

## Information Required To Order A Roller

Roller Part No.: \_\_\_\_\_ (if known)

Between Frames Width: \_\_\_\_\_

Roller Diameter: \_\_\_\_\_

Wall Thickness: \_\_\_\_\_

Axle Size: \_\_\_\_\_ (hex or round)

Sprocket Size: \_\_\_\_\_ (if applicable)

Belt Dia.: 3/16 in. dia. \_\_\_\_\_ (for 1 3/8, 1.9, 2 & 2 1/2 in. dia. rollers)

1/4 in. dia. \_\_\_\_\_ (for 2 1/2 in. dia. rollers only)

Bearing:

Precision \_\_\_\_\_

Non-Precision \_\_\_\_\_

Open \_\_\_\_\_

Sealed \_\_\_\_\_

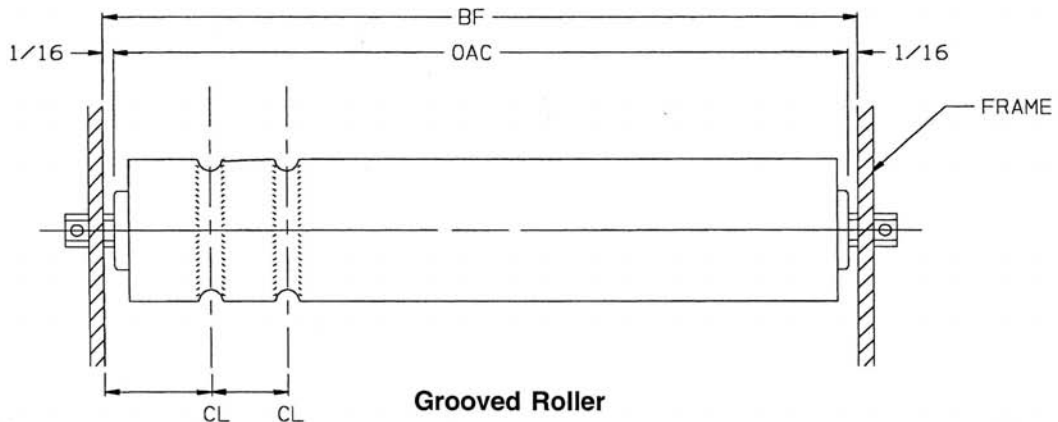
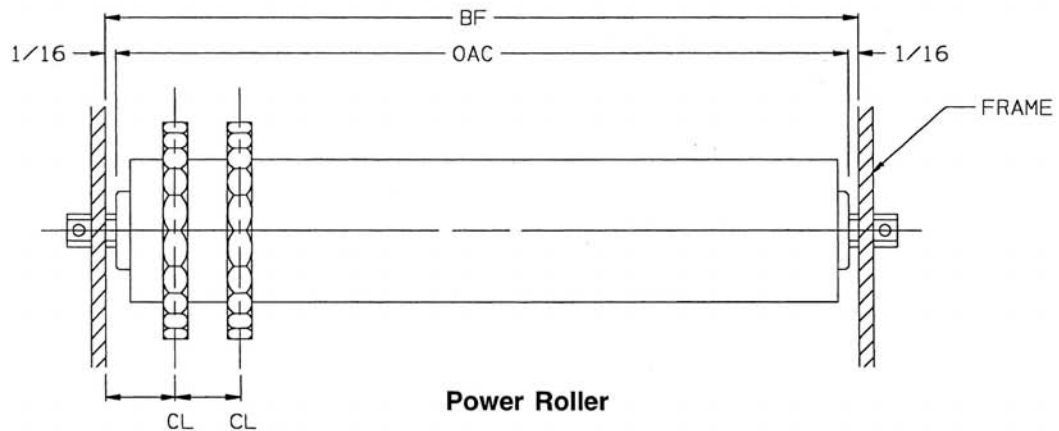
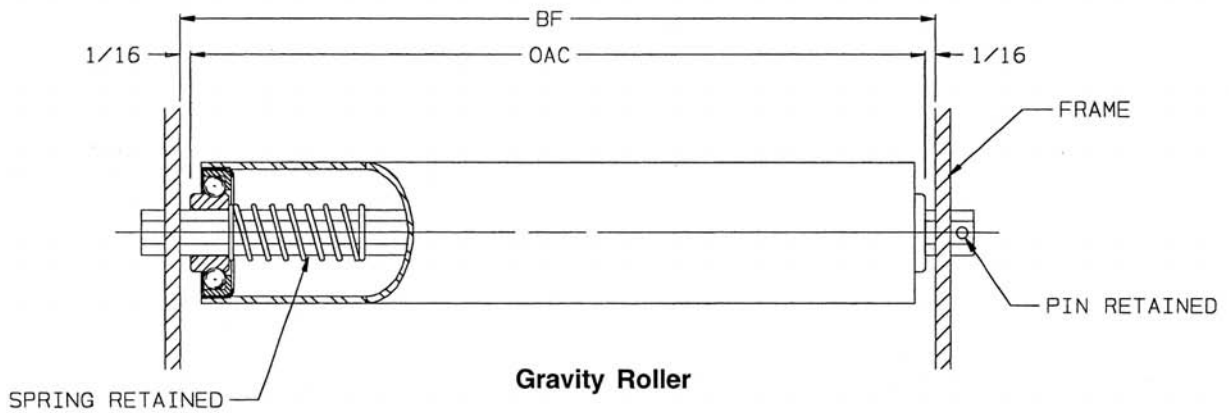
Shielded \_\_\_\_\_

Retained:

Pin Retained \_\_\_\_\_

Spring Retained \_\_\_\_\_

**NOTE:** Fill in dimensions on appropriate drawing.



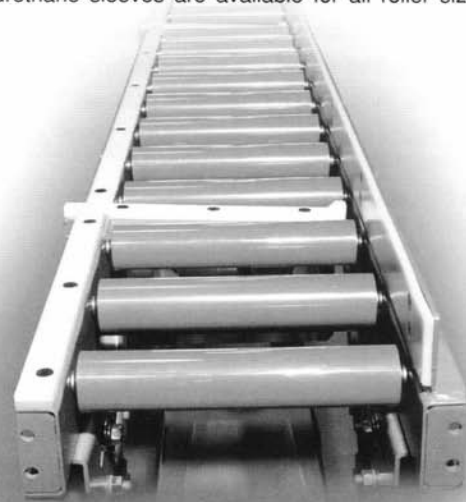
## COATED ROLLERS

Smooth and quiet coated rollers protect products, improve traction and operate with a reduced noise level.

- Straight or tapered rollers.
- Available in urethane, vinyl, vulcanized rubber and other materials.
- Vinyl and urethane sleeves are available for all roller sizes.

## URETHANE COVERED WHEELS

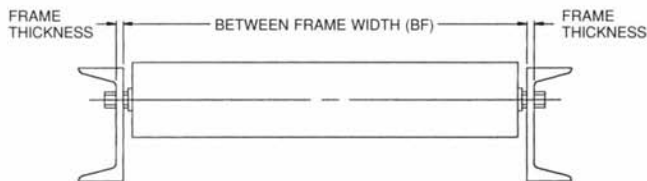
Provide a soft ride for a sensitive product on skatewheel conveyors.



## GENERAL INFORMATION

### Roller Description

A roller is an assembly of three major components: the axle, tube and bearings. The length of a roller is defined in terms of the "between frame width" or "BF". This BF dimension allows 1/16 in. clearance between the extension on the bearing and the side frame at each end. Frame thickness is important information to insure proper assembly.



### Roller Components

#### Axle

Most conveyor rollers have hexagonal axles to avoid rotation of the axles in the frames and to prevent the inner race from rotating on the axle. Round axles are also available. Larger sizes are kept from rotating by use of a keeper bar. Bearings used on these larger axles usually have set screws or eccentric locking collars to prevent inner races from rotating on the axle. Hex axles from 1/4 in. through 1 5/8 in. and round axles from 1/4 in. through 3 7/16 in. diameter are available.

#### Tube

Tubes are specified by outside diameter (O.D.) and wall thickness. Diameters from 1 in. through 8 in. are available. Wall thicknesses are expressed as either a fractional gage or a decimal dimension.

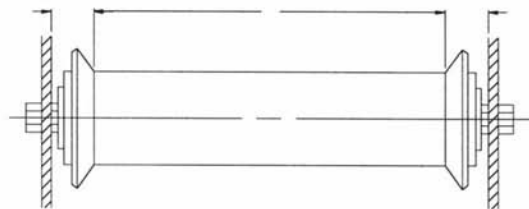
#### Bearings

In most cases, each roller illustrated will list various bearing options. The selection may include bearings that are plain, sealed or shielded. There may also be non-precision, precision or journal bearings from which to select. Select the bearing best suited for your needs.

### Other Options

#### Rollers with Flanges

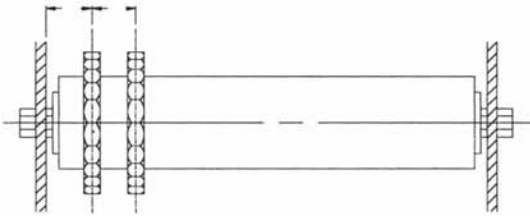
Flanges can be welded to the tube to guide the product. Flange location and quantity per tube must be specified.



## GENERAL INFORMATION

### Rollers with Sprockets

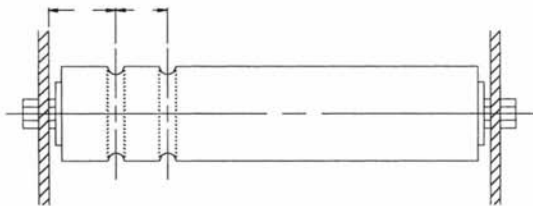
Type A plate sprockets are welded to rollers for use in Chain Driven Live Roller Conveyors. Single or multiple sprockets per roller are available. Location of sprockets, chain size and number of teeth must be specified. Hardened tooth sprockets are also available. Below are the standard sprockets for specified roller diameters. These sprockets may also be purchased individually.



STANDARD SPROCKETS					
Roller Dia.	Sprocket Size	Roller Dia.	Sprocket Size	Roller Dia.	Sprocket Size
1.9 in.	40A18	2 9/16 in.	40A22	4 in.	60A22
	50A15		50A18		80A17
	60A13		60A15		100A14
2 1/2 in.	40A22	3 1/2 in.	60A20	5 in.	80A20
	50A17		80A16		100A17
	60A15		100A13		

### Rollers with Grooves

Grooves can be rolled into the tube to accommodate urethane drive belts such as those used on Lineshaft Conveyors. Location of grooves must be specified. Standard roller diameters include 1 3/8 in., 1.9 in. and 2 1/2 in. Other sizes are available.



### Tapered Rollers

Tapered rollers are available in several sizes. Drive options include grooves & sprockets.

### Rollers with Shot Guards

Shot guards are available on select rollers and help protect the bearing against contamination.

### Rollers that are Hardened

All rollers with an 11 gage or thicker wall are available with a hardened tube surface. Case hardened depth and Rockwell hardness must be specified.

### Rollers with Special Coverings

Rollers are available with molded-on urethane or with slide-on sleeves. PVC covers are also available. Material type, durometer and thickness must be specified.

### Rollers with Lagging

Rollers are available with lagging. Types of lagging available for rollers include:

- Resilient rubber with adhesive back - 2 in. wide available in a 60 ft. roll.
- Sand paper with adhesive back - 2 in. wide available in a 60 ft. roll.
- Rough top belting (to be glued and riveted) - 1 in. wide or 2 in. wide available in a 50 ft. roll.

### Roller Capacities

Roller capacity refers to the maximum load a single roller can support. Key factors in establishing a roller's capacity are as follows:

- Bearing capacity.
- Bearing offset (dimension from side frame to centerline of balls).
- Axle deflection.
- Tube deflection.

Capacities in this catalog are based on tube deflection of no more than .21% of BF and axle angular deflection of no more than 1 degree at the bearings. Angular deflection of axle at the bearings is limited to .75 degrees for cylindrical semi-precision and precision bearings.

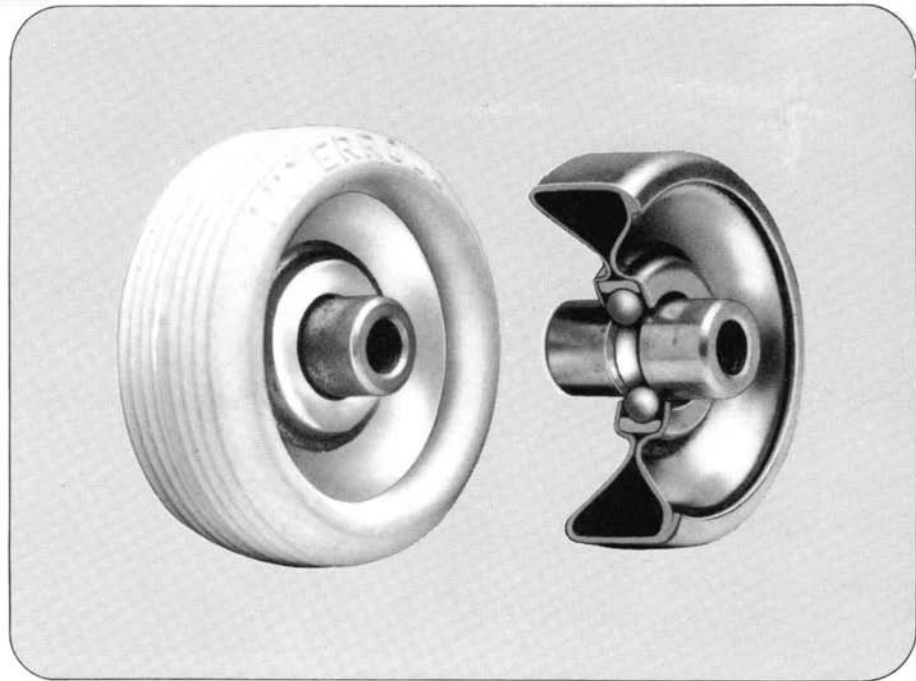
### Roller Selection for a Given Load

Because the conveying surface of products is not perfectly flat, use only 2/3 of the rollers under the product when calculating the required roll capacity.

Common sense tells us that it is not practical to use a 1 3/8 in. diameter roll on 1 1/2 in. centers for a 6000 lb. product (12 in. wide x 120 in. long), so in addition to the rule above, use the following guidelines:

Roll Diameter & Axle	Max. Product Weight
1 in. O.D. - 5/16 in. hex	300 lbs.
1 3/8 in. O.D. - 5/16 in. hex	600 lbs.
1.9 in. O.D. - 7/16 in. hex	1500 lbs.
2 1/2 in. O.D. - 11/16 in. hex	3500 lbs.
3 1/2 in. O.D. - 1 1/16 in. hex	6000 lbs.
3 1/2 in. O.D. - 1 7/16 in. O.D.	10,000 lbs.
4 in. O.D. - 1 7/16 in. O.D.	15,000 lbs.
5 in. O.D. - 1 11/16 in. O.D.	25,000 lbs.

The above guidelines assume "0" shock load and are not applicable for 3 or more lanes.



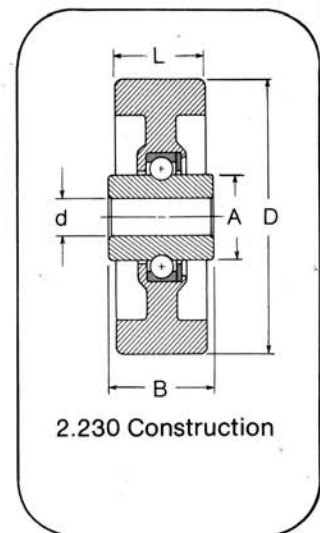
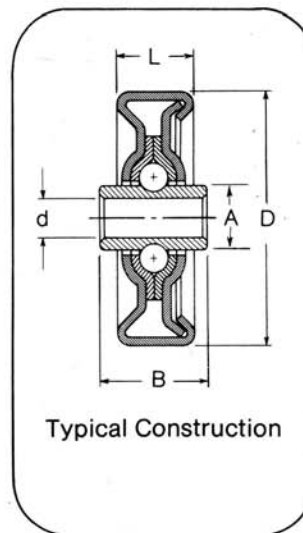
### Series 2.200 Metal Conveyor Wheels

Diameter — 1.50, 1.94, 2.31, 2.50 inch  
 Balls — Carbon Steel  
 Load Capacity — See table below

Series 2.200 wheels feature rugged all metal construction. Both inner and outer raceways are fully heat-treated for long trouble-free life. All external parts are zinc plated for good appearance and mild corrosion resistance. In addition, the 2.230 wheel features a die cast hard aluminum rim which is machined on the outer diameter to run true. This particular wheel is ideally suited for use in pallet handling applications.

All Series 2.200 wheels find wide application in wheel conveyors and live storage systems where their free rolling characteristics provide exceptional performance. They are also suitable for use as guide wheels around curves and along straight sections. Special designs can also be furnished to solve unique applications. Please check with factory for further information.

NOTE: Snap-on rubber tires are available for Series 2.200 conveyor wheels. They are generally used to provide silent operation, to eliminate skidding, or to protect fragile items. Order separately as part number 2.100.



Description	Part Number	D	d	A	B	L	Material	Capacity
Wheel	2.205	1.50	.25	.47	.81	.47	Steel	35 lbs.
Wheel	2.211	2.50	.31	.62	.97	.80	Steel	150 lbs.
Wheel	2.220*	1.94	.31	.47	.81	.63	Steel	50 lbs.
Wheel	2.225*	1.94	.31	.50	.81	.56	Steel	100 lbs.
Wheel	2.263*	1.94	.25	.48	.81	.67	Steel	75 lbs.






## VULKOLLAN® guiding rollers

## Series 173

Roller body made of steel with force-fitted roller bearing (/5). Direct bonded VULKOLLAN® tread.



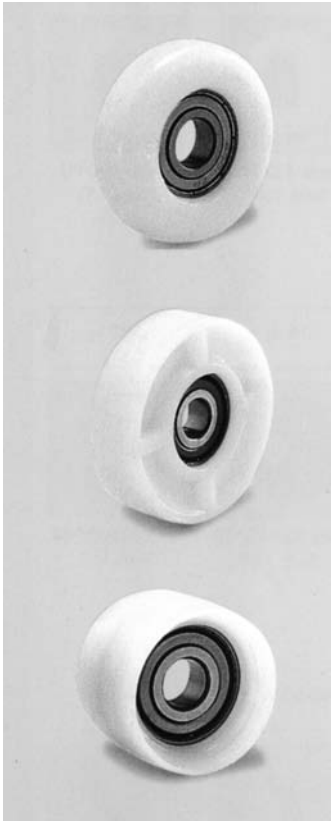
Artikel-Code

Artikel-Code	 mm	 mm	 mm	type of bearing	 mm	 kg	
173/040/015/5/010	40	15	8	6000-2Z	10	S	55
173/040/020/5/010	40	20	8	6000-2Z	10	S	70
173/040/025/5/010	40	25	8	6000-2Z	10	S	90
173/050/015/5/010	50	15	9	6200-2RS	10	S	70
173/050/020/5/012	50	20	10	6201-2RS	12	V	90
173/055/020/5/012	55	20	10	6201-2RS	12	S	100
173/055/020/5/015	55	20	11	6202-2RS	15	S	100
173/060/020/5/017	60	20	12	6203-2RS	17	S	110
173/060/020/5/020	60	20	12	6004-2RS	20	S	110
173/070/020/5/017	70	20	12	6203-2RS	17	S	125
173/070/020/5/020	70	20	12	6004-2RS	20	S	125
173/070/025/5/020	70	25	14	6204-2RS	20	S	160
173/070/025/5/025	70	25	15	6205-2RS	25	S	160
173/080/025/5/020	80	25	15	6304-2RS	20	S	180
173/080/025/5/025	80	25	15	6205-2RS	25	S	180
173/090/025/5/025	90	25	15	6205-2RS	25	S	200
173/100/025/5/025	100	25	15	6205-2RS	25	S	225
173/120/025/5/020	120	25	15	6304-2RS	20	S	270
173/120/025/5/025	120	25	15	6205-2RS	25	S	270
173/120/030/5/030	120	30	13	6006-2RS	30	S	320
173/125/030/5/020	125	30	30	6004-2RS (2x)	20	-	335
173/125/030/5/025	125	30	35	6005-2RS (2x)	25	-	335

S = circlip  
V = caulked








## Series 130 PA



### PEVOLON™ conveyor rollers with sealed precision bearings

Roller body made of high-quality thermoplastic polyamide molded around the precision ball bearing (5).

Artikel-Code	 mm	 mm	 mm	type of bearing	 mm	 kg
130 PA/030/011/5/08	30	11,0	7,0	608-2Z	8	60
130 PA/040/014,5/5/10	40	14,5	8,0	6000-2Z	10	100
130 PA/040/016/5/15 *	40	16,0	9,0	6002-2RS	15	120
130 PA/040/018,5/5/10	40	18,5	18,5	6000-2RS (2x)	10	140
130 PA/042/014,5/5/10	42	14,5	8,0	6000-2Z	10	110
130 PA/042/014,5/5/12	42	14,5	10,0	6201-2RS	12	110
130 PA/044/016/5/12	44	16,0	8,0	6001-2Z	12	130
130 PA/050/012/5/08 *	50	12,0	7,0	608-2Z	8	110
130 PA/050/015/5/10	50	15,0	9,0	6200-2RS	10	140
130 PA/050/015/5/12	50	15,0	8,0	6001-2RS	12	140
130 PA/050/015/5/12 *	50	15,0	8,0	6001-2Z	12	140
130 PA/050/018/5/12 *	50	18,0	10,0	6201-2RS	12	170
130 PA/050/020/5/12 *	50	20,0	10,0	6201-2RS	12	190
130 PA/054/022/5/12	54	22,0	10,0	6201-2RS	12	230
130 PA/055/025/5/15	55	25,0	9,0	6002-2RS	15	270
130 PA/060/030/5/15	60	30,0	13,0	6302-2RS	15	350
130 PA/062/020/5/12	62	20,0	19,2	6001-2RS (2x)	12	240
130 PA/070/035/5/20 B**	70	35,0	41,0	6204-2ZV (2x)	20	490
130 PA/080/020/5/12	80	20,0	10,0	6201-2RS	12	310
130 PA/080/020/5/15	80	20,0	11,0	6202-2RS	15	310
130 PA/080/020/5/17	80	20,0	12,0	6203-2RS	17	310
130 PA/080/025/5/25	80	25,0	12,0	6005-2RS	25	400
As above, but roller body with reinforcing ribs						
130 PA/065/018,5/5/10	65	18,5	9,0	6200-2RS	10	230
130 PA/065/018,5/5/12	65	18,5	10,0	6201-2RS	12	230
As above, but with wide tread						
130 PA/065/018,5/5/10	65	18,5	9,0	6200-2RS	10	230
130 PA/065/018,5/5/12	65	18,5	10,0	6201-2RS	12	230








\* black \*\* with crowned tread

## Series 131 PA



### PEVOLON™ single flanged rollers with prec. bearing

Roller body made of high-quality thermoplastic polyamide molded around the ball bearing (5).

Artikel-Code	 mm	 mm	 mm	 mm	 mm	type of bearing	 mm	 kg
131 PA/035/10/050/18/5/12	50	35	18	10	8	6001-2RS	12	70
131 PA/050/26,5/090/35/5/12*	90	50	35	26,5	10	6201-2RS	12	270
131 PA/062/19/080/26,5/5/17	80	62	26,5	19	12	6203-2RS	17	240
131 PA/062/19/080/26,5/5/15	80	62	26,5	19	11	6202-2RS	15	240
131 PA/062/19/080/26,5/5/17	80	62	26,5	19	10	6003-2RS	17	240
131 PA/060/20/065/25/5/15*	65	60	25	20	9	6002-2Z	15	240








\* with cylindrical tread

## Series 132 PA



### PEVOLON™ grooved wheels with prec. bearing

Roller body made of high-quality thermoplastic polyamide molded around the ball bearing (5).

Artikel-Code	 mm	 mm	 mm	 mm	 mm	type of bearing/	 mm	 kg
132 PA/065/055/018/5/17	65	55	18	R3,75	12	6203-2RS	17	75
132 PA/085/075/020/5/10	85	75	20	R8	9	6200-2RS	10	200
132 PA/085/075/020/5/12	85	75	20	R8	10	6201-2RS	12	200
132 PA/085/075/020/5/20	85	75	20	R8	14	6204-2RS	20	200






# CONVEYOR WHEELS ( Urothane )

# 13

Roller body made of high-quality thermoplastic polyurethane (96° shore A) molded around the precision ball bearing (/5).

## PEVOTHAN™ conveyor rollers with prec. bearings

### Series 130 PU

Artikel-Code	 mm	 mm	 mm	type of bearing/	 mm	 kg
130 PU/030/011/5/08	30	11	7	608-2Z	8	30
130 PU/040/014,5/5/10**	40	14,5	8	6000-2Z	10	50
130 PU/040/016/5/15*	40	16	9	6002-2RS	15	55
130 PU/040/020/5/10	40	20	9	6200-2RS	10	70
130 PU/042/014,5/5/10	42	14,5	8	6000-2Z	10	55
130 PU/042/014,5/5/12	42	14,5	10	6201-2RS	12	55
130 PU/050/015/5/10	50	15	9	6200-2RS	10	70
130 PU/050/015/5/12	50	15	8	6001-2RS	12	70
130 PU/055/025/5/15	55	25	9	6002-2RS	15	110
130 PU/060/018/5/12	60	18	10	6201-2RS	12	90
130 PU/062/020/5/17	62	20	14	6303-2RS	17	110
130 PU/070/025/5/20**	70	25	14	6204-2Z	20	150
130 PU/080/020/5/12	80	20	10	6201-2RS	12	140
130 PU/080/020/5/15	80	20	11	6202-2RS	15	140
130 PU/080/020/5/17	80	20	12	6203-2RS	17	140
130 PU/080/020/5/20	80	20	14	6204-2RS	20	140
130 PU/080/025/5/25	80	25	12	6005-2RS	25	170

As above, but roller body with reinforcing ribs

130 PU/065/018,5/5/10	65	18,5	9	6200-2RS	10	100
130 PU/065/018,5/5/12	65	18	10	6201-2RS	12	100

As above, but with wide tread

130 PU/038/028/5/12	38	28	10	6201-2RS	12	80
130 PU/038/038/5/12	38	38	10	6201-2RS	12	110
130 PU/042/028/5/10	42	28	8	6000-2Z	10	90
130 PU/042/028/5/12	42	28	10	6201-2RS	12	90
130 PU/042/038/5/12	42	38	10	6201-2RS	12	130








\* schwarz/black/noir  
\*\* braun/brown/brun



Roller body made of high-quality thermoplastic polyurethane (96° shore A) molded around the ball bearing (/5).

## PEVOTHAN™ single flanged rollers with prec. bearing

### Series 131 PU






Artikel-Code	 mm	 mm	 mm	 mm	 mm	type of bearing/	 mm	 kg
131 PU/050/26,5/090/35/5/12	90	50	35	26,5	10	6201-2RS	12	120
131 PU/062/19/080/26,5/5/15	80	62	26,5	19	11	6202-2RS	15	100
131 PU/062/19/080/26,5/5/17	80	62	26,5	19	12	6203-2RS	17	100
131 PU/062/19/080/26,5/5/17	80	62	26,5	19	10	6003-2RS	17	100



PEVOLON™ roller body with a non-detachable, mechanically bonded tread made of high quality thermoplastic polyurethane (96°shore A) molded around the ball bearing (/5).

## PEVOLASTIC™ conveyor rollers with prec. bearings

### Series 133 PU

Artikel-Code	 mm	 mm	 mm	type of bearing/	 mm	 kg
133 PU/050/020/5/10	50	20	9	6200-2RS	10	90
133 PU/080/027/5/20	80	27	14	6204-2RS	20	190

