

PRODUCT CATALOG



BRYANT
Products, Inc.

ABOUT BRYANT

Bryant Products houses a group of creative, knowledgeable and talented people with their eyes set on building better solutions for the conveying industry. As a customer-driven company with a passion for problem solving, we turn your problems into an opportunity to



improve the industry. From take-ups with our patented Telescoper® technology to our Tuffcote® Durathane coating, we engineer and produce the products our competitors copy. Built with precision, creativity, durability and expertise, we take the best conveyor products in the business and make them better. From the beginning, our company has been asked to solve the challenges the industry faces, such as excessive run-out, poor quality, long lead times and indifferent service. We met that challenge and exceeded expectations, constantly taking the best and making it better.

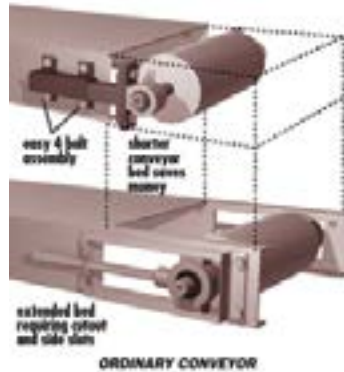


Insist on genuine Telescopers® brand take-ups from Bryant Products – The Best in the Industry

Telescopers® are tougher, stronger, easier to install, adjust and maintain and are backed by an unmatched 5-year no freeze up warranty.

The Telescopers® offers you these advantages:

- Guarantees adjustment in contaminated environments for 5 years
- Simplifies change out of bearings
- Uses standard 2-bolt pillow block bearing on pulley shaft for easy assembly even inside vulcanized belt loop
- Easy 4-bolt assembly to channel bed
- Modular design is readily adapted to special application needs
- Off the shelf availability for same day shipment on standard models
- All Telescopers® models are available in both mild steel and type 304 stainless steel.
- Telescopers® take-ups have set the standard for longevity, utility and adaptability, and have satisfied a large range of applications in unit handling and bulk materials systems.



How can we guarantee the Telescopers® for 5 years when the “other guys” only give a 1 year warranty, if at all?

- Our product is powder coated and built with precision tubing to ensure a tighter tube to tube fit
- Our adjuster rods are hand treated with an aircraft grade anti-sieze compound and are mated to a unique self-aligning mount eliminating binding during extension
- We invent and innovate and the “other guys” copy and follow. If imitation truly is the sincerest form of flattery, we do make a fabulous product!

Telescopers® take-ups are available in sizes that can produce over 25,000 pounds of thrust in strokes up to 6 feet. We offer units with conventional screw drives, automatic take-ups with internal compression springs, and hydraulically or pneumatically actuated units.

Telescopers® Mounting and Bearing Plate Options



TOP MOUNT



TAPPED BASE



EXTENDED SLIDER



STUD MOUNT



MALE THREAD



MOTORIZED PULLEY



Telescoper® Performance Options



HYDRAULIC

- Rigid precision tube-in-tube construction
- The cylinder is enclosed in the telescoping tubes and protected from the elements
- 1000 hour salt spray resistance on powder coated mild steel units
- The ideal Telescoper® for applications where larger bearings, belts, and chains are used
- A perfect choice when extreme and accurate tensions are required or when local adjustment is impossible or undesirable



AUTOMATIC

- Internal spring automatically compensates for belt or chain stretch and wear
- Maintains belt tension under varying thermal conditions
- Improves the accuracy of belt scale readings
- Allows for the ingestion of debris between the return run of the belt and the pulleys without damage to the belt or frame components
- Accurately determines the thrust on the tail pulley
- Ideal for food processing applications



QUICK RELEASE

- Pull action toggle clamp tensions or slackens conveyor belt
- The ideal Telescoper® when you must clean under your conveyor belt daily, repair your conveyor belt in a hurry or replace a conveyor chain that has jumped a tooth
- Available in stainless or low carbon steel
- Ideal for food processing applications



LINEAR ACTUATOR

- Pneumatic cylinder provides some spring in the takeups since the air compresses
- Provides automatic takeup which helps to maintain constant belt tension as the belt stretches
- Intended for more lightly loaded applications and offer a variety of diameters



FREESEAL®

- Positive seal system is completely impervious to infiltration by extreme weather and no contamination by particulates in the environment
- Requires no periodic maintenance
- Requires no regreasing
- Lifetime warranty against freeze-up

Don't see what you are looking for?

Additional mounting, bearing plate, and performance configurations are available.

We are available to discuss your specific needs and provide technical assistance.

How to Specify and Order

1. Select the Pillow Block you require for our application from the bearing manufacturer's catalog. Note the bearing bore
2. Locate your Bearing Bore Range (Column one in the Select a Series chart)
3. Review standard features and duty requirements to select appropriate "Tube Series"
4. Determine "Stroke" in inches
5. Select Material ("MS" for Mild Steel and "SS" for Stainless Steel)
6. Specify Body Mounting Method ("SF" is Standard Feet)
7. Specify Bearing Plate ("BP" is Bearing Plate)

Ex. 100-3-MS-SF-BP (Series-Stroke-Material-Body Mounting Method-Bearing Plate)

Select a Series Telescopertm

Standard Features and Load Rating

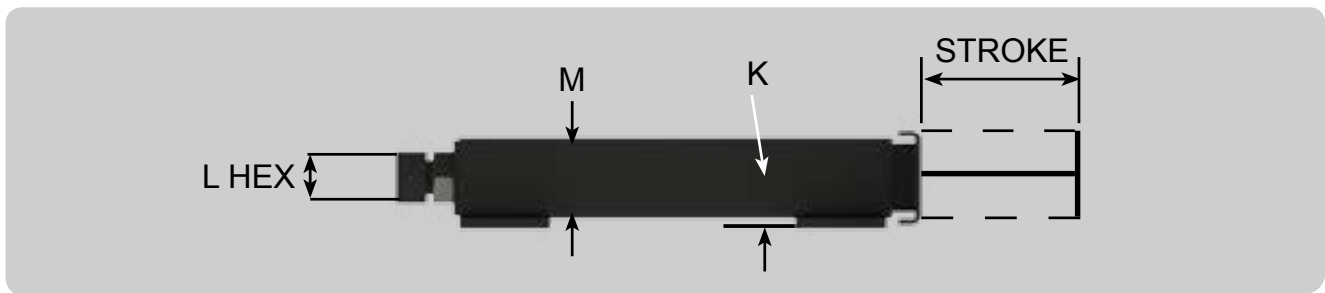
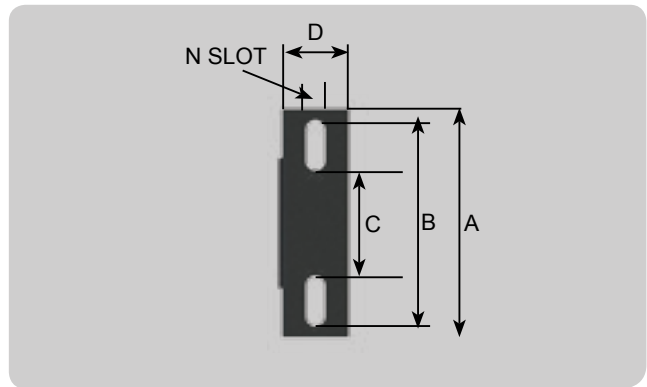
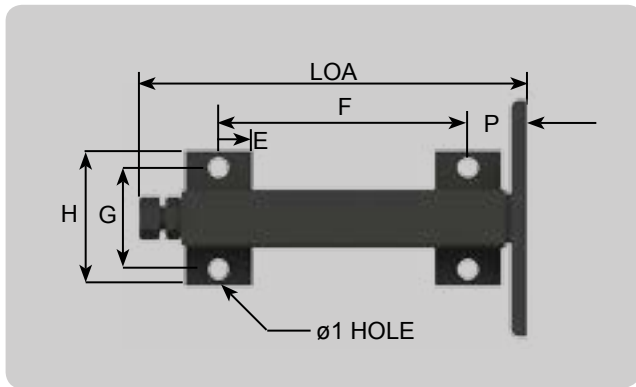
- **100 series** .625-11 UNC-2A adjusting rod Max holding force 700 pounds per Telescopertm 150 pounds max cantilevered load per Telescopertm
- **250 series** .750-10UNC-2A adjusting rod Max holding force 1500 pounds per Telescopertm 300 pounds max cantilevered load per Telescopertm
- **300/325 series** .875-9UNC-2A adjusting rod Max holding force 3000 pounds per Telescopertm 600 pounds max cantilevered load per Telescopertm
- **350 series** .875-6 ACME adjusting rod Max holding force 7000 pounds per Telescopertm 1000 pounds max cantilevered load per Telescopertm
- **400 series** 1.250-5 ACME adjusting rod Max holding force 15,000 pounds per Telescopertm 1500 pounds max cantilevered load per Telescopertm
- **500 series** 2.250-4 ACME adjusting rod Max holding force 75,000 pounds per Telescopertm 6000 pounds max cantilevered load per Telescopertm
- **500R series** Rectangular tube construction Engineered and built on special request

Bearing Bore	Standard Duty Bearings	Medium Duty Bearings	Heavy Duty Bearings
1/2 - 1	100		
1 1/16	250		
1 1/8	250		
1 3/16	250	250	
1 1/4	250	250	
1 5/16	250	250	
1 3/8	250	250	
1 7/16	250	250	350
1 1/2	250	350	350
1 9/16	250	350	350
1 5/8	250	350	350
1 11/16	250	350	350
1 3/4	250	350	350
1 15/16	300/325	350	350
2	300/325	350	350
2 3/16	300/325	350	400
2 1/4	300/325	350	400
2 7/16	300/325	350	400
2 1/2	300/325	350	400
2 11/16	300/325	400	400
2 3/4	300/325	400	400
2 15/16	300/325	400	400
3 - 3 3/16		400	400
3 7/16 - 3 1/2		400	500
3 15/16 - 10 1/2			500

Standard Telescope® Dimensions for Reference

Consult Website or Factory for Specific Dimensions, Part Models and Drawings

Series	Stroke	LOA	A	B	C	D	N	E	F	G	H	I	K	L	M	P	Weight ea lbs
100	3	6.88	5.25	4.31	2.94	1.50	.44	.75	3.56	2.63	3.69	.56	.88	.94	1.25	1.47	2.50
	6	10.38							7.06								3.50
	9	14.38							11.06								4.60
250	3	8.50	7.00	5.69	3.81	2.04	.56	1.00	4.38	3.00	4.00	.56	1.13	1.13	1.75	1.75	4.90
	6	11.50							7.38								5.80
	9	14.50							10.38								7.50
	12	17.50							13.38								9.10
300	6	11.13	10.00	8.69	5.56	2.84	.68	1.25	6.13	4.00	5.25	.68	1.50	1.31	2.50	2.13	11.40
	9	15.13							10.13								13.40
	12	19.13							14.13								16.50
	18	26.13							21.13								21.60
325	6	12.75	10.00	8.69	5.56	2.84	.68	1.25	7.13	4.00	5.25	.68	1.50	1.31	2.50	2.69	13.20
	9	15.75							10.13								16.90
	12	18.75							13.13								20.00
	18	24.75							19.13								26.00
350	9	19.00	10.00	8.69	5.56	3.00	.68	1.25	13.00	4.50	5.75	.68	1.75	1.44	3.00	2.50	24.60
	12	22.00							16.00								27.70
	18	28.00							22.00								34.70
	24	34.00							28.00								41.70
400	12	27.75	14.00	11.75	8.50	3.50	.88	1.75	20.00	5.50	7.50	.88	2.13	2.00	3.50	3.50	43.00
	18	33.75							26.00								54.00
	24	39.75							32.00								65.00
500	18	44.00	PER CUSTOMER SPECIFICATIONS					2.50	31.00	9.00	11.50	1.06	3.50	3.50	6.00	6.00	250.00
	24	50.00							37.00								275.00
	36	62.00							49.00								325.00



Tubing

We offer steel, galvanized steel, stainless steel, aluminum, and thermoplastic.

Bearings

There are a wide variety of bearings and bushings available for conveyor roller applications. Bryant stocks most commonly used bearings and has immediate access to a vast array of more application specific bearings.

- Precision
- Stamped
- Plastic
- Bushings
- CEMA mine duty
- Replaceable bearings

Why use a replaceable bearing in my CDLR and heavy duty rollers instead of the standard crimped construction?

- The retained bearing ensures bearings will stay in the rollers even upon impact or when subject to vibrations.
- The precision, sealed bearing runs smoother and longer than commercial grade bearings.
- The precision machined fit allows for removal of the bearing assembly for easy replacement instead of having to install a new roller.

Shaft

We offer hex and round axles. The round axles can be tapped on the ends and secured and locked to the frame with a bolt, milled flat on one side, or threaded.

Specialty Components

- Springs
- Seals
- Drive Grooves
- Sprockets
- Adapters
- Machined Washers
- Stamped Cup Adapters
- Thermoplastic Adapters
- TuffCote® urethane lagging



Torque Arms by Bryant

Simple, modular and readily available!

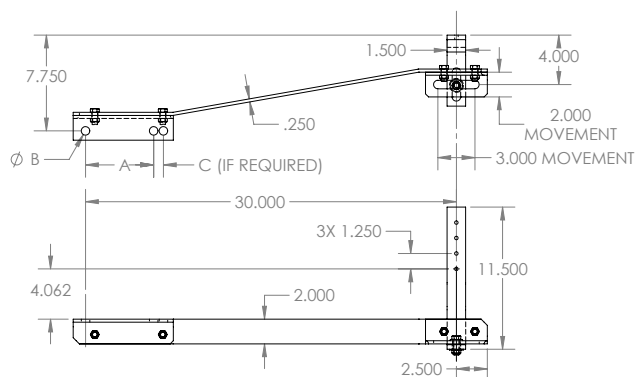
- Slotted mounting plate allows a variety of sizes and simplifies inventory needs
- Mounts available for all makes and sizes
- Fully adjustable to allow precise alignment of the reducer, motor, and device assuring increased life and less mechanical failure
- Available in stainless and powder coated carbon steel

Bryant Standard Torque Arms

Constructed of mild steel or stainless steel, whatever the environment requires. Special modifications available from the factory to fit requirements.



Mild and stainless steel construction,
customer to specify a, b, c dimensions



**Don't see what you
are looking for?**

Special modifications
are available.

*Bryant engineers are available
to discuss your specific needs and
provide technical assistance.*

PRODUCT OFFERING

Takeups

- Telescoper® brand Takeups
- Custom Fabricated Specialty take-ups

Conveyor Rollers

- 1-3/8" - 5" diameter
- Drive grooves
- Sprocketed - CDLR
- Carbon and stainless steel, aluminum, ABS

Tapered Rollers & Turn Pulleys

- AirForm® and Machined straight and trap crown
- TIR as low as .001"
- 1" - 12" diameter, 106" length

Conveyor Pulleys

- AirForm® and Machined straight and trap crown
- TIR as low as .001"
- 1" - 12" diameter, 106" length

Exclusive TuffCote® Lagging

- High quality urethane at rubber prices

Pulleys for general conveying, airport baggage, United Parcel Service, United Postal Service, Print and Web-Feed applications

Custom Fabricating

CNC Machining - Vertical and Horizontal Centers

PROCESSES, SERVICES, & CAPABILITIES

CNC Machining

- Turning capacity up to 3000 mm (118 in) in length
- Turning capacity up to 15 inches in diameter
- Turning capacity incorporates live toolings for extra precision and reduced set ups
- Keys and splines produced on lathe
- Milling capacity up to 1800 mm (72 in) in length
- Bar feed capacity up to 3.50 inches in diameter
- Hydraulic steady rest capability to 10 inches in diameter
- CNC sawing to 20 inch diameter
- Broaching - keyways

Welding

Mig

Automatic cylindrical welding to 10 inch diameter and 1800 mm (72 in) in length

Tig

Plasma cutting

Aluminum, alloy steels, and stainless steel

Other Services

Proprietary Airform® CNC metal spinning

- Tubing capacity (.250 wall) maximum
- 2000 mm (80 inches) length
- Up to 10 inches in diameter

Proprietary TuffCote® urethane coating of any substrate using CNC controls

Media blasting

Chrome plating

Zinc plating

Heat treating

Powder coatings

Straightening

Plasma cutting

Grinding

Metal forming

Material Offerings

Carbon steel

Stainless steel

Aluminum

Plastics

Steel alloy (4140, 1144, 8620, etc)

Brass/Copper alloys

Turned, ground, and polished stocks

Our takeups, rollers, pulleys, tapers, and industrial components have solved problems in the following industries:

- Material handling
- Airport baggage
- United Parcel Service
- United States Postal Service
- Industrial distribution
- Agriculture
- Print and web-feed applications
- Food processing and handling equipment
- Industrial brushes
- Fitness equipment
- Bag house and air purification
- Sports
- Aggregate and quarry
- Motorcycle and recreational vehicles
- Specialty coatings
- Recycling
- Entertainment
- Interior design