



The PowerMax Advantage4
Technical Data
Material6
Bearings & Bearing Life 6
V-Belt Idlers7
Single Flange Idlers7
Flat Belt Idlers
Round Belt Idlers9
Cable Pulleys9
Sprockets10
Carriage Rollers
Mounting Adapters
DriveN Pulleys12
T-Max <sup>™</sup> Tensioners13
Custom Solutions14
Custom Product Applications 15



### **Composite Idlers & Sprockets**

Fenner Drives is the industry leader in composite products for industrial power transmission and material handling applications. The PowerMax<sup>™</sup> line of idler pulleys and sprockets offer superior composite design for years of successful service. PowerMax Idler Pulleys and Sprockets are available in a wide range of sizes for flat, round and V-belts and industry standard pitch chains. They are perfect for use as high-speed idlers on conveyors, packaging equipment, lawn and garden equipment, floor cleaning machines and in many other power transmission applications. The use of high-strength glass-reinforced nylon makes our pulleys and sprockets ideal for washdown applications and corrosive environments (special bearings available for harsh environments — consult factory).

High quality materials are used in our products to ensure years of service even in the toughest surroundings. Fenner Drives also has in-house engineering to help you design a custom idler pulley or sprocket for your application. Our modular tooling systems allow us to build tools that fit your budget and your production lead time requirements.

> Combine PowerMax Composite Idlers and Sprockets with our T-Max<sup>™</sup> automatic linear and rotary tensioners for an "off the shelf" tensioning solution.

> > Technical Help and Ordering I-800-243-3374 I-717-665-2421 www.fennerdrives.com info@fennerdrives.com



# The PowerMax Advantage...



4

- Molded of premium quality high-strength glass-reinforced nylon
- Increased cable or belt life vs. steel or cast iron
- Precision sealed bearings are greased for life never need relubrication





- Ultra smooth belt groove surface for quiet operation
- Corrosion resistant perfect for washdown applications (stainless steel bearings are available in many sizes for severe applications)
- Pre-installed mounting adapters convert bearings to standard shaft/bolt sizes





- State-of-the-art precision molding assures consistent quality parts
- Designed using Finite Element Analysis (FEA) to ensure superior product performance
- Stringent product testing and quality checks ensure that you only get the best products for years of dependable service

- Lighter-weight composite design means less energy for start up and running
- All catalog items are in stock for immediate shipment
- Available in a wide range of sizes for flat, round and V-belts
- Special sizes are easy with Fenner's Modular Mold System
- Over 20 years of experience in composite part designs

# **Engineering Data**

#### **About Our Material**

Fenner Drives uses only premium quality engineering composites, which ensure the highest level of performance and consistent strength. Our standard material is 33% glass reinforced nylon 6/6. The combination of high strength, temperature resistance and abrasion resistance makes nylon a versatile engineering thermoplastic.

MATERIAL PROPERTIES — 33% G Property	LASS-REINFORCE ASTM Code	ED NYLON 6/6, dry as molded Value
Tensile Strength at Break	D638	20,000 psi
Flexural Modulus	D790	1,300,000 psi
Heat Deflection Temp @ 264 psi	D648	480°F (249°C)
Continuous Service Temp. (Min. – Max.)	-	32° – 225°F (0° – 107°C)
Izod Impact Strength (notched 1/8")	D256	1.3 – 1.8 ftlb/in. of notch
Water Absorption (24 hour immersion)	D570	0.7%

Note: Data listed was generated using molded specimens tested under standard conditions. Many of the mechanical properties can be influenced by processing conditions, environmental factors and the application of stress. Therefore, this data characterizes typical production material, and should not be used either to establish specification limits or alone as the basis for engineering design.

#### **About Our Bearings**

Almost all PowerMax<sup>™</sup> Pulleys use precision 6203-2RS chromealloy steel radial ball bearings (exceptions are noted). These bearings meet all ABEC-1 standards. Our bearings utilize two rubber wiping seals to keep the grease in and contaminants out. See chart for standard load ratings.

BEARING P	ROP	ERTIES	;						
Туре: 6203-21	RS								
Seals: Rubber	Wipi	ng							
Fit: ABEC-I	"C4"	Internal	Clearan	ce					
Lubrication: C	Chevro	on SRI #	<sup>∉</sup> 2 or eq	uivalent (	30% ± 5	% Fill)			
Service Tempe	eratur	e: -20° -	– 350°F	(-30° – I	80°C)				
Basic Dynamic	c Load	1: 1660	lbs. (738	4N)			)		
6203 RADI	AL L	OAD R	ATINGS	5					
Speed (RPM)	33	100	200	300	500	1000	1500	1800	2500
Load (Ibs) I	660	1150	915	795	670	535	465	440	395
Load (N) 7	384	5115	4070	3536	2980	2380	2068	1957	1757

Load Ratings based on 500 HR minimum L<sub>10</sub> life.

3600

350

1557

5000

310

1379

#### **Bearing Life**

How long a bearing will last in an application depends on two variables: first, the bearing's physical properties (material, design, method of manufacture); and second, the conditions of operation (load, speed, temperature, lubrication). Although it is not possible to predict the exact life of a bearing, the designer can calculate the " $L_{10}$  Life" of a bearing.  $L_{10}$ is the life, in hours or revolutions, that 90% of a group of bearings will complete or exceed. The equations for calculating  $L_{10}$  life are:

• Revolutions:  $L_{10} = \left(\frac{C}{P}\right)^3 x \ 106$ 

• Hours: 
$$L_{10} = \left(\frac{C}{P}\right)^3 x \frac{16667}{N}$$

- Where:
- $L_{10}$  = Rating Life
- C = Basic Dynamic Capacity
- P = Radial Load in lbs.
- N = Speed in RPM

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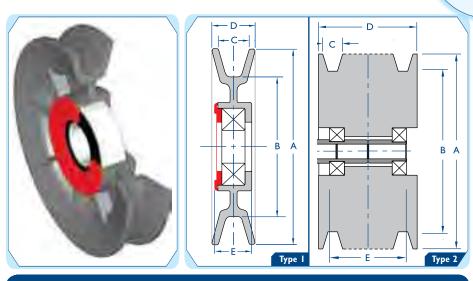
#### **V-Belt Idlers**

PowerMax<sup>™</sup> V-Belt Idlers are designed for strength and durability. For use with standard A and B section belts in a variety of industrial applications. The use of radial supporting ribs provides additional belt support and prevents groove deformation. Ideal for use with Fenner Drives Rotary Tensioners. Mounting adapters are available to facilitate easy installation (see page 11).

#### NOTES:

Pulley diameters can be machined down below the pitch line of belt for material handling applications.

† Insertion molded bearing.

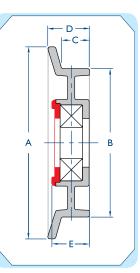


Part Number	Туре	Grooves	A	DIN B	MENSIO C	NS D	E	Belt Size	Bearing Type	Bore Size
VA3001	I	I	3.00	2.00	.50	.70	.76	А	6203-2RS	I7 mm
VA3002	I	I	3.10	1.84	.63	.78	.78	В	6203-2RS	I7 mm
VA4001	Ι	Ι	4.00	3.00	.50	.70	.78	А	6203-2RS	I7 mm
VA4002	Ι	Ι	4.00	2.84	.64	.86	.76	В	6203-2RS	I7 mm
VA5001	Ι	Ι	5.04	3.84	.65	.80	.78	В	6203-2RS	I7 mm
VA6001	I	I	6.00	5.13	.50	.72	.76	А	6203-2RS	I7 mm
VA6250†	I	Ι	6.25	5.00	.62	.95	.67	A/B	6203-2RS	I7 mm
VA7501	Ι	Ι	7.50	6.60	.54	.72	.71	А	6203-2RS	I7 mm
V2B6280	2	2	6.28	5.18	.64	1.72	1.72	B/5V	6203-2RS	.510/.520
V3B6280	2	3	6.28	5.18	.64	2.44	2.44	B/5V	6203-2RS	.510/.520
V4B6280	2	4	6.28	5.18	.64	3.16	3.16	B/5V	6203-2RS	.510/.520

#### **Single Flange Idlers**

PowerMax Single Flange Idlers are designed specifically for use on conveyor corners but can be used for a variety of applications. Designed for use with B-Section V-Belts. Mounting adapters are available to facilitate easy installation (see page 11).





Part Number	A	DI B	MENSION C	IS D	E	Belt Size	Bearing Type	Bore Size
VA3600	3.60	2.84	.59	.84	.79	В	6203-2RS	I7 mm
VA4130	4.13	3.23	.59	.86	.78	В	6203-2RS	I7 mm

#### **Flat Belt Idlers**

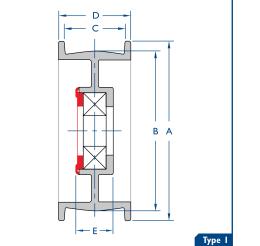
PowerMax<sup>TM</sup> Flat Belt Idlers are available for a wide range of standard belt sizes. Also suitable for use as back side idlers on V-belts. Our molded-in crown helps center the belt and prevent rubbing against flanges. Mounting adapters are available to facilitate easy installation (see page 11).

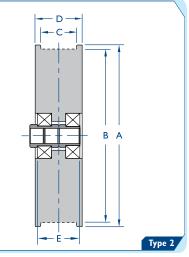


#### NOTES:

- Flat belt pulleys are available without flanges or crown. Contact factory for details.
- \* These items are standard without flanges.
- † Insertion molded bearing.
- ‡ FX 0001 and FX 0002 use a special 1" bore bearing with extended inner-race.
- § This item has two 6203-2RS bearings. Please consult your Inside Sales Specialist when ordering with adapters.

All dimensions are for reference only.





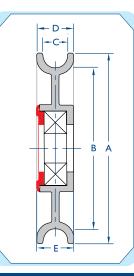
Part Number	Туре	Crown	A	DI B	MENSIO C	NS D	E	Belt Size	Bearing Type	Bore Size
FA2001†	Ι	YES	2.07	1.88	1.37	1.54	.47	<sup>3</sup> /8"	6203-2RS	I7 mm
FA2002†	Ι	YES	2.35	1.99	.98	1.15	.47	7/8"	6203-2RS	I7 mm
FA2003	Ι	NO	2.76	1.94	.82	1.15	.75	<sup>13</sup> /16"	6203-2RS	I7 mm
FA2009*†	Ι	NO	N/A	2.00	1.00	N/A	.47	۱"	6203-2RS	I7 mm
FA2010*†	Ι	NO	N/A	1.98	.75	N/A	.47	3/4"	6203-2RS	I7 mm
FA2501†	Ι	NO	2.48	1.97	1.55	1.85	.72	l <sup>1</sup> /2"	6203-2RS	I7 mm
FA2700*†	Ι	NO	N/A	2.71	1.05	N/A	.67	1"	6203-2RS	I7 mm
FA2750†	Ι	YES	2.75	1.97	1.09	1.40	.67	۱"	6203-2RS	I7 mm
FA2751	Ι	YES	2.75	2.52	1.00	1.22	.80	1"	6203-2RS	I7 mm
FA2900*	Ι	YES	N/A	2.91	1.22	N/A	.76	l <sup> </sup> /8"	6203-2RS	I7 mm
FA3002	Ι	YES	3.00	2.50	1.02	1.31	.76	١"	6203-2RS	I7 mm
FA3003*	Ι	NO	N/A	2.96	1.09	N/A	.76	1"	6203-2RS	I7 mm
FA3250*†	Ι	NO	N/A	3.23	1.01	N/A	.67	۱"	6203-2RS	I7 mm
FA3251†	Ι	YES	3.24	2.97	1.04	1.20	.67	۱"	6203-2RS	I7 mm
FA3301	Ι	YES	3.38	3.00	1.38	1.68	.78	<sup> </sup> /4"	6203-2RS	I7 mm
FA3501	Ι	YES	3.50	3.00	.77	1.09	.76	<sup>3</sup> /4"	6203-2RS	I7 mm
FA3502	Ι	YES	3.50	3.00	1.00	1.22	.76	۱"	6203-2RS	I7 mm
FA3504	Ι	YES	3.48	2.98	.69	.90	.76	11/16"	6203-2RS	I7 mm
FA3750†	Ι	YES	3.75	2.96	1.09	1.38	.67	Ι"	6203-2RS	I7 mm
FA3751†	Ι	YES	3.80	3.51	1.03	1.24	.67	۱"	6203-2RS	I7 mm
FA4501	Ι	YES	4.50	4.00	1.09	1.39	.76	1"	6203-2RS	I7 mm
FA4502*	Ι	NO	N/A	4.50	1.21	N/A	.82	1 <sup>3</sup> /16"	6203-2RS	I7 mm
FA4750†	Ι	YES	4.75	4.00	1.09	1.40	.67	۱"	6203-2RS	I7 mm
FA5501†	Ι	YES	5.56	5.03	1.02	1.29	.72	۱"	6203-2RS	I7 mm
FA5504†§	Ι	NO	5.72	5.40	1.08	1.37	1.25	۱"	6203-2RS	I7 mm
FX0001‡	Ι	YES	2.75	2.37	1.07	1.39	N/A	۱"	6205-2RS	Ι"
FX0002*‡	Ι	YES	N/A	2.33	1.39	N/A	N/A	<sup>3</sup> /8"	6205-2RS	Ι"
F1B6280	2	NO	6.28	6.00	1.23	1.63	1.63	۱"	6203-2RS	.510/.520
F2B6280	2	NO	6.28	6.00	2.10	2.50	2.50	21/4"	6203-2RS	.510/.520
F3B6280	2	NO	6.28	6.00	2.91	3.31	3.31	3"	6203-2RS	.510/.520
F4B6280	2	NO	6.28	6.00	3.85	4.25	4.25	4"	6203-2RS	.510/.520

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#### **Round Belt Idlers**

PowerMax<sup>™</sup> Round Belt Idlers are designed for use with round belts, ropes or cables. The deep uninterrupted groove provides continuous support and eliminates any binding or wedging problems found with steel or cast iron pulleys. Small series pulleys use a special 6902-2RS bearing and are ideal for tight-fit applications. Mounting adapters are available to facilitate easy installation (see page 11).





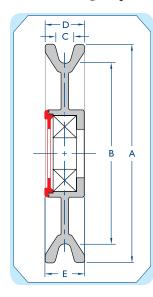
Part			MENSIO				Maximum	Bearing	Bore
Number	A	В	С	D	E	Radius	Cable Size	Туре	Size
RA3001	3.05	2.45	.40	.61	.76	.19	<sup>3</sup> /8"	6203-2RS	I7 mm
RA3002	3.05	2.45	.42	.61	.62	.21	13/ <sub>32</sub> "	6203-2RS	I7 mm
RA3501	3.50	2.75	.53	.76	.76	.26	<sup>1</sup> /2"	6203-2RS	I7 mm
RA3502	3.50	2.75	.44	.76	.76	.19	<sup>3</sup> /8"	6203-2RS	I7 mm
RA4101	4.12	3.50	.53	.68	.72	.26	<sup>1</sup> /2"	6203-2RS	I7 mm
RA4801	4.80	4.00	.53	1.00	.77	.28	<sup>1</sup> /2"	6203-2RS	I7 mm
RA4802	4.80	4.00	.75	1.06	.77	.36	11/16"	6203-2RS	I7 mm
RA5502†	5.50	4.62	.38	.56	.70	.20	<sup>3</sup> /8"	6203-2RS	I7 mm
SMALL SEI	RIES								
RA1850†	1.84	1.39	.44	.62	.48	.16	<sup>5</sup> /16"	6902-2RS	I5 mm
RA2540	2.54	1.90	.44	.63	.63	.16	<sup>5</sup> /16"	6902-2RS	I5 mm

#### NOTES:

Small series pulleys cannot accept mounting adapters. Contact factory for special options.

#### **Cable Pulleys**

Molded in our premium glass-reinforced nylon, PowerMax Pulleys can be used with both coated and uncoated cable and will provide a substantial increase in cable life over steel or aluminum pulleys. Our cable pulleys feature a non-ribbed, solid web construction for strength and appearance and are perfect for a variety of cable applications. Mounting adapters are available to facilitate easy installation (see page 11).



Part	A	DI B	MENSIO		E	Maximum	Bore
Number	A	D	С	D	-	Cable Size	Size
RA2701	2.75	2.43	.23	.82	.82	<sup>5</sup> / <sub>32</sub> "	I7 mm
RA3503†	3.55	2.73	.39	.80	.77	1/4"	I7 mm
RA3504	3.50	2.81	.31	.65	.77	7/ <sub>32</sub> "	I7 mm
RA4501†	4.46	3.74	.38	.86	.77	1/4"	I7 mm
RA4502†	4.46	3.74	.38	.86	.77	<sup>3</sup> /16"	I7 mm
RA5001	5.00	4.31	.31	.65	.73	<sup>3</sup> /16"	I7 mm
RA5501†	5.50	4.86	.22	.53	.60	<sup>5</sup> / <sub>32</sub> "	I7 mm
RA6001	6.00	5.20	.40	.80	.80	!/4"	I7 mm

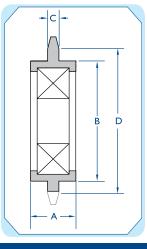
#### NOTES:

† Insertion molded bearing. All dimensions are for reference only. 9

#### **Sprockets**

- Wear resistant glass-reinforced nylon
- Insertion molded ABEC-1 high precision bearings
- Lightweight and quiet
- Corrosion resistant
- Lubrication not required
- Mounting adapters are available to facilitate easy installation (see page 11).
- Ideal for use with T-Max<sup>TM</sup> Linear and Rotary Tensioners





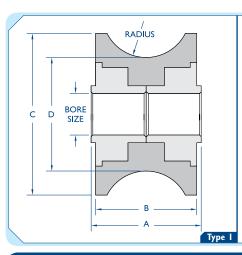
Part Number	Chain #	# Teeth	Nominal O.D. (in.)	Pitch Diameter	DI A	MENSIOI B	NS C	Bearing Type	Bore Size
CS3502	35	19	2.50	2.28	.67	1.78	.164	6203-2RS	I7 mm
CS4002	40	17	3.00	2.72	.67	1.78	.279	6203-2RS	I7 mm
CS4003	40	17	3.00	2.72	.67	1.78	.279	6203-2RS-10	<sup>5</sup> /8"
CS4006	40	17	3.00	2.72	.67	1.78	.279	6203-2RS-12	3/4"
CS5002	50	15	3.25	3.01	.67	1.78	.343	6203-2RS	I7 mm
CS5004	50	15	3.25	3.01	.67	1.78	.343	6203-2RS-10	<sup>5</sup> /8"
CS5005	50	15	3.25	3.01	.67	1.78	.343	6203-2RS-12	3/4"
CS6002	60	13	3.50	3.14	.67	1.78	.449	6203-2RS	I7 mm
CS6003	60	13	3.50	3.14	.67	1.78	.449	6203-2RS-10	5/8"
CS6004	60	13	3.50	3.14	.67	1.78	.449	6203-2RS-12	3/4"
CS8002	80	12	4.40	3.86	.67	1.78	.58	6203-2RS	I7 mm
CS8003	80	12	4.40	3.86	.67	1.78	.58	6203-2RS-10	5/8"
CS8004	80	12	4.40	3.86	.67	1.78	.58	6203-2RS-12	3/4"

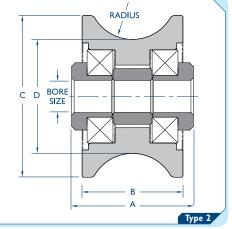
#### **Carriage Rollers**

- Designed for higher loads in low RPM applications
- Precision and semi-precision ball bearings for varying load requirements
- Designed to roll smoothly on round rails
- Molded nylon construction for quiet operation
- Internal spacer allows full tightening without binding (RX0219 only)

When installing RA 2001, RA 2002, or RA 2004, the inner race of the bearings must be free to move in the mounting arrangement – they must not be clamped tight. For more information on mounting carriage rollers, please contact our applications engineering group.

NOTE: All dimensions are for reference only.





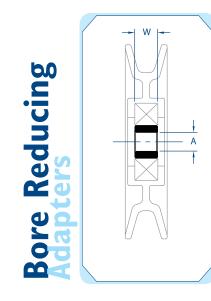
Part Number	Туре	A	DIMEN B	ISIONS C	D	Radius Inches	Bore Size	
RA2001	I	1.36	1.20	1.95	1.37	.53	3/8"	
RA2002	I	1.36	1.20	1.95	1.37	.53	1/2"	
RA2004	I	1.48	1.20	1.95	1.37	.53	1/2"	
RX0219	2	1.48	1.20	1.95	1.38	.53	3/8"	

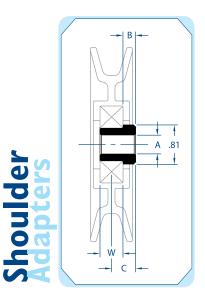
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## **Mounting Adapters**

Versatile mounting adapters simplify the job of assembly and help to reduce overall cost. Made of high quality sintered iron materials, they are press-fitted in place at the factory so that you only need to handle one component — the "finished" belt idler assembly. The three standard types are available in a choice of widths and bore sizes to meet most mounting requirements. However, our flexible tooling approach allows specials to be produced quickly and economically, frequently with little or no tooling charge.





Part	DIMEN	SIONS
Number	А	W
RB0001	.385 / .395	.472
RB0002	.510 / .520	.472
RB0071	.474 / .486	.472

Part Number	A	DIMENS A B				
CB0001	.385 / .395	.26	.472	.50		
CB0002	.385 / .395	.51	.472	.75		
CB0003	.385 / .395	.76	.472	1.00		
CB0004	.510 / .520	.26	.472	.50		
CB0005	.510 / .520	.51	.472	.75		
CB0006	.510 / .520	.76	.472	1.00		
CB0013	.385 / .395	.08	.472	.32		
CB0015	.314 / .324	.08	.472	.32		
CB0016	.385 / .395	.17	.472	.41		
CB0020	.314 / .324	.10	.472	.34		
CB0023	.394 / .399	.64	.472	.87		
CB0036	.385 / .395	.70	.472	.94		
CB0058	.385 / .395	.33	.472	.57		
CB0100	.397 / .407	.26	.472	.50		

Part Number	A	DIME B	c		
SB0001	.385 / .395	.26	.472	.50	
SB0002	.385 / .395	.51	.472	.75	
SB0003	.385 / .395	.76	.472	1.00	
SB0004	.510 / .520	.26	.472	.50	
SB0005	.510 / .520	.51	.472	.75	
SB0006	.510 / .520	.76	.472	1.00	
SB0013	.385 / .395	.15	.472	.38	
SB0016	.385 / .395	.11	.472	.35	
SB0017	.385 / .395	.48	.472	.72	
SB0018	.385 / .395	.40	.472	.64	
SB0019	.385 / .395	.55	.472	.79	
SB0020	.385 / .395	.59	.472	.83	
SB0032	.385 / .395	.56	.472	.80	
SB0033	.385 / .395	.95	.472	1.19	
SB0090	.255 / .265	.31	.472	.55	

#### NOTES:

All dimensions are for reference only. Consult factory for metric availability.

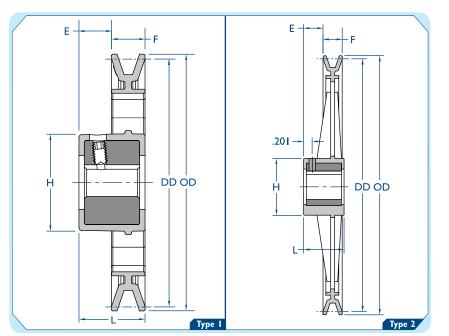
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# **DriveN Pulleys**

The latest innovation in composite power transmission components from Fenner Drives.

- For use with A/4L section V-belts
- Directly interchangeable with industry standard "AK" type pulleys
- Molded premium quality glass reinforced nylon material
- Sintered metal drive hub insertion molded for high strength
- Corrosion resistant and lightweight
- State-of-the-art precision molding assures part consistency
- Highly cost effective
- Stock Bore Sizes: 5/8", 3/4", 7/8", 1"

Shaft Size	Keyseat
<sup>5</sup> /8", <sup>3</sup> /4", <sup>7</sup> /8"	<sup>3</sup> / <sub>16</sub> " x <sup>3</sup> / <sub>32</sub> "
Ι"	<sup>1</sup> /4" × <sup>1</sup> /8"



Part Number	Туре	E	DIMEI F	NSIONS H	L	Belt Size	DIAM Outside	ETER Datum	Number Spokes	Spoke Style
AFD44	I	.73	.75	2.15	1.48	А	4.25	4.00	4	Solid
AFD49	I	.73	.75	2.15	1.48	Α	4.75	4.50	4	I-Beam
AFD59	I	.73	.75	2.15	1.48	Α	5.75	5.50	4	I-Beam
AFD74	I	.73	.75	2.15	1.48	Α	7.25	7.00	4	I-Beam
AFD84	2	.75	.75	2.22	1.60	А	8.25	8.00	6	Cross
AFD94	2	.75	.75	2.22	1.60	А	9.25	9.00	6	Cross
AFD104	2	.75	.75	2.22	1.60	Α	10.25	10.00	6	Cross
AFD112	2	.75	.75	2.22	1.60	А	10.98	10.78	6	Cross
AFD124	2	.75	.75	2.22	1.60	Α	12.25	12.00	6	I-Beam



#### $8\,0\,0\,.\,2\,4\,3\,.\,3\,3\,7\,4$

# Belt & Chain Tensioners

# Automatically take up the slack.



As more and more customers demand maintenance-free systems, T-Max Belt and Chain Tensioners from Fenner Drives can provide an optimum solution to "hands off" field performance.

- Rugged die-cast aluminum housings
- Constructed with alloy steel springs
- Stainless components available for washdown applications
- Sintered bronze, oil-impregnated bearings
- No exposed rubber elements to stretch and cold-flow
- Single bolt mounting and graduated scale tension adjustment









Since 1983, Fenner Drives has been developing innovative product design solutions for the Original Equipment Manufacturer (OEM). Our customer-driven approach brings together the latest in product design and manufacturing technology with years of experience as the leading producer of composite power transmission components. Once we understand your specific application, our engineers develop a "conceptual" design for your review. This design is then optimized using the latest in engineering CAD software. Once qualified, state-of-the-art computer aided manufacturing processes are used to produce both molding tools and finished parts accurately and economically in-house. Our corrosion resistant, lightweight composite designs are not only developed to embody high strength and long service life, but also to reduce component costs in comparison to equivalent metallic parts.

# Elevation

#### Application Belt driven linear actuator to adjust treadmill elevation

**Problem** Existing elevation can required 11 different components requiring 25 machining and fabrication operations

**Solution** Fenner Drives re-engineered the elevation can to four components and supplied a complete assembly ready for installation. Fenner specified a Teflon®-filled acetyl material for the nut pulley, which eliminated the periodic field lubrication required with the original design.

# Application Spindle assembly for floor polisher aring Assembly Problem Current machined aluminum flanged bearing housing was expensive to produce and required assembly

**Solution** Fenner Drives supplies the floor equipment manufacturer a complete assembly with a shaft and bearings installed. Fenner's composite design requires no machining and incorporates integral mounting nuts for easy installation. Using an engineered 43% glass nylon provided the necessary strength requirements to equal aluminum.



#### Application Sorter shoes for high speed sortation conveyors.

**Problem** Design a cost-effective sorter shoe with a low wear/friction slide surface and impact resistant bumpers

**Solution** Fenner Drives is the industry leader in sorter shoe design and manufacture. By utilizing new lubricated materials and state of the art insertion molding techniques, we have designed superior components that can withstand the daily abuse of a sorting conveyor. Soft bumpers provide the impact resistance to minimize product damage. Our latest design incorporates an insertion molded I-beam for added strength. This also eliminates hardware required in a two-piece design.





# **Count on Fenner Drives.** We've got the right product for your application.















**Trantorque**<sup>®</sup> Keyless Bushings

KEYLESS LOCKING ASSEMBLIES



Fenner Drives is a proven leader in the design and manufacture of problem-solving power transmission and motion transfer components. Recognized widely for our expertise and innovation in manufacturing technology, we consistently blend reliability, quality and value in our products. Our ISO 9001:2000 certified production facilities are located in Manheim, PA; Wilmington, NC; and Leeds, UK. As part of our commitment to provide unsurpassed technical support and service, we maintain extensive engineering, development and testing facilities.



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