

# GATES INDUSTRIAL POWER TRANSMISSION

A COMPREHENSIVE PRODUCT RANGE

01/2019



DRIVEN BY POSSIBILITY™



## HEAVY DUTY V-BELTS



### Vulco Power II – Classical V Belt

- Concave Sidewall provides more wedging effect
- Textile cover protects against abrasion.
- Visually high value product.
- Resistance to oil, heat, ozone, sunlight, weather, ageing.
- Static conductive (ISO 1813).
- Polyester tensile member withstands recurrent shock loads.

Section	Top Width (WxH)	Length (Li)
A	$\frac{1}{2} \times \frac{5}{16}$ (12.7x7.9mm)	18" - 214"
B	$\frac{21}{32} \times \frac{13}{32}$ (16.6x10.32mm)	23" - 214"
C	$\frac{7}{8} \times \frac{17}{32}$ (22.2x13.5mm)	42" - 214"



### Super HC Plus™ Vextra™

- Expanded temperature range resists heat and cracking
- Increase flexibility ideal for small diameter sheaves
- Reduced bending stress improves efficiency
- Flex bonded tensile cords reduce the need to retension
- Precision-machined sidewalls reduce vibration and wear

Super HC™ Plus Vextra™ EPDM Belts	Width mm	Height mm
XPZ/3VX	10	8
XPA	13	10
XPB/5VX	16	13



### Quad Power® III EPDM Belts

- Top of the range narrow V-belt for heavy-duty industrial drives.
- Improved resistance to outside bends allows the use of back idlers.
- The new optimized notch profile makes the belt run smoothly in the pulley groove.
- Extended temperature range: from -40°C up to +110°C

Quad-Power® III EPDM Belts	Width mm	Height mm
XPZ/3VX	10	8
XPA	13	10
XPB/5VX	16	13
XPC	22	18



## HEAVY DUTY V-BELTS



### Predator® Belts

- At least 30% more horsepower than standard V-Belts
- Stretch half as much as traditional V-Belts, Kevlar tensile cord
- Double fabric cover for maximum abrasion resistance.
- Shock load resistant
- The best problem solver available
- Recommended for drives requiring high-impact strength and load-carrying power.

Predator® Belts	Width mm	Height mm	Predator® Belts	Width mm	Height mm
AP	12.7	7.9	8VP	25.4	22.2
BP	16.7	10.3	SPBP	17	13
CP	22.2	13.5	SPCP	22	18
5VP	15.9	13.6			



### Tri-Power® Belts

- Are made with Gates exclusive EPDM construction for higher heat resistance, and smoother running and a longer service life.
- Have specially designed notches and lateral rigidity to support the cord with precision-machined sidewalls for better length control, product uniformity and consistency

Super HC™ Plus Vextra™ EPDM Belts	Width mm	Height mm
AX	1/2"	5/16"
BX	21/32"	13/32"
CX	7/8"	17/32"



### Micro-V® Belts

- high flexibility, reduced heat build suitable for flat pulleys
- Polyester Cords for High flexibility, low elongation
- Static conductive - No build-up of static electricity
- Fibre-loaded compound with Stabilisation of cords
- Oil, heat and ozone resistant

Section	Pulley Groove Pitch mm
PJ	2.34
PK	3.56
PL	4.70
PM	9.40



## LIGHT DUTY V-BELTS



### Truflex® V-Belts

- Feature superior length stability for minimal take-up requirements.
- Gives optimum service on fractional horsepower V belt drives including back idler applications.
- Suitable for all industrial light duty applications, usually fractional horsepower (FHP) motors.

Truflex® V-Belts	Width mm	Height mm
0	6.4 (1/4")	3.2 (1/8")
1	9.5 (3/8")	5.6 (7/32")
2	12.7 (1/2")	7.9 (5/16")
3	16.7 (21/32")	9.5 (3/8")



### PowerRated® V-Belts

- Meets the requirements of higher power, clutching heavy shock loaded and back idler driven lawn and garden equipment
- Can be used as a substitute for equivalent sizes of Truflex® belts.
- Recommended for heavy-duty drives and clutching applications.

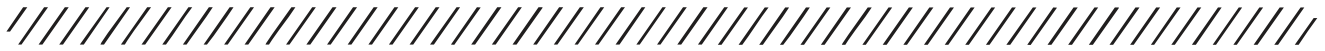
PowerRated® V-Belts	Industry Designation	Width mm
67	3L	9.5 (3/8")
68	4L	12.7 (1/2")
69	5L	16.7 (21/32")



### Polyflex® Belts

- Polyurethane compound, superior to conventional belt materials, offers high fatigue and wear resistance and a high friction coefficient.
- Improves adhesion to the tensile cords.
- Extremely resistant to heat, chemicals and oil.
- Ribbed top provides lateral rigidity without increasing bending stresses and keeps the belts running cool.

Polyflex® Belts	Width mm	Height mm
3M	3	2.3
5M	5	3.3
11M	11	7.1



## LIGHT DUTY V-BELTS



### Polyflex® JB™ Belts

- Joined belt construction enhances belt stability.
- Small cross-section suited for small drives.
- Ribs ensure lateral rigidity and relieve bending stress.

Polyflex® JB™ Belts	Width mm	Height mm
3M	3	2.3
5M	5	3.3
7M	7	5.3
11M	11	7.1

## SYNCHRONOUS BELTS



### Poly Chain® GT® Carbon™ Belts



- Able to outperform roller chain in even the most demanding high-torque applications.
- Patented use of Carbon Fiber as the tensile cord in this belt.
- Provides increased horsepower rating for greater power density and compactness and increased flexibility.

Poly Chain® GT® Carbon™ Belts	Pitch mm	T mm	B mm
8MGT	8	3.4	5.9
14MGT	14	6.0	10.2

\* Extended made to order lengths available



### PowerGrip® Timing® Belts



- PowerGrip Timing Belts Trapezoidal tooth profile makes this belt well suited for use in positioning applications.
- Fibreglass tensile cords resist elongation.
- Eliminates lubrication and re-tensioning to reduce maintenance and labor required on drives.

PowerGrip® Timing® Belts	Pitch mm	T mm	B mm
XL	5.08 (1/5")	1.27	2.30
L	9.53 (3/8")	1.91	3.50
H	12.7 (1/2")	2.29	4.00
XH	22.22 (7/8")	6.35	11.40
XXH	31.75 (1.1/4")	9.53	15.20



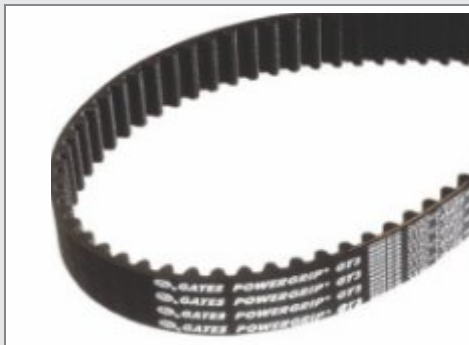
## SYNCHRONOUS BELTS



### PowerGrip® GT®/PowerGrip® GT® 2 Belts

- High horsepower and torque-carrying capacity
- Low noise and vibration with narrower drive designs
- Accurate registration
- No maintenance or equipment downtime
- Long life, excellent abrasion resistance Energy Efficiency

Powergrip® GT Belts	Pitch mm	T mm	B mm	Powergrip® GT Belts	Pitch mm	T mm	B mm
2GT	2	0.75	1.38	8MGT	8	3.4	5.6
3GT	3	1.14	2.4	14MGT	14	6.0	10.0
5GT	5	1.93	3.8				
8YU	8	3.02	5.2				
EV 8YU	8	3.02	5.0				



### PowerGrip® GT® 3 Belts

- Outperforms all other synchronous rubber belts.
- Ungraded Fiberglass tensile cord provides high strength, excellent flex life, and high resistance to elongation.
- Transmits up to 30% more power than previous generation belts.
- Static conductive to ISO9563 as a standard feature.

PowerGrip® GT® 3 Belts	Pitch mm	T mm	B mm
8MGT	8	3.4	5.9
14MGT	14	6.0	10.2



### PowerGrip® Twin Power Timing Belts

- Precision-formed elastomeric teeth and body.
- Nylon fabric on both tooth sides resists wear.
- Fibreglass tensile member resists elongation and offers excellent flex life.

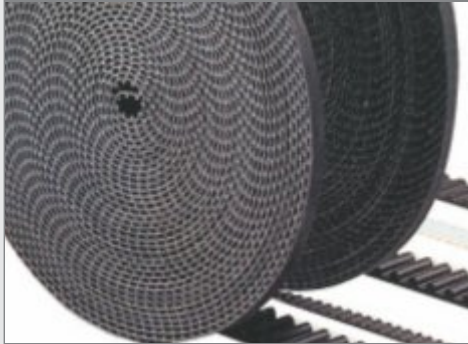


#### PowerGrip® Twin Power Timing Belts

Available in classical HTD, GT/2



## SYNCHRONOUS BELTS



### Long Length Rubber Belting

- Fibreglass or steel cord for rubber construction.
- Steel cord for polyurethane SynchroPower® construction.
- Aramid cord for Poly Chain® GT construction.

Long Length Rubber Belt	Pitch mm	T mm	B mm	Long Length Rubber Belt	Pitch mm	T mm	B mm
3MR	3.0	1.1	2.4	14M	14.0	6.1	10.0
5MR	5.0	1.9	3.8	XL	5.08(1/5")	1.3	2.3
8MR	8.0	3.3	6.0	L	9.53(3/8")	1.9	3.6
3M	3.0	1.1	2.4	H	12.7(1/2")	3.4	4.3
5M	5.0	2.1	3.8	8MGT	8.0	3.4	5.9
8M	8.0	3.4	6.0	14MGT	14.0	6.0	10.2



### Gates Mectrol Polyurethane Synchronous Belts

- Allows greater slitting flexibility and reduced trim waste.
- High abrasion resistance.
- Exceptional surface finishes from improved mold manufacturing and handling techniques.
- UV stable urethane maintains consistent color over time.

Gates Mectrol Polyurethane Synchronous Belts - Size Range
XL, L, H, XH
T5, T10, T20
ATS, AT10, AT20
HTD5, HTDB, HTD14

## METALS



### Poly Chain® GT® 2 Sprockets

- Use with Poly Chain® GT® 2, Poly Chain® GT® or Poly Chain® GT® Carbon™ Belts.
- Full split in bushing allows easy installation and removal.
- Precise sprocket design produces positive, press fit to shaft.
- Smaller, narrower sprockets save shaft space, keep the load closer to bearing and extend life of reducer.
- Sprockets are precision manufactured and static balanced.



## METALS



### PowerGrip® GT® 2 Sprockets

- Use with PowerGrip® GT®2 and PowerGrip® GT® Belts.
- Full split in bushing allows easy installation and removal.
- Precise sprocket design produces positive, press fit to shaft.
- Smaller, narrower sprockets save shaft space, keep the load closer to bearing and extend life of reducer.
- Precision manufactured and static balanced.



### PowerGrip® Flexible Couplings

- A positive dry coupling that never requires lubrication.
- A strong, highly efficient positive coupling for absorbing load pulsations and shocks.
- Variation in length: The overall length of the PowerGrip® Flexible Coupling is easily varied - by simply changing the length of the sleeve.



### Taper-Lock Bushing & QD Bushing

- Use with all Taper-Lock & QD style sheaves, sprockets and pulleys
- Made to precise tolerances.
- Available in popular bore size.





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