MITSUBOSHI

# INDUSTRIAL POWER TRANSMISSION PRODUCTS
# CONVEYOR BELTS
# ENGINEERING PLASTIC








To give attentive consideration to both humanity and nature.

All sizes of Mitsuboshi Classical V-belts respectively meet the dimensional requirements as stated in DIN 2215/ISO 4184.

# Safety Precautions

## Please read all the warnings!

- **Please take all necessary precautions when using our products. Also, Please review relevant product catalog and design documents, etc.**
  **Significances of safety precautions are categorized as follows:**

| Signs | ⚠ Danger | ⚠ Warning | ⚠ Caution |
|---|---|---|---|
| Meanings | Imminently causing death or severe injury to the user who misuses products. | Possibly causing death or severe injury to the user who misuses products. | Possibly causing personal injury or property damage if misused. |

## Power Transmission Products

### Application

**⚠ Danger**

- If you expect that the system will run idle, run free, or stop due to break of the belt, please provide an extra safety device. Otherwise, you will be at high risk for death or serious injuries.
- Do not use a belt as a lifting or towing tool. Otherwise, you will be at high risk for death or serious injuries by fall or collision of lifted objects due to break of the belt.

**⚠ Warning**

- If you expect that static electricity will come from the power transmission belt system, set a neutralization apparatus in the system. Otherwise, you might die or suffer serious injuries by fire or malfunction of the controller due to such static electricity.

**⚠ Caution**

- Do not use a belt as an insulator. Otherwise, you might suffer injuries by an electric shock, etc. Contact us for information on insulation properties, which vary by belt type.
- For a belt that touches food directly, use one that complies with the applicable food hygiene law of your country. Use of belt which does not comply with the law, might cause health hazard due to transfer of toxic substances such as oil from the belt to foods, to the end customers who have had the foods.
- Do not modify a belt, or its quality and performance can deteriorate and you might suffer injuries.

### Function & Performance

**⚠ Caution**

- Do not use a belt beyond "its capacity" or outside "the scope of application" specified by the catalog and design documents, etc. Such use can cause premature failure of the belt, and you might suffer injuries.
- If water, oil, chemical, paint, dust, etc. sticks to a belt or pulley, its power transmission could deteriorate and the belt may fail earlier, and you might suffer injuries.
- A synchronous (toothed) belt may make louder noise during high-speed rotation. If this occurs, use a sound proof cover.

### Storage & Transportation

**⚠ Warning**

- To store a heavy belt, use a suitable jig or stopper to prevent accidents such as belt toppling or tumbling. If a heavy belt toppled or tumbled, you might die or suffer serious injuries by being caught between the belt and the floor.

**⚠ Caution**

- Use suitable equipment to carry/handle a heavy belt or pulley. Otherwise, you may suffer back injury.
- Do not put weight on or bend a belt forcibly to carry or store it. Otherwise, it will produce defects or scratches to the belt, resulting in damage, and you might suffer injuries.
- Store the belt in low humidity and within a temperature range of -10°C to 40°C. Do not expose belts to direct sunlight. Otherwise, you might have a difficulty in incorporating the belt appropriately into the intended portion due to its contraction or loosening.

### Mounting & Operation

**⚠ Danger**

- Install a safety cover over any rotating components including belt or pulley. Otherwise, your hair, gloves and clothing can become entangled in the belt or pulley and you will be at high risk for death or serious injuries. If a belt or pulley breaks, you will be at high risk for injuries by fragments.

**⚠ Caution**

- Make proper adjustment to system in accordance with the parallelism tolerance and degree of eccentricity specified in the relevant catalog etc. Misalignment of the pulleys can damage the belt and result in flange failure, and you might suffer injuries.
- Do not cut a belt while tension is applied, otherwise the belt may burst out and cause personal injury.
- Make sure the belt is properly set into the pulley groove before use. Improper application of a belt may cause its premature failure or personal injury.
- The belt and the pulley may be extremely hot after the operation. Allow them to cool down sufficiently before touch. Otherwise, you may get burned.
- Apply the appropriate belt tension as specified in the relevant catalog and design documents, etc. Inappropriate tension could result in damage of the belt and shaft.
- Take the following precautions to modify the pulley in use:
  1) Remove burrs and maintain proper pulley angle;
  2) Secure accurate dimensions after modification;
  3) Maintain the pulley strength after modification.
  Otherwise, such non-fulfillment could cause damage of the belt or pulley or you might suffer damages.
- Before assembling the flange with the pulley, make sure there is no foreign material between the pulley and the flange. Fasten the flange with a caulking tool. The flange may come off when it is not correctly installed.

### Maintenance, Checking & Replacement

**⚠ Danger**

- Take the following precautions to maintain, inspect and/or replace a belt. Otherwise, you will be at high risk for death or serious injuries by being entangled in the belt and/or pulley.
  1) Turn off power and wait until the belt and pulley have stopped completely.
  2) Secure machinery so that it may not move during belt removal.
  3) Make sure that the machine will not unintentionally be turned on during work.

**⚠ Caution**

- Use the same type of belts or pulleys as those originally used. Use of a different type may cause premature failure, and you might suffer injuries.
- Loosen the belt tension when changing belts. Do not force or stretch a belt over the flange. Do not use a screw driver or other sharp objects when replacing the belt as this might result in damage.
- For the multiple belt drive, always change all belts at the same time. Failure to do so may shorten the service lives of the belts or cause personal injury.

### Handling of Used items

**⚠ Warning**

- Do not burn belt within a closed space, or hazardous gas can be produced, and you might die or suffer serious injuries by toxicosis.

**⚠ Caution**

- Do not burn belt even in an airy place, or hazardous gas can be produced and you might suffer injuries by toxicosis.

## Plastic Conveyor Belts

### Application

**⚠ Danger**
- ●Do not use a belt as a lifting or towing tool. Otherwise, you will be at high risk for death or serious injuries by fall or collision of lifted objects due to break of the belt.

**⚠ Warning**
- ●To convey unpackaged food, use a belt that complies with the applicable food hygiene law of your country. Use of belt which does not comply with the law, might cause health hazard to the customers who have had the foods, due to contamination of foods by toxic substances.

### Function & Performance

**⚠ Caution**
- ●Do not use a belt beyond "its capacity" or outside "the scope of application" specified by the catalog, etc. Such use can cause premature failure of the belt, and you might suffer injuries.

### Storage & Transportation

**⚠ Warning**
- ●To store a large plastic conveyor belt, use a suitable tool or fixture to prevent accidents such as belt toppling or tumbling. If a large plastic conveyor belt toppled or tumbled, you might die or suffer serious injuries by being caught between the belt and the floor.

**⚠ Caution**
- ●Use suitable equipment to carry/handle large plastic conveyor belts. Otherwise, you may suffer back injury.
- ●Do not put weight on or bend a belt forcibly to carry or store it. Otherwise, it will damage the belt and result in system failure, and you might suffer injuries.

### Mounting & Operation

**⚠ Danger**
- ●Turn off power of the conveyor and related systems and wait until the whole systems have stopped completely before installing and/or inspecting the plastic conveyor belt. Otherwise, you will be at high risk for death or serious injuries by being entangled in the systems.
- ●Install a safety cover over any rotating components including belt or pulley. Otherwise, your hair, gloves and clothing can become entangled in the belt or pulley and you will be at high risk for death or serious injuries.

### Installation Works

**⚠ Warning**
- ●Solvent and adhesive for endless joint is flammable. No open flames are allowed during operation. Otherwise you might die or suffer serious injuries by fire.
- ●During endless joint, the work site should be well-ventilated. And solvent and adhesive for endless joint should be put in proper place after operation. Otherwise you might die or suffer serious injuries by toxicosis of volatiles.
- ●Do not put solvent and adhesive for endless joint on work site if installation of the belt and gas cutting or electric welding are done at the same time. Otherwise spark from gas cutting machine or electric welding machine ignite solvent and adhesive, and you might die or suffer serious injuries by fire.
- ●Belt is flammable product, so install a safety cover over belt and system during your operation of gas cutting or electric welding. If belt is exposed, spark from gas cutting machine or electric welding machine ignite the belt, and you might die or suffer serious injuries by fire.

## Engineering Plastic Products

### Application

**⚠ Warning**
- ●Do not use the product for medical purposes, such as transplantation or in such a way that it touches bodily fluids or tissues. Otherwise, you might die or suffer serious injuries.

### Storage & Transportation

**⚠ Warning**
- ●To store a heavy product, use a suitable jig or stopper to prevent accidents such as product toppling or tumbling. If a heavy product toppled or tumbled, you might die or suffer serious injuries by being caught between the product and the floor.
- ●Store products on a flat shelf or pallet that won't bend under product weight. A pile of products on an uneven place could slip, collapse or topple by gravity, and you might die or suffer serious injuries by being caught between the product and the floor.
- ●Do not rub products against insulators such as paper, cloth, and plastic. Otherwise static electricity may spark, and you might die or suffer serious injuries by fire or bungle.

**⚠ Caution**
- ●Do not burn product even in an airy place, or hazardous gas can be produced and you might suffer injuries by toxicosis.

### Cutting Work

**⚠ Caution**
- ●To prevent over heating, use air, cutting oil or a sharp cutting tool, and adjust its feed speed. Product may break up due to partial heat generated by forced processing, and you might suffer injuries. Pay special attention to bore processing which generates heat easily.
- ●Fix the product firmly, taking care not to deform materials. As the product is less elastic than metal, it could deform and come off the chuck, scattering materials, and you might suffer injuries if it doesn't fit properly on the processing machinery.

## Couplings

### Application

**⚠ Danger**
- ●If you expect that the system will run idle, run free, or stop due to break of the coupling, please provide an extra safety device. Otherwise, you will be at high risk for death or serious injuries.

### Function & Performance

**⚠ Caution**
- ●Do not use a belt beyond "its capacity" or outside "the scope of application" specified by the catalog and design documents, etc. Such use can cause premature failure of the coupling, and you might suffer injuries.

### Storage & Transportation

**⚠ Warning**
- ●To store a large coupling, use a suitable jig or stopper to prevent accidents such as coupling toppling or tumbling. If a large coupling toppled or tumbled, you might die or suffer serious injuries by being caught between the coupling and the floor.

**⚠ Caution**
- ●Use suitable equipment to carry/handle a large coupling. Otherwise, you may suffer back injury.

### Mounting & Operation

**⚠ Danger**
- ●Install a safety cover over any rotating components including the coupling. Otherwise, your hair, gloves and clothing can become entangled and you will be at high risk for death or serious injuries. If a coupling breaks, you will be at high risk for injuries by fragments.
- ●Install the coupling securely. Otherwise, you might get hit by the coupling and/or its fragments which might pop out and will be at high risk for death or serious injuries.
- ●Take the following precautions to maintain, inspect and/or replace coupling. Otherwise, you will be at high risk for death or serious injuries by being entangled.
  1) Turn off power and wait until the machine have stopped completely. 2) Secure machinery so that it may not move during coupling removal.
  3) Make sure that the machine will not unintentionally be turned on during work.
- ●After installation of the coupling, make sure the bolts and/or tools are not left on machine before starting the machine. Otherwise, you might get hit by the bolts or tools which might pop out and will be at high risk for death or serious injuries.

**⚠ Caution**
- ●Use the same type of couplings as those originally used. Use of a different type of coupling may cause premature failure, and you might suffer injuries.
- ●Make proper adjustment to system in accordance with the parallelism tolerance and degree of eccentricity specified in the relevant catalog etc. Misalignment may cause premature failure or displacing, and you might suffer injuries.

### Handling of Used items

**⚠ Warning**
- ●Do not burn coupling within a closed space, or hazardous gas can be produced, and you might die or suffer serious injuries by toxicosis.

**⚠ Caution**
- ●Do not burn coupling even in an airy place, or hazardous gas can be produced and you might suffer injuries by toxicosis.

# I N D E X

## CONTENTS

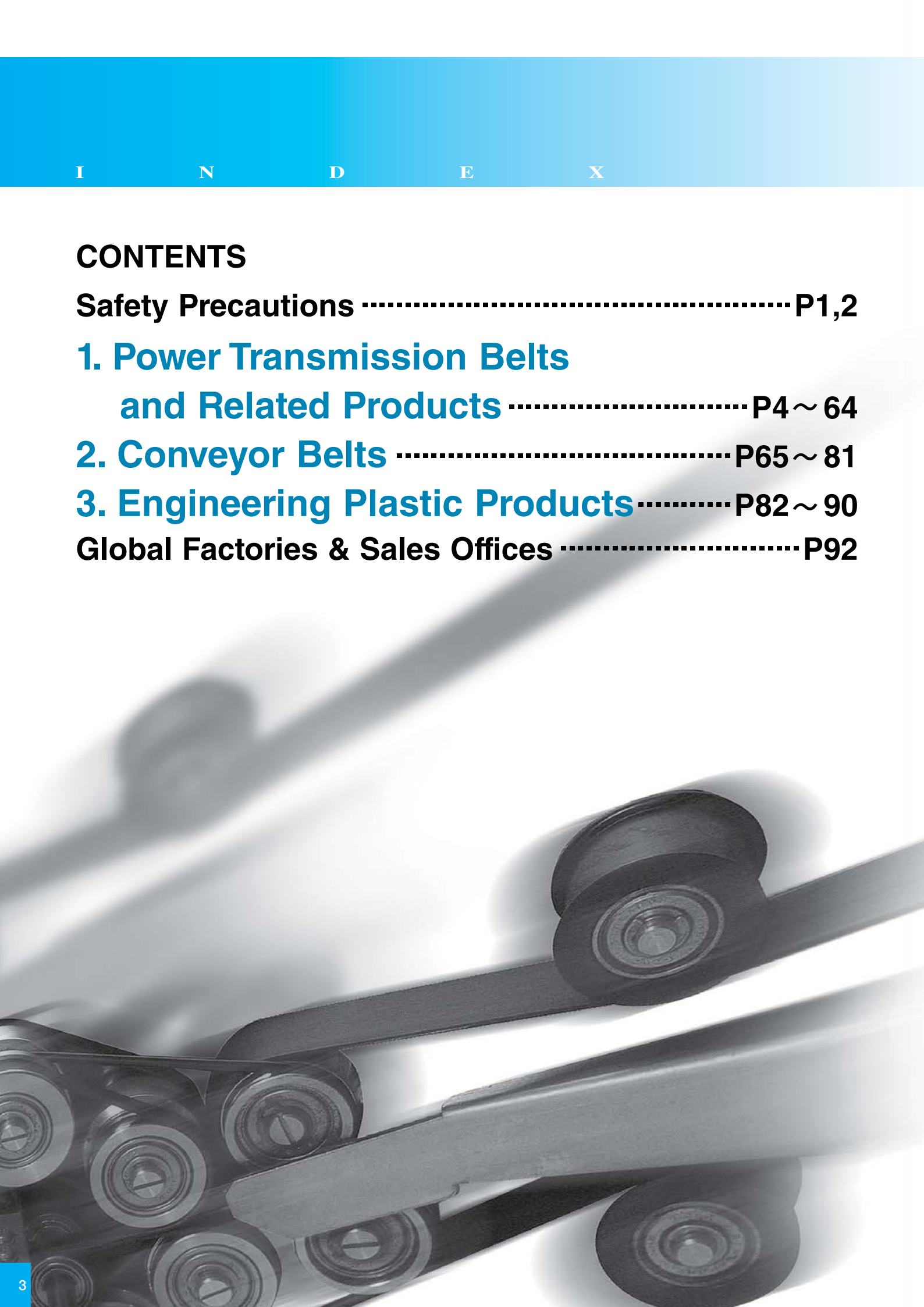

Safety Precautions ..... P1,2

1. Power Transmission Belts and Related Products ..... P4～64

2. Conveyor Belts ..... P65～81

3. Engineering Plastic Products ..... P82～90

Global Factories & Sales Offices ..... P92

# 1. Power Transmission Belts and Related Products


Application Examples ····· P5, 6
Lineup of Belts and Related Products ····· P7, 8
Industrial Power Transmission Product Selection Chart ····· P9,10


## Ⅰ Synchronous Power Transmission


Round Tooth Timing Belt
Belt Type, Dimensions & Product Code ····· P12
SUPER TORQUE G&U ····· P13～17
SUPER TORQUE Timing Pulley ····· P18
MEGA TORQUE G&U ····· P19,20
MEGA TORQUE GⅡ/GⅡP ····· P21
MEGA TORQUE EX ····· P22
GigaTorque GX ····· P23
H Series ····· P24
Trapezoidal Tooth Timing Belt
Belt Type, Dimensions & Product Code ····· P25
Timing Belt G (Rubber) ····· P26～28
Timing Belt U (Polyurethane) ····· P29～31
Long-span Timing Belt ····· P32
Timing Pulley ····· P33, 34


## Ⅱ Frictional Forced Power Transmission


Classical V-belts
Wrapped Type/Raw Edge Cogged Type ····· P36～39
MAXSTAR WEDGE V-belts
Wrapped Type/Raw Edge Cogged Type ····· P40
SUPER WEDGE Ⅱ ····· P41
Narrow V-belts
Wrapped Type/Raw Edge Cogged Type ····· P42
MAXSTAR POWER Narrow ····· P43
SUPER VS (Variable Speed Belt) ····· P44
MAXSTAR WEDGE Pulley ····· P45, 46
RIBSTAR G (Rubber V-ribbed Belt) ····· P47
RIBSTAR U (Polyurethane V-ribbed Belt) ····· P48
RIBSTAR Pulley (V-ribbed Pulley) ····· P49
FLEXSTAR Belt ····· P50
FLEXSTAR Belt J ····· P51
POLYMAX ····· P52
MB Belt ····· P53
STARROPE/SUPER STARROPE
Plain V-rope/Plain Hexagonal-rope ····· P54


## Ⅲ Direct Connected Power Transmission


HYPERFLEX Coupling ····· P57
TSCHAN® Coupling Nor-Mex® ····· P58, 59
TSCHAN® Coupling S ····· P60

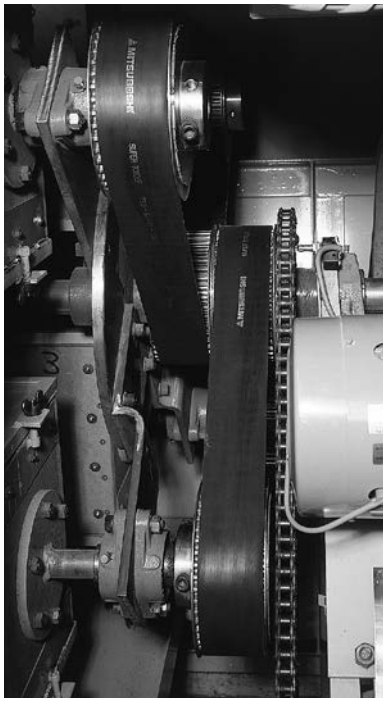

## Ⅳ Troubleshooting for Power Transmission Products


For Timing Belt ····· P62
For V-belt ····· P63



※ "TSCHAN" and "Nor-Mex" are registered trademarks of RINGFEDER POWER TRANSMISSION TSCHAN GMBH.

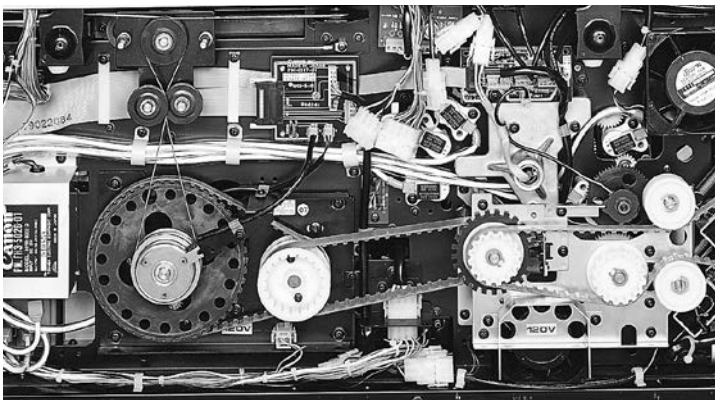
Application Example



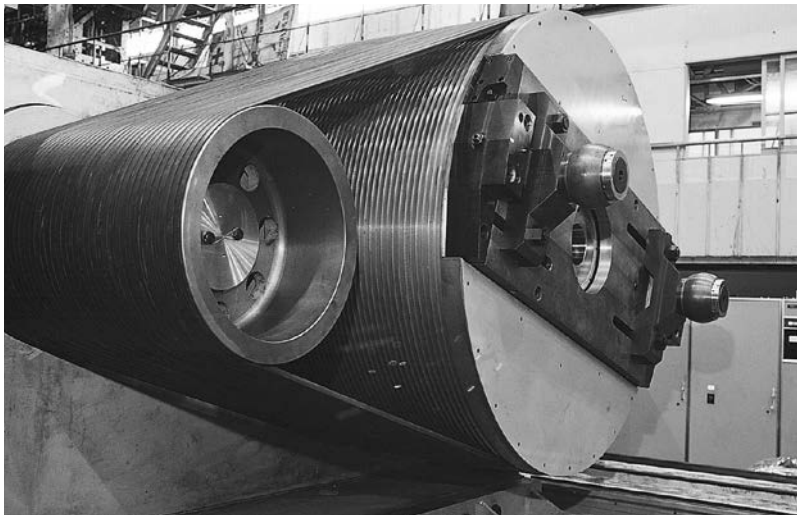
Polisher (SUPER TORQUE)



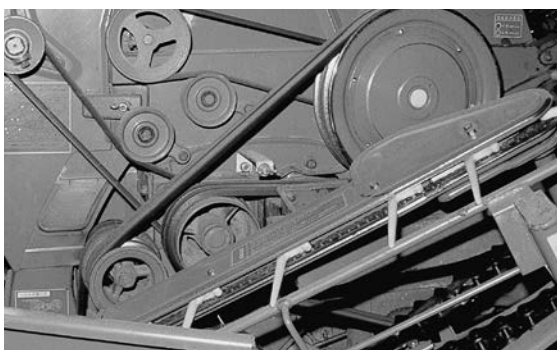
Large Knitting Machine (SUPER TORQUE)



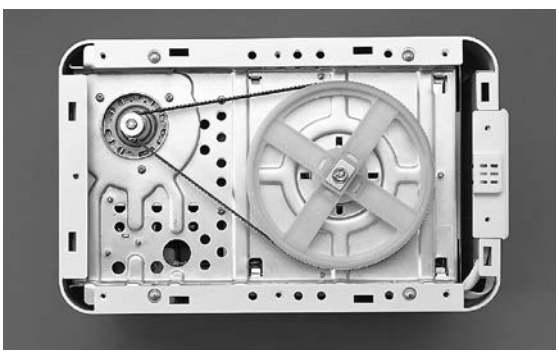
Copier (Polyurethnane Timing Belt)



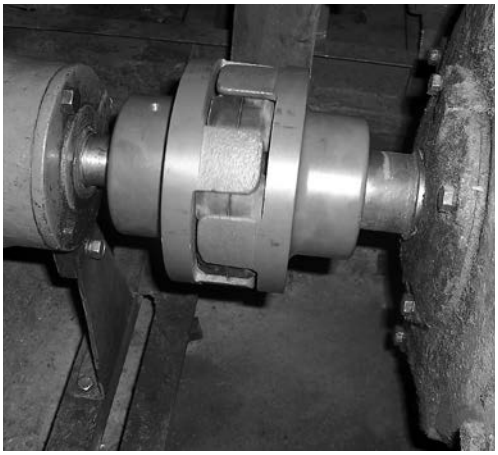
Heavy Duty Polisher (MAXSTAR WEDGE V-belt)



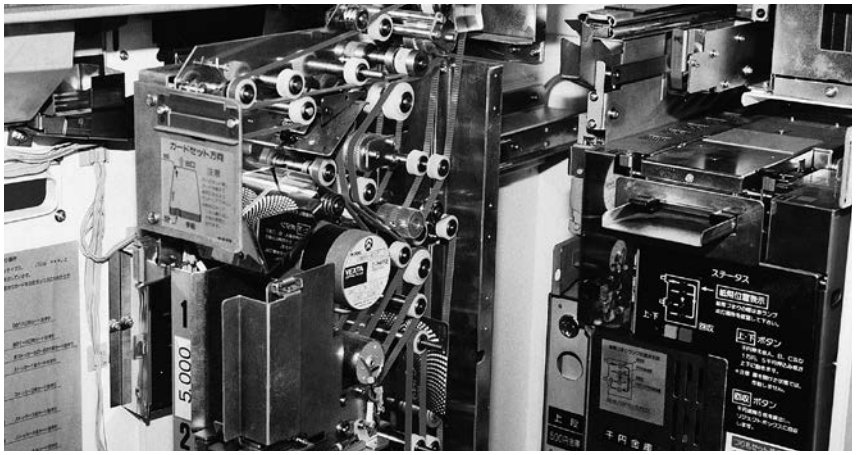
Combine (V-belt for Agricultural Machines)



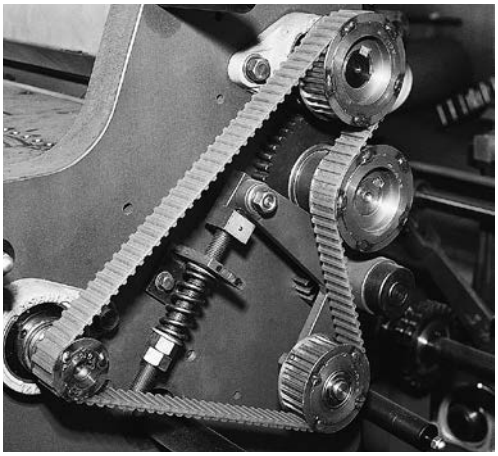
Food Processor (RIBSTAR)



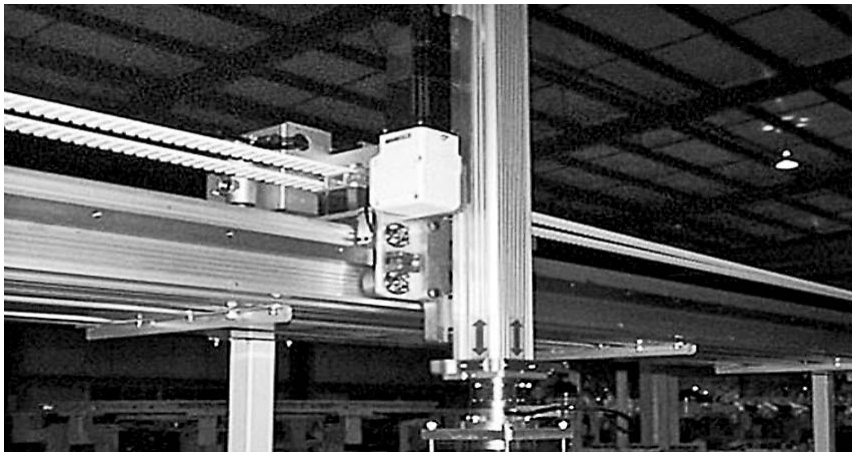
Generator (HYPERFLEX Coupling)



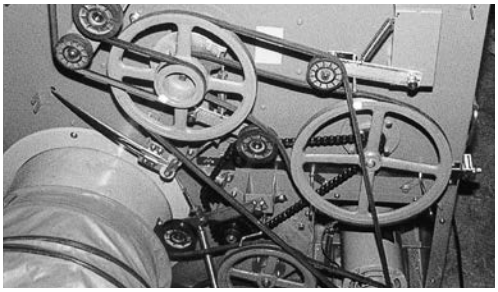
Plastic Card Vender (Polyurethane Timing Belt)



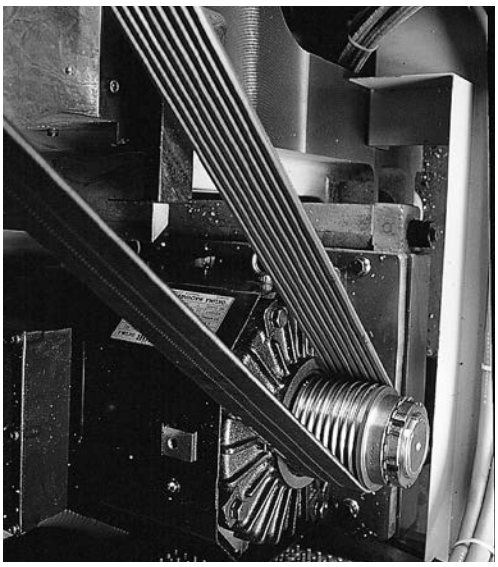
Packaging Machine (Polyurethane Double Timing Belt)



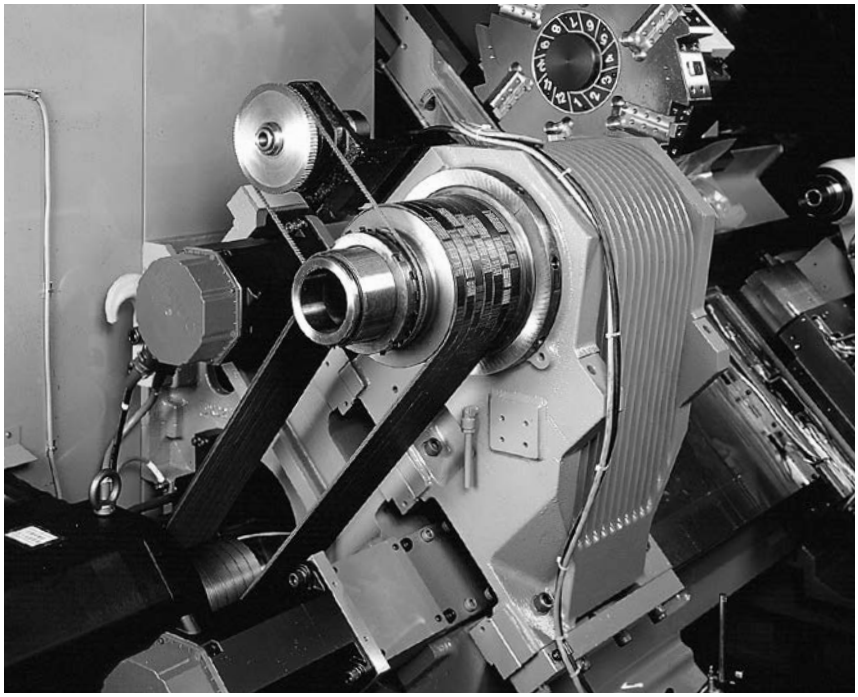
Large Industrial Robot (FREESPAN™ Belt)



Dryer (V-belt)



NC Lathe (Multi-POLYMAX)



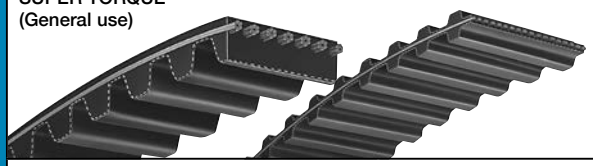
NC Lathe (RIBSTAR)

*To show the application examples clearly, safety covers are removed in the pictures on this page.
Always put on the safety covers when in use.

## Timing Belt

### Product Name & Application

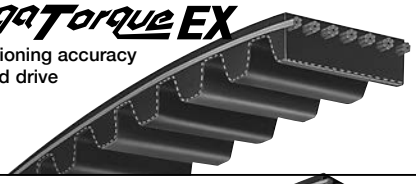
SUPER TORQUE
(General use)



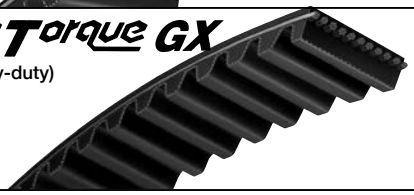
MegaTorque G
MegaTorque GII/GII P
MegaTorque U
(Heavy-duty use)



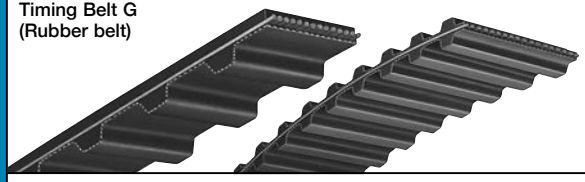
MegaTorque EX
High positioning accuracy
High speed drive



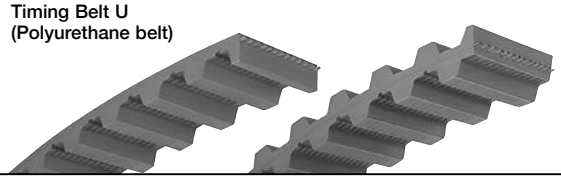
GigaTorque GX
(Ultra Heavy-duty)



Timing Belt G
(Rubber belt)



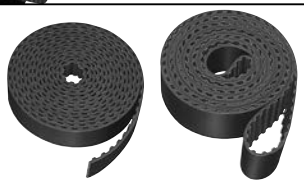
Timing Belt U
(Polyurethane belt)



Rubber Timing Belt
H-Series

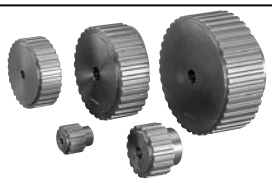


Long-span Timing Belt
(Endless & Open-End)



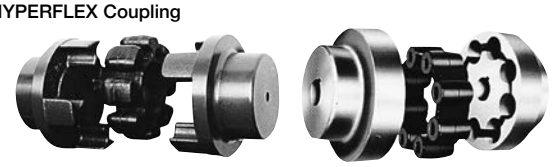
## Timing Pulley

Timing Pulley



## Coupling

HYPERFLEX Coupling



TSCHAN® Coupling S and Coupling Nor-Mex®



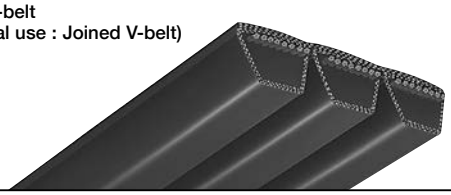
## Wrapped Belt

### Product Name & Application

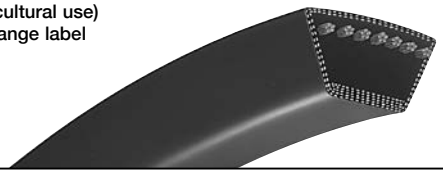
Classical V-belt
(General use)



Multi V-belt
(General use : Joined V-belt)



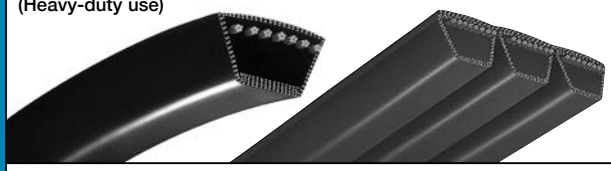
Strong & Thin Wrapped V-belt
(Agricultural use)
Orange label



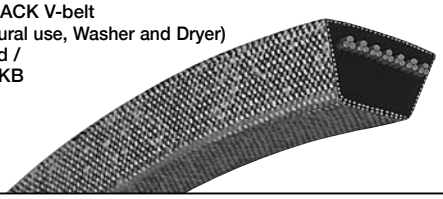
SUPER AG-X
Heavy-duty agricultural use



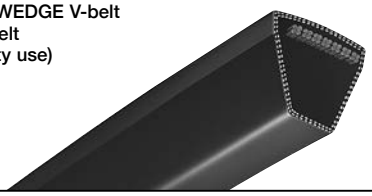
MAXSTAR POWER Series
(Heavy-duty use)



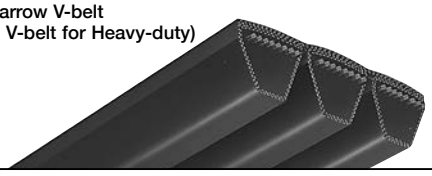
BARE-BACK V-belt
(Agricultural use, Washer and Dryer)
Standard /
SUPER KB



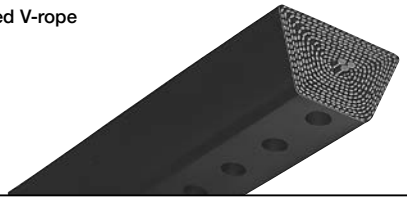
MAXSTAR WEDGE V-belt
Narrow V-belt
(Heavy-duty use)



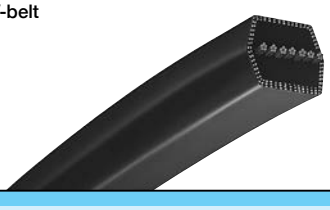
Multi MAXSTAR WEDGE V-belt, SUPER WEDGE Ⅱ
Multi Narrow V-belt
(Joined V-belt for Heavy-duty)



Perforated V-rope



Hexagonal V-belt



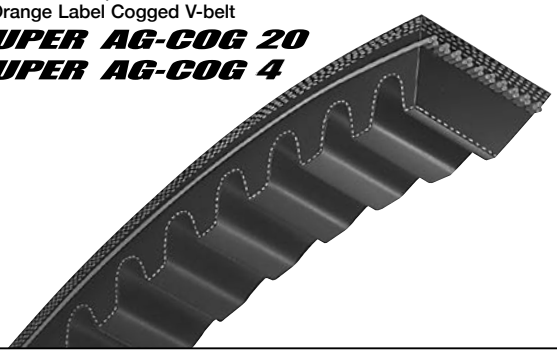
※ "TSCHAN" and "Nor-Mex" are registered trademarks of RINGFEDER POWER TRANSMISSION TSCHAN GMBH.

## Raw Edge Belt

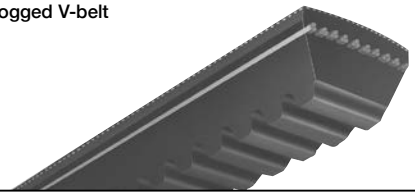
### Product Name & Application

Raw Edge Cogged V-belt
(Agricultural use)
Orange Label Cogged V-belt

**SUPER AG-COG 20**
**SUPER AG-COG 4**



Raw Edge Cogged V-belt
TRIPLEX

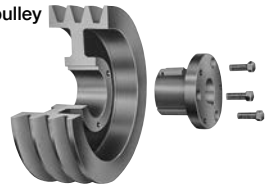


SUPER VS
(Variable Speed Belt)



## Pulley & Bushing

MAXSTAR WEDGE pulley
MB Bushing

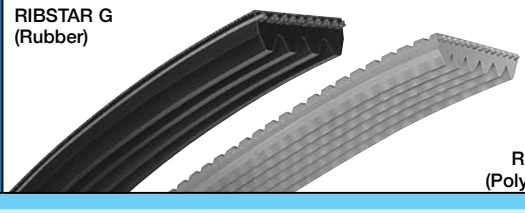


RIBSTAR Pulley
RIBSTAR Bushing



## V-ribbed Belt

RIBSTAR G
(Rubber)

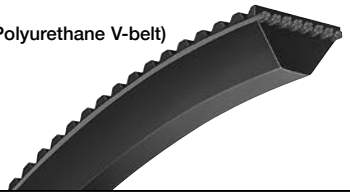


RIBSTAR U
(Polyurethane)

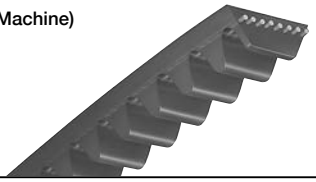
## Polyurethane Belt

### Product Name & Application

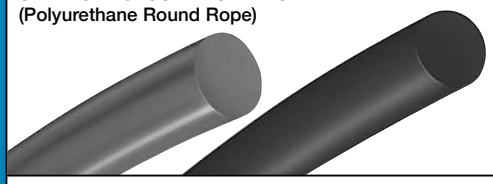
POLYMAX
(Wide-angle Polyurethane V-belt)



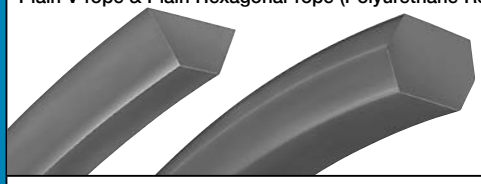
MB Belt
(For Sewing Machine)



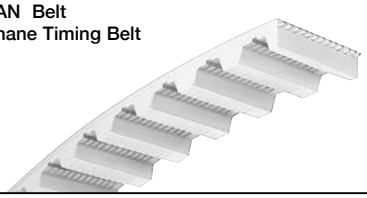
STARROPE & SUPER STARROPE
(Polyurethane Round Rope)



Plain V-rope & Plain Hexagonal-rope (Polyurethane Rope)



FREESPAN Belt
Polyurethane Timing Belt



## Flat Belt

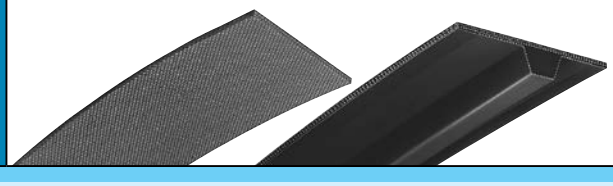
FLEXSTAR



FLEXSTAR Belt J
for Light-duty power transmission/ conveyance



Flat Belt for general use and lifter



# Industrial Power Transmission Product Selection Chart

How much slip can you allow? / How do you want to use it? / What features do you need?

| Slip Tolerance | Drive Classification | | Applications | Type of Belt / Pulley: Material | Type of Belt / Pulley: Tooth Shape or Form | | Features | Mitsuboshi Products Lineup for Power Transmission Belts: Product Name | No | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| No slip allowed | Synchronous Power Transmission | Timing Belt | Office & Home appliances | Rubber | Round tooth | | High power transmission, heat resistance, water resistance, flex fatigue resistance | SUPER TORQUE G | 1 | S2M·S3M·S5M |
| | | | General use (for motor drive) | | | | | SUPER TORQUE G | 2 | S8M·S14M |
| | | | General use | | | | Multi-pulley, double-sided drive | SUPER TORQUE G Double Teeth | 3 | DS3M·DS5M·DS8M·DS14M |
| | | | | | | | Long-span drive | SUPER TORQUE G (Long-span Open-End Type) | 4 | S2M·S3M·S5M·S8M·S14M |
| | | | | | | | Synchronous transportation | SUPER TORQUE G (Long-span Endless Type) | 5 | S8M·S14M |
| | | | | | | | Low-speed, high-torque use | MEGA TORQUE G | 6 | MTS5M·MTS8M·MTS14M |
| | | | | | | | High torque use | MEGA TORQUE G II | 7 | MTS8M, MTS14M |
| | | | | | | | High precision positioning | MEGA TORQUE EX | 8 | MTS3M, MTS5M |
| | | | | | | | High power transmission, heat, water and flex fatigue resistance | H Series Timing Belt | 9 | H8M, H14M |
| | | | | | | | Heavy duty power transmission | Giga Torque GX | 10 | G8M, G14M |
| | | | | | Trapezoidal tooth | | Synchronous Power transmission | Timing Belt G | 11 | MXL·XL·L·H·XH·XXH |
| | | | | | | | Multi-pulley, double-sided drive | Timing Belt G Double Teeth | 12 | DMXL·DXL·DL·DH |
| | | | | | | | Long-span drive | Timing Belt G (Long-span Open-End Type) | 13 | MXL·XL·L·H |
| | | | | | | | Synchronous transportation | Timing Belt G (Long-span Endless Type) | 14 | L·H·XH·XXH |
| | | | Office & Home appliances | Thermo-setting polyurethane | Round tooth | | Clean drive | SUPER TORQUE U | 15 | S2M·S3M |
| | | | General use | | | | Long-span drive | SUPER TORQUE U (Long-span Open-End Type) | 16 | S2M·S3M |
| | | | | | | | Low-speed, high-torque use | MEGA TORQUE U | 17 | MTS8M |
| | | | Printer | | Trapezoidal tooth | | Accurate positioning | Timing Belt U | 18 | T80 |
| | | | Home appliances | | | | Accurate positioning | Timing Belt U | 19 | T5·T10·AT5·AT10·XL·L |
| | | | | | | | Multi-pulley, double-sided drive | Timing Belt U Double Teeth | 20 | DT5·DT10 |
| | | | General use | | | | Long-span drive | Timing Belt U (Long-span Open-End Type) | 21 | T80·XL·L·T5·T10 |
| | | | | Thermo-plastic polyurethane | Round tooth | | Long-span drive, Synchronous transportation | FREESPAN Belt | 22 | HTD5M·HTD8M·HTD14M |
| | | | | | Trapezoidal tooth | | | | 23 | T5·T10·AT5·AT10·L·H |
| Some slip is allowed. Note: Take slip ratio as approx. 1% | Friction Forced Transmission | V-belt | Office & Home appliances, General use (based on ISO standard) | Rubber | Wrapped | Less thickness | Light-duty use, compact design | SUPER KB | 24 | 3LK·4LK·5LK |
| | | | | | | Standard | General use | Classical V-belt | 25 | Z·A·B·C·D·E |
| | | | | | | Narrow width | Heavy-duty use, compact design | MAXSTAR WEDGE V-belt | 26 | 3V·5V·8V |
| | | | | | | | Anti-vibration | Multi MAXSTAR WEDGE | 27 | R3V·R5V·R8V |
| | | | | | | | Shock-load resistance | SUPER WEDGE II | 28 | 5VK·8VK |
| | | | | | | | | Narrow V-belt | 29 | SPZ·SPA·SPB·SPC |
| | | | Agricultural use | | | Less thickness | Heat resistance, flex resistance | Orange label | 30 | LA·LB·LC |
| | | | | | | | Heat resistance, flex resistance | Gold label | 31 | |
| | | | | | | | Heat resistance, flex resistance, anti-vibration | SUPER AG-X | 32 | |
| | | | | | | Standard | | MAXSTAR POWER | 33 | A/HA·B/HB·HB·HBK |
| | | | | | | Narrow width | | MAXSTAR POWER Narrow | 34 | SPZ·SPA·SPB·SPC |
| | | | | | Raw Edge Cogged | Less thickness | High power transmission | Orange Label Cogged V-belt | 35 | LA·LB·LC |
| | | | | | | | Low contraction | SUPER AG-COG 4 | 36 | |
| | | | | | | | | SUPER AG-COG 20 | 37 | |
| | | | General use | | | Standard | High power transmission | TRIPLEX | 38 | AX·BX·CX |
| | | | | | | | | Multi TRIPLEX | 39 | RAX·RBX·RCX |
| | | | | | | Narrow width | | MAXSTAR WEDGE SUPREME | 40 | 3VX·5VX |
| | | | | | | | | Multi MAXSTAR WEDGE SUPREME | 41 | R3VX·R5VX |
| | | | | | | | | Narrow Cogged V-belt | 42 | SPZX·SPAX·SPBX·SPCX |
| | | | Home appliances | | Wrapped | Standard | Rubber dust free, belt clutch | Bare-back V-belt | 43 | M·A·B·C |
| | | | Heavy-duty agricultural use | | | Variable speed | High power transmission | AGVS | 44 | HL·HM |
| | | | Home appliances, Agricultural use, General use | Thermo-setting polyurethane | Wide-angle | | High-speed revolution, compact design | POLYMAX | 45 | 3M·5M·7M·11M |
| | | | | | | | High-speed revolution, anti-vibration | Multi POLYMAX | 46 | R5M·R7M·R11M |
| | | | | | Cogged type | | Light-duty, clean drive | MB Belt | 47 | MB |
| | | Flat Belt | General use | Rubber | Cord core flat type | | High-speed drive, compact design | FLEXSTAR Belt | 48 | FL·FM·FH·FLEG·FLG·FLE·FMG·FHG |
| | | Thin Flat Belt | ATM, Ticket vending machine | - | Cord core flat | | Good driving stability, compact design, maintenance-free | FLEXSTAR Belt J | 49 | J8GC1, J8GC2, J8GC5 |
| | | | | Rubber | | | | | 50 | J8GA, J8GE, J8GD, J3H, J3HB, J6H, J6HB, J8H, J8HB |
| | | | | | Laminated flat type | | | | 51 | JL, JL3, JLB |
| | | | | Millable Polyurethane | No cord and canvas flat type | | | | 52 | JN |
| | | | | | | | | | 53 | JLU5, JLU6-N, JLU6-D |
| | | V-Ribbed Belt | Office & Home appliance, General use | Rubber | V-ribbed | | Flex resistance, high power transmission, high-speed revolution | RIBSTAR G (Bare-back type) | 54 | HB |
| | | | | | | | | RIBSTAR G | 55 | J·PK·L |
| | | | Office & Home appliance, General use | Polyurethane | | | Flex resistance, high-speed revolution | RIBSTAR U | 56 | HB·JT·JBT·J |
| | | Round Belt (Square Belt) | General industries, Agricultural machinery | Rubber | Hexagonal | | Multi-pulley, double-sided drive | HEXAGONAL V-belt | 57 | AA·BB·CC |
| | | | | | Standard perforated V rope | | Adjustable belt length | Perforated V-belt | 58 | M·A·B·C |
| | | | General industries | Polyurethane | Round rope | | Light-duty use | STARROPE | 59 | Φ2～Φ10·Φ12·Φ15 |
| | | | | | | | | SUPER STARROPE | 60 | Φ2～Φ10·Φ12·Φ15 |
| | | | | | V rope | | Adjustable belt length , processed joint | Plain V-rope | 61 | M·A·B |
| | | | | | Hexagonal rope | | | Plain Hexagonal-rope | 62 | AA·BB |
| Direct Connected Power Transmission | Direct Connected Power Transmission | Coupling | General use, Office & Home appliance, Agricultural use | Steel | Flexible, Direct Connected Power Transmission | | Shock absorption, anti-vibration | NOR-MEX® | 63 | G·FG·LG·E·FE·LE |
| | | | | Aluminum | | | | S | 64 | S·SV·SX·SZ |
| | | | | Cast Iron | | | | HYPERFLEX Coupling | 65 | MT·MH |

## Selecting Power Transmission Belts and Related Products

A wide range of products are available at Mitsuboshi to suit your needs.
Refer to the following property chart when selecting belts.

Excellent ●
Good No Sign
Caution needed when in use ▲
Not suitable –

| | Application Properties | | | | | | | | | | | | | Environmental Properties | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No | High power-transmission | Compact-design | Flexibility | High-Speed drive | Multi-Pulley | Joint processing | Smooth operation | Continuous speed change | Back side drive | Back side tensioner | Misalignment | Frequent start & stop | | Heat resistance | Cold resistance | Water resistance | Oil resistance | Acid resistance | Alkali resistance | Ozone resistance | Weather resistance | Noise | Vibration | No |
| 1 | ● | ● | ● | ● | | – | ● | | | | ▲ | | | | | | | | | | | | | | 1 |
| 2 | ● | ● | ● | ● | | – | ● | | | | ▲ | | | | | | | | | | | | | | 2 |
| 3 | | ● | ● | ● | ● | – | | | ● | | ▲ | | | | | | | | | | | | | | 3 |
| 4 | | ● | ● | | | – | | | | | ▲ | | | | | | | | | | | | | | 4 |
| 5 | | ● | ● | | | | | | | | ▲ | | | | | | | | | | | | | | 5 |
| 6 | ● | ● | ● | | | – | | | | | ▲ | | | ● | ● | | | | | | ● | | | | 6 |
| 7 | ● | ● | ● | | | | ● | – | | | ▲ | | | ● | ● | | | | | | ● | | | | 7 |
| 8 | ● | ● | ● | ● | | – | ● | – | | | ▲ | | | | | | | | | | | | | | 8 |
| 9 | ● | ● | ● | | | – | ● | – | | | ▲ | | | | | | | | | | | | | | 9 |
| 10 | ● | ● | ● | ● | | – | ● | – | ▲ | ▲ | ▲ | | | ● | ● | | | | | | ● | | | | 10 |
| 11 | ● | ● | ● | ● | | – | | | | | ▲ | | | | | | | | | | | | | | 11 |
| 12 | | ● | ● | | ● | – | | | ● | | ▲ | | | | | | | | | | | | | | 12 |
| 13 | | ● | ● | | | – | | | | | ▲ | | | | | | | | | | | | | | 13 |
| 14 | | ● | ● | | | | | | | | ▲ | | | | | | | | | | | | | | 14 |
| 15 | | ● | ● | ● | | – | ● | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 15 |
| 16 | | ● | ● | | | | | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 16 |
| 17 | ● | ● | ● | | | – | | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 17 |
| 18 | | ● | ● | | | – | ● | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 18 |
| 19 | | ● | ● | | | – | | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 19 |
| 20 | | ● | ● | | ● | – | | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 20 |
| 21 | | ● | ● | | | ● | | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 21 |
| 22 | | ● | ● | | | ● | | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 22 |
| 23 | | ● | ● | | | ● | | | | | ▲ | | | ▲ | | | ● | ▲ | ▲ | | | | | | 23 |
| 24 | | | | | | – | | | | ● | | | | | | | | | | | | | | | 24 |
| 25 | ● | | | | | – | | | | | | ● | | | | | | | | | | | | | 25 |
| 26 | ● | ● | | ● | | – | | | | | | ● | | ● | | | | | | | | | | | 26 |
| 27 | ● | ● | | | | – | | – | | | | ● | | ● | | | | | | | | | ● | | 27 |
| 28 | ● | ● | | | | – | | – | | | | ● | | ● | | | | | | | | ● | | | 28 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | 29 |
| 30 | | | ● | | | – | | | | ● | ● | ● | | ● | | | | | | | | | | | 30 |
| 31 | ● | | ● | | | – | | | | ● | ● | ● | | ● | | | | | | | | | | | 31 |
| 32 | ● | ● | ● | | | – | | | | ● | ● | ● | | ● | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | | | | | | | | | | | | | 33 |
| 34 | | | | | | | | | | | | | | | | | | | | | | | | | 34 |
| 35 | ● | ● | ● | | | – | | | | | ● | ● | | ● | | | | | | | | | | | 35 |
| 36 | ● | ● | ● | | | – | | | | ● | ● | ● | | ● | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | | | | | | | | | | | | | 37 |
| 38 | ● | ● | ● | | | – | | | | ● | ● | ● | | | | | | | | | | | | | 38 |
| 39 | ● | ● | ● | | | – | | – | | | | ● | | | | | | | | | | | ● | | 39 |
| 40 | ● | ● | | ● | | – | | | | | | ● | | ● | | | | | | | | | | | 40 |
| 41 | ● | ● | | ● | | – | | – | | | | ● | | ● | | | | | | | | | ● | | 41 |
| 42 | | | | | | | | | | | | | | | | | | | | | | | | | 42 |
| 43 | ▲ | | | | | – | | | | | | ● | | | | | | | | | | ● | | | 43 |
| 44 | ● | | | | | – | | ● | | | | ● | | | | | | | | | | | | | 44 |
| 45 | | ● | | ● | | – | | – | – | – | | ▲ | | ▲ | | | | ▲ | ▲ | | | | | | 45 |
| 46 | | ● | | ● | | – | | – | – | – | | | | ▲ | | | | ▲ | ▲ | | | | ● | | 46 |
| 47 | ▲ | | | | | – | | – | | | | | | ▲ | | | | ▲ | ▲ | | | | | | 47 |
| 48 | | | ● | ● | ● | – | ● | – | | | | | | | | | | | | | | ● | | | 48 |
| 49 | | | ● | ● | ● | – | ● | – | | | | | | | | | ● | | | | | ● | | | 49 |
| 50 | | | ● | ● | ● | – | ● | – | | | | | | | | | ● | | | | | ● | | | 50 |
| 51 | | | ● | ● | ● | – | ● | – | | | | | | | | | ● | | | | | ● | | | 51 |
| 52 | | | ● | | ● | – | ● | – | | | | | | | | | ● | | | | | ● | | | 52 |
| 53 | | | ● | | ● | – | ● | – | | | | | | | | | ● | | | | | ● | | | 53 |
| 54 | | | ● | ● | ● | – | ● | – | | ● | | | | | | | | | | | | ● | | | 54 |
| 55 | ● | | ● | ● | ● | – | ● | – | | ● | | | | | | | | | | | | ● | | | 55 |
| 56 | | | ● | | | – | ● | – | | | | | | ▲ | | | ● | | | | | ● | | | 56 |
| 57 | | | | | | – | | – | | | | | | | | | | | | | | | | | 57 |
| 58 | ▲ | | | | | ● | | – | | | | | | | | | | | | | | | | | 58 |
| 59 | ▲ | | | | ● | ● | | – | ● | ● | ● | ▲ | | ▲ | | ▲ | | ▲ | ▲ | | | | | | 59 |
| 60 | ▲ | | | | ● | ● | | – | ● | ● | ● | ▲ | | ▲ | | ▲ | | ▲ | ▲ | | | | | | 60 |
| 61 | ▲ | | | | ● | ● | | – | | | | ▲ | | ▲ | | ▲ | | ▲ | ▲ | | | | | | 61 |
| 62 | ▲ | | | | ● | ● | | – | ● | ● | | ▲ | | ▲ | | ▲ | | ▲ | ▲ | | | | | | 62 |
| 63 | ● | ● | | ● | – | – | ● | – | – | – | ● | | | | | | | | | | | ● | ● | | 63 |
| 64 | ● | ● | | ● | – | – | ● | – | – | – | ● | | | | | | | | | | | ● | ● | | 64 |
| 65 | | ● | | ● | – | – | ● | – | – | – | ● | | | | | | | | | | | ● | ● | | 65 |

# I Synchronous Power Transmission


## Round Tooth Timing Belt

Belt Type, Dimensions & Product Code ..... P12

SUPER TORQUE G&U ..... P13～17

SUPER TORQUE Timing Pulley ..... P18

MEGA TORQUE G&U ..... P19,20

MEGA TORQUE GⅡ/GⅡP ..... P21

MEGA TORQUE EX ..... P22

Giga Torque GX ..... P23

H Series Timing Belt ..... P24

## Trapezoidal Tooth Timing Belt

Belt Type, Dimensions & Product Code ..... P25

Timing Belt G ..... P26～28

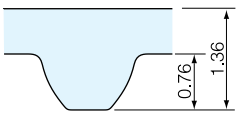
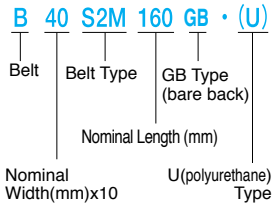
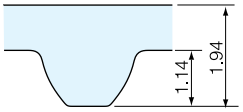
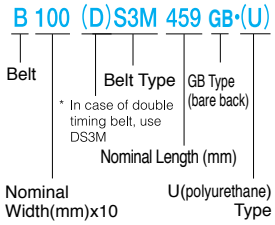
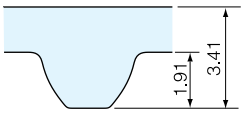
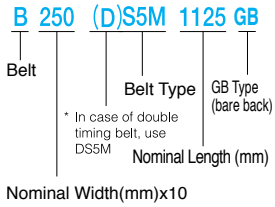
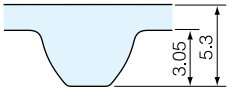
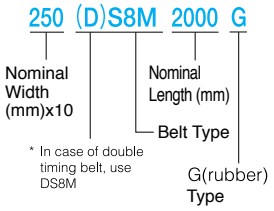
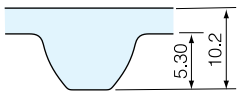
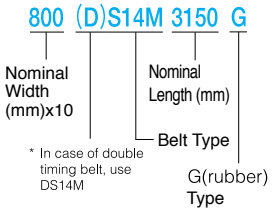
Timing Belt U ..... P29～31

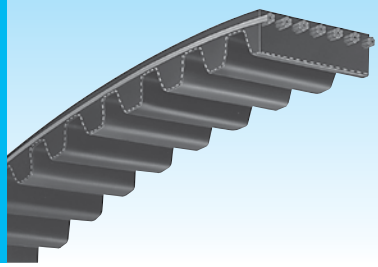
## Long-Span Timing Belt ..... P32

## Timing Pulley ..... P33, 34

# Round Tooth Timing Belt

## Belt Type, Dimensions & Product Code

| Belt Type | Standard Dimensions | Standard Width Code | Standard Width Width | Product Code | Applications |
|---|---|---|---|---|---|
| **S2M** |  Belt Tooth Pitch 2mm | 40<br>60<br>100 | 4mm<br>6mm<br>10mm |  | ● **OA Equipment**<br>Copier<br>Facsimile<br>Printer<br>Typewriter<br>Wordprocessor<br>Computer terminal<br>Cash register<br>X-Y plotter<br>● **Automated Vending Machine**<br>Ticketing machine<br>Ticket gate<br>Bank teller<br>Notes counter<br>Money changing machine |
| **S3M** |  Belt Tooth Pitch 3mm | 60<br>100<br>150 | 6mm<br>10mm<br>15mm |  | ● **Electronic Applications**<br>Computer<br>VTR<br>Fish sonar finder<br>Flaw-detecting machine<br>Depth finder<br>Robot<br>● **Instrumentation**<br>Rotary machine<br>Recorder<br>Oscillograph<br>Data processing system<br>Various test machines |
| **S5M** |  Belt Tooth Pitch 5mm | 100<br>150<br>250 | 10mm<br>15mm<br>25mm |  | ● **Electrical Appliances**<br>Blender<br>Mixer<br>Sewing machine<br>Vacuum cleaner<br>Electrical tools<br>● **Others**<br>Toy<br>Medical systems<br>Health equipment |
| **S8M** |  Belt Tooth Pitch 8mm | 150<br>250<br>300<br>400<br>600 | 15mm<br>25mm<br>30mm<br>40mm<br>60mm |  | ● **Woodworking machinery**<br>● **Textile machinery**<br>Textile spinning machine<br>Yarn twisting machine<br>● **Paper making machinery**<br>Mixer<br>Dryer<br>Calender<br>● **Fan/ Blower**<br>● **Machine tools**<br>Drilling machine, lathe<br>Screw cutting machine<br>Boring machine<br>Grinding machine<br>Milling machine<br>NC lathe<br>● **Printer** |
| **S14M** |  Belt Tooth Pitch 14mm | 400<br>600<br>800<br>1000<br>1200 | 40mm<br>60mm<br>80mm<br>100mm<br>120mm |  | ● **Blower**<br>● **Screen**<br>● **Mill**<br>Hammer<br>Ball<br>Rod<br>Pebble<br>● **Paper making machinery**<br>Mixer<br>Dryer<br>Calender |



# SUPER TORQUE G&U

Since this curvilinear tooth belt has a high power transmission capacity, it expands the use of timing belts significantly to various industries.

- Higher power transmission / usable for wide range of applications
- Smooth meshing allows noiseless operation
- Usable with low shaft load
- Longer operating life
- Cost-Efficient

## Standard Belt Sizes

| Belt Type | S2M |
|---|---|
| Tooth Pitch | 2.0(mm) |
| Code(width) | 40(4mm) 60(6mm) 100(10mm) |

Size

| Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB | Manufacturable Size U | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB | Manufacturable Size U |
|---|---|---|---|---|---|---|---|---|---|
| S2M 66 | 33 | 66 | S | | S2M 324 | 162 | 324 | S | |
| S2M 72 | 36 | 72 | S | | S2M 326 | 163 | 326 | S | |
| S2M 74 | 37 | 74 | S | | S2M 328 | 164 | 328 | S | |
| S2M 76 | 38 | 76 | S | | S2M 330 | 165 | 330 | S | S |
| S2M 78 | 39 | 78 | S | | S2M 334 | 167 | 334 | S | |
| S2M 80 | 40 | 80 | S | S | S2M 338 | 169 | 338 | S | |
| S2M 84 | 42 | 84 | S | | S2M 340 | 170 | 340 | S | |
| S2M 86 | 43 | 86 | S | | S2M 342 | 171 | 342 | S | |
| S2M 88 | 44 | 88 | S | | S2M 344 | 172 | 344 | S | |
| S2M 90 | 45 | 90 | S | S | S2M 350 | 175 | 350 | S | |
| S2M 98 | 49 | 98 | S | S | S2M 354 | 177 | 354 | S | |
| S2M 100 | 50 | 100 | S | S | S2M 360 | 180 | 360 | S | S |
| S2M 102 | 51 | 102 | S | | S2M 364 | 182 | 364 | S | |
| S2M 104 | 52 | 104 | S | | S2M 370 | 185 | 370 | S | S |
| S2M 106 | 53 | 106 | S | | S2M 372 | 186 | 372 | S | |
| S2M 110 | 55 | 110 | S | | S2M 374 | 187 | 374 | S | |
| S2M 112 | 56 | 112 | S | S | S2M 376 | 188 | 376 | S | |
| S2M 114 | 57 | 114 | S | S | S2M 380 | 190 | 380 | S | |
| S2M 116 | 58 | 116 | S | | S2M 386 | 193 | 386 | S | |
| S2M 118 | 59 | 118 | S | S | S2M 390 | 195 | 390 | S | |
| S2M 120 | 60 | 120 | S | S | S2M 396 | 198 | 396 | S | S |
| S2M 122 | 61 | 122 | S | S | S2M 400 | 200 | 400 | S | |
| S2M 124 | 62 | 124 | S | | S2M 402 | 201 | 402 | S | |
| S2M 126 | 63 | 126 | S | S | S2M 408 | 204 | 408 | S | |
| S2M 128 | 64 | 128 | S | | S2M 410 | 205 | 410 | S | |
| S2M 130 | 65 | 130 | S | S | S2M 420 | 210 | 420 | S | |
| S2M 132 | 66 | 132 | S | | S2M 426 | 213 | 426 | S | |
| S2M 134 | 67 | 134 | S | | S2M 430 | 215 | 430 | S | |
| S2M 136 | 68 | 136 | S | | S2M 434 | 217 | 434 | S | |
| S2M 138 | 69 | 138 | S | S | S2M 436 | 218 | 436 | S | S |
| S2M 140 | 70 | 140 | S | S | S2M 438 | 219 | 438 | S | |
| S2M 142 | 71 | 142 | S | | S2M 440 | 220 | 440 | S | |
| S2M 144 | 72 | 144 | S | S | S2M 442 | 221 | 442 | S | |
| S2M 146 | 73 | 146 | S | | S2M 444 | 222 | 444 | S | |
| S2M 148 | 74 | 148 | S | | S2M 448 | 224 | 448 | S | S |
| S2M 150 | 75 | 150 | S | | S2M 452 | 226 | 452 | S | |
| S2M 152 | 76 | 152 | S | S | S2M 456 | 228 | 456 | S | |
| S2M 156 | 78 | 156 | S | S | S2M 460 | 230 | 460 | S | |
| S2M 158 | 79 | 158 | S | S | S2M 464 | 232 | 464 | S | |
| S2M 160 | 80 | 160 | S | S | S2M 468 | 234 | 468 | S | |
| S2M 164 | 82 | 164 | S | S | S2M 474 | 237 | 474 | S | |
| S2M 166 | 83 | 166 | S | S | S2M 476 | 238 | 476 | S | |
| S2M 168 | 84 | 168 | S | | S2M 480 | 240 | 480 | S | |
| S2M 170 | 85 | 170 | S | | S2M 486 | 243 | 486 | S | S |
| S2M 172 | 86 | 172 | S | S | S2M 488 | 244 | 488 | | S |
| S2M 174 | 87 | 174 | S | | S2M 494 | 247 | 494 | S | |
| S2M 176 | 88 | 176 | S | | S2M 500 | 250 | 500 | S | |
| S2M 178 | 89 | 178 | S | | S2M 520 | 260 | 520 | S | S |
| S2M 180 | 90 | 180 | S | | S2M 524 | 262 | 524 | S | |
| S2M 182 | 91 | 182 | S | | S2M 530 | 265 | 530 | S | |
| S2M 184 | 92 | 184 | S | | S2M 550 | 275 | 550 | S | |
| S2M 186 | 93 | 186 | S | | S2M 552 | 276 | 552 | S | |
| S2M 188 | 94 | 188 | S | | S2M 560 | 280 | 560 | S | S |
| S2M 190 | 95 | 190 | S | S | S2M 572 | 286 | 572 | S | S |
| S2M 192 | 96 | 192 | S | | S2M 580 | 290 | 580 | | S |
| S2M 194 | 97 | 194 | S | S | S2M 586 | 293 | 586 | S | |
| S2M 196 | 98 | 196 | S | | S2M 594 | 297 | 594 | S | |
| S2M 198 | 99 | 198 | S | | S2M 600 | 300 | 600 | S | |
| S2M 200 | 100 | 200 | S | S | S2M 610 | 305 | 610 | S | |
| S2M 202 | 101 | 202 | S | | S2M 630 | 315 | 630 | S | S |
| S2M 204 | 102 | 204 | S | | S2M 638 | 319 | 638 | S | |
| S2M 206 | 103 | 206 | S | | S2M 648 | 324 | 648 | S | |
| S2M 208 | 104 | 208 | S | | S2M 656 | 328 | 656 | S | |
| S2M 210 | 105 | 210 | S | S | S2M 660 | 330 | 660 | S | |
| S2M 212 | 106 | 212 | S | S | S2M 672 | 336 | 672 | S | |
| S2M 214 | 107 | 214 | S | | S2M 676 | 338 | 676 | S | |
| S2M 216 | 108 | 216 | S | | S2M 694 | 347 | 694 | S | |
| S2M 218 | 109 | 218 | | S | S2M 700 | 350 | 700 | S | |
| S2M 220 | 110 | 220 | S | S | S2M 710 | 355 | 710 | S | |
| S2M 222 | 111 | 222 | S | | S2M 726 | 363 | 726 | S | |
| S2M 224 | 112 | 224 | S | S | S2M 740 | 370 | 740 | S | |
| S2M 226 | 113 | 226 | S | | S2M 752 | 376 | 752 | S | |
| S2M 230 | 115 | 230 | S | S | S2M 772 | 386 | 772 | S | |
| S2M 232 | 116 | 232 | S | | S2M 778 | 389 | 778 | S | |
| S2M 234 | 117 | 234 | S | | S2M 796 | 398 | 796 | S | |
| S2M 236 | 118 | 236 | S | S | S2M 800 | 400 | 800 | S | |
| S2M 238 | 119 | 238 | S | | S2M 810 | 405 | 810 | S | |
| S2M 240 | 120 | 240 | S | S | S2M 822 | 411 | 822 | S | |
| S2M 242 | 121 | 242 | | S | S2M 826 | 413 | 826 | S | |
| S2M 244 | 122 | 244 | S | S | S2M 828 | 414 | 828 | S | |
| S2M 246 | 123 | 246 | S | S | S2M 848 | 424 | 848 | S | |
| S2M 248 | 124 | 248 | S | | S2M 856 | 428 | 856 | S | |
| S2M 250 | 125 | 250 | S | S | S2M 862 | 431 | 862 | S | |
| S2M 252 | 126 | 252 | S | | S2M 866 | 433 | 866 | S | |
| S2M 254 | 127 | 254 | S | | S2M 880 | 440 | 880 | S | |
| S2M 256 | 128 | 256 | S | | S2M 882 | 441 | 882 | S | |
| S2M 258 | 129 | 258 | S | | S2M 898 | 449 | 898 | S | |
| S2M 260 | 130 | 260 | S | S | S2M 900 | 450 | 900 | S | |
| S2M 262 | 131 | 262 | S | | S2M 910 | 455 | 910 | S | |
| S2M 264 | 132 | 264 | S | | S2M 930 | 465 | 930 | S | |
| S2M 266 | 133 | 266 | S | | S2M 944 | 472 | 944 | S | |
| S2M 268 | 134 | 268 | S | | S2M 950 | 475 | 950 | S | |
| S2M 270 | 135 | 270 | S | | S2M 976 | 488 | 976 | S | |
| S2M 272 | 136 | 272 | S | | S2M 984 | 492 | 984 | S | S |
| S2M 276 | 138 | 276 | S | | S2M 1016 | 508 | 1016 | S | |
| S2M 278 | 139 | 278 | S | | S2M 1032 | 516 | 1032 | | S |
| S2M 280 | 140 | 280 | S | S | S2M 1062 | 531 | 1062 | S | |
| S2M 284 | 142 | 284 | S | | S2M 1064 | 532 | 1064 | S | |
| S2M 286 | 143 | 286 | S | | S2M 1066 | 533 | 1066 | S | |
| S2M 288 | 144 | 288 | S | | S2M 1100 | 550 | 1100 | S | |
| S2M 290 | 145 | 290 | S | S | S2M 1136 | 568 | 1136 | S | |
| S2M 292 | 146 | 292 | S | | S2M 1140 | 570 | 1140 | S | |
| S2M 294 | 147 | 294 | S | | S2M 1148 | 574 | 1148 | S | |
| S2M 296 | 148 | 296 | S | | S2M 1196 | 598 | 1196 | S | S |
| S2M 300 | 150 | 300 | S | | S2M 1224 | 612 | 1224 | S | |
| S2M 302 | 151 | 302 | S | | S2M 1250 | 625 | 1250 | S | S |
| S2M 304 | 152 | 304 | S | | S2M 1274 | 637 | 1274 | S | |
| S2M 306 | 153 | 306 | S | | S2M 1290 | 645 | 1290 | S | |
| S2M 308 | 154 | 308 | S | | S2M 1330 | 665 | 1330 | S | |
| S2M 310 | 155 | 310 | S | | S2M 1420 | 710 | 1420 | S | |
| S2M 312 | 156 | 312 | S | | S2M 1516 | 758 | 1516 | S | |
| S2M 316 | 158 | 316 | S | | S2M 1524 | 762 | 1524 | S | |
| S2M 318 | 159 | 318 | S | | S2M 1878 | 939 | 1878 | S | |
| S2M 320 | 160 | 320 | S | S | S2M 2130 | 1065 | 2130 | S | |
| S2M 322 | 161 | 322 | S | | | | | | |

- S=Single-sided
- Some sizes may not be in stock. Please contact us for the stock status before placing an order.

# SUPER TORQUE G & U

## Standard Belt Sizes

| Belt Type | S3M |
|---|---|
| Tooth Pitch | 3.0(mm) |
| Code(width) | 60(6mm) 100(10mm) 150(15mm) |

Size

| Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB | Manufacturable Size U |
|---|---|---|---|---|
| S3M 96 | 32 | 96 | S | |
| S3M 102 | 34 | 102 | S | |
| S3M 114 | 38 | 114 | S | |
| S3M 117 | 39 | 117 | S | |
| S3M 120 | 40 | 120 | S | |
| S3M 123 | 41 | 123 | S | |
| S3M 129 | 43 | 129 | S | |
| S3M 132 | 44 | 132 | S | |
| S3M 135 | 45 | 135 | S | |
| S3M 141 | 47 | 141 | S | S |
| S3M 144 | 48 | 144 | S | S |
| S3M 147 | 49 | 147 | S | |
| S3M 150 | 50 | 150 | S | |
| S3M 156 | 52 | 156 | S | |
| S3M 159 | 53 | 159 | S | |
| S3M 162 | 54 | 162 | S | S |
| S3M 168 | 56 | 168 | S | |
| S3M 171 | 57 | 171 | S | |
| S3M 174 | 58 | 174 | S | S |
| S3M 177 | 59 | 177 | S | S |
| S3M 180 | 60 | 180 | S | S |
| S3M 186 | 62 | 186 | S | S |
| S3M 189 | 63 | 189 | S | S |
| S3M 192 | 64 | 192 | S | S |
| S3M 195 | 65 | 195 | S | S |
| S3M 198 | 66 | 198 | S | |
| S3M 201 | 67 | 201 | S | S |
| S3M 204 | 68 | 204 | S | |
| S3M 207 | 69 | 207 | S | |
| S3M 210 | 70 | 210 | S | S |
| S3M 213 | 71 | 213 | S | S |
| S3M 216 | 72 | 216 | S | S |
| S3M 219 | 73 | 219 | S | S |
| S3M 222 | 74 | 222 | S | |
| S3M 225 | 75 | 225 | S | S |
| S3M 228 | 76 | 228 | S | |
| S3M 231 | 77 | 231 | S | |
| S3M 234 | 78 | 234 | S | |
| S3M 237 | 79 | 237 | S | |
| S3M 243 | 81 | 243 | S | |
| S3M 246 | 82 | 246 | S | S |
| S3M 249 | 83 | 249 | S | S |
| S3M 252 | 84 | 252 | S | S |
| S3M 255 | 85 | 255 | S | S |
| S3M 258 | 86 | 258 | S | |
| S3M 261 | 87 | 261 | S | |
| S3M 264 | 88 | 264 | S | S |
| S3M 267 | 89 | 267 | S | |
| S3M 270 | 90 | 270 | S | |
| S3M 273 | 91 | 273 | S | |
| S3M 276 | 92 | 276 | S | S |
| S3M 279 | 93 | 279 | S | |
| S3M 282 | 94 | 282 | S | |
| S3M 285 | 95 | 285 | S | |
| S3M 288 | 96 | 288 | S | S |
| S3M 291 | 97 | 291 | S | |
| S3M 300 | 100 | 300 | S・D | S |
| S3M 303 | 101 | 303 | S・D | |
| S3M 306 | 102 | 306 | S・D | |
| S3M 309 | 103 | 309 | S・D | |
| S3M 312 | 104 | 312 | S・D | S |
| S3M 315 | 105 | 315 | S・D | |
| S3M 318 | 106 | 318 | S・D | S |
| S3M 324 | 108 | 324 | S・D | |
| S3M 327 | 109 | 327 | S・D | S |
| S3M 330 | 110 | 330 | S・D | |
| S3M 333 | 111 | 333 | S・D | |
| S3M 339 | 113 | 339 | S・D | |
| S3M 342 | 114 | 342 | S・D | |
| S3M 345 | 115 | 345 | S・D | S |
| S3M 348 | 116 | 348 | S・D | |
| S3M 351 | 117 | 351 | S・D | |
| S3M 354 | 118 | 354 | S・D | |
| S3M 360 | 120 | 360 | S・D | S |
| S3M 363 | 121 | 363 | S・D | S |
| S3M 366 | 122 | 366 | S・D | |
| S3M 369 | 123 | 369 | S・D | S |
| S3M 372 | 124 | 372 | S・D | |
| S3M 375 | 125 | 375 | S・D | S |
| S3M 378 | 126 | 378 | | S |
| S3M 384 | 128 | 384 | S・D | |
| S3M 387 | 129 | 387 | S・D | S |
| S3M 393 | 131 | 393 | S・D | |
| S3M 396 | 132 | 396 | S・D | S |
| S3M 399 | 133 | 399 | S・D | |
| S3M 402 | 134 | 402 | S・D | S |
| S3M 405 | 135 | 405 | S・D | S |
| S3M 408 | 136 | 408 | S・D | S |
| S3M 414 | 138 | 414 | S・D | |
| S3M 417 | 139 | 417 | S・D | |
| S3M 420 | 140 | 420 | S・D | S |
| S3M 423 | 141 | 423 | S・D | |
| S3M 426 | 142 | 426 | S・D | |
| S3M 432 | 144 | 432 | S・D | S |
| S3M 435 | 145 | 435 | S・D | |
| S3M 444 | 148 | 444 | S・D | |
| S3M 447 | 149 | 447 | S・D | |
| S3M 453 | 151 | 453 | S・D | S |
| S3M 456 | 152 | 456 | S・D | |
| S3M 459 | 153 | 459 | S・D | S |
| S3M 468 | 156 | 468 | S・D | |
| S3M 471 | 157 | 471 | S・D | |
| S3M 474 | 158 | 474 | S・D | S |
| S3M 480 | 160 | 480 | S・D | |
| S3M 483 | 161 | 483 | S・D | S |
| S3M 486 | 162 | 486 | S・D | |
| S3M 489 | 163 | 489 | S・D | |
| S3M 492 | 164 | 492 | S・D | |
| S3M 498 | 166 | 498 | S・D | |
| S3M 501 | 167 | 501 | S・D | S |
| S3M 504 | 168 | 504 | S・D | |
| S3M 507 | 169 | 507 | S・D | |
| S3M 510 | 170 | 510 | S・D | |

| Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB | Manufacturable Size U |
|---|---|---|---|---|
| S3M 513 | 171 | 513 | S・D | |
| S3M 516 | 172 | 516 | S・D | |
| S3M 519 | 173 | 519 | S・D | S |
| S3M 522 | 174 | 522 | S・D | |
| S3M 525 | 175 | 525 | S・D | |
| S3M 528 | 176 | 528 | S・D | |
| S3M 537 | 179 | 537 | S・D | S |
| S3M 540 | 180 | 540 | S・D | S |
| S3M 543 | 181 | 543 | S・D | |
| S3M 549 | 183 | 549 | S・D | |
| S3M 552 | 184 | 552 | S・D | |
| S3M 558 | 186 | 558 | S・D | |
| S3M 561 | 187 | 561 | S・D | |
| S3M 564 | 188 | 564 | S・D | S |
| S3M 570 | 190 | 570 | S・D | |
| S3M 573 | 191 | 573 | S・D | |
| S3M 576 | 192 | 576 | S・D | |
| S3M 579 | 193 | 579 | S・D | |
| S3M 582 | 194 | 582 | S・D | |
| S3M 588 | 196 | 588 | S・D | |
| S3M 591 | 197 | 591 | S・D | S |
| S3M 597 | 199 | 597 | S・D | |
| S3M 600 | 200 | 600 | S・D | S |
| S3M 603 | 201 | 603 | S・D | |
| S3M 609 | 203 | 609 | S・D | |
| S3M 612 | 204 | 612 | S・D | |
| S3M 621 | 207 | 621 | S・D | |
| S3M 624 | 208 | 624 | S・D | |
| S3M 633 | 211 | 633 | S・D | S |
| S3M 642 | 214 | 642 | S・D | |
| S3M 645 | 215 | 645 | S・D | S |
| S3M 648 | 216 | 648 | S・D | |
| S3M 657 | 219 | 657 | S・D | |
| S3M 660 | 220 | 660 | S・D | |
| S3M 663 | 221 | 663 | S・D | |
| S3M 666 | 222 | 666 | S・D | |
| S3M 669 | 223 | 669 | S・D | |
| S3M 672 | 224 | 672 | S・D | |
| S3M 681 | 227 | 681 | S・D | S |
| S3M 687 | 229 | 687 | S・D | |
| S3M 693 | 231 | 693 | S・D | |
| S3M 699 | 233 | 699 | S・D | |
| S3M 720 | 240 | 720 | S・D | |
| S3M 726 | 242 | 726 | S・D | |
| S3M 741 | 247 | 741 | S・D | S |
| S3M 744 | 248 | 744 | S・D | |
| S3M 750 | 250 | 750 | S・D | S |
| S3M 753 | 251 | 753 | S・D | |
| S3M 756 | 252 | 756 | S・D | |
| S3M 759 | 253 | 759 | S・D | |
| S3M 762 | 254 | 762 | S・D | |
| S3M 765 | 255 | 765 | S・D | |
| S3M 771 | 257 | 771 | S・D | |
| S3M 774 | 258 | 774 | S・D | |
| S3M 786 | 262 | 786 | S・D | |
| S3M 789 | 263 | 789 | S・D | |
| S3M 804 | 268 | 804 | S・D | |
| S3M 810 | 270 | 810 | S・D | |
| S3M 819 | 273 | 819 | S・D | |
| S3M 825 | 275 | 825 | S・D | |
| S3M 831 | 277 | 831 | S・D | |
| S3M 837 | 279 | 837 | S・D | |
| S3M 852 | 284 | 852 | S・D | |
| S3M 858 | 286 | 858 | S・D | |
| S3M 882 | 294 | 882 | S・D | |
| S3M 888 | 296 | 888 | S・D | |
| S3M 894 | 298 | 894 | S・D | |
| S3M 900 | 300 | 900 | S・D | |
| S3M 909 | 303 | 909 | S・D | |
| S3M 918 | 306 | 918 | S・D | |
| S3M 927 | 309 | 927 | S・D | |
| S3M 936 | 312 | 936 | S・D | |
| S3M 954 | 318 | 954 | S・D | |
| S3M 963 | 321 | 963 | S・D | |
| S3M 999 | 333 | 999 | S・D | |
| S3M 1005 | 335 | 1005 | S・D | |
| S3M 1014 | 338 | 1014 | S・D | |
| S3M 1017 | 339 | 1017 | S・D | |
| S3M 1035 | 345 | 1035 | S・D | |
| S3M 1050 | 350 | 1050 | S・D | |
| S3M 1080 | 360 | 1080 | S・D | |
| S3M 1113 | 371 | 1113 | S・D | |
| S3M 1119 | 373 | 1119 | S・D | |
| S3M 1146 | 382 | 1146 | S・D | |
| S3M 1152 | 384 | 1152 | S・D | |
| S3M 1170 | 390 | 1170 | S・D | |
| S3M 1176 | 392 | 1176 | S・D | |
| S3M 1188 | 396 | 1188 | S・D | |
| S3M 1203 | 401 | 1203 | S・D | |
| S3M 1221 | 407 | 1221 | S・D | |
| S3M 1236 | 412 | 1236 | S・D | |
| S3M 1245 | 415 | 1245 | S・D | |
| S3M 1260 | 420 | 1260 | S・D | |
| S3M 1290 | 430 | 1290 | S・D | |
| S3M 1299 | 433 | 1299 | S・D | |
| S3M 1305 | 435 | 1305 | S・D | |
| S3M 1326 | 442 | 1326 | S・D | |
| S3M 1332 | 444 | 1332 | S・D | |
| S3M 1374 | 458 | 1374 | S・D | |
| S3M 1401 | 467 | 1401 | S・D | |
| S3M 1419 | 473 | 1419 | S・D | |
| S3M 1422 | 474 | 1422 | S・D | |
| S3M 1461 | 487 | 1461 | S・D | |
| S3M 1521 | 507 | 1521 | S・D | |
| S3M 1560 | 520 | 1560 | | S |
| S3M 1596 | 532 | 1596 | S・D | |
| S3M 1650 | 550 | 1650 | S・D | |
| S3M 1680 | 560 | 1680 | S・D | |
| S3M 1788 | 596 | 1788 | S・D | |
| S3M 2100 | 700 | 2100 | S・D | |
| S3M 2115 | 705 | 2115 | S・D | |
| S3M 2250 | 750 | 2250 | S・D | |

- S=Single-sided D=Double timing belt
- Some sizes may not be in stock.
  Please contact us for the stock status before placing an order.

# SUPER TORQUE G

## Standard Belt Sizes

| Belt Type | S5M | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Tooth Pitch | 5.0(mm) | | | | | | | |
| Code(width) | 100(10mm) 150(15mm) 250(25mm) | | | | | | | |
| Size | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size S:GB Type D:G Type | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size S:GB Type D:G Type |
| | S5M 225 | 45 | 225 | S | S5M 830 | 166 | 830 | S · D |
| | S5M 255 | 51 | 255 | S | S5M 845 | 169 | 845 | S · D |
| | S5M 260 | 52 | 260 | S | S5M 850 | 170 | 850 | S · D |
| | S5M 295 | 59 | 295 | S | S5M 870 | 174 | 870 | S · D |
| | S5M 300 | 60 | 300 | S | S5M 890 | 178 | 890 | S · D |
| | S5M 305 | 61 | 305 | S | S5M 900 | 180 | 900 | S · D |
| | S5M 320 | 64 | 320 | S | S5M 930 | 186 | 930 | S · D |
| | S5M 325 | 65 | 325 | S | S5M 950 | 190 | 950 | S · D |
| | S5M 340 | 68 | 340 | S | S5M 965 | 193 | 965 | S · D |
| | S5M 350 | 70 | 350 | S | S5M 975 | 195 | 975 | S · D |
| | S5M 375 | 75 | 375 | S | S5M 980 | 196 | 980 | S · D |
| | S5M 380 | 76 | 380 | S | S5M 1000 | 200 | 1000 | S · D |
| | S5M 390 | 78 | 390 | S | S5M 1025 | 205 | 1025 | S · D |
| | S5M 395 | 79 | 395 | S | S5M 1050 | 210 | 1050 | S · D |
| | S5M 400 | 80 | 400 | S · D | S5M 1055 | 211 | 1055 | S · D |
| | S5M 410 | 82 | 410 | S · D | S5M 1085 | 217 | 1085 | S · D |
| | S5M 425 | 85 | 425 | S · D | S5M 1090 | 218 | 1090 | S · D |
| | S5M 435 | 87 | 435 | S · D | S5M 1100 | 220 | 1100 | S · D |
| | S5M 440 | 88 | 440 | S · D | S5M 1105 | 221 | 1105 | S · D |
| | S5M 450 | 90 | 450 | S · D | S5M 1115 | 223 | 1115 | S · D |
| | S5M 460 | 92 | 460 | S · D | S5M 1120 | 224 | 1120 | S · D |
| | S5M 470 | 94 | 470 | S · D | S5M 1125 | 225 | 1125 | S · D |
| | S5M 475 | 95 | 475 | S · D | S5M 1135 | 227 | 1135 | S · D |
| | S5M 490 | 98 | 490 | S · D | S5M 1145 | 229 | 1145 | S · D |
| | S5M 500 | 100 | 500 | S · D | S5M 1160 | 232 | 1160 | S · D |
| | S5M 520 | 104 | 520 | S · D | S5M 1165 | 233 | 1165 | S · D |
| | S5M 525 | 105 | 525 | S · D | S5M 1195 | 239 | 1195 | S · D |
| | S5M 530 | 106 | 530 | S · D | S5M 1200 | 240 | 1200 | S · D |
| | S5M 545 | 109 | 545 | S · D | S5M 1225 | 245 | 1225 | S · D |
| | S5M 550 | 110 | 550 | S · D | S5M 1250 | 250 | 1250 | S · D |
| | S5M 560 | 112 | 560 | S · D | S5M 1270 | 254 | 1270 | S · D |
| | S5M 575 | 115 | 575 | S · D | S5M 1290 | 258 | 1290 | S · D |
| | S5M 590 | 118 | 590 | S · D | S5M 1295 | 259 | 1295 | S · D |
| | S5M 595 | 119 | 595 | S · D | S5M 1350 | 270 | 1350 | S · D |
| | S5M 600 | 120 | 600 | S · D | S5M 1420 | 284 | 1420 | S · D |
| | S5M 615 | 123 | 615 | S · D | S5M 1475 | 295 | 1475 | S · D |
| | S5M 625 | 125 | 625 | S · D | S5M 1500 | 300 | 1500 | S · D |
| | S5M 640 | 128 | 640 | S · D | S5M 1505 | 301 | 1505 | S · D |
| | S5M 650 | 130 | 650 | S · D | S5M 1530 | 306 | 1530 | S · D |
| | S5M 665 | 133 | 665 | S · D | S5M 1595 | 319 | 1595 | S · D |
| | S5M 670 | 134 | 670 | S · D | S5M 1605 | 321 | 1605 | S · D |
| | S5M 675 | 135 | 675 | S · D | S5M 1615 | 323 | 1615 | S · D |
| | S5M 690 | 138 | 690 | S · D | S5M 1680 | 336 | 1680 | S · D |
| | S5M 695 | 139 | 695 | S · D | S5M 1690 | 338 | 1690 | S · D |
| | S5M 700 | 140 | 700 | S · D | S5M 1715 | 343 | 1715 | S · D |
| | S5M 710 | 142 | 710 | S · D | S5M 1800 | 360 | 1800 | S · D |
| | S5M 720 | 144 | 720 | S · D | S5M 1945 | 389 | 1945 | S · D |
| | S5M 725 | 145 | 725 | S · D | S5M 2000 | 400 | 2000 | S · D |
| | S5M 730 | 146 | 730 | S · D | S5M 2050 | 410 | 2050 | S |
| | S5M 740 | 148 | 740 | S · D | S5M 2145 | 429 | 2145 | S · D |
| | S5M 750 | 150 | 750 | S · D | S5M 2255 | 451 | 2255 | S · D |
| | S5M 765 | 153 | 765 | S · D | S5M 2480 | 496 | 2480 | S · D |
| | S5M 770 | 154 | 770 | S | S5M 2525 | 505 | 2525 | S · D |
| | S5M 780 | 156 | 780 | S · D | S5M 2670 | 534 | 2670 | S |
| | S5M 800 | 160 | 800 | S · D | S5M 2980 | 596 | 2980 | S · D |
| | S5M 810 | 162 | 810 | S · D | S5M 3090 | 618 | 3090 | S · D |

- S=Single-sided D=Double timing belt
- Some sizes may not be in stock.
  Please contact us for the stock status before placing an order.

# SUPER TORQUE G



## Standard Belt Sizes

| Belt Type | S8M | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Tooth Pitch | 8.0(mm) | | | | | | | |
| Code(width) | 150(15mm) 250(25mm) 300(30mm) 400(40mm) 600(60mm) | | | | | | | |
| Size | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size (G Type) | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size (G Type) |
| | S8M 376 | 47 | 376 | S | S8M 1312 | 164 | 1312 | S · D |
| | S8M 400 | 50 | 400 | S | S8M 1320 | 165 | 1320 | S · D |
| | S8M 408 | 51 | 408 | S | S8M 1352 | 169 | 1352 | S · D |
| | S8M 440 | 55 | 440 | S | S8M 1360 | 170 | 1360 | S · D |
| | S8M 480 | 60 | 480 | S · D | S8M 1384 | 173 | 1384 | S · D |
| | S8M 496 | 62 | 496 | S · D | S8M 1400 | 175 | 1400 | S · D |
| | S8M 512 | 64 | 512 | S · D | S8M 1424 | 178 | 1424 | S · D |
| | S8M 520 | 65 | 520 | S · D | S8M 1440 | 180 | 1440 | S · D |
| | S8M 528 | 66 | 528 | S · D | S8M 1480 | 185 | 1480 | S · D |
| | S8M 560 | 70 | 560 | S · D | S8M 1488 | 186 | 1488 | S · D |
| | S8M 584 | 73 | 584 | S · D | S8M 1520 | 190 | 1520 | S · D |
| | S8M 600 | 75 | 600 | S · D | S8M 1552 | 194 | 1552 | S |
| | S8M 632 | 79 | 632 | S · D | S8M 1600 | 200 | 1600 | S · D |
| | S8M 640 | 80 | 640 | S · D | S8M 1640 | 205 | 1640 | S · D |
| | S8M 656 | 82 | 656 | S · D | S8M 1648 | 206 | 1648 | S · D |
| | S8M 680 | 85 | 680 | S · D | S8M 1680 | 210 | 1680 | S · D |
| | S8M 712 | 89 | 712 | S · D | S8M 1696 | 212 | 1696 | S · D |
| | S8M 720 | 90 | 720 | S · D | S8M 1728 | 216 | 1728 | S · D |
| | S8M 760 | 95 | 760 | S · D | S8M 1760 | 220 | 1760 | S · D |
| | S8M 800 | 100 | 800 | S · D | S8M 1776 | 222 | 1776 | S · D |
| | S8M 824 | 103 | 824 | S · D | S8M 1792 | 224 | 1792 | S · D |
| | S8M 840 | 105 | 840 | S · D | S8M 1800 | 225 | 1800 | S · D |
| | S8M 848 | 106 | 848 | S · D | S8M 1816 | 227 | 1816 | S · D |
| | S8M 856 | 107 | 856 | S · D | S8M 1832 | 229 | 1832 | S · D |
| | S8M 880 | 110 | 880 | S · D | S8M 1880 | 235 | 1880 | S · D |
| | S8M 896 | 112 | 896 | S · D | S8M 1912 | 239 | 1912 | S · D |
| | S8M 912 | 114 | 912 | S · D | S8M 1960 | 245 | 1960 | S · D |
| | S8M 920 | 115 | 920 | S · D | S8M 2000 | 250 | 2000 | S · D |
| | S8M 928 | 116 | 928 | S · D | S8M 2040 | 255 | 2040 | S · D |
| | S8M 944 | 118 | 944 | S · D | S8M 2048 | 256 | 2048 | S · D |
| | S8M 952 | 119 | 952 | S · D | S8M 2064 | 258 | 2064 | S · D |
| | S8M 960 | 120 | 960 | S · D | S8M 2104 | 263 | 2104 | S · D |
| | S8M 976 | 122 | 976 | S · D | S8M 2120 | 265 | 2120 | S · D |
| | S8M 984 | 123 | 984 | S · D | S8M 2160 | 270 | 2160 | S · D |
| | S8M 1000 | 125 | 1000 | S · D | S8M 2240 | 280 | 2240 | S · D |
| | S8M 1024 | 128 | 1024 | S · D | S8M 2272 | 284 | 2272 | S · D |
| | S8M 1040 | 130 | 1040 | S · D | S8M 2304 | 288 | 2304 | S · D |
| | S8M 1056 | 132 | 1056 | S · D | S8M 2376 | 297 | 2376 | S · D |
| | S8M 1080 | 135 | 1080 | S · D | S8M 2400 | 300 | 2400 | S · D |
| | S8M 1096 | 137 | 1096 | S | S8M 2496 | 312 | 2496 | S · D |
| | S8M 1120 | 140 | 1120 | S · D | S8M 2600 | 325 | 2600 | S · D |
| | S8M 1128 | 141 | 1128 | S · D | S8M 2800 | 350 | 2800 | S · D |
| | S8M 1136 | 142 | 1136 | S · D | S8M 2920 | 365 | 2920 | S · D |
| | S8M 1152 | 144 | 1152 | S · D | S8M 2944 | 368 | 2944 | S · D |
| | S8M 1160 | 145 | 1160 | S · D | S8M 3048 | 381 | 3048 | S · D |
| | S8M 1184 | 148 | 1184 | S · D | S8M 3200 | 400 | 3200 | S · D |
| | S8M 1200 | 150 | 1200 | S · D | S8M 3248 | 406 | 3248 | S · D |
| | S8M 1216 | 152 | 1216 | S · D | S8M 3272 | 409 | 3272 | S · D |
| | S8M 1224 | 153 | 1224 | S · D | S8M 3440 | 430 | 3440 | S · D |
| | S8M 1248 | 156 | 1248 | S · D | S8M 3680 | 460 | 3680 | S · D |
| | S8M 1256 | 157 | 1256 | S · D | S8M 3720 | 465 | 3720 | S · D |
| | S8M 1280 | 160 | 1280 | S · D | S8M 3904 | 488 | 3904 | S · D |
| | S8M 1296 | 162 | 1296 | S · D | S8M 3928 | 491 | 3928 | S · D |
| | S8M 1304 | 163 | 1304 | S · D | S8M 4400 | 550 | 4400 | S · D |

- S=Single-sided D=Double timing belt
- Some sizes may not be in stock.
  Please contact us for the stock status before placing an order.

# SUPER TORQUE G

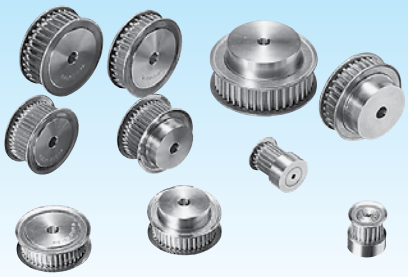


## Standard Belt Sizes

| Belt Type | S14M | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Tooth Pitch | 14.0(mm) | | | | | | | |
| Code(width) | 400(40mm) 600(60mm) 800(80mm) 1000(100mm) 1200(120mm) | | | | | | | |
| | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size (G Type) | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size (G Type) |
| Size | S14M 1008 | 72 | 1008 | S | S14M 2100 | 150 | 2100 | S · D |
| | S14M 1120 | 80 | 1120 | S | S14M 2198 | 157 | 2198 | S · D |
| | S14M 1190 | 85 | 1190 | S | S14M 2240 | 160 | 2240 | S · D |
| | S14M 1246 | 89 | 1246 | S | S14M 2310 | 165 | 2310 | S · D |
| | S14M 1288 | 92 | 1288 | S | S14M 2380 | 170 | 2380 | S · D |
| | S14M 1400 | 100 | 1400 | S · D | S14M 2450 | 175 | 2450 | S · D |
| | S14M 1470 | 105 | 1470 | S · D | S14M 2506 | 179 | 2506 | S · D |
| | S14M 1540 | 110 | 1540 | S · D | S14M 2590 | 185 | 2590 | S · D |
| | S14M 1610 | 115 | 1610 | S · D | S14M 2660 | 190 | 2660 | S · D |
| | S14M 1652 | 118 | 1652 | S · D | S14M 2800 | 200 | 2800 | S · D |
| | S14M 1708 | 122 | 1708 | S · D | S14M 3150 | 225 | 3150 | S · D |
| | S14M 1736 | 124 | 1736 | S · D | S14M 3360 | 240 | 3360 | S · D |
| | S14M 1750 | 125 | 1750 | S · D | S14M 3500 | 250 | 3500 | S · D |
| | S14M 1778 | 127 | 1778 | S · D | S14M 3556 | 254 | 3556 | S · D |
| | S14M 1806 | 129 | 1806 | S · D | S14M 3850 | 275 | 3850 | S · D |
| | S14M 1890 | 135 | 1890 | S · D | S14M 4004 | 286 | 4004 | S · D |
| | S14M 1932 | 138 | 1932 | S · D | S14M 4508 | 322 | 4508 | S · D |
| | S14M 2002 | 143 | 2002 | S · D | S14M 5012 | 358 | 5012 | S · D |

- S=Single-sided D=Double timing belt
- Some sizes may not be in stock.
  Please contact us for the stock status before placing an order.

# SUPER TORQUE Timing Pulley



Timing belt power transmission system works the best when belt and pulley smoothly mesh with each other.
Our SUPER TORQUE Timing Pulley has specially formed tooth shape made with fine finishing.

**Pulley Product Code**

**Example:** P 28 S5M 0100 B

- P — Pulley
- 28 — Number of Pulley Teeth
- S5M — Belt Type
- 0100 — Pulley Width Code (Belt With (mm) x10)
- B — Pulley Type

## SUPER TORQUE Standard Pulley Types and Sizes

(Unit : mm)

| Belt Type | S2M | | | S3M | | | S5M | | |
|---|---|---|---|---|---|---|---|---|---|
| Size | No. of Teeth | Product Code | PD | OD | Product Code | PD | OD | Product Code | PD | OD |
| | 14 | P 14S2M | 8.91 | 8.40 | P 14S3M | 13.37 | 12.61 | P 14S5M | 22.28 | 21.32 |
| | 15 | P 15S2M | 9.55 | 9.04 | P 15S3M | 14.32 | 13.56 | P 15S5M | 23.87 | 22.91 |
| | 16 | P 16S2M | 10.19 | 9.68 | P 16S3M | 15.28 | 14.52 | P 16S5M | 25.46 | 24.50 |
| | 18 | P 18S2M | 11.46 | 10.95 | P 18S3M | 17.19 | 16.43 | P 18S5M | 28.65 | 27.69 |
| | 20 | P 20S2M | 12.73 | 12.22 | P 20S3M | 19.10 | 18.34 | P 20S5M | 31.83 | 30.87 |
| | 22 | P 22S2M | 14.01 | 13.50 | P 22S3M | 21.01 | 20.25 | P 22S5M | 35.01 | 34.05 |
| | 24 | P 24S2M | 15.28 | 14.77 | P 24S3M | 22.92 | 22.16 | P 24S5M | 38.20 | 37.24 |
| | 25 | P 25S2M | 15.92 | 15.41 | P 25S3M | 23.87 | 23.11 | P 25S5M | 39.79 | 38.83 |
| | 26 | P 26S2M | 16.55 | 16.04 | P 26S3M | 24.83 | 24.07 | P 26S5M | 41.38 | 40.42 |
| | 28 | P 28S2M | 17.83 | 17.32 | P 28S3M | 26.74 | 25.98 | P 28S5M | 44.56 | 43.60 |
| | 30 | P 30S2M | 19.10 | 18.59 | P 30S3M | 28.65 | 27.89 | P 30S5M | 47.75 | 46.79 |
| | 32 | P 32S2M | 20.37 | 19.86 | P 32S3M | 30.56 | 29.80 | P 32S5M | 50.93 | 49.97 |
| | 36 | P 36S2M | 22.92 | 22.41 | P 36S3M | 34.38 | 33.62 | P 36S5M | 57.30 | 56.34 |
| | 40 | P 40S2M | 25.46 | 24.96 | P 40S3M | 38.20 | 37.44 | P 40S5M | 63.66 | 62.70 |
| | 44 | P 44S2M | 28.01 | 27.50 | P 44S3M | 42.02 | 41.25 | P 44S5M | 70.03 | 69.07 |
| | 48 | P 48S2M | 30.56 | 30.05 | P 48S3M | 45.84 | 45.07 | P 48S5M | 76.39 | 75.43 |
| | 50 | P 50S2M | 31.83 | 31.32 | P 50S3M | 47.75 | 46.98 | P 50S5M | 79.58 | 78.62 |
| | 60 | P 60S2M | 38.20 | 37.69 | P 60S3M | 57.30 | 56.53 | P 60S5M | 95.49 | 94.53 |

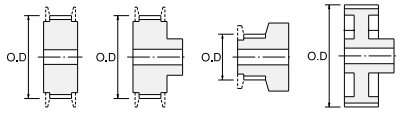
**Standard Sizes**

| Type | 10mm | 15mm | 25mm | Rod Shape |
|---|---|---|---|---|
| S2M | — | — | — | ○ |
| S3M | A·B·C | A·B·C | — | ○ |
| S5M | A·B | A·B | A·B | ○ |

**Materials**

| Type | A·B | C | Rod Shape |
|---|---|---|---|
| S2M | — | — | Aluminum |
| S3M | Aluminum | Aluminum | Aluminum |
| S5M | Aluminum/Steel | — | Steel |

**Pulley Types**



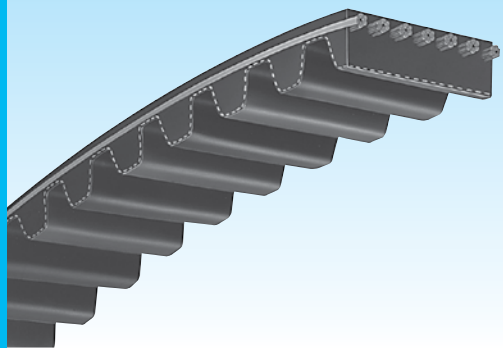

A Type B Type C Type W Type

- Length of Rod Shape is 100mm.
- 22 teeth and below sizes of S3M are available only Rod Shape and C type. Also, 24 teeth and above sizes are available only in Rod Shape, A and B type.
- Material for S5M 25mm width is steel only.
- Flange is not sold separately as a single item.

(Unit : mm)

| Belt Type | S8M | | | | | | S14M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | No. of Teeth | Product Code | PD | OD | A/B Type Standard Width | W Type Standard Width | No. of Teeth | Product Code | PD | OD | A Type Standard Width | B Type Standard Width | W Type Standard Width |
| | 18 | 18S8M | 45.84 | 44.46 | 15·25·30·40 | – | 28 | P 28S14M | 124.78 | 121.98 | 40·60·80 | 40·60 | – |
| | 19 | 19S8M | 48.38 | 47.01 | | – | 30 | P 30S14M | 133.69 | 130.90 | | | – |
| | 20 | 20S8M | 50.93 | 49.56 | | – | 32 | P 32S14M | 142.60 | 139.81 | | | – |
| | 21 | 21S8M | 53.48 | 52.10 | | – | 34 | P 34S14M | 151.52 | 148.72 | | | – |
| | 22 | 22S8M | 56.02 | 54.65 | | – | 36 | P 36S14M | 160.43 | 157.63 | | | – |
| | 24 | 24S8M | 61.12 | 59.74 | | – | 40 | P 40S14M | 178.25 | 175.46 | | | – |
| | 25 | 25S8M | 63.66 | 62.29 | | – | 42 | P 42S14M | 187.17 | 184.37 | | | – |
| | 26 | 26S8M | 66.21 | 64.84 | 15·25·30·40·60 | – | 44 | P 44S14M | 196.08 | 193.28 | | | – |
| | 28 | 28S8M | 71.30 | 69.93 | | – | 48 | P 48S14M | 213.90 | 211.11 | | | – |
| | 30 | 30S8M | 76.39 | 75.02 | | – | 50 | P 50S14M | 222.82 | 220.02 | | | – |
| | 32 | 32S8M | 81.49 | 80.12 | | – | 56 | P 56S14M | 249.55 | 246.76 | | | – |
| | 34 | 34S8M | 86.58 | 85.21 | | – | (60) | P 60S14M | 267.38 | 264.59 | – | – | 40·60 |
| | 36 | 36S8M | 91.67 | 90.30 | | – | (64) | P 64S14M | 285.21 | 282.41 | – | – | |
| | 38 | 38S8M | 96.77 | 95.39 | | – | (72) | P 72S14M | 320.86 | 318.06 | – | – | |
| | 40 | 40S8M | 101.86 | 100.49 | | – | | | | | | | |
| | 44 | 44S8M | 112.05 | 110.67 | | – | | | | | | | |
| | 48 | 48S8M | 122.23 | 120.86 | | – | | | | | | | |
| | 50 | 50S8M | 127.32 | 125.95 | | – | | | | | | | |
| | 60 | 60S8M | 152.79 | 151.42 | | – | | | | | | | |
| | (72) | 72S8M | 183.35 | 181.97 | – | 15·25·40·60 | | | | | | | |
| | (84) | 84S8M | 213.90 | 212.53 | – | | | | | | | | |
| | (96) | 96S8M | 244.46 | 243.09 | – | 25·40·60 | | | | | | | |
| | (120) | 120S8M | 305.58 | 304.21 | – | | | | | | | | |

- No. of teeth in ( ) is nonstocked item.
- Flange is not sold separately as a single item.
- A and B types are made from steel, W type is made from cast metal.



# MegaTorque G & U

## Characteristics of timing belt 'MEGA TORQUE' for low speed/high torque drive :

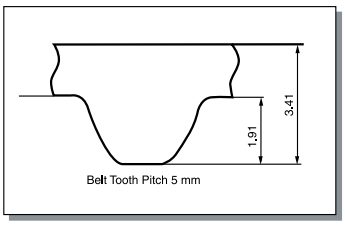
- Large transmission capacity
  (About twice the capacity of SUPER TORQUE may vary with pulley diameter and revolution speed.)
- Compact design possible
  Approximately 40% smaller width on average for the same pulley diameter of SUPER TORQUE
- Pulley of existing models can be used. SUPER TORQUE (S8M, S14M) pulleys can be used as per usual.
  ※ Please contact us regarding pulleys for MTS5M.



# ● MEGA TORQUE G

## Dimensions
- Tooth Shape & Product Code -

### ●MTS5M



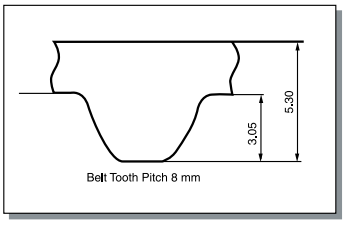

Standard Belt Width

| Nominal Width | Belt Width (mm) |
|---|---|
| 100 | 10 |
| 150 | 15 |
| 250 | 25 |

250 MT S5M 1125 G — Rubber

250: Nominal Width (mm) x10 | MT: MEGA TORQUE | S5M: Belt Type | 1125: Belt Length (mm)

### ●MTS8M



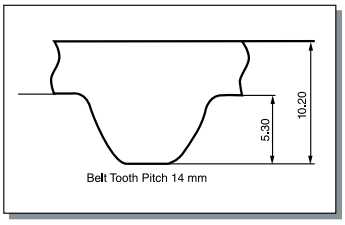

Standard Belt Width

| Nominal Width | Belt Width (mm) |
|---|---|
| 150 | 15 |
| 250 | 25 |
| 300 | 30 |
| 400 | 40 |
| 600 | 60 |

250 MT S8M 1680 G — Rubber

250: Nominal Width (mm) x10 | MT: MEGA TORQUE | S8M: Belt Type | 1680: Belt Length (mm)

### ●MTS14M




Standard Belt Width

| Nominal Width | Belt Width (mm) |
|---|---|
| 400 | 40 |
| 600 | 60 |
| 800 | 80 |
| 1000 | 100 |
| 1200 | 120 |

600 MT S14M 2100 G — Rubber

600: Nominal Width (mm) x10 | MT: MEGA TORQUE | S14M: Belt Type | 2100: Belt Length (mm)

## Standard Belt Sizes

### MTS5M(Pitch 5mm)

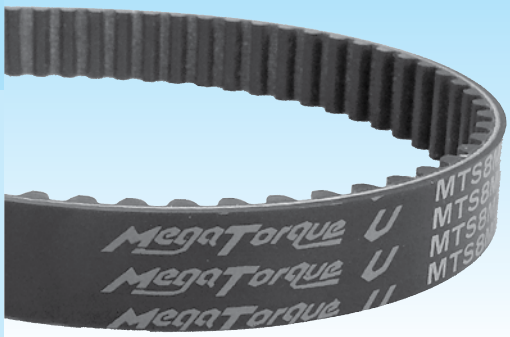
| Nominal length | Number of Teeth | Pitch Length (mm) | Manufacture Size | Nominal length | Number of Teeth | Pitch Length (mm) | Manufacture Size |
|---|---|---|---|---|---|---|---|
| MTS5M 225 G | 45 | 225 | S | MTS5M 845 G | 169 | 845 | S |
| MTS5M 255 G | 51 | 255 | S | MTS5M 850 G | 170 | 850 | S |
| MTS5M 260 G | 52 | 260 | S | MTS5M 870 G | 174 | 870 | S |
| MTS5M 295 G | 59 | 295 | S | MTS5M 890 G | 178 | 890 | S |
| MTS5M 300 G | 60 | 300 | S | MTS5M 900 G | 180 | 900 | S |
| MTS5M 305 G | 61 | 305 | S | MTS5M 930 G | 186 | 930 | S |
| MTS5M 320 G | 64 | 320 | S | MTS5M 950 G | 190 | 950 | S |
| MTS5M 325 G | 65 | 325 | S | MTS5M 965 G | 193 | 965 | S |
| MTS5M 340 G | 68 | 340 | S | MTS5M 975 G | 195 | 975 | S |
| MTS5M 350 G | 70 | 350 | S | MTS5M 980 G | 196 | 980 | S |
| MTS5M 375 G | 75 | 375 | S | MTS5M 1000 G | 200 | 1000 | S |
| MTS5M 380 G | 76 | 380 | S | MTS5M 1025 G | 205 | 1025 | S |
| MTS5M 390 G | 78 | 390 | S | MTS5M 1050 G | 210 | 1050 | S |
| MTS5M 400 G | 80 | 400 | S | MTS5M 1055 G | 211 | 1055 | S |
| MTS5M 410 G | 82 | 410 | S | MTS5M 1085 G | 217 | 1085 | S |
| MTS5M 425 G | 85 | 425 | S | MTS5M 1090 G | 218 | 1090 | S |
| MTS5M 435 G | 87 | 435 | S | MTS5M 1100 G | 220 | 1100 | S |
| MTS5M 440 G | 88 | 440 | S | MTS5M 1105 G | 221 | 1105 | S |
| MTS5M 450 G | 90 | 450 | S | MTS5M 1115 G | 223 | 1115 | S |
| MTS5M 460 G | 92 | 460 | S | MTS5M 1120 G | 224 | 1120 | S |
| MTS5M 470 G | 94 | 470 | S | MTS5M 1125 G | 225 | 1125 | S |
| MTS5M 475 G | 95 | 475 | S | MTS5M 1135 G | 227 | 1135 | S |
| MTS5M 490 G | 98 | 490 | S | MTS5M 1145 G | 229 | 1145 | S |
| MTS5M 500 G | 100 | 500 | S | MTS5M 1160 G | 232 | 1160 | S |
| MTS5M 520 G | 104 | 520 | S | MTS5M 1165 G | 233 | 1165 | S |
| MTS5M 530 G | 106 | 530 | S | MTS5M 1195 G | 239 | 1195 | S |
| MTS5M 545 G | 109 | 545 | S | MTS5M 1200 G | 240 | 1200 | S |
| MTS5M 550 G | 110 | 550 | S | MTS5M 1225 G | 245 | 1225 | S |
| MTS5M 560 G | 112 | 560 | S | MTS5M 1250 G | 250 | 1250 | S |
| MTS5M 575 G | 115 | 575 | S | MTS5M 1270 G | 254 | 1270 | S |
| MTS5M 590 G | 118 | 590 | S | MTS5M 1290 G | 258 | 1290 | S |
| MTS5M 595 G | 119 | 595 | S | MTS5M 1295 G | 259 | 1295 | S |
| MTS5M 600 G | 120 | 600 | S | MTS5M 1350 G | 270 | 1350 | S |
| MTS5M 615 G | 123 | 615 | S | MTS5M 1420 G | 284 | 1420 | S |
| MTS5M 625 G | 125 | 625 | S | MTS5M 1475 G | 295 | 1475 | S |
| MTS5M 640 G | 128 | 640 | S | MTS5M 1500 G | 300 | 1500 | S |
| MTS5M 650 G | 130 | 650 | S | MTS5M 1505 G | 301 | 1505 | S |
| MTS5M 665 G | 133 | 665 | S | MTS5M 1530 G | 306 | 1530 | S |
| MTS5M 670 G | 134 | 670 | S | MTS5M 1595 G | 319 | 1595 | S |
| MTS5M 675 G | 135 | 675 | S | MTS5M 1605 G | 321 | 1605 | S |
| MTS5M 690 G | 138 | 690 | S | MTS5M 1615 G | 323 | 1615 | S |
| MTS5M 695 G | 139 | 695 | S | MTS5M 1680 G | 336 | 1680 | S |
| MTS5M 700 G | 140 | 700 | S | MTS5M 1690 G | 338 | 1690 | S |
| MTS5M 710 G | 142 | 710 | S | MTS5M 1715 G | 343 | 1715 | S |
| MTS5M 720 G | 144 | 720 | S | MTS5M 1800 G | 360 | 1800 | S |
| MTS5M 725 G | 145 | 725 | S | MTS5M 1945 G | 389 | 1945 | S |
| MTS5M 730 G | 146 | 730 | S | MTS5M 2000 G | 400 | 2000 | S |
| MTS5M 740 G | 148 | 740 | S | MTS5M 2145 G | 429 | 2145 | S |
| MTS5M 750 G | 150 | 750 | S | MTS5M 2255 G | 451 | 2255 | S |
| MTS5M 765 G | 153 | 765 | S | MTS5M 2480 G | 496 | 2480 | S |
| MTS5M 780 G | 156 | 780 | S | MTS5M 2525 G | 505 | 2525 | S |
| MTS5M 800 G | 160 | 800 | S | MTS5M 2980 G | 596 | 2980 | S |
| MTS5M 810 G | 162 | 810 | S | MTS5M 3090 G | 618 | 3090 | S |
| MTS5M 830 G | 166 | 830 | S | | | | |

### MTS8M(Pitch 8mm)

| Nominal length | Number of teeth | Pitch Length (mm) | Manufacturable Size | Nominal length | Number of teeth | Pitch Length (mm) | Manufacturable Size | Nominal length | Number of teeth | Pitch Length (mm) | Manufacturable Size |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MTS8M 528 G | 66 | 528 | S | MTS8M 1224 G | 153 | 1224 | S | MTS8M 2104 G | 263 | 2104 | S |
| MTS8M 560 G | 70 | 560 | S | MTS8M 1248 G | 156 | 1248 | S | MTS8M 2120 G | 265 | 2120 | S |
| MTS8M 584 G | 73 | 584 | S | MTS8M 1256 G | 157 | 1256 | S | MTS8M 2160 G | 270 | 2160 | S |
| MTS8M 600 G | 75 | 600 | S | MTS8M 1280 G | 160 | 1280 | S | MTS8M 2240 G | 280 | 2240 | S |
| MTS8M 632 G | 79 | 632 | S | MTS8M 1296 G | 162 | 1296 | S | MTS8M 2272 G | 284 | 2272 | S |
| MTS8M 640 G | 80 | 640 | S | MTS8M 1304 G | 163 | 1304 | S | MTS8M 2304 G | 288 | 2304 | S |
| MTS8M 656 G | 82 | 656 | S | MTS8M 1312 G | 164 | 1312 | S | MTS8M 2376 G | 297 | 2376 | S |
| MTS8M 712 G | 89 | 712 | S | MTS8M 1320 G | 165 | 1320 | S | MTS8M 2400 G | 300 | 2400 | S |
| MTS8M 720 G | 90 | 720 | S | MTS8M 1352 G | 169 | 1352 | S | MTS8M 2496 G | 312 | 2496 | S |
| MTS8M 760 G | 95 | 760 | S | MTS8M 1360 G | 170 | 1360 | S | MTS8M 2600 G | 325 | 2600 | S |
| MTS8M 800 G | 100 | 800 | S | MTS8M 1384 G | 173 | 1384 | S | MTS8M 2800 G | 350 | 2800 | S |
| MTS8M 824 G | 103 | 824 | S | MTS8M 1400 G | 175 | 1400 | S | MTS8M 2920 G | 365 | 2920 | S |
| MTS8M 840 G | 105 | 840 | S | MTS8M 1424 G | 178 | 1424 | S | MTS8M 2944 G | 368 | 2944 | S |
| MTS8M 848 G | 106 | 848 | S | MTS8M 1440 G | 180 | 1440 | S | MTS8M 3048 G | 381 | 3048 | S |
| MTS8M 856 G | 107 | 856 | S | MTS8M 1480 G | 185 | 1480 | S | MTS8M 3200 G | 400 | 3200 | S |
| MTS8M 880 G | 110 | 880 | S | MTS8M 1488 G | 186 | 1488 | S | MTS8M 3248 G | 406 | 3248 | S |
| MTS8M 896 G | 112 | 896 | S | MTS8M 1520 G | 190 | 1520 | S | MTS8M 3272 G | 409 | 3272 | S |
| MTS8M 912 G | 114 | 912 | S | MTS8M 1552 G | 194 | 1552 | S | MTS8M 3440 G | 430 | 3440 | S |
| MTS8M 920 G | 115 | 920 | S | MTS8M 1600 G | 200 | 1600 | S | MTS8M 3680 G | 460 | 3680 | S |
| MTS8M 928 G | 116 | 928 | S | MTS8M 1640 G | 205 | 1640 | S | MTS8M 3720 G | 465 | 3720 | S |
| MTS8M 944 G | 118 | 944 | S | MTS8M 1648 G | 206 | 1648 | S | MTS8M 3904 G | 488 | 3904 | S |
| MTS8M 952 G | 119 | 952 | S | MTS8M 1680 G | 210 | 1680 | S | MTS8M 3928 G | 491 | 3928 | S |
| MTS8M 960 G | 120 | 960 | S | MTS8M 1696 G | 212 | 1696 | S | MTS8M 4400 G | 550 | 4400 | S |
| MTS8M 976 G | 122 | 976 | S | MTS8M 1728 G | 216 | 1728 | S | | | | |
| MTS8M 1000 G | 125 | 1000 | S | MTS8M 1760 G | 220 | 1760 | S | | | | |
| MTS8M 1024 G | 128 | 1024 | S | MTS8M 1776 G | 222 | 1776 | S | | | | |
| MTS8M 1040 G | 130 | 1040 | S | MTS8M 1792 G | 224 | 1792 | S | | | | |
| MTS8M 1056 G | 132 | 1056 | S | MTS8M 1800 G | 225 | 1800 | S | | | | |
| MTS8M 1080 G | 135 | 1080 | S | MTS8M 1816 G | 227 | 1816 | S | | | | |
| MTS8M 1120 G | 140 | 1120 | S | MTS8M 1832 G | 229 | 1832 | S | | | | |
| MTS8M 1128 G | 141 | 1128 | S | MTS8M 1880 G | 235 | 1880 | S | | | | |
| MTS8M 1136 G | 142 | 1136 | S | MTS8M 1912 G | 239 | 1912 | S | | | | |
| MTS8M 1152 G | 144 | 1152 | S | MTS8M 1960 G | 245 | 1960 | S | | | | |
| MTS8M 1160 G | 145 | 1160 | S | MTS8M 2000 G | 250 | 2000 | S | | | | |
| MTS8M 1184 G | 148 | 1184 | S | MTS8M 2040 G | 255 | 2040 | S | | | | |
| MTS8M 1200 G | 150 | 1200 | S | MTS8M 2048 G | 256 | 2048 | S | | | | |
| MTS8M 1216 G | 152 | 1216 | S | MTS8M 2064 G | 258 | 2064 | S | | | | |

### MTS14M(Pitch 14mm)

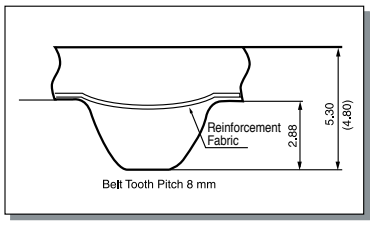
| Nominal length | Number of teeth | Pitch Length (mm) | Manufacturable Size |
|---|---|---|---|
| MTS14M 1008 G | 72 | 1008 | S |
| MTS14M 1120 G | 80 | 1120 | S |
| MTS14M 1190 G | 85 | 1190 | S |
| MTS14M 1246 G | 89 | 1246 | S |
| MTS14M 1288 G | 92 | 1288 | S |
| MTS14M 1400 G | 100 | 1400 | S |
| MTS14M 1470 G | 105 | 1470 | S |
| MTS14M 1540 G | 110 | 1540 | S |
| MTS14M 1610 G | 115 | 1610 | S |
| MTS14M 1652 G | 118 | 1652 | S |
| MTS14M 1708 G | 122 | 1708 | S |
| MTS14M 1736 G | 124 | 1736 | S |
| MTS14M 1750 G | 125 | 1750 | S |
| MTS14M 1778 G | 127 | 1778 | S |
| MTS14M 1806 G | 129 | 1806 | S |
| MTS14M 1890 G | 135 | 1890 | S |
| MTS14M 1932 G | 138 | 1932 | S |
| MTS14M 1960 G | 140 | 1960 | S |
| MTS14M 2002 G | 143 | 2002 | S |
| MTS14M 2100 G | 150 | 2100 | S |
| MTS14M 2198 G | 157 | 2198 | S |
| MTS14M 2240 G | 160 | 2240 | S |
| MTS14M 2310 G | 165 | 2310 | S |
| MTS14M 2380 G | 170 | 2380 | S |
| MTS14M 2450 G | 175 | 2450 | S |
| MTS14M 2506 G | 179 | 2506 | S |
| MTS14M 2590 G | 185 | 2590 | S |
| MTS14M 2660 G | 190 | 2660 | S |
| MTS14M 2800 G | 200 | 2800 | S |
| MTS14M 3150 G | 225 | 3150 | S |
| MTS14M 3360 G | 240 | 3360 | S |
| MTS14M 3500 G | 250 | 3500 | S |
| MTS14M 3556 G | 254 | 3556 | S |
| MTS14M 3850 G | 275 | 3850 | S |
| MTS14M 4004 G | 286 | 4004 | S |
| MTS14M 4508 G | 322 | 4508 | S |
| MTS14M 5012 G | 358 | 5012 | S |




# MegaTorque U

# ● MEGA TORQUE U

## Dimensions
- Tooth Shape & Product Code -




Standard Belt Width

| Nominal Width | Belt Width (mm) |
|---|---|
| 150 | 15 |
| 250 | 25 |
| 400 | 40 |
| 600 | 60 |

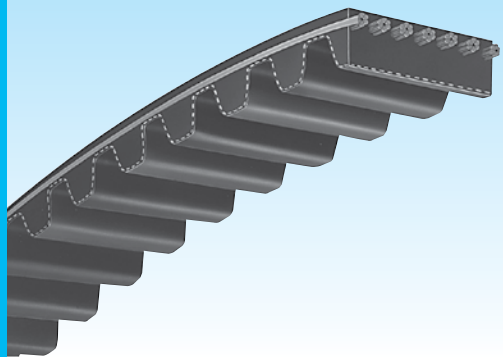
250 MT S8M 1000 U

- 250: Nominal Width (mm) x10
- MT: MEGA TORQUE
- S8M: Belt Type
- 1000: Belt Length (mm)
- U: Polyurethane

## Standard Belt Sizes

| MTS8M(Pitch 8mm) | | | |
|---|---|---|---|
| Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size |
| MTS8M 560 U | 70 | 560 | S |
| MTS8M 600 U | 75 | 600 | S |
| MTS8M 640 U | 80 | 640 | S |
| MTS8M 680 U | 85 | 680 | S |
| MTS8M 720 U | 90 | 720 | S |
| MTS8M 760 U | 95 | 760 | S |
| *MTS8M 800 U | 100 | 800 | S |
| MTS8M 848 U | 106 | 848 | S |
| MTS8M 896 U | 112 | 896 | S |
| MTS8M 960 U | 120 | 960 | S |
| MTS8M 1000 U | 125 | 1000 | S |
| MTS8M 1056 U | 132 | 1056 | S |
| MTS8M 1120 U | 140 | 1120 | S |
| MTS8M 1200 U | 150 | 1200 | S |
| MTS8M 1280 U | 160 | 1280 | S |
| *MTS8M 1328 U | 166 | 1328 | S |
| MTS8M 1360 U | 170 | 1360 | S |
| MTS8M 1440 U | 180 | 1440 | S |
| MTS8M 1520 U | 190 | 1520 | S |
| MTS8M 1600 U | 200 | 1600 | S |
| MTS8M 1696 U | 212 | 1696 | S |
| *MTS8M 1792 U | 224 | 1792 | S |
| *MTS8M 1888 U | 236 | 1888 | S |

● Total thickness of belt sizes with * mark is 4.80mm.



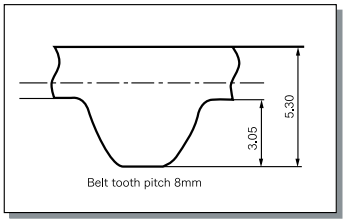
# MegaTorque GII/GII P

## Characteristics and Advantages of Extra High Torque Timing Belt "MEGA TORQUE GII /GIIP"

- **Larger power transmission capacity**
  New cord material minimizes belt stretch and withstands higher power transmission capacity. Power transmission capacity is more than 1.5 times of MEGA TORQUE G.
- **Long operation life**
  Introducing anti-abrasive low friction fabric brings high durability at higher torque. Belt life is 2 times longer than MEGA TORQUE G.
- **Low noise**
  Running noise is reduced by 18% from regular timing belt when you use specially designed pulley and narrower width belt.
  * Specially designed pulley is required.



## ●MTS8M



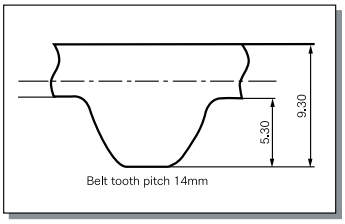

Standard Belt Width

| Belt Width Code | Belt Width (mm) |
|---|---|
| 150 | 15 |
| 250 | 25 |
| 300 | 30 |
| 400 | 40 |
| 600 | 60 |

**250 MT S8M 1680 G2**

- 250: Belt Width (mm)x10
- MT: MEGA TORQUE
- S8M: Belt Type
- 1680: Belt Length (mm)
- G2: G2 Specification

## ●MTS14M




Standard Belt Width

| Belt Width Code | Belt Width (mm) |
|---|---|
| 400 | 40 |
| 600 | 60 |
| 800 | 80 |
| 1000 | 100 |
| 1200 | 120 |

**600 MT S14M 2100 G2P**

- 600: Belt Width (mm)x10
- MT: MEGA TORQUE
- S14M: Belt Type
- 2100: Belt Length (mm)
- G2P: G2P Specification

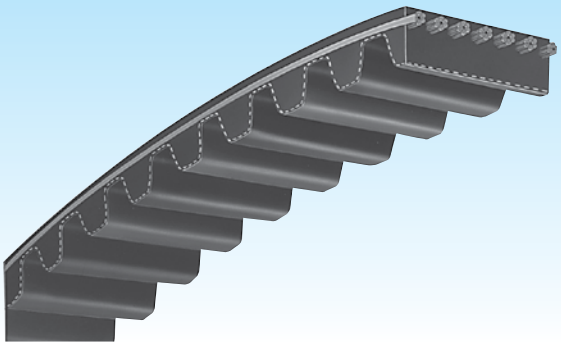
## Standard Belt Sizes

**MTS8M (Pitch 8 mm)**

| Nominal length | Number of Teeth | Pitch Length(mm) | Manufacture Size | Nominal length | Number of Teeth | Pitch Length(mm) | Manufacture Size | Nominal length | Number of Teeth | Pitch Length(mm) | Manufacture Size |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MTS8M 528 G2 | 66 | 528 | S | MTS8M 1152 G2 | 144 | 1152 | S | MTS8M 1816 G2 | 227 | 1816 | S |
| MTS8M 560 G2 | 70 | 560 | S | MTS8M 1160 G2 | 145 | 1160 | S | MTS8M 1832 G2 | 229 | 1832 | S |
| MTS8M 584 G2 | 73 | 584 | S | MTS8M 1184 G2 | 148 | 1184 | S | MTS8M 1880 G2 | 235 | 1880 | S |
| MTS8M 600 G2 | 75 | 600 | S | MTS8M 1200 G2 | 150 | 1200 | S | MTS8M 1912 G2 | 239 | 1912 | S |
| MTS8M 632 G2 | 79 | 632 | S | MTS8M 1216 G2 | 152 | 1216 | S | MTS8M 1960 G2 | 245 | 1960 | S |
| MTS8M 640 G2 | 80 | 640 | S | MTS8M 1224 G2 | 153 | 1224 | S | MTS8M 2000 G2 | 250 | 2000 | S |
| MTS8M 656 G2 | 82 | 656 | S | MTS8M 1248 G2 | 156 | 1248 | S | MTS8M 2040 G2 | 255 | 2040 | S |
| MTS8M 712 G2 | 89 | 712 | S | MTS8M 1256 G2 | 157 | 1256 | S | MTS8M 2048 G2 | 256 | 2048 | S |
| MTS8M 720 G2 | 90 | 720 | S | MTS8M 1280 G2 | 160 | 1280 | S | MTS8M 2064 G2 | 258 | 2064 | S |
| MTS8M 760 G2 | 95 | 760 | S | MTS8M 1296 G2 | 162 | 1296 | S | MTS8M 2104 G2 | 263 | 2104 | S |
| MTS8M 800 G2 | 100 | 800 | S | MTS8M 1304 G2 | 163 | 1304 | S | MTS8M 2120 G2 | 265 | 2120 | S |
| MTS8M 824 G2 | 103 | 824 | S | MTS8M 1312 G2 | 164 | 1312 | S | MTS8M 2160 G2 | 270 | 2160 | S |
| MTS8M 840 G2 | 105 | 840 | S | MTS8M 1320 G2 | 165 | 1320 | S | MTS8M 2240 G2 | 280 | 2240 | S |
| MTS8M 848 G2 | 106 | 848 | S | MTS8M 1352 G2 | 169 | 1352 | S | MTS8M 2272 G2 | 284 | 2272 | S |
| MTS8M 856 G2 | 107 | 856 | S | MTS8M 1360 G2 | 170 | 1360 | S | MTS8M 2304 G2 | 288 | 2304 | S |
| MTS8M 880 G2 | 110 | 880 | S | MTS8M 1384 G2 | 173 | 1384 | S | MTS8M 2376 G2 | 297 | 2376 | S |
| MTS8M 896 G2 | 112 | 896 | S | MTS8M 1400 G2 | 175 | 1400 | S | MTS8M 2400 G2 | 300 | 2400 | S |
| MTS8M 912 G2 | 114 | 912 | S | MTS8M 1424 G2 | 178 | 1424 | S | MTS8M 2496 G2 | 312 | 2496 | S |
| MTS8M 920 G2 | 115 | 920 | S | MTS8M 1440 G2 | 180 | 1440 | S | MTS8M 2600 G2 | 325 | 2600 | S |
| MTS8M 928 G2 | 116 | 928 | S | MTS8M 1480 G2 | 185 | 1480 | S | MTS8M 2800 G2 | 350 | 2800 | S |
| MTS8M 944 G2 | 118 | 944 | S | MTS8M 1488 G2 | 186 | 1488 | S | MTS8M 2920 G2 | 365 | 2920 | S |
| MTS8M 952 G2 | 119 | 952 | S | MTS8M 1520 G2 | 190 | 1520 | S | MTS8M 2944 G2 | 368 | 2944 | S |
| MTS8M 960 G2 | 120 | 960 | S | MTS8M 1552 G2 | 194 | 1552 | S | MTS8M 3048 G2 | 381 | 3048 | S |
| MTS8M 976 G2 | 122 | 976 | S | MTS8M 1600 G2 | 200 | 1600 | S | MTS8M 3200 G2 | 400 | 3200 | S |
| MTS8M 984 G2 | 123 | 984 | S | MTS8M 1640 G2 | 205 | 1640 | S | MTS8M 3248 G2 | 406 | 3248 | S |
| MTS8M 1000 G2 | 125 | 1000 | S | MTS8M 1648 G2 | 206 | 1648 | S | MTS8M 3272 G2 | 409 | 3272 | S |
| MTS8M 1024 G2 | 128 | 1024 | S | MTS8M 1680 G2 | 210 | 1680 | S | MTS8M 3440 G2 | 430 | 3440 | S |
| MTS8M 1040 G2 | 130 | 1040 | S | MTS8M 1696 G2 | 212 | 1696 | S | MTS8M 3680 G2 | 460 | 3680 | S |
| MTS8M 1056 G2 | 132 | 1056 | S | MTS8M 1728 G2 | 216 | 1728 | S | MTS8M 3720 G2 | 465 | 3720 | S |
| MTS8M 1080 G2 | 135 | 1080 | S | MTS8M 1760 G2 | 220 | 1760 | S | MTS8M 3928 G2 | 491 | 3928 | S |
| MTS8M 1120 G2 | 140 | 1120 | S | MTS8M 1776 G2 | 222 | 1776 | S | MTS8M 3904 G2 | 488 | 3904 | S |
| MTS8M 1128 G2 | 141 | 1128 | S | MTS8M 1792 G2 | 224 | 1792 | S | MTS8M 4400 G2 | 550 | 4400 | S |
| MTS8M 1136 G2 | 142 | 1136 | S | MTS8M 1800 G2 | 225 | 1800 | S | | | | |

**MTS14M (Pitch 14 mm)**

| Nominal length | Number of Teeth | Pitch Length(mm) | Manufacture Size | Nominal length | Number of Teeth | Pitch Length(mm) | Manufacture Size | Nominal length | Number of Teeth | Pitch Length(mm) | Manufacture Size |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MTS14M 1008 G2 | 72 | 1008 | S | MTS14M 1778 G2 | 127 | 1778 | S | MTS14M 2590 G2 | 185 | 2590 | S |
| MTS14M 1120 G2 | 80 | 1120 | S | MTS14M 1806 G2 | 129 | 1806 | S | MTS14M 2660 G2 | 190 | 2660 | S |
| MTS14M 1190 G2 | 85 | 1190 | S | MTS14M 1890 G2 | 135 | 1890 | S | MTS14M 2800 G2 | 200 | 2800 | S |
| MTS14M 1246 G2 | 89 | 1246 | S | MTS14M 1932 G2 | 138 | 1932 | S | MTS14M 3150 G2 | 225 | 3150 | S |
| MTS14M 1288 G2 | 92 | 1288 | S | MTS14M 1960 G2 | 140 | 1960 | S | MTS14M 3360 G2 | 240 | 3360 | S |
| MTS14M 1400 G2 | 100 | 1400 | S | MTS14M 2002 G2 | 143 | 2002 | S | MTS14M 3500 G2 | 250 | 3500 | S |
| MTS14M 1470 G2 | 105 | 1470 | S | MTS14M 2100 G2 | 150 | 2100 | S | MTS14M 3556 G2 | 254 | 3556 | S |
| MTS14M 1540 G2 | 110 | 1540 | S | MTS14M 2198 G2 | 157 | 2198 | S | MTS14M 3850 G2 | 275 | 3850 | S |
| MTS14M 1610 G2 | 115 | 1610 | S | MTS14M 2240 G2 | 160 | 2240 | S | MTS14M 4004 G2 | 286 | 4004 | S |
| MTS14M 1652 G2 | 118 | 1652 | S | MTS14M 2310 G2 | 165 | 2310 | S | MTS14M 4508 G2 | 322 | 4508 | S |
| MTS14M 1708 G2 | 122 | 1708 | S | MTS14M 2380 G2 | 170 | 2380 | S | MTS14M 5012 G2 | 358 | 5012 | S |
| MTS14M 1736 G2 | 124 | 1736 | S | MTS14M 2450 G2 | 175 | 2450 | S | | | | |
| MTS14M 1750 G2 | 125 | 1750 | S | MTS14M 2506 G2 | 179 | 2506 | S | | | | |



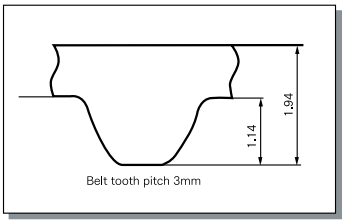
# MegaTorque EX

## Characteristics and advantages of High Precision Positioning Timing Belt "MEGA TORQUE EX"

- **High Jumping resistance**
  By introducing high modulus cord, belt jumping torque extremely increased thus it prevents belt jumping against sudden acceleration and deceleration.
- **High damping characteristic**
  Improvement in damping characteristics using super high modulus cord. By shortening time to stop belt vibration, made more accurate positioning efficiency.
- **High precision of positioning repeatability**
  Less stretch of the belt provides high accuracy of positioning repeatability. Belt positioning efficiency and repeatability was extremely improved by using special pulley for minimum backlash.



## ●MTS3M



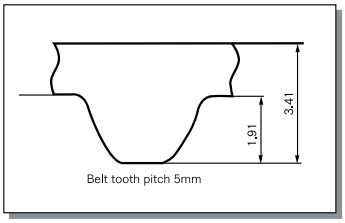

Standard Belt Width

| Belt Width Code | Belt Width (mm) |
|---|---|
| 60 | 6 |
| 100 | 10 |
| 150 | 15 |

100 MT S3M 450 EX

Belt Width (mm)x10 | MEGA TORQUE | Belt Type | Belt Length (mm) | EX Specification

## ●MTS5M




Standard Belt Width

| Belt Width Code | Belt Width (mm) |
|---|---|
| 100 | 10 |
| 150 | 15 |
| 250 | 25 |

100 MT S5M 600 EX

Belt Width (mm)x10 | MEGA TORQUE | Belt Type | Belt Length (mm) | EX Specification

## Standard Belt Sizes

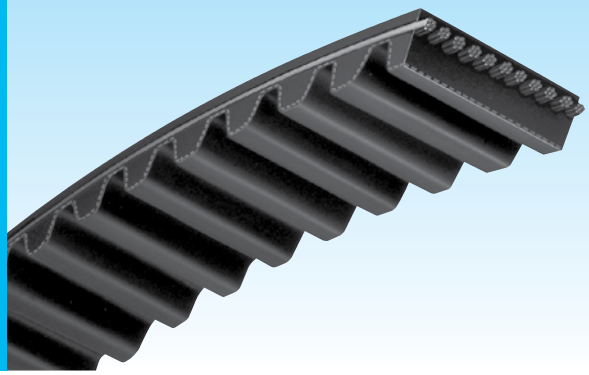
**MTS3M (Pitch 3 mm)**

| Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size |
|---|---|---|---|
| MTS3M 240 EX | 80 | 240 | S |
| MTS3M 270 EX | 90 | 270 | S |
| MTS3M 300 EX | 100 | 300 | S |
| MTS3M 324 EX | 108 | 324 | S |
| MTS3M 330 EX | 110 | 330 | S |
| MTS3M 360 EX | 120 | 360 | S |
| MTS3M 390 EX | 130 | 390 | S |
| MTS3M 420 EX | 140 | 420 | S |
| MTS3M 450 EX | 150 | 450 | S |
| MTS3M 480 EX | 160 | 480 | S |
| MTS3M 510 EX | 170 | 510 | S |
| MTS3M 540 EX | 180 | 540 | S |
| MTS3M 570 EX | 190 | 570 | S |
| MTS3M 588 EX | 196 | 588 | S |
| MTS3M 600 EX | 200 | 600 | S |
| MTS3M 660 EX | 220 | 660 | S |
| MTS3M 720 EX | 240 | 720 | S |
| MTS3M 780 EX | 260 | 780 | S |
| MTS3M 1035 EX | 345 | 1035 | S |
| MTS3M 1521 EX | 507 | 1521 | S |
| MTS3M 1788 EX | 596 | 1788 | S |
| MTS3M 2538 EX | 846 | 2538 | S |

## Standard Belt Sizes

**MTS5M (Pitch 5 mm)**

| Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size |
|---|---|---|---|
| MTS5M 275 EX | 55 | 275 | S |
| MTS5M 300 EX | 60 | 300 | S |
| MTS5M 325 EX | 65 | 325 | S |
| MTS5M 350 EX | 70 | 350 | S |
| MTS5M 400 EX | 80 | 400 | S |
| MTS5M 435 EX | 87 | 435 | S |
| MTS5M 450 EX | 90 | 450 | S |
| MTS5M 500 EX | 100 | 500 | S |
| MTS5M 525 EX | 105 | 525 | S |
| MTS5M 550 EX | 110 | 550 | S |
| MTS5M 575 EX | 115 | 575 | S |
| MTS5M 600 EX | 120 | 600 | S |
| MTS5M 650 EX | 130 | 650 | S |
| MTS5M 690 EX | 138 | 690 | S |
| MTS5M 700 EX | 140 | 700 | S |
| MTS5M 720 EX | 144 | 720 | S |
| MTS5M 750 EX | 150 | 750 | S |
| MTS5M 800 EX | 160 | 800 | S |
| MTS5M 850 EX | 170 | 850 | S |
| MTS5M 880 EX | 176 | 880 | S |
| MTS5M 900 EX | 180 | 900 | S |
| MTS5M 950 EX | 190 | 950 | S |
| MTS5M 1000 EX | 200 | 1000 | S |
| MTS5M 1780 EX | 356 | 1780 | S |
| MTS5M 3835 EX | 767 | 3835 | S |



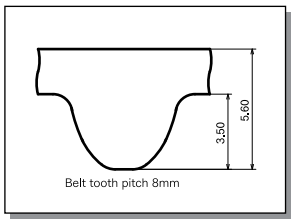
# GigaTorque GX

- Introducing high modulus but high flexibility carbon cord, this belt shows high tensile strength and high flexibility.
- You may expect this belt to minimize space, weight and noise of machinery and equipment by applying narrower belt width compared to regular timing belt.
- This belt can be applied for the applicability of chain drive system.



## Dimensions
- Tooth Shape & Product Code -

### ●G8M



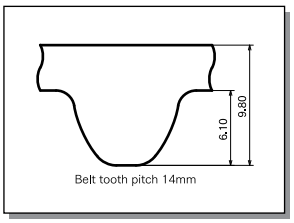

G8M Standard Belt Width

| Belt Width(mm) | 12 | 21 | 36 | 62 |
|---|---|---|---|---|
| Belt Width Code | 120 | 210 | 360 | 620 |

**360 G8M 2400 GX**

- 360: Nominal Width (mm×10)
- G8M: Belt Type
- 2400: Nominal Length (mm)
- GX: GX Spec.

### ●G14M




G14M Standard Belt Width

| Belt Width(mm) | 20 | 37 | 68 | 90 | 125 |
|---|---|---|---|---|---|
| Belt Width Code | 200 | 370 | 680 | 900 | 1250 |

**370 G14M 2100 GX**

- 370: Nominal Width (mm×10)
- G14M: Belt Type
- 2100: Nominal Length (mm)
- GX: GX Spec.

## Standard Belt Sizes

**G8M**

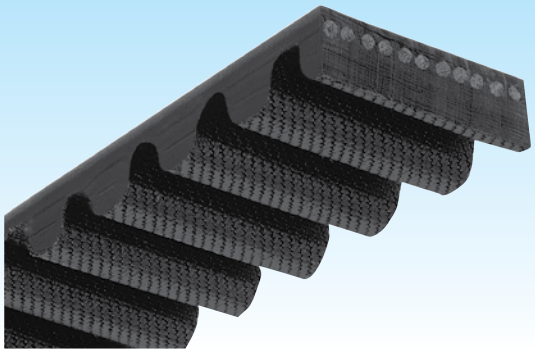
| Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size |
|---|---|---|---|
| G8M 640 | 80 | 640 | S |
| G8M 720 | 90 | 720 | S |
| G8M 800 | 100 | 800 | S |
| G8M 880 | 110 | 880 | S |
| G8M 896 | 112 | 896 | S |
| G8M 960 | 120 | 960 | S |
| G8M 1000 | 125 | 1000 | S |
| G8M 1040 | 130 | 1040 | S |
| G8M 1120 | 140 | 1120 | S |
| G8M 1200 | 150 | 1200 | S |
| G8M 1224 | 153 | 1224 | S |
| G8M 1280 | 160 | 1280 | S |
| G8M 1440 | 180 | 1440 | S |
| G8M 1600 | 200 | 1600 | S |
| G8M 1672 | 209 | 1672 | S |
| G8M 1760 | 220 | 1760 | S |
| G8M 1792 | 224 | 1792 | S |
| G8M 1800 | 225 | 1800 | S |
| G8M 1912 | 239 | 1912 | S |
| G8M 2000 | 250 | 2000 | S |
| G8M 2104 | 263 | 2104 | S |
| G8M 2200 | 275 | 2200 | S |
| G8M 2240 | 280 | 2240 | S |
| G8M 2400 | 300 | 2400 | S |
| G8M 2520 | 315 | 2520 | S |
| G8M 2600 | 325 | 2600 | S |
| G8M 2800 | 350 | 2800 | S |
| G8M 2840 | 355 | 2840 | S |
| G8M 3048 | 381 | 3048 | S |
| G8M 3200 | 400 | 3200 | S |
| G8M 3280 | 410 | 3280 | S |
| G8M 3600 | 450 | 3600 | S |
| G8M 4000 | 500 | 4000 | S |
| G8M 4400 | 550 | 4400 | S |
| G8M 4480 | 560 | 4480 | S |

- S = Single-sided
- Some sizes may not be in stock. Please contact us for the stock status before placing an order.

## Standard Belt Sizes

**G14M**

| Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size |
|---|---|---|---|
| G14M 994 | 71 | 994 | S |
| G14M 1120 | 80 | 1120 | S |
| G14M 1190 | 85 | 1190 | S |
| G14M 1260 | 90 | 1260 | S |
| G14M 1400 | 100 | 1400 | S |
| G14M 1568 | 112 | 1568 | S |
| G14M 1610 | 115 | 1610 | S |
| G14M 1750 | 125 | 1750 | S |
| G14M 1890 | 135 | 1890 | S |
| G14M 1960 | 140 | 1960 | S |
| G14M 2002 | 143 | 2002 | S |
| G14M 2100 | 150 | 2100 | S |
| G14M 2240 | 160 | 2240 | S |
| G14M 2310 | 165 | 2310 | S |
| G14M 2380 | 170 | 2380 | S |
| G14M 2450 | 175 | 2450 | S |
| G14M 2520 | 180 | 2520 | S |
| G14M 2590 | 185 | 2590 | S |
| G14M 2660 | 190 | 2660 | S |
| G14M 2800 | 200 | 2800 | S |
| G14M 3136 | 224 | 3136 | S |
| G14M 3304 | 236 | 3304 | S |
| G14M 3360 | 240 | 3360 | S |
| G14M 3500 | 250 | 3500 | S |
| G14M 3850 | 275 | 3850 | S |
| G14M 3920 | 280 | 3920 | S |
| G14M 4326 | 309 | 4326 | S |
| G14M 4410 | 315 | 4410 | S |



# H Series Timing Belt

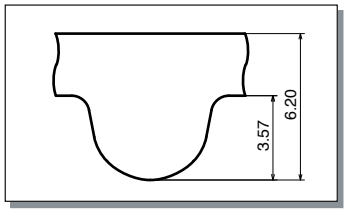
**Round shape belt teeth enable the distribution of load stress uniformly over the entire belt tooth. Since the belt tooth engages with the pulley groove without any interference, stress concentration at the root of the belt tooth can be eliminated. This belt can be used as an alternative for chains and gears with advantages such as :**

- High power transmission capacity
- Long operation life
- Quiet operation
- Cost-efficiency



## Dimensions
- Tooth Shape & Product Code -

### ●H8M



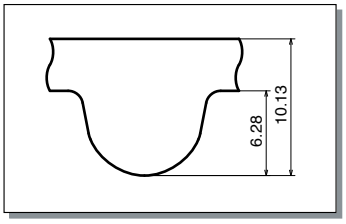

The above mentioned shapes and figures are only for reference.

H8M Standard Belt Width

| Belt Width (mm) | 20.0 | 30.0 | 50.0 | 85.0 |
|---|---|---|---|---|
| Belt Width Code | 20 | 30 | 50 | 85 |

800 — Belt Pitch Length
H8M — Belt Type
30 — Belt Width

### ●H14M




H14M Standard Belt Width

| Belt Width (mm) | 40.0 | 55.0 | 85.0 | 115.0 |
|---|---|---|---|---|
| Belt Width Code | 40 | 55 | 85 | 115 |

1610 — Belt Pitch Length
H14M — Belt Type
40 — Belt Width

## Standard Belt Sizes

**H8M (Pitch 8 mm)**

| Nominal length | Number of Teeth | Pitch Length(mm) | Manufacturable Size | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size |
|---|---|---|---|---|---|---|---|
| 424 H8M | 53 | 424 | S | 1248 H8M | 156 | 1248 | S · D |
| 480 H8M | 60 | 480 | S | 1280 H8M | 160 | 1280 | S · D |
| 536 H8M | 67 | 536 | S · D | 1304 H8M | 163 | 1304 | S · D |
| 560 H8M | 70 | 560 | S · D | 1320 H8M | 165 | 1320 | S · D |
| 592 H8M | 74 | 592 | S · D | 1360 H8M | 170 | 1360 | S · D |
| 600 H8M | 75 | 600 | S · D | 1392 H8M | 174 | 1392 | S · D |
| 624 H8M | 78 | 624 | S · D | 1400 H8M | 175 | 1400 | S · D |
| 632 H8M | 79 | 632 | S · D | 1424 H8M | 178 | 1424 | S · D |
| 640 H8M | 80 | 640 | S · D | 1432 H8M | 179 | 1432 | S · D |
| 656 H8M | 82 | 656 | S · D | 1440 H8M | 180 | 1440 | S · D |
| 680 H8M | 85 | 680 | S · D | 1480 H8M | 185 | 1480 | S · D |
| 720 H8M | 90 | 720 | S · D | 1520 H8M | 190 | 1520 | S · D |
| 760 H8M | 95 | 760 | S · D | 1600 H8M | 200 | 1600 | S · D |
| 776 H8M | 97 | 776 | S · D | 1680 H8M | 210 | 1680 | S · D |
| 800 H8M | 100 | 800 | S · D | 1696 H8M | 212 | 1696 | S · D |
| 840 H8M | 105 | 840 | S · D | 1728 H8M | 216 | 1728 | S · D |
| 856 H8M | 107 | 856 | S · D | 1760 H8M | 220 | 1760 | S · D |
| 880 H8M | 110 | 880 | S · D | 1800 H8M | 225 | 1800 | S · D |
| 896 H8M | 112 | 896 | S · D | 1896 H8M | 237 | 1896 | S · D |
| 912 H8M | 114 | 912 | S · D | 1904 H8M | 238 | 1904 | S · D |
| 920 H8M | 115 | 920 | S · D | 1936 H8M | 242 | 1936 | S · D |
| 936 H8M | 117 | 936 | S · D | 2000 H8M | 250 | 2000 | S · D |
| 960 H8M | 120 | 960 | S · D | 2080 H8M | 260 | 2080 | S · D |
| 968 H8M | 121 | 968 | S · D | 2104 H8M | 263 | 2104 | S · D |
| 1000 H8M | 125 | 1000 | S · D | 2160 H8M | 270 | 2160 | S · D |
| 1040 H8M | 130 | 1040 | S · D | 2240 H8M | 280 | 2240 | S · D |
| 1056 H8M | 132 | 1056 | S · D | 2272 H8M | 284 | 2272 | S · D |
| 1064 H8M | 133 | 1064 | S · D | 2400 H8M | 300 | 2400 | S · D |
| 1080 H8M | 135 | 1080 | S · D | 2504 H8M | 313 | 2504 | S · D |
| 1120 H8M | 140 | 1120 | S · D | 2600 H8M | 325 | 2600 | S · D |
| 1128 H8M | 141 | 1128 | S · D | 2800 H8M | 350 | 2800 | S · D |
| 1152 H8M | 144 | 1152 | S · D | 3048 H8M | 381 | 3048 | S · D |
| 1160 H8M | 145 | 1160 | S · D | 3200 H8M | 400 | 3200 | S · D |
| 1200 H8M | 150 | 1200 | S · D | 3280 H8M | 410 | 3280 | S · D |
| 1224 H8M | 153 | 1224 | S · D | 3600 H8M | 450 | 3600 | S · D |

- S = Single-sided D = Double timing belt
- The design procedure and the defined drive capacity of single-sided timing belts are applied to the equivalent double-sided timing belts.
- Some sizes may not be in stock. Please contact us for the stock status before placing an order.

## Standard Belt Sizes

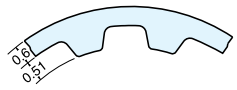
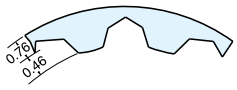
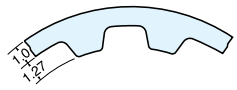
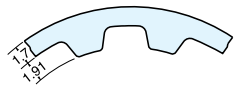
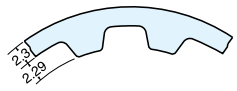
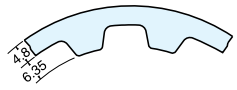
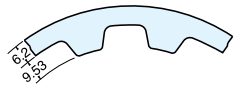
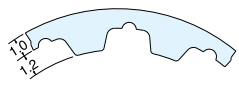
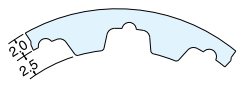
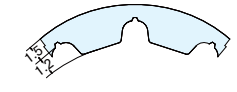
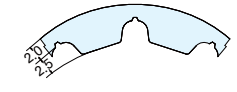
**H14M (Pitch 14 mm)**

| Nominal length | Number of teeth | Pitch Length(mm) |
|---|---|---|
| 784 H14M | 56 | 784 |
| 826 H14M | 59 | 826 |
| 924 H14M | 66 | 924 |
| 966 H14M | 69 | 966 |
| 1148 H14M | 82 | 1148 |
| 1190 H14M | 85 | 1190 |
| 1344 H14M | 96 | 1344 |
| 1400 H14M | 100 | 1400 |
| 1456 H14M | 104 | 1456 |
| 1512 H14M | 108 | 1512 |
| 1540 H14M | 110 | 1540 |
| 1568 H14M | 112 | 1568 |
| 1610 H14M | 115 | 1610 |
| 1638 H14M | 117 | 1638 |
| 1652 H14M | 118 | 1652 |
| 1680 H14M | 120 | 1680 |
| 1736 H14M | 124 | 1736 |
| 1778 H14M | 127 | 1778 |
| 1890 H14M | 125 | 1890 |
| 1932 H14M | 138 | 1932 |
| 1946 H14M | 139 | 1946 |
| 2002 H14M | 143 | 2002 |
| 2100 H14M | 150 | 2100 |
| 2198 H14M | 157 | 2198 |
| 2310 H14M | 165 | 2310 |
| 2450 H14M | 175 | 2450 |
| 2590 H14M | 185 | 2590 |
| 2940 H14M | 210 | 2940 |
| 3150 H14M | 225 | 3150 |
| 3500 H14M | 250 | 3500 |
| 4578 H14M | 327 | 4578 |

- Some sizes may not be in stock. Please contact us for the stock status before placing an order.

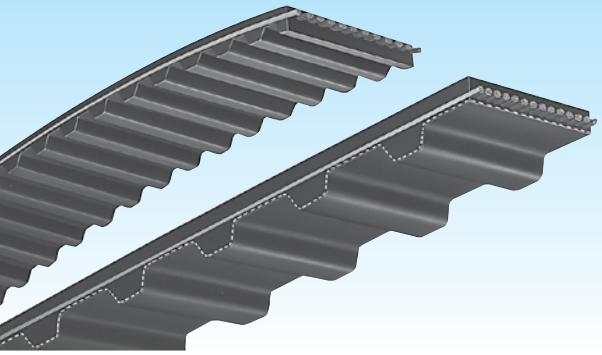
# Trapezoidal Tooth Timing Belt

## Belt Type, Dimensions & Product Code

| Belt Type | Standard Dimensions | Standard Width | | Product Code | Minimum Pulley Size*1 | | Applications |
|---|---|---|---|---|---|---|---|
| | | Code | Width(mm) | | Pulley Diameter(mm) | Number of teeth | |
| MXL (DMXL) GB |  | 3.2<br>4.8<br>6.4<br>9.5<br>12.7 | 3.2<br>4.8<br>6.4<br>9.5<br>12.7 | 125 (D) MXL 6.4<br>Number of Teeth / Double Type / Belt Type / Belt Width(mm) | 6.47 | 10 | Home sewing machine, typewriter, ATM, coin changer, cash register, printing machine, facsimile, measurement equipment, ticket machine, camera, paper feeder, printer, CPU peripherals, card reader, fish sonar finder, medical measurement equipment, radio-controlled model, audio player, VTR, editing equipment |
| T80 U |  | 3.2<br>4.8<br>6.4<br>8.0<br>9.5 | 3.2<br>4.8<br>6.4<br>8.0<br>9.5 | 125 T80 6.4<br>Number of Teeth / Belt Type / Belt Width(mm) | 6.47 | 10 | Printer, copier, car antenna, projector |
| XL GB・U (DXL) GB |  | 025<br>031<br>037<br>050 | 6.4<br>7.9<br>9.5<br>12.7 | 120 (D) XL 037<br>Belt Length (inch)×10 / Double Type / Belt Type / Belt Width (inch)×100 | 16.17 | 10 | Home sewing machine, line printer, medical bed, electrical shaver, auto door, copier, massage machine, editing machine, ticket machine, mower, food processor, calculator, fish sonar finder, blood pump, home meat slicer |
| L G・U (DL) G |  | 050<br>075<br>100<br>150 | 12.7<br>19.1<br>25.4<br>38.1 | 510 (D) L 100<br>Belt Length (inch)×10 / Double Type / Belt Type / Belt Width (inch)×100 | 36.38 | 12 | Vending machine, wiper, packing machine, quenching machine, lift, ice crusher, industrial drier, automated golf cart, computer, copier, plastic lens polishing machine, food processing machine, seaweed collector |
| H (DH) G |  | 075<br>100<br>150<br>200<br>300 | 19.1<br>25.4<br>38.1<br>50.8<br>76.2 | 510 (D) H 100<br>Belt Length (inch)×10 / Double Type / Belt Type / Belt Width (inch)×100 | 56.60 | 14 | Small milling machine, mower, power generator, compressor, scrap chopper, hole finishing machine, drilling machine, glass bottle making machine, food processing machines, rope coiler, roll coater, mill roll, woodworking machinery |
| XH G |  | 200<br>300<br>400<br>500<br>600 | 50.8<br>76.2<br>101.6<br>127.0<br>152.4 | 1120 XH 300<br>Belt Length (inch)×10 / Belt Type / Belt Width (inch)×100 | 127.34 | 18 | Saw mill, cutting machine, cutter, mixer, pump, welder, centrifuge, drilling machine, oscillating mill, lathe, wool loom, paper manufacuring machine, textile machine |
| XXH G |  | 200<br>300<br>400<br>500<br>600 | 50.8<br>76.2<br>101.6<br>127.0<br>152.4 | 1200 XXH 300<br>Belt Length (inch)×10 / Belt Type / Belt Width (inch)×100 | 181.92 | 18 | Blower, high pressure pump, change gear, rod mill, compressor, NC lathe, vibrator, mixer, abrasive boring machine |
| T5 (DT5) U |  | 05<br>10<br>15<br>20 | 5.0<br>10.0<br>15.0<br>20.0 | (D) T5 – 20 – 100<br>Double Type / Belt Type / Belt Width(mm) / Number of Teeth | 19.10 | 12 | Data writer, facsimile, sewing machine |
| T10 (DT10) U |  | 15<br>20<br>25<br>30<br>40<br>50 | 15.0<br>20.0<br>25.0<br>30.0<br>40.0<br>50.0 | (D) T10 – 20 – 100<br>Double Type / Belt Type / Belt Width(mm) / Number of Teeth | 44.56 | 14 | Packaging machine, card reader, textile machine, paper manufacturing machine, NC lathe, conveyor |
| AT5 U |  | 10<br>20<br>30 | 10.0<br>20.0<br>30.0 | AT5 – 20 – 975<br>Belt Type / Belt Width(mm) / Belt Length(mm) | 19.10 | 12 | Machine tools, pumps, textile machinery |
| AT10 U |  | 10<br>20<br>30 | 10.0<br>20.0<br>30.0 | AT10 – 20 – 1280<br>Belt Type / Belt Width(mm) / Belt Length(mm) | 47.75 | 15 | Construction machines, pumps, paper-making machines, compressors, textile machinery, sanding machines, machine tools, roller-table conveyor drives |

●GB : Bare Back Rubber Timing Belt ●G : RubberTiming Belt ●U : Polyurethane Timing Belt

(Note) 1. Maximum transmission power varies depending on belt width and operating speed with the same belt.
The values in above table are for your reference. Please use correct values from relevant design catalog when you design.
2. For G (rubber) type, use heat resistant or oil resistant specification when the belts are used in high temperature (up to 120 °C) or where oil may contaminate the belts.



# Timing Belt G

**This synchronous transmission belt eliminates the problems of chains and gears.
Extra small pitch type fits well with precision equipments and information devices.**

- Thin, lightweight and superior flexibility of this belt allows compact design application.
- Enables efficient high speed power transmission
- Low noise operation compared to chain/gear use
- Cost-efficient
- Maintenance-free
- Standard belt can be used in temperature range between -30°C and +90°C

## Standard Belt Sizes

| Belt Type | MXL | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tooth Pitch | 2.032(mm) | | | | | | | | | | | | | | | |
| Code(width) | 3.2(3.2mm) 4.8(4.8mm) 6.4(6.4mm) 9.5(9.5mm) 12.7(12.7mm) | | | | | | | | | | | | | | | |
| Size | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB |
| | 34 MXL | 34 | 69.09 | S | 110 MXL | 110 | 223.52 | S | 226 MXL | 226 | 459.23 | S · D | 424 MXL | 424 | 861.57 | S · D |
| | 35 MXL | 35 | 71.12 | S | 112 MXL | 112 | 227.58 | S | 227 MXL | 227 | 461.26 | S · D | 435 MXL | 435 | 883.92 | S · D |
| | 40 MXL | 40 | 81.28 | S | 114 MXL | 114 | 231.65 | S | 228 MXL | 228 | 463.30 | S · D | 436 MXL | 436 | 885.95 | S · D |
| | 41 MXL | 41 | 83.31 | S | 115 MXL | 115 | 233.68 | S | 230 MXL | 230 | 467.36 | S · D | 438 MXL | 438 | 890.02 | S · D |
| | 45 MXL | 45 | 91.44 | S | 118 MXL | 118 | 239.78 | S | 232 MXL | 232 | 471.42 | S · D | 448 MXL | 448 | 910.34 | S · D |
| | 46 MXL | 46 | 93.47 | S | 120 MXL | 120 | 243.84 | S | 236 MXL | 236 | 479.55 | S · D | 453 MXL | 453 | 920.50 | S · D |
| | 48 MXL | 48 | 97.54 | S | 121 MXL | 121 | 245.87 | S | 239 MXL | 239 | 485.65 | S · D | 464 MXL | 464 | 942.85 | S · D |
| | 49 MXL | 49 | 99.57 | S | 122 MXL | 122 | 247.90 | S | 240 MXL | 240 | 487.68 | S · D | 475 MXL | 475 | 965.20 | S · D |
| | 50 MXL | 50 | 101.60 | S | 123 MXL | 123 | 249.94 | S | 245 MXL | 245 | 497.84 | S · D | 477 MXL | 477 | 969.26 | S · D |
| | 52 MXL | 52 | 105.66 | S | 125 MXL | 125 | 254.00 | S | 248 MXL | 248 | 503.94 | S · D | 478 MXL | 478 | 971.30 | S · D |
| | 53 MXL | 53 | 107.70 | S | 126 MXL | 126 | 256.03 | S | 250 MXL | 250 | 508.00 | S · D | 487 MXL | 487 | 989.58 | S · D |
| | 54 MXL | 54 | 109.73 | S | 127 MXL | 127 | 258.06 | S | 256 MXL | 256 | 520.19 | S · D | 498 MXL | 498 | 1011.94 | S · D |
| | 55 MXL | 55 | 111.76 | S | 128 MXL | 128 | 260.10 | S | 260 MXL | 260 | 528.32 | S · D | 500 MXL | 500 | 1016.00 | S · D |
| | 56 MXL | 56 | 113.79 | S | 129 MXL | 129 | 262.13 | S | 262 MXL | 262 | 532.38 | S · D | 503 MXL | 503 | 1022.10 | S · D |
| | 57 MXL | 57 | 115.82 | S | 130 MXL | 130 | 264.16 | S | 265 MXL | 265 | 538.48 | S · D | 507 MXL | 507 | 1030.22 | S · D |
| | 59 MXL | 59 | 119.89 | S | 131 MXL | 131 | 266.19 | S | 270 MXL | 270 | 548.64 | S · D | 515 MXL | 515 | 1046.48 | S · D |
| | 60 MXL | 60 | 121.92 | S | 132 MXL | 132 | 268.22 | S | 273 MXL | 273 | 554.74 | S · D | 516 MXL | 516 | 1048.51 | S · D |
| | 61 MXL | 61 | 123.95 | S | 134 MXL | 134 | 272.29 | S | 275 MXL | 275 | 558.80 | S · D | 520 MXL | 520 | 1056.64 | S · D |
| | 63 MXL | 63 | 128.02 | S | 135 MXL | 135 | 274.32 | S | 278 MXL | 278 | 564.90 | S · D | 525 MXL | 525 | 1066.80 | S · D |
| | 65 MXL | 65 | 132.08 | S | 138 MXL | 138 | 280.42 | S | 280 MXL | 280 | 568.96 | S · D | 535 MXL | 535 | 1087.12 | S · D |
| | 66 MXL | 66 | 134.11 | S | 140 MXL | 140 | 284.48 | S | 281 MXL | 281 | 570.99 | S · D | 537 MXL | 537 | 1091.18 | S · D |
| | 67 MXL | 67 | 136.14 | S | 142 MXL | 142 | 288.54 | S | 285 MXL | 285 | 579.12 | S · D | 548 MXL | 548 | 1113.54 | S |
| | 68 MXL | 68 | 138.18 | S | 144 MXL | 144 | 292.61 | S | 288 MXL | 288 | 585.22 | S · D | 550 MXL | 550 | 1117.60 | S · D |
| | 70 MXL | 70 | 142.24 | S | 145 MXL | 145 | 294.64 | S · D | 290 MXL | 290 | 589.28 | S · D | 569 MXL | 569 | 1156.21 | S · D |
| | 71 MXL | 71 | 144.27 | S | 146 MXL | 146 | 296.67 | S · D | 295 MXL | 295 | 599.44 | S · D | 591 MXL | 591 | 1200.91 | S · D |
| | 72 MXL | 72 | 146.30 | S | 147 MXL | 147 | 298.70 | S · D | 297 MXL | 297 | 603.50 | S · D | 650 MXL | 650 | 1320.80 | S · D |
| | 73 MXL | 73 | 148.34 | S | 148 MXL | 148 | 300.74 | S · D | 300 MXL | 300 | 609.60 | S · D | 705 MXL | 705 | 1432.56 | S · D |
| | 74 MXL | 74 | 150.37 | S | 150 MXL | 150 | 304.80 | S · D | 305 MXL | 305 | 619.76 | S · D | 772 MXL | 772 | 1568.70 | S · D |
| | 75 MXL | 75 | 152.40 | S | 152 MXL | 152 | 308.86 | S · D | 310 MXL | 310 | 629.92 | S · D | 1369 MXL | 1369 | 2781.81 | S |
| | 76 MXL | 76 | 154.43 | S | 154 MXL | 154 | 312.93 | S · D | 312 MXL | 312 | 633.98 | S · D | | | | |
| | 77 MXL | 77 | 156.46 | S | 155 MXL | 155 | 314.96 | S · D | 315 MXL | 315 | 640.08 | S · D | | | | |
| | 78 MXL | 78 | 158.50 | S | 156 MXL | 156 | 316.99 | S · D | 318 MXL | 318 | 646.18 | S · D | | | | |
| | 79 MXL | 79 | 160.53 | S | 158 MXL | 158 | 321.06 | S · D | 320 MXL | 320 | 650.24 | S · D | | | | |
| | 80 MXL | 80 | 162.56 | S | 160 MXL | 160 | 325.12 | S · D | 324 MXL | 324 | 658.37 | S · D | | | | |
| | 81 MXL | 81 | 164.59 | S | 162 MXL | 162 | 329.18 | S · D | 330 MXL | 330 | 670.56 | S · D | | | | |
| | 82 MXL | 82 | 166.62 | S | 165 MXL | 165 | 335.28 | S · D | 332 MXL | 332 | 674.62 | S · D | | | | |
| | 83 MXL | 83 | 168.66 | S | 170 MXL | 170 | 345.44 | S · D | 334 MXL | 334 | 678.69 | S · D | | | | |
| | 85 MXL | 85 | 172.72 | S | 171 MXL | 171 | 347.47 | S · D | 336 MXL | 336 | 682.75 | S · D | | | | |
| | 86 MXL | 86 | 174.75 | S | 175 MXL | 175 | 355.60 | S · D | 337 MXL | 337 | 684.78 | S · D | | | | |
| | 87 MXL | 87 | 176.78 | S | 180 MXL | 180 | 365.76 | S · D | 338 MXL | 338 | 686.82 | S · D | | | | |
| | 88 MXL | 88 | 178.82 | S | 184 MXL | 184 | 373.89 | S · D | 339 MXL | 339 | 688.85 | S · D | | | | |
| | 89 MXL | 89 | 180.85 | S | 185 MXL | 185 | 375.92 | S · D | 344 MXL | 344 | 699.01 | S · D | | | | |
| | 90 MXL | 90 | 182.88 | S | 186 MXL | 186 | 377.95 | S · D | 347 MXL | 347 | 705.10 | S · D | | | | |
| | 91 MXL | 91 | 184.91 | S | 187 MXL | 187 | 379.98 | S · D | 348 MXL | 348 | 707.14 | S · D | | | | |
| | 92 MXL | 92 | 186.94 | S | 188 MXL | 188 | 382.02 | S · D | 350 MXL | 350 | 711.20 | S · D | | | | |
| | 93 MXL | 93 | 188.98 | S | 190 MXL | 190 | 386.08 | S · D | 355 MXL | 355 | 721.36 | S · D | | | | |
| | 94 MXL | 94 | 191.01 | S | 192 MXL | 192 | 390.14 | S · D | 359 MXL | 359 | 729.49 | S · D | | | | |
| | 95 MXL | 95 | 193.04 | S | 194 MXL | 194 | 394.21 | S · D | 364 MXL | 364 | 739.65 | S · D | | | | |
| | 96 MXL | 96 | 195.07 | S | 195 MXL | 195 | 396.24 | S · D | 365 MXL | 365 | 741.68 | S · D | | | | |
| | 97 MXL | 97 | 197.10 | S | 198 MXL | 198 | 402.34 | S · D | 367 MXL | 367 | 745.74 | S · D | | | | |
| | 98 MXL | 98 | 199.14 | S | 200 MXL | 200 | 406.40 | S · D | 372 MXL | 372 | 755.90 | S · D | | | | |
| | 100 MXL | 100 | 203.20 | S | 203 MXL | 203 | 412.50 | S · D | 380 MXL | 380 | 772.16 | S · D | | | | |
| | 101 MXL | 101 | 205.23 | S | 205 MXL | 205 | 416.56 | S · D | 386 MXL | 386 | 784.35 | S · D | | | | |
| | 102 MXL | 102 | 207.26 | S | 210 MXL | 210 | 426.72 | S · D | 397 MXL | 397 | 806.70 | S · D | | | | |
| | 103 MXL | 103 | 209.30 | S | 212 MXL | 212 | 430.78 | S · D | 400 MXL | 400 | 812.80 | S · D | | | | |
| | 104 MXL | 104 | 211.33 | S | 219 MXL | 219 | 445.01 | S · D | 405 MXL | 405 | 822.96 | S · D | | | | |
| | 105 MXL | 105 | 213.36 | S | 220 MXL | 220 | 447.04 | S · D | 411 MXL | 411 | 835.15 | S · D | | | | |
| | 106 MXL | 106 | 215.39 | S | 221 MXL | 221 | 449.07 | S · D | 415 MXL | 415 | 843.28 | S · D | | | | |
| | 108 MXL | 108 | 219.46 | S | 222 MXL | 222 | 451.10 | S · D | 419 MXL | 419 | 851.41 | S · D | | | | |
| | 109 MXL | 109 | 221.49 | S | 224 MXL | 224 | 455.17 | S · D | 420 MXL | 420 | 853.44 | S · D | | | | |

- S = Single-sided D = Double timing belt
- The design procedure and the defined drive capacity of single-sided timing belts are applied to the equivalent double-sided timing belts.
- Some sizes may not be in stock. Please contact us for the stock status before placing an order.

# Timing Belt G



## Standard Belt Sizes

| Belt Type | XL | | | | L | | | | H | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tooth Pitch | 5.08(mm) | | | | 9.525(mm) | | | | 12.7(mm) | | | |
| Code(width) | 025(6.4mm) 031(7.9mm) 037(9.5mm) 050(12.7mm) | | | | 050(12.7mm) 075(19.1mm) 100(25.4mm) 150(38.1mm) | | | | 075(19.1mm) 100(25.4mm) 150(38.1mm) 200(50.8mm) 300(76.2mm) | | | |
| Size | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB Type | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size GB Type | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size G Type | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size G Type |
| | 60 XL | 30 | 152.40 | S | 210 XL | 105 | 533.40 | S · D | 109 L | 29 | 276.23 | S | 225 H | 45 | 571.50 | S |
| | 64 XL | 32 | 162.56 | S | 212 XL | 106 | 538.48 | S · D | 124 L | 33 | 314.33 | S | 230 H | 46 | 584.20 | S |
| | 68 XL | 34 | 172.72 | S | 216 XL | 108 | 548.64 | S · D | 135 L | 36 | 342.90 | S | 240 H | 48 | 609.60 | S · D |
| | 70 XL | 35 | 177.80 | S | 218 XL | 109 | 553.72 | S · D | 150 L | 40 | 381.00 | S | 245 H | 49 | 622.30 | S · D |
| | 74 XL | 37 | 187.96 | S | 220 XL | 110 | 558.80 | S · D | 165 L | 44 | 419.10 | S | 255 H | 51 | 647.70 | S · D |
| | 76 XL | 38 | 193.04 | S | 228 XL | 114 | 579.12 | S · D | 173 L | 46 | 438.15 | S | 270 H | 54 | 685.80 | S · D |
| | 78 XL | 39 | 198.12 | S | 230 XL | 115 | 584.20 | S · D | 180 L | 48 | 457.20 | S | 280 H | 56 | 711.20 | S · D |
| | 80 XL | 40 | 203.20 | S | 234 XL | 117 | 594.36 | S · D | 187 L | 50 | 476.25 | S · D | 300 H | 60 | 762.00 | S · D |
| | 82 XL | 41 | 208.28 | S | 236 XL | 118 | 599.44 | S · D | 210 L | 56 | 533.40 | S · D | 310 H | 62 | 787.40 | S · D |
| | 84 XL | 42 | 213.36 | S | 240 XL | 120 | 609.60 | S · D | 217 L | 58 | 552.45 | S · D | 315 H | 63 | 800.10 | S · D |
| | 86 XL | 43 | 218.44 | S | 250 XL | 125 | 635.00 | S · D | 225 L | 60 | 571.50 | S · D | 320 H | 64 | 812.80 | S · D |
| | 88 XL | 44 | 223.52 | S | 254 XL | 127 | 645.16 | S · D | 232 L | 62 | 590.55 | S · D | 330 H | 66 | 838.20 | S · D |
| | 90 XL | 45 | 228.60 | S | 260 XL | 130 | 660.40 | S · D | 240 L | 64 | 609.60 | S · D | 340 H | 68 | 863.60 | S · D |
| | 92 XL | 46 | 233.68 | S | 270 XL | 135 | 685.80 | S · D | 255 L | 68 | 647.70 | S · D | 350 H | 70 | 889.00 | S · D |
| | 94 XL | 47 | 238.76 | S | 276 XL | 138 | 701.04 | S · D | 265 L | 71 | 676.28 | S · D | 360 H | 72 | 914.40 | S · D |
| | 96 XL | 48 | 243.84 | S | 280 XL | 140 | 711.20 | S · D | 270 L | 72 | 685.80 | S · D | 370 H | 74 | 939.80 | S · D |
| | 98 XL | 49 | 248.92 | S | 282 XL | 141 | 716.28 | S · D | 277 L | 74 | 704.85 | S · D | 375 H | 75 | 952.50 | S · D |
| | 100 XL | 50 | 254.00 | S | 290 XL | 145 | 736.60 | S · D | 285 L | 76 | 723.90 | S · D | 390 H | 78 | 990.60 | S · D |
| | 102 XL | 51 | 259.08 | S | 300 XL | 150 | 762.00 | S · D | 300 L | 80 | 762.00 | S · D | 400 H | 80 | 1016.00 | S · D |
| | 104 XL | 52 | 264.16 | S | 310 XL | 155 | 787.40 | S · D | 315 L | 84 | 800.10 | S · D | 410 H | 82 | 1041.40 | S · D |
| | 106 XL | 53 | 269.24 | S | 314 XL | 157 | 797.56 | S · D | 320 L | 85 | 809.63 | S · D | 420 H | 84 | 1066.80 | S · D |
| | 108 XL | 54 | 274.32 | S | 320 XL | 160 | 812.80 | S · D | 322 L | 86 | 819.15 | S · D | 430 H | 86 | 1092.20 | S · D |
| | 110 XL | 55 | 279.40 | S | 330 XL | 165 | 838.20 | S · D | 334 L | 89 | 847.73 | S · D | 450 H | 90 | 1143.00 | S · D |
| | 112 XL | 56 | 284.48 | S | 332 XL | 166 | 843.28 | S · D | 337 L | 90 | 857.25 | S · D | 465 H | 93 | 1181.10 | S · D |
| | 114 XL | 57 | 289.56 | S | 340 XL | 170 | 863.60 | S · D | 345 L | 92 | 876.30 | S · D | 480 H | 96 | 1219.20 | S · D |
| | 116 XL | 58 | 294.64 | S | 348 XL | 174 | 883.92 | S · D | 360 L | 96 | 914.40 | S · D | 490 H | 98 | 1244.60 | S · D |
| | 118 XL | 59 | 299.72 | S | 352 XL | 176 | 894.08 | S · D | 367 L | 98 | 933.45 | S · D | 510 H | 102 | 1295.40 | S · D |
| | 120 XL | 60 | 304.80 | S | 360 XL | 180 | 914.40 | S · D | 375 L | 100 | 952.50 | S · D | 530 H | 106 | 1346.20 | S · D |
| | 122 XL | 61 | 309.88 | S | 364 XL | 182 | 924.56 | S · D | 382 L | 102 | 971.55 | S · D | 540 H | 108 | 1371.60 | S · D |
| | 124 XL | 62 | 314.96 | S | 370 XL | 185 | 939.80 | S · D | 390 L | 104 | 990.60 | S · D | 560 H | 112 | 1422.40 | S · D |
| | 126 XL | 63 | 320.04 | S | 376 XL | 188 | 955.04 | S · D | 394 L | 105 | 1000.13 | S · D | 565 H | 113 | 1435.10 | S · D |
| | 128 XL | 64 | 325.12 | S | 380 XL | 190 | 965.20 | S · D | 398 L | 106 | 1009.65 | S · D | 570 H | 114 | 1447.80 | S · D |
| | 130 XL | 65 | 330.20 | S | 384 XL | 192 | 975.36 | S · D | 420 L | 112 | 1066.80 | S · D | 580 H | 116 | 1473.20 | S · D |
| | 134 XL | 67 | 340.36 | S | 388 XL | 194 | 985.52 | S · D | 427 L | 114 | 1085.85 | S · D | 600 H | 120 | 1524.00 | S · D |
| | 136 XL | 68 | 345.44 | S | 390 XL | 195 | 990.60 | S · D | 435 L | 116 | 1104.90 | S · D | 605 H | 121 | 1536.70 | S · D |
| | 138 XL | 69 | 350.52 | S | 396 XL | 198 | 1005.84 | S · D | 450 L | 120 | 1143.00 | S · D | 625 H | 125 | 1587.50 | S · D |
| | 140 XL | 70 | 355.60 | S | 414 XL | 207 | 1051.56 | S · D | 454 L | 121 | 1152.53 | S · D | 630 H | 126 | 1600.20 | S · D |
| | 142 XL | 71 | 360.68 | S | 424 XL | 212 | 1076.96 | S · D | 480 L | 128 | 1219.20 | S · D | 640 H | 128 | 1625.60 | S · D |
| | 144 XL | 72 | 365.76 | S | 450 XL | 225 | 1143.00 | S · D | 510 L | 136 | 1295.40 | S · D | 650 H | 130 | 1651.00 | S · D |
| | 146 XL | 73 | 370.84 | S | 460 XL | 230 | 1168.40 | S · D | 525 L | 140 | 1333.50 | S · D | 660 H | 132 | 1676.40 | S · D |
| | 148 XL | 74 | 375.92 | S | 478 XL | 239 | 1214.12 | S · D | 540 L | 144 | 1371.60 | S · D | 680 H | 136 | 1727.20 | S · D |
| | 150 XL | 75 | 381.00 | S · D | 480 XL | 240 | 1219.20 | S · D | 548 L | 146 | 1390.65 | S · D | 700 H | 140 | 1778.00 | S · D |
| | 152 XL | 76 | 386.08 | S · D | 490 XL | 245 | 1244.60 | S · D | 581 L | 155 | 1476.38 | S · D | 730 H | 146 | 1854.20 | S · D |
| | 154 XL | 77 | 391.16 | S · D | 522 XL | 261 | 1325.88 | S | 600 L | 160 | 1524.00 | S · D | 750 H | 150 | 1905.00 | S · D |
| | 156 XL | 78 | 396.24 | S · D | 540 XL | 270 | 1371.60 | S | 630 L | 168 | 1600.20 | S · D | 770 H | 154 | 1955.80 | S · D |
| | 158 XL | 79 | 401.32 | S · D | 552 XL | 276 | 1402.08 | S | 653 L | 174 | 1657.35 | S · D | 800 H | 160 | 2032.00 | S · D |
| | 160 XL | 80 | 406.40 | S · D | 564 XL | 282 | 1432.56 | S | 660 L | 176 | 1676.40 | S · D | 810 H | 162 | 2057.40 | S · D |
| | 162 XL | 81 | 411.48 | S · D | 592 XL | 296 | 1503.68 | S | 697 L | 186 | 1771.65 | S | 840 H | 168 | 2133.60 | S · D |
| | 164 XL | 82 | 416.56 | S · D | 600 XL | 300 | 1524.00 | S | 731 L | 195 | 1857.37 | S | 850 H | 170 | 2159.00 | S · D |
| | 166 XL | 83 | 421.64 | S · D | 616 XL | 308 | 1564.64 | S | 934 L | 249 | 2371.72 | S | 860 H | 172 | 2184.40 | S · D |
| | 168 XL | 84 | 426.72 | S · D | 630 XL | 315 | 1600.20 | S | 1174 L | 313 | 2981.33 | S | 880 H | 176 | 2235.20 | S · D |
| | 170 XL | 85 | 431.80 | S · D | 670 XL | 335 | 1701.80 | S | 1264 L | 337 | 3209.93 | S | 900 H | 180 | 2286.00 | S · D |
| | 172 XL | 86 | 436.88 | S · D | 690 XL | 345 | 1752.60 | S | | | | | 950 H | 190 | 2413.00 | S · D |
| | 174 XL | 87 | 441.96 | S · D | 754 XL | 377 | 1915.16 | S | | | | | 1000 H | 200 | 2540.00 | S · D |
| | 176 XL | 88 | 447.04 | S · D | 828 XL | 414 | 2103.12 | S | | | | | 1020 H | 204 | 2590.80 | S · D |
| | 178 XL | 89 | 452.12 | S · D | 860 XL | 430 | 2184.40 | S | | | | | 1100 H | 220 | 2794.00 | S · D |
| | 180 XL | 90 | 457.20 | S · D | | | | | | | | | 1120 H | 224 | 2844.80 | S · D |
| | 182 XL | 91 | 462.28 | S · D | | | | | | | | | 1130 H | 226 | 2870.20 | S · D |
| | 184 XL | 92 | 467.36 | S · D | | | | | | | | | 1140 H | 228 | 2895.60 | S · D |
| | 186 XL | 93 | 472.44 | S · D | | | | | | | | | 1150 H | 230 | 2921.00 | S · D |
| | 188 XL | 94 | 477.52 | S · D | | | | | | | | | 1160 H | 232 | 2946.40 | S · D |
| | 190 XL | 95 | 482.60 | S · D | | | | | | | | | 1250 H | 250 | 3175.00 | S · D |
| | 192 XL | 96 | 487.68 | S · D | | | | | | | | | 1285 H | 257 | 3263.90 | S · D |
| | 194 XL | 97 | 492.76 | S · D | | | | | | | | | 1325 H | 265 | 3365.50 | S · D |
| | 196 XL | 98 | 497.84 | S · D | | | | | | | | | 1345 H | 269 | 3416.30 | S · D |
| | 198 XL | 99 | 502.92 | S · D | | | | | | | | | 1350 H | 270 | 3429.00 | S · D |
| | 200 XL | 100 | 508.00 | S · D | | | | | | | | | 1360 H | 272 | 3454.40 | S · D |
| | 202 XL | 101 | 513.08 | S · D | | | | | | | | | 1400 H | 280 | 3556.00 | S · D |
| | 204 XL | 102 | 518.16 | S · D | | | | | | | | | 1700 H | 340 | 4318.00 | S · D |
| | 206 XL | 103 | 523.24 | S · D | | | | | | | | | 1765 H | 353 | 4483.10 | S · D |

- S = Single-sided D = Double timing belt
- The design procedure and the defined drive capacity of single-sided timing belts are applied to the equivalent double-sided timing belts.
- Some sizes may not be in stock. Please contact us for the stock status before placing an order.

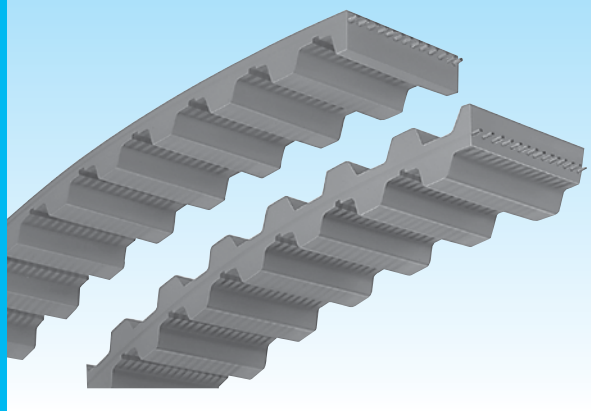
# Timing Belt G



## Standard Belt Sizes

| Belt Type | XH | | | | XXH | | | |
|---|---|---|---|---|---|---|---|---|
| Tooth Pitch | 22.225(mm) | | | | 31.750(mm) | | | |
| Code(width) | 200(50.8mm) 300(76.2mm) 400(101.6mm) 500(127.0mm) 600(152.4mm) | | | | 200(50.8mm) 300(76.2mm) 400(101.6mm) 500(127.0mm) 600(152.4mm) | | | |
| Size | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size (G Type) | Nominal length | Number of teeth | Pitch Length(mm) | Manufacturable Size (G Type) |
| | 463 XH | 53 | 1177.93 | S | 700 XXH | 56 | 1778.00 | S |
| | 507 XH | 58 | 1289.05 | S | 800 XXH | 64 | 2032.00 | S |
| | 560 XH | 64 | 1422.40 | S | 900 XXH | 72 | 2286.00 | S |
| | 630 XH | 72 | 1600.20 | S | 1000 XXH | 80 | 2540.00 | S |
| | 700 XH | 80 | 1778.00 | S | 1200 XXH | 96 | 3048.00 | S |
| | 735 XH | 84 | 1866.90 | S | 1400 XXH | 112 | 3556.00 | S |
| | 770 XH | 88 | 1955.80 | S | 1600 XXH | 128 | 4064.00 | S |
| | 840 XH | 96 | 2133.60 | S | 1800 XXH | 144 | 4572.00 | S |
| | 980 XH | 112 | 2489.20 | S | | | | |
| | 1120 XH | 128 | 2844.80 | S | | | | |
| | 1260 XH | 144 | 3200.40 | S | | | | |
| | 1400 XH | 160 | 3556.00 | S | | | | |
| | 1540 XH | 176 | 3911.60 | S | | | | |
| | 1750 XH | 200 | 4445.00 | S | | | | |

- S = Single-sided
- Some sizes may not be in stock. Please contact us for the stock status before placing an order.



# Timing Belt U

**With its high abrasion resistance and less rubber dust dispersion, polyurethane timing belts are suitable for use in places where clean environments are required.**

- The best for light-duty transmission which requires high precision.
- Suitable for paper feeding use because it does not contaminate contact subject.
- Smooth and quiet operation as it is flexible to fit well in small diameter pulleys.
- Made-to-order system enables manufacture of special form orders.



## Standard Belt Sizes

| Belt Type | T80 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tooth Pitch | 2.032 (mm) | | | | | | | | | | | |
| Code(width) | 3.2 (3.2mm) 4.8 (4.8mm) 6.4 (6.4mm) 9.5 (9.5mm) | | | | | | | | | | | |
| Size | Nominal length | Number of teeth | Pitch Length(mm) | Nominal length | Number of teeth | Pitch Length(mm) | Nominal length | Number of teeth | Pitch Length(mm) | Nominal length | Number of teeth | Pitch Length(mm) |
| | 30 T80 | 30 | 60.96 | 104 T80 | 104 | 211.33 | 220 T80 | 220 | 447.04 | 358 T80 | 358 | 727.46 |
| | 35 T80 | 35 | 71.12 | 105 T80 | 105 | 213.36 | 221 T80 | 221 | 449.07 | 360 T80 | 360 | 731.52 |
| | 40 T80 | 40 | 81.28 | 106 T80 | 106 | 215.39 | 224 T80 | 224 | 455.17 | 370 T80 | 370 | 751.84 |
| | 45 T80 | 45 | 91.44 | 108 T80 | 108 | 219.46 | 225 T80 | 225 | 457.20 | 380 T80 | 380 | 772.16 |
| | 46 T80 | 46 | 93.47 | 110 T80 | 110 | 223.52 | 228 T80 | 228 | 463.30 | 390 T80 | 390 | 792.48 |
| | 48 T80 | 48 | 97.54 | 112 T80 | 112 | 227.58 | 230 T80 | 230 | 467.36 | 397 T80 | 397 | 806.70 |
| | 50 T80 | 50 | 101.60 | 114 T80 | 114 | 231.65 | 232 T80 | 232 | 471.42 | 400 T80 | 400 | 812.80 |
| | 52 T80 | 52 | 105.66 | 115 T80 | 115 | 233.68 | 235 T80 | 235 | 477.52 | 403 T80 | 403 | 818.90 |
| | 53 T80 | 53 | 107.70 | 118 T80 | 118 | 239.78 | 236 T80 | 236 | 479.55 | 420 T80 | 420 | 853.44 |
| | 54 T80 | 54 | 109.73 | 120 T80 | 120 | 243.84 | 239 T80 | 239 | 485.65 | 473 T80 | 473 | 961.14 |
| | 55 T80 | 55 | 111.76 | 121 T80 | 121 | 245.87 | 240 T80 | 240 | 487.68 | 474 T80 | 474 | 963.17 |
| | 56 T80 | 56 | 113.79 | 122 T80 | 122 | 247.90 | 245 T80 | 245 | 497.84 | 500 T80 | 500 | 1016.00 |
| | 57 T80 | 57 | 115.82 | 123 T80 | 123 | 249.94 | 248 T80 | 248 | 503.94 | 515 T80 | 515 | 1046.48 |
| | 59 T80 | 59 | 119.89 | 124 T80 | 124 | 251.97 | 249 T80 | 249 | 505.97 | 550 T80 | 550 | 1117.60 |
| | 60 T80 | 60 | 121.92 | 125 T80 | 125 | 254.00 | 250 T80 | 250 | 508.00 | 916 T80 | 916 | 1861.31 |
| | 63 T80 | 63 | 128.02 | 126 T80 | 126 | 256.03 | 255 T80 | 255 | 518.16 | | | |
| | 65 T80 | 65 | 132.08 | 130 T80 | 130 | 264.16 | 256 T80 | 256 | 520.19 | | | |
| | 67 T80 | 67 | 136.14 | 131 T80 | 131 | 266.19 | 260 T80 | 260 | 528.32 | | | |
| | 68 T80 | 68 | 138.18 | 132 T80 | 132 | 268.22 | 262 T80 | 262 | 532.38 | | | |
| | 70 T80 | 70 | 142.24 | 135 T80 | 135 | 274.32 | 265 T80 | 265 | 538.48 | | | |
| | 71 T80 | 71 | 144.27 | 140 T80 | 140 | 284.48 | 270 T80 | 270 | 548.64 | | | |
| | 72 T80 | 72 | 146.30 | 142 T80 | 142 | 288.54 | 275 T80 | 275 | 558.80 | | | |
| | 73 T80 | 73 | 148.34 | 144 T80 | 144 | 292.61 | 277 T80 | 277 | 562.86 | | | |
| | 74 T80 | 74 | 150.37 | 145 T80 | 145 | 294.64 | 279 T80 | 279 | 566.93 | | | |
| | 75 T80 | 75 | 152.40 | 148 T80 | 148 | 300.74 | 280 T80 | 280 | 568.96 | | | |
| | 77 T80 | 77 | 156.46 | 150 T80 | 150 | 304.80 | 285 T80 | 285 | 579.12 | | | |
| | 78 T80 | 78 | 158.50 | 155 T80 | 155 | 314.96 | 288 T80 | 288 | 585.22 | | | |
| | 80 T80 | 80 | 162.56 | 156 T80 | 156 | 316.99 | 290 T80 | 290 | 589.28 | | | |
| | 81 T80 | 81 | 164.59 | 157 T80 | 157 | 319.02 | 295 T80 | 295 | 599.44 | | | |
| | 82 T80 | 82 | 166.62 | 160 T80 | 160 | 325.12 | 296 T80 | 296 | 601.47 | | | |
| | 83 T80 | 83 | 168.66 | 165 T80 | 165 | 335.28 | 300 T80 | 300 | 609.60 | | | |
| | 85 T80 | 85 | 172.72 | 170 T80 | 170 | 345.44 | 304 T80 | 304 | 617.73 | | | |
| | 87 T80 | 87 | 176.78 | 175 T80 | 175 | 355.60 | 310 T80 | 310 | 629.92 | | | |
| | 88 T80 | 88 | 178.82 | 180 T80 | 180 | 365.76 | 312 T80 | 312 | 633.98 | | | |
| | 89 T80 | 89 | 180.85 | 184 T80 | 184 | 373.89 | 315 T80 | 315 | 640.08 | | | |
| | 90 T80 | 90 | 182.88 | 185 T80 | 185 | 375.92 | 318 T80 | 318 | 646.18 | | | |
| | 91 T80 | 91 | 184.91 | 190 T80 | 190 | 386.08 | 320 T80 | 320 | 650.24 | | | |
| | 93 T80 | 93 | 188.98 | 195 T80 | 195 | 396.24 | 324 T80 | 324 | 658.37 | | | |
| | 94 T80 | 94 | 191.01 | 200 T80 | 200 | 406.40 | 330 T80 | 330 | 670.56 | | | |
| | 95 T80 | 95 | 193.04 | 205 T80 | 205 | 416.56 | 336 T80 | 336 | 682.75 | | | |
| | 97 T80 | 97 | 197.10 | 208 T80 | 208 | 422.66 | 340 T80 | 340 | 690.88 | | | |
| | 98 T80 | 98 | 199.14 | 210 T80 | 210 | 426.72 | 341 T80 | 341 | 692.91 | | | |
| | 100 T80 | 100 | 203.20 | 212 T80 | 212 | 430.78 | 344 T80 | 344 | 699.01 | | | |
| | 102 T80 | 102 | 207.26 | 215 T80 | 215 | 436.88 | 350 T80 | 350 | 711.20 | | | |
| | 103 T80 | 103 | 209.30 | 219 T80 | 219 | 445.01 | 355 T80 | 355 | 721.36 | | | |

● This type is usually made-to-order. However, please check for stock availability when placing order.

# Timing Belt U



## Standard Belt Sizes

| Belt Type | XL | | | | | | L | | |
|---|---|---|---|---|---|---|---|---|---|
| Tooth Pitch | 5.08(mm) | | | | | | 9.525 (mm) | | |
| Code(width) | 025(6.4mm) 031 (7.9mm) 037(9.5mm) 050(12.7mm) | | | | | | 050(12.7mm 075(19.1mm) 100(25.4mm) 150(38.1mm) | | |
| Size | Nominal length | Number of teeth | Pitch Length(mm) | Nominal length | Number of teeth | Pitch Length(mm) | Nominal length | Number of teeth | Pitch Length(mm) |
| | 60 XL | 30 | 152.40 | 210 XL | 105 | 533.40 | 124 L | 33 | 314.33 |
| | 64 XL | 32 | 162.56 | 212 XL | 106 | 538.48 | 150 L | 40 | 381.00 |
| | 66 XL | 33 | 167.64 | 220 XL | 110 | 558.80 | 165 L | 44 | 419.10 |
| | 70 XL | 35 | 177.80 | 224 XL | 112 | 568.96 | 173 L | 46 | 438.15 |
| | 76 XL | 38 | 193.04 | 230 XL | 115 | 584.20 | 187 L | 50 | 476.25 |
| | 78 XL | 39 | 198.12 | 240 XL | 120 | 609.60 | 210 L | 56 | 533.40 |
| | 80 XL | 40 | 203.20 | 250 XL | 125 | 635.00 | 225 L | 60 | 571.50 |
| | 84 XL | 42 | 213.36 | 254 XL | 127 | 645.16 | 240 L | 64 | 609.60 |
| | 90 XL | 45 | 228.60 | 260 XL | 130 | 660.40 | 255 L | 68 | 647.70 |
| | 94 XL | 47 | 238.76 | 270 XL | 135 | 685.80 | 270 L | 72 | 685.80 |
| | 100 XL | 50 | 254.00 | 290 XL | 145 | 736.60 | 285 L | 76 | 723.90 |
| | 102 XL | 51 | 259.08 | 300 XL | 150 | 762.00 | 300 L | 80 | 762.00 |
| | 104 XL | 52 | 264.16 | 320 XL | 160 | 812.80 | 304 L | 81 | 771.53 |
| | 106 XL | 53 | 269.24 | 330 XL | 165 | 838.20 | 322 L | 86 | 819.15 |
| | 108 XL | 54 | 274.32 | 340 XL | 170 | 863.60 | 345 L | 92 | 876.30 |
| | 110 XL | 55 | 279.40 | 348 XL | 174 | 883.92 | 367 L | 98 | 933.45 |
| | 114 XL | 57 | 289.56 | 352 XL | 176 | 894.08 | 375 L | 100 | 952.50 |
| | 116 XL | 58 | 294.64 | 360 XL | 180 | 914.40 | 390 L | 104 | 990.60 |
| | 120 XL | 60 | 304.80 | 376 XL | 188 | 955.04 | 420 L | 112 | 1066.80 |
| | 124 XL | 62 | 314.96 | 384 XL | 192 | 975.36 | 427 L | 114 | 1085.85 |
| | 126 XL | 63 | 320.04 | 390 XL | 195 | 990.60 | 450 L | 120 | 1143.00 |
| | 128 XL | 64 | 325.12 | 396 XL | 198 | 1005.84 | 480 L | 128 | 1219.20 |
| | 130 XL | 65 | 330.20 | 414 XL | 207 | 1051.56 | 510 L | 136 | 1295.40 |
| | 136 XL | 68 | 345.44 | 430 XL | 215 | 1092.20 | 525 L | 140 | 1333.50 |
| | 140 XL | 70 | 355.60 | 460 XL | 230 | 1168.40 | 540 L | 144 | 1371.60 |
| | 142 XL | 71 | 360.68 | 480 XL | 240 | 1219.20 | 600 L | 160 | 1524.00 |
| | 146 XL | 73 | 370.84 | 490 XL | 245 | 1244.60 | | | |
| | 148 XL | 74 | 375.92 | 512 XL | 256 | 1300.48 | | | |
| | 150 XL | 75 | 381.00 | 540 XL | 270 | 1371.60 | | | |
| | 152 XL | 76 | 386.08 | 544 XL | 272 | 1381.76 | | | |
| | 154 XL | 77 | 391.16 | 564 XL | 282 | 1432.56 | | | |
| | 160 XL | 80 | 406.40 | 630 XL | 315 | 1600.20 | | | |
| | 166 XL | 83 | 421.64 | 670 XL | 335 | 1701.80 | | | |
| | 168 XL | 84 | 426.72 | 730 XL | 365 | 1854.20 | | | |
| | 170 XL | 85 | 431.80 | 842 XL | 421 | 2138.68 | | | |
| | 176 XL | 88 | 447.04 | | | | | | |
| | 180 XL | 90 | 457.20 | | | | | | |
| | 186 XL | 93 | 472.44 | | | | | | |
| | 190 XL | 95 | 482.60 | | | | | | |
| | 200 XL | 100 | 508.00 | | | | | | |

| T5(DT5) | | | | | | | | | T10(DT10) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.0(mm) | | | | | | | | | 10.0(mm) | | | | | | | | |
| 05(5.0mm) 10(10.0mm) 15(15.0mm) 20(20.0mm) | | | | | | | | | 40(40.0mm) 50(50.0mm) | | | | | | | | |
| Nominal length | Number of teeth | Manufacturable Size (U type) | Nominal length | Number of teeth | Manufacturable Size (U type) | Nominal length | Number of teeth | Manufacturable Size (U type) | Nominal length | Number of teeth | Manufacturable Size (U type) | Nominal length | Number of teeth | Manufacturable Size (U type) | Nominal length | Number of teeth | Manufacturable Size (U type) |
| 33 | 165 | S | 80 | 400 | S · D | 130 | 650 | S · D | 26 | 260 | S | 88 | 880 | S | 135 | 1350 | S · D |
| 37 | 185 | S | 82 | 410 | S · D | 132 | 660 | S | 36 | 360 | D | 89 | 890 | S | 138 | 1380 | S |
| 40 | 200 | S | 84 | 420 | S | 135 | 675 | S | 37 | 370 | S | 90 | 900 | S · D | 139 | 1390 | S |
| 43 | 215 | S | 85 | 425 | S | 138 | 690 | S | 40 | 400 | S | 91 | 910 | S | 140 | 1400 | S · D |
| 44 | 220 | S | 88 | 440 | S | 140 | 700 | S · D | 41 | 410 | S | 92 | 920 | S | 142 | 1420 | S · D |
| 45 | 225 | S | 89 | 445 | S | 144 | 720 | S | 44 | 440 | S | 94 | 940 | S | 144 | 1440 | S |
| 49 | 245 | S | 90 | 450 | S · D | 145 | 725 | S | 45 | 450 | S | 95 | 950 | S | 145 | 1450 | S |
| 50 | 250 | S | 91 | 455 | S | 150 | 750 | S · D | 50 | 500 | S | 96 | 960 | S | 146 | 1460 | S |
| 51 | 255 | S | 92 | 460 | S · D | 156 | 780 | S | 53 | 530 | S · D | 97 | 970 | S | 150 | 1500 | S · D |
| 52 | 260 | S | 95 | 475 | S | 160 | 800 | S · D | 55 | 550 | S | 98 | 980 | S · D | 156 | 1560 | S |
| 54 | 270 | S | 96 | 480 | S · D | 163 | 815 | S · D | 56 | 560 | S | 100 | 1000 | S · D | 160 | 1600 | S · D |
| 55 | 275 | S | 100 | 500 | S · D | 168 | 840 | S | 60 | 600 | S · D | 101 | 1010 | S | 161 | 1610 | S · D |
| 56 | 280 | S | 102 | 510 | S | 170 | 850 | S · D | 61 | 610 | S | 105 | 1050 | S | 170 | 1700 | S · D |
| 59 | 295 | S | 103 | 515 | D | 172 | 860 | S · D | 63 | 630 | S · D | 108 | 1080 | S | 175 | 1750 | S |
| 60 | 300 | S · D | 105 | 525 | S | 180 | 900 | S · D | 65 | 650 | S | 110 | 1100 | S · D | 178 | 1780 | S |
| 61 | 305 | S | 109 | 545 | S | 188 | 940 | S · D | 66 | 660 | S · D | 111 | 1110 | S | 180 | 1800 | S · D |
| 65 | 325 | S | 110 | 550 | S · D | 195 | 975 | S | 69 | 690 | S | 114 | 1140 | S | 188 | 1880 | S · D |
| 66 | 330 | S | 112 | 560 | S | 198 | 990 | S | 70 | 700 | S · D | 115 | 1150 | S | 196 | 1960 | S |
| 68 | 340 | S | 115 | 575 | S | 200 | 1000 | S | 72 | 720 | S · D | 120 | 1200 | S · D | 216 | 2160 | S |
| 70 | 350 | S · D | 118 | 590 | S · D | 215 | 1075 | S | 75 | 750 | S · D | 121 | 1210 | S · D | 220 | 2200 | S |
| 71 | 355 | S | 120 | 600 | S · D | 220 | 1100 | S · D | 78 | 780 | S | 124 | 1240 | S · D | 221 | 2210 | S |
| 72 | 360 | S | 122 | 610 | S | 228 | 1140 | S · D | 80 | 800 | S · D | 125 | 1250 | S · D | 225 | 2250 | S |
| 73 | 365 | S | 124 | 620 | S · D | 243 | 1215 | S | 81 | 810 | S | 130 | 1300 | S · D | | | |
| 75 | 375 | S | 125 | 625 | S | 276 | 1380 | S | 84 | 840 | S · D | 132 | 1320 | S · D | | | |
| 78 | 390 | S | 126 | 630 | S | 288 | 1440 | S | 85 | 850 | S | 135 | 1350 | S · D | | | |

- S = Single-sided D = Double timing belt
- The design procedure and the defined drive capacity of single-sided timing belts are applied to the equivalent double-sided timing belts.
- Some sizes may not be in stock. Please contact us for the stock status before placing an order.

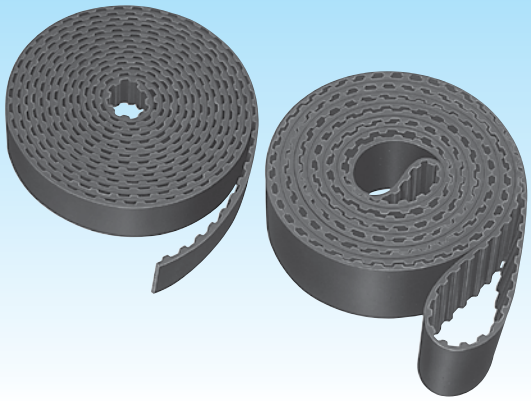
# Timing Belt U



## Standard Belt Sizes

| Belt Type | AT5 | | | AT10 | | |
|---|---|---|---|---|---|---|
| Tooth Pitch | 5.0(mm) | | | 10.0(mm) | | |
| Code(width) | 10(10.0mm) 20(20.0mm) 30(30.0mm) | | | 10(10.0mm) 20(20.0mm) 30(30.0mm) | | |
| Size | Number of teeth | Pitch Length (mm) | Manufacturable Size (U type) | Number of teeth | Pitch Length (mm) | Manufacturable Size (U type) |
| | 60 | 300 | S | 56 | 560 | S |
| | 68 | 340 | S | 66 | 660 | S |
| | 75 | 375 | S | 70 | 700 | S |
| | 78 | 390 | S | 73 | 730 | S |
| | 84 | 420 | S | 78 | 780 | S |
| | 90 | 450 | S | 80 | 800 | S |
| | 100 | 500 | S | 84 | 840 | S |
| | 109 | 545 | S | 89 | 890 | S |
| | 120 | 600 | S | 92 | 920 | S |
| | 122 | 610 | S | 98 | 980 | S |
| | 132 | 660 | S | 105 | 1050 | S |
| | 142 | 710 | S | 108 | 1080 | S |
| | 144 | 720 | S | 110 | 1100 | S |
| | 150 | 750 | S | 115 | 1150 | S |
| | 156 | 780 | S | 120 | 1200 | S |
| | 172 | 860 | S | 121 | 1210 | S |
| | 195 | 975 | S | 125 | 1250 | S |
| | 210 | 1050 | S | 128 | 1280 | S |
| | 300 | 1500 | S | 132 | 1320 | S |
| | | | | 140 | 1400 | S |
| | | | | 148 | 1480 | S |
| | | | | 160 | 1600 | S |
| | | | | 180 | 1800 | S |
| | | | | 186 | 1860 | S |
| | | | | 194 | 1940 | S |

- S = Single-sided
- Some sizes may not be in stock. Please contact us for the stock status before placing an order.



# Long-Span Timing Belt (Open-End & Endless type)

**This belt is for long-span linear drives and light-duty synchronous transmission and transportation.**

● Free design possible as the length can be extended.

## ● Rubber Timing Belt

### Length of Open-End Type

Trapezoidal tooth (MXL, XL, L, H) (Unit: m)

| Type \ Width (mm) / Width(inchx100) | 6.4 | 9.5 | 12.7 | 19.1 | 25.4 | 38.1 |
|---|---|---|---|---|---|---|
| | 025 | 037 | 050 | 075 | 100 | 150 |
| MXL | 67 | 44 | 34 | – | – | – |
| XL | 128 | 86 | 64 | – | – | – |
| L | – | – | 71 | 45 | 33 | – |
| H | – | – | – | 85 | 62 | 40 |

* Order by above unit length.

Curvilinear tooth (S2M,S3M,S5M,S8M,S14M) (Unit: m)

| Type \ Width (mm) | 4 | 6 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |
|---|---|---|---|---|---|---|---|---|---|---|
| S2M | 89 | 58 | 35 | – | – | – | – | – | – | – |
| S3M | – | 110 | 65 | 43 | – | – | – | – | – | – |
| S5M | – | – | 78 | 50 | 87 | 68 | – | – | – | – |
| S8M | – | – | – | 82 | 60 | 48 | 52 | 39 | – | 24 |
| S14M | – | – | – | – | – | – | – | 34 | 27 | – |

* Order by above unit length.

### Example

①Trapezoidal tooth (MXL*, XL, L, H)

OTG 86 XL 037
- OTG: Open-End
- 86: Belt Length (m)
- XL: Belt Type
- 037: Belt Width (inch x100)

*For MXL type, belt width is in mm

②Round tooth (S2M,S3M,S5M,S8M,S14M)

OTG 250 S5M 68
- OTG: Open-End
- 250: Belt Width (mm x10)
- S5M: Belt Type
- 68: Belt Length (m)

### Length of Endless Type

| Belt Type | Belt Width (mm) | | Maximum Belt Length (m) |
|---|---|---|---|
| | Minimum | Maximum | |
| L | 12.7 | 355 | 20 |
| H | 19.1 | 343 | 20 |
| XH | 50.8 | 406 | 20 |
| XXH | 50.8 | 406 | 20 |
| S8M | 19.0 | 342 | 20 |
| S14M | 50.0 | 406 | 20 |

* Allowable tension for endless type timing belt is half of that for ring type timing belt.

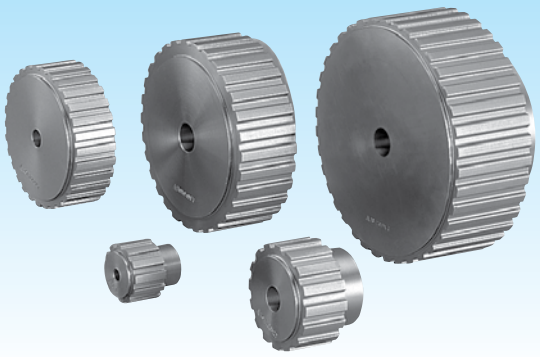
### Example

①Trapezoidal tooth (L, H, XH, XXH)

GLTG 2000 H 300
- GLTG: Endless
- 2000: Belt Length (inch x10)
- H: Belt Type
- 300: Belt Width (inch x100)

②Round tooth (S8M,S14M)

GLTG 400 S8M 5600
- GLTG: Endless
- 400: Belt Width (mm x10)
- S8M: Belt Type
- 5600: Belt Length (mm)



# Timing Pulley

**Timing belt power transmission systems work the best when high-precision belts and precisely processed pulleys smoothly mesh with each other.**

- Cutting with hob cutter enables good power transmission.
- Please feel free to order pulleys with custom material, shape, or additional processing.
  ※ Please use the designated pulley.
- Flange is not sold separately as a single item.



## Standard Pulley Types & Sizes

| Belt Type | MXL-Rod shape | | | | |
|---|---|---|---|---|---|
| Number of Teeth | Length (mm) | Material | OD (mm) | PD (mm) | Product Code |
| 10 | 100 | High-Strength Aluminum Alloy | 5.96 | 6.47 | P10 MXL 100 |
| 12 | | | 7.25 | 7.76 | P12 MXL 100 |
| 13 | | | 7.90 | 8.41 | P13 MXL 100 |
| 14 | | | 8.55 | 9.06 | P14 MXL 100 |
| 15 | | | 9.19 | 9.70 | P15 MXL 100 |
| 16 | | | 9.84 | 10.35 | P16 MXL 100 |
| 17 | | | 10.49 | 11.00 | P17 MXL 100 |
| 18 | | | 11.13 | 11.64 | P18 MXL 100 |
| 19 | | | 11.78 | 12.29 | P19 MXL 100 |
| 20 | | | 12.43 | 12.94 | P20 MXL 100 |
| 21 | | | 13.07 | 13.58 | P21 MXL 100 |
| 22 | | | 13.72 | 14.23 | P22 MXL 100 |
| 23 | | | 14.37 | 14.88 | P23 MXL 100 |
| 24 | | | 15.02 | 15.52 | P24 MXL 100 |
| 25 | | | 15.66 | 16.17 | P25 MXL 100 |
| 26 | | | 16.31 | 16.82 | P26 MXL 100 |
| 27 | | | 16.96 | 17.46 | P27 MXL 100 |
| 28 | | | 17.60 | 18.11 | P28 MXL 100 |
| 30 | | | 18.90 | 19.40 | P30 MXL 100 |
| 32 | | | 20.19 | 20.70 | P32 MXL 100 |
| 34 | | | 21.48 | 21.99 | P34 MXL 100 |
| 36 | | | 22.78 | 23.29 | P36 MXL 100 |
| 38 | | | 24.07 | 24.58 | P38 MXL 100 |
| 40 | | | 25.36 | 25.87 | P40 MXL 100 |
| 42 | | | 26.66 | 27.17 | P42 MXL 100 |
| 44 | | | 27.95 | 28.46 | P44 MXL 100 |
| 48 | | | 30.54 | 31.05 | P48 MXL 100 |
| 50 | | | 31.83 | 32.34 | P50 MXL 100 |
| 52 | | | 33.13 | 33.63 | P52 MXL 100 |
| 54 | | | 34.42 | 34.93 | P54 MXL 100 |
| 56 | | | 35.71 | 36.22 | P56 MXL 100 |
| 60 | | | 38.30 | 38.81 | P60 MXL 100 |
| 64 | | | 40.89 | 41.40 | P64 MXL 100 |
| 70 | | | 44.77 | 45.28 | P70 MXL 100 |
| 72 | | | 46.06 | 46.57 | P72 MXL 100 |
| 80 | | | 51.24 | 51.74 | P80 MXL 100 |
| 84 | | | 53.82 | 54.33 | P84 MXL 100 |
| 96 | | | 61.59 | 62.09 | P96 MXL 100 |
| 100 | | | 64.17 | 64.68 | P100 MXL 100 |
| 120 | | | 77.11 | 77.62 | P120 MXL 100 |

| Belt Type | MXL for Belt Width – 6.4mm | | | | |
|---|---|---|---|---|---|
| Number of Teeth | Pulley Type | Material | OD (mm) | PD (mm) | Product Code |
| 20 | B | High-Strength Aluminum Alloy | 12.43 | 12.94 | P20 MXL 6.4 |
| 21 | B | | 13.07 | 13.58 | P21 MXL 6.4 |
| 22 | B | | 13.72 | 14.23 | P22 MXL 6.4 |
| 23 | B | | 14.37 | 14.88 | P23 MXL 6.4 |
| 24 | B | | 15.02 | 15.52 | P24 MXL 6.4 |
| 25 | B | | 15.66 | 16.17 | P25 MXL 6.4 |
| 26 | B | | 16.31 | 16.82 | P26 MXL 6.4 |
| 27 | B | | 16.96 | 17.46 | P27 MXL 6.4 |
| 28 | B | | 17.60 | 18.11 | P28 MXL 6.4 |
| 30 | B | | 18.90 | 19.40 | P30 MXL 6.4 |
| 32 | B | | 20.19 | 20.70 | P32 MXL 6.4 |
| 36 | B | | 22.78 | 23.29 | P36 MXL 6.4 |
| 40 | B | | 25.36 | 25.87 | P40 MXL 6.4 |
| 48 | B | | 30.54 | 31.05 | P48 MXL 6.4 |
| 60 | B | | 38.30 | 38.81 | P60 MXL 6.4 |
| 72 | B | | 46.06 | 46.57 | P72 MXL 6.4 |
| 84 | B | | 53.82 | 54.33 | P84 MXL 6.4 |
| 96 | B | | 61.59 | 62.09 | P96 MXL 6.4 |
| 120 | B | | 77.11 | 77.62 | P120 MXL 6.4 |

| Belt Type | XL | | | | |
|---|---|---|---|---|---|
| Number of Teeth | Pulley Type | Material | OD (mm) | PD (mm) | Product Code |
| 10 | C | Sintered Material | 15.66 | 16.17 | P10 XL 037 |
| 11 | C | | 17.28 | 17.79 | P11 XL 037 |
| 12 | C | | 18.90 | 19.40 | P12 XL 037 |
| 14 | C | | 22.13 | 22.64 | P14 XL 037 |
| 15 | C | | 23.75 | 24.46 | P15 XL 037 |
| 16 | B | | 25.36 | 25.87 | P16 XL 037 |
| 18 | B | | 28.60 | 29.11 | P18 XL 037 |
| 19 | B | | 30.22 | 30.72 | P19 XL 037 |
| 20 | B | | 31.83 | 32.34 | P20 XL 037 |
| 21 | B | | 33.45 | 33.96 | P21 XL 037 |
| 22 | B | | 35.07 | 35.57 | P22 XL 037 |
| 24 | B | | 38.30 | 38.81 | P24 XL 037 |
| 25 | B | | 39.92 | 40.43 | P25 XL 037 |
| 26 | B | | 41.53 | 42.04 | P26 XL 037 |
| 28 | B | | 44.77 | 45.28 | P28 XL 037 |
| 30 | B | | 48.00 | 48.51 | P30 XL 037 |
| 32 | A·B | Steel | 51.24 | 51.74 | P32 XL 037 |
| 34 | A·B | | 54.47 | 54.98 | P34 XL 037 |
| 36 | A·B | | 57.70 | 58.21 | P36 XL 037 |
| 38 | A·B | | 60.94 | 61.45 | P38 XL 037 |
| 40 | A·B | | 64.17 | 64.68 | P40 XL 037 |
| 42 | A·B | | 67.41 | 67.91 | P42 XL 037 |
| 44 | A·B | | 70.64 | 71.15 | P44 XL 037 |
| 48 | W | Cast Metal | 77.11 | 77.62 | P48 XL 037 |
| 50 | W | | 80.34 | 80.85 | P50 XL 037 |
| 60 | W | | 96.51 | 97.02 | P60 XL 037 |
| 72 | W | | 115.92 | 116.43 | P72 XL 037 |

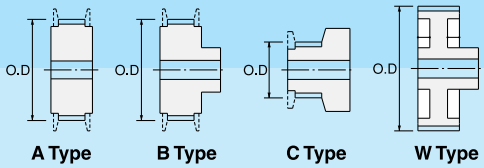
| Belt Type | L | | | | | | |
|---|---|---|---|---|---|---|---|
| Number of Teeth | Pulley Type | Material | OD (mm) | PD (mm) | Product Code | | |
| 10 | A·B | Steel | 29.56 | 30.32 | P10 L 050 | | |
| 12 | A·B | | 35.62 | 36.38 | P12 L 050 | P12 L 075 | |
| 14 | A·B | | 41.68 | 42.45 | P14 L 050 | P14 L 075 | P14 L 100 |
| 15 | A·B | | 44.72 | 45.48 | P15 L 050 | P15 L 075 | P15 L 100 |
| 16 | A·B | | 47.75 | 48.51 | P16 L 050 | P16 L 075 | P16 L 100 |
| 17 | A·B | | 50.78 | 51.54 | P17 L 050 | P17 L 075 | P17 L 100 |
| 18 | A·B | | 53.81 | 54.57 | P18 L 050 | P18 L 075 | P18 L 100 |
| 19 | A·B | | 56.84 | 57.61 | P19 L 050 | P19 L 075 | P19 L 100 |
| 20 | A·B | | 59.88 | 60.64 | P20 L 050 | P20 L 075 | P20 L 100 |
| 21 | A·B | | 62.91 | 63.67 | P21 L 050 | P21 L 075 | P21 L 100 |
| 22 | A·B | | 65.94 | 66.70 | P22 L 050 | P22 L 075 | P22 L 100 |
| 24 | A·B | | 72.00 | 72.77 | P24 L 050 | P24 L 075 | P24 L 100 |
| 25 | A·B | | 75.04 | 75.80 | P25 L 050 | P25 L 075 | P25 L 100 |
| 26 | A·B | | 78.07 | 78.83 | P26 L 050 | P26 L 075 | P26 L 100 |
| 28 | A·B | | 84.13 | 84.89 | P28 L 050 | P28 L 075 | P28 L 100 |
| 30 | A·B | | 90.20 | 90.96 | P30 L 050 | P30 L 075 | P30 L 100 |
| 32 | A·B | | 96.26 | 97.02 | P32 L 050 | P32 L 075 | P32 L 100 |
| 34 | A·B | | 102.32 | 103.08 | P34 L 050 | P34 L 075 | P34 L 100 |
| 36 | A·B | | 108.39 | 109.15 | P36 L 050 | P36 L 075 | P36 L 100 |
| 38 | A·B | | 114.45 | 115.21 | P38 L 050 | P38 L 075 | P38 L 100 |
| 40 | A·B | | 120.51 | 121.28 | P40 L 050 | P40 L 075 | P40 L 100 |
| 44 | A·B | | 132.64 | 133.40 | P44 L 050 | P44 L 075 | P44 L 100 |
| 48 | W | Cast Metal | 144.77 | 145.53 | P48 L 050 | P48 L 075 | P48 L 100 |
| 50 | W | | 150.83 | 151.60 | P50 L 050 | P50 L 075 | P50 L 100 |
| 60 | W | | 181.15 | 181.91 | P60 L 050 | P60 L 075 | P60 L 100 |
| 72 | W | | 217.53 | 218.30 | P72 L 050 | P72 L 075 | P72 L 100 |

# Timing Pulley

## Pulley Product Code

(Example) **P 38 XL 037 B**

- P — Pulley
- 38 — Number of Pulley teeth
- XL — Belt Type
- 037 — Belt Width (inch x 100)
- B — Pulley Type




A Type | B Type | C Type | W Type

Tooth profile for standard pulleys is in-volute shape complying with ISO standards.

## Standard Pulley Types & Sizes

| Belt Type | H | | | | | | |
|---|---|---|---|---|---|---|---|
| Number of Teeth | Pulley Type | Material | OD (mm) | PD (mm) | Product Code | | |
| 14 | A·B | Steel | 55.22 | 56.60 | P14H100 | P14H150 | P14H200 |
| 15 | A·B | | 59.27 | 60.64 | P15H100 | P15H150 | P15H200 |
| 16 | A·B | | 63.31 | 64.68 | P16H100 | P16H150 | P16H200 |
| 18 | A·B | | 71.39 | 72.77 | P18H100 | P18H150 | P18H200 |
| 19 | A·B | | 75.44 | 76.81 | P19H100 | P19H150 | P19H200 |
| 20 | A·B | | 79.48 | 80.85 | P20H100 | P20H150 | P20H200 |
| 21 | A·B | | 83.52 | 84.89 | P21H100 | P21H150 | P21H200 |
| 22 | A·B | | 87.56 | 88.94 | P22H100 | P22H150 | P22H200 |
| 24 | A·B | | 95.65 | 97.02 | P24H100 | P24H150 | P24H200 |
| 25 | A·B | | 99.69 | 101.06 | P25H100 | P25H150 | P25H200 |
| 26 | A·B | | 103.73 | 105.11 | P26H100 | P26H150 | P26H200 |
| 28 | A·B | | 111.82 | 113.19 | P28H100 | P28H150 | P28H200 |
| 30 | A·B | | 119.90 | 121.28 | P30H100 | P30H150 | P30H200 |
| 32 | A·B | | 127.99 | 129.36 | P32H100 | P32H150 | P32H200 |
| 34 | A·B | | 136.07 | 137.45 | P34H100 | P34H150 | P34H200 |
| 36 | A·B | | 144.16 | 145.53 | P36H100 | P36H150 | P36H200 |
| 40 | A·B | | 160.33 | 161.70 | P40H100 | P40H150 | P40H200 |
| 44 | W | Cast Metal | 176.50 | 177.87 | P44H100 | P44H150 | P44H200 |
| 48 | W | | 192.67 | 194.04 | P48H100 | P48H150 | P48H200 |
| 50 | W | | 200.76 | 202.13 | P50H100 | P50H150 | P50H200 |
| 60 | W | | 241.18 | 242.55 | P60H100 | P60H150 | P60H200 |
| 72 | W | | 289.69 | 291.06 | P72H100 | P72H150 | P72H200 |

| Belt Type | T5 | | | | |
|---|---|---|---|---|---|
| Number of Teeth | Pulley Type | Material | OD (mm) | PD (mm) | Product Code |
| 12 | C | Sintered Metal | 18.25 | 19.10 | PT5-10-12 |
| 14 | C | | 21.45 | 22.28 | PT5-10-14 |
| 15 | C | | 23.05 | 23.87 | PT5-10-15 |
| 16 | B | | 24.60 | 25.46 | PT5-10-16 |
| 18 | B | | 27.80 | 28.65 | PT5-10-18 |
| 20 | B | | 31.00 | 31.83 | PT5-10-20 |
| 22 | B | | 34.25 | 35.01 | PT5-10-22 |
| 24 | B | | 37.40 | 38.20 | PT5-10-24 |
| 25 | B | | 39.00 | 39.79 | PT5-10-25 |
| 26 | B | | 40.60 | 41.38 | PT5-10-26 |
| 28 | B | | 43.75 | 44.56 | PT5-10-28 |
| 30 | B | | 46.95 | 47.75 | PT5-10-30 |
| 32 | A·B | Steel | 50.10 | 50.93 | PT5-10-32 |
| 36 | A·B | | 56.45 | 57.30 | PT5-10-36 |
| 40 | A·B | | 62.85 | 63.66 | PT5-10-40 |
| 44 | W | Cast Metal | 69.20 | 70.03 | PT5-10-44 |
| 48 | W | | 75.55 | 76.39 | PT5-10-48 |
| 50 | W | | 78.75 | 79.58 | PT5-10-50 |
| 60 | W | | 94.65 | 95.49 | PT5-10-60 |

| Belt Type | T10 | | | | | |
|---|---|---|---|---|---|---|
| Number of Teeth | Pulley Type | Material | OD (mm) | PD (mm) | Product Code | |
| 12 | A·B | Steel | 36.35 | 38.20 | PT10-15-12 | PT10-25-12 |
| 14 | A·B | | 42.70 | 44.56 | PT10-15-14 | PT10-25-14 |
| 15 | A·B | | 45.90 | 47.75 | PT10-15-15 | PT10-25-15 |
| 16 | A·B | | 49.05 | 50.93 | PT10-15-16 | PT10-25-16 |
| 18 | A·B | | 55.45 | 57.30 | PT10-15-18 | PT10-25-18 |
| 20 | A·B | | 61.80 | 63.66 | PT10-15-20 | PT10-25-20 |
| 22 | A·B | | 68.15 | 70.03 | PT10-15-22 | PT10-25-22 |
| 24 | A·B | | 74.55 | 76.39 | PT10-15-24 | PT10-25-24 |
| 25 | A·B | | 77.70 | 79.58 | PT10-15-25 | PT10-25-25 |
| 26 | A·B | | 80.90 | 82.76 | PT10-15-26 | PT10-25-26 |
| 28 | A·B | | 87.25 | 89.13 | PT10-15-28 | PT10-25-28 |
| 30 | A·B | | 93.65 | 95.49 | PT10-15-30 | PT10-25-30 |
| 32 | A·B | | 100.00 | 101.86 | PT10-15-32 | PT10-25-32 |
| 36 | A·B | | 112.75 | 114.59 | PT10-15-36 | PT10-25-36 |
| 40 | A·B | | 125.45 | 127.32 | PT10-15-40 | PT10-25-40 |
| 44 | W | Cast Metal | 138.20 | 140.06 | PT10-15-44 | PT10-25-44 |
| 48 | W | | 150.95 | 152.79 | PT10-15-48 | PT10-25-48 |
| 50 | W | | 157.30 | 159.15 | PT10-15-50 | PT10-25-50 |
| 60 | W | | 189.10 | 190.99 | PT10-15-60 | PT10-25-60 |

# Ⅱ Frictional Forced Power Transmission Belt


Classical V-belts

Wrapped Type / Raw Edge Cogged Type ····· P36-39

MAXSTAR WEDGE V-belts

Wrapped Type / Raw Edge Cogged Type ····· P40

SUPER WEDGE II ····· P41

Narrow V-belts

Wrapped Type/Raw Edge Cogged Type ····· P42

MAXSTAR POWER Narrow ····· P43

SUPER VS (Variable Speed Belt) ····· P44

MAXSTAR WEDGE Pulley / MB Bushing ····· P45, 46

RIBSTAR belt G (Rubber V-ribbed Belt) ····· P47

RIBSTAR Belt U (Polyurethane V-ribbed Belt) ····· P48

RIBSTAR Pulley (V-ribbed Pulley) ····· P49

FLEXSTAR Belt ····· P50

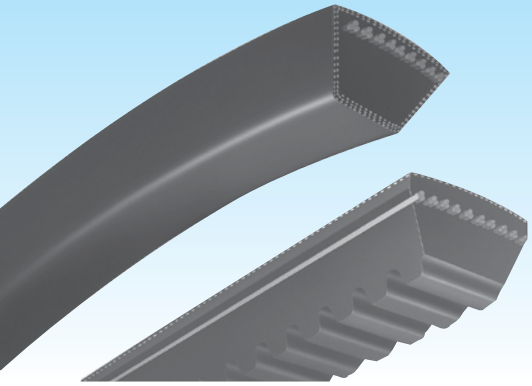
FLEXSTAR Belt J ····· P51

POLYMAX ····· P52

MB Belt ····· P53

STARROPE / SUPER STARROPE /

Plain V-rope / Plain Hexagonal-rope ····· P54



# Classical V-belts
# Wrapped Type / Raw Edge Cogged Type

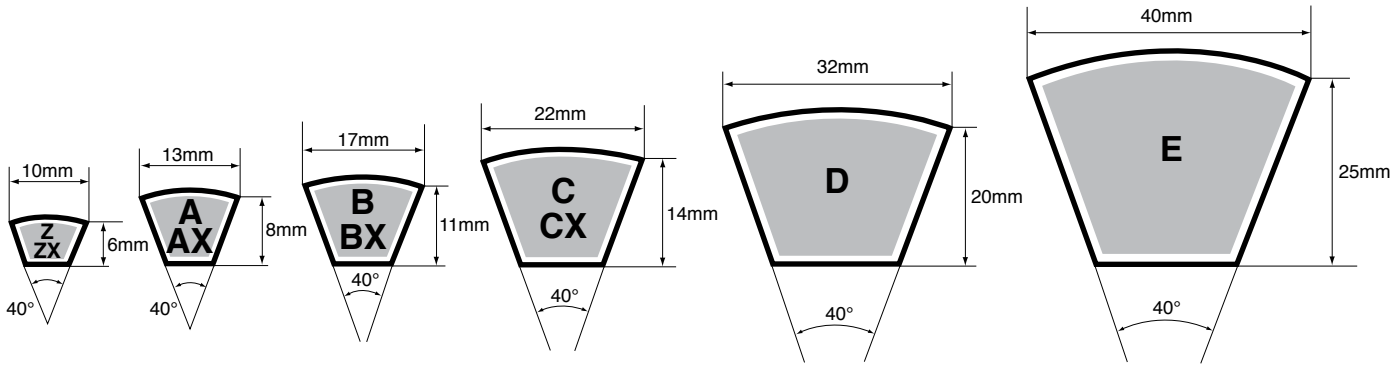
Classical V-belts are the most widely used power transmission belts.
Economical and easily-available for replacement.

**Product Code**

A–40
- A: Cross Section
- 40: Belt Code (inch)

## Cross-Sectional Dimensions

Note: All sizes of Mitsuboshi V-belts respectively meet the dimensional requirements as stated in DIN 2215/ISO 4184 shown below.




## Standard Belt Sizes

**Z, ZX**

| Belt Code | Inner length Li (mm) | Datum length Ld (mm) |
|---|---|---|
| 20 | 515 | 537 |
| 21 | 530 | 552 |
| 22 | 560 | 582 |
| 23 | 585 | 607 |
| 24 | 610 | 632 |
| 25 | 630 | 652 |
| 26 | 660 | 682 |
| 27 | 685 | 707 |
| 28 | 710 | 732 |
| 29 | 730 | 752 |
| 30 | 765 | 787 |
| 31 | 790 | 812 |
| 32 | 820 | 842 |
| 33 | 840 | 862 |
| 34 | 865 | 887 |
| 35 | 890 | 912 |
| 36 | 915 | 937 |
| 37 | 940 | 962 |
| 38 | 965 | 987 |
| 39 | 990 | 1012 |
| 40 | 1016 | 1038 |
| 41 | 1041 | 1063 |
| 42 | 1060 | 1082 |
| 43 | 1090 | 1112 |
| 44 | 1120 | 1142 |
| 45 | 1140 | 1162 |
| 46 | 1165 | 1187 |
| 47 | 1194 | 1216 |
| 48 | 1225 | 1247 |
| 49 | 1250 | 1272 |
| 50 | 1270 | 1292 |

Size range of Z type: 20" ~ 93"
Size range of ZX type: 20" ~ 98"

: Available size for Raw Edge Cogged V-belts ZX

**A,AX**

| Belt Code | Inner length Li (mm) | Datum length Ld (mm) | Belt Code | Inner length Li (mm) | Datum length Ld (mm) | Belt Code | Inner length Li (mm) | Datum length Ld (mm) |
|---|---|---|---|---|---|---|---|---|
| 20 | 508 | 538 | 56 | 1422 | 1452 | 92 | 2337 | 2367 |
| 21 | 535 | 565 | 57 | 1450 | 1480 | 93 | 2360 | 2390 |
| 22 | 560 | 590 | 58 | 1475 | 1505 | 94 | 2388 | 2418 |
| 23 | 585 | 615 | 59 | 1500 | 1530 | 95 | 2413 | 2443 |
| 24 | 610 | 640 | 60 | 1525 | 1555 | 96 | 2438 | 2468 |
| 25 | 630 | 660 | 61 | 1550 | 1580 | 97 | 2464 | 2494 |
| 26 | 660 | 690 | 62 | 1575 | 1605 | 98 | 2500 | 2530 |
| 27 | 686 | 716 | 63 | 1600 | 1630 | 99 | 2515 | 2545 |
| 28 | 710 | 740 | 64 | 1625 | 1655 | 100 | 2540 | 2570 |
| 29 | 730 | 760 | 65 | 1650 | 1680 | 102 | 2591 | 2621 |
| 30 | 767 | 797 | 66 | 1676 | 1706 | 105 | 2667 | 2697 |
| 31 | 787 | 817 | 67 | 1700 | 1730 | 108 | 2743 | 2773 |
| 32 | 813 | 843 | 68 | 1725 | 1755 | 110 | 2800 | 2830 |
| 33 | 838 | 868 | 69 | 1750 | 1780 | 112 | 2845 | 2875 |
| 34 | 864 | 894 | 70 | 1775 | 1805 | 115 | 2921 | 2951 |
| 35 | 889 | 919 | 71 | 1800 | 1830 | 118 | 3000 | 3030 |
| 36 | 914 | 944 | 72 | 1825 | 1855 | 120 | 3048 | 3078 |
| 37 | 940 | 970 | 73 | 1854 | 1884 | 122 | 3100 | 3130 |
| 38 | 965 | 995 | 74 | 1880 | 1910 | 125 | 3175 | 3205 |
| 39 | 990 | 1020 | 75 | 1900 | 1930 | 128 | 3250 | 3280 |
| 40 | 1016 | 1046 | 76 | 1930 | 1960 | 130 | 3300 | 3330 |
| 41 | 1041 | 1071 | 77 | 1956 | 1986 | 135 | 3425 | 3455 |
| 42 | 1060 | 1090 | 78 | 1980 | 2010 | 140 | 3550 | 3580 |
| 43 | 1100 | 1130 | 79 | 2000 | 2030 | 150 | 3810 | 3840 |
| 44 | 1120 | 1150 | 80 | 2032 | 2062 | 160 | 4064 | 4094 |
| 45 | 1143 | 1173 | 81 | 2060 | 2090 | 170 | 4318 | 4348 |
| 46 | 1168 | 1198 | 82 | 2083 | 2113 | 180 | 4572 | 4602 |
| 47 | 1200 | 1230 | 83 | 2110 | 2140 | | | |
| 48 | 1220 | 1250 | 84 | 2134 | 2164 | | | |
| 49 | 1250 | 1280 | 85 | 2160 | 2190 | | | |
| 50 | 1270 | 1300 | 86 | 2180 | 2210 | | | |
| 51 | 1300 | 1330 | 87 | 2210 | 2240 | | | |
| 52 | 1320 | 1350 | 88 | 2240 | 2270 | | | |
| 53 | 1350 | 1380 | 89 | 2260 | 2290 | | | |
| 54 | 1375 | 1405 | 90 | 2286 | 2316 | | | |
| 55 | 1400 | 1430 | 91 | 2310 | 2340 | | | |

Size range of A type: 20" ~ 360"
Size range of AX type: 20" ~ 180"

: Available size for Raw Edge Cogged V-belts AX

# Classical V-belts
# Wrapped Type / Raw Edge Cogged Type



## Standard Belt Sizes

| B,BX | | | | | |
|---|---|---|---|---|---|
| Belt Code | Inner length Li (mm) | Datum length Ld (mm) | Belt Code | Inner length Li (mm) | Datum length Ld (mm) |
| 25 | 630 | 673 | 79 | 2000 | 2043 |
| 26 | 660 | 703 | 80 | 2032 | 2075 |
| 27 | 686 | 729 | 81 | 2060 | 2103 |
| 28 | 710 | 753 | 82 | 2083 | 2126 |
| 29 | 735 | 778 | 83 | 2100 | 2143 |
| 30 | 762 | 805 | 84 | 2134 | 2177 |
| 31 | 785 | 828 | 85 | 2160 | 2203 |
| 32 | 813 | 856 | 86 | 2200 | 2243 |
| 33 | 838 | 881 | 87 | 2210 | 2253 |
| 34 | 865 | 908 | 88 | 2240 | 2283 |
| 35 | 889 | 932 | 89 | 2260 | 2303 |
| 36 | 915 | 958 | 90 | 2286 | 2329 |
| 37 | 940 | 983 | 91 | 2300 | 2343 |
| 38 | 965 | 1008 | 92 | 2337 | 2380 |
| 39 | 991 | 1034 | 93 | 2360 | 2403 |
| 40 | 1016 | 1059 | 94 | 2388 | 2431 |
| 41 | 1040 | 1083 | 95 | 2413 | 2456 |
| 42 | 1060 | 1103 | 96 | 2438 | 2481 |
| 43 | 1090 | 1133 | 97 | 2465 | 2508 |
| 44 | 1120 | 1163 | 98 | 2500 | 2543 |
| 45 | 1150 | 1193 | 99 | 2515 | 2558 |
| 46 | 1175 | 1218 | 100 | 2540 | 2583 |
| 47 | 1200 | 1243 | 102 | 2600 | 2643 |
| 48 | 1215 | 1258 | 105 | 2667 | 2710 |
| 49 | 1250 | 1293 | 106 | 2700 | 2743 |
| 50 | 1275 | 1318 | 108 | 2750 | 2793 |
| 51 | 1300 | 1343 | 110 | 2800 | 2843 |
| 52 | 1320 | 1363 | 112 | 2845 | 2888 |
| 53 | 1350 | 1393 | 115 | 2921 | 2964 |
| 54 | 1372 | 1415 | 118 | 3000 | 3043 |
| 55 | 1400 | 1443 | 120 | 3048 | 3091 |
| 56 | 1425 | 1468 | 122 | 3099 | 3142 |
| 57 | 1450 | 1493 | 125 | 3175 | 3218 |
| 58 | 1475 | 1518 | 128 | 3250 | 3293 |
| 59 | 1500 | 1543 | 130 | 3300 | 3343 |
| 60 | 1525 | 1568 | 132 | 3350 | 3393 |
| 61 | 1550 | 1593 | 135 | 3425 | 3468 |
| 62 | 1575 | 1618 | 138 | 3500 | 3543 |
| 63 | 1600 | 1643 | 140 | 3550 | 3593 |
| 64 | 1625 | 1668 | 145 | 3675 | 3718 |
| 65 | 1650 | 1693 | 150 | 3810 | 3853 |
| 66 | 1675 | 1718 | 155 | 3937 | 3980 |
| 67 | 1700 | 1743 | 160 | 4065 | 4108 |
| 68 | 1725 | 1768 | | | |
| 69 | 1750 | 1793 | | | |
| 70 | 1775 | 1818 | | | |
| 71 | 1800 | 1843 | | | |
| 72 | 1825 | 1868 | | | |
| 73 | 1850 | 1893 | | | |
| 74 | 1880 | 1923 | | | |
| 75 | 1900 | 1943 | | | |
| 76 | 1930 | 1973 | | | |
| 77 | 1950 | 1993 | | | |
| 78 | 1981 | 2024 | | | |

Size range of B type: 23" ~ 660"
Size range of BX type: 25" ~ 270"

: Available size for Raw Edge Cogged V-belts BX

# Classical V-belts
# Wrapped Type / Raw Edge Cogged Type

## Standard Belt Sizes

| C,CX | | | | | |
|---|---|---|---|---|---|
| Belt Code | Inner length Li (mm) | Datum length Ld (mm) | Belt Code | Inner length Li (mm) | Datum length Ld (mm) |
| 40 | 1000 | 1052 | 96 | 2438 | 2490 |
| 42 | 1075 | 1127 | 97 | 2465 | 2517 |
| 45 | 1150 | 1202 | 98 | 2500 | 2552 |
| 48 | 1220 | 1272 | 99 | 2525 | 2577 |
| 50 | 1270 | 1322 | 100 | 2540 | 2592 |
| 51 | 1295 | 1347 | 102 | 2591 | 2643 |
| 52 | 1320 | 1372 | 105 | 2667 | 2719 |
| 53 | 1350 | 1402 | 108 | 2750 | 2802 |
| 54 | 1375 | 1427 | 110 | 2800 | 2852 |
| 55 | 1400 | 1452 | 112 | 2845 | 2897 |
| 56 | 1425 | 1477 | 115 | 2921 | 2973 |
| 57 | 1450 | 1502 | 118 | 3000 | 3052 |
| 58 | 1475 | 1527 | 120 | 3050 | 3102 |
| 59 | 1500 | 1552 | 122 | 3100 | 3152 |
| 60 | 1525 | 1577 | 125 | 3175 | 3227 |
| 61 | 1550 | 1602 | 128 | 3250 | 3302 |
| 62 | 1575 | 1627 | 130 | 3300 | 3352 |
| 63 | 1600 | 1652 | 132 | 3350 | 3402 |
| 64 | 1625 | 1677 | 138 | 3500 | 3552 |
| 65 | 1650 | 1702 | 140 | 3550 | 3602 |
| 66 | 1675 | 1727 | 142 | 3600 | 3652 |
| 67 | 1700 | 1752 | 148 | 3750 | 3802 |
| 68 | 1725 | 1777 | 150 | 3810 | 3862 |
| 69 | 1750 | 1802 | 155 | 3937 | 3989 |
| 70 | 1775 | 1827 | 160 | 4064 | 4116 |
| 71 | 1800 | 1852 | 170 | 4318 | 4370 |
| 72 | 1829 | 1881 | 180 | 4572 | 4624 |
| 73 | 1854 | 1906 | 190 | 4825 | 4877 |
| 74 | 1880 | 1932 | 195 | 4950 | 5002 |
| 75 | 1900 | 1952 | 197 | 5000 | 5052 |
| 76 | 1930 | 1982 | 200 | 5080 | 5132 |
| 77 | 1956 | 2008 | 210 | 5334 | 5386 |
| 78 | 1981 | 2033 | 220 | 5600 | 5652 |
| 79 | 2000 | 2052 | 230 | 5842 | 5894 |
| 80 | 2032 | 2084 | 240 | 6096 | 6148 |
| 81 | 2060 | 2112 | 250 | 6350 | 6402 |
| 82 | 2083 | 2135 | 260 | 6600 | 6652 |
| 83 | 2108 | 2160 | 270 | 6858 | 6910 |
| 84 | 2135 | 2187 | | | |
| 85 | 2159 | 2211 | | | |
| 86 | 2184 | 2236 | | | |
| 87 | 2210 | 2262 | | | |
| 88 | 2240 | 2292 | | | |
| 89 | 2261 | 2313 | | | |
| 90 | 2286 | 2338 | | | |
| 91 | 2311 | 2363 | | | |
| 92 | 2337 | 2389 | | | |
| 93 | 2360 | 2412 | | | |
| 94 | 2388 | 2440 | | | |
| 95 | 2413 | 2465 | | | |

Size range of C type: 37" ~ 660"
Size range of CX type: 40" ~ 270"

: Available size for Raw Edge Cogged V-belts CX

# Classical V-belts Wrapped Type



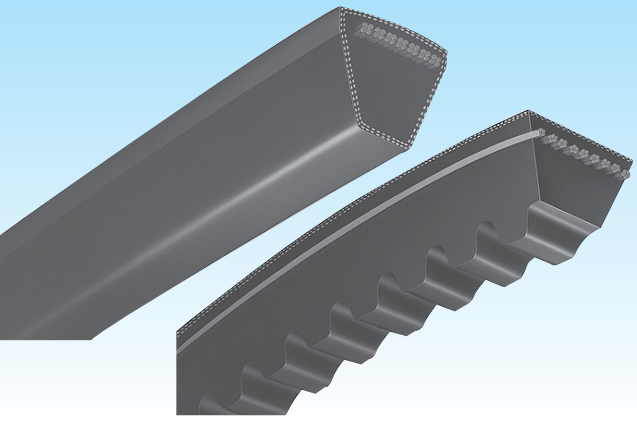
## Standard Belt Sizes

| D | | |
|---|---|---|
| Belt Code | Inner length Li (mm) | Datum length Ld (mm) |
| 100 | 2540 | 2615 |
| 105 | 2675 | 2750 |
| 110 | 2800 | 2875 |
| 115 | 2925 | 3000 |
| 120 | 3048 | 3123 |
| 130 | 3300 | 3375 |
| 135 | 3425 | 3500 |
| 140 | 3550 | 3625 |
| 150 | 3810 | 3885 |
| 155 | 3925 | 4000 |
| 160 | 4060 | 4135 |
| 165 | 4200 | 4275 |
| 170 | 4320 | 4395 |
| 180 | 4570 | 4645 |
| 190 | 4825 | 4900 |
| 200 | 5080 | 5155 |
| 210 | 5330 | 5405 |
| 220 | 5600 | 5675 |
| 230 | 5850 | 5925 |
| 240 | 6096 | 6171 |
| 250 | 6350 | 6425 |
| 260 | 6600 | 6675 |
| 270 | 6850 | 6925 |
| 280 | 7100 | 7175 |
| 300 | 7620 | 7695 |
| 310 | 7875 | 7950 |
| 330 | 8380 | 8455 |
| 360 | 9144 | 9219 |

Size range: 100" ~ 660"

| E | | |
|---|---|---|
| Belt Code | Inner length Li (mm) | Datum length Ld (mm) |
| 180 | 4575 | 4657 |
| 210 | 5300 | 5382 |
| 240 | 6100 | 6182 |
| 270 | 6850 | 6932 |
| 300 | 7620 | 7702 |
| 330 | 8380 | 8462 |
| 360 | 9150 | 9232 |
| 390 | 9900 | 9982 |
| 420 | 10670 | 10752 |

Size range: 144" ~ 660"



# MAXSTAR WEDGE V-belts
# Wrapped Type / Raw Edge Cogged Type

Maxstar Wedge V-belts have double the power transmission capacity of classical V-belts due to greater wedge effect. It features high speed transmission, energy saving, and compact design.

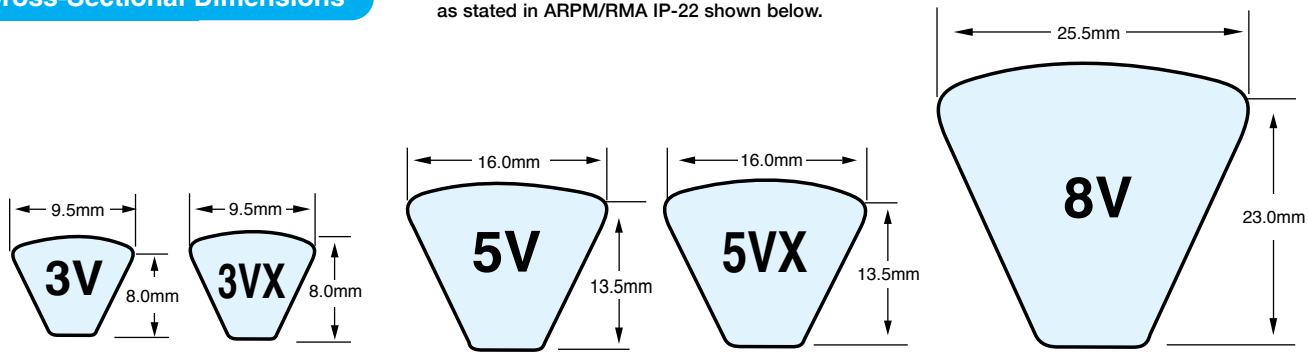
## Product Code

5V—2500

Cross Section — Belt Code (inch x10)

## Cross-Sectional Dimensions

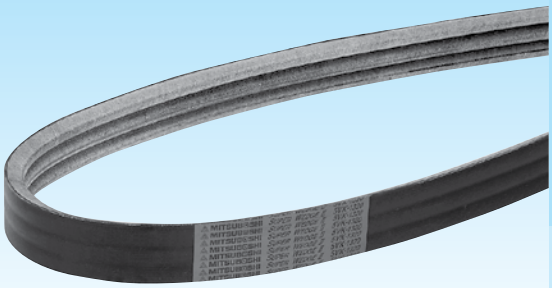
Note: All sizes of Mitsuboshi V-belts respectively meet the dimensional requirements as stated in ARPM/RMA IP-22 shown below.




## Standard Belt Sizes

| 3V·3VX | | 5V·5VX | | 8V | |
|---|---|---|---|---|---|
| Belt Code | Effective length Le (mm) | Belt Code | Effective length Le (mm) | Belt Code | Effective length Le (mm) |
| 250 | 635 | 500 | 1270 | 1000 | 2540 |
| 265 | 673 | 530 | 1346 | 1060 | 2692 |
| 280 | 711 | 560 | 1422 | 1120 | 2845 |
| 300 | 762 | 600 | 1524 | 1180 | 2997 |
| 315 | 800 | 630 | 1600 | 1250 | 3175 |
| 335 | 851 | 670 | 1702 | 1320 | 3353 |
| 355 | 902 | 710 | 1803 | 1400 | 3556 |
| 375 | 953 | 750 | 1905 | 1500 | 3810 |
| 400 | 1016 | 800 | 2032 | 1600 | 4064 |
| 425 | 1080 | 850 | 2159 | 1700 | 4318 |
| 450 | 1143 | 900 | 2286 | 1800 | 4572 |
| 475 | 1207 | 950 | 2413 | 1900 | 4826 |
| 500 | 1270 | 1000 | 2540 | 2000 | 5080 |
| 530 | 1346 | 1060 | 2692 | 2120 | 5385 |
| 560 | 1422 | 1120 | 2845 | 2240 | 5690 |
| 600 | 1524 | 1180 | 2997 | 2360 | 5994 |
| 630 | 1600 | 1250 | 3175 | 2500 | 6350 |
| 670 | 1702 | 1320 | 3353 | 2650 | 6731 |
| 710 | 1803 | 1400 | 3556 | 2800 | 7112 |
| 750 | 1905 | 1500 | 3810 | 3000 | 7620 |
| 800 | 2032 | 1600 | 4064 | 3150 | 8001 |
| 850 | 2159 | 1700 | 4318 | 3350 | 8509 |
| 900 | 2286 | 1800 | 4572 | 3550 | 9017 |
| 950 | 2413 | 1900 | 4826 | 3750 | 9525 |
| 1000 | 2540 | 2000 | 5080 | 4000 | 10160 |
| 1060 | 2692 | 2120 | 5385 | 4250 | 10795 |
| 1120 | 2845 | 2240 | 5690 | 4500 | 11430 |
| 1180 | 2997 | 2360 | 5994 | 4750 | 12065 |
| 1250 | 3175 | 2500 | 6350 | 5000 | 12700 |
| 1320 | 3353 | 2650 | 6731 | 5600 | 14224 |
| 1400 | 3556 | 2800 | 7112 | 6000 | 15240 |
| | | 3000 | 7620 | | |
| | | 3150 | 8001 | | |
| | | 3350 | 8509 | | |
| | | 3550 | 9017 | | |

: Available size for Raw Edge Cogged V-belts 3VX & 5VX



# SUPER WEDGE Ⅱ

All the quality features and benefits of single belts - Plus.
- Designed for extra heavy duty applications.
- Aramid cords with bareback fablic for clutch effect.
- Reduced Belt stretch under heavy loads and torque.
- High working loads, high shock loads.

**Product Code**

**5VK—1600**

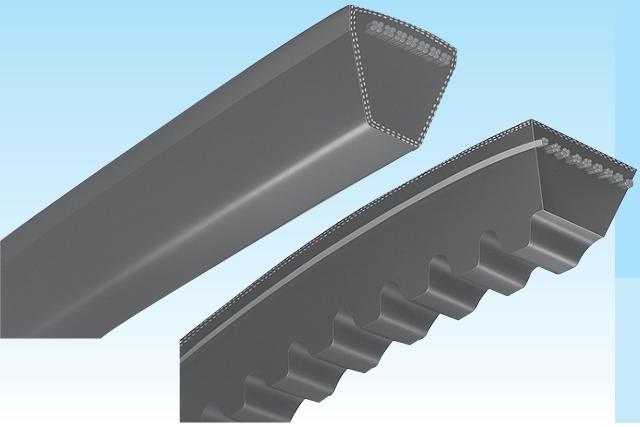
Cross Section — Belt Code (inch x 10)

## Standard Belt Sizes

| 5VK | | 8VK | |
|---|---|---|---|
| Belt Code | Effective length Le (mm) | Belt Code | Effective length Le (mm) |
| 630 | 1600 | 1000 | 2540 |
| 670 | 1702 | 1060 | 2692 |
| 710 | 1803 | 1120 | 2845 |
| 750 | 1905 | 1180 | 2997 |
| 800 | 2032 | 1250 | 3175 |
| 850 | 2159 | 1320 | 3353 |
| 870 | 2210 | 1400 | 3556 |
| 900 | 2286 | 1500 | 3810 |
| 950 | 2413 | 1600 | 4064 |
| 1000 | 2540 | 1700 | 4318 |
| 1060 | 2692 | 1800 | 4572 |
| 1120 | 2845 | 1900 | 4826 |
| 1180 | 2997 | 2000 | 5080 |
| 1250 | 3175 | 2120 | 5385 |
| 1320 | 3353 | 2240 | 5690 |
| 1400 | 3556 | 2360 | 5994 |
| 1500 | 3810 | 2500 | 6350 |
| 1600 | 4064 | 2650 | 6731 |
| 1700 | 4318 | 2800 | 7112 |
| 1800 | 4572 | 3000 | 7620 |
| 1900 | 4826 | 3150 | 8001 |
| 2000 | 5080 | 3350 | 8509 |
| 2030 | 5156 | 3550 | 9017 |
| 2120 | 5385 | 3750 | 9525 |
| 2240 | 5690 | 4000 | 10160 |
| 2360 | 5994 | 4250 | 10795 |
| 2500 | 6350 | 4500 | 11430 |
| 2650 | 6731 | 4750 | 12065 |
| 2800 | 7112 | 5000 | 12700 |
| 3000 | 7620 | 5600 | 14224 |
| 3150 | 8001 | 5900 | 14986 |
| 3350 | 8509 | 6000 | 15240 |
| 3550 | 9017 | 6600 | 16764 |

～ 2800 : Available up to 29 Ribs
3000～ : Available up to 28 Ribs

～ 4000 : Available up to 18 Ribs
4250 ～ : Available up to 17 Ribs



# Narrow V-belts
# Wrapped Type / Raw Edge Cogged Type

Narrow V-belts enable space saving, high speed drive, and reduced cost of operating and maintenance.
It features oil / heat resistance and electrical conductivity.

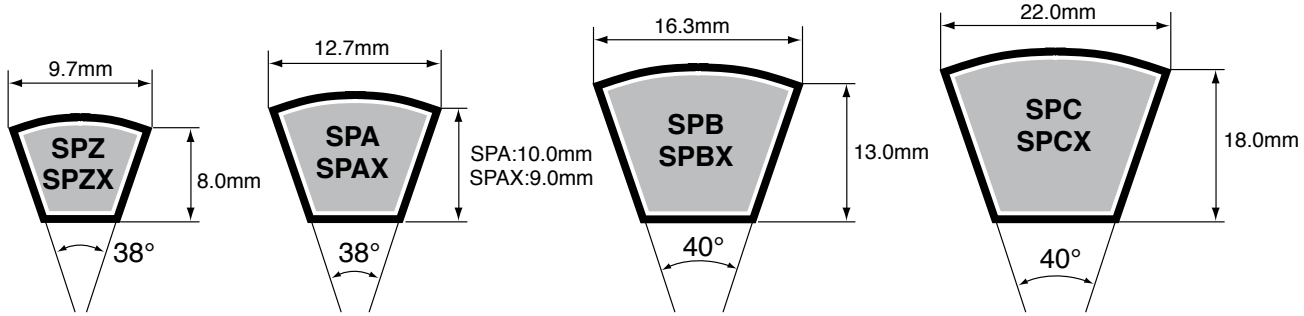
**Product Code**

SPZ—1000—Lw

- SPZ: Cross Section
- 1000: Datum Length (mm)
- Lw: Datum

## Cross-Sectional Dimensions

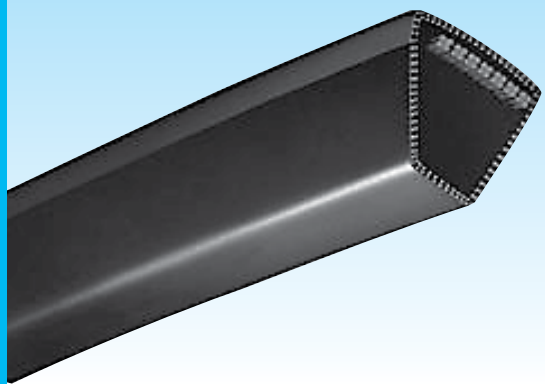
Note: All sizes of Mitsuboshi V-belts respectively meet the dimensional requirements as stated in DIN 7753/ ISO4184 shown below.




## Standard Belt Sizes

| SPZ(SPZX) | | | | SPA(SPAX) | | | | SPB(SPBX) | | | | SPC(SPCX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) |
| 487 | 500 | 1400 | 1413 | 732 | 750 | 1932 | 1950 | 1250 | 1272 | 4296 | 4318 | 2000 | 2030 |
| 512 | 525 | 1412 | 1425 | 742 | 760 | 1957 | 1975 | 1320 | 1342 | 4310 | 4332 | 2120 | 2150 |
| 562 | 575 | 1420 | 1433 | 757 | 775 | 1982 | 2000 | 1340 | 1362 | 4318 | 4340 | 2360 | 2390 |
| 587 | 600 | 1437 | 1450 | 782 | 800 | 2000 | 2018 | 1400 | 1422 | 4370 | 4392 | 2500 | 2530 |
| 612 | 625 | 1462 | 1475 | 800 | 818 | 2032 | 2050 | 1410 | 1432 | 4500 | 4522 | 3100 | 3130 |
| 630 | 643 | 1487 | 1500 | 807 | 825 | 2057 | 2075 | 1500 | 1522 | 4560 | 4582 | 3150 | 3180 |
| 637 | 650 | 1500 | 1513 | 832 | 850 | 2082 | 2100 | 1510 | 1532 | 4600 | 4622 | 3200 | 3230 |
| 662 | 675 | 1512 | 1525 | 850 | 868 | 2120 | 2138 | 1590 | 1612 | 4620 | 4642 | 3220 | 3250 |
| 670 | 683 | 1520 | 1533 | 857 | 875 | 2132 | 2150 | 1600 | 1622 | 4720 | 4742 | 3320 | 3350 |
| 687 | 700 | 1537 | 1550 | 882 | 900 | 2182 | 2200 | 1690 | 1712 | 4750 | 4772 | 3350 | 3380 |
| 710 | 723 | 1562 | 1575 | 900 | 918 | 2232 | 2250 | 1700 | 1722 | 4820 | 4842 | 3375 | 3405 |
| 722 | 735 | 1587 | 1600 | 907 | 925 | 2240 | 2258 | 1750 | 1772 | 4870 | 4892 | 3420 | 3450 |
| 737 | 750 | 1600 | 1613 | 932 | 950 | 2307 | 2325 | 1800 | 1822 | 5000 | 5022 | 3430 | 3460 |
| 750 | 763 | 1612 | 1625 | 950 | 968 | 2360 | 2378 | 1850 | 1872 | 5070 | 5092 | 3450 | 3480 |
| 760 | 773 | 1637 | 1650 | 957 | 975 | 2432 | 2450 | 1900 | 1922 | 5300 | 5322 | 3500 | 3530 |
| 762 | 775 | 1662 | 1675 | 967 | 985 | 2482 | 2500 | 1950 | 1972 | 5380 | 5402 | 3520 | 3550 |
| 772 | 785 | 1687 | 1700 | 982 | 1000 | 2500 | 2518 | 2000 | 2022 | 5500 | 5522 | 3550 | 3580 |
| 787 | 800 | 1700 | 1713 | 1000 | 1018 | 2607 | 2625 | 2030 | 2052 | 5600 | 5622 | 3600 | 3630 |
| 800 | 813 | 1737 | 1750 | 1032 | 1050 | 2650 | 2668 | 2060 | 2082 | 5680 | 5702 | 3620 | 3650 |
| 812 | 825 | 1762 | 1775 | 1057 | 1075 | 2800 | 2818 | 2120 | 2142 | 5800 | 5822 | 3670 | 3700 |
| 825 | 838 | 1787 | 1800 | 1082 | 1100 | 3000 | 3018 | 2150 | 2172 | 5990 | 6012 | 3700 | 3730 |
| 837 | 850 | 1800 | 1813 | 1107 | 1125 | 3082 | 3100 | 2180 | 2202 | 6000 | 6022 | 3750 | 3780 |
| 850 | 863 | 1812 | 1825 | 1120 | 1138 | 3132 | 3150 | 2240 | 2262 | 6300 | 6322 | 3770 | 3800 |
| 862 | 875 | 1837 | 1850 | 1132 | 1150 | 3150 | 3168 | 2280 | 2302 | 6340 | 6362 | 3800 | 3830 |
| 875 | 888 | 1862 | 1875 | 1157 | 1175 | 3182 | 3200 | 2310 | 2332 | 6700 | 6722 | 3810 | 3840 |
| 887 | 900 | 1887 | 1900 | 1182 | 1200 | 3282 | 3300 | 2360 | 2382 | 6720 | 6742 | 3970 | 4000 |
| 900 | 913 | 1900 | 1913 | 1207 | 1225 | 3350 | 3368 | 2410 | 2432 | 7100 | 7122 | 4000 | 4030 |
| 912 | 925 | 1937 | 1950 | 1232 | 1250 | 3382 | 3400 | 2425 | 2447 | 7500 | 7522 | 4050 | 4080 |
| 925 | 938 | 1987 | 2000 | 1250 | 1268 | 3482 | 3500 | 2500 | 2522 | 8000 | 8022 | 4100 | 4130 |
| 937 | 950 | 2000 | 2013 | 1257 | 1275 | 3500 | 3518 | 2530 | 2552 | 8500 | 8522 | 4200 | 4230 |
| 950 | 963 | 2030 | 2043 | 1272 | 1290 | 3550 | 3568 | 2680 | 2702 | 9000 | 9022 | 4250 | 4280 |
| 962 | 975 | 2037 | 2050 | 1282 | 1300 | 3650 | 3668 | 2800 | 2822 | | | 4300 | 4330 |
| 987 | 1000 | 2087 | 2100 | 1300 | 1318 | 3750 | 3768 | 2840 | 2862 | | | 4350 | 4380 |
| 1000 | 1013 | 2120 | 2133 | 1307 | 1325 | 3870 | 3888 | 3000 | 3022 | | | 4380 | 4410 |
| 1010 | 1023 | 2137 | 2150 | 1320 | 1338 | 4000 | 4018 | 3070 | 3092 | | | 4400 | 4430 |
| 1012 | 1025 | 2160 | 2173 | 1332 | 1350 | 4120 | 4138 | 3150 | 3172 | | | 4420 | 4450 |
| 1024 | 1037 | 2187 | 2200 | 1357 | 1375 | 4250 | 4268 | 3170 | 3192 | | | 4445 | 4475 |
| 1037 | 1050 | 2200 | 2213 | 1367 | 1385 | 4300 | 4318 | 3175 | 3197 | | | 4450 | 4480 |
| 1047 | 1060 | 2240 | 2253 | 1382 | 1400 | 4500 | 4518 | 3200 | 3222 | | | 4500 | 4530 |
| 1060 | 1073 | 2280 | 2293 | 1400 | 1413 | 4600 | 4618 | 3238 | 3260 | | | 4530 | 4560 |
| 1077 | 1090 | 2337 | 2350 | 1407 | 1425 | 4750 | 4768 | 3250 | 3272 | | | 4650 | 4680 |
| 1080 | 1093 | 2410 | 2423 | 1432 | 1450 | 4865 | 4883 | 3280 | 3302 | | | 4720 | 4750 |
| 1087 | 1100 | 2500 | 2513 | 1457 | 1475 | 5000 | 5018 | 3328 | 3350 | | | 4750 | 4780 |
| 1100 | 1113 | 2540 | 2553 | 1482 | 1500 | | | 3340 | 3362 | | | 4850 | 4880 |
| 1112 | 1125 | 2650 | 2663 | 1500 | 1518 | | | 3350 | 3372 | | | 4900 | 4930 |
| 1120 | 1133 | 2690 | 2703 | 1507 | 1525 | | | 3400 | 3422 | | | 4970 | 5000 |
| 1137 | 1150 | 2840 | 2853 | 1532 | 1550 | | | 3412 | 3434 | | | 5000 | 5030 |
| 1140 | 1153 | 3070 | 3083 | 1557 | 1575 | | | 3425 | 3447 | | | 5030 | 5060 |
| 1162 | 1175 | 3150 | 3163 | 1582 | 1600 | | | 3450 | 3472 | | | 5070 | 5100 |
| 1180 | 1193 | 3170 | 3183 | 1600 | 1618 | | | 3500 | 3522 | | | 5200 | 5230 |
| 1187 | 1200 | 3200 | 3213 | 1607 | 1625 | | | 3550 | 3572 | | | 5300 | 5330 |
| 1200 | 1213 | 3250 | 3263 | 1632 | 1650 | | | 3650 | 3672 | | | 5330 | 5360 |
| 1202 | 1215 | 3350 | 3363 | 1657 | 1675 | | | 3675 | 3697 | | | 5400 | 5430 |
| 1212 | 1225 | 3450 | 3463 | 1682 | 1700 | | | 3700 | 3722 | | | 5500 | 5530 |
| 1237 | 1250 | 3550 | 3563 | 1700 | 1718 | | | 3750 | 3772 | | | 5600 | 5630 |
| 1250 | 1263 | 3660 | 3673 | 1707 | 1725 | | | 3770 | 3792 | | | 5700 | 5730 |
| 1262 | 1275 | 3750 | 3763 | 1732 | 1750 | | | 3800 | 3822 | | | 6000 | 6030 |
| 1270 | 1283 | 4000 | 4013 | 1757 | 1775 | | | 3850 | 3872 | | | 6200 | 6230 |
| 1287 | 1300 | 4500 | 4513 | 1782 | 1800 | | | 3870 | 3892 | | | 6300 | 6330 |
| 1300 | 1313 | | | 1800 | 1818 | | | 3875 | 3897 | | | 6480 | 6510 |
| 1312 | 1325 | | | 1807 | 1825 | | | 4000 | 4022 | | | 6500 | 6530 |
| 1320 | 1333 | | | 1832 | 1850 | | | 4060 | 4082 | | | 6700 | 6730 |
| 1337 | 1350 | | | 1857 | 1875 | | | 4100 | 4122 | | | | |
| 1340 | 1353 | | | 1882 | 1900 | | | 4120 | 4142 | | | | |
| 1362 | 1375 | | | 1900 | 1918 | | | 4250 | 4272 | up to 10000 | | up to 12500 | |
| 1387 | 1400 | | | 1907 | 1925 | | | 4260 | 4282 | | | | |

: Available size for Raw Edge Cogged V-belts SPZX, SPAX, SPBX, SPCX.



# MAXSTAR POWER Narrow

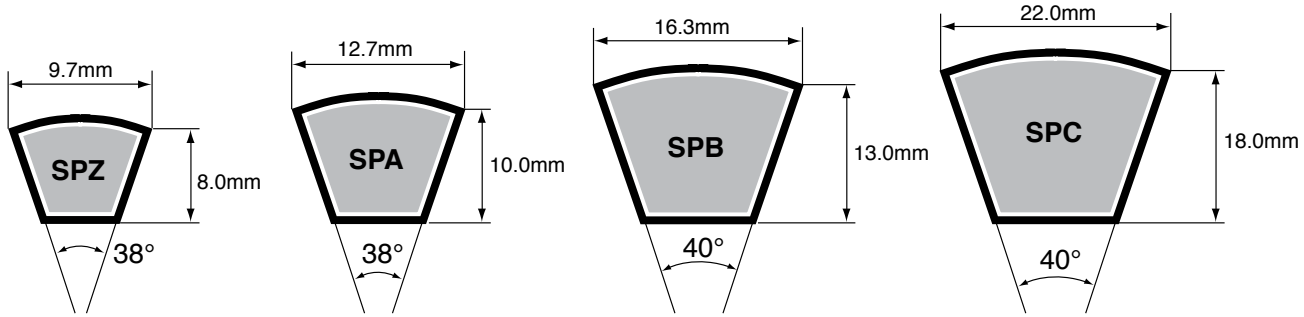
Narrow V-Belts enable space saving, high speed drive, and reduced cost of operating and maintenance.
It features oil / heat resistance and electrical conductivity.

**Product Code** SPZ—1000—Lw

Cross Section — Datum Length (mm) — Datum

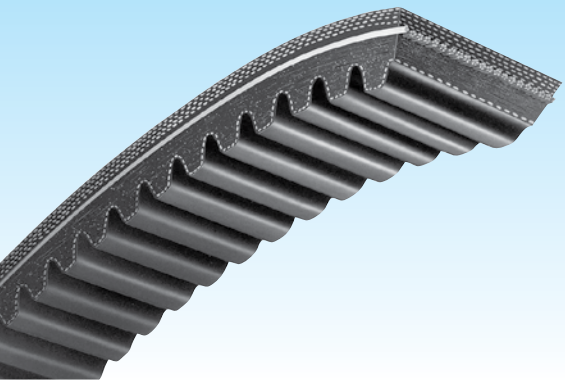
## Cross-Sectional Dimensions

Note: All sizes of Mitsuboshi V-belts respectively meet the dimensional requirements as stated in DIN 7753/ISO4184 shown below.




## Standard Belt Sizes

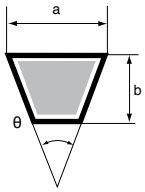
| SPZ | | | | SPA | | | | SPB | | | | SPC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) | Datum length Ld(mm) | Outer length La(mm) |
| 487 | 500 | 1462 | 1475 | 732 | 750 | 2032 | 2050 | 1250 | 1272 | 4500 | 4522 | 2000 | 2030 |
| 512 | 525 | 1487 | 1500 | 742 | 760 | 2057 | 2075 | 1320 | 1342 | 4560 | 4582 | 2120 | 2150 |
| 562 | 575 | 1500 | 1513 | 757 | 775 | 2082 | 2100 | 1340 | 1362 | 4600 | 4622 | 2360 | 2390 |
| 587 | 600 | 1512 | 1525 | 782 | 800 | 2120 | 2138 | 1400 | 1422 | 4620 | 4642 | 2500 | 2530 |
| 612 | 625 | 1520 | 1533 | 800 | 818 | 2132 | 2150 | 1410 | 1432 | 4720 | 4742 | 3100 | 3130 |
| 630 | 643 | 1537 | 1550 | 807 | 825 | 2182 | 2200 | 1500 | 1522 | 4750 | 4772 | 3150 | 3180 |
| 637 | 650 | 1562 | 1575 | 832 | 850 | 2232 | 2250 | 1510 | 1532 | 4820 | 4842 | 3200 | 3230 |
| 662 | 675 | 1587 | 1600 | 850 | 868 | 2240 | 2258 | 1590 | 1612 | 4870 | 4892 | 3220 | 3250 |
| 670 | 683 | 1600 | 1613 | 857 | 875 | 2307 | 2325 | 1600 | 1622 | 5000 | 5022 | 3320 | 3350 |
| 687 | 700 | 1612 | 1625 | 882 | 900 | 2360 | 2378 | 1690 | 1712 | 5070 | 5092 | 3350 | 3380 |
| 710 | 723 | 1637 | 1650 | 900 | 918 | 2432 | 2450 | 1700 | 1722 | 5300 | 5322 | 3375 | 3405 |
| 722 | 735 | 1662 | 1675 | 907 | 925 | 2482 | 2500 | 1750 | 1772 | 5380 | 5402 | 3420 | 3450 |
| 737 | 750 | 1687 | 1700 | 932 | 950 | 2500 | 2518 | 1800 | 1822 | 5500 | 5522 | 3430 | 3460 |
| 750 | 763 | 1700 | 1713 | 950 | 968 | 2607 | 2625 | 1850 | 1872 | 5600 | 5622 | 3450 | 3480 |
| 760 | 773 | 1737 | 1750 | 957 | 975 | 2650 | 2668 | 1900 | 1922 | 5680 | 5702 | 3500 | 3530 |
| 762 | 775 | 1762 | 1775 | 967 | 985 | 2800 | 2818 | 1950 | 1972 | 5800 | 5822 | 3520 | 3550 |
| 772 | 785 | 1787 | 1800 | 982 | 1000 | 3000 | 3018 | 2000 | 2022 | 5990 | 6012 | 3550 | 3580 |
| 787 | 800 | 1800 | 1813 | 1000 | 1018 | 3082 | 3100 | 2030 | 2052 | 6000 | 6022 | 3600 | 3630 |
| 800 | 813 | 1812 | 1825 | 1032 | 1050 | 3132 | 3150 | 2060 | 2082 | 6300 | 6322 | 3620 | 3650 |
| 812 | 825 | 1837 | 1850 | 1057 | 1075 | 3150 | 3168 | 2120 | 2142 | 6340 | 6362 | 3670 | 3700 |
| 825 | 838 | 1862 | 1875 | 1082 | 1100 | 3182 | 3200 | 2150 | 2172 | 6700 | 6722 | 3700 | 3730 |
| 837 | 850 | 1887 | 1900 | 1107 | 1125 | 3282 | 3300 | 2180 | 2202 | 6720 | 6742 | 3750 | 3780 |
| 850 | 863 | 1900 | 1913 | 1120 | 1138 | 3350 | 3368 | 2240 | 2262 | 7100 | 7122 | 3770 | 3800 |
| 862 | 875 | 1937 | 1950 | 1132 | 1150 | 3382 | 3400 | 2280 | 2302 | 7500 | 7522 | 3800 | 3830 |
| 875 | 888 | 1987 | 2000 | 1157 | 1175 | 3482 | 3500 | 2310 | 2332 | 8000 | 8022 | 3810 | 3840 |
| 887 | 900 | 2000 | 2013 | 1182 | 1200 | 3500 | 3518 | 2360 | 2382 | 8500 | 8522 | 3970 | 4000 |
| 900 | 913 | 2030 | 2043 | 1207 | 1225 | 3550 | 3568 | 2410 | 2432 | 9000 | 9022 | 4000 | 4030 |
| 912 | 925 | 2037 | 2050 | 1232 | 1250 | 3650 | 3668 | 2425 | 2447 | | | 4050 | 4080 |
| 925 | 938 | 2087 | 2100 | 1250 | 1268 | 3750 | 3768 | 2500 | 2522 | | | 4100 | 4130 |
| 937 | 950 | 2120 | 2133 | 1257 | 1275 | 3870 | 3888 | 2530 | 2552 | | | 4200 | 4230 |
| 950 | 963 | 2137 | 2150 | 1272 | 1290 | 4000 | 4018 | 2680 | 2702 | | | 4250 | 4280 |
| 962 | 975 | 2160 | 2173 | 1282 | 1300 | 4120 | 4138 | 2800 | 2822 | | | 4300 | 4330 |
| 987 | 1000 | 2187 | 2200 | 1300 | 1318 | 4250 | 4268 | 2840 | 2862 | | | 4350 | 4380 |
| 1000 | 1013 | 2200 | 2213 | 1307 | 1325 | 4300 | 4318 | 3000 | 3022 | | | 4380 | 4410 |
| 1010 | 1023 | 2240 | 2253 | 1320 | 1338 | 4500 | 4518 | 3070 | 3092 | | | 4400 | 4430 |
| 1012 | 1025 | 2280 | 2293 | 1332 | 1350 | 4600 | 4618 | 3150 | 3172 | | | 4420 | 4450 |
| 1024 | 1037 | 2337 | 2350 | 1357 | 1375 | 4750 | 4768 | 3170 | 3192 | | | 4445 | 4475 |
| 1037 | 1050 | 2410 | 2423 | 1367 | 1385 | 4865 | 4883 | 3175 | 3197 | | | 4450 | 4480 |
| 1047 | 1060 | 2500 | 2513 | 1382 | 1400 | 5000 | 5018 | 3200 | 3222 | | | 4500 | 4530 |
| 1060 | 1073 | 2540 | 2553 | 1400 | 1413 | | | 3238 | 3260 | | | 4530 | 4560 |
| 1077 | 1090 | 2650 | 2663 | 1407 | 1425 | | | 3250 | 3272 | | | 4650 | 4680 |
| 1080 | 1093 | 2690 | 2703 | 1432 | 1450 | | | 3280 | 3302 | | | 4720 | 4750 |
| 1087 | 1100 | 2840 | 2853 | 1457 | 1475 | | | 3328 | 3350 | | | 4750 | 4780 |
| 1100 | 1113 | 3070 | 3083 | 1482 | 1500 | | | 3340 | 3362 | | | 4850 | 4880 |
| 1112 | 1125 | 3150 | 3163 | 1500 | 1518 | | | 3350 | 3372 | | | 4900 | 4930 |
| 1120 | 1133 | 3170 | 3183 | 1507 | 1525 | | | 3400 | 3422 | | | 4970 | 5000 |
| 1137 | 1150 | 3200 | 3213 | 1532 | 1550 | | | 3412 | 3434 | | | 5000 | 5030 |
| 1140 | 1153 | 3250 | 3263 | 1557 | 1575 | | | 3425 | 3447 | | | 5030 | 5060 |
| 1162 | 1175 | 3350 | 3363 | 1582 | 1600 | | | 3450 | 3472 | | | 5070 | 5100 |
| 1180 | 1193 | 3450 | 3463 | 1600 | 1618 | | | 3500 | 3522 | | | 5200 | 5230 |
| 1187 | 1200 | 3550 | 3563 | 1607 | 1625 | | | 3550 | 3572 | | | 5300 | 5330 |
| 1200 | 1213 | 3660 | 3673 | 1632 | 1650 | | | 3650 | 3672 | | | 5330 | 5360 |
| 1202 | 1215 | 3750 | 3763 | 1657 | 1675 | | | 3675 | 3697 | | | 5400 | 5430 |
| 1212 | 1225 | 4000 | 4013 | 1682 | 1700 | | | 3700 | 3722 | | | 5500 | 5530 |
| 1237 | 1250 | 4500 | 4513 | 1700 | 1718 | | | 3750 | 3772 | | | 5600 | 5630 |
| 1250 | 1263 | | | 1707 | 1725 | | | 3770 | 3792 | | | 5700 | 5730 |
| 1262 | 1275 | | | 1732 | 1750 | | | 3800 | 3822 | | | 6000 | 6030 |
| 1270 | 1283 | | | 1757 | 1775 | | | 3850 | 3872 | | | 6200 | 6230 |
| 1287 | 1300 | | | 1782 | 1800 | | | 3870 | 3892 | | | 6300 | 6330 |
| 1300 | 1313 | | | 1800 | 1818 | | | 3875 | 3897 | | | 6480 | 6510 |
| 1312 | 1325 | | | 1807 | 1825 | | | 4000 | 4022 | | | 6500 | 6530 |
| 1320 | 1333 | | | 1832 | 1850 | | | 4060 | 4082 | | | 6700 | 6730 |
| 1337 | 1350 | | | 1857 | 1875 | | | 4100 | 4122 | | | | |
| 1340 | 1353 | | | 1882 | 1900 | | | 4120 | 4142 | | | | |
| 1362 | 1375 | | | 1900 | 1918 | | | 4250 | 4272 | | | | |
| 1387 | 1400 | | | 1907 | 1925 | | | 4260 | 4282 | | | | |
| 1400 | 1413 | | | 1932 | 1950 | | | 4296 | 4318 | | | | |
| 1412 | 1425 | | | 1957 | 1975 | | | 4310 | 4332 | | | | |
| 1420 | 1433 | | | 1982 | 2000 | | | 4318 | 4340 | | | | |
| 1437 | 1450 | | | 2000 | 2018 | | | 4370 | 4392 | | | | |
| | | | | | | | | | | up to 10000 | | up to 12500 | |



# SUPER VS (Variable Speed Belt)

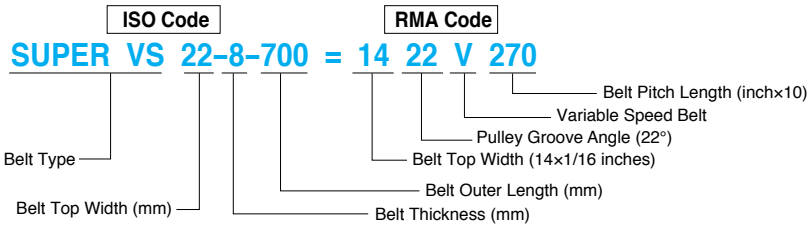
Changes in speed can be accurately, smoothly and quietly transmitted from low to high speed.
High precision and transmission efficiency as well as excellent durability.
Almost no elongation. Excellent oil, heat and lateral pressure resistance.
Specially for high performance and high quality transmission systems.

## Cross-Sectional Dimensions




| a(mm) | b(mm) | θ° |
|---|---|---|
| 30 | 10 | 24 |
| 37 | 12 | 24 |
| 12 | 5 | 24 |
| 16 | 6 | 24 |
| 22 | 8 | 24 |
| 10 | 5 | 24 |
| 12 | 6 | 24 |
| 16 | 8 | 24 |
| 20 | 10 | 24 |
| 20 | 12 | 24 |

## Product Code




## Standard Belt Sizes

| ISO Code | RMA Code |
|---|---|
| 30-10-668 | 1922V256 |
| 30-10-723 | 1922V277 |
| 30-10-733 | 1922V282 |
| 30-10-773 | 1922V298 |
| 30-10-783 | 1922V302 |
| 30-10-813 | 1922V313 |
| 30-10-813 | 1922V314 |
| 30-10-838 | 1922V321 |
| 30-10-863 | 1922V332 |
| 30-10-878 | 1922V338 |
| 30-10-943 | 1922V363 |
| 30-10-988 | 1922V381 |
| 30-10-998 | 1922V386 |
| 30-10-1043 | 1922V403 |
| 30-10-1078 | 1922V417 |
| 30-10-1098 | 1922V426 |
| 30-10-1143 | 1922V443 |
| 30-10-1173 | 1922V454 |
| 30-10-1188 | 1922V460 |
| 30-10-1248 | 1922V484 |
| 30-10-1353 | 1922V526 |
| 30-10-1398 | 1922V544 |
| 30-10-1553 | 1922V604 |
| 30-10-1618 | 1922V630 |
| 30-10-1663 | 1922V646 |
| 30-10-1708 | 1922V666 |
| 30-10-1758 | 1922V686 |
| 30-10-1813 | 1922V706 |
| 30-10-1848 | 1922V721 |
| 30-10-1863 | 1922V726 |
| 30-10-1928 | 1922V751 |
| 30-10-1938 | 1922V756 |
| 30-10-2068 | 1922V806 |
| 30-10-2168 | 1922V846 |

| ISO Code | RMA Code |
|---|---|
| 37-12-855 | 2322V329 |
| 37-12-945 | 2322V364 |
| 37-12-995 | 2322V384 |
| 37-12-1030 | 2322V396 |
| 37-12-1090 | 2322V421 |
| 37-12-1120 | 2322V434 |
| 37-12-1140 | 2322V441 |
| 37-12-1190 | 2322V461 |
| 37-12-1240 | 2322V481 |
| 37-12-1255 | 2322V486 |
| 37-12-1345 | 2322V521 |
| 37-12-1395 | 2322V541 |
| 37-12-1545 | 2322V601 |
| 37-12-1595 | 2322V621 |
| 37-12-1700 | 2322V661 |
| 37-12-1750 | 2322V681 |
| 37-12-1800 | 2322V701 |
| 37-12-1850 | 2322V721 |
| 37-12-2055 | 2322V801 |
| 37-12-2120 | 2322V826 |
| 37-12-2170 | 2322V846 |
| 37-12-2270 | 2322V886 |
| 37-12-2360 | 2322V921 |
| 12-5-451 | 7.522V173 |
| 12-5-501 | 7.522V193 |
| 12-5-551 | 7.522V212 |
| 12-5-571 | 7.522V220 |
| 16-6-513 | 1022V196 |
| 16-6-548 | 1022V210 |
| 16-6-573 | 1022V220 |
| 16-6-578 | 1022V223 |
| 16-6-628 | 1022V247 |

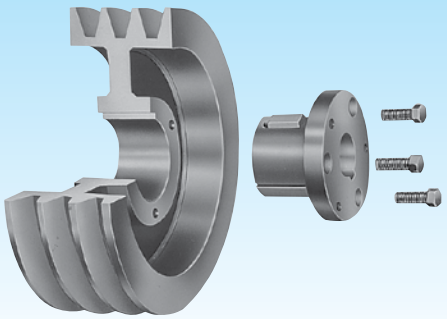
| ISO Code | RMA Code |
|---|---|
| 22-8-615 | 1422V235 |
| 22-8-625 | 1422V240 |
| 22-8-648 | 1422V250 |
| 22-8-700 | 1422V270 |
| 22-8-755 | 1422V290 |
| 22-8-780 | 1422V300 |
| 22-8-855 | 1422V330 |
| 22-8-880 | 1422V340 |
| 22-8-930 | 1422V360 |
| 22-8-1030 | 1422V400 |
| 22-8-1085 | 1422V420 |
| 22-8-1135 | 1422V440 |
| 22-8-1185 | 1422V460 |
| 22-8-1200 | 1422V466 |
| 22-8-1210 | 1422V470 |
| 22-8-1235 | 1422V480 |
| 22-8-1390 | 1422V540 |
| 22-8-1540 | 1422V600 |
| 22-8-1690 | 1422V660 |
| 22-8-1845 | 1422V720 |
| 22-8-1995 | 1422V780 |

| ISO Code |
|---|
| 10-5-450* |
| 10-5-475* |
| 10-5-500* |
| 10-5-525* |
| 10-5-550* |
| 10-5-575* |
| 10-5-600* |
| 10-5-625* |
| 10-5-650* |
| 10-5-675* |
| 10-5-700* |
| 10-5-725* |
| 10-5-750* |
| 12-6-500* |
| 12-6-525* |
| 12-6-550* |
| 12-6-575* |
| 12-6-600* |
| 12-6-625* |
| 12-6-650* |
| 12-6-675* |
| 12-6-700* |
| 12-6-725* |
| 12-6-750* |
| 12-6-775* |
| 12-6-800* |
| 12-6-825* |
| 12-6-850* |
| 12-6-875* |
| 12-6-900* |
| 12-6-925* |
| 12-6-950* |
| 12-6-975* |
| 12-6-1000* |

| ISO Code |
|---|
| 16-8-600* |
| 16-8-625* |
| 16-8-650* |
| 16-8-675* |
| 16-8-700* |
| 16-8-725* |
| 16-8-750* |
| 16-8-775* |
| 16-8-800* |
| 16-8-825* |
| 16-8-850* |
| 16-8-875* |
| 16-8-900* |
| 16-8-925* |
| 16-8-950* |
| 16-8-975* |
| 16-8-1000* |
| 20-10-750* |
| 20-10-800* |
| 20-10-850* |
| 20-10-900* |
| 20-10-950* |
| 20-10-1000* |
| 20-10-1050* |
| 20-10-1100* |
| 20-10-1150* |
| 20-10-1200* |
| 20-10-1250* |
| 20-10-1300* |
| 20-10-1350* |
| 20-10-1400* |
| 20-10-1450* |
| 20-10-1500* |
| 20-10-1550* |

| ISO Code |
|---|
| 20-10-1600* |
| 20-10-1650* |
| 20-10-1700* |
| 20-10-1750* |
| 20-10-1800* |
| 20-10-1850* |
| 20-10-1900* |
| 20-10-1950* |
| 20-10-2000* |
| 20-12-750* |
| 20-12-800* |
| 20-12-850* |
| 20-12-900* |
| 20-12-950* |
| 20-12-1000* |
| 20-12-1050* |
| 20-12-1100* |
| 20-12-1150* |
| 20-12-1200* |
| 20-12-1250* |
| 20-12-1300* |
| 20-12-1350* |
| 20-12-1400* |
| 20-12-1450* |
| 20-12-1500* |
| 20-12-1550* |
| 20-12-1600* |
| 20-12-1650* |
| 20-12-1700* |
| 20-12-1750* |
| 20-12-1800* |
| 20-12-1850* |
| 20-12-1900* |
| 20-12-1950* |
| 20-12-2000* |

Note 1) * = only in ISO Code.
Note 2) Please contact us for sizes beyond the standard size.



# MAXSTAR WEDGE Pulley MB Bushing

**For all wedge pulleys, we adopt a "bushing system" for easy attachment and removal from the shaft with one spanner.**

- Long shaft life as it does not damage the shaft and shaft hole
- No need for additional processing of the shaft hole
- Easy centering and smooth positional change of rotating body such as the pulley
- Possible weight reduction of pulley as small bore width can be applied

**Bushing Pulley Product Code**

450–5V–3–R1

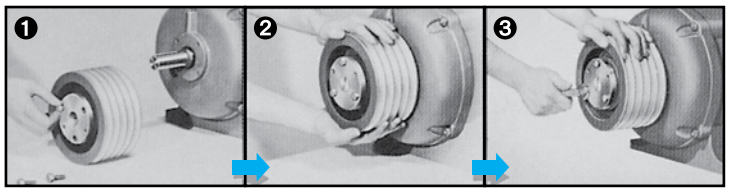
- 450 — Pulley Diameter
- 5V — Belt Type
- 3 — Number of Grooves
- R1 — Bushing Type

## Application chart for MB Bushing on MAXSTAR WEDGE Pulley

| Belt Type | 3V | | | | | | Belt Type | 5V | | | | | | | Belt Type | 8V | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standard Pulley Diameter/Diameter Code(mm) | Number of Grooves | | | | | | Standard Pulley Diameter/Diameter Code(mm) | Number of Grooves | | | | | | | Standard Pulley Diameter/Diameter Code(mm) | Number of Grooves | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | | 2 | 3 | 4 | 5 | 6 | 8 | 10 | | 4 | 6 | 8 | 10 |
| 67 | | | | | | | 150 | | | | | | | | 300 | * | * | | |
| 71 | | | G | | | | 160 | | | | | | | | 315 | | | | * |
| 75 | | | | | | | 170 | | Q1 | | | | | | 335 | | | | * |
| 80 | | | | | | | 180 | | | | | Q2 | * | | 355 | | | | * |
| 85 | | | | | | | 190 | | | | | | * | | 375 | S1 | | U1 | * |
| 90 | | H | | | | | 200 | | | | | | | * | 400 | | | | * |
| 95 | | | | | | | 212 | | | | | | | * | 425 | | | | * |
| 100 | | | | | | | 224 | | | | | | R2 | * | 450 | | | | * |
| 112 | | | | | | | 236 | | | | | | S1 | * | 475 | | | | * |
| 125 | | P1 | | | | | 250 | | | R1 | | | | * | 500 | U0 | | | * |
| 140 | | | | | | | 265 | | | | | | | | 560 | | | | * |
| 150 | | | | | | | 280 | | | | | | S1 | * | 630 | | | | * |
| 160 | | | | | | | 300 | | | | | | | | 710 | | | | * |
| 180 | P1 | | | Q1 | | | 315 | | | | | | | * | 800 | | | | * |
| 200 | | | | | | | 355 | | | | | | | * | 1000 | | | W1 | * |
| 250 | | | | | | | 400 | | | | | S1 | | * | 1250 | * | | | * |
| 315 | | | | | | | 450 | | | | | | | * | 1600 | | | * | * |
| 400 | * | * | | | | | 500 | | | | | | | * | | | * | * | |
| 500 | * | * | | | R1 | | 630 | | | | | | | * | | | | | |
| 630 | | * | * | * | * | * | 800 | | | | | | U1 | * | | | | | |
| | | | | | | | 1000 | | | | | | | * | | | | | |
| | | | | | | | 1250 | | * | * | U0 | * | * | * | | | | | |

* mark signifies nonstocked item

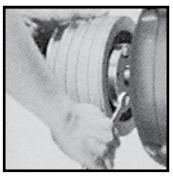
## ● How to mount onto the shaft




❶ Place the bushing in the pulley and loosen bolts by hand.

❷ Attach the bushing pulley onto the shaft (it should fit smoothly).

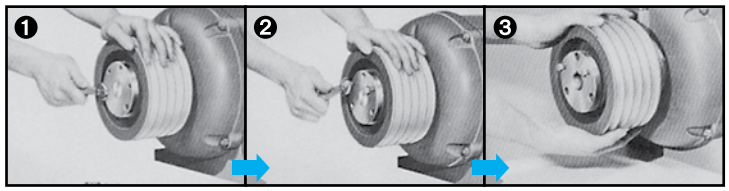
❸ Fasten tight with tightening bolts and fitting is completed.



Mounting bushing pulley is easy even from the opposite side.

1 Fasten bolts evenly.
2 Wear protective gear such as gloves while mounting and removing the pulley. Also, before starting any work, switch off the power and ensure that machine is completely stopped.

## ● How to detach from the shaft




❶ Remove tightening bolts.

❷ Screw the bolts into the taps for flange removal.

❸ Remove the bushing pulley from the shaft.

## ● Bolt Tightening Torque

| Bolt Diameter | Bushing Type | Maximum Tightening Torque |
|---|---|---|
| M 6 | G・H | 9.8 N·m |
| M 8 | P1 | 18.6 N·m |
| M10 | Q1・Q2・R1・R2 | 32.3 N·m |
| M12 | S1 | 69.6 N·m |
| M16 | U0・U1 | 138.2 N·m |
| M20 | W1 | 240.1 N·m |

## Number of Required Belts and Pulley Width

(Unit: mm)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3V·3VX | 18 | 28 | 38 | 49 | 59 | 69 | 80 | 90 | 100 | 111 | 121 | 131 | 141 | 152 | 162 | 172 | 183 | 193 |
| 5V·5VX | 26 | 43 | 61 | 78 | 96 | 113 | 131 | 148 | 166 | 183 | 201 | 218 | 236 | 253 | 271 | 288 | 306 | 323 |
| 8V | 38 | 67 | 96 | 124 | 153 | 181 | 210 | 239 | 267 | 296 | 324 | 353 | 382 | 410 | 439 | 467 | 496 | 525 |

● Pulley width can be derived from e x (no. of belts – 1) + 2f.

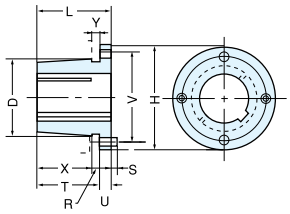
## MB Bushing Size Table

(Unit: mm)

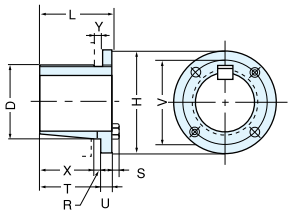
| Bushing Type | Sizes | | | | | | | | | | | Shaft Hole Diameter | | Bolt | | Mass (Average) kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | L | U | T | D | | H | V | W | X | Y | R | S | Type 1 | Type 2 | No. | Type 2 | |
| | | | | Outer Diameter | Inner Diameter | | | | | | | | | | | | |
| G | 25.4 | 6.3 | 19.1 | 29.769 | 28.775 | 50.1 | 39.7 | — | 15.9 | 4.8 | 3.2 | 4 | 10 – 20 | 22 – 25 | 2 | M 6×16 | 0.23 |
| H | 31.7 | 6.3 | 25.4 | 41.275 | 39.888 | 63.2 | 50.8 | — | 22.2 | 4.8 | 3.2 | 4 | 20 – 30 | 32 – 38 | 2 | M 6×20 | 0.34 |
| P1 | 49.2 | 10.3 | 38.9 | 49.213 | 47.132 | 76.2 | 61.9 | 10 | 33.3 | 5.6 | 5.6 | 5.5 | 20 – 35 | 38 – 42 | 3 | M 8×25 | 0.57 |
| Q1 | 63.5 | 13.5 | 50.0 | 73.025 | 70.250 | 104.8 | 85.7 | 12 | 44.4 | 5.6 | 5.6 | 7 | 20 – 50 | 55 – 65 | 3 | M10×35 | 1.6 |
| Q2 | 88.9 | 13.5 | 75.4 | 73.025 | 68.662 | 104.8 | 85.7 | 12 | 69.8 | 5.6 | 5.6 | 7 | 28 – 50 | 55 – 65 | 3 | M10×35 | 2.0 |
| R1 | 73.0 | 15.9 | 57.1 | 101.600 | 98.425 | 136.5 | 117.5 | 20 | 50.8 | 6.3 | 6.3 | 7 | 30 – 70 | 75 – 95 | 3 | M10×40 | 3.4 |
| R2 | 123.8 | 15.9 | 107.9 | 101.600 | 95.250 | 136.5 | 117.5 | 20 | 101.6 | 6.3 | 6.3 | 7 | 38 – 70 | 75 – 90 | 3 | M10×40 | 5.0 |
| S1 | 111.1 | 19.1 | 92.0 | 117.425 | 112.219 | 161.7 | 136.5 | 20 | 84.1 | 7.9 | 7.9 | 8 | 48 – 80 | 85 – 100 | 3 | M12×50 | 6.1 |
| U0 | 125.4 | 19.1 | 106.3 | 152.400 | 146.450 | 212.5 | 117.8 | 32 | 95.2 | 11.1 | 11.1 | 10 | 65 – 100 | 110 – 130 | 3 | M16×65 | 12 |
| U1 | 181.0 | 27.0 | 154.0 | 152.400 | 143.469 | 212.5 | 117.8 | 32 | 142.9 | 11.1 | 11.1 | 10 | 65 – 100 | 110 – 130 | 3 | M16×65 | 18 |
| W1 | 209.5 | 36.5 | 173.0 | 215.900 | 205.781 | 317.4 | 254.0 | 32 | 161.9 | 11.1 | 11.1 | 13 | 90 – 150 | 160 – 190 | 4 | M20×80 | 47 |

**G, H Bushing**

Type 1

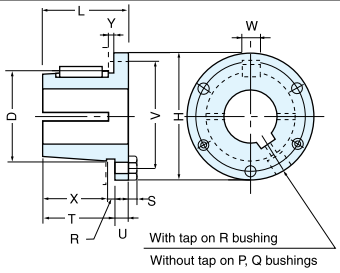



Type 2

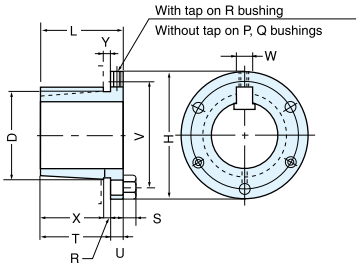



**P1, Q1,Q2,R1,R2 Bushing**

Type 1

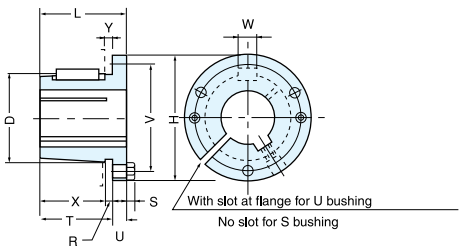



Type 2

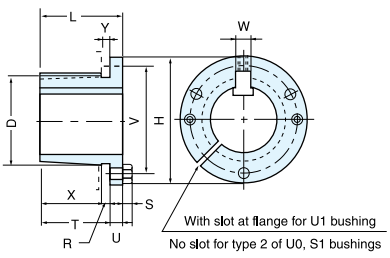



**S1, U0, U1 Bushing**

Type 1

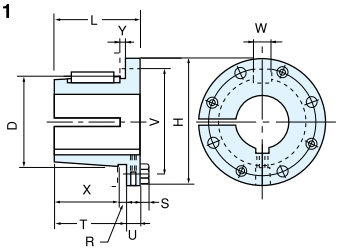



Type 2

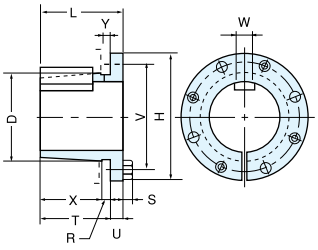


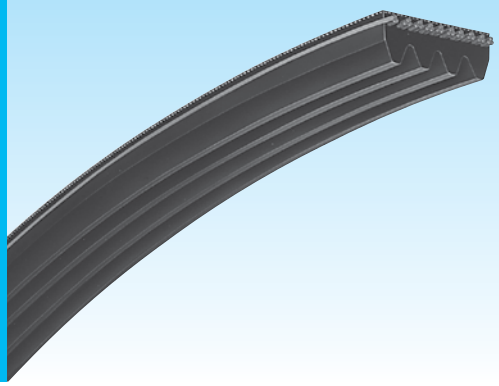

**W1 Bushing**

Type 1




Type 2





# RIBSTAR G (Rubber V-ribbed Belt)

**This belt combines the characteristics of the V-belt's high power transmission capability and the Flat Belt flexibility.**

- High-efficient operation at high speed.
- It can be used on a small diameter pulley because of its high flexibility.
- Excellent heat resistance and abrasion resistance.
- Compact design application.
- Low belt vibration.

## Product Code

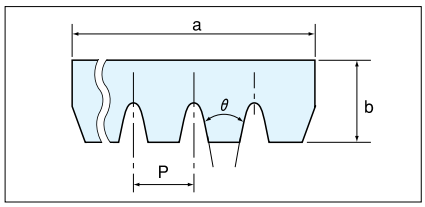
**(Example)** PK type : metric system

**320 J 5** — **5 PK 1500**

- 320: Belt Effective Length (inch) x10
- J: Belt Type
- 5: Number of Ribs
- 5: Number of Ribs
- PK: Belt Type
- 1500: Belt Effective Length (mm)

* Effective Length : The effective outer perimeter

## Cross-Sectional Dimensions



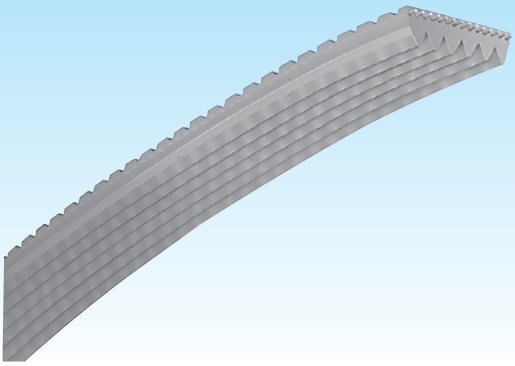

| Sign \ Belt Type | J | PK | L |
|---|---|---|---|
| a (mm) | 2.34×N | 3.56×N | 4.70×N |
| b (mm) | 3.80 | 5.00 | 7.50 |
| P (mm) | 2.34 | 3.56 | 4.70 |
| θ (°) | 40 | 40 | 40 |

* N:Number of ribs

## Standard Sizes for Industrial RIBSTAR Belt

| J | | | | PK | | | | L | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | Effective Length (mm) | Product Code | Effective Length (mm) | Product Code | Effective Length (mm) | Product Code | Effective Length (mm) | Product Code | Effective Length (mm) | Product Code | Effective Length (mm) |
| 180J | 457 | 440J | 1,118 | PK600 | 600 | PK1250 | 1,250 | 345L | 876 | 580L | 1,473 |
| 190J | 483 | 445J | 1,130 | PK615 | 615 | PK1280 | 1,280 | 350L | 889 | 590L | 1,499 |
| 200J | 508 | 450J | 1,143 | PK630 | 630 | PK1320 | 1,320 | 355L | 902 | 600L | 1,524 |
| 210J | 533 | 460J | 1,168 | PK650 | 650 | PK1360 | 1,360 | 360L | 914 | 615L | 1,562 |
| 220J | 559 | 470J | 1,194 | PK690 | 690 | PK1400 | 1,400 | 370L | 940 | 635L | 1,613 |
| 235J | 597 | 480J | 1,219 | PK710 | 710 | PK1450 | 1,450 | 375L | 953 | 650L | 1,651 |
| 240J | 610 | 490J | 1,245 | PK730 | 730 | PK1500 | 1,500 | 380L | 965 | 655L | 1,664 |
| 245J | 622 | 500J | 1,270 | PK750 | 750 | PK1550 | 1,550 | 385L | 978 | 675L | 1,715 |
| 250J | 635 | 510J | 1,295 | PK775 | 775 | PK1600 | 1,600 | 390L | 991 | 680L | 1,727 |
| 260J | 660 | 520J | 1,321 | PK800 | 800 | PK1650 | 1,650 | 395L | 1,003 | 690L | 1,753 |
| 270J | 686 | 525J | 1,334 | PK825 | 825 | PK1700 | 1,700 | 400L | 1,016 | 695L | 1,765 |
| 280J | 711 | 530J | 1,346 | PK850 | 850 | PK1750 | 1,750 | 405L | 1,029 | 725L | 1,842 |
| 285J | 724 | 540J | 1,372 | PK875 | 875 | PK1800 | 1,800 | 410L | 1,041 | 750L | 1,905 |
| 290J | 737 | 550J | 1,397 | PK900 | 900 | PK1850 | 1,850 | 415L | 1,054 | 765L | 1,943 |
| 300J | 762 | 560J | 1,422 | PK925 | 925 | PK1900 | 1,900 | 420L | 1,067 | 770L | 1,956 |
| 310J | 787 | 580J | 1,473 | PK950 | 950 | PK1950 | 1,950 | 425L | 1,080 | 780L | 1,981 |
| 315J | 800 | 590J | 1,499 | PK975 | 975 | PK2000 | 2,000 | 430L | 1,092 | 815L | 2,070 |
| 320J | 813 | 600J | 1,524 | PK1000 | 1,000 | PK2120 | 2,120 | 450L | 1,143 | 835L | 2,121 |
| 330J | 838 | 610J | 1,549 | PK1030 | 1,030 | PK2240 | 2,240 | 460L | 1,168 | 845L | 2,146 |
| 340J | 864 | 620J | 1,575 | PK1060 | 1,060 | PK2360 | 2,360 | 470L | 1,194 | 865L | 2,197 |
| 345J | 876 | 630J | 1,600 | PK1090 | 1,090 | PK2500 | 2,500 | 480L | 1,219 | 880L | 2,235 |
| 350J | 889 | 650J | 1,651 | PK1120 | 1,120 | PK2650 | 2,650 | 500L | 1,270 | 915L | 2,324 |
| 360J | 914 | 660J | 1,675 | PK1150 | 1,150 | PK2800 | 2,800 | 510L | 1,295 | 930L | 2,362 |
| 370J | 940 | 665J | 1,689 | PK1180 | 1,180 | PK3000 | 3,000 | 520L | 1,321 | 975L | 2,477 |
| 375J | 953 | 690J | 1,753 | PK1220 | 1,220 | | | 540L | 1,372 | 990L | 2,515 |
| 380J | 965 | 700J | 1,778 | | | | | 550L | 1,397 | 1065L | 2,705 |
| 390J | 991 | 730J | 1,854 | | | | | 560L | 1,422 | 1120L | 2,845 |
| 400J | 1,016 | 750J | 1,905 | | | | | 565L | 1,435 | 1150L | 2,921 |
| 410J | 1,041 | 760J | 1,930 | | | | | 570L | 1,448 | | |
| 415J | 1,054 | 770J | 1,956 | | | | | | | | |
| 420J | 1,067 | 780J | 1,981 | | | | | | | | |
| 425J | 1,080 | 820J | 2,083 | | | | | | | | |
| 430J | 1,092 | 890J | 2,260 | | | | | | | | |
| 435J | 1,105 | 900J | 2,286 | | | | | | | | |

- Many more sizes are available for PK type. Please contact us for sizes beyond the standard size.



# RIBSTAR U (Polyurethane V-ribbed Belt)

**This polyurethane belt combines the characteristics of both V-belt and Flat Belt.**

- Usable on small diameter pulleys (minimumϕ20mm) because of its high flexibility with nylon cord.
- Excellent flex fatigue resistance.
- Smooth revolution with little vibration.
- Withstands high-speed operation.
- Excellent abrasion, oil and ozone resistance.

## Product Code

(Example)

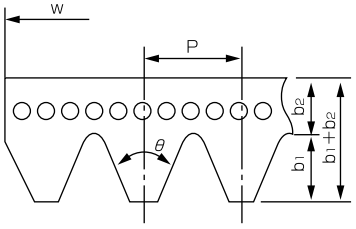
180 - JBT - 4

- 180: Belt Length : Pitch Length (inch) x 10
- JBT: Belt Type
- 4: Number of Ribs (4 ribs)

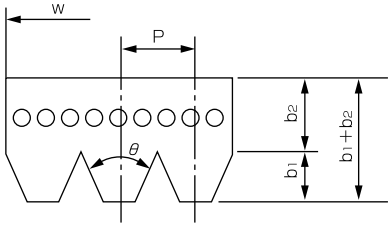
## Cross Sectional Dimensions

| Sectional Size \ Belt Type | | | JT | JBT | HB |
|---|---|---|---|---|---|
| Rib Pitch | P | (mm) | 2.34 | 2.40 | 1.6 |
| Rib Angle | θ | (degree) | 40 | 40 | 40 |
| Rib Height | $b_1$ | (mm) | 1.8 | 1.8 | 1.0 |
| Rib Bottom Thickness | $b_2$ | (mm) | 1.7 | 1.7 | 1.5 |
| Total Thickness | $b_1+b_2$ | (mm) | 3.5 | 3.5 | 2.5 |
| Belt Width | w | (mm) | 2.34×N | 2.40×N | 1.6×N |

N: Number of ribs




JT / JBT Type

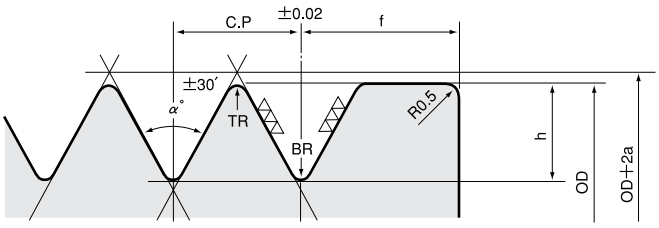



HB Type

## Standard Belt Sizes for JBT Type

| No. of Ribs | Product Code | Pitch Length(mm) | Product Code | Pitch Length(mm) | Product Code | Pitch Length(mm) | Product Code | Pitch Length(mm) |
|---|---|---|---|---|---|---|---|---|
| 3 Ribs | 82 | 208 | 100 | 254 | 135 | 343 | 229 | 582 |
| 4 Ribs | 84 | 213 | 102 | 259 | 175 | 445 | 235 | 597 |
| 5 Ribs | 87 | 221 | 116 | 295 | 179 | 455 | 245 | 622 |
| 6 Ribs | 89 | 226 | 123 | 312 | 180 | 457 | 247 | 627 |
| 8 Ribs | 90 | 229 | 125 | 318 | 212 | 538 | 337 | 856 |
| | 97 | 246 | 130 | 330 | 226 | 573 | | |

## Form and Structure of Pulley Groove




## Groove Dimensions for RIBSTAR Pulley

(Unit: mm)

| Belt Type | C . P | h | α(°) | TR min | BR | 2a | f |
|---|---|---|---|---|---|---|---|
| JT | 2.34 | 2.25 | 40 | 0.2 | 0.3 | 0.76 | 3.5 |
| JBT | 2.40 | 2.34 | 40 | 0.2 | 0.3 | 0.76 | 3.5 |
| HB | 1.6 | 1.52 | 40 | 0.15 | 0.2 | 0.51 | 1.9 |

Pulley Width = (groove number -1) x rib pitch + (f×2)

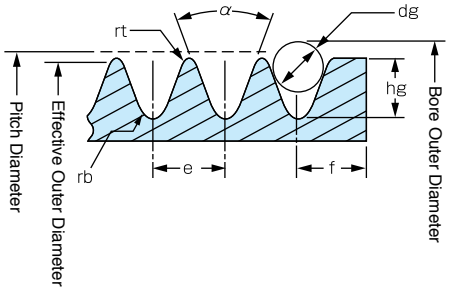


# RIBSTAR Pulley

**Except for a few sizes, RIBSTAR pulleys adopt the “bushing system” for easy attachment and removal as well as easy positioning of pulley onto the shaft.**

**Pulley Product Code** (Example) PK - 160 - 5 - 1210

- PK: Groove Form
- 160: Diameter Code : Effective Outer Diameter (mm)
- 5: Number of Grooves
- 1210: Bushing Product Code




## Pulley Groove Dimensions

Unit: mm

| Groove Form | Belt Type | e | rt | rb max | α(°) | f | hg Reference Value |
|---|---|---|---|---|---|---|---|
| PK | PK | 3.56±0.05 | 0.35±0.08 | 0.5 | 40±0.5 | 5±0.5 | (3.4) |

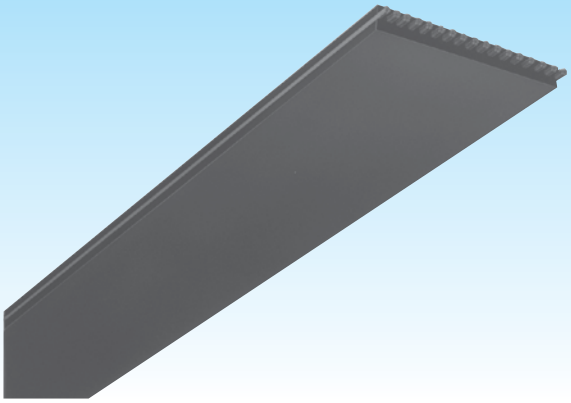
● Accumulated error of groove pitch is below ±0.30.

## Pulley Sizes and Relevant Bushing Product Code

Unit: mm

| Number of Grooves | 4 | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|
| Nominal Diameter (Outer Diameter) | Bushing Product Code | Bushing Product Code | Bushing Product Code | Bushing Product Code | Bushing Product Code | Bushing Product Code |
| 50 | Shaft hole type | Shaft hole type | Shaft hole type | Shaft hole type | — | — |
| 56 | Shaft hole type | Shaft hole type | Shaft hole type | Shaft hole type | — | — |
| 63 | 1108 | 1108 | 1108 | 1108 | — | — |
| 71 | 1108 | 1108 | 1108 | 1108 | — | — |
| 80 | 1210 | 1210 | 1310 | 1310 | 1310 | 1610 |
| 90 | 1210 | 1210 | 1610 | 1610 | 1610 | 1610 |
| 100 | 1210 | 1210 | 1610 | 1610 | 1610 | 1610 |
| 112 | 1610 | 1610 | 1610 | 1610 | 1610 | 2012 |
| 125 | 1610 | 1610 | 1610 | 2012 | 2012 | 2012 |
| 140 | 1610 | 1610 | 1610 | 2012 | 2012 | 2012 |
| 160 | 1610 | 1610 | 2012 | 2012 | 2012 | 2517 |
| 180 | 1610 | 1610 | 2012 | 2517 | 2517 | 2517 |
| 200 | 2012 | 2012 | 2012 | 2517 | 2517 | 3020 |
| 224 | 2012 | 2012 | 2012 | 2517 | 2517 | 3020 |
| 250 | 2012 | 2012 | 2012 | 2517 | 2517 | 3020 |
| 280 | 2012 | 2012 | 2012 | 2517 | 2517 | 3020 |
| 315 | 2012 | 2517 | 2517 | 3020 | 3020 | 3020 |
| 355 | 2012 | 2517 | 3020 | 3020 | 3020 | 3020 |

● Up to 30m/sec of pulley rim speed is enabled. Please do not exceed 30m/sec.

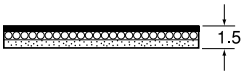
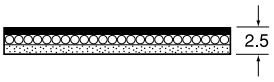
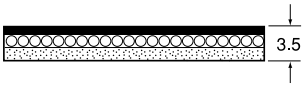


# FLEXSTAR Belt

**Large power transmission enables compact design application and cost reduction.**

- Smooth and quiet operation with low vibration. Withstands operation at a maximum speed of 60m/sec
- Excellent heat resistance, oil resistance and antistatic properties
- Almost no need for re-tension with low elongation

## Cross-Sectional Dimensions & Product Code

| Belt Type | Thickness (mm) | Standard Belt Width (mm) | Product Code |
|---|---|---|---|
| FL |   | 10, 15, 20, 25, 30, 35, 40, 50 | Example<br>40 FM 1500<br>Belt Length(mm)<br>Belt Type<br>Belt Width(mm) |
| FM |   | 20, 30, 40, 50, 60, 80, 100 | |
| FH |   | 50, 75, 100, 125, 150, 175, 200 | |

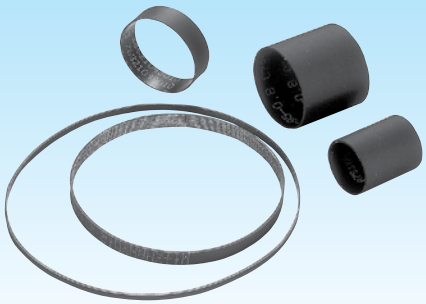
● In addition, a belt known as FLEG for transportation is also available. Belt thickness of FLEG is 1.3mm.

## Standard Belt Sizes

| Belt Length (mm) | FL | FM | FH | Belt Length (mm) | FL | FM | FH | Belt Length (mm) | FL | FM | FH | Belt Length (mm) | FL | FM | FH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 200 | ○ | | | 560 | ○ | ○ | | 1000 | ○ | ○ | ○ | 1800 | ○ | ○ | ○ |
| 224 | ○ | | | 600 | ○ | ○ | | 1060 | ○ | ○ | ○ | 1900 | ○ | ○ | ○ |
| 250 | ○ | | | 630 | ○ | ○ | | 1120 | ○ | ○ | ○ | 2000 | ○ | ○ | ○ |
| 280 | ○ | | | 670 | ○ | ○ | | 1180 | ○ | ○ | ○ | 2240 | | ○ | ○ |
| 315 | ○ | | | 710 | ○ | ○ | | 1250 | ○ | ○ | ○ | 2500 | | ○ | ○ |
| 355 | ○ | | | 750 | ○ | ○ | | 1320 | ○ | ○ | ○ | 2800 | | ○ | ○ |
| 400 | ○ | | | 800 | ○ | ○ | ○ | 1400 | ○ | ○ | ○ | 3150 | | ○ | ○ |
| 450 | ○ | | | 850 | ○ | ○ | ○ | 1500 | ○ | ○ | ○ | 3550 | | ○ | ○ |
| 500 | ○ | ○ | | 900 | ○ | ○ | ○ | 1600 | ○ | ○ | ○ | 4000 | | ○ | ○ |
| 530 | ○ | ○ | | 950 | ○ | ○ | ○ | 1700 | ○ | ○ | ○ | | | | |

## Applications

| General Industrial Machinery | Machine Tool | Woodworks Machinery | Textile Machine | Paper Manufacturing Machinery | Electric Equipment | Other kinds of machinery |
|---|---|---|---|---|---|---|
| Various fans<br>Blower<br>Various pumps<br>Compression machine<br>Pulverizer<br>Compressor<br>Mixer<br>Centrifuge<br>Various press<br>Mill | Lathe<br>NC lathe<br>Milling machine<br>Grinder<br>Various polishing machines<br>Slotter<br>Planer<br>Hobbing machine<br>Drilling machine<br>Boring machine<br>Shaver<br>Shirring machine<br>Power press<br>Friction press | Router machine<br>Bandsaw<br>Chipper | Winder<br>Draw texturizing machine<br>Assemble winder<br>Yarn twisting machine<br>Twister<br>Various spinning and weaving machines | Paper machine<br>Rotary paper machine<br>Holding feeder<br>Packing sorting machine<br>Paper tube machine | Generator<br>Computer<br>Power planer<br>Auto dryer | Grinding mill<br>Printing machine<br>Precision equipment<br>Leisure facilities<br>Chemical equipment<br>Automatic vending machine<br>Money changing machine<br>Copier<br>Paper feeder<br>Ticketing machine |



# FLEXSTAR Belt J

**FLEXSTAR Belt J is a thin, flexible and seamless high-precision flat belt, developed specially for conveyance of tickets, plastic cards, paper money, coins and etc.**

- Good running stability
- Reliable conveyance
- Excellent abrasion resistance and adaptability
- Maintenance-free

## Product Code

(Example)

10 - JLB - 500 - 1.0

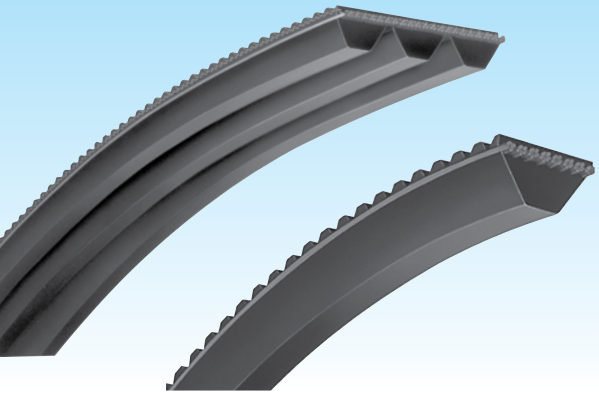
- 10 — Belt Width (mm)
- JLB — Belt Type
- 500 — Belt Length (mm)
- 1.0 — Belt Thickness (mm)

## Product Lineup

| Model | Spec | Application | Standard Belt Sizes * | | | Tension Member Material | Rubber Material | Fabric Material | Surface Condition | | Min. Pulley Diameter (mm) | Tensile Strength [N/10mm Width] | Elongation at break [%] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Belt Width Range (mm) | Belt Thickness (mm) | Belt Length Range (mm) | | | | Outer | Inner | | | |
| Ultra High Modulus Model | J8GA | Light-duty power transmission, Ticket/Card/Paper conveyance | 3~100 | 0.65 / 0.85 | 155~2000 | Glass | CR | Nylon | Abrasive | Fabric | 10 | ≧1300 | 4.5≧ |
| | J8GE | Light-duty power transmission, Ticket/Card/Paper conveyance | 3~100 | 0.65 / 0.85 | 155~2000 | Glass | EPDM | Nylon | Abrasive | Fabric | 10 | ≧1300 | 4.5≧ |
| | J8GD | Light-duty power transmission | 3~100 | 1.3 | 155~2000 | Glass | CR | Nylon | Rubber Soaked | Glossy | 10 | ≧1300 | 4.5≧ |
| | J8GC1 | Ceramic chip conveyance | 3~100 | 0.70 | 155~2000 | Glass | H-NBR | Nylon | Fabric | Rubber Soaked | 10 | ≧1300 | 4.5≧ |
| | J8GC2 | Ceramic chip conveyance | 3~100 | 0.62 | 155~2000 | Glass | H-NBR | Nylon | Fabric | Rubber Soaked | 10 | ≧1300 | 4.5≧ |
| | J8GC5 | Ceramic chip conveyance | 3~100 | 0.57 | 155~2000 | Glass | CR | Nylon | Fabric | Rubber Soaked | 10 | ≧1300 | 4.5≧ |
| High Modulus Model | J8H | Light-duty power transmission, Ticket/Card/Paper conveyance | 3~30 | 0.65 / 1.00 | 100~3000 | Polyester | H-NBR | - | Abrasive | Glossy | 10 | ≧450 | 10±3 |
| | J8HB | Light-duty power transmission, Ticket/Card/Paper conveyance | 3~30 | 0.65 / 1.00 | 100~1000 | Polyester | H-NBR | - | Abrasive | Glossy | 10 | ≧450 | 10±3 |
| | J6H | Light-duty power transmission, Ticket/Card/Paper conveyance | 6~30 | 0.65 / 1.00 | 100~3000 | Polyester | H-NBR | - | Abrasive | Glossy | 10 | ≧300 | 10±3 |
| | J6HB | Light-duty power transmission, Ticket/Card/Paper conveyance | 6~30 | 0.65 / 1.00 | 100~1000 | Polyester | H-NBR | - | Abrasive | Glossy | 10 | ≧300 | 10±3 |
| | J3H | Light-duty power transmission, Ticket/Card/Paper conveyance | 8~30 | 0.65 / 1.00 | 100~3000 | Polyester | H-NBR | - | Abrasive | Glossy | 10 | ≧150 | 10±3 |
| | J3HB | Light-duty power transmission, Ticket/Card/Paper conveyance | 8~30 | 0.65 / 1.00 | 100~1000 | Polyester | H-NBR | - | Abrasive | Glossy | 10 | ≧150 | 10±3 |
| Low Modulus Model | JL | Ticket/Card/Paper conveyance | 5~30 | 0.7 / 1.0 | 60~2500 | Nylon | H-NBR | - | Abrasive | Glossy | 8 | ≧150 (1.0mm thickness) | 400±100 |
| | JL3 | Ticket/Card/Paper conveyance | 8~40 | 0.65 / 0.80 / 1.00 / 2.00 | 60~798 | Polyester | H-NBR | - | Abrasive | Glossy | 8 | ≧120 (1.0mm thickness) | 200±100 |
| | JLB | Ticket/Card/Paper conveyance | 5~30 | 0.7 / 1.0 | 60~2500 | Nylon | H-NBR | - | Glossy | Abrasive | 8 | ≧150 (1.0mm thickness) | 400±100 |
| | JLU5 | Ticket/Card/Paper conveyance | 8~40 | 0.65 / 0.80 / 1.00 / 2.00 | 80~1025 | Polyester | Millable Urethane | - | Glossy | Abrasive | 8 | ≧70 | 120±35 |
| | JLU6-N | Coin conveyance | 8~40 | 0.82 / 1.00 / 2.00 | 100~776 | Polyester | Millable Urethane | - | Pattern Molded | Abrasive | 8 | 170 | 130±25 |
| | JLU6-D | Coin conveyance | 8~40 | 0.82 / 1.00 / 2.00 | 247~775 | Polyester | Millable Urethane | - | Pattern Molded | Glossy | 8 | 170 | 130±25 |
| All Rubber Model | JN | Ticket/Card/Paper/Coin conveyance | 4~30 | 1.0 / 2.0 / 3.0 / 4.0 | 60~1200 | - | H-NBR | - | Abrasive | Glossy | 8 | ≧48 (1.0mm thickness) | 435±50 |

* Contact us for non-standard size.

Values in above table are nominal values, only for reference.



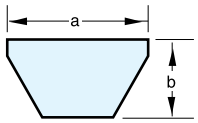
# POLYMAX

**This is a wide-angle belt with an angle of approx. 60° .**

- High-speed power transmission with low vibration
- Compact design and cost efficient
- Maintenance-free and stretch resistance
- Excellent weather resistance
- MATCHED SET is available for both single and MULTI belts.
  Ask for MATCHED SET to improve the performance of multi set system.

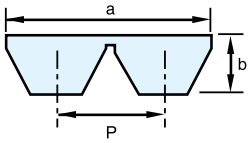
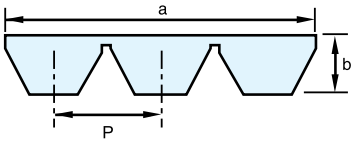
## Cross Sectional Dimensions & Product Code

### POLYMAX Belt

| Type | 3M | 5M | 7M | 11M |
|---|---|---|---|---|
| | 2.8×2.0mm | 4.5×3.4mm | 7.5×5.5mm | 11×7mm |
| Dimensions (a x b) |  | | | |
| Product Code | 7M 1000 — Effective Length(mm); Belt Type | | | |



### Multi-POLYMAX Belt

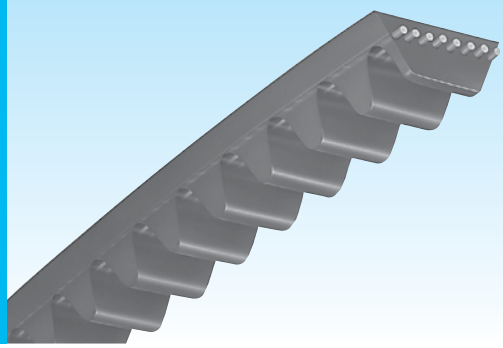
| No.of Ribs | 2 | | | 3 | | |
|---|---|---|---|---|---|---|
| Belt Type | 5M | 7M | 11M | 5M | 7M | 11M |
| a | 9.8 | 15.6 | 24.4 | 15.1 | 24.1 | 37.6 |
| b | 3.4 | 5.3 | 7.0 | 3.4 | 5.3 | 7.0 |
| P | 5.3 | 8.5 | 13.2 | 5.3 | 8.5 | 13.2 |
| Dimensions |  | | |  | | |
| Product Code | 3R - 5M 1320 — Effective Length(mm); Belt Type; Number of Ribs | | | | | |



## Standard Belt Sizes

| 3M | | 5M | | 7M | | 11M | |
|---|---|---|---|---|---|---|---|
| 3M180 | 3M425 | 5M280 | ＊5M 670 | ＊7M 500 | ＊7M1180 | ＊11M 710 | ＊11M1700 |
| 3M185 | 3M437 | 5M290 | ＊5M 690 | ＊7M 515 | ＊7M1220 | ＊11M 730 | ＊11M1750 |
| 3M190 | 3M450 | 5M300 | ＊5M 710 | ＊7M 530 | ＊7M1250 | ＊11M 750 | ＊11M1800 |
| 3M195 | 3M462 | 5M307 | ＊5M 730 | ＊7M 545 | ＊7M1280 | ＊11M 775 | ＊11M1850 |
| 3M200 | 3M475 | 5M315 | ＊5M 750 | ＊7M 560 | ＊7M1320 | ＊11M 800 | ＊11M1900 |
| 3M206 | 3M487 | 5M325 | ＊5M 775 | ＊7M 580 | ＊7M1360 | ＊11M 825 | ＊11M1950 |
| 3M212 | 3M500 | 5M335 | ＊5M 800 | ＊7M 600 | ＊7M1400 | ＊11M 850 | ＊11M2000 |
| 3M218 | 3M515 | 5M345 | ＊5M 805 | ＊7M 615 | ＊7M1450 | ＊11M 875 | ＊11M2060 |
| 3M224 | 3M530 | 5M355 | ＊5M 825 | ＊7M 630 | ＊7M1500 | ＊11M 900 | ＊11M2120 |
| 3M230 | 3M545 | 5M365 | ＊5M 850 | ＊7M 650 | ＊7M1550 | ＊11M 925 | ＊11M2180 |
| 3M236 | 3M560 | 5M375 | ＊5M 875 | ＊7M 670 | ＊7M1600 | ＊11M 950 | ＊11M2240 |
| 3M243 | 3M580 | 5M387 | ＊5M 900 | ＊7M 690 | ＊7M1650 | ＊11M 975 | ＊11M2300 |
| 3M250 | 3M600 | 5M400 | ＊5M 925 | ＊7M 710 | ＊7M1700 | ＊11M1000 | |
| 3M258 | 3M615 | 5M412 | ＊5M 950 | ＊7M 730 | ＊7M1750 | ＊11M1030 | |
| 3M265 | 3M630 | 5M425 | ＊5M 975 | ＊7M 750 | ＊7M1800 | ＊11M1060 | |
| 3M272 | 3M650 | 5M437 | ＊5M1000 | ＊7M 775 | ＊7M1850 | ＊11M1090 | |
| 3M280 | 3M670 | 5M450 | ＊5M1030 | ＊7M 800 | ＊7M1900 | ＊11M1120 | |
| 3M290 | 3M690 | 5M462 | ＊5M1060 | ＊7M 825 | ＊7M1950 | ＊11M1150 | |
| 3M300 | 3M710 | 5M475 | ＊5M1090 | ＊7M 850 | ＊7M2000 | ＊11M1180 | |
| 3M307 | 3M730 | 5M487 | ＊5M1120 | ＊7M 875 | ＊7M2060 | ＊11M1220 | |
| 3M315 | 3M750 | ＊5M500 | ＊5M1150 | ＊7M 900 | ＊7M2120 | ＊11M1250 | |
| 3M325 | | ＊5M515 | ＊5M1180 | ＊7M 925 | ＊7M2180 | ＊11M1280 | |
| 3M335 | | ＊5M530 | ＊5M1220 | ＊7M 950 | ＊7M2240 | ＊11M1320 | |
| 3M345 | | ＊5M545 | ＊5M1250 | ＊7M 975 | ＊7M2300 | ＊11M1360 | |
| 3M355 | | ＊5M560 | ＊5M1280 | ＊7M1000 | | ＊11M1400 | |
| 3M365 | | ＊5M580 | ＊5M1320 | ＊7M1030 | | ＊11M1450 | |
| 3M375 | | ＊5M600 | ＊5M1360 | ＊7M1060 | | ＊11M1500 | |
| 3M387 | | ＊5M615 | ＊5M1400 | ＊7M1090 | | ＊11M1550 | |
| 3M400 | | ＊5M630 | ＊5M1450 | ＊7M1120 | | ＊11M1600 | |
| 3M412 | | ＊5M650 | ＊5M1500 | ＊7M1150 | | ＊11M1650 | |
| | | | ＊5M1850 | | | | |

＊indicates availability of Multi- POLYMAX

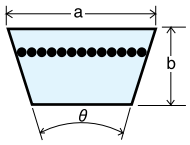


# MB Belt (Polyurethane V-belt)

A small transparent belt for light-duty power transmission

- With its high flexibility, it can be used with a small diameter pulley.
- Excellent abrasion resistance and clean operation
- Small slippage
- Excellent oil resistance

## Cross Sectional Dimensions & Product Code

| Belt Type | Single Cog | Product Code |
|---|---|---|
| Belt Form | MB | Example |
| **Top Width a (mm)** | 6.0 | |
| Height b (mm) | 4.0 | MB-360 |
| Angle θ (° ) | 40 | Belt Length (Outer Perimeter in mm) |
| **Dimensions** (a x b) |  | Belt Type |



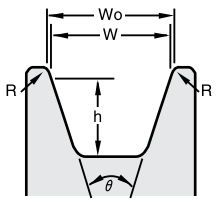
## Standard Belt Sizes

| Belt Form | MB | | | |
|---|---|---|---|---|
| Belt Type | Single Cog | | | |
| a×b (mm) | 6.0×4.0 | | | |
| Belt Length | 250 | 340 | 400 | 500 |
| | 260 | 345 | 410 | 510 |
| | 270 | 350 | 420 | 520 |
| | 280 | 360 | 430 | 530 |
| | 290 | 365 | 440 | 540 |
| | 300 | 370 | 450 | 550 |
| | 310 | 380 | 460 | 560 |
| | 315 | 385 | 470 | 640 |
| | 320 | 390 | 480 | 760 |
| | 330 | 395 | 490 | |

## Form & Dimensions of Pulley Grooves

unit : mm

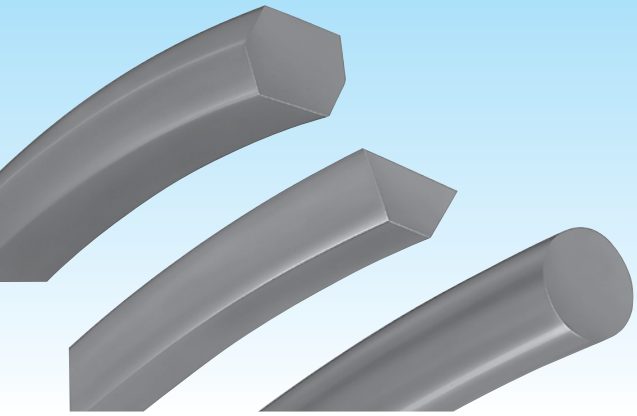
| Belt / Pulley Diameter | MB Belt Height 4.0mm | | | | Wo Reference (min) |
|---|---|---|---|---|---|
| | Min. Width(W) | Min. Height(h) | θ | R | |
| 16~30mm | 5.4 | 4.5 | 36° | 0.8 | 5.6 |
| 30mm and above | 5.4 | 4.5 | 38° | 0.8 | 5.6 |





## Minimum Pulley Diameter

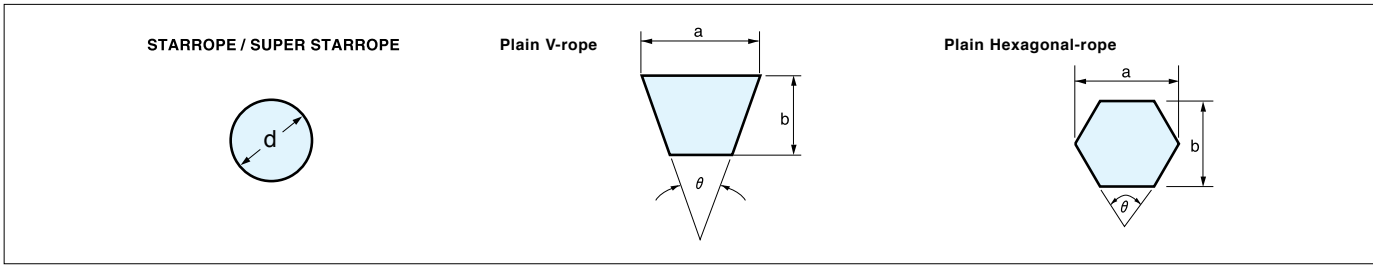
| Belt Type | Single Cog |
|---|---|
| Minimum Pulley Diameter (mm) | 18 |



# STARROPE / SUPER STARROPE / Plain V-rope/Plain Hexagonal-rope

**Open-end type polyurethane belt.**

- It is easily applicable in complex power transmission system such as multiaxial and divertible power transmission.
- Easy to join and adjust length by heat welding.
- Excellent abrasion and oil resistance




## STARROPE/ SUPER STARROPE Cross Sectional Dimensions

| Belt Code | φ2 | φ3 | φ4 | φ5 | φ6 | φ7 | φ8 | φ9 | φ10 | φ12 | φ15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d (mm) | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 15 |
| Length(m/roll) | 200 | 200 | 200 | 200 | 100 | 100 | 100 | 100 | 100 | 50 | 50 |

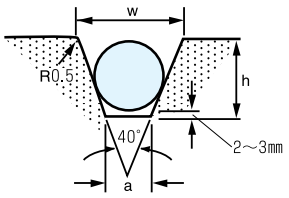
## Plain V-rope Cross Sectional Dimensions

| Dimensions \ Belt Type | M | A | B |
|---|---|---|---|
| a (mm) | 10.0 | 12.5 | 16.5 |
| b (mm) | 5.5 | 8.5 | 10.5 |
| θ (°) | 40 | 40 | 40 |
| Length (m/roll) | 100 | 50 | 50 |

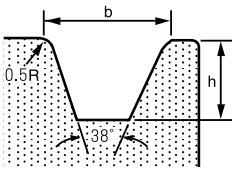
## Plain Hexagonal-rope Cross Sectional Dimensions

| Dimensions \ Belt Type | AA | BB |
|---|---|---|
| a (mm) | 12.5 | 16.5 |
| b (mm) | 10.0 | 12.5 |
| θ (°) | 40 | 40 |
| Length (m/roll) | 50 | 50 |

## Pulley for STARROPE/ SUPER STARROPE




## Pulley for Plain V-rope/Plain Hexagonal-rope




| Dimensions \ Belt Type | Plain V-rope | | | Plain Hexagonal-rope | |
|---|---|---|---|---|---|
| | M | A | B | AA | BB |
| b (mm) | 9.7 | 12.3 | 16.3 | 12.3 | 16.3 |
| h (mm) | 9.0 | 12.5 | 15.0 | 12.5 | 15.0 |

●Dimensions of V pulley are specified by JIS-B1854.

## Pulley Dimensions for STARROPE / SUPER STARROPE

| Dimensions \ Belt Code | φ2 | φ3 | φ4 | φ5 | φ6 | φ7 | φ8 | φ9 | φ10 | φ11 | φ12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| a (mm) | 0.6 | 0.6 | 0.6 | 1.3 | 2.0 | 2.7 | 3.4 | 4.1 | 4.8 | 6.2 | 8.3 |
| w (mm) | 2.9 | 4.3 | 5.7 | 7.1 | 8.6 | 10.0 | 11.4 | 12.9 | 14.3 | 17.1 | 21.4 |
| h (mm) | 3.0 | 5.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 15.0 | 18.0 |

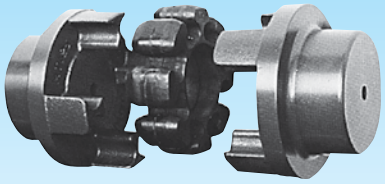
# Ⅲ Direct Connected Power Transmission

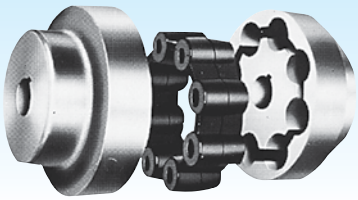

HYPERFLEX™ Coupling ..... P57

TSCHAN™ Coupling Nor-Mex™ ..... P58, 59

TSCHAN™ Coupling S..... P60


※ "TSCHAN" and "Nor-Mex" are trademarks of RINGFEDER POWER TRANSMISSION TSCHAN GMBH.





# HYPERFLEX™ Coupling (MT · MH)

**MT type and MH type are available.**
**MT type is a compression stress type, which enables compact design with large transmission torque.**
**MH type model uses shearing stress of elastic rubber.**

MT Type
- Applicable for all kinds of applications.
- Compact size with large transmission torque.
- Easy-to-install and maintenance-free
- The polyurethane elastic body, which features excellent oil and abrasion resistance.

MH Type
- High flexibility and excellent shock absorption
- Applicable as a torque limiter

## Coupling Product Code

(Example) MT - G - 85

Type
Elastic Body: Rubber
Size

## Standard Sizes for MT Type

| Product Code | Regular Maximum Torque (N.m) | | Maximum Revolution Speed (rpm) | Outer Diameter (mm) | Total Length (mm) |
|---|---|---|---|---|---|
| | Rubber (G) | Polyurethane(U) | | | |
| MT- 50 | 5.88 | 7.85 | 6,000 | 50 | 58 |
| MT- 60 | 9.81 | 14.7 | 6,000 | 60 | 72 |
| MT- 70 | 15.7 | 24.5 | 6,000 | 70 | 75 |
| MT- 85 | 34.3 | 49.0 | 5,500 | 85 | 101 |
| MT-100 | 53.9 | 78.5 | 5,500 | 100 | 115 |
| MT-125 | 118 | 196 | 4,400 | 125 | 147 |
| MT-140 | 157 | 245 | 4,200 | 140 | 160 |
| MT-170 | 314 | 441 | 3,800 | 170 | 176 |
| MT-185 | 441 | 588 | 3,800 | 185 | 193 |
| MT-200 | 637 | 883 | 3,600 | 200 | 217 |
| MT-225 | 980 | 1370 | 3,600 | 225 | 238 |

● Use MT type coupling when there is torque variation, forward reverse operation, shock, etc.

## Standard Sizes for MH Type

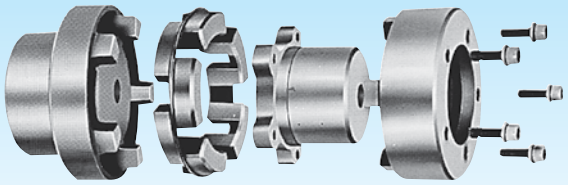
| Product Code | Regular Maximum Torque (N.m) | | Maximum Revolution Speed (rpm) | Outer Diameter (mm) | Total Length (mm) |
|---|---|---|---|---|---|
| | Standard | Super※1 | | | |
| MH- 45 | 0.98 | 1.96 | 6,000 | 45 | 49 |
| MH- 55 | 1.96 | 3.92 | 6,000 | 55 | 57 |
| MH- 65 | 3.92 | 6.86 | 6,000 | 65 | 63 |
| MH- 80 | 8.83 | 15.7 | 5,500 | 80 | 73 |
| MH- 90 | 10.8 | 36.3 | 5,000 | 90 | 83 |
| MH-115 | 29.4 | 78.5 | 4,600 | 115 | 113 |
| MH-130 | 37.3 | 118.0 | 4,400 | 130 | 123 |
| MH-145 | 58.8 | 196.0 | 4,200 | 145 | 133 |
| MH-175 | 147.0 | 422.0 | 3,800 | 175 | 163 |
| MH-200 | 245.0 | 637.0 | 3,600 | 200 | 223 |

※1: MH Super type is the one with reinforcement iron core.
● Use MT type coupling when there is torque variation, forward reverse operation, shock, etc.

## Applications

- Various pumps
- Fan
- Blower
- Compression machine
- Compressor
- Reducer
- Speed changer
- Mixer
- Generator
- Machine tools
- Chemical equipment
- Wood works machine
- Textile machine
- Paper making machine
- Conveyor system
- Injection molding system
- Construction machine
- Car wash machine

# TSCHAN™ Coupling Nor-Mex™



It consists of a flange and a unique shape elastic body, which withstands large transmission torque. 20 types available and 301 total combinations.

- Energy-saving since it transmits large torque with small body.
- Suitable for machineries with high-speed revolution
- Elastic body can be easily attached and removed without moving machinery.
- Compact design application, quiet operation and also maintenance-free.
- Wide variety of sizes and types.

## Coupling Product Code

(Example) Nor - Mex G 148

Model — Nor - Mex

G Type — G

Size — 148

## Standard Sizes

| G | | | | | | LG | | | | | | FG | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Regular Torque TN N·m | Max. Torque Mmax N·m | Max. Revolution Speed rpm | Outer Diameter mm | Total Length mm | Code | Regular Torque TN N·m | Max. Torque Mmax N·m | Max. Revolution Speed rpm | Outer Diameter mm | Total Length mm | Code | Regular Torque TN N·m | Max. Torque Mmax N·m | Max. Revolution Speed rpm | Outer Diameter mm | Total Length mm |
| G 82 | 49 | 88.3 | 8000 | 82 | 91.5 | LG 82-120 | 49 | 88.3 | 8000 | 120 | 67.5 | FG 82 | 49 | 88.3 | 8000 | 82 | 80 |
| G 97 | 103 | 186 | 7000 | 97 | 113 | LG 97-144 | 103 | 186 | 7000 | 144 | 83 | FG 97 | 103 | 186 | 7000 | 97 | 92.5 |
| G112 | 164 | 294 | 6000 | 112 | 133 | LG112-158 | 164 | 294 | 6000 | 158 | 95 | FG112 | 164 | 294 | 6000 | 112 | 110 |
| G128 | 262 | 471 | 5000 | 128 | 153.5 | LG128-180 | 262 | 471 | 5000 | 180 | 108.5 | FG128 | 262 | 471 | 5000 | 128 | 121.5 |
| G148 | 409 | 735 | 4500 | 148 | 175.5 | LG148-200 | 409 | 735 | 4500 | 200 | 123.5 | FG148 | 409 | 735 | 4500 | 148 | 140.5 |
| G168 | 682 | 1230 | 4000 | 168 | 197.5 | LG168-220 | 682 | 1230 | 4000 | 220 | 141.5 | FG168 | 682 | 1230 | 4000 | 168 | 159 |
| G194 | 1100 | 1960 | 3500 | 194 | 220.5 | LG194-248 | 1100 | 1960 | 3500 | 248 | 158.5 | FG194 | 1100 | 1960 | 3500 | 194 | 177.5 |
| G214 | 1640 | 2940 | 3000 | 214 | 243 | LG214-274 | 1640 | 2940 | 3000 | 274 | 175 | FG214 | 1640 | 2940 | 3000 | 214 | 195.5 |
| G240 | 2620 | 4710 | 2750 | 240 | 266 | LG240-314 | 2620 | 4710 | 2750 | 314 | 191 | FG240 | 2620 | 4710 | 2750 | 240 | 212.5 |
| G265 | 4090 | 7350 | 2500 | 265 | 309.5 | LG265-344 | 4090 | 7350 | 2500 | 344 | 219.5 | FG265 | 4090 | 7350 | 2500 | 265 | 245.5 |
| G295 | 5440 | 9810 | 2250 | 295 | 334 | LG295-380 | 5440 | 9810 | 2250 | 380 | 236 | FG295 | 5440 | 9810 | 2250 | 295 | 264 |
| G330 | 7080 | 12700 | 2000 | 330 | 356 | LG330-430 | 7080 | 12700 | 2000 | 430 | 252 | FG330 | 7080 | 12700 | 2000 | 330 | 282.5 |
| G370 | 9900 | 17800 | 1750 | 370 | 399 | (LG370-480) | 9900 | 17800 | 1750 | 480 | 281 | FG370 | 9900 | 17800 | 1750 | 370 | 313 |
| G415 | 14700 | 26500 | 1500 | 415 | 441 | (LG415-575) | 14700 | 26500 | 1500 | 575 | 306 | FG415 | 14700 | 26500 | 1500 | 415 | 343 |
| (G480) | 19600 | 35300 | 1400 | 480 | 485 | | | | | | | | | | | | |
| (G575) | 29400 | 53000 | 1200 | 575 | 525 | | | | | | | | | | | | |

| E | | | | | | LE | | | | | | FE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Regular Torque TN N·m | Max. Torque Mmax N·m | Max. Revolution Speed rpm | Outer Diameter mm | Total Length mm | Code | Regular Torque TN N·m | Max. Torque Mmax N·m | Max. Revolution Speed rpm | Outer Diameter mm | Total Length mm | Code | Regular Torque TN N·m | Max. Torque Mmax N·m | Max. Revolution Speed rpm | Outer Diameter mm | Total Length mm |
| E 50 | 12.7 | 22.6 | 13500 | 50 | 52 | | | | | | | | | | | | |
| E 67 | 21.6 | 39.2 | 10000 | 67 | 62.5 | LE 67-106 | 21.6 | 39.2 | 10000 | 106 | 47.5 | | | | | | |
| E 82 | 49.0 | 88.3 | 8000 | 82 | 83 | LE 82-120 | 49.0 | 88.3 | 8000 | 120 | 59 | FE 82 | 49.0 | 88.3 | 8000 | 82 | 71.5 |
| E 97 | 103 | 186 | 7000 | 97 | 103 | LE 97-144 | 103 | 186 | 7000 | 144 | 73 | FE 97 | 103 | 186 | 7000 | 97 | 82.5 |
| E112 | 164 | 294 | 6000 | 112 | 123.5 | LE112-158 | 164 | 294 | 6000 | 158 | 85.5 | FE112 | 164 | 294 | 6000 | 112 | 100.5 |
| E128 | 262 | 471 | 5000 | 128 | 143.5 | LE128-180 | 262 | 471 | 5000 | 180 | 98.5 | FE128 | 262 | 471 | 5000 | 128 | 111.5 |
| E148 | 409 | 735 | 4500 | 148 | 163.5 | LE148-200 | 409 | 735 | 4500 | 200 | 111.5 | FE148 | 409 | 735 | 4500 | 148 | 128.5 |
| E168 | 682 | 1230 | 4000 | 168 | 183.5 | LE168-220 | 680 | 1230 | 4000 | 220 | 127.5 | FE168 | 682 | 1230 | 4000 | 168 | 145 |
| E194 | 1100 | 1960 | 3500 | 194 | 203.5 | LE194-248 | 1100 | 1960 | 3500 | 248 | 141.5 | FE194 | 1100 | 1960 | 3500 | 194 | 160.5 |
| E214 | 1640 | 2940 | 3000 | 214 | 224 | LE214-274 | 1640 | 2940 | 3000 | 274 | 156 | FE214 | 1640 | 2940 | 3000 | 214 | 176.5 |
| E240 | 2620 | 4710 | 2750 | 240 | 244 | LE240-314 | 2620 | 4710 | 2750 | 314 | 169 | FE240 | 2620 | 4710 | 2750 | 240 | 190.5 |
| E265 | 4090 | 7350 | 2500 | 265 | 285.5 | LE265-344 | 4090 | 7350 | 2500 | 344 | 195.5 | FE265 | 4090 | 7350 | 2500 | 265 | 221.5 |
| E295 | 5440 | 9810 | 2250 | 295 | 308 | LE295-380 | 5440 | 9810 | 2250 | 380 | 210 | FE295 | 5440 | 9810 | 2250 | 295 | 238 |
| E330 | 7080 | 12700 | 2000 | 330 | 328 | (LE330-430) | 7080 | 12700 | 2000 | 430 | 224 | FE330 | 7080 | 12700 | 2000 | 330 | 254.5 |
| E370 | 9900 | 17800 | 1750 | 370 | 368 | (LE370-480) | 9900 | 17800 | 1750 | 480 | 250 | FE370 | 9900 | 17800 | 1750 | 370 | 282 |
| E415 | 14700 | 26500 | 1500 | 415 | 408 | (LE415-575) | 14700 | 26500 | 1500 | 575 | 273 | FE415 | 14700 | 26500 | 1500 | 415 | 310 |

Sizes in ( ) are made-to-order.

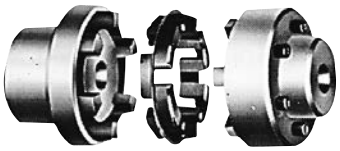
✻"TSCHAN" and "Nor-Mex" are trademarks of RINGFEDER POWER TRANSMISSION TSCHAN GMBH.

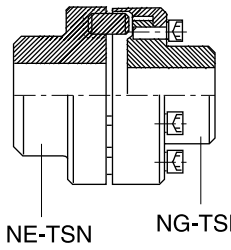
# TSCHAN™ Coupling Nor-Mex™ Series

## Applications

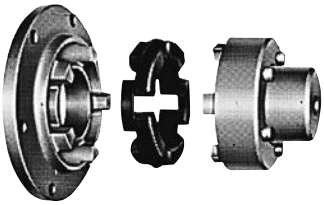
- Water pump
- Hydraulic pump
- Blower
- Injection molding machine
- Paper manufacturing machine
- Compressor
- Rotary compressor
- Screw compressor
- Plate feeder
- Batcher plant
- Ball mill
- Hydraulic pump
- Blower
- Injection molding machine
- Paper manufacturing machine

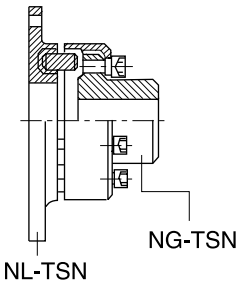
### G Type



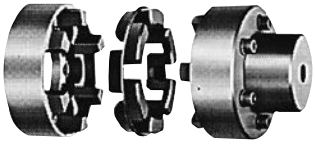


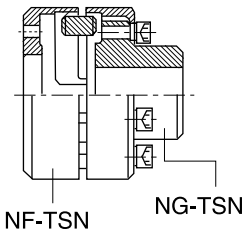

### LG Type



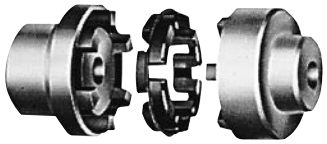


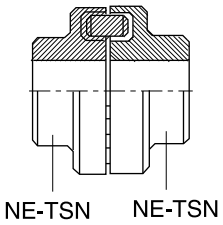

### FG Type



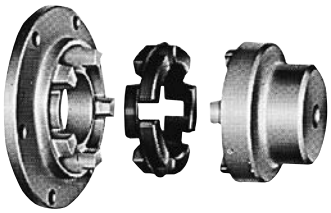


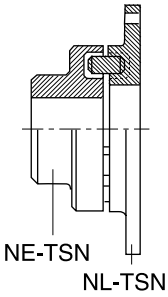

### E Type



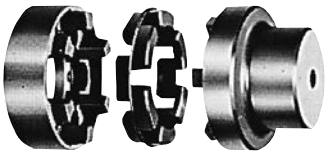


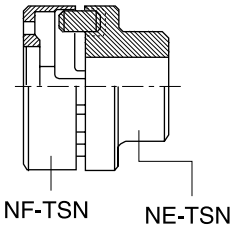

### LE Type





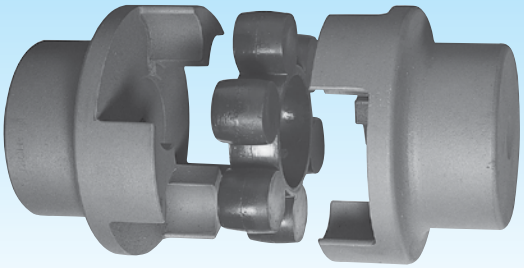

### FE Type






※ "TSCHAN" and "Nor-Mex" are trademarks of RINGFEDER POWER TRANSMISSION TSCHAN GMBH.

# TSCHAN™ Coupling S



- Small size with large torque
- Light, compact and easy to install and remove
- Suitable for machinery with high revolution speed
- Quiet operation and longer operating life
- Maintenance-free

## Applications

- Crane
- Hot run table
- NC mill
- Machining center
- Food manufacturing machinery
- Industrial sewing machine
- Centrifuge
- Generator
- Conveyor drive
- Screw compressor
- Water pump
- Two-way blower

## Coupling Product Code

(Example) S 200 St - U

- S: Model
- 200: Size
- St: Flange Material
- U: Elastic Body: Polyurethane

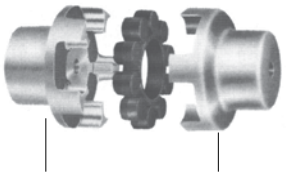
## Standard Sizes for TSCHAN™ Coupling S

| S | | | | | SX | | | | SV | | | | SZ | | | Maximum No. of Revolution Nmax (rpm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Maximum Torque Mmax(N·m) Elastic Body | | Outer Diameter mm | Total Length mm | Code | Outer Diameter | | Total Length mm | Code | Outer Diameter | | Total Length mm | Code | Outer Diameter mm | Total Length mm | | |
| | Rubber | Polyurethane | | | | ST mm | ZA mm | | | VS mm | ZA mm | | | | | Aℓ | St |
| (S 30 Aℓ) | 5.79 | 11.8 | 30 | 35 | | | | | | | | | | | | 16000 | — |
| (S 40 Aℓ) | 12.7 | 26.5 | 40 | 50 | | | | | | | | | | | | 12000 | — |
| S 50 St | 17.7 | 35.3 | 50 | 75 | | | | | | | | | | | | — | 15000 |
| S 70 St | 69.6 | 137 | 70 | 100 | | | | | | | | | | | | — | 11000 |
| S 85 St | 98 | 196 | 85 | 110 | | | | | | | | | | | | — | 9000 |
| S 100 St | 167 | 343 | 105 | 125 | SX 100 St/Aℓ | 105 | 145 | 84.5 | SV 100 Aℓ/St | 105 | 145 | 50 | SZ 100 Aℓ | 145 | 44 | 7250 | 7250 |
| S 125 St | 304 | 628 | 126 | 145 | SX 125 St/Aℓ | 126 | 170 | 97 | SV 125 Aℓ/St | 126 | 170 | 57 | SZ 125 Aℓ | 170 | 49 | 6000 | 6000 |
| S 145 St | 510 | 1040 | 145 | 160 | SX 145 St/Aℓ | 145 | 194 | 109 | SV 145 Aℓ/St | 145 | 194 | 65 | SZ 145 Aℓ | 194 | 58 | 5250 | 5250 |
| S 170 St | 790 | 1630 | 170 | 190 | SX 170 St/Aℓ | 170 | 220 | 126.5 | SV 170 Aℓ/St | 170 | 220 | 75 | SZ 170 Aℓ | 220 | 63 | 4500 | 4500 |
| S 200 St | 1380 | 2820 | 200 | 245 | SX 200 St/Aℓ | 200 | 252 | 156.5 | SV 200 Aℓ/St | 200 | 252 | 85 | SZ 200 Aℓ | 252 | 68 | 3750 | 3750 |
| S 230 St | 2140 | 4360 | 230 | 270 | SX 230 St/Aℓ | 230 | 290 | 171 | SV 230 Aℓ/St | 230 | 290 | 90 | SZ 230 Aℓ | 290 | 72 | 3250 | 3250 |
| S 260 St | 3350 | 6850 | 260 | 285 | SX 260 St/Aℓ | 260 | 335 | 187.5 | SV 260 Aℓ/St | 260 | 335 | 110 | SZ 260 Aℓ | 335 | 90 | 3000 | 3000 |
| S 300 St | 4960 | 10100 | 300 | 330 | SX 300 St/Aℓ | 300 | 385 | 218.5 | SV 300 Aℓ/St | 300 | 385 | 130 | SZ 300 Aℓ | 385 | 107 | 2500 | 2500 |
| S 360 St | 8200 | 16700 | 360 | 417 | SX 360 St/Aℓ | 360 | 455 | 271.5 | SV 360 Aℓ/St | 360 | 455 | 175 | SZ 360 Aℓ | 455 | 126 | 2150 | 2150 |
| S 400 St | 11300 | 22900 | 400 | 400 | SX 400 St/Aℓ | 400 | 514 | 265 | SV 400 Aℓ/St | 400 | 514 | 180 | SZ 400 Aℓ | 514 | 130 | 1900 | 1900 |

Sizes in ( ) are not standard stocked items.
Material of coupling flange Aℓ: Aluminum alloy
St: Steel

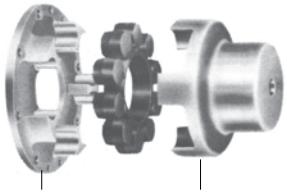
## Combination Examples of Standard Types

**S Type**



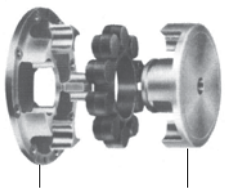
ST-TSN ST-TSN

**SX Type**



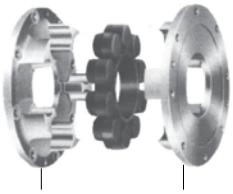
ZA-TSN ST-TSN

**SV Type**



ZA-TSN VS-TSN

**SZ Type**



ZA-TSN ZA-TSN

✻"TSCHAN" is a trademark of RINGFEDER POWER TRANSMISSION TSCHAN GMBH.

# Ⅳ Troubleshooting for Power Transmission Products

For Timing Belt ..... P62

For V-belt ..... P63

● Failure during machinery operation is a serious matter. To resolve belt failure, determine cause of failure before replacing with a new belt. This will maximize the capability of the belt and extend its life.
The following is an introduction to belt failure main causes.
Please check the items in this table when failure occurs.

## 1. For Timing Belt

| Occurrence | Cause | Measure |
|---|---|---|
| Abnormal side wear | ● Poor alignment | Adjust the alignment |
| | ● Base not adequately fixed | Strengthen the base fixture |
| | ● Bending of the pulley flange | Correct flange bending |
| Abnormal wear at tooth surface where pressure is being exerted | ● Overload | Amend the design and use better grade |
| | ● Overstretched belt | Adjust the initial tension of the belt |
| Abnormal wear at contact point of pulley area | ● Overstretched belt | Adjust the initial tension of the belt |
| | ● Defective pulley tooth form | Replace using special attention on the R of the pulley tooth end |
| Tooth damage | ● Pulley diameter too small | Change the system design |
| | ● 6 teeth or less for T.I.M | Increase T.I.M or change the system design |
| | ● Exertion of shock load | Ensure that shock is not exerted on the belt or increase the belt width |
| Breaking of tensile body | ● Overload | Change the system design |
| | ● Drop in elasticity or corrosion of tensile body | Check the storage condition and transport condition of the belt |
| | ● Exertion of shock load | Ensure that shock is not exerted on the belt or increase the belt width |
| Crack at the back side | ● Usage under -30°C | Raise the surrounding temperature |
| | ● Pulley diameter too small | Use a bigger diameter pulley |
| Thermal ageing of rubber/ polyurethane | ● Temperature of 80°C and above at the rubber/ polyurethane | Reduce the surrounding temperature |
| Swelling of the rubber | ● Oil contamination | Use polyurethane or oil resistant rubber belt |
| Abnormal wear at pulley tooth | ● Overload | Change the system design |
| | ● Overstretched belt | Adjust the initial tension of the belt |
| | ● Unsuitable pulley material (too soft) | Add surface treatment or change the material of pulley |
| Wear at pulley edge | ● Pulley life | Change to a new pulley |
| | ● Overstretched belt (Tensile body can be seen underneath the belt) | Change to new pulley and belt while loosening the tension |
| Abnormal operation sounds | ● Poor alignment | Adjust the alignment |
| | ● Overstretched belt | Adjust the initial tension of the belt |
| | ● Overload | Change the system design |
| | ● Pulley diameter too small | Change the system design |
| | ● Defective pulley tooth form | Ensure that pulley tooth is accordance to standard dimensions |
| Belt looks elongated | ● Short inter-shaft distance | Adjust to the correct inter-shaft distance |
| | ● Loosening of the base | Strengthen the base fixture |

## 2. For V-belt

| Occurrence | Cause | Measure |
|---|---|---|
| Slippage | ● Loose belt tension | Apply appropriate tension |
| | ● Overload | Increase belt width or increase the number of belt in use. |
| | ● Minimum contact angle | Widen belt width or install an idler pulley of the appropriate diameter |
| | ● Oil or water contamination | Completely remove the oil and water and prevent further contamination by placing the belt cover |
| Early failure | ● Load variation/ large shock<br>● Use the belt above its transmission capacity<br>● Belts not mounted according to the specified number of belts<br>● Not using the specified belt type | While there are design elements to be altered, the specified type and number of belts should be installed (Depending on the application, please upgrade the belt specification by 1 level) |
| | ● High heat generated and large flex fatigue (overly small pulley diameter/ bending angle and high revolution speed) | Take counter-measure on heat dissipation or change the system design - alter the pulley diameter, revolution speed, bending angle |
| | ● Tension loss and slippage | Apply appropriate tension |
| Crack | ● Tension loss and slippage | Apply appropriate tension |
| | ● Use under high temperature | Take counter-measure on heat dissipation |
| | ● Continuous sudden stoppage and start-up | Change the system design |
| | ● Oil contamination | Fix oil leak and prevent oil contamination |
| | ● Pulley diameter too small<br>● Too strong reverse bending due to backside tension | Change the system design |
| | ● Direct exposure to sunlight | Install belt cover |
| Base crack | ● Tension pulley diameter too small | Use a larger diameter tension pulley |
| | ● Small bending angle | Decrease the bending angle |
| | ● Loose tension and occurrence of slippage | Apply appropriate tension |
| Wear | ● Rusty pulley groove or rough finishing of pulley groove surface | Perform uniform finishing on the pulley groove surface (Standard 12S to 6S) |
| | ● Tension loss and slippage | Apply appropriate tension |
| | ● Inappropriate pulley installation angle<br>● Defective pulley form<br>● Inappropriate pulley groove angle | Change alignment to 1/3°and below or replace the pulley |
| | ● Damage on pulley groove | Replace the pulley |
| Excessive vibration | ● Resonance due to unstable fixture of machine body | Secure the fixtures |
| | ● Weak belt tension | Change inter-shaft distance |
| | ● Belt lengths not uniform | Use matched set |
| Peeling | ● Belt used beyond its transmission capacity | Mount belts with the right specification, type, number |
| | ● Usage under deformed condition<br>● Usage method resulted in large flex fatigue | Change the system design |
| Noise problem | ● Sudden stop and start during usage | Consider changing the system design for smooth operation |
| | ● Belt tension too loose | Apply appropriate tension |
| | ● Overload | Increase belt width or increase the number of belt in use. |
| | ● Wrong belt type | Select belt type, specification that matches the operating conditions |
| Overturning of belt | ● Inappropriate pulley groove angle, installation angle | Change alignment to 1/3°and below |
| | ● Pulley groove damage or sticking of belt due to roughly finished surface<br>● Wear at pulley groove | Replace the pulley |
| | ● Belt lengths not uniform during multiple usage | Use matched set |

# 2. CONVEYOR BELTS

**LIGHT CONVEYOR Belts ..... P66**

**FREESPAN Belts ..... P80**

# LIGHT CONVEYOR Belts

## Food grade Light Conveyor Belts

Thanks to a long experience in development closely with OEMs and end customers, Mitstuboshi has introduced a variety of unique products realizing high-quality hygienic & reliable solutions, focusing on food safety and production efficiency. Mirror Surface belt, Low-Shrinkage belt, Hybrid Silicone belt, are just a few examples of our outstanding tailormade solutions which suits to your specific needs.

## Industrial grade Light Conveyor Belts

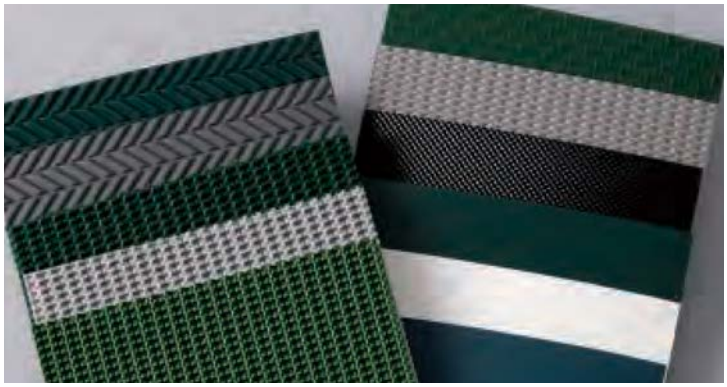
We support manufacturing and logistic in a wide variety of industries and application. Our belts can be used in all sorts applications like logistic, transport of mechanical parts, steel plates, building material boards, etc. providing reliable and efficient solutions.

## Materials



### TPU belts (Thermoplastic Polyurethane)

High flexibility and good temperature resistance make it suitable for multiple uses. Being non-toxic and not allowing migration of plasticizers is ideal material for food industry. Antibacterial and hot water resistant belt type also available.

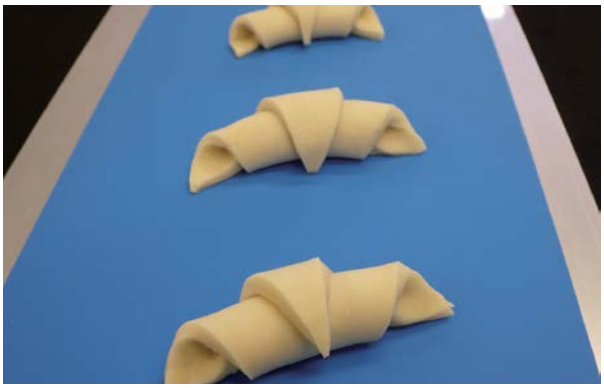


### PVC belts (Polyvinyl Chloride)

Full range of products that fits in a wide-range of applications.
Excellent abrasion, ozone, oil and chemical resistance.

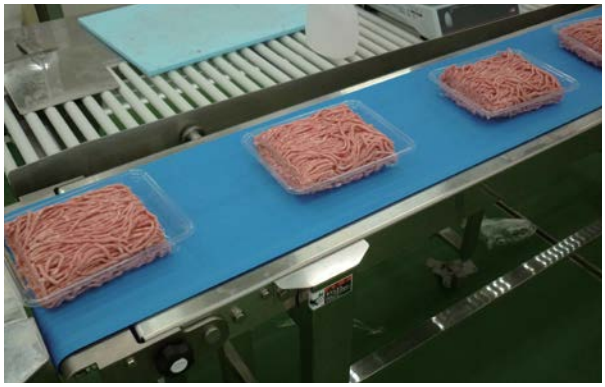
# APPLICATION EXAMPLES

## Food grade









## Industrial grade





# PRODUCT CODE

**Light conveyor code** — **NS 8 2 U FG 0 / 5 W S**

**Admissible tension (N/mm)**

**Number of plies**

**Material**

U: Polyurethane V: PVC

**Features**

G: Non-fray
F: Antibacterial, antifungal
H: Low Friction
P: Sideslip (palletizer)
K: Inclined conveying
R: Curved conveyor
E: Oil resistant
B: Bakery (cotton fabric)

T: Trough, non-fray
C: Sodium hypochlorite resistant
X: Wide width

**Bottom cover thickness (1/10mm)**

**Top cover thickness (1/10mm)**

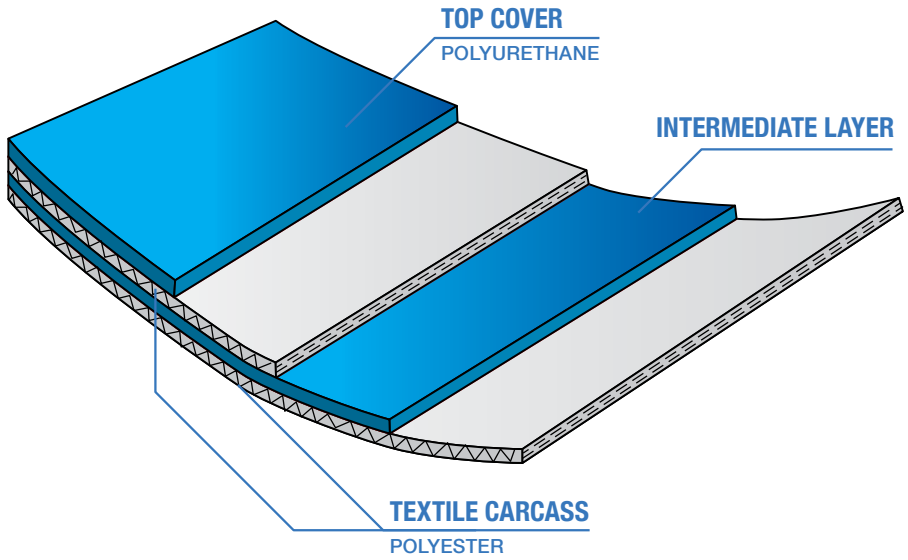
**Colour**

W: White (Ivory)
BL: Skyblue
LG: Lime green
N: Transparent
G: Green
BK: Black
YG: Yellow green
DB: Dark blue
GY: Gray

**Pattern**

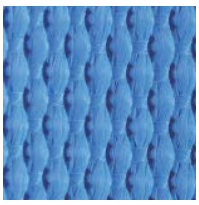
R: Texture (thin)
S: Texture (coarse)
T: Longitudinal groove
M: Diamond
CC: Circular cone
WV: Wave
TT: Herringbone
A: Groove
D: Deep Groove
BW: Basket weave
SS: Rough top

P: Two-sided smooth
PTFE: Fluororesin
HS: Hybrid Silicone
SI: Silicone coating



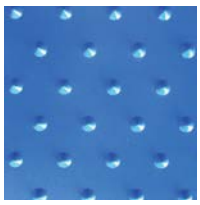

# SURFACE PATTERNS

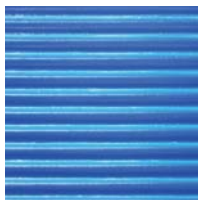

R: Texture (thin)


S: Texture (coarse)


T: Longitudinal groove


M: Diamond


CC: Circular cone

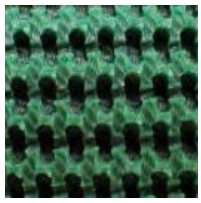

WV: Wave


TT: Herringbone


A: Groove


D: Deep Groove


BW:Basket weave


SS:Rough top

# Food grade TPU

| Product Code | Product Construction | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Conveying Side | | | Driving Side | Plies | Admissible Tension | Belt Thickness | |
| | Material *1 | Colour | Surface | Material | Nr. | N/m | mm | kg/㎡ |
| ANTIBACTERICAL, ANTIFUNGAL - STANDARD | | | | | | | | |
| MX081W | TPU | White | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.8 |
| MX082W | TPU | White | Smooth | fabric (PET) | 2 | 5 | 1.2 | 1.2 |
| NS32UFG0/2W | TPU | White | Smooth | fabric (PET) | 2 | 3 | 1.3 | 1.3 |
| NS32UFG0/2BL | TPU | SkyBlue | Smooth | fabric (PET) | 2 | 3 | 1.3 | 1.3 |
| NS41UFG0/2W | TPU | White | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| NS41UFG0/2BL | TPU | SkyBlue | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| NS41UFG0/2WR | TPU | White | Texture(thin) | fabric (PET) | 1 | 4 | 1.0 | 0.9 |
| NS41UFG2/2W | TPU | White | Smooth | TPU | 1 | 4 | 1.1 | 1.0 |
| NS82UFG0/2W | TPU | White | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| NS82UFG0/5W | TPU | White | Smooth | fabric (PET) | 2 | 8 | 1.7 | 1.9 |
| NS82UFG0/5BL | TPU | SkyBlue | Smooth | fabric (PET) | 2 | 8 | 1.7 | 1.9 |
| NS82UFG0/5WS | TPU | White | Texture(coarse) | fabric (PET) | 2 | 8 | 2.0 | 1.9 |
| NS82UFG2/2W | TPU | White | Smooth | TPU | 2 | 8 | 1.7 | 1.9 |
| NS123UFG0/5W | TPU | White | Smooth | fabric (PET) | 3 | 12 | 2.5 | 2.6 |
| ANTIBACTERICAL, ANTIFUNGAL - TROUGHED | | | | | | | | |
| NS82UFT0/2W | TPU | White | Smooth | fabric (PET) | 2 | 8 | 1.6 | 1.6 |
| NS82UFT2/2WP | TPU | White | Smooth | TPU | 2 | 8 | 1.8 | 2.0 |
| NS82UFT2/2WR | TPU | White | Texture(thin) | TPU | 2 | 8 | 2.0 | 2.0 |
| NS82UF2/2WP | TPU | White | Smooth | TPU | 2 | 8 | 1.7 | 2.0 |
| ANTIBACTERICAL,ANTIFUNGAL - CURVE BELT | | | | | | | | |
| NS41UFR0/5W | TPU | White | Smooth | fabric (PET) | 1 | 4 | 1.0 | 1.1 |
| NS41UFR0/5BL | TPU | SkyBlue | Smooth | fabric (PET) | 1 | 4 | 1.0 | 1.1 |
| NS82UFR0/2W | TPU | White | Smooth | fabric (PET) | 2 | 8 | 1.5 | 1.6 |
| MIRROR SURFACE | | | | | | | | |
| MX718W | TPU | White | Mirror | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| MX718BL | TPU | SkyBlue | Mirror | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| MX718LG | TPU | Lime Green | Mirror | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| MX719W | TPU | White | Mirror | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| MX719BL | TPU | SkyBlue | Mirror | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| MX719LG | TPU | Lime Green | Mirror | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| MX722W | TPU | White | Mirror | fabric (PET) | 2 | 3 | 1.4 | 1.4 |
| LOW SHRINKAGE | | | | | | | | |
| MX333W | TPU | White | Smooth | low shrinkage fabric | 2 | 3 | 1.1 | 1.2 |
| MX333BL | TPU | SkyBlue | Smooth | low shrinkage fabric | 2 | 3 | 1.1 | 1.2 |
| MX333WS | TPU | White | Texture(coarse) | low shrinkage fabric | 2 | 3 | 1.7 | 1.5 |
| MX333BLS | TPU | SkyBlue | Texture(coarse) | low shrinkage fabric | 2 | 3 | 1.7 | 1.5 |
| MIRROR SURFACE / LOW SHRINKAGE | | | | | | | | |
| MX733W | TPU | White | Mirror | low shrinkage fabric | 2 | 3 | 1.1 | 1.2 |
| SODIUM HYPOCHLORITE RESISTANT | | | | | | | | |
| NS82UCG0/2W | TPU | Ivory | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| SODIUM HYPOCHLORITE RESISTANT / LOW SHRINKAGE | | | | | | | | |
| MX333CW | TPU | Ivory | Smooth | low shrinkage fabric | 2 | 3 | 1.1 | 1.2 |
| MX733CBL | TPU | SkyBlue | Mirror | low shrinkage fabric | 2 | 3 | 1.1 | 1.2 |

*1 TPU: Thermoplastic Polyurethane, PET: Polyethylene Terephthalate

# PRODUCT RANGE

| Technical Data | | | | | Property | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt weight | Standard splice type | Minimum Pulley Diameter | Minimum Knife edge R | Permissible operating temperature | Antibacterial antifungal | Non-fray | Hot water cleaning compatible | Table support | Low noise | Max. production width | Product Code |
| - | - | mm | mm | °C | | | | | | mm | |
| | Finger | 10 | R5 | -30~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX081W |
| | Finger | 25 | R3 | -30~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX082W |
| | Finger | 10 | R2 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS32UFG0/2W |
| | Finger | 10 | R2 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS32UFG0/2BL |
| | Finger | 10 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS41UFG0/2W |
| | Finger | 10 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS41UFG0/2BL |
| | Finger | 10 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS41UFG0/2WR |
| | Finger | 15 | - | -30~80 | ○ | ○ | ○ | - | - | 1200 | NS41UFG2/2W |
| | Finger | 25 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS82UFG0/2W |
| | Finger | 50 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS82UFG0/5W |
| | Finger | 50 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS82UFG0/5BL |
| | Finger | 50 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS82UFG0/5WS |
| | Finger | 40 | - | -30~80 | ○ | ○ | ○ | - | - | 1200 | NS82UFG2/2W |
| | Lap | 100 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS123UFG0/5W |
| | Lap | 40 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS82UFT0/2W |
| | Lap | 50 | - | -30~80 | ○ | ○ | ○ | - | - | 1200 | NS82UFT2/2WP |
| | Lap | 50 | - | -30~80 | ○ | ○ | ○ | - | - | 1200 | NS82UFT2/2WR |
| | Finger | 40 | - | -30~80 | ○ | - | - | - | - | 1200 | NS82UF2/2WP |
| | Finger | 10 | R5 | -30~80 | ○ | - | - | ○ | - | 1200 | NS41UFR0/5W |
| | Finger | 10 | R5 | -30~80 | ○ | - | - | ○ | - | 1200 | NS41UFR0/5BL |
| | Finger | 25 | - | -30~80 | ○ | - | - | ○ | - | 1200 | NS82UFR0/2W |
| | Finger | 10 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | MX718W |
| | Finger | 10 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | MX718BL |
| | Finger | 10 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | MX718LG |
| | Finger | 25 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | MX719W |
| | Finger | 25 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | MX719BL |
| | Finger | 25 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | MX719LG |
| | Finger | 15 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | MX722W |
| | Finger | 10 | R2 | -30~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX333W |
| | Finger | 10 | R2 | -30~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX333BL |
| | Finger | 15 | - | -30~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX333WS |
| | Finger | 15 | - | -30~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX333BLS |
| | Finger | 15 | R3 | -30~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX733W |
| | Finger | 25 | R3 | -5~80 | ○ | ○ | ○ | ○ | - | 1200 | NS82UCG0/2W |
| | Finger | 15 | R5 | -5~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX333CW |
| | Finger | 15 | R3 | -5~80 | ○ | ○ | ○ | ○ | ○ | 1200 | MX733CBL |

# Food grade TPU

| Product Code | Product Construction | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Conveying Side | | | Driving Side | Plies | Admissible Tension | Belt Thickness | |
| | Material *1 | Colour | Surface | Material | Nr. | N/m | mm | kg/m² |
| OIL RESISTENT | | | | | | | | |
| NS41UEG0/2W | TPU | White | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| NS82UEG0/2W | TPU | White | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| OIL RESISTENT / MIRROR SURFACE | | | | | | | | |
| MX717W | TPU | White | Mirror | fabric (PET) | 2 | 3 | 1.4 | 1.4 |
| HIGH RELEASE - PTFE COATED | | | | | | | | |
| NS32UCG0/3PTFE | PTFE | Light brown | Smooth | fabric (PET) | 2 | 3 | 1.5 | 1.7 |
| HIGH RELEASE - HYBRID SILICONE | | | | | | | | |
| MX993W | HS | White | Special pattern | low shrinkage fabric | 2 | 3 | 1.0 | 1.0 |
| MX993BL | HS | SkyBlue | Special pattern | low shrinkage fabric | 2 | 3 | 1.0 | 1.0 |
| NS32UG0/0HSW | fabric (PET) | White | HS coating | fabric (PET) | 2 | 3 | 1.0 | 1.0 |
| NS41U0/0HSBL | fabric (PET) | SkyBlue | HS coating | fabric (PET) | 1 | 4 | 0.5 | 0.3 |
| NS52U0/0HSBL | fabric (PET) | SkyBlue | HS coating | fabric (PET) | 2 | 5 | 1.0 | 0.9 |
| HIGH RELEASE - SILICONE COATED | | | | | | | | |
| NS32UEG0/3SI | Silicone | White | Smooth | fabric (PET) | 2 | 3 | 1.4 | 1.5 |
| HIGH RELEASE - TPU | | | | | | | | |
| NS32UB0/0 | fabric (cotton) | White | - | fabric (PET) | 2 | 3 | 1.4 | 1.3 |
| NS41UFHG0/2W | TPU | White | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| NS82UFHG0/2W | TPU | White | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| NS82UFHG0/2BL | TPU | SkyBlue | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| NS32UFHG0/5WM | TPU | White | Diamond | fabric (PET) | 2 | 3 | 1.6 | 1.6 |
| NS32UFHG0/5BLM | TPU | SkyBlue | Diamond | fabric (PET) | 2 | 3 | 1.6 | 1.6 |
| NS41UFHG0/5WM | TPU | White | Diamond | fabric (PET) | 1 | 4 | 1.3 | 1.0 |
| NS41UFHG0/5BLM | TPU | SkyBlue | Diamond | fabric (PET) | 1 | 4 | 1.3 | 1.0 |
| LIGHT TRANSMITTANCE | | | | | | | | |
| MX001SKL | TPU | Transparent | Smooth | fabric (PET) | 1 | 1 | 0.5 | 0.5 |
| MX002SKL | TPU | Transparent | Smooth | low shrinkage fabric | 2 | 1 | 0.9 | 0.9 |
| ROTARY-CUTTER | | | | | | | | |
| NS32UKG0/8N | TPU | Transparent | Smooth | fabric (PET) | 2 | 3 | 1.8 | 2.0 |
| NS32UG0/8BL | TPU | SkyBlue | Smooth | fabric (PET) | 2 | 3 | 1.7 | 1.9 |
| ACCUMULATION | | | | | | | | |
| NS41UG0/0W | fabric (PET) | White | - | fabric (PET) | 1 | 4 | 0.6 | 0.4 |
| NS82UG0/0W | fabric (PET) | White | - | fabric (PET) | 2 | 8 | 1.3 | 1.1 |
| INCLINED CONVEYING | | | | | | | | |
| NS41UKG0/5WT | TPU | White | Longitudinal groove | fabric (PET) | 1 | 4 | 1.5 | 1.0 |
| NS82UKG0/8WT | TPU | White | Longitudinal groove | fabric (PET) | 2 | 8 | 2.3 | 2.2 |
| INCLINED CONVEYING HIGH-GRIP | | | | | | | | |
| NS41UKG0/15WTT | TPU | White | Herringbone | fabric (PET) | 1 | 4 | 2.3 | 1.7 |
| COMPLIANT WITH GLOBAL FOOD SAFETY REGULATION - EU(PIM), US(FDA) | | | | | | | | |
| NS41UW0/2W | TPU | White | Smooth | fabric (PET) | 1 | 4 | 0.7 | 0.8 |
| NS41UW0/2BL | TPU | Blue | Smooth | fabric (PET) | 1 | 4 | 0.7 | 0.8 |
| NS52UW0/2W | TPU | White | Smooth | fabric (PET) | 2 | 5 | 1.3 | 1.4 |
| NS52UW0/2BL | TPU | Blue | Smooth | fabric (PET) | 2 | 5 | 1.3 | 1.4 |
| NS52UW0/8BLCC | TPU | Blue | Circular Cone | fabric (PET) | 2 | 5 | 2.9 | 2.1 |
| NS52UW0/8BLWV | TPU | Blue | Wave | fabric (PET) | 2 | 5 | 2.9 | 2.1 |

*1 TPU: Thermoplastic Polyurethane, PTFE: Polytetrafluoroethylene, HS: Hybrid Silicone, PET: Polyethylene Terephthalate

# PRODUCT RANGE

| Technical Data | | | | | | Property | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt weight | Standard splice type | Minimum Pulley Diameter | Minimum Knife edge R | Permissible operating temperature | Antibacterial antifungal | Non-fray | Hot water cleaning compatible | Table support | Low noise | Max. production width | Product Code |
| - | | mm | mm | °C | | | | | | mm | |
| | Finger | 10 | R3 | -30~70 | - | ○ | - | ○ | - | 1200 | NS41UEG0/2W |
| | Finger | 25 | R3 | -30~70 | - | ○ | - | ○ | - | 1200 | NS82UEG0/2W |
| | Finger | 10 | R2 | -30~70 | - | ○ | - | ○ | - | 1200 | MX717W |
| | Finger | 50 | - | -5~80 | - | ○ | ○ | ○ | - | 1200 | NS32UCG0/3PTFE |
| | Finger | 10 | R2 | -5~80 | - | ○ | ○ | ○ | ○ | 1200 | MX993W |
| | Finger | 10 | R2 | -5~80 | - | ○ | ○ | ○ | ○ | 1200 | MX993BL |
| | Lap | 20 | - | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS32UG0/0HSW |
| | Finger | 10 | R3 | -30~70 | - | - | - | ○ | - | 1200 | NS41U0/0HSBL |
| | Lap | 30 | - | -30~70 | - | - | - | ○ | - | 1200 | NS52U0/0HSBL |
| | Finger | 10 | R3 | -30~70 | - | ○ | - | ○ | ○ | 1200 | NS32UEG0/3SI |
| | Lap | 30 | R7 | -30~70 | - | - | - | ○ | - | 1200 | NS32UB0/0 |
| | Finger | 10 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS41UFHG0/2W |
| | Finger | 30 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS82UFHG0/2W |
| | Finger | 25 | R3 | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS82UFHG0/2BL |
| | Finger | 25 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS32UFHG0/5WM |
| | Finger | 25 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS32UFHG0/5BLM |
| | Finger | 20 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS41UFHG0/5WM |
| | Finger | 20 | - | -30~80 | ○ | ○ | ○ | ○ | - | 1200 | NS41UFHG0/5BLM |
| | Finger | 10 | - | -30~50 | - | - | - | ○ | - | 1200 | MX001SKL |
| | Finger | 10 | - | -30~50 | - | - | - | ○ | - | 1200 | MX002SKL |
| | FOF *2 | 20 | - | -30~70 | - | ○ | - | ○ | - | 1200 | NS32UKG0/8N |
| | Finger | 20 | - | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS32UG0/8BL |
| | Finger | 10 | R3 | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS41UG0/0W |
| | Lap | 40 | - | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS82UG0/0W |
| | Finger | 10 | - | -30~70 | - | ○ | - | ○ | - | 1200 | NS41UKG0/5WT |
| | Finger | 50 | - | -30~70 | - | ○ | - | ○ | - | 1200 | NS82UKG0/8WT |
| | Finger | 15 | - | -10~50 | - | ○ | - | ○ | - | 1200 | NS41UKG0/15WTT |
| | Finger | 15 | R3 | -30~80 | - | ○ | - | ○ | - | 2000 | NS41UW0/2W |
| | Finger | 15 | R3 | -30~80 | - | ○ | - | ○ | - | 2000 | NS41UW0/2BL |
| | Finger | 20 | R4 | -30~80 | - | ○ | - | ○ | - | 2000 | NS52UW0/2W |
| | Finger | 20 | R4 | -30~80 | - | ○ | - | ○ | - | 2000 | NS52UW0/2BL |
| | Finger | 20 | - | -30~80 | - | ○ | - | ○ | - | 750 | NS52UW0/8BLCC |
| | Finger | 20 | - | -30~80 | - | ○ | - | ○ | - | 750 | NS52UW0/8BLWV |

*2 Finger overlap finger

# Industrial grade TPU - PVC

| Product Code | Product Construction | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Conveying Side | | | Driving Side | Plies | Admissible Tension | Belt Thickness | |
| | Material *1 | Colour | Surface | Material | Nr. | N/m | mm | kg/m² |
| **WATER RESISTANT - STANDARD** | | | | | | | | |
| MX081G | TPU | Green | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.8 |
| MX082G | TPU | Green | Smooth | fabric (PET) | 2 | 5 | 1.2 | 1.2 |
| NS41UG0/2G | TPU | Green | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| NS41UG2/2G | TPU | Green | Smooth | TPU | 1 | 4 | 1.1 | 1.0 |
| NS82UG0/2G | TPU | Green | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| MX207 | TPU | Green | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| NS82UG0/2YG | TPU | Yellow Green | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| NS82UG0/5G | TPU | Green | Smooth | fabric (PET) | 2 | 8 | 1.7 | 1.9 |
| NS82UG2/2G | TPU | Green | Smooth | TPU | 2 | 8 | 1.7 | 1.9 |
| NS123UG0/5G | TPU | Green | Smooth | fabric (PET) | 3 | 12 | 2.5 | 2.6 |
| **CURVE BELT / TROUGHED** | | | | | | | | |
| NS41UR0/5G | TPU | Green | Smooth | fabric (PET) | 1 | 4 | 1.0 | 1.1 |
| NS82UR0/2G | TPU | Green | Smooth | fabric (PET) | 2 | 8 | 1.5 | 1.6 |
| **CURVE BELT / TROUGHED - OIL RESISTENT** | | | | | | | | |
| NS41UER0/2G | TPU | Green | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.8 |
| NS41UER0/2W | TPU | White | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.8 |
| **INCLINED CONVEYING (Angle of slope ≤ 5°)** | | | | | | | | |
| NS41UG0/2GR | TPU | Green | Texture(thin) | fabric (PET) | 1 | 4 | 1.0 | 0.9 |
| NS82UG0/2GR | TPU | Green | Texture(thin) | fabric (PET) | 2 | 8 | 1.6 | 1.6 |
| **INCLINED CONVEYING (Angle of slope ≤ 10°)** | | | | | | | | |
| NS82UG0/5GS | TPU | Green | Texture(coarse) | fabric (PET) | 2 | 8 | 2.0 | 1.9 |
| **INCLINED CONVEYING (Angle of slope ≤ 15°)** | | | | | | | | |
| NS41UKG0/5GT | TPU | Green | Longitudinal groove | fabric (PET) | 1 | 4 | 1.5 | 1.0 |
| NS82UKG0/8GT | TPU | Green | Longitudinal groove | fabric (PET) | 2 | 8 | 2.3 | 2.2 |
| MX208 | TPU | Green | Longitudinal groove | fabric (PET) | 2 | 8 | 2.1 | 2.2 |
| **INCLINED CONVEYING HIGH-GRIP (Angle of slope ≤ 30°)** | | | | | | | | |
| NS41UKG0/15GTT | TPU | Green | Herringbone | fabric (PET) | 1 | 4 | 2.3 | 1.7 |
| **ACCUMULATION (Fabric surface)** | | | | | | | | |
| NS41UG0/0G | fabric (PET) | Green | - | fabric (PET) | 1 | 4 | 0.6 | 0.4 |
| NS82UG0/0G | fabric (PET) | Green | - | fabric (PET) | 2 | 8 | 1.3 | 1.1 |
| **ACCUMULATION (TPU surface)** | | | | | | | | |
| NS41UHG0/2G | TPU | Green | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| NS82UHG0/2G | TPU | Green | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| **LATERAL SLIDE** | | | | | | | | |
| NS82UPG0/0W | fabric (PET) | White | - | fabric (PET) | 2 | 8 | 1.3 | 1.1 |
| NS82UPG0/0G | fabric (PET) | Green | - | fabric (PET) | 2 | 8 | 1.3 | 1.1 |

*1 TPU: Thermoplastic Polyurethane, PET: Polyethylene Terephthalate

# PRODUCT RANGE

| Technical Data | | | | | | Property | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt weight | Standard splice type | Minimum Pulley Diameter | Minimum Knife edge R | Permissible operating temperature | Antibacterial antifungal | Non-fray | Hot water cleaning compatible | Table support | Low noise | Max. production width | Product Code |
| - | - | mm | mm | °C | | | | | | mm | |
| | Finger | 10 | R5 | -30~80 | - | ○ | ○ | ○ | ○ | 1200 | MX081G |
| | Finger | 25 | R3 | -30~80 | - | ○ | ○ | ○ | ○ | 1200 | MX082G |
| | Finger | 10 | R3 | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS41UG0/2G |
| | Finger | 15 | - | -30~80 | - | ○ | ○ | - | - | 1200 | NS41UG2/2G |
| | Finger | 25 | R3 | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS82UG0/2G |
| | Finger | 50 | - | -30~80 | - | - | - | ○ | ○ | 1200 | MX207 |
| | Finger | 25 | R3 | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS82UG0/2YG |
| | Finger | 50 | - | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS82UG0/5G |
| | Finger | 40 | - | -30~80 | - | ○ | ○ | - | - | 1200 | NS82UG2/2G |
| | Lap | 100 | - | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS123UG0/5G |
| | Finger | 10 | R5 | -30~80 | - | - | - | ○ | - | 1200 | NS41UR0/5G |
| | Finger | 25 | - | -30~80 | - | - | - | ○ | - | 1200 | NS82UR0/2G |
| | Finger | 10 | R3 | -30~70 | - | - | - | ○ | - | 1200 | NS41UER0/2G |
| | Finger | 10 | R3 | -30~70 | - | - | - | ○ | - | 1200 | NS41UER0/2W |
| | Finger | 10 | R3 | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS41UG0/2GR |
| | Finger | 25 | - | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS82UG0/2GR |
| | Finger | 50 | - | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS82UG0/5GS |
| | Finger | 10 | - | -30~70 | - | ○ | - | ○ | - | 1200 | NS41UKG0/5GT |
| | Finger | 50 | - | -30~70 | - | ○ | - | ○ | - | 1200 | NS82UKG0/8GT |
| | Finger | 50 | - | -30~70 | - | - | - | ○ | ○ | 1200 | MX208 |
| | Finger | 15 | - | -30~50 | - | ○ | - | ○ | - | 1200 | NS41UKG0/15GTT |
| | Finger | 10 | R3 | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS41UG0/0G |
| | Finger | 40 | - | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS82UG0/0G |
| | Finger | 10 | R3 | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS41UHG0/2G |
| | Finger | 30 | R3 | -30~80 | - | ○ | ○ | ○ | - | 1200 | NS82UHG0/2G |
| | Lap | 30 | - | -30~80 | - | - | - | ○ | - | 1200 | NS82UPG0/0W |
| | Lap | 30 | - | -30~80 | - | - | - | ○ | - | 1200 | NS82UPG0/0G |

# Industrial grade TPU - PVC

| Product Code | Product Construction | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Conveying Side | | | Driving Side | Plies | Admissible Tension | Belt Thickness | |
| | Material *1 | Colour | Surface | Material | Nr. | N/m | mm | kg/m² |
| **OIL RESISTENT** | | | | | | | | |
| NS41UEG0/2G | TPU | Green | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| NS82UEG0/2G | TPU | Green | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| **HIGH ANTISTATIC PERFORMANCE** | | | | | | | | |
| NS41UG0/2BK | TPU | Black | Smooth | fabric (PET) | 1 | 4 | 0.8 | 0.7 |
| NS82UG0/2BK | TPU | Black | Smooth | fabric (PET) | 2 | 8 | 1.4 | 1.5 |
| **SIDE SKIRT** | | | | | | | | |
| NSK1UM0/1W | TPU | White | Smooth | fabric (PET) | 1 | - | 0.7 | 0.5 |
| NSK1UM0/1G | TPU | Green | Smooth | fabric (PET) | 1 | - | 0.7 | 0.5 |
| **OIL RESISTENT - STANDARD** | | | | | | | | |
| NS41VG5/5G | PVC | Green | Smooth | PVC | 1 | 4 | 1.7 | 1.9 |
| NS82VG0/5QW | PVC | White | Smooth | fabric (PET) | 2 | 8 | 1.8 | 1.9 |
| NS82VG0/5QG | PVC | Green | Smooth | fabric (PET) | 2 | 8 | 1.8 | 1.9 |
| MX056QG | PVC | Green | Smooth | fabric (PET) | 2 | 8 | 1.8 | 1.9 |
| NS82VG5/5QW | PVC | White | Smooth | PVC | 2 | 8 | 2.4 | 2.6 |
| NS82VG5/5QG | PVC | Green | Smooth | fabric (PET) | 2 | 8 | 2.4 | 2.6 |
| NS82VG0/20QG | PVC | Green | Smooth | fabric (PET) | 2 | 8 | 3.4 | 3.7 |
| NS183VN0/20QW | PVC | White | Smooth | fabric (PET) | 3 | 18 | 4.6 | 5.0 |
| NS183VN0/20QG | PVC | Green | Smooth | fabric (PET) | 3 | 18 | 4.6 | 5.0 |
| **INCLINED CONVEYING (Angle of slope ≤ 10°)** | | | | | | | | |
| NS52VK0/5QBKM | PVC | Black | Diamond | fabric (PET) | 2 | 5 | 2.1 | 2.1 |
| NS82VKG5/5QDB | PVC | Dark Blue | Smooth | PVC | 2 | 8 | 2.5 | 2.6 |
| NS82VKG0/15QGY | PVC | Gray | Smooth | fabric (PET) | 2 | 8 | 2.6 | 3.0 |
| **INCLINED CONVEYING (Angle of slope ≤ 15°)** | | | | | | | | |
| NS82VKG0/15QGYA | PVC | Gray | Groove | fabric (PET) | 2 | 8 | 3.1 | 3.0 |
| NS82VKUG5/8QDBT | TPU | Dark Blue | Longitudinal groove | PVC | 2 | 8 | 2.9 | 2.9 |
| NS82VX0/8GBW | PVC | Green | Basket weave | fabric (PET) | 2 | 8 | 2.3 | 2.4 |
| **INCLINED CONVEYING (Angle of slope ≤ 20°)** | | | | | | | | |
| NS82VKG0/20QGD | PVC | Green | Deep Groove | fabric (PET) | 2 | 8 | 5.1 | 3.8 |
| NS122VN0/20GSS | PVC | Green | Rough top | fabric (PET) | 2 | 12 | 5.5 | 6.5 |
| NS122VX0/20GYSS | PVC | Gray | Rough top | fabric (PET) | 2 | 12 | 5.5 | 6.5 |
| **INCLINED CONVEYING (Angle of slope ≤ 30°)** | | | | | | | | |
| NS82VKS0/15QGTT | TPE | Green | Herringbone | fabric (PET) | 2 | 8 | 3.2 | 2.7 |
| NS82VK0/15QGYTT | TPE | Gray | Herringbone | fabric (PET) | 2 | 8 | 3.2 | 2.7 |

*1 TPU: Thermoplastic Polyurethane, PVC: Polyvinyl Chloride , TPE: Thermoplastic Elastomer

# PRODUCT RANGE

| Technical Data | | | | | | Property | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt weight | Standard splice type | Minimum Pulley Diameter | Minimum Knife edge R | Permissible operating temperature | Antibacterial antifungal | Non-fray | Hot water cleaning compatible | Table support | Low noise | Max. production width | Product Code |
| | - | mm | mm | °C | | | | | | mm | |
| | Finger | 10 | R3 | -30~70 | - | ○ | - | ○ | - | 1200 | NS41UEG0/2G |
| | Finger | 25 | R3 | -30~70 | - | ○ | - | ○ | - | 1200 | NS82UEG0/2G |
| | Finger | 10 | R3 | -30~70 | - | ○ | - | ○ | - | 1200 | NS41UG0/2BK |
| | Finger | 25 | R3 | -30~70 | - | ○ | - | ○ | - | 1200 | NS82UG0/2BK |
| | - | - | - | -30~70 | - | - | - | - | - | 1200 | NSK1UM0/1W |
| | - | - | - | -30~70 | - | - | - | - | - | 1200 | NSK1UM0/1G |
| | Finger | 35 | - | -10~60 | - | ○ | - | - | - | 1200 | NS41VG5/5G |
| | FOF *2 | 30 | - | -10~60 | - | ○ | - | ○ | - | 1200 | NS82VG0/5QW |
| | FOF *2 | 30 | - | -10~60 | - | ○ | - | ○ | - | 1200 | NS82VG0/5QG |
| | FOF *2 | 30 | - | -10~60 | - | - | - | ○ | ○ | 1200 | MX056QG |
| | FOF *2 | 40 | - | -10~60 | - | ○ | - | - | - | 1200 | NS82VG5/5QW |
| | FOF *2 | 40 | - | -10~60 | - | ○ | - | - | - | 1200 | NS82VG5/5QG |
| | FOF *2 | 75 | - | -10~60 | - | ○ | - | ○ | - | 1200 | NS82VG0/20QG |
| | Lap | 100 | - | -10~60 | - | - | - | ○ | - | 1200 | NS183VN0/20QW |
| | Lap | 100 | - | -10~60 | - | - | - | ○ | - | 1200 | NS183VN0/20QG |
| | FOF *2 | 30 | - | -10~60 | - | - | - | ○ | ○ | 1200 | NS52VK0/5QBKM |
| | FOF *2 | 50 | - | -10~60 | - | ○ | - | - | - | 1200 | NS82VKG5/5QDB |
| | FOF *2 | 50 | - | -10~60 | - | ○ | - | ○ | - | 1200 | NS82VKG0/15QGY |
| | FOF *2 | 50 | - | -10~60 | - | ○ | - | ○ | - | 1200 | NS82VKG0/15QGYA |
| | Lap | 50 | - | -10~60 | - | ○ | - | - | - | 1200 | NS82VKUG5/8QDBT |
| | FOF *2 | 100 | - | -10~60 | - | - | - | ○ | ○ | 2000 | NS82VX0/8GBW |
| | FOF *2 | 50 | - | -10~60 | - | ○ | - | ○ | - | 1200 | NS82VKG0/20QGD |
| | FOF *2 | 75 | - | -10~60 | - | - | - | ○ | ○ | 1800 | NS122VN0/20GSS |
| | FOF *2 | 75 | - | -10~60 | - | - | - | ○ | ○ | 1800 | NS122VX0/20GYSS |
| | FOF *2 | 40 | - | -10~60 | - | - | - | ○ | ○ | 1200 | NS82VKS0/15QGTT |
| | FOF *2 | 40 | - | -10~60 | - | ○ | - | ○ | - | 1200 | NS82VK0/15QGYTT |

*2 Finger overlap finger

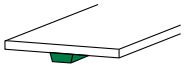
# PROFILES AND GUIDES

Profiles and guides are recommended for inclined and steep conveyance to avoid spillage or material slip. Guides can be fitted longitudinally on the belt running side as tracking guides to prevent snaking. Profiles are made of the same highquality TPU as the belt covers and are available in various shapes, sizes and colours.

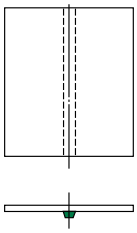
## CONFIGURATION EXAMPLES

The following configurations are available, according to your application's needs. Depending on the belt type, some profile configuration may not be available. Please contact us for more details.

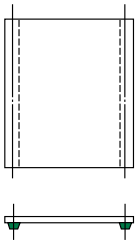
### TRACKING GUIDES
Prevent belt meandering



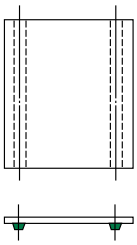
A1



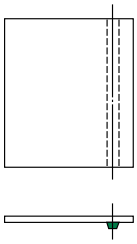
A2



A3 *

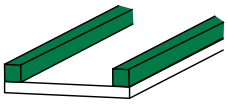


A4

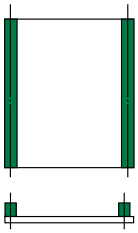


*Please specify pitch size

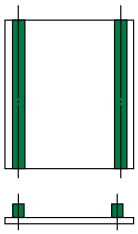
### SIDE GUIDES
Prevent product from falling



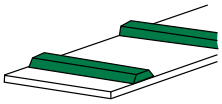
B1



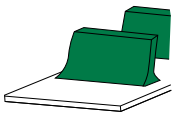
B2



### LATERAL PROFILES
For inclined applications



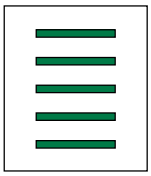
### CLEATS
For steep conveyance



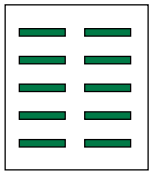
C1



C2



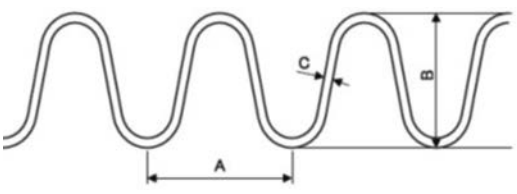
C3



## S Flange (Sidewalls)

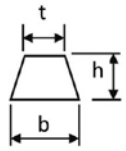
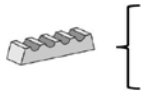
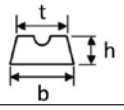
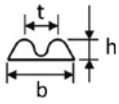
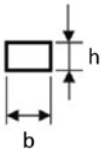
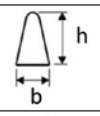
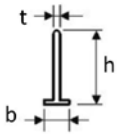
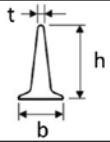
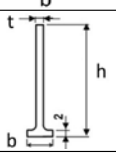
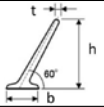
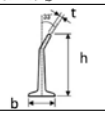
| | Type | Min. pulley diameter | | | Color | | |
|---|---|---|---|---|---|---|---|
| | | tracking guide | side guide | lateral guide | White | Blue | Green |
| TPU | U40S, U60S | - | 90 | - | ○ | ○ | ○ |
| | U85S | - | 130 | - | ○ | - | ○ |
| PVC | V40S | - | 100 | - | ○ | - | ○ |
| | V60S | - | 150 | - | ○ | - | ○ |
| | V85S | - | 255 | - | ○ | - | ○ |

【size】




| | Type | A | B | C | height |
|---|---|---|---|---|---|
| TPU | U40S | 50 | 45 | 2.2 | 40 |
| | U60S | 45.5 | 55 | 2.2 | 60 |
| | U85S | 45.5 | 55 | 2.2 | 85 |
| PVC | V40S | 50.5 | 38 | 5 | 40 |
| | V60S | 50.5 | 38 | 5 | 60 |
| | V85S | 50.5 | 38 | 5 | 85 |

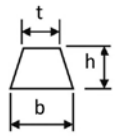
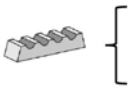
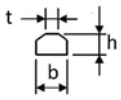
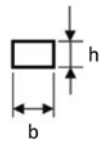
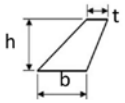
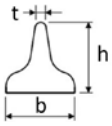
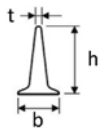
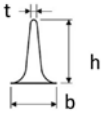
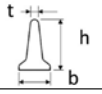
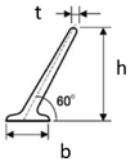
## TPU series

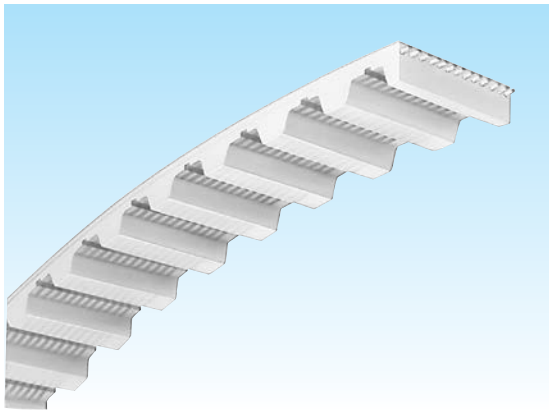
| shape | type | size (mm) | | | color | | | | | Min. pulley diameter | | | note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | b | h | t | white | green | blue | ivory | transparent | tracking guide | side guide | lateral guide | |
|  | M4 | 4 | 2 | 2.6 | ○ | | | | | 15 | - | - | |
| | M5 | 5 | 3 | 2 | ○ | ○ | ○ | | | 20 | 30 | 25 | |
| | M5S | 5 | 1.7 | 3.3 | ○ | | | | | 15 | - | - | |
| | M7 | 7 | 5 | 4 | ○ | ○ | | | | 50 | 50 | 50 | |
| | M | 10 | 5.5 | 6 | ○ | ○ | ○ | | | 50 | 60 | 50 | |
| | A | 12.5 | 9 | 6 | ○ | ○ | ○ | | | 90 | 100 | 100 | |
| | B | 16.5 | 11 | 8.5 | ○ | ○ | | | | 120 | 130 | 100 | |
| | MC5 | 5 | 3 | 2 | | | | ○ | | 20 | 30 | 25 | *1 |
| | MC | 10 | 5.5 | 6 | | | | ○ | | 50 | 60 | 50 | *1 |
|  | M-N | 10 | 5.5 | 6 | ○ | ○ | ○ | | | 30 | 30 | - | Notched |
| | A-N | 12.5 | 9 | 6 | ○ | ○ | ○ | | | 70 | 100 | - | Notched |
| | B-N | 16.5 | 11 | 8.5 | ○ | ○ | | | | 90 | 100 | - | Notched |
|  | OM | 7 | 3.3 | 5 | ○ | | | | | 25 | - | - | |
| | MS | 10 | 3 | 7.8 | ○ | | | | | 20 | - | - | |
| | UN | 10 | 4 | 7.8 | ○ | | | | | 30 | - | - | |
|  | MM | 10 | 2.7 | 5 | | | | | ○ | 20 | - | - | |
| | MMC | 10 | 2.7 | 5 | | | | ○ | | 20 | - | - | *1 |
|  | R4 | 4 | 2 | | ○ | | | | | 15 | - | - | |
| | RK | 8 | 2 | | ○ | | | | | 15 | - | - | |
| | S | 5 | 5 | | ○ | ○ | | | | 50 | 50 | 30 | |
| | RC | 5 | 3 | | ○ | ○ | | | | 30 | 30 | 25 | |
| | RC-Y | 3 | 5 | | ○ | ○ | | | | - | - | 30 | |
| | RS | 10 | 3 | | ○ | ○ | | | | - | 50 | 30 | |
| | RS-Y | 3 | 10 | | ○ | ○ | | | | - | - | 25 | |
|  | GL | 7 | 5 | | ○ | | | | | - | 50 | 30 | |
|  | G | 6 | 8 | | ○ | ○ | | | | - | 180 | 30 | |
|  | TM10 | 4 | 10 | 1 | ○ | ○ | | | | - | - | 30 | |
| | TM20 | 4 | 20 | 2 | ○ | ○ | | | | - | - | 30 | |
|  | T20 | 14 | 20 | 2.5 | ○ | ○ | | | | - | - | 40 | |
| | T30 | 14 | 30 | 2 | ○ | ○ | | | | - | - | 40 | |
| | T40 | 15 | 40 | 2 | ○ | ○ | | | | - | - | 40 | |
| | T50 | 15 | 50 | 2 | ○ | ○ | | | | - | - | 40 | |
|  | TS20 | 10 | 20 | 3 | ○ | | ○ | | | - | - | 30 | |
| | TS30 | 10 | 30 | 3 | ○ | | ○ | | | - | - | 30 | |
| | TS40 | 10 | 40 | 3 | ○ | | ○ | | | - | - | 30 | |
| | TS50 | 10 | 50 | 3 | ○ | | ○ | | | - | - | 30 | |
|  | 1H | 17 | 30 | 4 | ○ | ○ | ○ | | | - | - | 50 | |
| | 2H | 24 | 50 | 4 | ○ | ○ | ○ | | | - | - | 80 | |
| | 3H | 28 | 75 | 5 | ○ | ○ | | | | - | - | 120 | |
|  | 1F | 17 | 30 | 3 | ○ | ○ | | | | - | - | 50 | |
| | 2F | 24 | 50 | 3 | ○ | ○ | | | | - | - | 80 | |
| | 3F | 28 | 75 | 3 | ○ | ○ | | | | - | - | 120 | |

*1 Applicable Belt Type: NS82UCG0/2W, MX222CW, NS32UCG0/3PTFE

# PROFILES AND GUIDES

## PVC series

| shape | type | size (mm) | | | color | | | | | Min. pulley diameter | | | note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | b | h | t | white | green | blue | ivory | transparent | tracking guide | side guide | lateral guide | |
|  | M | 10 | 5.5 | 6 | ○ | ○ | | | | 50 | 50 | 50 | |
| | A | 12.5 | 9 | 6 | ○ | ○ | | | | 70 | 70 | 80 | |
| | B | 16.5 | 11 | 8.5 | ○ | ○ | | | | 90 | 90 | 100 | |
| | Z | 12 | 7.5 | 9 | | ○ | | | | 95 | 90 | - | |
|  | A-N | 12.5 | 9 | 6 | ○ | ○ | | | | 50 | 50 | - | Notched |
| | B-N | 16.5 | 11 | 8.5 | ○ | ○ | | | | 90 | 90 | - | Notched |
| | Z-N | 12 | 7.5 | 9 | | ○ | | | | 75 | 75 | - | Notched |
|  | KS | 5 | 3 | 2 | | ○ | | | | 35 | 60 | 50 | |
|  | S | 5 | 5 | | ○ | ○ | | | | - | 80 | 35 | |
| | RC | 5 | 3 | | | ○ | | | | - | 60 | 50 | |
| | RC-Y | 3 | 5 | | | ○ | | | | - | - | 50 | |
| | RS | 10 | 3 | | | ○ | | | | - | 60 | 50 | |
| | RS-Y | 3 | 10 | | | ○ | | | | - | - | 50 | |
| | RM | 10 | 15 | | ○ | ○ | | | | - | 150 | 80 | |
| | RM-Y | 15 | 10 | | ○ | ○ | | | | - | - | 80 | |
| | R | 10 | 30 | | | ○ | | | | - | - | 100 | |
| | R-Y | 30 | 10 | | | ○ | | | | - | - | 150 | |
|  | R-N | 10 | 30 | | | ○ | | | | - | 140 | - | Notched |
| | RM-N | 10 | 15 | | | ○ | | | | - | 100 | - | Notched |
|  | P | 14 | 13 | 6 | | ○ | | | | - | - | 80 | |
|  | T20 | 22 | 20 | 3 | ○ | ○ | | | | - | - | 80 | |
|  | T30 | 14 | 30 | 2 | ○ | ○ | | | | - | - | 50 | |
|  | TE15 | 12 | 15 | 2 | ○ | | | | | - | - | 35 | |
|  | TE20 | 14 | 20 | 3.5 | ○ | | | | | - | - | 50 | |
| | TE25 | 14 | 25 | 3.5 | ○ | | | | | - | - | 50 | |
|  | 1HH | 17 | 30 | 4 | | ○ | | | | - | - | 100 | |
| | 1H | 27 | 30 | 5 | ○ | ○ | | | | - | - | 80 | |
| | 2H | 31 | 50 | 6 | ○ | ○ | | | | - | - | 100 | |
| | 3H | 45 | 75 | 10 | ○ | ○ | | | | - | - | 120 | |



# FREESPAN Belt

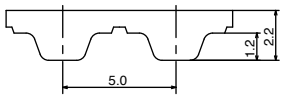
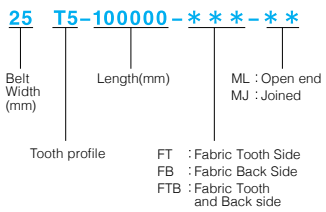
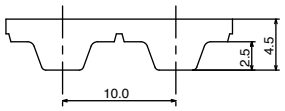
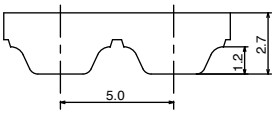
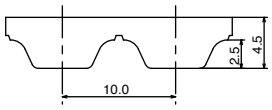
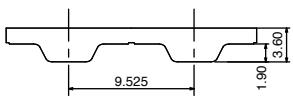
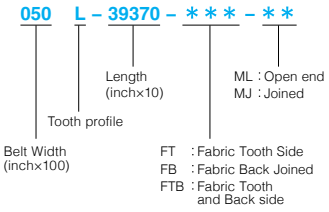
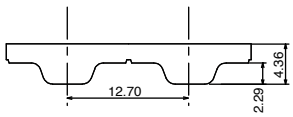
FREESPAN Belt is a polyurethane timing belt consisting of thermoplastic polyurethane and steel cords.
This belt is suitable for synchronous transportation and power transmission requiring accurate positioning.
The tension members are parallel to each other to ensure a suitable synchronous drive. Polyurethane also has good physical properties and good chemical resistance.

Belt temperature range is from -30°C to 80°C.

## Belt type, Dimensions & Product code

### Trapezoidal Tooth Profile

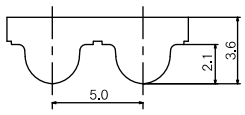
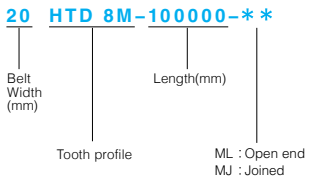
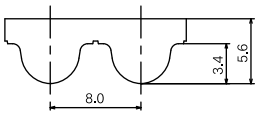
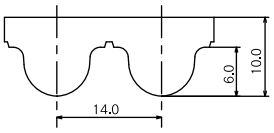
**Standard color : White**
**Polyurethane : Thermoplastic Polyurethane Shore A 92**
**Standard Cords : S and Z zinc-coated steel cord**

| Tooth profile | Standard Dimensions | Thickness (mm) | Roll Length | Width(mm) | Minimum Pulley teeth | | Product Code | Belt Options | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2 Shafts | Ω Layout | | Joined belt | Cleats | Fabric Type |
| T5 |   | 2.2 | 100m | 8<br>10<br>16<br>25<br>32<br>50<br>75<br>100<br>150 | 12 | 18 |   | ○ | ○ | ○ |
| T10 |   | 4.5 | 100m | 10<br>16<br>25<br>32<br>50<br>75<br>100<br>150 | 14 | 20 | | ○ | ○ | ○ |
| AT5 |   | 2.7 | 100m | 8<br>10<br>16<br>25<br>32<br>50<br>75<br>100<br>150 | 15 | 25 | | ○ | ○ | ○ |
| AT10 |   | 4.5 | 100m | 10<br>16<br>25<br>32<br>50<br>75<br>100<br>150 | 15 | 25 | | ○ | ○ | ○ |
| L |   | 3.60 | 3937inch (100m) | 0.37inch (9.5mm)<br>0.50inch (12.7mm)<br>1.00inch (25.4mm)<br>2.00inch (50.8mm)<br>4.00inch (101.6mm) | 14 | 20 |   | ○ | ○ | ○ |
| H |   | 4.36 | 3937inch (100m) | 0.50 inch (12.7mm)<br>0.75 inch (19.1mm)<br>1.00 inch (25.4mm)<br>2.00 inch (50.8mm)<br>4.00 inch (101.6mm)<br>6.00 inch (152.4mm) | 14 | 20 | | ○ | ○ | ○ |

## Belt type, Dimensions & Product code

### Round Tooth Profile

**Standard color : White**
**Polyurethane : Thermoplastic Polyurethane Shore A 92**
**Standard Cords : S and Z zinc-coated steel cord**

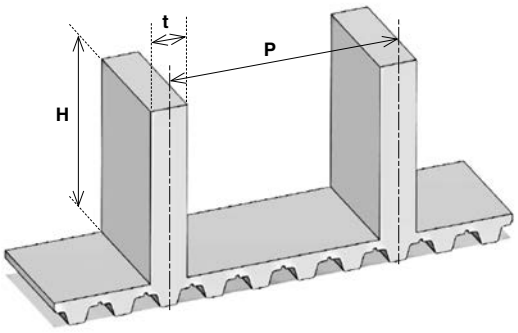
| Tooth profile | Standard Dimensions | Thickness (mm) | Roll Length | Width(mm) | Minimum Pulley teeth | | Product Code | Belt Options | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2 Shafts | Ω Layout | | Joined belt | Cleats | Fabric Type |
| HTD 5M |  | 3.6 | 100m | 10<br>15<br>25<br>50<br>100<br>150 | 14 | 20 |  | ○ | ○ | ○ |
| HTD 8M |  | 5.6 | 100m | 10<br>15<br>20<br>30<br>50<br>85<br>100<br>150 | 20 | 30 | | ○ | ○ | ○ |
| HTD 14M |  | 10.0 | 50m | 25<br>40<br>55<br>85<br>100<br>115<br>150 | 28 | 28 | | ○ | ○ | ○ |

## Profile (Cleats)

**Freespan belt can be welded variously shaped Cleats on the Belt.**

### Standard Rectangle Cleats

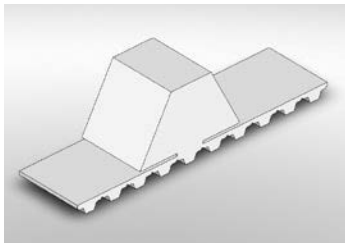
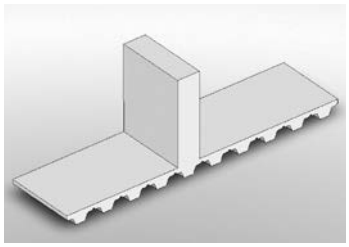
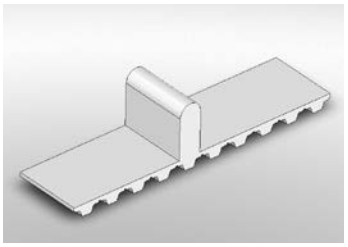
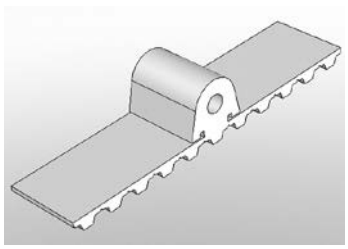
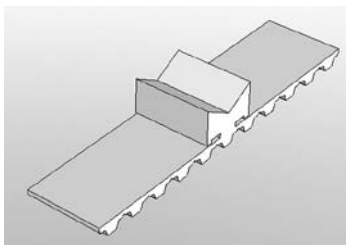
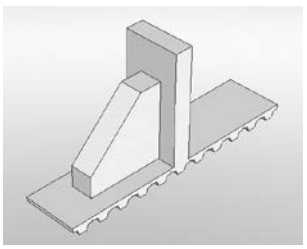
**Standard color : White**
**Polyurethane : Thermoplastic Polyurethane Shore A 92**




| | | |
|---|---|---|
| Thickness (t) | | 2mm~10mm (±0.5mm) |
| Height (H) | | 20mm~50mm (±0.5mm) |
| Tolerance of the positioning | | ±0.5mm |
| Cleats Pitch Tolerance (P) | ≦250mm | ±0.5mm |
| | 250mm< ≦500mm | ±1.0mm |
| | 500mm< | ±2.0mm |

### Special Cleats

**The special cleats are available. Please contact us for details.**

# 3. ENGINEERING PLASTIC PRODUCTS

MEP Size Table ..... P83, 84

Engineering Plastics

1. Cast-Nylon ..... P85
2. UHMW-PE ..... P86, 87
3. Clean-PE series ..... P88
4. Polyacetal ..... P89
5. PEEK ..... P90

# MEP Size Table

## A: Rod Type

Standard stock :● Non-stock size: △

| Name | Grade | Color | Length(mm) \ Diameter (mm) | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 14 | 15 | 16 | 17.5 | 18 | 20 | 22 | 22.5 | 25 | 26 | 28 | 30 | 32 | 35 | 40 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cast-Nylon (CN) | UD / NB | Ivory / Blue | 300L | | | | | | | | | | | | | | | | | | | | | | | △ | | △ | △ |
| | | | 500L | | | | | | | | | | | | | | | | | | | | | | | ● | | ● | ● |
| | | | 1000L | | | | | | | | | | | | | | | | | | | | | | | ● | | ● | ● |
| | CL | Green | 300L | | | | | | | | | | | | | | | | | | | | | | | △ | | △ | △ |
| | | | 500L | | | | | | | | | | | | | | | | | | | | | | | △ | | △ | △ |
| | | | 1000L | | | | | | | | | | | | | | | | | | | | | | | ● | | ● | ● |
| | MD | Black | 500L | | | | | | | | | | | | | | | | | | | | | | | ● | | ● | ● |
| | | | 1000L | | | | | | | | | | | | | | | | | | | | | | | △ | | △ | △ |
| | CDH | Black | 1000L | | | | | | | ● | | | | | | ● | | | | ● | | | ● | | | ● | | ● | ● |
| Cast-Nylon EX(CN-EX) | UDE / NBE | Ivory / Blue | 1000L | | | | | | | ● | | | | | | ● | | | | ● | | | ● | | | ● | | ● | ● |
| Ultra-High Molecular Weight Polyethylene (UHMW-PE) | NA | White | 1000L | | | | | | | ● | | | | | | ● | | | | ● | | | ● | | | ● | | ● | ● |
| | ASB | Black | 1000L | | | | | | | | | | | | | | | | | | | | △ | | | ● | | ● | ● |
| | ASN | Gray | 1000L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyacetal (POM) | Copolymer POM | White | 1000L | | | | | | | | | | | | | | | | | ● | | ● | ● | | | ● | | ● | ● |
| | | Black | 1000L | | | | | | | | | | | | | | | | | △ | | △ | △ | | | △ | | △ | △ |
| | BESTAL G | Green | 1000L | | | | | | | ● | | | | | | ● | | | | ● | | | ● | | | ● | | ● | ● |
| | Delrin® | White | 1000L | ● | ● | ● | | ● | | ● | | | ● | | | ● | | ● | | ● | | ● | ● | | | ● | | ● | ● |
| | | Black | 1000L | | | | | ● | | ● | | | ● | | | ● | | ● | | ● | | ● | ● | | | ● | | ● | ● |
| Polyetheretherketone(PEEK) | NA | Light Brown | 1000L | | ● | ● | | ● | | ● | | ● | | | | | ● | | ● | ● | ● | | ● | | ● | ● | ● | ● | ● |
| Clean-PE Series | Clean-PE | Sky Blue | 1000L | | | | | | | | | | | | | | | | | ● | | | | | | ● | | | ● |
| | Clean-PE UH | Blue | 1000L | | | | | | | △ | | | | | | | | | | △ | | | | | | ● | | | ● |
| High-density Polyethylene(HDPE) | NA | White | 1000L | | | | | | | | | | | | | | | | | ● | | | ● | | | ● | | ● | ● |
| Nylon6 | NA | White | 1000L | | | | | | | △ | | | | | | △ | | | | △ | | | | | | △ | | | △ |
| Nylon66 | NA | Light Yellow | 1000L | | | | | | | △ | | | | | | △ | | | | △ | | | | | | △ | | | △ |
| Polytetrafluoroethylene(PTFE) | NA | White | 1000L | | △ | △ | △ | △ | △ | △ | △ | △ | | △ | △ | △ | △ | | △ | △ | △ | | △ | △ | △ | △ | | △ | △ |
| Polyphenylene Sulfide(PPS) | NA | Natural | 1000L | | | | | | | | | | | | | | | | | △ | | | | | | △ | | | △ |
| Urethane | NA | Amber | 1000L | | | | | | | | | | | | | | | | | | | | | | | △ | | △ | △ |
| Polypropylene(PP) | NA | White | 1000L | | | | | | | | | | | | | | | | | ● | | | ● | | | ● | | ● | ● |
| ABS | NA | Ivory | 1000L | | | | | | | | | | | | | | | | | △ | | | △ | | | △ | | △ | △ |

## B: Plate Type

Standard stock:● Non-stock size: △ (Unit:mm)

| Name | Grade | Color | Length(mm) \ Thickness (mm) | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 15 | 16 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cast-Nylon (CN) | UD / NB | Ivory / Blue | 1000W×2000L | | | | | | ● | | ● | | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| | | | 1000W×1000L | | | | | | ● | | ● | | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| | | | 500W×1000L | | | | | | ● | | ● | | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| | | | 600W×1200L | | | | | | ● | | ● | | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | △ | ● | △ | △ | △ | △ |
| | CL | Green | 1000W×2000L | | | | | | ● | | ● | | | ● | ● | ● | | ● | ● | ● | △ | △ | △ | △ | △ | △ | △ | | | | | | | |
| | | | 1000W×1000L | | | | | | △ | | △ | | | △ | △ | △ | | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | | | | | | |
| | | | 600W×1200L | | | | | | ● | | ● | | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| | MD | Black | 1000W×2000L | | | | | | △ | | △ | | | △ | △ | △ | | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | | | | | | |
| | | | 1000W×1000L | | | | | | △ | | △ | | | △ | △ | △ | | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | | | | | | |
| | | | 600W×1200L | | | | | | ● | | ● | | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| | CDH | Black | 500W×1000L | | | | | | ● | | | ● | | ● | ● | ● | | ● | ● | ● | △ | △ | △ | △ | | | | | | | | | | |
| Cast-Nylon EX(CN-EX) | UDE / NBE | Ivory / Blue | 500W×1000L | | | | | | | | | | | △ | △ | △ | | △ | △ | △ | | | | | | | | | | | | | | |
| Ultra-High Molecular Weight Polyethylene (UHMW-PE) | NA | White | 1000W×2000L | | | | ● | | ● | ● | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | | |
| | G | Green | 1000W×2000L | | | | | | | | | ● | | ● | ● | ● | | ● | ● | | | | | | | | | | | | | | | |
| | ASB | Black | 940W×1920L | | | | | | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1000W×2000L | | | | | | | | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | △ | △ | △ | △ | △ | | △ | | | |
| Polyacetal (POM) | Copolymer POM | White | 600W×1200L | | | | | | ● | ● | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | | ● | ● | | | | | | | | | |
| | | | 500W×1000L | | | | | | ● | ● | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | | ● | ● | ● | ● | | | | | | | |
| | | Black | 600W×1200L | | | | | | △ | △ | | △ | | △ | △ | △ | | △ | △ | △ | △ | △ | | △ | △ | | | | | | | | | |
| | | | 500W×1000L | | | | | | △ | △ | | △ | | △ | △ | △ | | △ | △ | △ | △ | △ | | △ | △ | △ | △ | | | | | | | |
| | BESTAL G | Green | 500W×1000L | | | | | | ● | ● | | ● | | ● | ● | ● | | ● | ● | ● | | | | | | | | | | | | | | |
| | M5BK | Black | 500W×1000L | | | | | | | | | △ | | △ | △ | △ | | △ | △ | △ | | | | | | | | | | | | | | |
| | Delrin® | White | 500W×1000L | | | | | | | | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | | ● | | | | | | | | | | |
| Polyetheretherketone(PEEK) | NA | Light Brown | 620W×1000L | | | | | | ● | ● | | ● | | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| Clean-PE Series | Clean-PE | Sky Blue | 500W×1000L | | | | | | | | | | | ● | ● | | | ● | | ● | | ● | | ● | | | | | | | | | | |
| | Clean-PE UH | Blue | 920W×1920L | | | | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1000W×2000L | | | | | | △ | △ | | △ | | ● | | ● | | ● | | △ | | △ | | △ | | | | | | | | | | |
| High-density Polyethylene(HDPE) | NA | White | 1000W×2000L | △ | △ | △ | △ | △ | △ | △ | | △ | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| Nylon6 | NA | White | 500W×1000L | △ | | △ | | | △ | △ | | △ | | △ | | △ | | △ | △ | △ | △ | △ | | △ | | | | | | | | | | |
| Nylon66 | NA | Light Yellow | 500W×1000L | | | | | | △ | | | | | △ | | △ | | △ | | △ | | | | | | | | | | | | | | |
| Polytetrafluoroethylene(PTFE) | NA | White | 1000W×1000L | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | △ | △ | | | | | | | | | | | | | | | |
| Polyphenylene Sulfide(PPS) | NA | Natural | 500W×1000L | | | | | | | △ | | | | △ | | △ | | △ | | △ | | △ | | △ | | | | | | | | | | |
| Urethane | NA | Amber | 1000W×2000L | △ | △ | △ | △ | △ | △ | △ | | △ | | △ | △ | △ | | △ | △ | △ | | △ | | △ | △ | △ | △ | △ | △ | | | | | |
| Polypropylene(PP) | NA | White | 1400W×2000L | △ | | △ | △ | △ | △ | △ | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1000W×2000L | △ | | △ | △ | △ | △ | △ | | | | △ | | △ | | △ | △ | △ | | △ | | △ | | | | | | | | | | |
| ABS | NA | Ivory | 500W×1000L | | | | | | | | | | | △ | | △ | | △ | △ | △ | △ | △ | | △ | | | | | | | | | | |
| | | | 1000W×2000L | △ | △ | △ | △ | △ | △ | △ | | △ | | △ | | | | | | | | | | | | | | | | | | | | |

(Unit:mm)

| 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 380 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | | △ | | △ | | | △ | | △ | | | △ | | △ | △ | △ | △ | △ | △ | △ |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | △ | △ | ● | △ | ● | △ | △ | ● | △ | ● | △ | △ | ● | △ | ● | ● | ● | △ | △ | △ | △ |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | △ | △ | ● | △ | ● | △ | △ | ● | △ | ● | △ | △ | ● | △ | ● | ● | ● | | | | |
| △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | △ | ● | △ | ● | △ | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | | △ | | △ | | | △ | | △ | | | △ | | △ | | △ | △ | △ | △ | △ |
| △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | | △ | | △ | | | △ | | △ | | | △ | | △ | | △ | | | | |
| ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | | △ | | △ | | △ | | △ | | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | | ● | | ● | | ● | ● | ● | | ● | ● | ● | | | | ● | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | | △ | | △ | | △ | △ | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Contact us for size lineup of ASN grade.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● | | ● | | | | | | | | | | | | | | | | | | | | | |
| △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | | △ | △ | △ | △ | △ | △ | △ | | △ | | △ | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● | | ● | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | △ | △ | △ | △ | △ | △ | | △ | | △ | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | | △ | | △ | | △ | | △ | | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ● | | ● | | ● | | ● | | ● | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ● | | ● | | ● | | ● | | ● | | ● | | △ | | △ | | △ | | | | △ | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | | △ | | △ | | △ | | △ | | △ | | △ | | △ | | △ | | | | △ | | | | | | | | | | | | | | | | | | | | | |
| | △ | | △ | | △ | | △ | | △ | | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | △ | | △ | | △ | | △ | | △ | | △ | | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| △ | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | △ | | △ | | | | △ | | | | △ | | △ | | | △ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| △ | △ | | △ | | △ | | △ | | △ | | △ | | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | | △ | | △ | | △ | | △ | | △ | | △ | | △ | | △ | | | | △ | | | | | | | | | | | | | | | | | | | | | |
| △ | △ | | △ | | △ | | △ | | △ | | △ | | △ | | △ | | △ | | | | △ | | | | | | | | | | | | | | | | | | | | | |

## C: Pipe Type

Non-stock size: △

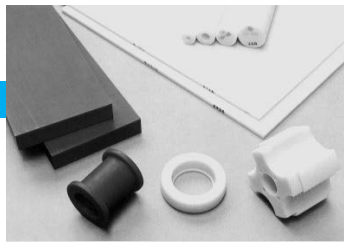
(Unit:mm)

| Name | Grade | Color | Length(mm) \ Diameter (mm) | Outer Diameter | 13.8 | 43 | 60 | 62 | 65 | 70 | 70 | 72 | 75 | 80 | 80 | 83 | 90 | 90 | 100 | 100 | 110 | 113 | 120 | 130 | 140 | 150 | 150 | 154 | 160 | 165 | 175 | 175 | 175 | 180 | 200 | 200 | 210 | 221 | 225 | 250 | 250 | 270 | 275 | 275 | 285 | 300 | 300 | 330 | 345 | 350 | 350 | 400 | 430 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Inner Diameter | 6 | 16.5 | 25 | 48 | 40 | 25 | 45 | 59 | 50 | 30 | 55 | 60 | 40 | 65 | 50 | 75 | 60 | 86 | 70 | 80 | 90 | 100 | 125 | 123 | 115 | 115 | 90 | 125 | 147 | 100 | 100 | 150 | 105 | 189 | 175 | 125 | 200 | 145 | 140 | 225 | 225 | 150 | 250 | 165 | 307 | 175 | 350 | 250 | 350 | 450 | 450 | 550 |
| Cast-Nylon (CN) | UD / NB | Ivory / Blue | 1200L | | | | △ | | △ | △ | △ | | △ | △ | △ | | △ | △ | △ | △ | | | △ | △ | △ | △ | | | △ | △ | △ | | | △ | △ | △ | | △ | △ | △ | △ | △ | △ | | △ | | | | | | | | | | | |
| | | | 350L | | | | △ | | △ | △ | △ | | △ | △ | △ | | △ | △ | △ | △ | | | △ | △ | △ | △ | | | △ | △ | △ | | △ | | △ | | △ | | △ | | △ | △ | △ | | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| | CL | Green | 350L | | | | △ | | | △ | △ | | | | | | △ | | △ | | | | △ | △ | | △ | | | △ | △ | | | | | △ | | △ | | △ | | △ | | | | | | | | | | | | | | | | |
| | MD | Black | 1200L | | | | △ | | | △ | △ | | △ | △ | △ | | △ | △ | △ | △ | △ | | △ | △ | △ | △ | | | | △ | △ | △ | | | | △ | △ | | △ | △ | △ | △ | | | | | | | | | | | | | | | |
| | | | 350L | | | | | | △ | △ | △ | | △ | △ | △ | | △ | △ | △ | △ | △ | | △ | △ | △ | △ | | | △ | △ | △ | △ | | △ | | △ | | △ | | △ | | △ | | △ | △ | | △ | △ | | | △ | | | | | △ |
| | SR | Ivory | 1200L | | | | | | | △ | | | | | | | | | | | | | △ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | △ |
| Ultra-High Molecular Weight Polyethylene (UHMW-PE) | NA | White | Contact us for size lineup of UHMW-NA pipe. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PEEK (Polyetheretherketone) | NA | Light Brown | Contact us for size lineup of PEEK pipe. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note

Delrin is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

# 1. Cast-Nylon



## 1-1. MEP Cast-Nylon Grades

### ■ CN-UD Ivory Standard Grade

### ■ CN-NB Blue Standard Grade

By improving mechanical strength, a characteristic of Cast-Nylon, and reducing physical degradation under high temperature, it can be used under heavy loads like machinery parts for where only metal is used. CN-NB is a blue colored grade of CN-UD and has the same properties as CN-UD.

### ■ CN-MD Black for Light Load Sliding

It has enhanced sliding property base on excellent properties of Cast-Nylon by evenly blending molybdenum disulfide.

### ■ CN-CL Green for (Non-lubricated) Sliding

By our own patented production method, it has outstandingly high abrasion resistance while maintaining the excellent properties of Cast-Nylon. Also, it has lubrication performance which withstands prolonged operating time.

### ■ CN-CDH Black High Conductivity Grade

It has physical properties closer to casting nylon while mechanical strength is enhanced than standard nylon 6 extrusion products. Also, it has electrical volume resistivity $10^{3}$~$10^{5}$ Ω·m.

### ■ CN-UDE Ivory Extruded Grade

### ■ CN-NBE Blue Extruded Grade

It has physical properties closer to Cast-Nylon while mechanical strength is enhanced more than standard nylon 6 extrusion products. It is economical and best to be used as machinery parts such as small sized gears, roller bearings, rollers, etc.
CN-NBE is blue colored grade of CN-UDE with the same properties as CN-UDE.

## 1-2. Applications

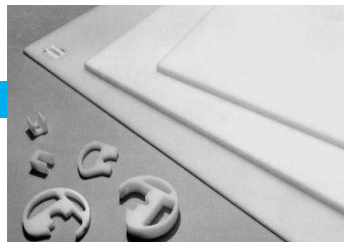
① Metal and steel facility
② Transport equipment
③ Construction machinery
④ Machine tools
⑤ Industrial machinery
⑥ Shipbuilding, heavy industrial machinery
⑦ LCD, semiconductor manufacturing equipment

## 1-3. Properties of Cast-Nylon

| Property | | Test Method | Unit | CN-NB CN-UD | CN-CL | CN-MD | CN-CDH | CN-UDE CN-NBE |
|---|---|---|---|---|---|---|---|---|
| Specific Gravity | | ASTM D792 | — | 1.15~1.16 | 1.12~1.13 | 1.16~1.17 | 1.25~1.27 | 1.15 |
| Tensile Strength | | ASTM D638 | MPa | 78~93 | 59~74 | 74~93 | 70~80 | 76 |
| Tensile Elongation | | ASTM D638 | % | 20~50 | 10~30 | 18~40 | 5~8 | 48 |
| Young's Modulus | | ASTM D638 | $10^{3}$MPa | 3.0~3.5 | 2.0~2.5 | 2.8~3.3 | — | 2.9 |
| Compressive Strength at 5% strain | | ASTM D695 | MPa | 93~108 | 74~83 | 88~98 | 75 | 91 |
| Flexural Strength | | ASTM D790 | MPa | 103~123 | 78~93 | 98~118 | 120 | 110 |
| Izod Notched Impact Strength | | ASTM D256 | J/m | 34~54 | 37~65 | 30~50 | 30~50 | 33 |
| Rockwell Hardness | | ASTM D785 | — | R115~120 | R100~112 | R113~117 | R115~120 | R120 |
| Thermal Conductivity | | ASTM C177 | W/(m・K) | 0.20 | 0.20 | 0.20 | 0.65 | 0.20 |
| Specific Heat | | — | J/(kg・K) | 1,046 | 1,046 | 1,046 | 1,370 | 1,250 |
| Coefficient of Linear Expansion | | ASTM D696 | $10^{-5}$/°C | 8.0 | 8.6 | 9.0 | 12.7 | 9.0 |
| Continuous Use Temperature | | — | °C | 120 | 100 | 120 | — | 110 |
| Deflection Temperature | 1.813MPa | ASTM D648 | °C | 185~200 | 105~115 | 170~195 | — | 94 |
| | 0.451MPa | | °C | 210~215 | 170~180 | 205~210 | — | 193 |
| Volume Resistivity (23°C 50% RH) | | ASTM D257 | Ω・m | $10^{12}$ | $10^{12}$ | $10^{12}$ | $10^{3}$~$10^{5}$ | $10^{12}$ |
| Dielectric Strength | Short Time 3.2mm Thickness | ASTM D149 | kV/mm | 18~22 | 18~22 | 18~22 | — | 25.0 |
| Dielectric Constant | 60Hz | ASTM D150 | — | 3.7 | 3.7 | 3.7 | — | 4.0 |
| | $10^{3}$Hz | | — | 3.7 | 3.7 | 3.7 | — | 3.7 |
| | $10^{6}$Hz | | — | 3.7 | 3.7 | 3.7 | 10.1 | 3.4 |
| Dissipation Factor | 60Hz | ASTM D150 | — | 0.015 | 0.015 | 0.015 | — | 0.010 |
| | $10^{3}$Hz | | — | 0.020 | 0.020 | 0.020 | — | 0.040 |
| | $10^{6}$Hz | | — | 0.050 | 0.050 | 0.050 | 12.4 | 0.040 |
| Water Absorption (24 hours 3.2mm Thickness) | | ASTM D570 | % | 0.5~0.9 | 0.6~0.8 | 0.9~1.2 | 0.6~0.7 | 1.3 |
| Sand slurry Wear (SS400 =100) | | — | — | 57 | 46 | 63 | 57 | 80 |
| Thrust Wear (by S45C P=1,960kPa V=0.25m/sec) | | — | ×$10^{-6}$cm³/(P・V・h) | 1.2 | 0.3 | 1.2 | 1.2 | 2.8 |
| Allowable PV | | — | kPa・m/sec | 820 | 2,290 | 980 | 750 | 820 |

Above characteristics table is representative values, and it does not guarantee values of the product.

# 2. UHMW-PE (Ultra-High Molecular Weight Polyethylene)



## 2-1. MEP UHMW-PE Grades

### ■ UHMW-NA White Standard Grade

UHMW-NA is a standard grade of Ultra-High Molecular Weight Polyethylene whose molecular weight is from 5 to 9 million. It has excellent abrasion resistance, low friction coefficient, anti adhesive property, chemical resistance, cold resistance and food safety.

### ■ UHMW-ASB Black High Antistatic Grade

UHMW-ASB is a grade with high antistatic performance. Its electrical volume resistivity is at a very low level of $10^{2}\Omega$·m, thus making it suitable to use as a static protection in LCD and semiconductor manufacturing equipment.
Also it has excellent abrasion and weather resistance.

### ■ UHMW-ASN Gray Antistatic Grade

UHMW-ASN is an upgrade of UHMW-NA, which antistatic property is added. Its electrical volume resistivity is $10^{9}\Omega$·m. It has high abrasion resistance and suitable for food production and bottling lines.
Particularly, it has a low friction coefficient and good anti-abrasion, and does not scratch PET bottle.

## 2-2. Applications

① Food production facility
② Transport equipment
③ Cement facility
④ Coal storage facility
⑤ Fodder storage facility
⑥ LCD, semiconductor manufacturing equipment
⑦ Chemical facility

## 2-3. Properties of UHMW-PE

| Property | | Test Method | Unit | UHMW-NA | UHMW-ASB | UHMW-ASN |
|---|---|---|---|---|---|---|
| Specific Gravity | | ASTM D792 | — | 0.94 | 0.96 | 0.98 |
| Tensile Strength | | ASTM D638 | MPa | 37 | 28 | 28 |
| Tensile Elongation | | ASTM D638 | % | 365 | 250 | 315 |
| Young's Modulus | | ASTM D638 | $10^{3}$MPa | 0.5 | 0.6 | 0.4 |
| Compressive Strength at 5% strain | | ASTM D695 | MPa | 19 | 19 | 15 |
| Flexural Strength | | ASTM D790 | MPa | 26 | 25 | 15 |
| Izod Notched Impact Strength | | ASTM D256 | J/m | n.b | n.b. | n.b. |
| Rockwell Hardness | | ASTM D785 | — | — | — | — |
| Thermal Conductivity | | ASTM C177 | W/(m・K) | 0.38 | 0.44 | 0.38 |
| Specific Heat | | — | J/(kg・K) | 2,300 | 2,200 | 2300 |
| Coefficient of Linear Expansion | | ASTM D696 | $10^{-5}$/°C | 20.0 | 19.0 | 19.0 |
| Continuous Use Temperature | | — | °C | 80 | 80 | 80 |
| Deflection Temperature | 1.813MPa | ASTM D648 | °C | — | — | — |
| | 0.451MPa | | °C | 96 | 98 | 78 |
| Volume Resistivity (23°C 50% RH) | | ASTM D257 | Ω・m | $>10^{11}$ | $10^{2}$ | $10^{9}$ |
| Dielectric Strength | Short Time 3.2mm Thickness | ASTM D149 | kV/mm | — | — | — |
| Dielectric Constant | 60Hz | ASTM D150 | — | 2.3 | 2.3 | 2.3 |
| | $10^{3}$Hz | | — | — | — | — |
| | $10^{6}$Hz | | — | — | — | — |
| Dissipation Factor | 60Hz | ASTM D150 | — | $1\sim2\times10^{-4}$ | $1\sim2\times10^{-4}$ | $1\sim2\times10^{-4}$ |
| | $10^{3}$Hz | | — | $1\sim2\times10^{-4}$ | $1\sim2\times10^{-4}$ | $1\sim2\times10^{-4}$ |
| | $10^{6}$Hz | | — | $1\sim2\times10^{-4}$ | $1\sim2\times10^{-4}$ | $1\sim2\times10^{-4}$ |
| Water Absorption (24 hours 3.2mm Thickness) | | ASTM D570 | % | <0.01 | <0.01 | <0.01 |
| Sand slurry Wear (SS400 =100) | | — | — | 15 | 12 | 17 |
| Thrust Wear (by S45C P=1,960kPa V=0.25m/sec) | | — | $\times10^{-6}$cm³/(P・V・h) | 4.6 | 3.7 | 4.9 |
| Allowable PV | | — | kPa・m/sec | 490 | 490 | 490 |

Above characteristics table is representative values, and it does not guarantee values of the product.

## 2-4. UHMW Rail Dimensions

### UHMW Rail

#### Flat Rail

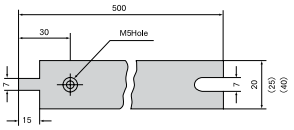
| Thickness (mm) | Width (mm) | Roll Length (m) |
|---|---|---|
| 3 | 15 | 50 |
| 3 | 20 | 50 |
| 3 | 25 | 50 |
| 3 | 30 | 50 |
| 3 | 40 | 50 |
| 3 | 50 | 50 |
| 4 | 25 | 40 |
| 4 | 30 | 40 |
| 4 | 40 | 40 |
| 4 | 50 | 40 |
| 5 | 20 | 30 |
| 5 | 25 | 30 |
| 5 | 30 | 30 |
| 5 | 40 | 30 |
| 5 | 50 | 30 |
| 6 | 20 | 25 |
| 6 | 30 | 25 |
| 6 | 40 | 25 |
| 6 | 50 | 25 |

#### Wear Tape

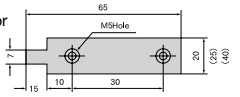
| NO | Width (mm) | Roll Length (m) |
|---|---|---|
| 1/4 | 6.35 | 15.5 |
| 1/2 | 12.7 | 15.5 |
| 3/4 | 19.05 | 15.5 |
| 1 | 25.4 | 15.5 |
| 1 1/4 | 31.75 | 15.5 |
| 2 | 50.8 | 15.5 |
| 3 | 76.2 | 15.5 |
| 4 | 101.6 | 15.5 |
| 6 | 152.4 | 15.5 |
| 12 | 304.8 | 15.5 |
| 18 | 457.2 | 15.5 |

Wear Tape:
0.25mm thickness UHMW-NA tape with adhesive exfoliating paper on one side can be used on the places where rails cannot be mounted.

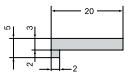
Chain Rail



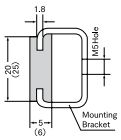

End Plate for Chain Rail



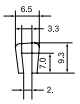

L-Type Rail



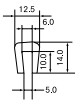

H-Type Rail



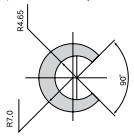

V3-Type Rail



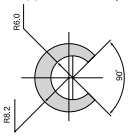

V6-Type Rail



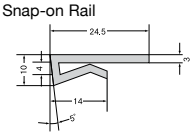

C-Type Rail for ϕ10



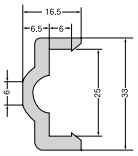

C-Type Rail for ϕ12



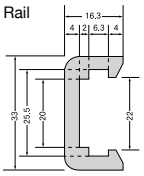

Snap-on Rail



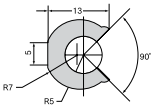

A-Type Rail



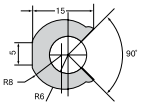

AⅡ-Type Rail




R-Type Rail for ϕ10




R-Type Rail for ϕ12




#### Chain Rail

| Thickness (mm) | Width (mm) | Length (m) |
|---|---|---|
| 5 | 20 | 500 |
| 5 | 25 | 500 |
| 5 | 40 | 500 |
| 6 | 20 | 500 |
| 6 | 25 | 500 |

#### End Plate for Chain Rail

| Thickness (mm) | Width (mm) | Length (m) |
|---|---|---|
| 5 | 20 | 65 |
| 5 | 25 | 65 |
| 5 | 40 | 65 |
| 6 | 20 | 65 |
| 6 | 25 | 65 |

#### L-Type Rail Color: White

| Type | Roll Length (m) |
|---|---|
| L-type | 50 |

#### H-Type Rail Color: White

| Thickness (mm) | Width (mm) | Length (m) |
|---|---|---|
| 5 | 20 | 1000 |
| 5 | 25 | 1000 |

#### V-Type Rail Color: White

| Type | Roll Length (m) |
|---|---|
| V3 -type | 100 |
| V6 -type | 50 |

#### C-Type Rail Color: White

| Type | Length (m) |
|---|---|
| For ϕ10 | 3 |
| For ϕ12 | 3 |

#### Snap-On Rail Color: White

| Type | Roll Length (m) |
|---|---|
| SNP-type | 30 |

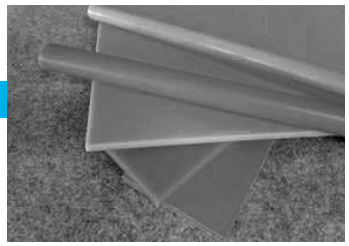
#### A-Type Rail Color: White

| Type | Length (m) |
|---|---|
| A -type Rail | 3 |
| AII-type Rail | 3 |

#### R-Type Rail Color: White

| Type | Length (m) |
|---|---|
| For ϕ10 | 3 |
| For ϕ12 | 3 |

# 3. Clean-PE series



## 3-1 Clean-PE series

Clean-PE series is the polyolefin which was designed with antibacterial and antifungal properties.
The antibacterial and antifungal properties are based on JIS Z2801 and JIS Z2911.

### ■ Clean-PE　　Sky Blue

Clean-PE is high density polyethylene that was designed with antibacterial and antifungal properties.
The mechanical property of Clean-PE is as same as high density polyethylene.

### ■ Clean-PE UH　　Blue

Clean-PE is ultra high molecular weight polyethylene that was designed with antibacterial and antifungal properties.
Clean-PE UH is more excellent than Clean-PE with respect to mechanical property and friction.

## 3-2 Applications

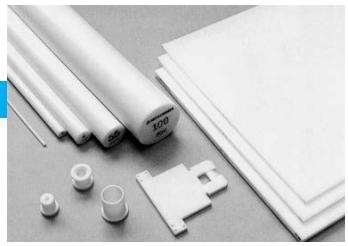
Food machinery parts

## 3-3 Properties of Clean-PE

| Property | | Test Method | Unit | Clean-PE | Clean-PE UH |
|---|---|---|---|---|---|
| Specific Gravity | | ASTM D792 | — | 0.95 | 0.94 |
| Tensile Strength | | ASTM D638 | MPa | 24 | 37 |
| Tensile Elongation | | ASTM D638 | % | 300～ | 365 |
| Young's Modulus | | ASTM D638 | $10^3$MPa | 0.5 | 0.5 |
| Compressive Strength at 5% strain | | ASTM D695 | MPa | 16 | 19 |
| Flexural Strength | | ASTM D790 | MPa | 26 | 26 |
| Izod Notched Impact Strength | | ASTM D256 | J/m | 30～50 | n.b. |
| Rockwell Hardness | | ASTM D785 | — | — | — |
| Thermal Conductivity | | ASTM C177 | W/（m・K） | 0.38 | 0.38 |
| Specific Heat | | — | J/（kg・K） | 2,300 | 2,300 |
| Coefficient of Linear Expansion | | ASTM D696 | $10^{-5}$/°C | 11.0 | 20.0 |
| Continuous Use Temperature | | — | °C | 70 | 80 |
| Deflection Temperature | 1.813MPa | ASTM D648 | °C | — | — |
| | 0.451MPa | | °C | 70 | 96 |
| Volume Resistivity（23℃ 50% RH） | | ASTM D257 | Ω・m | — | $>10^{11}$ |
| Dielectric Strength | Short Time 3.2mm Thickness | ASTM D149 | kV/mm | — | — |
| Dielectric Constant | 60Hz | ASTM D150 | — | — | 2.3 |
| | $10^3$Hz | | — | — | — |
| | $10^6$Hz | | — | 2.3 | — |
| Dissipation Factor | 60Hz | ASTM D150 | — | — | $1～2\times10^{-4}$ |
| | $10^3$Hz | | — | — | $1～2\times10^{-4}$ |
| | $10^6$Hz | | — | — | $1～2\times10^{-4}$ |
| Water Absorption（24 hours 3.2mm Thickness） | | ASTM D570 | % | ＜0.01 | ＜0.01 |
| Sand slurry Wear（SS400 =100） | | — | — | 81 | 15 |
| Thrust Wear（by S45C P=1,960kPa V=0.25m/sec） | | — | $\times10^{-6}$cm³/（P・V・h） | 18 | 4.6 |
| Allowable PV | | — | kPa・m/sec | 160 | 490 |

Above characteristics table is representative values, and it does not guarantee values of the product.

# 4. Polyacetal



## 4-1 MEP Polyacetal Grades

### ■ Delrin® (Homopolymer)　White, Black

Engineering plastics with well balanced properties of mechanical strength, electrical properties and dimension stability. Also, it has good fatigue resistance and superior machining properties.
Note　Delrin is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

### ■ Copolymer POM　White, Black

Engineering plastic with well balanced properties of mechanical strength, electrical properties and dimension stability. Also, it has good cleavage resistance and superior machining properties.
Mass production of parts possible by injection molding.

### ■ BESTAL-G　Green　High Sliding Performance Grade for light/medium load

A grade of polyacetal copolymer with special lubricant. Excellent sliding performance for light to medium load with mechanical strength, electrical properties and dimension stability. Not only use in industrial machinery, it is also used as a sliding component in LCD manufacturing system since it has well recognized wear resistant property.

### ■ M5BK　Black　High Sliding Performance Grade for medium/heavy load

A grade of Polyacetal copolymer with special lubricant. Excellent sliding property with mechanical strength, electrical properties and dimension stability. Not only use in industrial machinery, it is also used as a sliding component in construction machineries since it has well recognized wear resistant property.

## 4-2 Applications

① Food production facility
② Transport equipment
③ LCD, semiconductor manufacturing equipment
④ Construction machinery
⑤ Packing machines
⑥ Electronic components manufacturing equipment

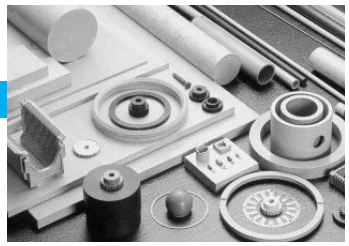
## 4-3 Properties of Polyacetal

| Property | | Test Method | Unit | Delrin® | Copolymer POM | BESTAL-G | M5BK |
|---|---|---|---|---|---|---|---|
| Specific Gravity | | ASTM D792 | — | 1.42 | 1.41 | 1.38 | 1.38 |
| Tensile Strength | | ASTM D638 | MPa | 75 | 62 | 54 | 57 |
| Tensile Elongation | | ASTM D638 | % | 30 | 50 | 50 | 30 |
| Young's Modulus | | ASTM D638 | $10^3$MPa | 2.8 | 2.8 | 2.0 | — |
| Compressive Strength at 5% strain | | ASTM D695 | MPa | 124 | 108 | 74 | 66 |
| Flexural Strength | | ASTM D790 | MPa | 97 | 89 | 72 | 75 |
| Izod Notched Impact Strength | | ASTM D256 | J/m | 80 | 100 | 90 | 90 |
| Rockwell Hardness | | ASTM D785 | — | R120 | R115 | R114 | R110 |
| Thermal Conductivity | | ASTM C177 | W/(m・K) | 0.17 | 0.17 | 0.17 | — |
| Specific Heat | | — | J/(kg・K) | 1,460 | 1,460 | — | — |
| Coefficient of Linear Expansion | | ASTM D696 | $10^{-5}$/°C | 9.0 | 10.0 | 10.0 | 10.0 |
| Continuous Use Temperature | | — | °C | 90 | 90 | 90 | — |
| Deflection Temperature | 1.813MPa | ASTM D648 | °C | 124 | 110 | 105 | 110 |
| | 0.451MPa | | °C | 170 | 158 | — | — |
| Volume Resistivity (23°C 50% RH) | | ASTM D257 | Ω・m | $6\times10^{12}$ | $6\times10^{12}$ | $10^{12}$ | — |
| Dielectric Strength | Short Time 3.2mm Thickness | ASTM D149 | kV/mm | 15 | 20 | 17 | — |
| Dielectric Constant | 60Hz | ASTM D150 | — | 3.70 | 3.70 | — | — |
| | $10^3$Hz | | — | 3.70 | 3.70 | — | — |
| | $10^6$Hz | | — | 3.70 | 3.10 | — | — |
| Dissipation Factor | 60Hz | ASTM D150 | — | 0.003 | 0.001 | — | — |
| | $10^3$Hz | | — | 0.002 | 0.002 | — | — |
| | $10^6$Hz | | — | 0.005 | 0.007 | — | — |
| Water Absorption (24 hours 3.2mm Thickness) | | ASTM D570 | % | 0.25 | 0.22 | 0.22 | 0.22 |
| Sand slurry Wear (SS400 =100) | | — | — | 230 | 230 | 100 | — |
| Thrust Wear (by S45C P=1,960kPa V=0.25m/sec) | | — | $\times10^{-6}$cm³/(P・V・h) | 1.6 | 1.7 | 0.9 | — |
| Allowable PV | | — | kPa・m/sec | 490 | 490 | 1,300 | 1,630 |

Above characteristics table is representative values, and it does not guarantee values of the product.

Note　Delrin is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

# 5. Polyetheretherketone (PEEK)



## 5-1 PEEK

**■ PEEK-NA　　Light Brown　　Standard Grade**

A high performance engineering plastic comparable to PTFE for its heat and chemical resistance.
It also has mechanical strength, electrical properties and machinability similar to Cast-Nylon.
Used in many applications such as LCD / semiconductor manufacturing equipment, chemical equipment, plating equipment and transport equipment.

## 5-2 Applications

① LCD, semiconductor manufacturing equipment
② Chemical production equipment
③ Plating industry
④ Aerospace industry
⑤ Medical equipment
⑥ Electronic component manufacturing equipment

## 5-3 Properties of PEEK

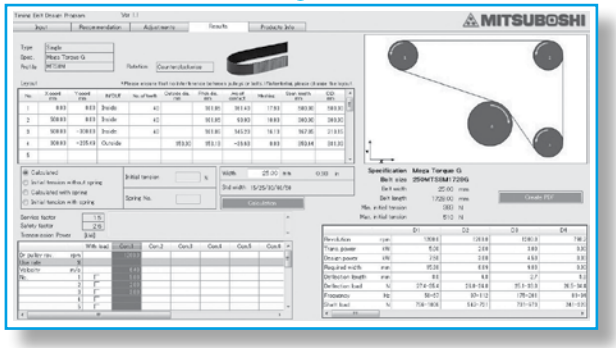
| Property | | Test Method | Unit | PEEK-NA |
|---|---|---|---|---|
| Specific Gravity | | ASTM D792 | — | 1.30 |
| Tensile Strength | | ASTM D638 | MPa | 97 |
| Tensile Elongation | | ASTM D638 | % | 80 |
| Young's Modulus | | ASTM D638 | $10^3$MPa | 2.8 |
| Compressive Strength at 5% strain | | ASTM D695 | MPa | 127 |
| Flexural Strength | | ASTM D790 | MPa | 142 |
| Izod Notched Impact Strength | | ASTM D256 | J/m | 59 |
| Rockwell Hardness | | ASTM D785 | — | M98 |
| Thermal Conductivity | | ASTM C177 | W/(m・K) | 0.20 |
| Specific Heat | | — | J/(kg・K) | 1330 |
| Coefficient of Linear Expansion | | ASTM D696 | $10^{-5}$/°C | 4.8 |
| Continuous Use Temperature | | — | °C | 240 |
| Deflection Temperature | 1.813MPa | ASTM D648 | °C | 152 |
| | 0.451MPa | | °C | — |
| Volume Resistivity (23°C 50% RH) | | ASTM D257 | Ω・m | $10^{14}$～$10^{15}$ |
| Dielectric Strength | Short Time 3.2mm Thickness | ASTM D149 | kV/mm | 19 |
| Dielectric Constant | 60Hz | ASTM D150 | — | — |
| | $10^3$Hz | | — | 3.2～3.4 |
| | $10^6$Hz | | — | — |
| Dissipation Factor | 60Hz | ASTM D150 | — | — |
| | $10^3$Hz | | — | 0.003 |
| | $10^6$Hz | | — | 0.003 |
| Water Absorption (24 hours 3.2mm Thickness) | | ASTM D570 | % | 0.14 |
| Sand slurry Wear (SS400 =100) | | — | — | — |
| Thrust Wear (by S45C P=1,960kPa V=0.25m/sec) | | — | $\times10^{-6}$cm³/(P・V・h) | — |
| Allowable PV | | — | kPa・m/sec | — |

Above characteristics table is representative values, and it does not guarantee values of the product.

# Visit our website!

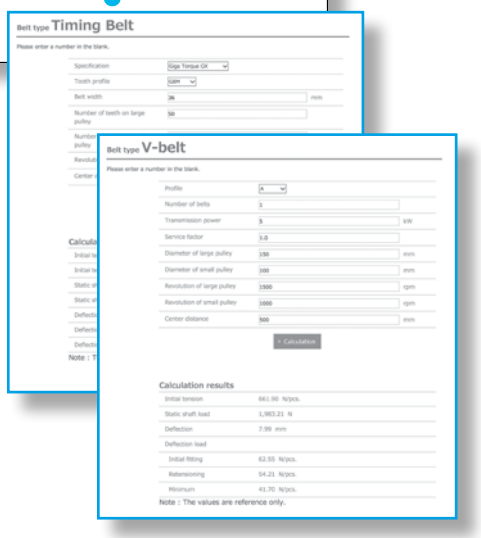
**https://www.mitsuboshi.com/english/**



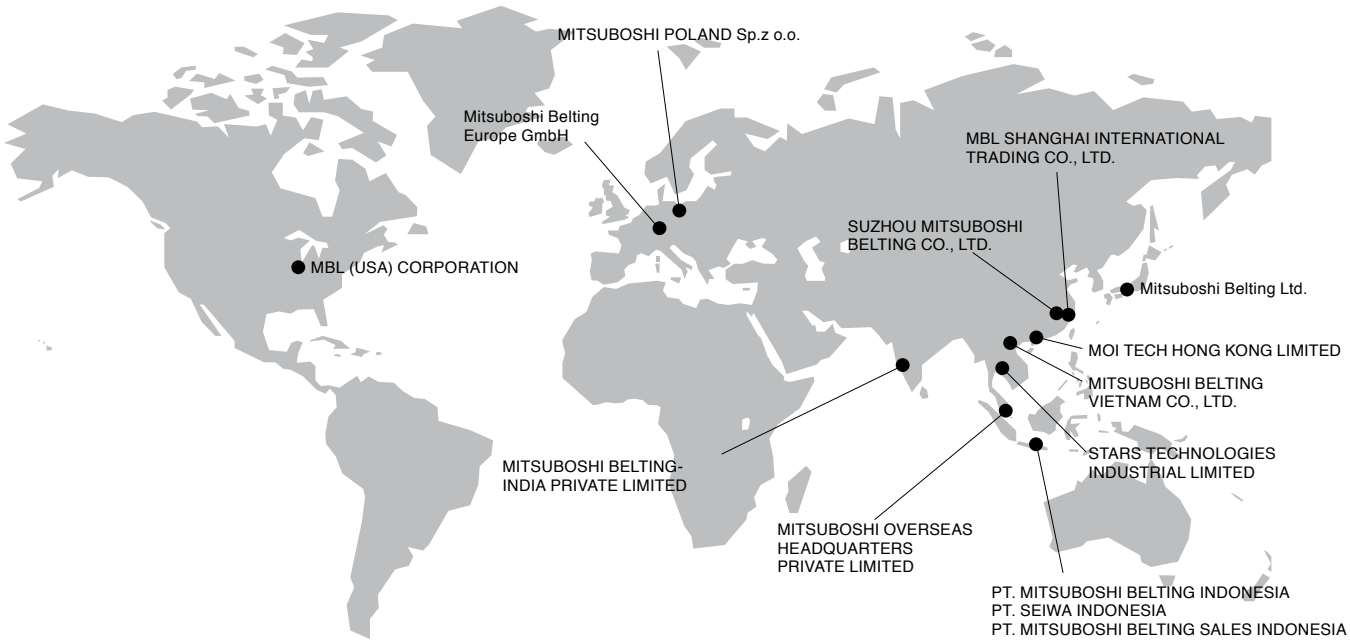







# Technical supporting tools are available!!

# Global Factories & Sales Offices




## JAPAN

**●Mitsuboshi Belting Ltd.**
(Kobe Head Office)
4-1-21 Hamazoe-dori, Nagata-ku,
Kobe 653-0024, Japan
Tel: +81-78-671-5071 Fax: +81-78-685-5670

(Tokyo Head Office)
2-3-4 Nihonbashi Chuo-ku,
Tokyo 103-0027, Japan
Tel: +81-3-5202-2500 Fax: +81-3-5202-2520

## ASIA

**●MITSUBOSHI OVERSEAS HEADQUARTERS PRIVATE LIMITED**
14 Jurong Port Road, Singapore 619091
Tel:+65-6265-3933 Fax:+65-6265-0954
E-mail:moh_sales@mitsuboshi.com

**●STARS TECHNOLOGIES INDUSTRIAL LIMITED**
Eastern Seaboard Industrial Estate 64/40 Moo 4,
Tambon Pluakdaeng, Amphur Pluakdaeng,
Rayong 21140 Thailand
TEL:+66-38-954-738 FAX:+66-38-954-740

**●PT. SEIWA INDONESIA**
JL. Lombok I, Blok M2-2, Kawasan Industri
MM2100, Cikarang Barat, Bekasi 17520, Indonesia
Tel:+62-21-898-0324 Fax:+62-21-898-0325

**●PT. MITSUBOSHI BELTING INDONESIA**
Jl. Industri Raya Blok D No.4, Pasir Jaya,
Jatiuwung, Kota Tangerang 15135, Indonesia
Tel:+62-21-590-2070 Fax:+62-21-590-2071

**●PT. MITSUBOSHI BELTING SALES INDONESIA**
Wisma 77 Tower 1 Lantai 2, Jl. Letnan Jenderal S. Parman,
RT/RW: 006/003, Kel. Slipi, Kec. Palmerah, Kota Jakarta
Barat 11410, Indonesia
Tel: +62-21-536-3033 Fax: +62-21-5366-0399
E-mail: mbsi.sales@mitsuboshi.com

**●MBL SHANGHAI INTERNATIONAL TRADING CO., LTD.**
F8, NO.601 Tianshan Road, Shanghai, China
Tel:+86-21-3257-3802 Fax:+86-21-5206-7011

**●SUZHOU MITSUBOSHI BELTING CO., LTD.**
277 Liangang Road Suzhou New District Jiangsu 215129, China
Tel:+86-512-6665-8880 Fax:+86-512-6665-8886

**●MOI TECH HONG KONG LIMITED**
Unit 10, 21/F, CCT Telecom Building, No.11 Wo Shing Street,
Shatin, New Territories, Hong Kong
Tel:+852-2403-5978 Fax:+852-2422-8308

**●MITSUBOSHI BELTING-INDIA PRIVATE LIMITED**
W-191F, TTC Industrial Area, MIDC, Thane-Belapur Road,
Navi Mumbai - 400710, Maharashtra
Tel: +91-22-27788431 Fax: +91-22-27788439
E-mail:mbind.customercare@mitsuboshi.com

**●MITSUBOSHI BELTING VIETNAM CO., LTD.**
Room No.1511, 15th Floor, ICON4 Tower,
No.243A De La Thanh St., Dong Da Dist,
Hanoi, VIETNAM
Tel:+84-4-3760-6625 Fax:+84-4-6266-2608
E-mail:vietnamsales@mitsuboshi.com

## AMERICA

**●MBL (USA) CORPORATION**
601 Dayton Road, Ottawa, Illinois 61350 USA
Tel: +1-815-434-1282 Fax: +1-815-434-2897
E-mail: sales@mblusa.com
URL: www.mblusa.com

## EUROPE

**●Mitsuboshi Belting Europe GmbH**
Hansemannstrasse 63, 41468 Neuss, Germany
Tel:+49- 2131-740940 Fax:+49- 2131-7409424
E-mail: Info_de@mitsuboshi.com
URL: www.mitsuboshi.de

**●MITSUBOSHI POLAND Sp.z o.o.**
Budynek B8 ul. 3-go Maja 8, 05-800 Pruszkow, Poland
Tel:+48-22-7383930

(As of Sep. 2023)

# MITSUBOSHI BELTING LTD.



The information contained in this catalogue is for informational purpose only.
IN NO EVENT SHALL MITSUBOSHI BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOST PROFITS, ARISING OUT OF OR RELATED TO MITSUBOSHI PRODUCTS NOR FOR ANY DAMAGES ARISING DUE TO ANY USE OF MITSUBOSHI PRODUCTS NOT IN CONFORMANCE WITH THE INSTRUCTION PROVIDED BY MITSUBOSHI IN THIS CATALOGUE. MITSUBOSHI SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

Oct. 2023 edition 23CAr025