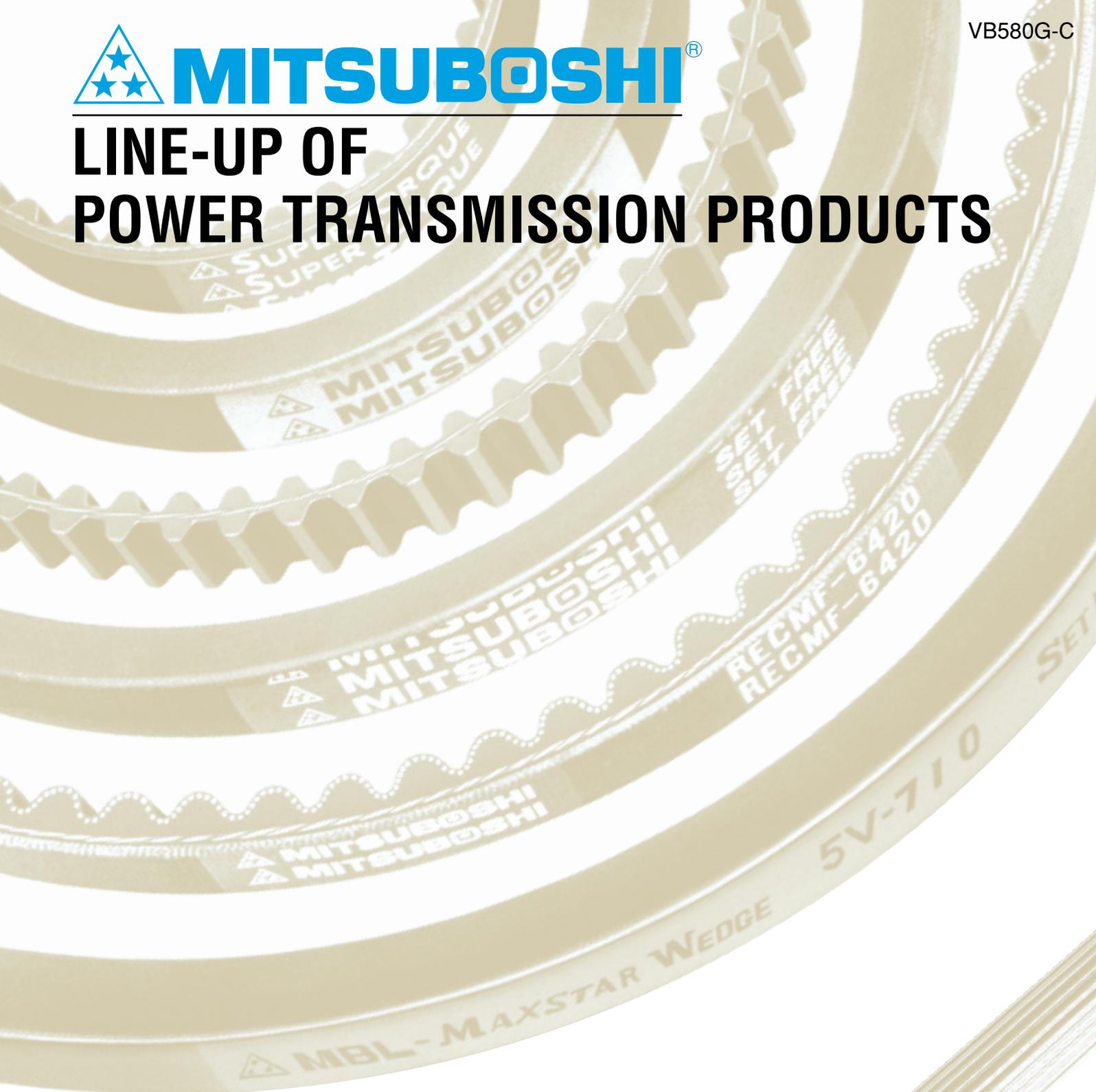


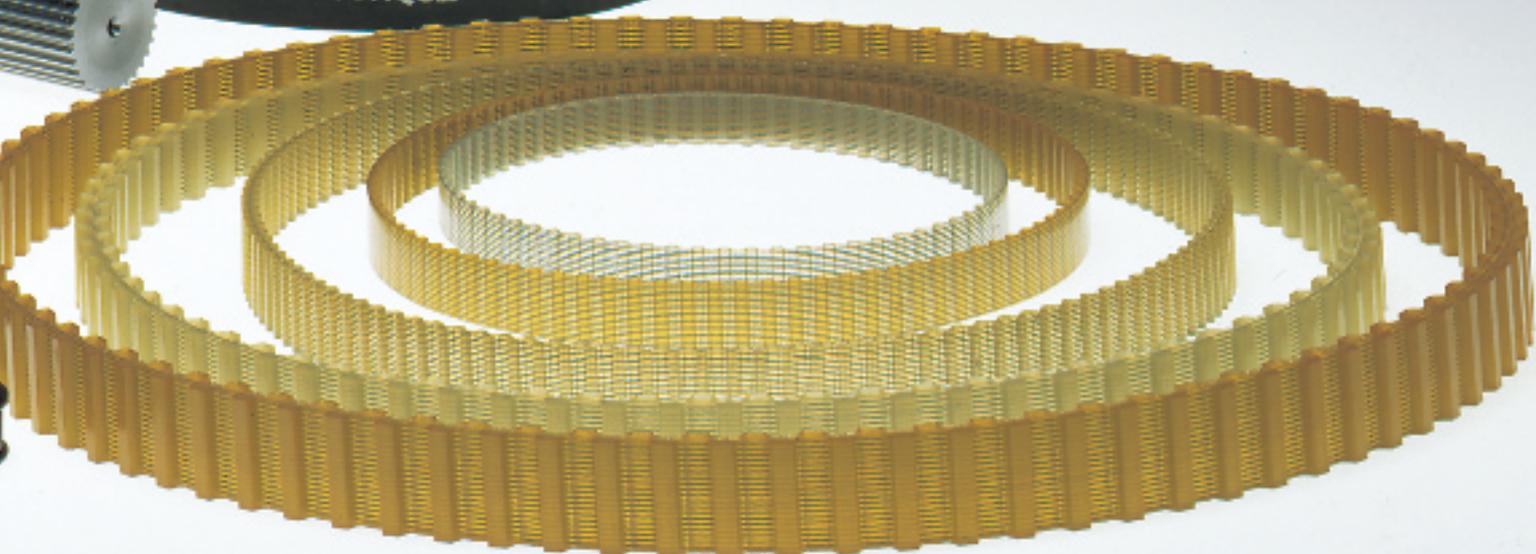


LINE-UP OF POWER TRANSMISSION PRODUCTS



To give attentive consideration
to both humanity and nature.





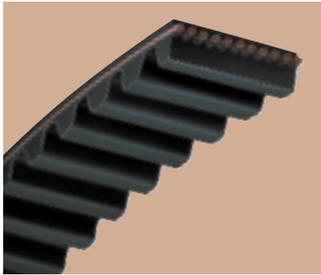
References for Selecting Power Transmission Products

Line-up of MITSUBOSHI Power Transmission Products

Drive classification	Application fields	Description		Performance characteristics	Mitsubishi's full line-up products		Picture's No			
		Materials	Profiles		Brand name	Sections				
Positive drive	Synchronous belts	OA,Home appliance	Rubber	Round tooth	High power rating	Super Torque GN	S1.5M, S2M, S3M, S5M	2		
		Industrial			Heat resistance	Super Torque G	S8M, S14M	1		
		Automotive			Bending flexibility	H Series	H8M, H14M	3		
		Industrial			Multiple-shaft drive	MFTG	S8M, M.Y, MR, XY, XR	63		
					Long span drive	Super Torque G(Double sided timing belt)	DS3M, DS5M, DS8M, DS14M	10A		
					Synchronous conveyer	Super Torque G(Open lengths)	S2M, S3M, S5M, S8M, S14M	6		
		OA,Printer carriage drive			Accurate positioning	Super Torque G(Joined type)	S8M, S14M	7		
		Industrial			STARMAX G	ST1.5, ST55, ST64, ST80, ST83, ST2.0, ST111	36			
					High torque drive	Mega Torque G	MTS5M, MTS8M, MTS14M	5A		
					Synchronous drive	TIMING BELT G	MXL, XXL, XL, L, H, XH, XXH	4		
		Automotive			Heat resistance	MFTG	ZA, ZAS, ZB, ZBS	64		
		Industrial			Multiple-shaft drive	Super Torque G(Double sided timing belt)	DMXL, DXL, DL, DH	10B		
			Long span drive	Super Torque G(Open lengths)	MXL, XL, L, H	6				
			Synchronous drive	Super Torque G(Joined type)	L, H, XH, XXH	7				
		OA,Printer carriage drive	Accurate positioning	STARMAX G	T80, T83, T111	36				
		OA,Home appliance	Clean drive	Super Torque U	S2M, S3M	34				
		Industrial	Long span drive	Super Torque U(Open lengths)	S2M, S3M					
			High torque drive	Mega Torque U	MTS8M	5B				
Industrial	Accurate positioning	STARMAX U	ST83, ST111	37						
	OA,Home appliance	Accurate positioning	STARMAX U	T80, T83, T111	37					
Home appliance	Thermo-setting Polyurethane	Trapezoidal tooth	Clean drive	TIMING BELT U	T80, T5, T10, XL, L					
			Multiple-shaft drive	TIMING BELT U(Double sided timing belt)	DT5, DT10	9				
Industrial	Thermo-plastic Polyurethane	Round tooth	Long span drive	TIMING BELT U(Open lengths)	T80, XL, L					
			Long span drive		S5M, S8M	8				
Industrial	Thermo-plastic Polyurethane	Trapezoidal tooth	Long span drive	Free Span Timing Belt	T5, T10, AT5, AT10, XL, L, H		8			
			Synchronous conveyer							
Frictional drive	V-belts	OA, Home appliance Industrial	Rubber	Less thickness	Light duty, Compact drive	FHP	3L, 4L, 5L	47		
				Standard	Versatility	Standard V		11		
					High power rating	Red V	K, M, A, B, C, D, E	11		
				Narrow	Anti-vibration	Multi V	RA, RB, RC, RD	12		
					High power rating	Maxstar Wedge, Narrow V	3V, 5V, 8V, SPZ, SPA, SPB, SPC	15		
				Agricultural	Rubber	Less thickness	Anti-vibration	Multi Maxstar Wedge	R3V, R5V, R8V	16
							Bending resistance	Standard L		
							Heat and bending resistance	Orange L		
							Heat and bending resistance	Gold L	LA, LB, LC	50B
				Standard	Heat and bending resistance, High power rating	Super Gold 1000		51		
					Heat and bending resistance, Anti-vibration	AG Series				
				Industrial	Raw edge	Cogged (Standard)	Heat resistance, High power rating	AG Series	A, B, C	51
		High power rating	Orange Cogged L					53		
		Home appliance Agricultural	Rubber	Cogged (Narrow)	Less shrinkage	Super Orange Cogged L	LA, LB, LC	54		
					High power rating	VX	AX, BX, CX	13		
		Automotive	Raw edge	Cogged (Wide angle)	High power rating	Multi VX	RAX, RBX, RCX	14		
					High power rating	Maxstar Wedge Supreme, Narrow rawedge cogged V	3VX, 5VX, SPZX, SPAX, SPBX, SPCX	17		
		For motor cycle Industrial	Raw edge cogged (Variable speed)	Wide angle cogged	Multi Maxstar Wedge Supreme		R3VX, R5VX	18		
					Prevention of Rubber dust, clutching	Bare back V	M, A, B, C	55		
		Agricultural	Thermo-setting Polyurethane	Cogged	Less thickness		LA, LB, LC	55		
					Plain	ABRASION RESISTANCE	REMF	HM, A, B, BC, MA	65	
		Home appliance, Agricultural Industrial	Thermo-setting Polyurethane	Cogged	Multi-ply	Low noise	MPMF	HM, A, B, MA	66	
					Cogged	ABRASION & BENDING RESISTANCE	RECMF	HM, A, B, BC, C, CD, MA	67	
		For motor cycle Industrial	Thermo-setting Polyurethane	Cogged	Wide angle cogged	For Diesel engine compact car	WFC	A, B	70	
					Raw edge cogged (Variable speed)	Lateral pressure resistance	RCVS · Super VS	Top width10mm~120mm	27, 28, 69	
		Agricultural	Thermo-setting Polyurethane	Cogged	Lateral pressure resistance & High power rating	DCVS	Top width20mm~120mm	29		
					High power rating	AGVS	HI, HJ, HK, HL, HM, HN	61		
		Home appliance, Agricultural Industrial	Thermo-setting Polyurethane	Cogged	High speed, Compact drive	Polymax	3M, 5M, 7M, 11M	23		
					High speed, Anti-vibration	Multi Polymax	R5M, R7M, R11M	24		
		Industrial	Rubber	Flat with round edge	High speed drive	Polyurethane M	M	42		
High speed drive	Polyurethane MB				MB, MB-L, DMB, DMB-L	43				
Elevating machine(Agricultural)	Rubber	Flat with V guided	Light duty, Clean drive							
			Flat with round edge	Field splicing	Port,Harbour,Special Port	P, H, SP	30, 59			
Industrial	Rubber	Flat with V guided	Bending resistance	Echo,Pioneer	EC, P	30, 59				
			Anti-lateral vibration	Dryflex	AA, O, OW, TN	60				
For Compress	Rubber	Flat with tension member	High speed drive	Flexstar	FL, FM, FH, FLEG, FLG, FLE, FMG, FHG	20				
			High strength	Super Flexstar	FU, FW, FY	21				
ATM Automatic ticket machine	Mirable urethane	Flat	Stable drive, Compact drive, Maintenance free	Flexstar "J" Series	J8GA, J8GE, J8H, J8HB, J6H, J6HB, J3H, J3HB	38				
			Stable drive, Compact drive, Maintenance free		JL, JLB, JL3	38				
Elevating machine(FA)	Thermo-setting Polyurethane	Flat with tension member	Low strength	Free Span Flat Belt	JN, J2N	38				
			Low strength		JU, JLU2, JLU5, JLU6	38				
OA, Home appliance Industrial	Rubber	V-ribbed	High power rating, High speed drive		UG	38				
			High power rating, High speed drive		F20, F20D	22				
Automotive	Thermo-setting Polyurethane	V-ribbed	Bending resistance, High power rating, High speed drive	Ribstar G(Bare back)	HB	39				
			Bending resistance, High speed drive	Ribstar G	J, PK, L	19				
OA, Home appliance Industrial	Rubber	Hexagon Perforated standad V	Adjustable length	Ribstar U	PK	68				
			Adjustable length		AA · BB · CC	52				
Industrial Agricultural	Thermo-Plastic Polyurethane	Round rope	Light duty, Hot melt joint	Double V belt	M, A, B, C	56				
			Hot melt joint	Perforated V rope	Star rope	Φ2~Φ10, Φ12, Φ15	26			
Industrial	Thermo-Plastic Polyurethane	V-rope	Hot melt joint	Super Star rope	Φ2~Φ10, Φ12, Φ15	26				
			Hot melt joint	Prene V rope	M, A, B	26				
Round seamless	Rubber	Hexagon rope	Hot melt joint	Prene Double V rope	AA, BB	36				
			Light duty, Clean drive	Injection roud belt		Φ3, Φ4, Φ5, Φ6				
Agricultural (Harvesting machine Vegetable)	Rubber	V-with sponge rubber	Protection of products	V belt facing sponge rubber on the back side	LA, LB, LC					
			Adjustable length	V belt with lugs	A, B, C	57				
Agricultural (Feeding machine for straw)	Rubber	standard	Adjustable length	V rope with lugs	A, B	58				
			Adjustable length							
Direct drive	Coupling	Cast iron Alminum	Flexible direct drive	Anti-misalignment Shock absorption	Hyper flex	MT, MH	73			
				Nice damping capacity	Chemi-Chan	HAS	74			

INDUSTRIAL BELTS

Positive Drive



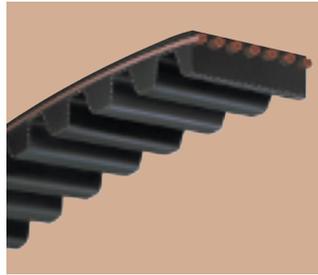
Timing belt

1) SUPER TORQUE G

Timing belt with round shape tooth profile which provides high power transmission. Expands timing belt application fields. Replaces conventional chain and gear drives.

- Wider application ranges with higher power transmission capacity.
- Longer service life.
- Lower noise level.
- Cost saving.

S8M · S14M



Timing belt

2) SUPER TORQUE GN

Small tooth pitch belt with advantages of Super Torque G. Suitable for smoother drive applications.

- Flexible belt permits smaller pulley diameters.
- Noiseless and longer service life by smooth engagement between pulley and belt.
- Higher torque transmission by small size belt.
- Assures higher positioning accuracy.

S1.5M · S2M · S3M · S5M

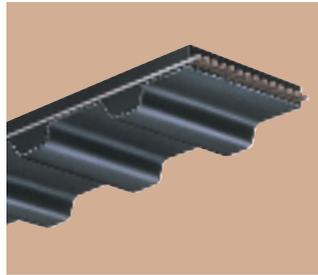


Timing belt

3) "H" SERIES

Round-shape belt tooth enables the distribution of the 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.

H8M · H14M



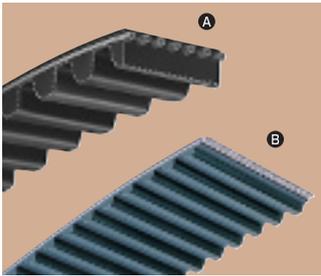
Timing belt

4) TIMING BELT G

Suitable for synchronous drives. Removes disadvantages of chain and gear drives.

- High power transmission capacity with higher transmission efficiency.
- Lower noise generation as compared with chain or gear drives.
- No maintenance required.
- Lightweight, thin and flexible characteristics allow space saving drive design.
- The ambient temperature range for operation of the standard belt is -30 to +90°C. Static conductive.

MXL · XXL · XL · L · H · XH · XXH



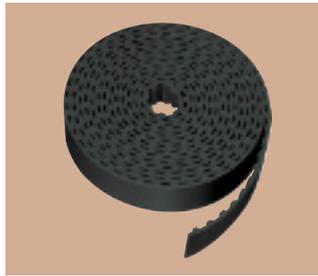
Timing belt

5) Mega Torque G & U

The power rating is about 2 times as high as rubber timing belt (Same profile pitch), when using the same pulley.

- Compact design.
- High power transmission..
- Lower Noise.

A Mega torque G MTS5M, MTS8M, MTS14M
B Mega torque U MTS8M



Timing belt

6) LONGSIZE, OPEN END BELT

Suitable for long center-distance, synchronous, back and forth drives.

- Permits larger degree of freedom in belt drive design.
- Suitable for slippless, synchronous materials handling applications.
- Suitable for long center-distance, light duty synchronous drives.

S2M · S3M · S5M · S8M · S14M
MXL · XL · L · H



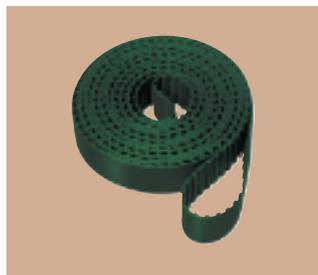
Timing belt

7) LONGSIZE, ENDLESS BELT

Recommended for long center distance drives.

- Suitable for slippless, synchronous material handling applications.
- Suitable for long center-distance, light duty synchronous drives.

S8M · S14M
L · H · XH · XXH



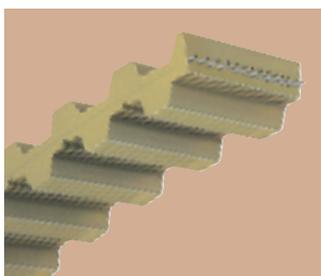
Timing belt

8) FREE-SPAN, OPEN END BELT

Thermoplastic polyurethane belt suitable for long center-distance, synchronous back and forth drives.

- Long belts (up to 100m) are available.
- Felt or urethane attachments can be made on back face of belt.
- Lubrication-free, clean drives.

T5 · T10 · XL · L · H · S5M · S8M
AT5 · AT10



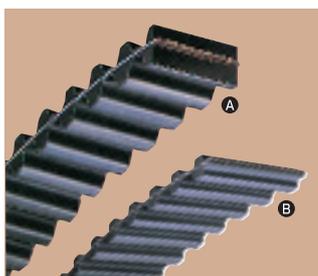
Timing belt

9) DOUBLE SIDED TG (Polyurethane)

Polyurethane belt with teeth on both faces. Recommended for positive, multi-pulley drives.

- Suitable for slippless, positive multi-pulley drives.
- Since special tooth profiles with different tooth pitches can be molded on back face, a wide variety of multi-pulley drives can be designed.
- Lighter than chains and gears. Suitable for high speed drives. Suitable for high speed drives. Space saving.

DT5 · DT10



Timing belt

10) DOUBLE SIDED TG (Rubber)

Provided with symmetrical teeth on both sides, this belt is suitable for positive, multi-pulley drives.

- Recommended for slippless, positive multi-pulley drives.
- Lighter than chains and gears. Suitable for high speed drives. Space saving.
- Maintenance free.

A DS3M · DS5M · DS8M · DS14M (Round tooth profile)
B DMXL · DXL · DL · DH (Trapezoid tooth profile)

Frictional Drive



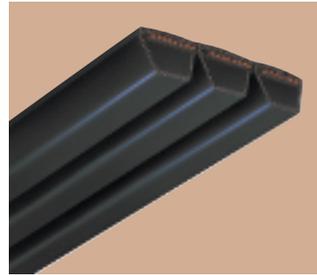
(K) M · A · B · C · D · E

Conventional V-belt/RED V-belt

11) STANDARD V-belt / RED V-belt

Most widely used power transmission belt. Economical and easily obtained for replacements.

- "SET FREE" provides assured belt length matching and easy inventory control.
- High power capacity Red V-belts are heat & oil resistance, plus static conductive.



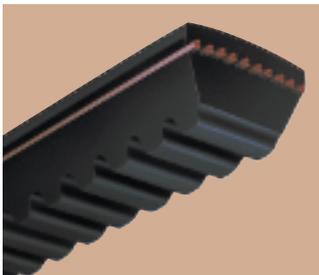
RA · RB · RC · RD · RE

Conventional V-belt

12) MULTIV

Multiple strands of standard/Red V-belts are inseparably joined, providing transverse rigidity.

- Suitable for compressors, crushers and other tough machines where belt whip, turn-over is caused by pulsating shock load.
- Useful for material handling applications by using back faces of the belts.



AX · BX · CX

Conventional rawedge cogged V-belt

13) VX

Rawedge cogged V-belt designed for industrial use.

- High capacity power transmission with space saving.
- Cogged profile yields greater belt flexibility and allows smaller pulley diameters.
- Suitable for heavy duty, high speed drives.
- High power transmission efficiency saves energy.



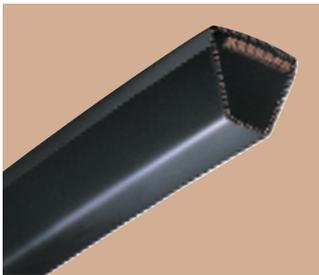
RAX · RBX · RCX

Conventional rawedge cogged V-belt

14) MULTIVX

Consists of VX type V-belts joined with tie band.

- Offers stable, vibration-free drives under pulsating shock loads.
- Cogged construction assures use of smaller pulley diameters than conventional V-belt drives.
- Suitable for vertical shaft drives such as mixers, agitators without belt jumping off the pulley.



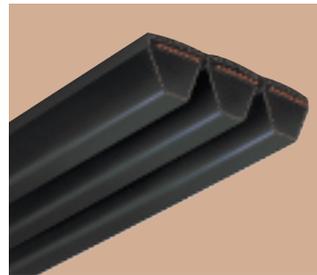
Maxstar Wedge.....3V · 5V · 8V
Narrow V.....SPZ · SPA · SPB · SPC

Narrow V-belt

15) MAXSTAR WEDGE, NARROW V

Offers high power transmission capacity with specially designed narrow top-width profile.

- Permits space saving drive designs and lower energy consumption.
- High speed drives up to 40 m/sec.
- Designed as "SET FREE" to allow multi-strand drives.
- Wedge pulleys with bushings offer easy installation.



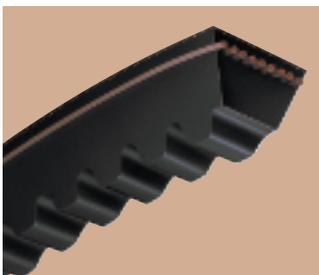
R3V · R5V · R8V

Narrow V-belt

16) MULTI-MAXSTAR WEDGE

Consists of MAXSTAR WEDGE V-belts joined with tie band.

- Does not turn over or run off the pulley even under heavily pulsating load conditions.
- Offers stable driving even in long center distance drive application.
- Applicable to vertical shaft drives with out belt running off the pulley.



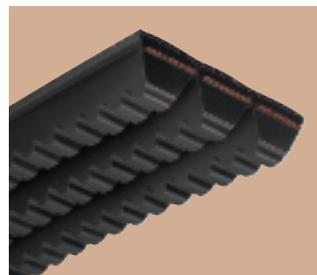
Maxstar Wedge Supreme.....3VX · 5VX
Narrow Rawedge cogged V.....SPZX · SPAX
SPBX · SPCX

Narrow V-belt

17) MAXSTAR WEDGE SUPREME NARROW RAW EDGE COGGED V BELT

Rawedge cogged MAXSTAR WEDGE V-belt.

- Combines advantages of both wedge belt and rawedge cogged belt. High power transmission capacity belt.
- Permits economical and space saving drive design.



R3VX · R5VX

Narrow rawedge cogged V-belt

18) MULTI-MAXSTAR WEDGE SUPREME

Consists of MAXSTAR WEDGE SUPREME V-belts joined with tie band.

- High power transmission belt that resolves the problems such as belt turning-over and belt running-off the pulley raised by multi-strand belt drives.
- Offers stable operation even under pulsating high shock load condition.



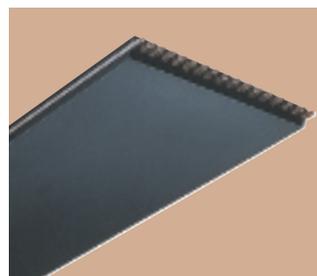
J · K · L

V-ribbed belt

19) RIBSTAR G

Combines high power transmission capacity of V-belt and flexibility of flat belt.

- Suitable for high speed, high efficiency drives.
- Flexibility allows smaller pulley diameters.
- Heat and wear resistant.
- Minimizes belt vibration and provides space saving drive design.



FL · FM · FH · FLEG · FLG · FLE · FMG · FHG

High tension flat belt

20) FLEXSTAR

Its high power transmission capacity allows space saving drive design and reduces maintenance cost.

- High speed drive up to 60 m/sec. is possible with lower vibration and noiseless running.
- Heat and oil resistant. Also static conductive.
- Smaller belt stretch reduces belt retensioning intervals. Also allows low-cost belt drives.

INDUSTRIAL BELTS

Frictional Drive



FU · FW · FY

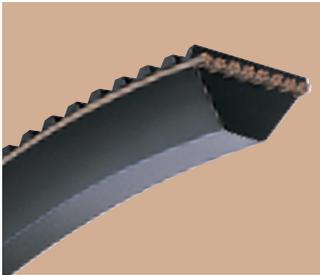
High cord tension flat belt
21) SUPER FLEXSTAR
 Suitable for compress. Three types are available. FU for low pressure, FW for high pressure, FY for oil resistance.

- Abrasion resistance, high strength.
- Use for conveyer application except compressed.



F20 · F20D

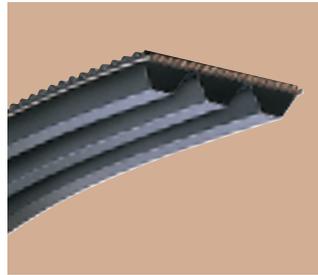
Thermoplastic polyurethane Flat belt
22) FREE-SPAN FLAT BELT
 This flat belt is applicable to conveying of light weight products and lifting up and down of elevating machine. Steel wire cords provide low stretch and few variation of length corresponding to change in temperature and humidity.



3M · 5M · 7M · 11M

Wide angle polyurethane V-belt
23) POLYMAX
 60° angle series wide angle belt.

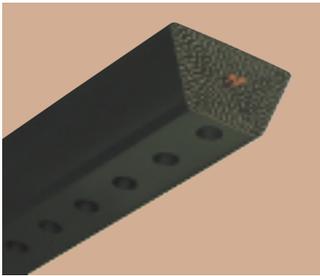
- Suitable for high speed, smooth drives with minimum vibration.
- Allows space saving drive design.
- Smaller belt stretch and shrinkage offer maintenance-free operation.
- Long service life with weather resistance.



R5M · R7M · R11M

Wide angle polyurethane V-belt
24) MULTI POLYMAX
 Back faces of POLYMAX V-belts are joined with poly-amide fabric and polyurethane.

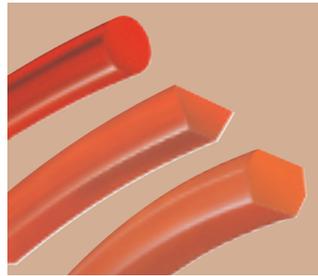
- Stable running.
- High-speed drives with reduced vibration.
- Smaller stretch offers maintenance-free operation.



M · A · B · C

Standard V-belt
25) Perforated V-belt
 Open-ended V-belting with joint holes can be adjusted to required length simply with splicing bracket.

- Recommended for temporary use when the existing V-belt has to be replaced urgently.
- Permits easy belt replacement without requiring machine disassembly.
- Belt length for multi-strand drive can be adjusted easily.
- Can be used for material handling purposes with multi-strand drive.
- Suitable for trial running of machines.



Prene rope
26) STAR ROPE (Φ2-Φ15) / Prene V (M · A · B) / Prene HEXAGON (AA · BB) / SUPER STAR ROPE (Φ2-Φ15)
 Open-end polyurethane belting.

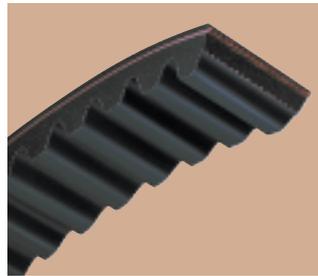
- Suitable for complicated drives such as multi-pulley drives, multi-directional drives, etc.
- Easily joined by hot melt method. Required belt length can be easily obtained.
- Abrasion, oil and weather resistant.



Top width 10~120mm

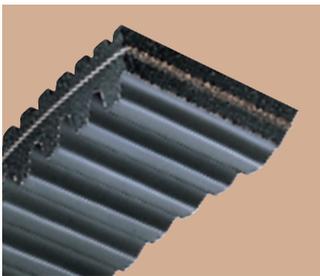
Rawedge cogged variable speed belt
27) RCVS
 Specially designed for variable speed applications.

- Flexible and side pressure resistant.
- Heat, oil, chemical and abrasion resistant.
- Longer service life with higher flexibility.



Rawedge cogged variable speed belt
28) SUPER VS
 High efficiency, precision, long-life belt designed for variable speed applications.

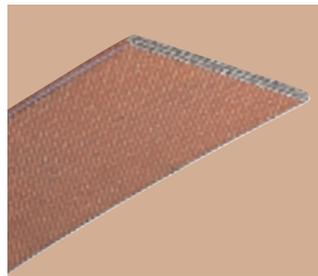
- Smaller stretch and high flexibility characteristics allow space saving belt drive design.
- Permits accurate and smooth speed change.
- Oil, heat and side wall pressure resistant.



Top width 20~120mm

Double cogged variable speed belt
29) DCVS
 Belt designed for high-horsepower applications or compact drives.

- High power transmission capacity with higher side wall pressure resistance.
- Oil, heat and abrasion resistant.



P · H · SP

Flat belt
30) SPECIAL PORT/PORT/HARBOR
 Strong belt consisting of best quality cotton fabric.

- Resistant to frequent bendings with minimum stretch and shrinkage.
- Heat, water and oil resistant.

OFFICE AUTOMATION & HOME APPLIANCE MACHINERY BELTS

Positive Drive



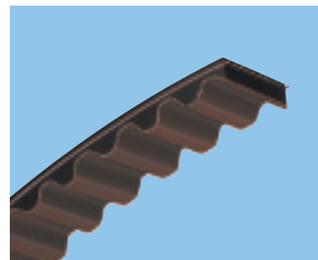
S1.5M · S2M · S3M · S5M

Timing belt

31) SUPER TORQUE GN

Consisting of round shape tooth profile, this belt is best suited to high precision, smooth drives for computers, OA equipment, etc.

- Flexible belt permits smaller pulley diameters.
- Smooth for noiseless engagement with pulleys.
- Useful for lower shaft load drives.
- Larger torque can be transmitted by smaller size belt.



S2M · S3M · S5M · ST80 · ST83 · ST111
MXL · XL · T83 · T111 · XXL

Timing belt

32) BARE BACK

No rubber coated on tooth fabric to reduce dust and noise. Suitable for use in clean environments.

- Since almost abrasion rubber powder comes off during operation, drive units and peripheral areas.
- Since pulleys are almost free from rubber dust, smooth engagement with pulleys can be obtained.
- Lower friction coefficient offers noiseless operation.
- Suitable for OA, FA equipment, household electric and other precision machines.



MXL · XL · L

Timing belt

33) TIMING BELT G

Synchronous drive belt that resolves the problems raised by chain and gear drives.

Shorter tooth pitch belts are suitable for precision devices and information apparatuses.

- Light-weight, thin and flexible belt permits space saving drive design.
- Offers high efficiency, high speed drives.
- Lower noise as compared to chain and gear drives.
- Maintenance-free.



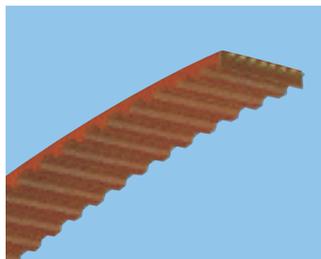
S1.5M · S2M · S3M

Timing belt

34) SUPER TORQUE U

Consisting of round shape tooth profile and polyurethane, this belt is suitable for clean drive and OA equipments etc.

- Flexible belt permits smaller pulley diameters.
- Smooth for noiseless engagements with pulleys.
- This belt has fine appearance and does not stain peripheral devices.
- The most suitable is for high precision and light duty power transmission.



T80

Timing belt

35) TIMING BELT U

Polyurethane belt suitable for use in clean environments.

- Best suited to high precision, light duty power transmissions.
- Suitable for paper feeding, since this belt has a fine appearance and does not stain peripheral devices.
- Since no rubber powder comes off, clean transmissions can be obtained.
- Special belt configurations are available on request.



T80 · T83 · T111
ST55 · ST64 · ST80 · ST83 · ST111
ST1.5 · ST2.0

Timing belt

36) STARMAX G

Since the ST profiles are designed for smooth meshing by reducing interference between belt and pulley at meshing and have almost zero backlash, these belts are suitable for use in accurate positioning.

- Flexible belt permits smaller pulley diameter.
- Larger torque can be transmitted by smaller size belt.
- Suitable for printer carriage drive.



T80 · T83 · T111
ST83 · ST111

Timing belt

37) STARMAX U

Since the ST profiles are designed for smooth meshing by reducing interference between belt and pulley at meshing and have almost zero backlash, these belts are suitable for use in accurate positioning.

- Dust free, clean drive.
- Flexible belt permits smaller pulley diameter.
- Suitable for printer carriage drive.

Frictional Drive



J8GA · J8GE · J8H · J8HB · J6H · J6HB
J3H · J3HB · JL · JLB · JN · J2N

High efficient flat belt

38) FLEXSTAR " J"SERIES

Suitable for ATM, automatic ticket machine and exchanging machine. The thickness of the belt will be supplied up to 0.65mm. Two type low modulus spec. (JL, JLB) and high modulus spec. (J8GA, J8GE, J8H, J8HB, J6H, J6HB, J3H, J3HB)-are available.

- Abrasion resistance, heat resistance, oil resistance anti-oxidation.
- Easy to installation because of flexibility.



HB

V-ribbed belt

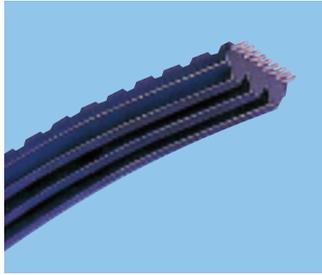
39) RIBSTAR G

Combines advantages of both V-belt and flat belt.

- Suitable for large speed ratio drives.
- Flexibility allows smaller pulley diameters.
- Suitable for drives with larger speed ratios.
- Heat and abrasion resistant.

OFFICE AUTOMATION & HOME APPLIANCE MACHINERY BELTS

Frictional Drive



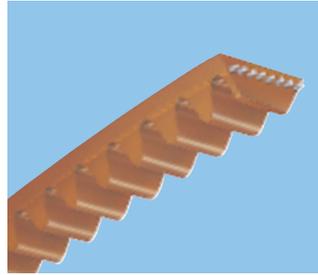
HB • JT • JBT

V-ribbed belt

41) RIBSTAR U

Polyurethane belt with advantages of both flat belt and V-belt.

- Since nylon cord is used as tensile member, this belt is flexible and can be used with small diameter pulleys (20 mm min.). Less bending fatigue.
- Offers smoother rotation with minimum vibration.
- Suitable for high speed drives.
- Abrasion, oil and ozone resistance.



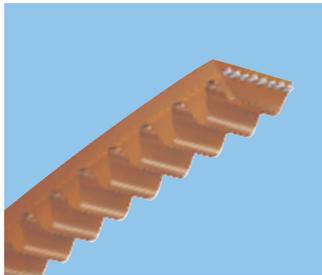
M

Light duty V-belt

42) POLYURETHANE V

Transparent polyurethane belt with tension member of strong, low stretch synthetic cords. Minimizes rubber dust generation.

- Wear resistance. Minimizes rubber dust. Offers clean drives.
- Oil resistance.
- Highly abrasion resistance in spite of higher coefficient of friction.



Single cogged type (MB)

Light duty V-belt

43) POLYURETHANE MB

Small size, light duty transparent polyurethane belt.

- Higher flexibility allows smaller pulley diameters.
- Higher abrasion resistance offers clean drives.
- Oil resistance.



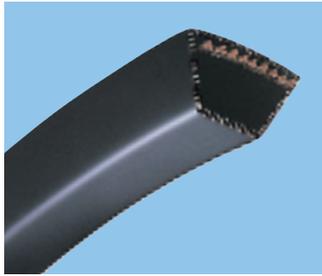
3M • 5M • 7M

Wide angle V-belt

44) POLYMAX

60° angle series wide angle Polyurethane V belt.

- Suitable for high speed, smooth operations with minimum vibration.
- Allows space saving drives design.
- Lower stretch provides maintenance-free operations.
- Weather resistance and long service life.



M • A • B

Conventional V-belt

45) STANDARD V

Most widely used power transmission belt. Economical, and easily available for replacement.



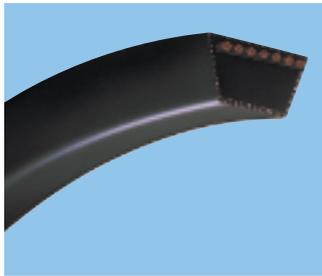
M • A • B

Conventional V-belt

46) BARE BACK V

Minimum quantity of rubber is attached to belt surface.

- Rubber abrasion is minimized. Keeps machines and peripheral areas clean.



3L • 4L • 5L

Less Thickness V-belt

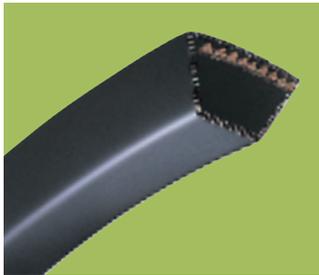
47) FHP

Light duty V-belt with reduced thickness.

- Highly flexible. Suitable for back side idler applications.
- Allows smaller pulley diameters compared to drives with standard V-belts.

AGRICULTURAL BELTS

Frictional Drive



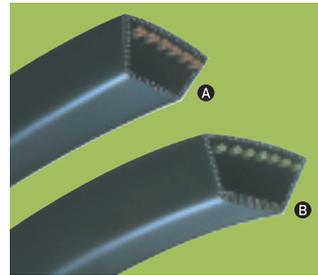
M · A · B · C · D

Conventional V-belt

49) Standard V

Generally used in agricultural machinery. (Use other type belts under tough drive conditions.)

- Economical, Available in various sizes.
- Designed as "SET FREE" to permit multiple belt drives without matched set.



LA · LB · LC

Less Thickness V-belt

50) NEW ORANGE[®] / SUPER GOLD 1000[®]

Developed specially for agricultural applications.

- Highly flexible. Suitable for small pulley/ reverse bend drives.
- Resistant to heavy shock load of agricultural machinery.
- Resistant under higher temperature conditions in agricultural machinery.



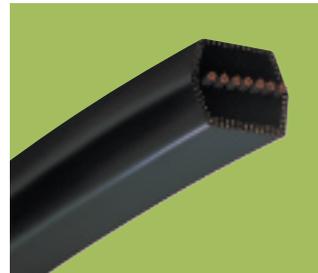
A · B · C · D
LA · LB · LC

Conventional · Less Thickness V-belt.

51) AG SERIES

This belt meets special quality requirements for agricultural machinery.

- Meets most requirements, such as shock resistance, flexibility, reverse bending capability and heat resistance.
- Belt quality grades of AGI through AG10 can be selected so as to fulfill various functional requirements.



AA · BB · CC

52) DOUBLE V-BELT

Both bottom and top faces can be used for power transmission.

- Best suited to multi-pulley drives.
- Highly flexible.



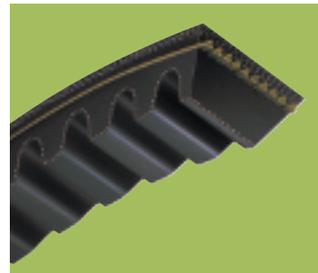
LA · LB · LC

Less Thickness rawedge cogged belt

53) ORANGE COG

Rawedge cogged belts developed for agricultural machinery applications.

- Less heat generation. Heat and crack resistant.
- Suitable for drives with back side idler.
- Excellent flexibility permits space saving design with smaller pulley diameter.



LA · LB · LC

Less Thickness rawedge cogged belt

54) SUPER ORANGE COG

Rawedge cogged ORANGE belt was further improved for agricultural machinery applications.

- Minimizes belt stretch.
- Resistant to side pressure. Has high power transmission capacity.



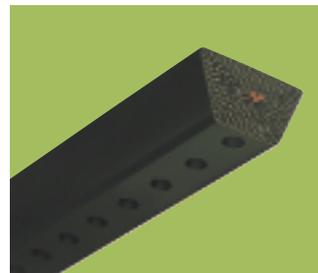
LA · LB · LC

Less Thickness V-belt

55) BARE BACK V

This belt was developed for effective functioning of belt type clutches used in agricultural machinery.

- Low coefficient of friction belt surface guarantees smooth belt clutching.
- Lower friction coefficient on belt sides prevents sudden start.



M · A · B · C

Conventional V-belt

56) PERFORATED V-BELT

Open end belt can be jointed to be necessary length easily with splicing metal.

- Useful for urgent v-belt replacement (for temporary use.)
- Allows easy belt replacement without machine disassembly.
- Belt length can be easily adjusted.
- Useful for material handling purposes with multiple shaft drive.
- Economical belt inventory.



A · B · C

Special V-belt

57) V-BELT WITH LUGS

Back side of belt is configured with necessary shapes of projections.

- Useful for feeding and discharging straw in such agricultural machinery as combine, binder, grain thresher, harvester, etc.



A · B

Special V-ropo

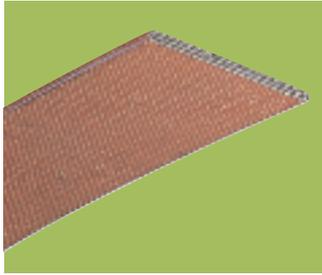
58) V-ROPE WITH LUGS

V-belt with joint holes with projections on the back face.

- A-type open end V-belt is usually used for base belt.

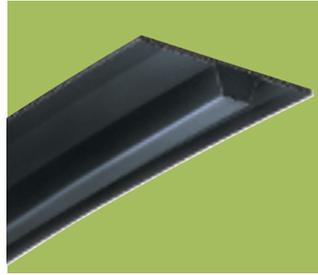
AGRICULTURAL BELTS

Frictional Drive



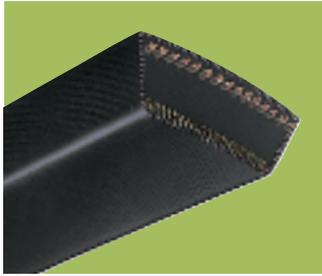
Flat belt
**59) SPECIAL PORT/PORT/
 HARBOR/ECHO/PIONEER/
 STICK BAND**
 Strong flat belt consisting of best quality cotton fabric.
 ● Has excellent flexibility with minimum stretch and shrinkage.
 ● Heat, water and oil resistance.

P · H · SP



Flat belt for lifter
**60) DRYFLEX/FLAT BELT WITH V-
 SHAPED ATTACHMENT.**
 The DRYFLEX is mounted with buck-ets and used for lifter in dryer, rice cleaning machine, rice huller, etc.
 ● Lower stretch/shrinkage extends belt retensioning interval and reduces take-up stroke.

AA · O · OW · TN



Wrapped variable speed belt
61) AGVS
 Wrapped belt developed as a variable speed belt for large agricultural machinery.
 ● Resistant to shock loads and vibration.
 ● High abrasion resistance provides longer service life.

HI · HJ · HK · HL · HM · HN



Rawedge cogged variable speed belt
62) RCVS
 High power transmission capacity, raw-edge cogged variable speed belt for large agricultural machinery.
 ● Excellent side wall pressure resistance provides longer service life.

Top width : 10~100mm

AUTOMOTIVE BELTS

Positive Drive



Timing belt
63) MFTG(Round tooth)
 Timing belt for driving Over Head Camshaft in automotive engine. Installed inside engine compartment as an important functional component.

- Tension member is the secret of the belt's strength and resistance to elongation.
- Heat, oil and abrasion resistance.
- Smooth engagement of belt with pulley allows high speed operation.

S8M · MY · MR · XY · XR

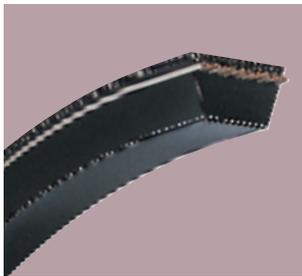


Timing belt
64) MFTG(Trapezoidal tooth)
 OHC drive timing belt that overcomes severe operating condition in engine compartment.

- High tensile strength gives remarkably small belt stretch.
- Heat, oil and abrasion resistance.
- Permits lightweight drive design with lower noise as compared to chain drives.

ZA · ZAS · ZB · ZBS

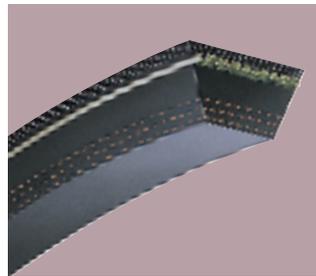
Frictional Drive



Rawedge V-belt
65) REMF
 Fabric free side face, flexible belt developed for automotive applications.

- Mainly used for driving fans, alternators and air conditioners.
- Heat and oil resistant.
- Large gripping capacity reduces belt slip. High power transmission capacity belt.

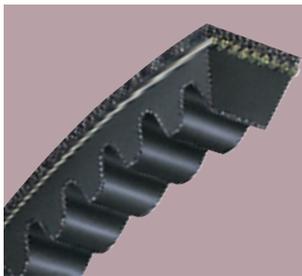
HM · MA · A · B · BC



Rawedge V-belt
66) MPMF
 Laminated fabric construction provides smooth and noiseless drives.

- Large gripping capacity reduces belt slip.
- Smaller stretch reduces belt noise.
- Abrasion, shock, bending and crack resistance extends belt service life.
- Also heat resistance.

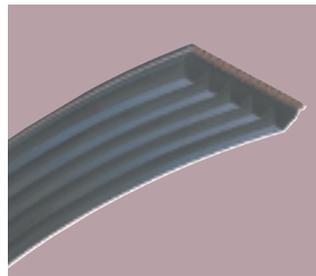
HM · MA · A · B



Rawedge V-belt
67) RAWEDGE COGGED V-BELT (RECMF)
 Mainly used belt for heavy trucks and buses because of its longer service life.

- Excellent flexibility permits smaller pulley diameters and reduces energy consumption caused by bending.
- Performance remains unchanged even in high-speed operations.
- Heat and oil resistant provides longer service life.
- Smaller stretch offers maintenance free operation.

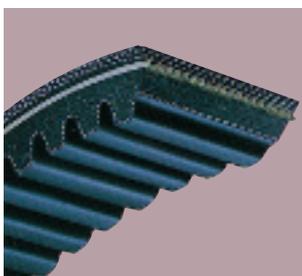
HM · MA · A · B · BC · C · CD



V-ribbed belt
68) RIBSTAR G
 V-ribbed belt that combines the high power transmission capacity of V-belt and the flexibility of flat belt. Specially designed to fulfill various functional requirements as automotive belt, such as lower energy consumption and longer service life .

- Have higher power transmission capacity.
- Flexibility allows multi-pulley drives.
- Allows high speed drives with smaller pulley diameters.
- Heat and abrasion resistance.
- Minimized belt stretch.

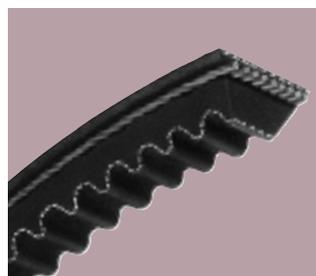
K



Rawedge cogged variable speed belt
69) RCVS
 Variable speed belt for use in motorcycles, snowmobiles and golf carts.

- Excellent flexibility and side wall pressure resistance allow smaller pulley diameters.
- Excellent in heat, oil and abrasion resistance.
- Flexible characteristics provides longer service life.

Top width:10-100mm

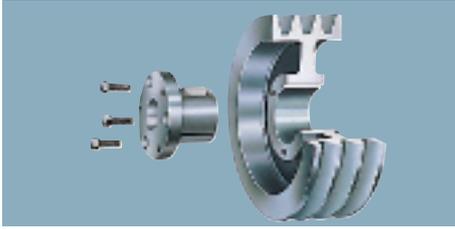


Wide angle flat cogged
70) WFC
 Wider angle(52°) as compared with standard. Cogged profile allows improvement of bending fatigue resistance.

A · B

POWER TRANSMISSION PRODUCTS

Pulleys



71) BUSHING PULLEY

Applicable to MAXSTAR WEDGE V-belt.
Easily assembled/disassembled with a spanner.
● Damage to shaft can be avoided. This extends shaft life.
● No bore finish is required while installation.
● Pulley position can be adjusted easily. Centering is also simple.



72) TIMING PULLEY

Efficient power transmission by timing belt can only be attained by smooth engagement between a high precision belt and accurately machined pulleys.
● Finished by hub-cutter, the pulleys assure desirable power transmission.
● Optional requirements in material, shape and finishing are available on request.

Coupling



73) HYPER FLEX COUPLING

Two types-MT and MH-are available. The MT type utilizes compressive stress in elastic rubber.

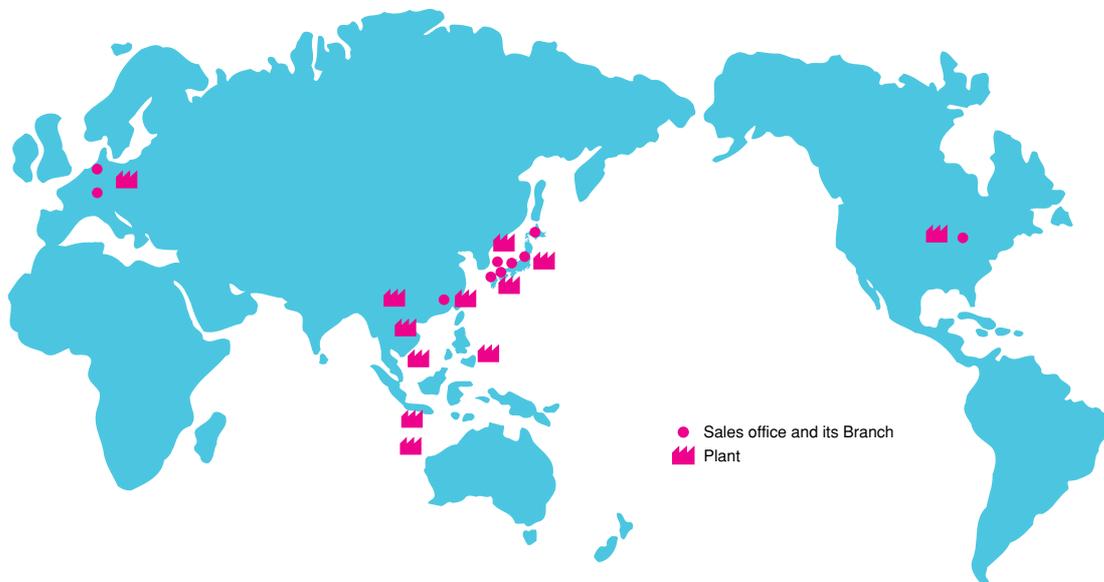
- MT type: ● Smaller sized offers larger torque transmission capacity. General purpose coupling.
● Can be installed easily. Maintenance free.
● Oil and abrasion resistant polyurethane elastic spiders are also available as stock.
- MH type: ● Large flexibility damps impact loads.
● Applicable as torque limiters.



74) CHEMI-CHAN

Since the coupling prevent the oscillation of servo motor and up the gain, accuracy in positioning will be improved.

- Non backlash.
● Suitable for X-Y table with ball screw and semi-conductor production equipment.



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