

BELT DRIVES

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BELTS | PULLEYS | CHAINS | SPROCKETS | SHAFT FIXINGS | COUPLINGS | GEARED DRIVES | **BELTS | PULLEYS** | CHAINS | SPROCKETS | SHAFT FIXINGS | COUPLINGS

Fenner[®]

the mark of engineering excellence



BELT DRIVES

As the ideal solution for standardised, cost effective transmissions, friction and synchronous belt drives offer a wide range of speed ratios, centre distances and power capability. Belt drives also excel in many conveying and positioning applications.

Fenner® belts and pulleys have an enviable worldwide reputation achieved by consistent performance in the harshest environments.

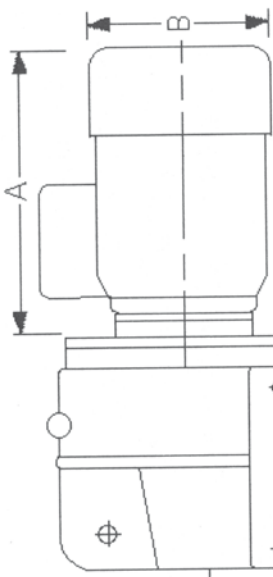
From high power drives in quarries, critical pumps in chemical processing plants, to precise control in scientific equipment, **Fenner®** belt drives continue to provide exceptional service.

Built using the highest quality materials, with technically advanced production processes, and backed by rigorous quality procedures, **Fenner®** belts, pulleys and **Taper Lock™** shaft fixings together form the complete answer.

When you evaluate the quiet operation, extended life, increased efficiency and zero maintenance that are built in to the **Fenner®** range of belt drives, you may be penny wise but would be pound foolish to consider any other!



The Fenner® power transmission products Quality Assurance Initiative covers the full range of power transmission products. It is a worldwide commitment to quality and a guarantee to our customers, wherever they are located, that the performance of the products we supply will always meet appropriate exacting, internationally recognised industry standards.



FRICION DRIVES

Fenner®

Classic

V belt

Ideal for high ratio or small pulley drives, the Fenner® Classic V belt has a specially treated jacket to give superior anti-static, heat and oil resistant properties.

- 'PB®' (Precision Build) technology
Accuracy and stability of length
'One Shot' tensioning - no matching necessary
- Complete range of lengths and sections



Power Plus

wrapped wedge belt

Built using advanced technology, Fenner® Power Plus achieves economic performance by use of low elongation polyester cords and abrasion resistant impregnated jacket fabric.

- 'PB®' (Precision Build) technology
Accuracy and stability of length
'One Shot' tensioning - no matching necessary
- Meets highest industry standards for static conductivity and non-ignition properties
- Heat and oil resistant
- ISO & RMA sections



CRE Plus

cogged raw edge belt

Fenner® CRE Plus excels in the high ratio applications used in today's compact drive envelopes, by combining flexibility with structural stability.

All the advantages of Power Plus as well as:

- Special compounds used to improve flexibility and strength
- Higher running efficiency than wrapped belts



SYNCHRONOUS DRIVES

Classical

timing belt

Fenner® Classical Timing Belts are the original square toothed belts. In conjunction with their associated pulleys Classical belts provide an economic solution for light drive applications.

- Wide range of belts and Taper Lock™ pulleys
- Built to ISO standards - interchangeable world-wide
- Efficient and economical

HTD

high torque drive belt

Fenner® HTD timing belts are the first generation of metric 'curvilinear' tooth form synchronous belts for 'High Torque Drives'. With their associated Taper Lock™ pulleys, they form cost-effective drives for medium duty applications.

- All metric drive system - to ISO standards
- Curvilinear tooth form improves stress distribution for higher tooth strength
- More compact drive than Classical timing belt drives
- Full range of Taper Lock™ pulleys in 5, 8 & 14mm pitch

Torque Drive Plus 3

premium belt

The state of the art Fenner® Torque Drive Plus 3 (TDP3) works with standard HTD pulleys to provide the ultimate combination of power capacity, low noise and high accuracy in a belt drive.

- The highest power rating in the range
- Enhanced compounding and glassfibre cord excel in highly dynamic applications
- Ultra compact and cost effective
- Polyamide facing layer reduces noise and extends life
- Quiet operation, even at high speeds
- Replaces HTD belts to extend life and increase load capability

Quattro Plus premium CRE belt

This CRE belt transmits up to 4 times the power of conventional V belts. The increase in cross sectional rigidity provided by fibre-reinforced polychloroprene contributes significantly to the performance advantages.

- Ideal problem solving belt
- 4x power transmission
- 'One Shot' tensioning - no matching necessary
- Meets industry standards for static conductivity and non-ignition properties
- High efficiency for low running costs

PowerTwist Plus link belting

The state of the art solution for emergency replacement and fitment into inaccessible locations.

- Made to any length in seconds
- Available in standard (Z, A, B, C), & double sections (AA, BB etc)
- Highly resistant to heat, water, oil, chemicals etc
- Use with Fenner® ISO standard Taper Lock™ pulleys, optionally with RMA pulleys
- Easy to install, rivet-less construction, no tools necessary
- Standard or optional soft back, for conveying applications



Concord banded belt

Ideal for problematic drives. The advantages of Fenner wedge belts are combined with a neoprene/fabric band to form a single belt.

Solves problems due to;

- Vibrations
- Large centre distance
- Vertical shafts
- Can be supplied to suit either Fenner® ISO standard Taper Lock™ pulleys, or RMA standard pulleys.



THE COMPLETE RANGE - Sections and pitches (dims in mm)

FRICITION DRIVES

Classic V-belt		Width	Depth
Z		10	6
A		13	8
B		17	11
C		22	14
D		32	20

Power Plus

SPZ		10	8
SPA		13	10
SPB		16	13
SPC		22	18
8V/Delta		25	23

CRE Plus/Quattro Plus

XPZ/QXPZ		10	8
XPA/QXPA		13	10
XPB/QXPB		16	13
QXPC		22	18

SYNCHRONOUS DRIVES

	Pitch	Total Height	Tooth Height	
HTD and TDP3 (MXP)				
5M		5	3.80	2.06
8M/MXP		8	5.60	3.40
14M/MXP		14	10.00	6.00

Torque Drive Plus 3 is only available in 8 & 14mm pitches

Classical Timing

XL		5.1 (1/5")	2.30	1.27
L		9.5 (3/8")	3.50	1.91
H		12.7 (1/2")	4.00	2.29
XH		22.2 (7/8")	11.40	6.35

FRICITION

SYNCHRONOUS

Selection, Installation and Maintenance



Fenner® power transmission product distributors have accumulated a vast wealth of experience in the application of belt drives. This is available to help customers achieve the most cost effective solutions for drive and conveying applications.

Also available:

- Fenner® Drive Design and Maintenance Manual
- Fenner® Select for wedge belt and synchronous belt drives - software based belt selection tool
- Belt tension indicator to ensure optimum set-up of any belt drive
- Groove gauge set to check pulley groove sections for size and wear
- Drive design, installation and maintenance training
- Advice on energy efficiency and use in hazardous areas



Taper Lock™ Pulleys

A comprehensive range of pulleys for all types of belt drive, using Taper Lock™ shaft fixing system for the ultimate versatility.

- ISO 'Dual Groove' pulleys for V, wedge and link belts \varnothing huge range
- Complete range of synchronous Taper Lock™ pulleys
- Taper Lock™ system for quick and easy fitment and removal
- Manufactured to ISO standards
- Balanced to G 6.3 for reduced vibration when used with Taper Lock™ bush
- Manufactured to exacting tolerances from fine grain GG25 grey Iron

Bi-loc™ pulleys and bushes, and variable pitch pulleys also available

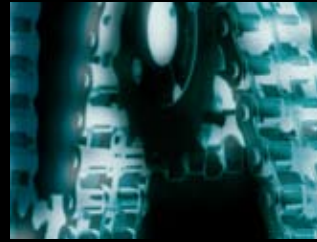
PULLEYS



FRICTION BELT DRIVES



COUPLINGS



CHAINS AND SPROCKETS



SYNCHRONOUS BELT DRIVES



GEARED DRIVES



SHAFT FIXINGS

Fenner[®]
THE MARK OF ENGINEERING EXCELLENCE

Authorised Distributor