TECHNICOR

CATALOG # 0808

CONTENTS

We reserve the right to change specifications without notice.

SALES POLICY

COMPANY NAME

Technicor Industrial Services Inc.

450 Richardson Road
Orangeville ON
Canada L9W 4W8

Tel: (519) 941-6120 **(800) 858-1707**
Fax: (519) 941-5141
e-mail: generalmail@technicor.ca
www.technicor.ca

PRODUCTS

Engineered Plastics—Precision Machined Products:
SI Series Chain tensioners; UHMW sheets/strips and rod; UHMW wear strips and liners; UHMW chain guides and flight attachments; Thermoplastic conveyor end bearings and complete food-grade conveyor rollers; Thermoplastic housings; Custom CNC components and wheels; Thermoplastic ball radial bearings and wheels; SS316 ball bearings; chain guides and curves; plastic sprockets; chain guides for side-flexing conveyor chain

PRICES & DISCOUNTS

Net pricing applies as shown in TECHNICOR price lists.
Bulk package pricing and volume sensitive discounts apply, as specified in the price lists. Price lists are available on request.
TECHNICOR reserves the right to change prices without notice

MINIMUM ORDER

A minimum of $50 per order applies.

SHIPPING

Shipments are F.O.B. Orangeville, ON, Canada, freight collect

PAYMENT

First order: COD or payment in advance; After credit approval, payment terms are Net 30 days.

RETURNS

Goods may be returned only after prior written approval and an RGA number has been assigned. All goods to be returned prepaid and in resaleable condition. A 15% re-stocking charge applies.

SALES PROGRAM

Product seminars will be offered, as requested. Product catalogs, technical bulletins, and demonstration display materials are available upon request.

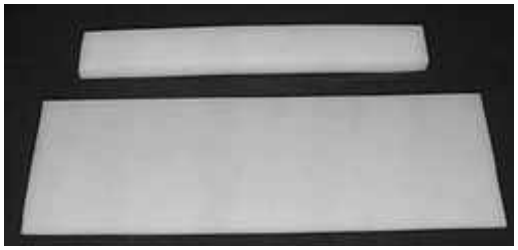
WARRANTY

Products are guaranteed to be free from defects in material and workmanship under normal use and service. Claims must be issued within 90 days after delivery, or within 10 days after discovery of the defect, whichever occurs first. No defective materials are to be returned without prior written approval and shipping instructions.

CUSTOM ORDERS

Custom orders are subject to special conditions: we reserve the right to ship ±10% of the quantity ordered, and right of refusal to return for credit.
Custom orders require written purchase orders, customer-approved drawings before order entry, and deposit with purchase order.

UHMW Sheet, Rod, & Wear Strips

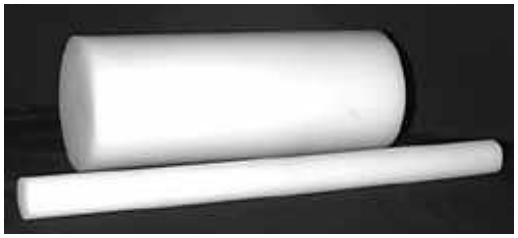


UHMW Sheets are stocked in thicknesses from 1/8" to 3"; Standard width 48"; Standard lengths are 96" and 120". Sheets 60" X 144" are readily available. A variety of colours and blends are available (price premium applies)

To order sheet, specify grade, thickness, width, and length.
Example: UHMW-RPR BLK 1/2 x 48 x 120

Grades:

Virgin natural(white)	UHMW-NAT	Reprocessed (green)	UHMW-RPR GRN
Virgin black	UHMW-VIR BLK	Static-reduced	UHMW-SR
Reprocessed (black)	UHMW-RPR BLK	Oil-filled (food-approved)	UHMW-OF



UHMW Solid Rods are stocked in diameters from 1/2" to 6". Standard rod length is 10 ft. but rods are sold in one foot increments. For 8" dia and larger, min. lengths may apply.

To order rod, specify grade, diameter, and length.
Example: UHMW-NAT Rod 2" dia. X 5 ft.

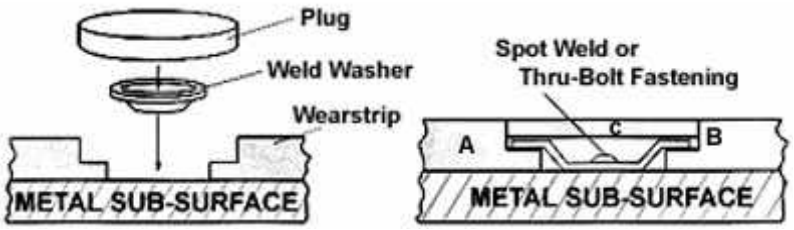
UHMW—PE : Ultra High Molecular Weight Polyethlene
Physical Properties : Natural Virgin

Typical Properties	Value	Test Methods
Density, g/cm^3	0.93	ASTM D 792
Vicat softening point, °C	136	ASTM D 1525B
Hardness, Rockwell R Scale Durometer (D/15)	64 68	ASTM D 785 ASTM D 2240
Deflection temperature °C At 66 psi At 264 psi	 79 46	ASTM D 648
Tensile properties Maximum strength, psi Yield strength, psi	 6,000 2,900	ASTM D 638 2 in./min
Elongation at yield, %	4	
Elongation at break, %	300+	
Flexural modulus, 1% secent, psi	110,000	ASTM D 790B
Izod impact strength at 23°C, ft-lbs/in. Notched Double-notched	 No break 20+	 ASTM D 256A HIMONT 116
Tensile impact, ft-lbs/in^2.	400	ASTM D 1822
Shear strength, psi	4,000	ASTM D 732

Typical Properties	Value	Test Methods
Flexural modulus of elasticity, psi	77,000	Bend-creep test 1-min value
Mean coefficient of linear thermal expansion per °C -30° to 0°C 0° to 30°C 30° to 60°C	 1.27×10^{-4} 1.27×10^{-4} 2×10^{-4}	ASTM D 696
Coefficient of friction against Cr-plated steel at 23°C Static Dynamic Abrasion Index (Relative to steel at 100)	 .19-.22 .14-.16 10	ASTM D 1894 (Modified) Sand Slurry
Specific heat at 23°C cal / g, °C	0.48	Differential scanning calorimeter
Dielectric constant 60 cycles to 10^6 cycles	2.3-2.35	ASTM D 150
Dissipation factor, 60 cycles to 10^6 cycles	$<0.5 \times 10^{-3}$	ASTM D 150

TECHNICOR

UHMW Weld Washer Installation Method



The weld washer method of installation is quick and low cost. It provides for thermal expansion of the wear strip.

Catalog No.	Type	Washer Height	Washer Dia.
WW-1 3/8	Steel Weld-Washer	1/4”	1 3/8”
WW-1 3/8 SS	Stainless Steel Weld Washer	1/4”	1 3/8”

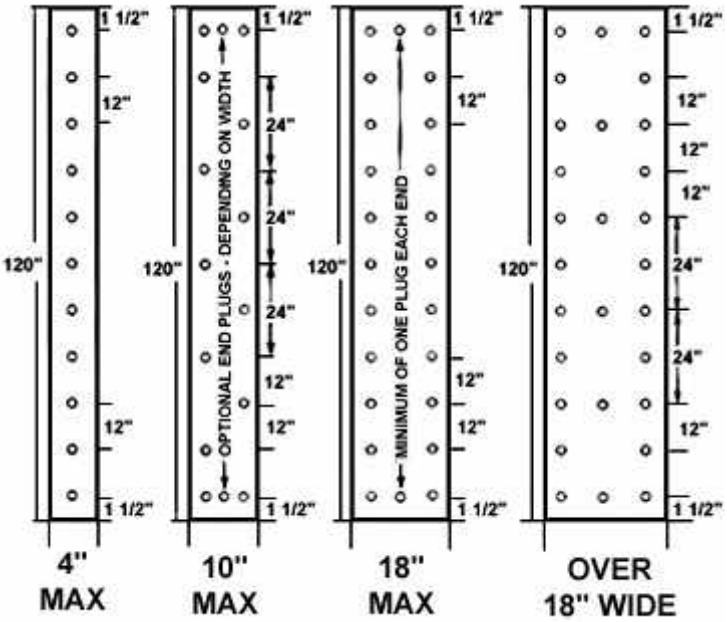
Advantages:

- no tapping, drilling or accurate bolt positioning
- low installation costs
- quick installation
- no danger of fasteners vibrating loose
- weld washers available in steel, aluminum, or stainless
- easy fit of weld washers
- smooth surface without fastener protrusions
- washer tack-welded to support surface
- no holes in support surface
- accommodates thermal expansion & contraction

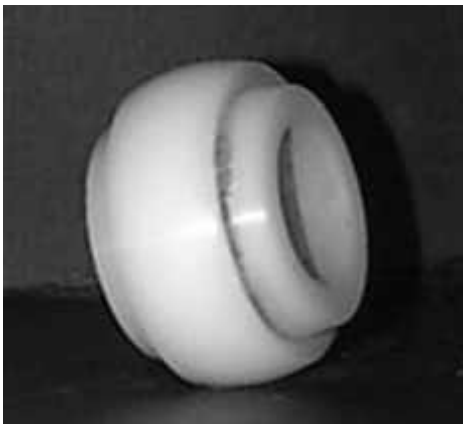
Sample available on request.

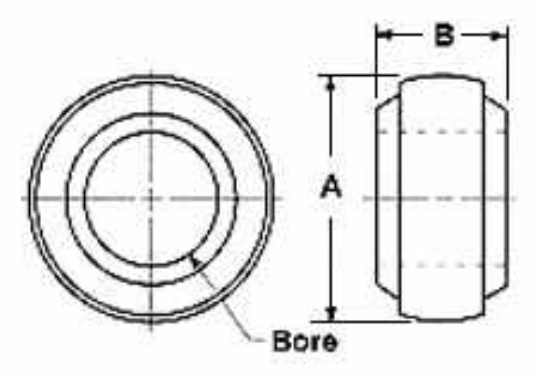
Catalog No.	Type of Plug	Sheet Thickness (A)	Plug Dia.	Counter-bore depth (B)	Plug Thick-ness (C)
	No Plug	1/4	1 1/2	1/8	None
PL-1/8 N	White	3/8	1 1/2	1/4	1/8
PL-1/8 B	Black				
PL-1/4 N	White	1/2	1 1/2	3/8	1/4
PL-1/4 B	Black				
PL-1/2 N	White	3/4	1 1/2	5/8	1/2
PL-1/2 B	Black				

Recommended Drill Pattern for Weld-Washer Installation



UHMW Self-Aligning Bearing Inserts





UHMW self-aligning inserts are designed to replace self-aligning ball bearings or roller bearings having a spherical O.D. They are for use in standard housings. These inserts fit standard pillow blocks and flange units. Made of USDA/FDA approved material, they are ideal in the food and packaging industry. Self-aligning capabilities are the same as metal inserts. **FOR OTHER BEARING INSERTS - SEE PAGES 4 c/d**

Catalog No.	Nominal Bore	A	B	Max Speed (rpm)	Max Load (lbs)
PI -1/2 -203	1/2	1.575	1.024	350	200
PI -1/2 -204	1/2	1.850	1.024	250	200
PI -9/16 -203	9/16	1.575	1.024	300	216
PI -9/16 -204	9/16	1.850	1.024	300	216
PI -5/8 -203	5/8	1.575	1.024	275	233
PI -5/8 -204	5/8	1.850	1.024	275	233
PI -11/16 -203	11/16	1.575	1.024	250	266
PI -11/16 -204	11/16	1.850	1.024	250	266
PI -3/4 -204	3/4	1.850	1.084	225	333
PI -3/4 -205	3/4	2.047	1.182	225	333
PI -13/16	13/16	2.047	1.182	200	366
PI -7/8	7/8	2.047	1.182	200	400
PI -15/16	15/16	2.047	1.182	175	433
PI -1	1	2.047	1.182	175	466

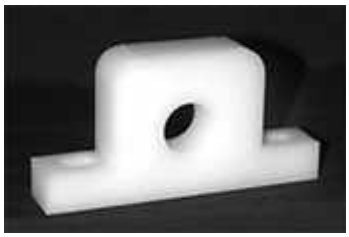
Catalog No.	Nominal Bore	A	B	Max Speed (rpm)	Max Load (lbs)
PI -1 1/16	1 1/16	2.441	1.418	150	600
PI -1 1/8	1 1/8	2.441	1.418	150	633
PI -1 3/16	1 3/16	2.441	1.418	150	666
PI -1 1/4	1 1/4	2.441	1.418	125	733
PI -1 1/4 - 207	1 1/4	2.835	1.496	125	733
PI -1 5/16	1 5/16	2.835	1.496	125	766
PI -1 3/8	1 3/8	2.835	1.496	125	800
PI -1 7/16	1 7/16	2.835	1.496	125	833
PI -1 1/2	1 1/2	3.150	1.732	100	1033
PI -1 9/16	1 9/16	3.150	1.732	100	1066

PV must not exceed 3,000 where P= pressure in lbs/in^2 (800 max); V= velocity in surface ft/min (50 max)
Also available in high-temperature PTFE : max temp. 450°F.;specify suffix - HT

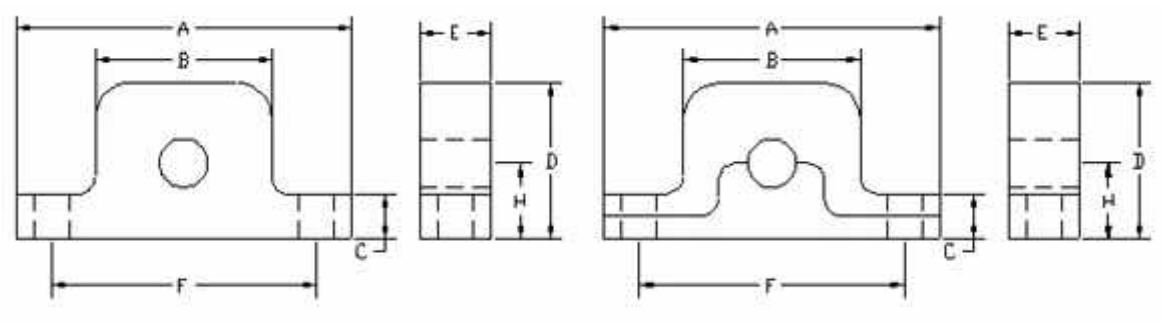
TECHNICOR

UHMW Pillow Blocks

Standard



Split

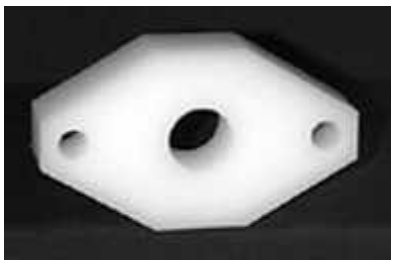


UHMW pillow blocks are sanitary as they are made from USDA/FDA approved material. They are light weight and have a low coefficient of friction. Shafts run directly on the UHMW material of the pillow block bore. If ambient temperatures are low or if water or other liquids provide sufficient cooling, the PV limits may be increased as long as the max. temperature is not exceeded (180° - 200°F). **FOR OTHER PILLOW BLOCKS SEE PAGES 4 a/b**

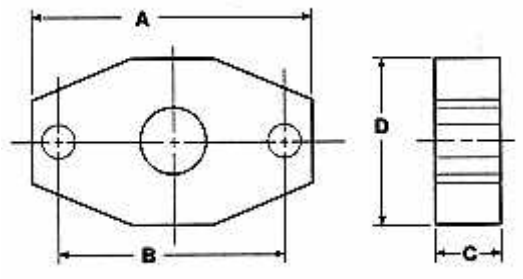
Catalog No. (Standard)	Catalog No. (Split)	Nominal Bore	A	B	C	D	E	H	Bolt Dia.	Bolt Center Range F	Max. Speed (rpm)	Max. Load (lbs)
PP-1/2	PP-1/2 - S	1/2									380	400
PP-9/16	PP-9/16 - S	9/16	4 3/4	2 1/2	5/8	2 3/16	1	1 1/16	3/8	2 7/8 to 3 7/8	330	450
PP-5/8	PP-5/8 - S	5/8									300	500
PP-11/16	PP-11/16 - S	11/16									270	550
PP-3/4	PP-3/4 - S	3/4	5 1/4	2 3/4	5/8	2 1/2	1	1 1/4	3/8	3 1/4 to 4 1/4	250	750
PP-13/16	PP-13/16 - S	13/16									230	800
PP-7/8	PP-7/8 - S	7/8	5 1/2	3	3/4	2 3/4	1	1 5/16	3/8	3 1/2 to 4 1/2	210	865
PP-15/16	PP-15/16 - S	15/16									200	933
PP-1	PP-1 - S	1									190	1000
PP-1 1/16	PP-1 1/16 - S	1 1/16									175	1266
PP-1 1/8	PP-1 1/8 - S	1 1/8	6 1/4	3 1/2	7/8	3 1/4	1 1/2	1 9/16	1/2	4 1/4 to 5 1/4	165	1350
PP-1 3/16	PP-1 3/16 - S	1 3/16									160	1416
PP-1 1/4	PP-1 1/4 - S	1 1/4									150	1450
PP-1 5/16	PP-1 5/16 - S	1 5/16	6 1/2	3 3/4	7/8	3 5/8	1 1/2	1 13/16	1/2	4 1/2 to 5 1/2	140	1565
PP-1 3/8	PP-1 3/8 - S	1 3/8									135	1650
PP-1 7/16	PP-1 7/16 - S	1 7/16									130	1700
PP-1 1/2	PP-1 1/2 - S	1 1/2	7	4 1/8	7/8	4	1 1/2	1 15/16	1/2	4 7/8 to 5 7/8	120	1800
PP-1 9/16	PP-1 9/16 - S	1 9/16									120	1875

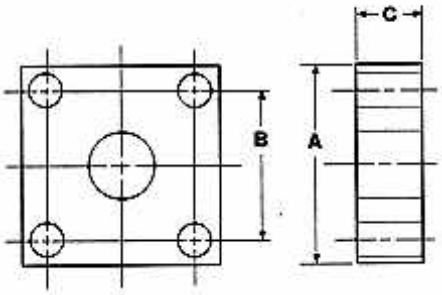
UHMW Pillow Blocks are dimensionally interchangeable with Unit blocks of most major manufacturers.
PV must not exceed 3,000 where P= pressure in lbs/in^2 (800 max); V= velocity in surface ft/min (50 max)
Also available in high-temperature PTFE : max. temp. 450°F.; Specify suffix - HT

UHMW Flange Bearings



UHMW provides a low coefficient of friction and makes an ideal bearing material. As the material is USDA/FDA approved, these flange bearings are ideal for the food and packaging industry. Speed and load data must be used as a guide only. Note PV limits below.





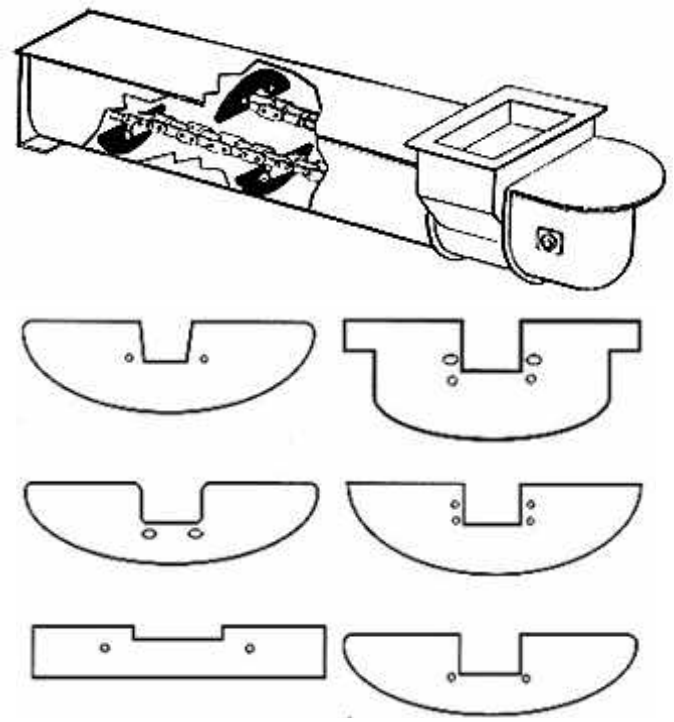
Catalog No.	A	B	C	D	Bolt Dia.	Max. Speed (rpm)	Max. Load (lbs)
PF-1/2-2B						380	400
PF-9/16-2B	3 7/8	3	1	2	3/8	330	450
PF-5/8-2B						300	500
PF-11/16-2B						275	550
PF-3/4-2B	4 13/32	3 17/32	1	2 1/2	3/8	250	750
PF-13/16-2B						230	800
PF-7/8-2B	4 7/8	3 57/64	1	2 3/4	7/16	210	865
PF-15/16-2B						200	933
PF-1-2B						190	1000
PF-1 1/16-2B						175	1266
PF-1 1/8-2B	5 9/16	4 19/32	1 1/2	3 1/8	7/16	165	1350
PF-1 3/16-2B						160	1416
PF-1 1/4-2B						150	1450
PF-1 5/16-2B	6 1/8	5 1/8	1 1/2	3 1/2	1/2	140	1565
PF-1 3/8-2B						130	1650
PF-1 7/16-2B						130	1700
PF-1 1/2-2B	6 3/4	5 21/32	1 1/2	4	1/2	125	1800
PF-1 9/16-2B						120	1875

Catalog No.	A	B	C	Bolt Dia.	Max. Speed (rpm)	Max. Load (lbs)
PF-1/2-4B					380	400
PF-9/16-4B	3	2 1/8	1	3/8	330	450
PF-5/8-4B					300	500
PF-11/16-4B					275	550
PF-3/4-4B	3 3/8	2 1/2	1	3/8	250	750
PF-13/16-4B					230	800
PF-7/8-4B	3 3/4	2 3/4	1	7/16	210	865
PF-15/16-4B					200	933
PF-1-4B					190	1000
PF-1 1/16-4B					175	1266
PF-1 1/8-4B	4 1/4	3 1/4	1 1/2	7/16	165	1350
PF-1 3/16-4B					160	1416
PF-1 1/4-4B					150	1450
PF-1 5/16-4B	4 3/4	3 5/8	1 1/2	1/2	140	1565
PF-1 3/8-4B					130	1650
PF-1 7/16-4B					130	1700
PF-1 1/2-4B	5 1/8	4	1 1/2	1/2	125	1800
PF-1 9/16-4B					120	1875

UHMW Flange Bearings are dimensionally interchangeable with those of most major manufacturers.
PV must not exceed 3,000 where P= pressure in lbs/in^2 (800 max); V= velocity in surface ft/min (50 max)
Also available in high-temperature PTFE : max. temp. 450°F.; Specify Suffix - HT

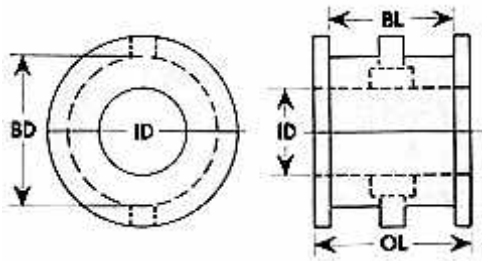
TECHNICOR

UHMW Conveyor Drag Flights



UHMW conveyor drag flights are very strong, abrasion-resistant, and will not break even at extremely low temperatures. The material is USDA/FDA approved, heat and cold resistant, and self-lubricating. To order, supply sample or drawing with critical dimensions.

UHMW Screw Conveyor Hanger Bearings - Type 226

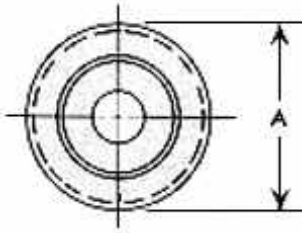


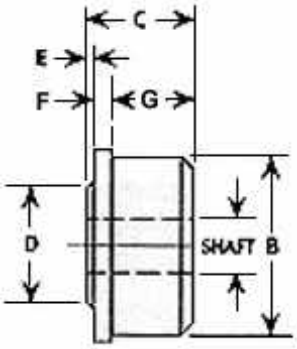
UHMW hanger bearings are used in screw conveyors. They are manufactured to CEMA standards and made of USDA/FDA approved material. They are water, acid, and alkali resistant. Custom sizes available

Catalog No.	Shaft Size I.D.	BD	BL	OL
DX-1000-226	1	1-1/2	1-1/16	1-7/16
DX-1125-226	1-1/8	1-3/4	1-1/2	1-7/8
DX-1250-226	1-1/4	2-3/8	1-11/16	2
DX-1500-226	1-1/2	2-1/8	1-9/16	1-15/16
DX-2000-226	2	2-3/4	1-9/16	1-15/16
DX-2716-226	2-7/16	3-1/4	2-3/8	2-15/16
DX-3000-226	3	4	2-3/8	2-15/16
DX-3716-226	3-7/16	4-3/4	3-1/8	3-15/16

UHMW Conveyor Roll-End Bearings

These roll end bearings are very suitable for light-duty conveyor applications as they are made from tough, low-friction UHMW . Often, they can replace expensive ball bearing assemblies. Medium-duty bearings, having higher load ratings, are identical except for the C (length) dimension being greater.
For standard tolerances, see page 9-a





Catalog No.	A Tubing OD	Tubing Gauge	Tubing Wall	B Tubing ID	C Length	D	E	F	G
420DL	1/2	20	.035	.430	1/2	3/8	1/16	1/8	5/16
418DL	1/2	18	.049	.402	1/2	3/8	1/16	1/8	5/16
520DL	5/8	20	.035	.555	1/2	3/8	1/16	1/8	5/16
4EMDL	.706	1/2" EMT	.042	.622	11/16	7/16	1/16	1/8	1/2
620DL	3/4	20	.035	.680	11/16	1/2	1/16	1/8	1/2
618DL	3/4	18	.049	.652	11/16	1/2	1/16	1/8	1/2
616DL	3/4	16	.065	.620	11/16	1/2	1/16	1/8	1/2
720DL	7/8	20	.035	.805	11/16	1/2	1/16	1/8	1/2
718DL	7/8	18	.049	.777	11/16	1/2	1/16	1/8	1/2
716DL	7/8	16	.065	.745	11/16	1/2	1/16	1/8	1/2
6EMDL	.922	3/4" EMT	.049	.824	11/16	1/2	1/16	1/8	1/2
820DL	1	20	.035	.930	11/16	5/8	1/16	1/8	1/2
818DL	1	18	.049	.902	11/16	5/8	1/16	1/8	1/2
817DL	1	17	.058	.884	11/16	5/8	1/16	1/8	1/2
816DL	1	16	.065	.870	11/16	5/8	1/16	1/8	1/2
6P40DL	1.050	3/4"Pipe SCH 40	.113	.824	11/16	5/8	1/16	1/8	1/2
917DL	1 1/8	17	.058	1.009	11/16	5/8	1/16	1/8	1/2
916DL	1 1/8	16	.065	.995	11/16	5/8	1/16	1/8	1/2
8EMDL	1.163	1" EMT	.057	1.049	11/16	5/8	1/16	1/8	1/2
1020DL	1 1/4	20	.035	1.180	3/4	7/8	1/16	1/8	9/16
1018DL	1 1/4	18	.049	1.152	3/4	7/8	1/16	1/8	9/16
1016DL	1 1/4	16	.065	1.120	3/4	7/8	1/16	1/8	9/16
8P40DL	1.315	1"Pipe SCH 40	.133	1.049	3/4	1	1/16	1/8	9/16
1118DL	1 3/8	18	.049	1.277	3/4	1	1/16	1/8	9/16
1116DL	1 3/8	16	.065	1.245	3/4	1	1/16	1/8	9/16
1220DL	1 1/2	20	.035	1.430	1	1	1/16	3/16	3/4
1218DL	1 1/2	18	.049	1.402	1	1	1/16	3/16	3/4
1216DL	1 1/2	16	.065	1.370	1	1	1/16	3/16	3/4
10EMDL	1.510	1 1/4" EMT	.065	1.380	1	1	1/16	3/16	3/4
1320DL	1 5/8	20	.035	1.555	1	1	1/16	3/16	3/4
1318DL	1 5/8	18	.049	1.527	1	1	1/16	3/16	3/4
1316DL	1 5/8	16	.065	1.495	1	1	1/16	3/16	3/4
12EMDL	1.740	1 1/2" EMT	.065	1.610	1	1	1/16	3/16	3/4
1420DL	1 3/4	20	.035	1.680	1	1	1/16	3/16	3/4
1418DL	1 3/4	18	.049	1.652	1	1	1/16	3/16	3/4
1416DL	1 3/4	16	.065	1.620	1	1	1/16	3/16	3/4
1520DL	1 7/8	20	.035	1.805	1	1	1/16	3/16	3/4
1518DL	1 7/8	18	.049	1.777	1	1	1/16	3/16	3/4
1516DL	1 7/8	16	.065	1.745	1	1	1/16	3/16	3/4
12P40DL	1.900	1 1/2"Pipe SCH 40	.145	1.610	1	1	1/16	3/16	3/4
12P80DL	1.900	1 1/2"Pipe SCH 80	.200	1.500	1	1	1/16	3/16	3/4

NOTE: Insert shaft size after part number. Proper running clearance will be provided.
Increasing the length of the bearings provides high load ratings. Ask for details.

Polymer Bearings—Technical Information

Definition: A polymer bearing is a friction, bushing-type bearing (as opposed to an anti-friction, rolling element bearing).

PV
The load capacity of a polymer bearing is based on a "Pressure-Velocity" (PV) constant (see formula below). As shown in the tables, the load capacity increases as the speed decreases, but actual bearing operating conditions are often different from the conditions used to generate these tables. Ambient temperatures, shaft material and finish, lubrication, moisture, abrasive and/or chemical contamination are just some of the conditions that can adversely affect bearing life. The loads listed in the chart are intended to be a practical guide for selecting a bearing. Field testing under actual conditions is recommended.

Temperature
Heat has a tendency to soften polymers. The load carrying capacity can be reduced significantly as the ambient temperature approaches the maximum operating temperature for the material. Consult **TECHNICOR**'s engineering team for high temperature applications.

Clearance
Polymer bearing clearances should be much greater then those recommended for metallic bushings. Adequate consideration for shaft clearance needs to be followed due to frictional heat build-up that can significantly change the dimensions of the bearing. Housed bearings and inserts are machined to the correct clearances, so no additional machining is required.

Shaft Hardness
Shaft hardness is a major factor in the operation of polymer bearings. Shafts and bearings will last longer as the degree of hardness increases. A shaft finish of 16MU (microinches) is recommended for most applications.

Operating PV
The load carrying capacity of a polymer bearing can be expressed as a PV factor.

P: expressed as pounds per square inch (psi) on the projected bearing area
P (psi)= bearing load in pounds / (bearing dia. in inches X bearing length in inches)
V: surface velocity expressed in feet per minute (fpm)
V (fpm)= .262 X shaft dia. in inches X shaft rpm

Each material has maximum pressure (P) and velocity (V). These values should not be exceeded. At no time can both maximums be used simultaneously. For loads and speeds exceeding polymer ratings, select stainless steel ball bearings.

Bearing material PV chart

Material	Max PV	Max P (psi)	Max V (fpm)	Max Temp (°F)
UHMW-Virgin	2000	800	50	180
UHMW-oil-filled	2300	1400	100	180
Nylon– oil-filled	16000	2000	400	230

Plastic Ball Bearings
10 Good Reasons To Use Them

1. CORROSION RESISTANCE:

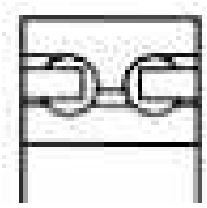
Most bearing failures are caused by corrosion. Thermoplastic ball bearings can be utilized in environments destructive to conventional bearings. They can operate in hostile environments such as sea water, film processing solutions and swimming pools. In many cases the medium can be used as a lubricant.

2. LUBRICATION FREE:

There are three reasons steel bearings require lubrication; to reduce friction, dissipate heat and resist corrosion. Plastic, by nature, does not corrode. Due to the design of plastic ball bearings, there is no metal to metal contact, resulting in less friction; therefore dissipating heat becomes less critical.

3. DESIGN FLEXIBILITY:

Special designs are readily and inexpensively made from plastics. This allows engineers complete freedom to design the bearing around the device rather than attempting to design the device around a limited range of standard bearings.



4. PRODUCT INTEGRATION:

Many times a bearing is mounted into another part, such as a plastic pulley, sprocket, wheel or a mounted block. Utilizing the design concept of a plastic ball bearing, our designers can integrate the mating component as the raceway of the bearing, i.e: pulley as the outer ring, or the shaft as the inner ring. The end result is fewer parts, reduced assembly time, and overall lower cost.

5. NON METALLIC NON MAGNETIC:

Plastic ball bearings become completely non magnetic when fitted with either polymer, glass, or non magnetic 316 stainless balls. They are ideal for use where there can be no magnetic distortion.

6. HYGIENIC:

Plastic ball bearings are naturally clean because they do not corrode or require lubrication. They are ideal for wash down applications and clean room environments.

7. NOISE CONTROL:

Plastics have the inherent ability to dampen vibrations. Add lubrication and they become virtually silent.

8. SHOCK LOAD SUPPRESSION:

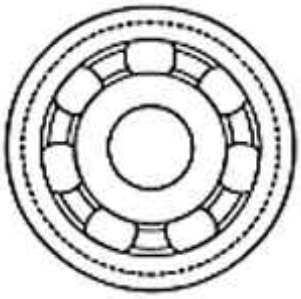
Plastics absorb shock loads better than metal due to their elastic nature. Many conventional radial ball bearings fail due to brinelling of the raceway, i.e: balls denting the raceway.

9. LIGHTWEIGHT:

Plastics are five times lighter than steel, thereby reducing the weight and energy required to move them.

10. LOW INERTIA - FREER TURNING:

Plastic ball bearings run freer and naturally have low inertia due to the low coefficient of friction between plastic and stainless. Two other factors contributing to low inertia are the ability to run without grease and being lighter in weight.



Thermoplastic Ball Bearings

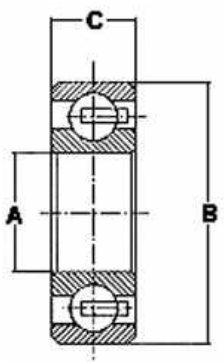
Chemical Compatibility

	ACETAL	POLY-PROPY-LENE	KYMAR ®	VALOX ®	NYLON ®	PEEK ®	TORLON ®	AURUM ®	UHMW
WEAK ACIDS 73° F	A	A	A	A	A	A	A	A	A
STRONG ACIDS 73° F	U	A	A	L	U	L	L	L	L
WEAK ALKALIES 73° F	A	A	A	L	A	A	L	A	A
STRONG ALKALIES 73° F	U	A	L	A	A	A	L	A	A
HYDROCARBONS	A	A	A	L	A	A	A	A	L
KETONES	A	A	U	L	A	A	A	A	A
ETHERS	A	-	A	-	A	-	A	-	A
ESTHERS	A	L	A	A	A	A	A	-	A
ALCOHOLS	A	A	L	L	A	-	L	-	A

A = ACCEPTABLE L = LIMITED U = UNACCEPTABLE - = NO RATING

This chart is for reference only, Testing in actual chemical concentrations is recommended.

Thermoplastic Radial Ball Bearings



Radial Ball Bearings - Caged - Inch - Single Row

Catalog Number	Optional Size	A	B	C	Load Capacity Stat (lbs)	Load Capacity Dyn (lbs)	Max RPM (no load)
R3		3/16	1/2	5/32	11	17	3000
R3A		3/16	5/8	0.196	17	26	2300
R4		1/4	5/8	0.196	17	26	2300
R4A		1/4	3/4	7/32	17	26	2300
R4AW		1/4	3/4	9/32	17	26	2300
R6		3/8	7/8	7/32	33	42	1600
R6A		3/8	7/8	9/32	33	42	1600
R8	5/8 bore	1/2	1-1/8	1/4	43	55	1150
R8A	1/2 bore	3/8	1-1/8	3/8	43	55	1150
R10A		5/8	1-3/8	3/8	46	69	1050
R10B	3/8&1/2 bore	5/8	1-3/8	7/16	46	69	1100
R12	7/16 width	3/4	1-5/8	5/16	52	78	850
R16	1-1/4 bore	1	2	1/2	61	92	900

Radial Ball Bearings - Caged - Metric - Single Row

Catalog Number	A	B	C	Load Cap Stat (lbs)	Load Cap Dyn (lbs)	Max RPM (no load)
625	5	16	5	15	25	2500
606	6	17	6	17	27	2500
626	6	19	6	18	28	2000
608	8	22	7	20	30	1800
6000	10	26	8	33	42	1600
6001	12	28	8	26	36	1300
16002	15	32	8	35	48	1100
6002	15	32	9	35	48	1100
6003	17	35	10	35	48	1100
6004	20	42	12	48	60	1000
16005	25	47	8	53	68	900
6005	25	47	12	53	68	900
6200	10	30	9	33	45	1300
6201	12	32	10	36	48	1100
6202	15	35	11	40	54	1100
6203	17	40	12	46	69	1000
6204	20	47	14	62	78	800
6205	25	52	15	55	72	700
6301	12	37	12	40	54	1100
6305	25	62	17	66	88	700

Race material:
Acetal (prefix A) is standard unless otherwise noted.
Polypropylene (prefix P),
Stainless Steel (prefix SS), and other materials also available.

Ball materials:
SS316 is standard (suffix –6)
Glass balls available (suffix –GL)
Other materials also available on request.

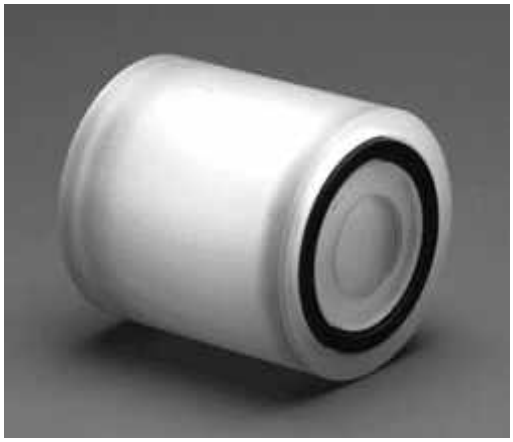
Variations:
Bore and width sizes other than shown also available.

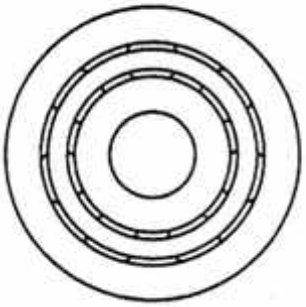
To order specify prefix, catalog number, and suffix:
Example:
AR8-6-5/8
Basic bearing: R8
Race material: Acetal (prefix)
Ball material: SS316 (suffix)
Optional 5/8" bore (suffix)

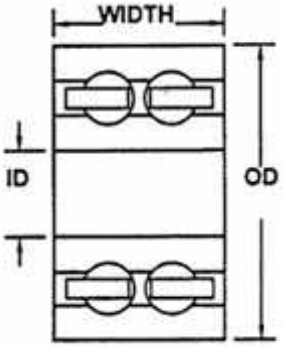
Load, speed, and dimensional data are for reference only.

TECHNICOR

Thermoplastic Radial Ball Bearings







Radial Ball Bearings - Double Row - Inch Sizes

Catalog Number	ID	OD	Width	Optional Size	Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
R4DR	1/4	5/8	3/8		1881	37	20
R4ADR	1/4	3/4	3/8		1881	37	20
R6DR	3/8	7/8	1/2		1280	60	43
R8DR	1/2	1-1/8	7/16	3/8 Bore	913	78	61
R10BDR	5/8	1-3/8	7/16	3/8, 1/2 Bore	855	85	68
R12DR	3/4	1-5/8	5/8		672	92	75
R16DR	1	2	3/4	1-1/4 Bore	583	127	110

Load & Speed calculations are for reference only. Testing in actual environmental conditions is recommended.

Radial Ball Bearings - Double Row - Metric Sizes

Catalog Number	ID		OD		Width		Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
	mm	inch	mm	inch	mm	inch			
5200	10	.393	30	1.181	14.28	.562	913	78	61
5201	12	.472	32	1.259	15.87	.625	913	78	61
5202	15	.590	35	1.378	15.87	.625	855	85	68
5203	17	.669	40	1.574	17.46	.687	855	85	68
5204	20	.787	47	1.850	20.63	.812	672	92	75
5205	25	.984	52	2.047	20.63	.812	583	127	110

Load & Speed calculations are for reference only. Testing in actual environmental conditions is recommended.

Radial Ball Bearings

Availability and Material Selection
Thermoplastic Raceways

Availability

Some bearings listed on data sheets may not be in inventory. Some may require a minimum order, and delivery could range from 3 to 6 weeks. Check with TECHNICOR for availability and delivery.

Material Selection

The majority of plastic bearings are produced with Acetal raceways and cages, and are fitted with 316 stainless balls. Acetal, (trade name Celcon® or Delrin®) is a general purpose engineering polymer used for mechanical components. Acetal is the first choice for plastic bearing races due to its chemical resistance, ease of molding/machining, and general affordability.

When Acetal doesn't work.

When Acetal is not the ideal choice, alternative materials are available to suit most requirements.

For: Increased Chemical Resistance	Use: Polypropylene, UHMW, Kynar®, Valox®
For: Higher Heat Capacity	Use: PEEK®, Vespel®, Valox®, 316 Stainless
For: Greater Strength	Use: Kynar®,Vespel®, 316 Stainless

Materials for races, cages and balls.

	Acetal	Polypro	Vespel®	PEEK®	Valox®	Kynar®	UHMW	Glass	SS316	SS302	Torlon®
Raceways	?	?	?	?	?	?	?				
Cages	?	?	?	?	?	?					
Balls	?							?	?	?	?

?-Standard race material ?-Special order, races & cage ?-Standard ball type ?-Special order, balls

Technical information listed is for reference only. Testing in actual environmental conditions is recommended.

Radial Ball Bearings

Availability and Material Selection
Thermoplastic Raceways

How to order/specify.			
Call or Fax TECHNICOR to check availability on a specific size and material. **Part number guide:**			
Prefix: Raceway Materials			
A = Acetal K = Kynar®	P = Polypropylene PK = PEEK®	SS = Stainless UH = UHMW - PE	V = Valox®
Suffix: Ball Type			
-2 = 302 Stainless -6 = 316 Stainless	-A = Acetal -P = PVC	-T = Torlon®	-GL = Glass
Example: AR4-6 = Standard R4 Bearing, Acetal races & cage, fitted with 316 Stainless Balls.			

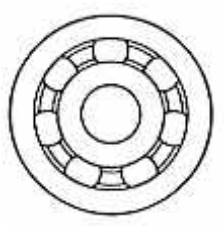
Standard Sizes

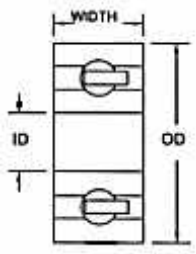
Plastic ball bearings are produced in many standard industrial sizes. These standards provide an opportunity to try a plastic ball bearing in an existing application or prototype. Customers with high volume quantities are encouraged to explore avenues that can utilize the many benefits of plastic, i.e: reduce number of parts and assembly time through product integration.

Value Engineering = Less Cost

Many times a bearing is mounted into another part, such as a plastic pulley, sprocket, wheel or mounted block. Utilizing the design concept of a *plastic ball bearing*, our design engineers can integrate the mating component as the raceway of the bearing, i.e: pulley as the outer ring, or the shaft as the inner ring. The end result is fewer parts, reduced assembly time, and overall lower cost.

316 Stainless Steel Ball Bearings - Single Row





Inch - Single Row

Catalog Number	ID	OD	Width	Optional Size	Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
SSR4	1/4	5/8	.196		2352	78	51
SSR4A	1/4	3/4	7/32		2352	78	51
SSR4AW	1/4	3/4	9/32		2352	78	51
SSR6	3/8	7/8	7/32		1600	126	99
SSR6A	3/8	7/8	9/32		1600	126	99
SSR8	1/2	1-1/8	1/4	5/8 Bore	1142	165	129
SSR8A	3/8	1-1/8	3/8	1/2 Bore	1142	165	129
SSR10B	5/8	1-3/8	7/16	3/8,1/2 Bore	1069	207	138
SSR12	3/4	1-5/8	5/16	7/16 Width	840	234	156
SSR16	1	2	1/2	1-1/4 Bore	729	276	183

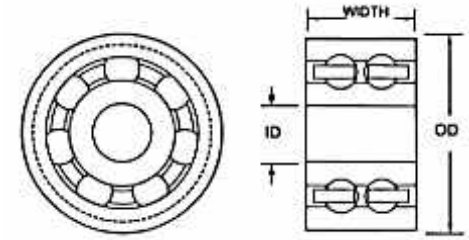
Metric - Single Row

Catagog Number	ID		OD		Width		Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
	mm	inch	mm	inch	mm	inch			
SS625	5	.196	16	.629	5	.196	2352	78	51
SS606	6	.236	17	.669	6	.236	2352	78	51
SS608	8	.315	22	.866	7	.275	1600	126	99
SS6000	10	.393	26	1.023	8	.315	1600	126	99
SS6001	12	.472	28	1.102	8	.315	1142	165	129
SS6002	15	.590	32	1.259	9	.354	1142	165	129
SS6003	17	.669	35	1.378	10	.397	1069	207	138
SS6004	20	.787	42	1.653	12	.472	840	234	156
SS6005	25	.984	47	1.850	12	.472	729	234	156
SS6200	10	.393	30	1.181	9	.354	1142	165	129
SS6201	12	.472	32	1.259	10	.393	1142	165	129
SS6202	15	.590	35	1.378	11	.433	1069	207	138
SS6203	17	.669	40	1.574	12	.472	1069	207	138
SS6204	20	.787	47	1.850	14	.551	840	234	156
SS6205	25	.984	52	2.047	15	.590	729	276	183

Load & Speed calculations are for reference only. Testing in actual environmental conditions is recommended.

TECHNICOR

316 Stainless Steel Ball Bearings - Double Row



Inch - Double Row

Catalog Number	ID	OD	Width	Optional Size	Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
SSR4DR	1/4	5/8	3/8		1881	117	76
R4ADR	1/4	3/4	3/8		1881	117	76
SSR6DR	3/8	7/8	7/16		1280	189	148
SSR8DR	1/2	1-1/8	7/16	3/8 Bore	913	234	183
SSR10BDR	5/8	1-3/8	7/16	3/8, 1/2 Bore	855	255	204
SSR12DR	3/4	1-5/8	5/8		672	276	225
SSR16DR	1	2	3/4	1-1/4 Bore	583	381	330

Metric - Double Row

Catalog Number	ID		OD		Width		Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
	mm	inch	mm	inch	mm	inch			
SS5200DR	10	.393	30	1.181	14.28	.562	913	234	183
SS5201DR	12	.472	32	1.259	15.87	.625	913	234	183
SS5202DR	15	.590	35	1.378	15.87	.625	855	255	204
SS5203DR	10	.669	40	1.574	10.46	.687	855	255	204
SS5204DR	20	.787	47	1.850	20.63	.812	672	276	225
SS5205DR	25	.984	52	2.047	20.63	.812	583	381	330

Load & Speed calculations are for reference only. Testing in actual enviromental conditions is recommended.

Radial Ball Bearings

Availability and Material Selection
SS316 Stainless Raceways

General Information

A SS316 stainless ball bearing should only be used when a conventional SS440 stainless or a plastic ball bearing is unsuitable. Reasons for use are:

- Environment corrodes SS440.
- Needs to be non-magnetic.
- Can run without lube (slow speeds).
- Hygienic
- Excessive load for Plastic ball bearing.
- Can run in liquids.
- FDA & NSF approved materials.
- Can run in high temperature (without cage)

Availability

Some bearings listed on data sheets may not be in inventory. Some may require a minimum order, and delivery could range from 3 to 6 weeks.

Material Selection

Stainless bearings are produced from a SS316 grade stainless for raceways and balls. SS316 stainless has superior corrosion resistance. SS316 stainless is used extensively in food, medical and hostile chemical environments. It has a better corrosion resistance than conventional SS440 stainless.

Value Engineering = Less Cost

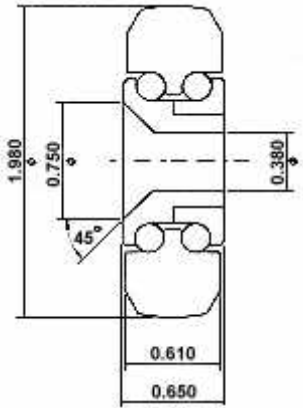
Only a SS316 stainless ball bearing can offer you value that far exceeds its steel or SS440 counter-part. True value is provided by extending bearing life and offering qualities of being non-magnetic and non-contaminating in food, medical and photo environment. Evolve from your standard steel bearing to a plastic or SS316 stainless bearing by giving us a call. We will analyze your application and find your true value solution.

CUSTOM ORDERS ACCEPTED FOR LOW AND HIGH VOLUMES

Corrosion Resistant • Lube Free • Hygienic • Non-Metallic • Non-Magnetic • Light Weight • Design Flexibility

TECHNICOR

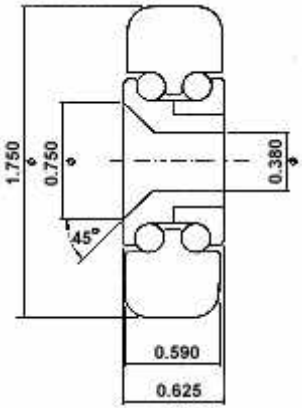
Thermoplastic Poultry Conveyor Wheels



Medium - Duty Wheel

Catalog Number: CW0600/CW0032

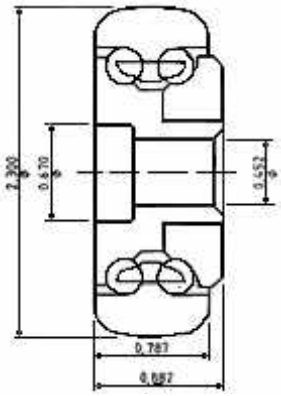
Used on round pipe systems.
Medium-duty poultry wheels have been tried and tested over 15 years.
The race materials are acetal.
Balls are SS400 series
Load Capacity: 130 lbs.



Medium - Duty Wheel

Catalog Number: AF6 DWM / 2Y/D

Used on round pipe systems.
Medium-duty poultry wheels have been tried and tested over 15 years.
The race materials are acetal.
Balls are SS400 series
Load Capacity: 130 lbs.



Medium - Duty Wheel

Catalog Number: AC115MDW584

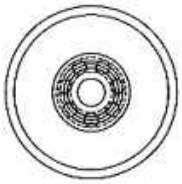
Designed for 3” I-Beam/X348 chain conveyors, this is a medium-duty wheel. Materials meet USDA requirements. Major benefits are its high load capacity, low friction, corrosion resistance, quiet operation, low maintenance, and freedom from lubrication.
Load Capacity: 155 lbs.

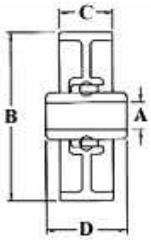
Thermoplastic Poultry Conveyor Wheels

Catalog Number	Colour	System	Ref P/N	Notes
AC82MDW490 PW	Green	Meyn T-track	0990T02200013 Green	PW = beveled countersink
D5166	Green	Meyn T-track		Plastic yoke & wheel assembly (AC82MDW490 w/yoke)
AC82MDW513 PW	Dark Blue	Stork T-track	4R560633 Light blue	PW = beveled countersink SH = stepped countersink
D5167	Dark Blue	Stork T-track		Plastic yoke & wheel assembly (AC82MDW513 w/yoke)
AC82MDW495 LCO	Light Blue	Linco T-track		
AF8 MDWL	Dark Blue	Linco		
CW0600/CW0032	Yellow	Johnson Pipe track		Replaces AF6 DWGJS (see pg. 2-j)
AF6 DWM	Yellow	Johnson Pipe track		(see pg. 2 - j)
AC115MDW584SH	Grey	X-348	4R582335	Medium duty caged wheel (see pg. 2-j)
D-5165	Yellow	Johnson Pipe track		SS inner; same outer ring as CW0600/CW0032 (pg. 2-j)
D-5013	Grey			

Skatewheel Ball Bearing

Plastic Raceways - Single Row





Catalog Number	A	B	C	D	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
SW250	1/4	1.9	5/8	15/16	40	34
SW312	5/16	1.9	5/8	15/16	40	34

General Information

Plastic skatewheels feature a free-turning ball bearing construction. When fitted with 316 stainless balls it is corrosion resistant, no-lube, and maintenance free. **Additional benefits include:**

- **Wider contact surface - better tracking**
- **Lighter weight than standard steel skatewheels**
- **Can wash down - no rusting**
- **Freer-turning**
- **No lube required**
- **Non-marking**
- **Hygienic**

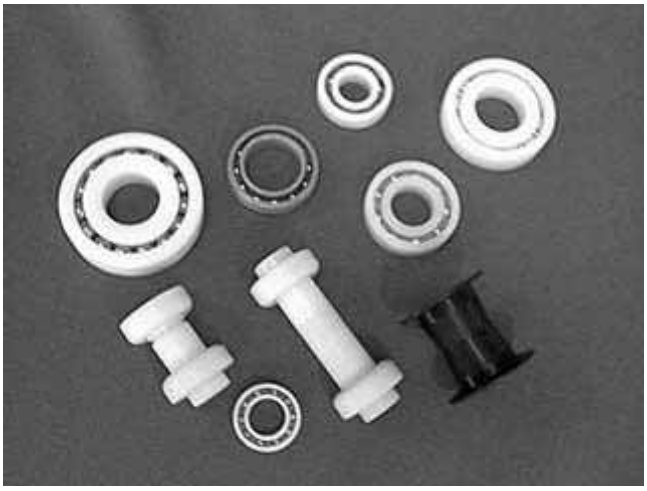
Material Selection

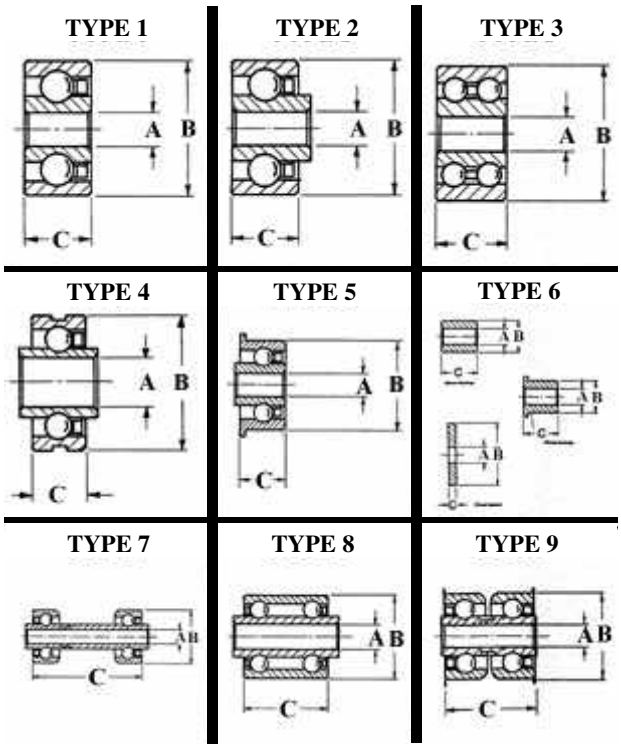
	Acetal	Polypropylene	SS316 stainless	SS302 stainless	Carbon Chrome
Races	?	?			
Balls	?	?	?	?	?

? = Standard material for races
? = Special order for races

? = Standard balls
? = Special order

Film Processing Bearings





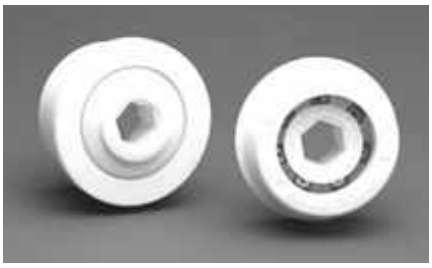
Film Processing bearings are available in a variety of types (see table) and materials. They are generally made for specific machines including: PAKO, Kodak, Hostert, Agfa, and others. Contact TECHNICOR for details.

Other Thermoplastic Ball Bearings

Ball Bearing Pulleys

Contact TECHNICOR for details.

Angular Contact Ball Bearings



Conveyor End Bearings

Catalog section 3

Ball Bearing Inserts

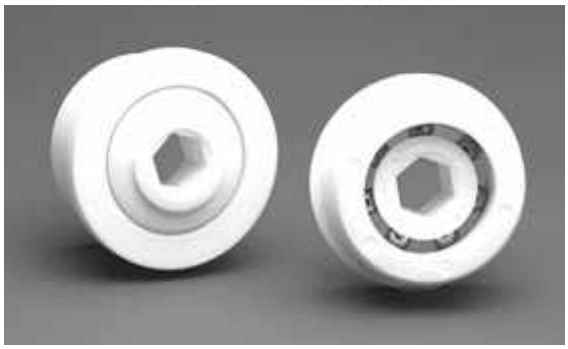
Catalog section 4

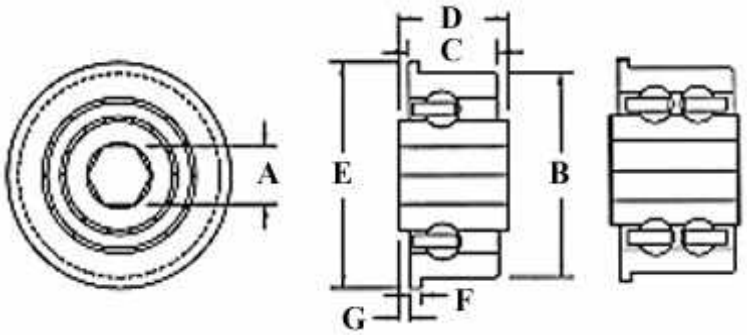
CUSTOM ORDERS ACCEPTED FOR LOW AND HIGH VOLUMES

Corrosion Resistant • Lube Free • Hygienic • Non-Metallic • Non-Magnetic • Light Weight • Design Flexibility

Conveyor Ball Bearings

Plastic Raceways - Single & Double Row - Hex Bore





Single Row

Catalog Number	A hex	B	C	D	E	F	G	Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
CB312-1.0SR	5/16	1.0	.37	.46	1.12	.06	.06	1600	42	33
CB437-1.5SR	7/16	1.50	.70	.93 or .60	1.56	.10	.12	1069	69	46
CB437-1.6SR	7/16	1.60	.70 or 1.10	.93 or .60	1.80	.10	.12	1069	69	46
CB437-1.75SR	7/16	1.75	1.10	.93 or .60	1.83	.10	.12	1069	69	46
CB437-1.78SR	7/16	1.78	1.10	.93 or .60	1.86	.10	.12	1069	69	46
CB437-1.87SR	7/16	1.87	.70	.93 or .60	2.00	.10	.12	1069	69	46
CB437-2.05SR	7/16	2.056	.70	.93 or .60	2.32	.10	.12	729	92	61
CB687-2.05SR	11/16	2.056	.70	.93 or .60	2.32	.10	.12	729	92	61
CB437-2.26SR	7/16	2.260	.70	.93 or .60	2.37	.10	.12	729	92	61
CB687-2.26SR	11/16	2.260	.70 or 1.10	.93 or .60	2.37	.10	.12	729	92	61

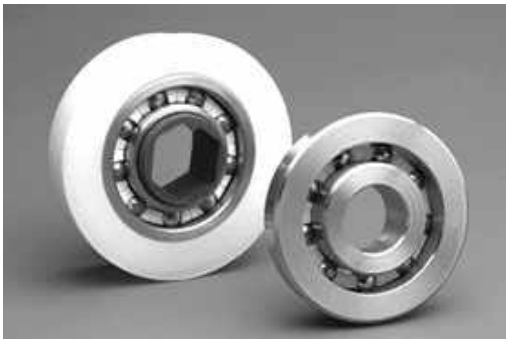
Double Row

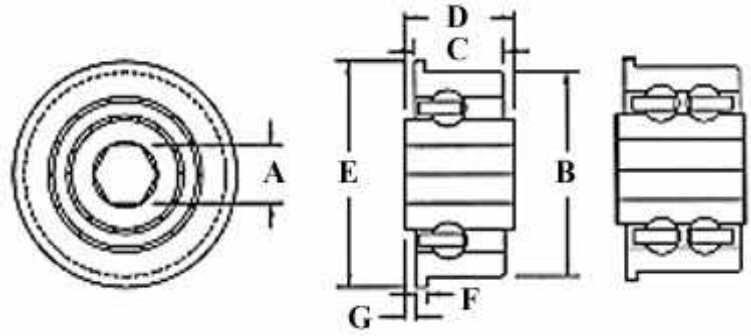
Catalog Number	A hex	B	C	D	E	F	G	Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
CB312-1.0DR	5/16	1.0	.37	.46	1.12	.06	.06	1280	60	43
CB437-1.5DR	7/16	1.50	.70	.93	1.56	.10	.12	855	85	68
CB437-1.6DR	7/16	1.60	.70 or 1.10	.93	1.80	.10	.12	855	85	68
CB437-1.75DR	7/16	1.75	1.10	.93	1.83	.10	.12	855	85	68
CB437-1.78DR	7/16	1.78	1.10	.93	1.86	.10	.12	855	85	68
CB437-1.87DR	7/16	1.87	.70	.93	2.00	.10	.12	855	85	68
CB437-2.05DR	7/16	2.056	.70	.93	2.32	.10	.12	672	110	93
CB687-2.05DR	11/16	2.056	.70	.93	2.32	.10	.12	672	110	93
CB437-2.26DR	7/16	2.260	.70	.93	2.37	.10	.12	672	110	93
CB687-2.26DR	11/16	2.260	1.10	.93	2.37	.10	.12	672	110	93

TECHNICOR

Conveyor Ball Bearings

316 Stainless Raceways - Single & Double Row





Single Row

Catalog Number	A hex	B	C	D	E	F	G	Max RPM (no load)	Load Capacity Dynamic (lbs)	Load Capacity Static (lbs)
SSCB312-1.0SR	5/16	1.0	.37	.46	1.12	.06	.06	1600	126	99
SSCB437-1.5SR	7/16	1.50	.70	.93 or .60	1.56	.10	.12	1069	207	138
SSCB437-1.6SR	7/16	1.60	.70 or 1.10	.93 or .60	1.80	.10	.12	1069	207	138
SSCB437-1.75SR	7/16	1.75	.70 or 1.10	.93 or .60	1.83	.10	.12	1069	207	138
SSCB437-1.78SR	7/16	1.78	.70 or 1.10	.93 or .60	1.86	.10	.12	1069	207	138
SSCB437-1.87SR	7/16	1.87	.70	.93 or .60	2.00	.10	.12	1069	207	138
SSCB437-2.05SR	7/16	2.056	.70	.93 or .60	2.32	.10	.12	840	234	156
SSCB687-2.05SR	11/16	2.056	.70	.93 or .60	2.32	.10	.12	840	234	156
SSCB437-2.26SR	7/16	2.260	.70	.93 or .60	2.37	.10	.12	840	234	156
SSCB687-2.26SR	11/16	2.260	.70 or 1.10	.93 or .60	2.37	.10	.12	840	234	156

Double Row

Catalog Number	A hex	B	C	D	E	F	G	Max RPM (no load)	Load Capacity Dyn (lbs)	Load Capacity Static (lbs)
SSCB312-1.0DR	5/16	1.0	.37	.46	1.12	.06	.06	1280	189	148
SSCB437-1.5DR	7/16	1.50	.70	.93	1.56	.10	.12	855	255	204
SSCB437-1.6DR	7/16	1.60	.70 or 1.10	.93	1.80	.10	.12	855	255	204
SSCB437-1.75DR	7/16	1.75	.70 or 1.10	.93	1.83	.10	.12	855	255	204
SSCB437-1.78DR	7/16	1.78	.70 or 1.10	.93	1.86	.10	.12	855	255	204
SSCB437-1.87DR	7/16	1.87	.70	.93	2.00	.10	.12	855	255	204
SSCB437-2.05DR	7/16	2.056	.70	.93	2.32	.10	.12	672	276	225
SSCB687-2.05DR	11/16	2.056	.70	.93	2.32	.10	.12	672	276	225
SSCB437-2.26DR	7/16	2.260	.70	.93	2.37	.10	.12	672	276	225
SSCB687-2.26DR	11/16	2.260	.70	.93	2.37	.10	.12	672	276	225

Conveyor Ball Bearings

Plastic & 316 Stainless Raceways - Single & Double Row

General Information

Conveyor type ball bearings can be used in standard industrial tube and pipe sizes for use in conveyor systems. Reasons for use are:

- Corrosion resistance
- Free turning
- No lubricants needed
- Light weight
- Low start up torque - means lower conveyor incline angles
- Hygienic
- Run in liquids
- Quiet running

Why use 316 Stainless race type?

When you need the benefits of plastic race type, but require higher load capacity.

Availability

Some bearings listed on data sheets may not be in inventory. Some may require a minimum order, and delivery could range from 3 to 6 weeks. Consult TECHNICOR for item availability and delivery.

Material Selection

The majority of Conveyor ball bearings are produced with either polypropylene or 316 stainless races. They are cage type and are fitted with 316 Stainless balls. Polypropylene is a general purpose conventional plastic widely used for components in wet and hostile environments, while conforming to FDA, NSF, and UL Standards. AISI 316 stainless is a food and medical grade of stainless.

Alternate materials are available. Consult TECHNICOR for availability.

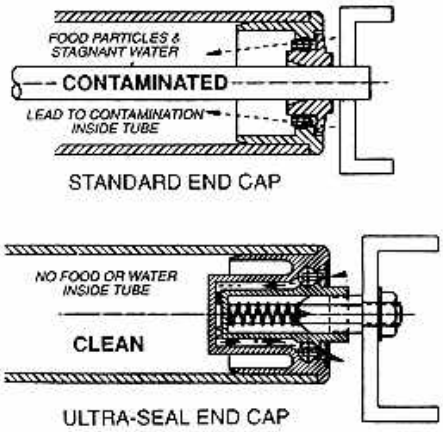
Guide for Choosing Bearing Size to Tube/Pipe

TUBE SIZE AND DESCRIPTION	BEARING SELECTIONS
1" PVC, 1" ID x 1.315 O.D., 1" PVC, Schedule 40.	CB312-1.0
1-1/2 Schedule 80 PVC (.200 wall thickness)	CB437-1.5
1-1/2 Schedule 40 PVC (.150 wall thickness) 1.9 Steel, 9 gauge (9 gauge = .148 wall)	CB437-1.6, Ultra-Seal #D-2077
2.0 Steel, 12 gauge (12 gauge = .109 wall)	CB437-1.78
2.0 Steel (16 gauge = .065 wall thickness)	CB437-1.87
2.0 PVC, Schedule 40 (.150 wall thickness)	CB437-2.05, CB687-2.05, Ultra-Seal #D-5009
2 1/2 Steel, 11 gauge (.120 wall thickness)	CB437-2.26, CB687-2.26

This bearing and tube guide is intended to be a practical guide for selection. Consult tube/pipe manufacturer for actual dimensions held in production lots.

Thermoplastic ULTRA-SEAL Conveyor Rollers

Complete PVC conveyor rollers can be supplied quickly in a variety of lengths and two standard diameters: 1.90" and 2.375" OD.
Standard bearings are **ULTRA SEAL** food-grade type.
Use of these **ULTRA SEAL** conveyor rollers entirely eliminates the need for stainless steel axles and avoids the possibility of bacteria build-up inside the conveyor roller tube. Standard roller PVC colour is grey, but white can be supplied on request. High operating temperatures require the use of CPVC roller material.

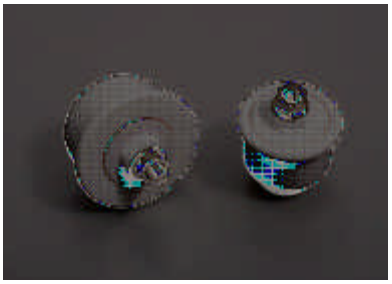


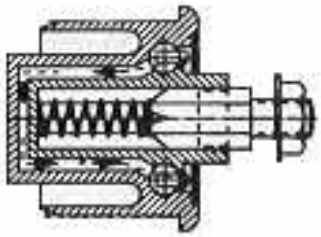
ULTRA SEAL food-grade bearings have components entirely made of acetal thermoplastic and stainless steel. They are supplied complete with SS hardware: M8 threaded spring-loaded stub shaft (5/16" dia.; spring, washer, and nut. To adapt the **ULTRA-SEAL** threaded shaft to existing 7/16" hex frames, use adapter washer **P/N 12 SWS 3001** which centers the stub shaft in the hexagonal opening. This washer is supplied with every **ULTRA-SEAL** bearing.
Recommended max roller length: 24"

To order **ULTRA-SEAL** PVC conveyor rollers specify: roller OD; and length between frames (BFR)
Example: USPVC-1.90/18"BFR

More conventional PVC rollers (with or without hex shafts) and plastic or SS316 bearings can also be supplied as a special order. For standard conveyor end bearings, see **Catalog pages 3-a/b.**

ULTRA-SEAL Conveyor End Bearings





ULTRA SEAL conveyor end bearings are "blind" ball bearings to prevent bacteria build-up inside the conveyor roller tube. They are designed especially for the food industry. Popular sizes fit into standard PVC pipe and come complete with stainless steel hardware (spring-loaded 5/16" dia M8 threaded stub shaft; washer; nut), ready for installation. For other conveyor end bearings, see **Catalog pages 3-a/b.**

ULTRA-SEAL Catalog Number	Engagement Diameter	Flange Dia.	Tube/Pipe	Load Capacity (lbs)	Ref. Open Brg
D - 2077	1.610/1.614	1.850/1.854	1 1/2" PVC Sched 40 I.D = 1.61 O.D. =1.90 NOM	55	CB437-1.6 SSCB437-1.6
D - 5009	2.061/2.065	2.356/2.368	2" PVC Sched 40 I.D. = 2.06 O.D. = 2.375 NOM	55	CB437-2.05 SSCB437-2.05 CB687-205 SSCB687-205

Additional sizes of ULTRA-SEAL bearings are available to suit various tube/pipe sizes. Contact TECHNICOR for more details.

Thermoplastic Bearing Housings

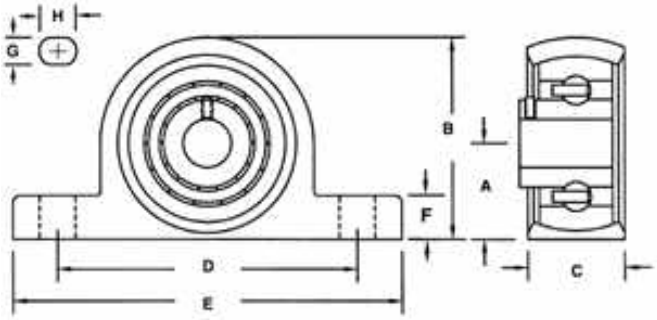
Molded bearing housings are made of high-grade glass-filled white polyester (Valox®). They are dimensionably interchangeable with conventional cast-iron housings. They do not rust or corrode. These housings are ideal for the food and food handling industries where high standards of cleanliness are essential.

Molded housings are standard-size units which accept standard-size insert ball bearings. Tensile strength at break (ASTM 638) is an impressive 17,300 psi. The housings can be cleaned or hosed down with hot water, and will operate intermittently at temperatures to 420ºF. All housings have bases and backing surfaces that are solid, i.e. free of voids where bacteria might otherwise accumulate. Mounting holes do not incorporate stainless steel rings, as loading is normally light to medium. Because these housings are normally fitted with plastic, SS316, or greased-for-life bearings, they do not incorporate grease grooves or grease fittings.

For bearing inserts see pages 4-c/d

Custom-machined housings available upon request

PPL Pillow Blocks

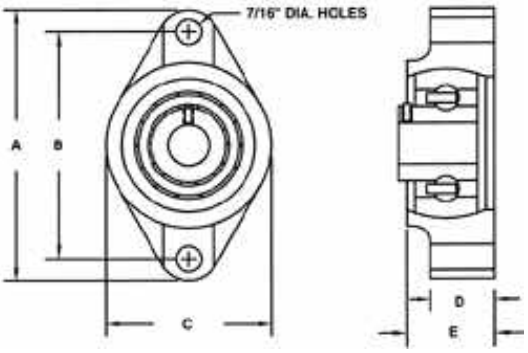


Catalog Number	Insert Bearing			Dimensions (mm)							
	Bores		OD								
	mm	Inch		A	B	C	D	E	F	G	H
PPL 204	12, 15, 17, 20	1/2, 9/16, 5/8, 3/4 11/16, 3/4	1.850”	33.3	65	38	95	127	14.2	11	14
PPL 205	25	3/4, 7/8, 15/16, 1	2.047”	36.5	71	38	105	140.5	14.5	11	14
PPL 206	30	1-1/16, 1-1/8, 1-3/16, 1-1/4	2.441”	42.9	84	46	119	163	17.8	14	18

For UHMW insert information, see page 1-c; for all available insert bearings see pages 4c/d

Thermoplastic Bearing Housings

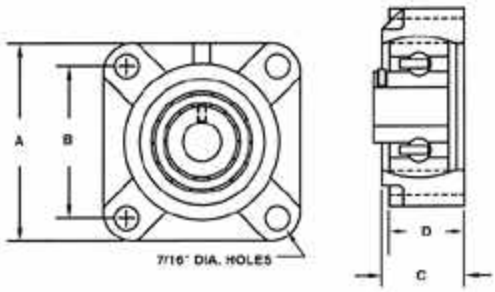
NFL 2-Bolt Flange



Catalog Number	Insert Bearing Bores mm	Insert Bearing Bores Inch	Insert Bearing OD	Dimensions (mm) A	B	C	D	E
NFL 204	12, 15, 17, 20	1/2, 9/16, 5/8, 11/16, 3/4	1.850”	113	90	64	11.4	26.5
NFL 205	25	3/4, 7/8, 15/16, 1	2.047”	131	99	69.5	13.5	29.1
NFL 206	30	1-1/16, 1-1/8, 1-3/16, 1-1/4	2.441”	148	117	80	13.3	30.5

For UHMW insert information, see page 1-c; for all available insert bearings see pages 4-c/d

FPL 4-Bolt Flange



Catalog Number	Insert Bearing Bores mm	Insert Bearing Bores Inch	Insert Bearing OD	Dimensions (mm) A	B	C	D
FPL 204	12, 15, 17, 20	1/2, 9/16, 5/8, 11/16, 3/4	1.850”	86	63.5	27.8	13.4
FPL 205	25	3/4, 7/8, 15/16, 1	2.047”	95	70	28	14.0
FPL 206	30	1-1/16, 1-1/8, 1-3/16, 1-1/4	2.441”	107	83	31.5	14.3

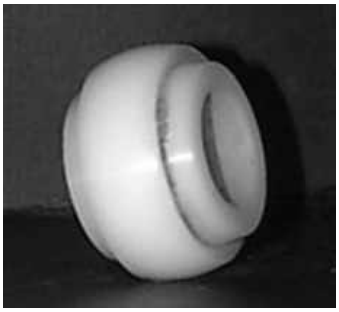
For UHMW insert information, see page 1-c; for all available insert bearings see pages 4-c/d

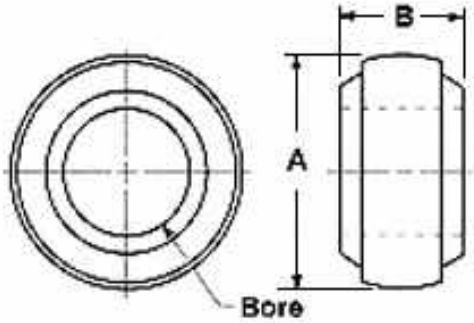
Insert Bearings

Most bearing failures today are caused by corrosion. Thermoplastic or SS316 ball bearings can be utilized in environments destructive to conventional bearings. They can operate in hostile environments such as sea water, film processing solutions, swimming pools, and in many cases the medium can be used as lubricant.

Thermoplastic Solid UHMW Inserts

UHMW self-aligning inserts are designed to replace a self-aligning ball bearing or roller bearing having a spherical O.D. They are for use in standard housings. These inserts fit standard pillow blocks and flange units. Made of USDA/FDA-approved material, these inserts are ideal in the food and packaging industry. Self-aligning capabilities are the same as metal inserts. **FOR STAINLESS STEEL INSERTS SEE PAGE 4-d**
Other thermoplastic inserts, with higher load ratings, are available on request.



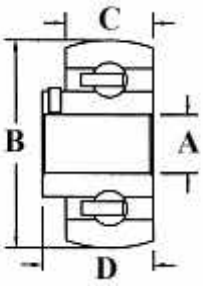


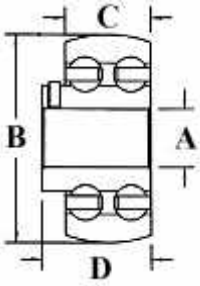
Catalog Number	Bore	Housing Reference	A	B	Max Speed (RPM)	Max. Load (lbs)
PI - 1/2	1/2	204	1.850	1.024	350	200
PI - 5/8	5/8				275	233
PI - 3/4-204	3/4				225	333
PI - 3/4-205	3/4	205	2.047	1.182	225	333
PI - 7/8	7/8				200	400
PI - 1	1				175	466
PI - 1-1/4	1-1/4	206	2.441	1.418	125	733

See Page 1-c for additional sizes

Thermoplastic Ball Bearing Inserts

Standard materials:
Raceways - Acetal
Balls - SS316



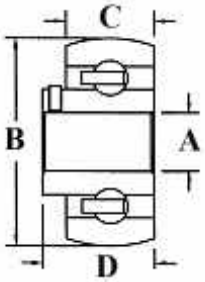


Catalog Number	A	B	C	D	Max RPM (no load)		Load Capacity (lbs)			
					Single Row	Double Row	Single Row		Double Row	
							Dynamic	Static	Dynamic	Static
IB-204-1/2	1/2	1.850	.591	.950	840	672	78	52	117	104
IB-204-5/8	5/8	1.850	.591	.950	840	672	78	52	117	104
IB-204-3/4	3/4	1.850	.591	.950	840	672	78	52	117	104
IB-205-3/4	3/4	2.047	.709	1.060	729	583	92	61	138	92
IB-205-7/8	7/8	2.047	.709	1.060	729	583	92	61	138	92
IB-205-1	1	2.047	.709	1.220	729	583	92	61	138	92
IB-206-1-1/4	1-1/4	2.441	.709	1.220	525	552	151	114	189	142

Insert Bearings

Most bearing failures are caused by corrosion. Thermoplastic or SS316 ball bearings can be utilized in environments destructive to conventional bearings. They can operate in hostile environments such as sea water, film processing solutions, swimming pools, and in many cases the medium can be used as lubricant.

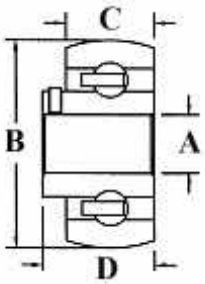
316 Stainless Inserts - Single Row



Catalog Number	A	Housing Size Ref	B	C	D	Max RPM (no load)	Load Capacity (lbs)	
							Dynamic	Static
SSIB-1/2	1/2	204	1.850	.591	.950	840	234	156
SSIB-5/8	5/8	204	1.850	.591	.950	840	234	156
SSIB-3/4	3/4	204	1.850	.591	.950	840	234	156
SSIB-5/8L	5/8	205	2.047	.709	1.060	729	276	183
SSIB-3/4L	3/4	205	2.047	.709	1.060	729	276	183
SSIB-1	1	205	2.047	.709	1.060	729	276	183
SSIB-1-1/8	1-1/8	206	2.441	.709	1.220	690	378	285
SSIB-1-1/4	1-1/4	206	2.441	.709	1.220	690	378	285
SSIB-1-3/16	1-3/16	206	2.441	.709	1.220	690	378	285

SS316 inserts are unground, unsealed, unshielded ball bearings. Excellent for applications requiring free-wheeling, corrosion-free performance.

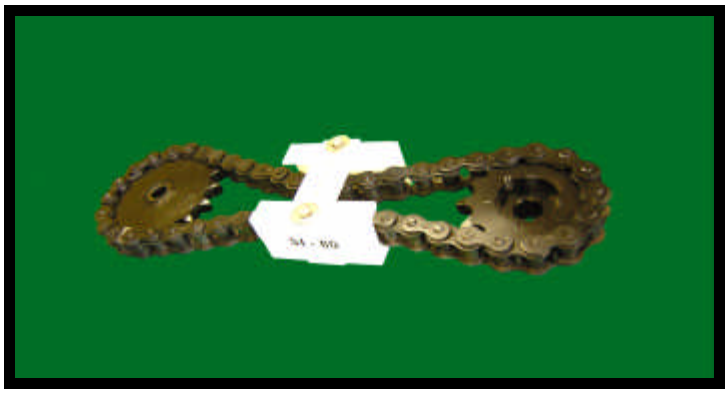
440 Stainless Inserts - Single Row



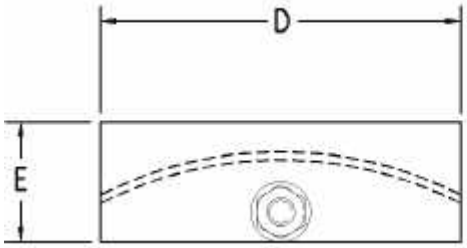
Catalog Number	A	B	C	D	Load Capacity (lbs)	
					Dynamic	Static
SS440IB-3/4	3/4	1.850	.67	1.22	2200	1500
SS440IB-3/4L	3/4	2.047	.67	1.34	2400	1750
SS440IB-7/8	7/8	2.047	.67	1.34	2400	1750
SS440IB-1	1	2.047	.67	1.34	2400	1750
SS440IB-1-1/4	1 1/4	2.441	.75	1.50	3400	2550

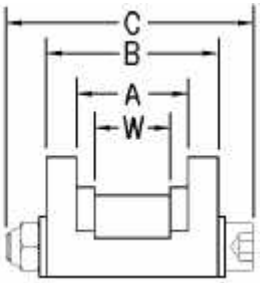
SS440 inserts are precision ground ball bearing inserts. Raceways and balls are made of Martensitic stainless steel SS440. They can be supplied with USDA-approved food grease (Suffix L458).

SI Series Chain Tensioners



SI SERIES is an innovative concept that tensions, guides, controls, and absorbs shock on single and multiple-strand chain drives. It increases chain life and dramatically increases sprocket life. SI floats on the chain drive itself, requires no mounting devices or installation tools, and demands no maintenance. It tensions almost any drive at a fraction of the cost of traditional idling or tensioning systems. Reversing drives are particularly suitable. Drive widths through 20 inches are available from stock. Temperatures over 200°F can be accommodated using SI-HT high temperature units. Timber processing, steel mills, automotive assembly plants, agricultural machinery and many other chain drive applications have found SI SERIES to answer drive problems economically and efficiently.





	Catalog Number	A	B	C over bolts	W	D	E	Weight (lbs)
Single Bolt	SI-35							
	SI-40	0.93	1.53	2.67	.62	3.00	1.00	0.50
	SI-50	1.12	1.70	2.87	.75	3.50	1.00	0.62
	SI-60	1.37	1.95	3.12	1.06	4.00	1.00	1.00
	SI-80	1.75	2.34	3.75	1.31	4.50	1.00	1.25
	SI-100	2.06	2.66	4.05	1.56	5.00	1.00	1.87
	SI-120	2.68	3.42	4.81	2.06	5.50	1.50	2.43
Dual Bolt	SI-140	2.68	3.42	4.81	2.06	5.50	1.50	2.81
	SI-160	3.12	3.85	5.24	2.43	6.50	1.50	4.00
	SI-180	3.43	4.21	5.60	2.62	7.00	1.50	4.37
	SI-200	4.15	4.64	5.98	3.06	7.50	2.50	7.43
	SI-240	5.25	6.00	7.34	4.18	8.00	2.50	8.56

STANDARD SERIES - all SI designs are of the narrow profile, space-saver design, i.e. straps are recessed in the sides of the wear blocks and are secured by SS hardware: bolts, washers, and nyloc nuts.

Sizes SI-140 and larger use two bolts per unit and double-width straps. Proper bolt torque is important and should be between 80 in.lb. MIN and 100 in.lb. MAX .

SI Series Chain Tensioners

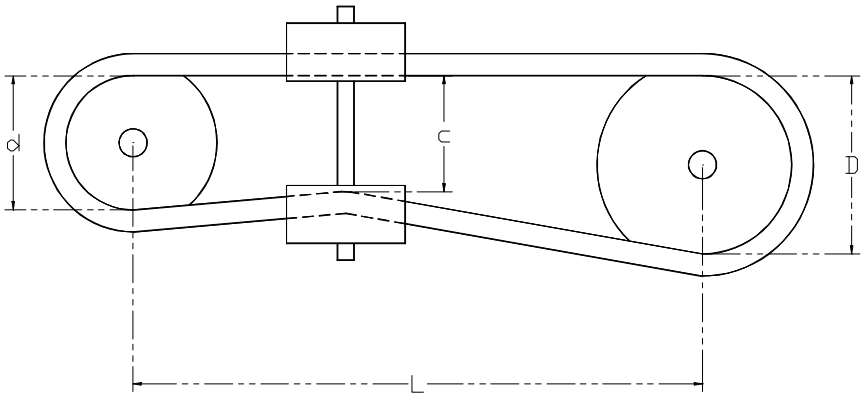
Selection

Catalog Number	Fits ANSI Chain Number
SI-25	25
SI-35	35
SI-40	25-2, 41, 40, 52
SI-50	35-2, 50
SI-60	40-2, 35-3, 60
SI-80	50-2, 35-4, 80
SI-100	60-2, 40-3, 76, 100
SI-120	80-2, 50-3, 40-4, 120
SI-140	140
SI-160	50-4, 40-5, 160

Catalog Number	Fits ANSI Chain Number
SI-180	60-3, 180, 100-2
SI-200	120-2, 80-3, 60-4, 50-5, 40-6, 200
SI-240	140-2, 160-2, 100-3, 80-4, 60-5, 50-6, 240
SI-300 (*)	180-2, 200-2, 240-2, 120-3, 140-3, 160-3, 100-4, 120-4, 140-4, 80-5, 100-5, 60-6, 80-6, 60-8
SI-400 (*)	200-3, 240-3, 160-4, 200-4, 120-5, 140-5, 160-5, 100-6, 120-6, 140-6, 80-8, 100-8, 180-3, 180-4
SI-500 (*)	240-4, 160-6, 120-8, 140-8, 180-5
SI-600 (*)	180-6, 200-6, 240-5, 160-8

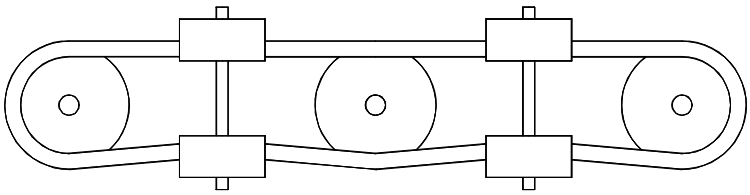
*When ordering SI-300 or larger, specify manufacturer and details of chain
*For SI-300 and larger, standard straps are galvanized steel, 48” long

Application Design Parameters



The successful application of SI tensioners depends on the configuration and design parameters of the drive. A steep angle is created when the sprocket ratio is too large, making it difficult for the tensioner to function properly. A shorter center distance between sprockets will further aggravate this condition. It is therefore important to adhere to the criteria below. For conditions outside of these parameters, certain modifications to the product are possible. Please contact **TECHNICOR** for technical help.

D/d = sprocket ratio < 4
D/L = drive aspect ratio < 0.5
c/d = constant ratio < 0.85



Ensure components are free from obstruction - Do not install on drive while moving

SI Series Chain Tensioners

Types

SI Series Standard

- chain speeds: 800 fpm dry
  1800 fpm drip lube
  2500 fpm oil bath
- temperature: -40°F to 200°F
- profile: straps are recessed to minimize bolts protrusions
- width: ideal where chain guards restrict space
- material: Ultra High Molecular Weight Polyethylene (UHMW)

SI-HT High Temperature

- Temperature: 200°F to 450°F
- material: TEFLON® wear blocks with with steel straps

SI-XH Extra Heavy

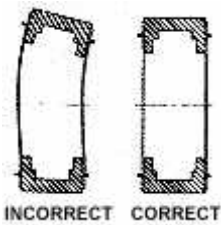
- for very dry, abrasive, gritty, dusty environments or very high chain speeds
- temperature: -40°F to 200°F
- material: SYNSTEEL® wear blocks

SI-SL Self Lube

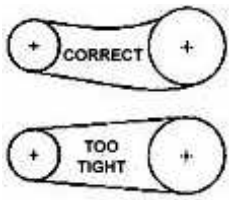
- top wear-block is made of oil-filled UHMW
- provides lubrication to the roller chain
- bottom wear block is standard UHMW

To order: example, Narrow Series SI for ANSI#80 chain, order Catalog Number SI-80-N

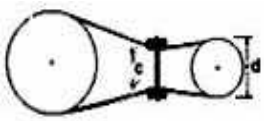
Installation



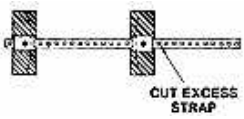
The two wear blocks should be parallel to each other and the two straps of equal length.
The SI tensioner should not be installed tightly; that is, it should be free to move or slide on the chain easily after assembly.



Since the SI tensioner produces chain tension, the chain should not be tight before installation takes place. It may be necessary to slacken the chain or add links.



Note that the SI block distance "C" must be less than the smaller sprocket diameter "d"
(see **Selection Criteria** on pg. 5-b)



The excess strap material should be removed after installation to prevent interference or binding on chain guard.

There should be adequate clearance all around the SI tensioner. This is to prevent it from catching on equipment. If necesary, cut off excess bolt thread.

Ensure components are free from obstruction - Do not install on drive while moving

SI Material - UHMW-VIR Chemical and Abrasion Resistance

CHEMICAL RESISTANCE

Test specimens ..... dumb-bell type
Duration of test ..... 30 days
A = resistant ..... mechanical properties not appreciably affected
B = limited resistance ..... decrease in yield stress and ultimate tensile strength less than 20%
C = not resistant ..... decrease in yield stress and ultimate tensile strength greater than 20%

REAGENT	Temperature 20°C	50°C	80°C
I. Inorganic Acids			
Chromic Acid (80%)	A	A	B
Hydrochloric Acid (conc.)	A	A	A
Hydrocyanic Acid	A	A	
Hydrofluoric Acid	A	A	
Nitric Acid (conc.)	C	C	C
Nitric Acid (50%)	B	C	C
Nitric Acid (20%)	A	A	B
Phosphoric Acid (85%)	A	A	A
Sulphuric Acid (conc.)	A	C	C
Sulphuric Acid (75%)	A	B	B
II. Alkalis			
Aqueous Ammonia	A	A	
Potassium Hydroxide Solution	A	A	A
Sodium Hydroxide Solution	A	A	A
III. Aqueous Solutions of Inorganic Salts			
Aluminum Chloride	A	A	A
Ammonium Nitrate	A	A	A
Bleaching Powder	A	A	A
Calcium Chloride	A	A	A
Sodium Carbonate	A	A	A
Sodium Chloride	A	A	A
Sodium Hypochlorite	A	A	A
Zinc Chloride	A	A	A
IV. Organic Acids			
Acetic Acid (99%)	A	A	B
Acetic Acid (10%)	A	A	A
Butyric Acid	A	A	
Citric Acid	A	A	A
Formic Acid	A	A	
Oleic Acid	A	A	B

REAGENT	Temperature 20°C	50°	80°C
V. Hydrocarbons & Halogenated Hydrocarbons			
Benzene	B	B	
Carbon Tetrachloride	B		
Cyclohexane	A	A	
Dichloroethylene	C	C	
Diesel Oil	A	A	B
n-Heptane	A		
Petroleum Ether	A		
Trichloroethylene	B	C	
Toluene	B	C	
White Spirit	A	B	
Xylene	B	B	C
VI. Alcohols, Ketones, Ester & Amines			
Acetone	A	A	
Aniline	A	A	B
Benzyl Alcohol	A	A	A
Butyl Alcohol	A	A	
Cyclohexanol	A	A	A
Ethanol	A	A	
Ethyl Acetate	A	A	
Ethylene Glycol	A	A	A
Glycerine	A	A	A
Lauryl Alcohol	A	A	A
Propyl Alcohol	A	A	A
VII. Miscellaneous			
Beer/Wine	A	A	A
Detergents in Aqueous Solution	A	A	A
Distilled Water	A	A	A
Hydrogen Peroxide 30% (Perhydrol)	A	A	
Linseed Oil/Olive Oil	A	A	A
Milk	A	A	A
Sea Water	A	A	A

The information contained herein is, to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. We disclaim any liability incurred in connection with the use of these data or suggestions. This publication is not to be taken as a license to operate under or a recommendation to infringe any patents. The observance of all legal regulations and patents is the responsibility of the user.

ABRASION RESISTANCE

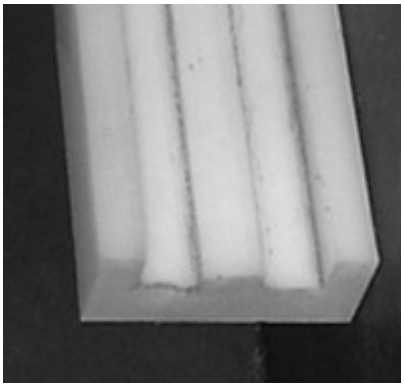
The abrasion resistance of UHMW is illustrated in the sand-slurry diagram below. These tests were conducted for a period of 7½ hours at a speed of 1750 rpm's. Results for convention wear resistant materials are expressed as a percentage based on the volume of material lost. A carbon steel standard was assigned a value of 100. The lower values represent an increased resistance to abrasion.

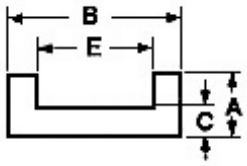
SAND-SLURRY TEST RESULTS

UHMW	44
AR Steel	52
Polybutylene	58
TFE	72
304 Stainless Steel	84
Polycarbonate	96
Carbon Steel	100
High Density Polyethylene	109
Polyacetal	110
Medium Density Polyethylene	125
Phosphor Bronze	190
Polypropylene	190
Phenolic Laminate L.E.	200
Polysulfone	300
Yellow Brass	400
Low Density Polyethylene	530
Maple Wood	690
Hard Neoprene	800

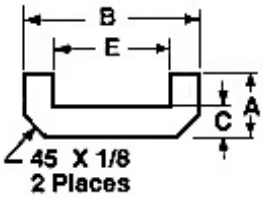
TEL: (519) 941-6120 TOLL FREE: 1-800-858-1707 FAX: (519) 941-5141

UHMW Chain Guide & Wear Strips

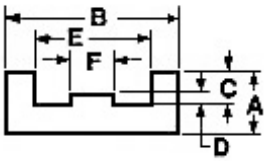




Type X



Type Y



Type Z

UHMW chain guide and wear strips are most commonly supplied in the profiles shown above. However, TECHNICOR can manufacture special profiles (as per your specific dimensions) quickly and economically. Standard lengths are 8 ft. and 10 ft. Chain guides reduce friction, extend chain life, and reduce the overall horsepower requirements of the drive system.

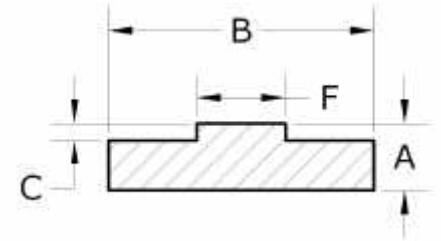
Catalog No.	Type	ANSI Chain No.	A Min.	B Min.	C	D	E	F
TUHC-1040	X	2040	5/16	1 1/4	3/16	-	7/8	-
TUHC-1050		2050	3/8	1 1/4	7/32	-	1	-
TUHC-1060		2060	3/8	1 1/2	3/16	-	1 1/4	-
TUHC-1080		2080	1/2	2	1/4	-	1 9/16	-
TUHC-1100		2100	5/8	2 1/4	5/16	-	1 7/8	-
TUHC-1120		2120	5/8	2 3/4	1/4	-	2 1/4	-
TUHC-0040	Y	2040	5/16	1 1/4	3/16	-	7/8	-
TUHC-0050		2050	3/8	1 1/4	7/32	-	1	-
TUHC-0060		2060	3/8	1 1/2	3/16	-	1 1/4	-
TUHC-0080		2080	1/2	2	1/4	-	1 9/16	-
TUHC-0100		2100	5/8	2 1/4	5/16	-	1 7/8	-
TUHC-0120		2120	5/8	2 3/4	1/4	-	2 1/4	-
TUHC-2040	Z	2040	5/16	1	0.140	0.080	11/16	1/4
TUHC-2050		2050	3/8	1 1/4	3/16	0.100	13/16	5/16
TUHC-2060		2060	1/2	1 1/2	0.213	0.115	1 1/8	7/16
TUHC-2080		2080	1/2	2	1/4	0.130	1 7/16	9/16
TUHC-1003	X	H78/S188	1 1/4	4 1/4	3/8	-	3 1/2	-
TUHC-1004	X	81X/1578	1	3	3/8	-	2 1/2	-

Standard Length: 10 feet
Material:
UHMW Nat (White) or
UHMW Rpr Blk (Repro Black)
Other materials on request

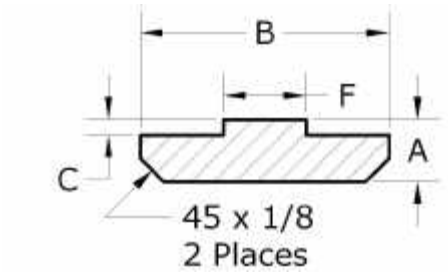
TECHNICOR

UHMW Chain Guides & Wearstrips

type D



type E



UHMW Chain Guide Raceway

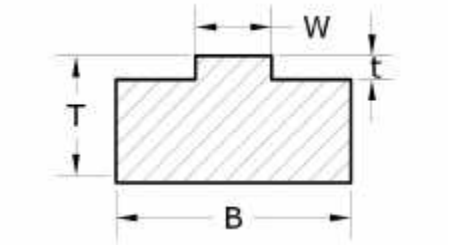
Catalog Number	type	ANSI Chain No.	A Min. (in.)	B Min. (in.)	C (in.)	F (in.)
TUHC-5040	D	2040	5/16	1	0.080	1/4
TUHC-5050		2050	5/16	1 1/4	0.100	5/16
TUHC-5060		2060	5/16	1 1/4	0.115	7/16
TUHC-5080		2080	3/8	1 1/2	0.130	9/16
TUHC-5100		2100	1/2	2	0.210	11/16
TUHC-5120		2120	1/2	2 1/4	0.260	15/16
TUHC-6040	E	2040	5/16	1	0.080	1/4
TUHC-6050		2050	5/16	1 1/4	0.100	5/16
TUHC-6060		2060	5/16	1 1/4	0.115	7/16
TUHC-6080		2080	3/8	1 1/2	0.130	9/16
TUHC-6100		2100	1/2	2	0.210	11/16
TUHC-6120		2120	1/2	2 1/4	0.260	15/16

Standard Length: 10 feet
Material:
UHMW Nat (white) or
UHMW Rpr Blk (repro/black)
Other materials on request

UHMW Chain Guides & Wearstrips

UHMW Chain Guide Raceway

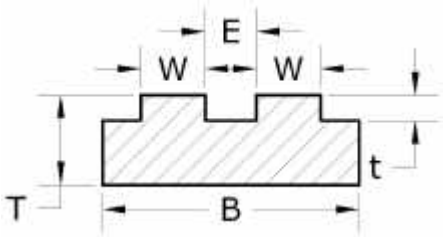
type T



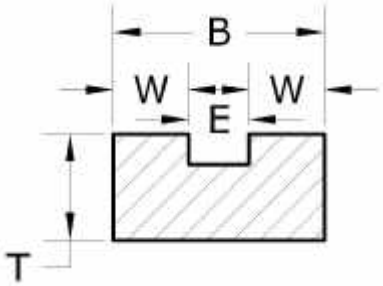
Catalog Number	ANSI Chain #	B	T	W	t
TUHU-2825	25	.78	.59	.10	.09
TUHU-2835	35	.78	.59	.17	.10
TUHU-2840	40	.78	.59	.29	.10
TUHU-2850	50	.78	.59	.35	.12
TUHU-2860	60	1.10	.59	..47	.15
TUHU-2880	80	1.34	.71	.60	.18
TUHU-2810	100	1.61	1.00	.72	.26
TUHU-2812	120	2.01	1.25	.96	.31
TUHU-2814	140	2.17	1.50	.96	.36
TUHU-2816	160	2.61	1.50	1.21	.42
TUHU-2818	180	2.88	1.50	1.35	.47

Standard Length: 10 feet Material: UHMW Nat (white) or
UHMW Rpr Blk repro/black)
Other materials on request

type TD-A



type TD-B



Catalog Number	ANSI Chain #	B	T	W	t	E	type
TUHU-2925	25-2	.78	.59	.10	.09	.15	TD-A
TUHU-2935	35-2	.78	.59	.17	.10	.23	TD-A
TUHU-2940	40-2	.85	.59	.29	.10	.27	TD-B
TUHU-2950	50-2	1.07	.59	.35	.12	.37	TD-B
TUHU-2960	60-2	1.34	.59	.47	.15	.40	TD-B
TUHU-2980	80-2	1.75	.71	.60	.18	.55	TD-B

Also available for triple and multiple strand chain: POR
Standard Lengths: 10 feet

Material: UHMW Nat (white) or
UHMW Rpr Blk (repro/black)
Other materials on request

TECHNICOR

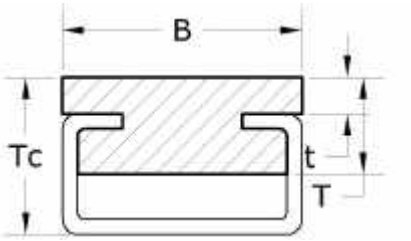
UHMW Chain Guides & Wearstrips

UHMW Chain Guide for Steel "C" Channel

"C" Channel ordered separately—see catalog page 6-h

Standard length: 10 feet; Material: UHMW Nat (white) or UHMW Rpr Blk (repro/black); other materials on request

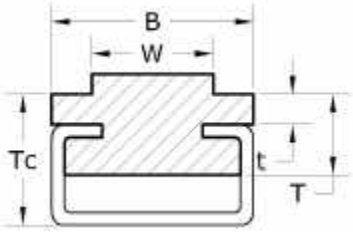
type CF



Type CF Flat Profile

Catalog Number	C Channel	T	Tc	B	t
TUHCF-3201	C3	.59	.79	0.78	.40
TUHCF-3202	C5	.79	1.03	1.10	.56
TUHCF-3203	C9	.79	1.16	1.50	.41
TUHCF-3204	C5	.39	.63	1.10	.16

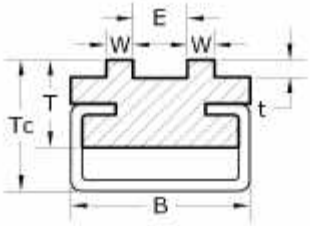
type CT



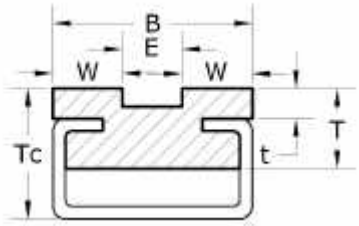
Type CT For ANSI Standard Roller Chain

Catalog Number	ANSI Chain #	C Channel	T	Tc	B	W	t
TUHCT-3325	25	C3	.59	.79	.78	.10	.09
TUHCT-3335	35	C3	.59	.79	.78	.17	.10
TUHCT-3340	40/2040	C3	.59	.79	.78	.29	.10
TUHCT-3350	50/2050	C3	.59	.79	.78	.35	.12
TUHCT-3360	60/2060	C5	.59	.79	1.10	.46	.15
TUHCT-3380	80/2080	C5	.71	.95	1.34	.60	.18

type CTD-A



type CTD-B



Type CTD For Double Strand ANSI Standard Roller Chain

Catalog Number	ANSI Chain #	C Channel	T	Tc	B	W	t	E	type
TUHCTD-3425	25-2	C3	.59	.79	.78	.10	.09	.15	CTD-A
TUHCTD-3435	35-2	C3	.59	.79	.78	.17	.10	.23	CTD-A
TUHCTD-3440	40-2	C3	.59	.79	.85	.29	.10	-	CTD-B
TUHCTD-3450	50-2	C5	.59	.79	1.06	.35	.12	-	CTD-B
TUHCTD-3460	60-2	C5	.59	.79	1.34	.47	.15	-	CTD-B
TUHCTD-3480	80-2	C9	.71	.95	1.75	.60	.18	-	CTD-B

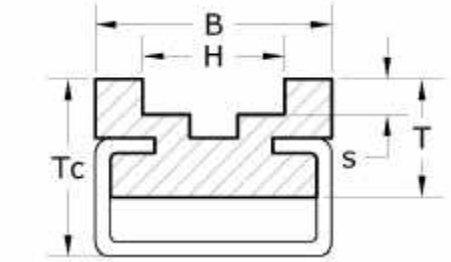
UHMW Chain Guides & Wearstrips

UHMW Guide for Steel "C" Channel

"C" Channel ordered separately—see catalog page 6-h

Standard length: 10 feet; Material: UHMW Nat (white) or UHMW Rpr Blk (repro/black); other materials on request

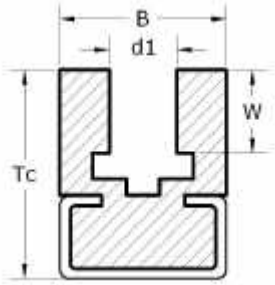
type CU



Type CU For ANSI Standard Roller Chain

Catalog Number	ANSI Chain #	C Channel	T	Tc	B	H	S
TUHCU-3525	25	C3	.59	.79	.78	.27	.09
TUHCU-3535	35	C3	.59	.79	.78	.39	.15
TUHCU-3540	40/2040	C3	.59	.79	.78	.51	.18
TUHCU-3550	50/2050	C5	.71	.95	1.10	.67	.24
TUHCU-3560	60/2060	C5	.71	.95	1.10	.78	.28
TUHCU-3580	80/2080	C9	.79	1.16	1.50	1.04	.30

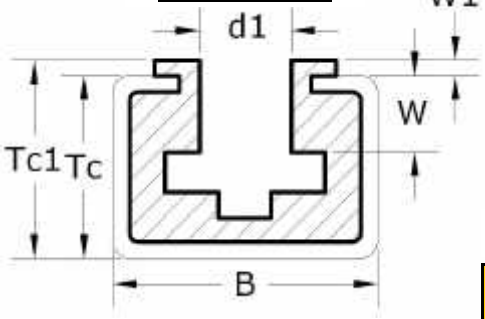
type CK



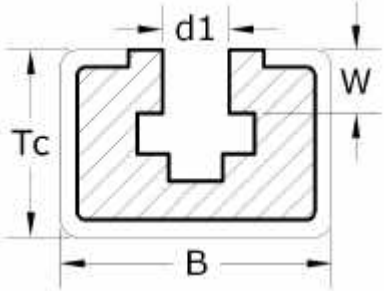
Type CK For ANSI Standard Roller Chain

Catalog Number	ANSI Chain #	C Channel	Tc	B	W	d1
TUHCK-3625	25	C3	.94	.78	.10	.15
TUHCK-3635	35	C3	.94	.78	.17	.22
TUHCK-3640	40/2040	C5	1.13	1.10	.29	.33
TUHCK-3650	50/2050	C9	1.53	1.50	.35	.42
TUHCK-3660	60/2060	C9	1.95	1.50	.47	.49
TUHCK-3680	80/2080	C9	2.55	1.50	.60	.65

type CKG-A



type CKG-B



Type CKG For ANSI Standard Roller Chain

Catalog Number	ANSI Chain #	C Chan-nel	Tc	Tc1	B	W	W1	d1	type
TUHCKG-3725	25	C9	.71	-	1.50	.10	-	.15	CKG-B
TUHCKG-3735	35	C10	.94	-	1.18	.17	-	.22	CKG-B
TUHCKG-3740	40/2040	C10	.94	-	1.18	.29	-	.33	CKG-B
TUHCKG-3750	50/2050	C10	.94	-	1.18	.35	-	.42	CKG-B
TUHCKG-3760	60/2060	C10	-	1.02	1.18	-	.47	.49	CKG-A
TUHCKG-3761	60/2060	C11	1.58	-	1.77	.47	-	.49	CKG-B
TUHCKG-3780	80/2080	C11	1.58	-	1.77	.60	-	.65	CKG-B

TECHNICOR

UHMW Chain Guides & Wearstrips

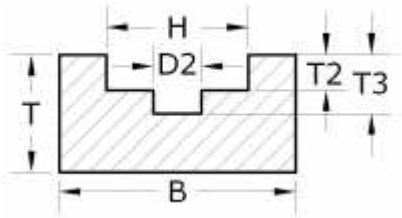
UHMW Chain Guide for ANSI Roller Chain

Standard length: 10 feet; Material: UHMW Nat (white) or UHMW Rpr Blk (repro/black); other materials on request

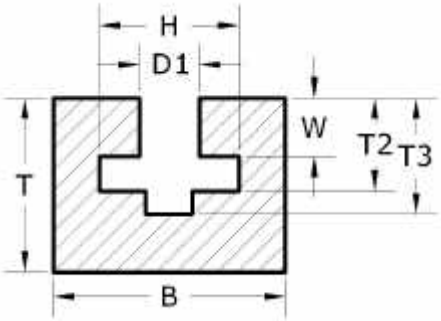
Type U For ANSI Standard Roller Chain

Catalog Number	ANSI Chain #	B	T	T2	T3	D2	H
TUHU-3025	25	.78	.59	.09	.13	.12	.27
TUHU-3035	35	.78	.59	.15	.22	.16	.39
TUHU-3040	40/2040	.78	.59	.18	.26	.21	.51
TUHU-3050	50/2050	1.10	.71	.24	.35	.28	.67
TUHU-3060	60/2060	1.10	.71	.28	.41	.32	.78
TUHU-3080	80/2080	1.50	.79	.30	.47	.43	1.04

type U



type K



Type K For ANSI Standard Roller Chain

Catalog Number	ANSI Chain #	B	T	W	T2	T3	D1	H
TUHK-3125	25	.78	.88	.10	.20	.24	.15	.27
TUHK-3135	35	.78	.88	.17	.32	.40	.22	.39
TUHK-3140	40/2040	1.10	1.05	.29	.45	.52	.33	.51
TUHK-3150	50/2050	1.50	1.43	.35	.55	.61	.42	.67
TUHK-3160	60/2060	1.50	1.85	.47	.76	.88	.49	.78
TUHK-3180	80/2080	1.50	2.45	.60	.96	1.19	.65	1.04

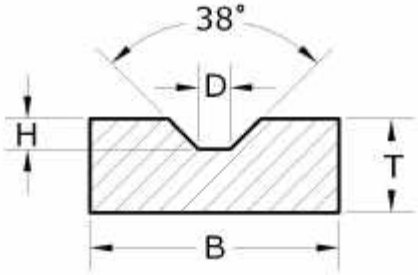
UHMW Belt Guides

Standard length: 10 feet; Material: UHMW Nat (white) or UHMW Rpr Blk (repro/black); other materials on request

Type V - UHMW-PE V-Belt Guides

Catalog Number	Belt	T	B	D	H
TUHV-2208	M	.38	.75	.25	.13
TUHV-2210	Z	.38	.75	.28	.19
TUHV-2213	A	.50	.75	.38	.25
TUHV-2217	B	.63	1.25	.47	.31
TUHV-2220	-	.75	1.25	.53	.38
TUHV-2222	C	.75	1.38	.56	.44
TUHV-2225	-	1.00	1.50	.66	.50

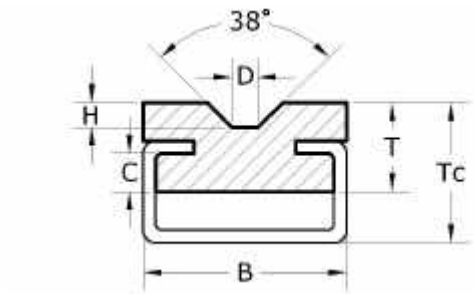
type V



Type CV V-Belt Guide for Steel "C" Channel (see page 6-h)

Catalog Number	Belt	C Channel	T	B	C	Tc	D	H
TUHCV-1425	M	C3	.59	.78	.10	.79	.25	.13
TUHCV-1428	Z	C3	.59	.78	.10	.79	.28	.19
TUHCV-1438	A	C3	.59	.78	.12	.79	.38	.25
TUHCV-1447	B	C5	.59	1.10	.12	.79	.47	.31
TUHCV-1453	-	C5	.81	1.10	.12	1.04	.53	.38
TUHCV-1456	C	C5	.81	1.10	.14	1.04	.56	.44
TUHCV-1466	-	C9	1.00	1.50	.14	1.38	.66	.50

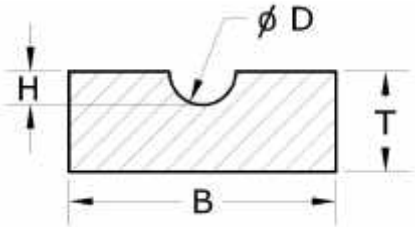
type CV



Type R UHMW-PE Round Belt Guide

Catalog Number	Belt	T	B	D	H
TUHR-2005	3/16	.38	.75	.25	.13
TUHR-2006	1/4	.38	.75	.31	.16
TUHR-2008	5/16	.50	.75	.38	.19
TUHR-2010	3/8	.63	1.00	.44	.22
TUHR-2012	1/2	.75	1.25	.56	.28
TUHR-2015	5/8	1.00	1.25	.69	.35
TUHR-2018	3/4	1.00	1.50	.81	.41

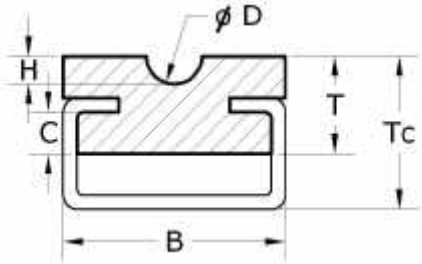
type R



Type CR Round Belt Guide for Steel "C" Channel (see p. 6-h)

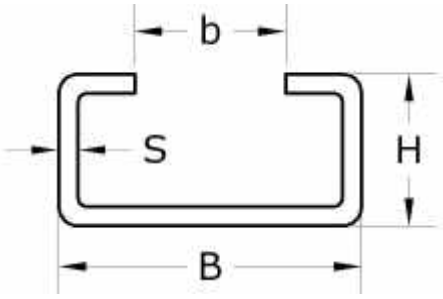
Catalog Number	Belt	C Channel	T	B	C	Tc	D	H
TUHCR-1125	3/16	C3	.59	.78	.10	.79	.25	.13
TUHCR-1131	1/4	C3	.59	.78	.10	.79	.31	.16
TUHCR-1138	5/16	C3	.59	.78	.12	.79	.38	.19
TUHCR-1144	3/8	C5	.59	1.10	.12	.79	.44	.22
TUHCR-1156	1/2	C5	.59	1.10	.12	.79	.56	.28
TUHCR-1169	5/8	C5	.75	1.10	.12	.94	.69	.35
TUHCR-1181	3/4	C5	1.00	1.10	.12	1.25	.81	.41

type CR

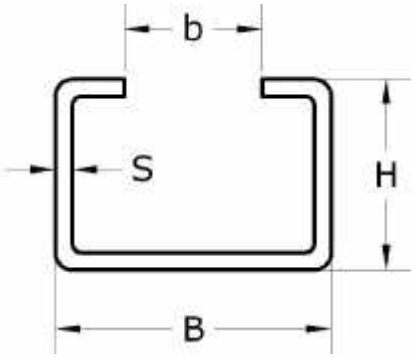


Steel "C" Channel for UHMW Chain Guides & Wear Strips

Channel #
C3,C5,C9



Channel #
C10,C11



Catalog Number Galvanized Steel	Catalog Number 304 Stainless Steel	B	b	H	S
TCG-C3	TCS-C3	0.780	0.390	0.390	0.060
TCG-C5	TCS-C5	1.100	0.550	0.470	0.075
TCG-C9	TCS-C9	1.500	0.870	0.710	0.100
TCG-C10	TCS-C10	1.180	0.790	0.940	0.060
TCG-C11	TCS-C11	1.772	1.220	1.575	0.079

Standard length: 120"

TECHNICOR

Plastic Roller Chain Sprockets

ANSI CHAIN #25
1/4" PITCH

Roller Chain Sprockets No. 25 Single - Type B Hub

No. of Teeth	Catalog Number	Pitch Dia.	Bore (in.) Stock	Bore (in.) Max.	Hub (in.) Dia.	Hub (in.) LTB
9	SUHB2509	.731	1/4	1/4	19/32*	.1/2
10	SUHB2510	.809	1/4	1/4	9/16	1/2
11	SUHB2511	.887	1/4	5/16	9/16	1/2
12	SUHB2512	.966	1/4	3/8	11/16	.1/2
13	SUHB2513	1.045	1/4	7/16	3/4	1/2
14	SUHB2514	1.123	3/8	1/2	3/4	1/2
15	SUHB2515	1.202	3/8	1/2	3/4	.1/2
16	SUHB2516	1.281	3/8	1/2	13/16	1/2
17	SUHB2517	1.361	3/8	1/2	29/32	1/2
18	SUHB2518	1.440	3/8	1/2	1	.1/2
19	SUHB2519	1.519	3/8	1/2	1-1/16	1/2
20	SUHB2520	1.598	3/8	1/2	1-5/32	1/2
21	SUHB2521	1.677	3/8	1/2	1-5/32	.1/2
22	SUHB2522	1.757	3/8	1/2	1-5/32	1/2
23	SUHB2523	1.836	3/8	1/2	1-5/32	1/2
24	SUHB2524	1.915	1/2	13/16	1-25/32	.70
25	SUHB2525	1.995	1/2	1	1-55/64*	.70
26	SUHB2526	2.074	1/2	13/16	1-15/16	.70
27	SUHB2527	2.153	1/2	1	2*	.70
28	SUHB2528	2.233	1/2	13/16	1-7/32	.70
29	SUHB2529	2.312	1/2	1	2	.70
30	SUHB2530	2.392	1/2	1	2	.70
31	SUHB2531	2.471	1/2	1	2	.70
32	SUHB2532	2.551	1/2	1	2	.70
33	SUHB2533	2.630	1/2	1	2	.70
34	SUHB2534	2.709	1/2	1	2	.70
35	SUHB2535	2.789	1/2	1	2	.70
36	SUHB2536	2.868	1/2	1	2	.70
37	SUHB2537	2.948	1/2	1	2	.70
38	SUHB2538	3.027	1/2	1	2	.70
39	SUHB2539	3.107	1/2	1	2	.70
40	SUHB2540	3.186	1/2	1	2	.70
41	SUHB2541	3.266	1/2	1	2	.70
42	SUHB2542	3.345	1/2	1	2	.70
43	SUHB2543	3.425	1/2	1	2	.70
44	SUHB2544	3.504	1/2	1	2	.70
45	SUHB2545	3.584	1/2	1	2	.70
46	SUHB2546	3.663	1/2	1	2	.70
47	SUHB2547	3.743	1/2	1	2	.70
48	SUHB2548	3.822	1/2	1	2	.70
49	SUHB2549	3.902	1/2	1-1/2	2	3/4
50	SUHB2550	3.981	1/2	1-1/2	2	3/4
54	SUHB2554	4.300	1/2	1-3/4	2	3/4
60	SUHB2560	4.777	1/2	7/8	1-3/8	.61

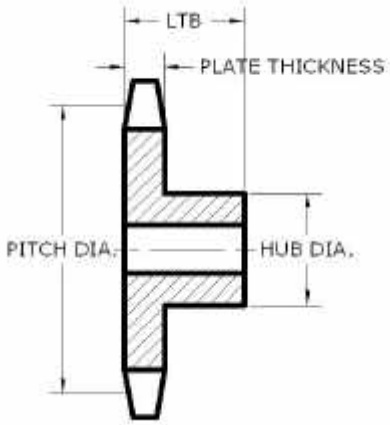


Plate thickness: 0.110"

* Has a recessed groove for chain clearance

Material: standard: UHMW Nat (white)
also available in Nylon (NY)

Keyways (KW) and Setscrew (SS) must be specified when ordering;
example: P/N SUHB2532KW&SS

TECHNICOR

Plastic Roller Chain Sprockets

ANSI CHAIN #35
3/8" PITCH

Roller Chain Sprockets No. 35 Single - Type B Hub

No. of Teeth	Catalog Number	Pitch Dia.	Bore (in.) Stock	Bore (in.) Max.	Hub (in.) Dia.	Hub (in.) LTB
8	SUHB3508	.980	1/4	3/8	3/4*	3/4
9	SUHB3509	1.096	1/4	3/8	27/32*	3/4
10	SUHB3510	1.214	3/8	7/16	31/32*	3/4
11	SUHB3511	1.331	3/8	1/2	1-1/16*	3/4
12	SUHB3512	1.449	1/2	9/16	1-7/32*	3/4
13	SUHB3513	1.567	1/2	1/2	1-1/4*	3/4
14	SUHB3514	1.685	1/2	3/4	1-1/4	3/4
15	SUHB3515	1.804	1/2	13/16	1-11/32	7/8
16	SUHB3516	1.922	1/2	15/16	1-15/32	7/8
17	SUHB3517	2.041	1/2	7/8	1-19/32	7/8
18	SUHB3518	2.160	1/2	11/16	1-23/32	7/8
19	SUHB3519	2.278	1/2	1	1-27/32	7/8
20	SUHB3520	2.397	1/2	1-3/16	1-15/16	7/8
21	SUHB3521	2.516	1/2	1	2	7/8
22	SUHB3522	2.635	1/2	1	2	7/8
23	SUHB3523	2.754	1/2	1	2	7/8
24	SUHB3524	2.873	1/2	1-3/16	2	7/8
25	SUHB3525	2.992	1/2	1	2	7/8
26	SUHB3526	3.111	1/2	1-7/16	2	7/8
27	SUHB3527	3.230	1/2	1	2	7/8
28	SUHB3528	3.349	1/2	1	2	7/8
29	SUHB3529	3.468	1/2	1	2	7/8
30	SUHB3530	3.588	1/2	1-7/16	2	7/8
31	SUHB3531	3.707	1/2	1	2	7/8
32	SUHB3532	3.826	1/2	1-1/2	2	7/8
33	SUHB3533	3.945	1/2	1-1/2	2-3/8	7/8
34	SUHB3534	4.064	1/2	1-1/2	2-3/8	7/8
35	SUHB3535	4.183	1/2	1-7/16	2-3/8	7/8
36	SUHB3536	4.303	1/2	1-7/16	2-3/8	7/8
37	SUHB3537	4.422	1/2	1-1/2	2-3/8	7/8
38	SUHB3538	4.541	1/2	1-1/2	2-3/8	7/8
39	SUHB3539	4.660	1/2	1-1/2	2-3/8	7/8
40	SUHB3540	4.780	1/2	1-3/4	2-3/8	1
41	SUHB3541	4.899	1/2	1-1/2	2-3/8	1
42	SUHB3542	5.018	1/2	1-1/2	2-3/8	1
43	SUHB3543	5.137	1/2	1-1/2	2-3/8	1
44	SUHB3544	5.257	1/2	1-1/2	2-3/8	1
45	SUHB3545	5.376	1/2	1-3/4	2-3/8	1
46	SUHB3546	5.495	1/2	1-1/2	2-3/8	1
47	SUHB3547	5.614	1/2	1-1/2	2-3/8	1
48	SUHB3548	5.734	1/2	1-1/2	2-3/8	1

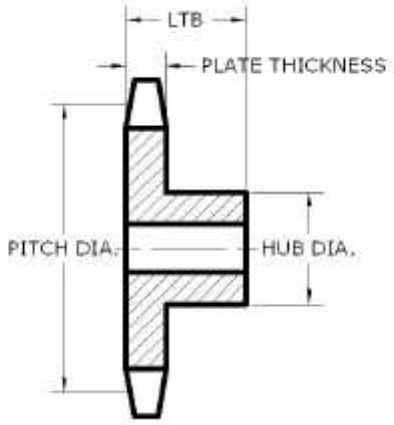


Plate thickness: 0.168"

* Has a recessed groove for chain clearance

A plates and C hubs also available

Material: standard: UHMW Nat (white)
also available in Nylon (NY)

Keyways (KW) and Setscrew (SS) must be specified when ordering;
example: P/N SUHB3519KW&SS

TECHNICOR

Plastic Roller Chain Sprockets

ANSI CHAIN #40
1/2"PITCH

No. 40 Single - Type B Hub / Type A Plate

No. of Teeth	Catalog Number	Pitch Dia.	Bore (in.) Stock	Bore (in.) Max.	Hub (in.) Dia.	Hub (in.) LTB	Catalog Number	Bore (in) Stock
8	SUHB4008	1.307	1/4	1/2	3/4	3/4	SUHA4008	1/2
9	SUHB4009	1.462	1/4	1/2	3/4	3/4	SUHA4009	1/2
10	SUHB4010	1.618	1/4	1/2	3/4	3/4	SUHA4010	1/2
11	SUHB4011	1.775	1/4	1/2	3/4	3/4	SUHA4011	1/2
12	SUHB4012	1.932	1/2	3/4	2	3/4	SUHA4012	1/2
13	SUHB4013	2.089	1/2	7/8	2	3/4	SUHA4013	3/4
14	SUHB4014	2.247	1/2	1	2	3/4	SUHA4014	3/4
15	SUHB4015	2.405	1/2	1	2	3/4	SUHA4015	3/4
16	SUHB4016	2.563	1/2	1	2	3/4	SUHA4016	3/4
17	SUHB4017	2.721	1/2	1	2	3/4	SUHA4017	3/4
18	SUHB4018	2.879	1/2	1	2	3/4	SUHA4018	3/4
19	SUHB4019	3.038	1/2	1	2	3/4	SUHA4019	3/4
20	SUHB4020	3.196	1/2	1	2	3/4	SUHA4020	3/4
21	SUHB4021	3.355	1/2	1	2	3/4	SUHA4021	3/4
22	SUHB4022	3.513	1/2	1	2	3/4	SUHA4022	3/4
23	SUHB4023	3.672	1/2	1	2	3/4	SUHA4023	3/4
24	SUHB4024	3.831	1/2	1-1/2	3	7/8	SUHA4024	3/4
25	SUHB4025	3.989	1/2	1-1/2	3	7/8	SUHA4025	3/4
26	SUHB4026	4.148	1/2	1-1/2	3	7/8	SUHA4026	1
27	SUHB4027	4.307	1/2	1-1/2	3	7/8	SUHA4027	1
28	SUHB4028	4.466	1/2	1-1/2	3	7/8	SUHA4028	1
29	SUHB4029	4.625	1/2	1-1/2	3	7/8	SUHA4029	1
30	SUHB4030	4.783	1/2	1-1/2	3	7/8	SUHA4030	1
31	SUHB4031	4.942	1/2	1-1/2	3	7/8	SUHA4031	1
32	SUHB4032	5.101	1/2	1-1/2	3	7/8	SUHA4032	1
33	SUHB4033	5.260	1/2	1-1/2	3	7/8	SUHA4033	1
34	SUHB4034	5.419	1/2	1-1/2	3	7/8	SUHA4034	1
35	SUHB4035	5.578	1/2	1-1/2	3	7/8	SUHA4035	1
36	SUHB4036	5.737	1/2	1-1/2	3	7/8	SUHA4036	1
37	SUHB4037	5.896	1/2	1-1/2	3	7/8	SUHA4037	1
38	SUHB4038	6.055	1/2	1-1/2	3	7/8	SUHA4038	1
39	SUHB4039	6.214	1/2	1-1/2	3	7/8	SUHA4039	1
40	SUHB4040	6.373	1/2	1-1/2	3	7/8	SUHA4040	1
41	SUHB4041	6.532	1/2	1-1/2	3	7/8	SUHA4041	1
42	SUHB4042	6.691	1/2	1-1/2	3	7/8	SUHA4042	1
43	SUHB4043	6.850	1/2	1-1/2	3	7/8	SUHA4043	1
44	SUHB4044	7.009	1/2	1-1/2	3	7/8	SUHA4044	1
45	SUHB4045	7.168	1/2	1-1/2	3	7/8	SUHA4045	1
46	SUHB4046	7.327	1/2	1-1/2	3	7/8	SUHA4046	1
47	SUHB4047	7.486	1/2	1-1/2	3	7/8	SUHA4047	1
48	SUHB4048	7.645	1/2	1-1/2	3	7/8	SUHA4048	1
49	SUHB4049	7.804	1	1	4	1-1/8	SUHA4049	1
50	SUHB4050	7.963	1	1	4	1-1/8	SUHA4050	1

Single– Type B Hub

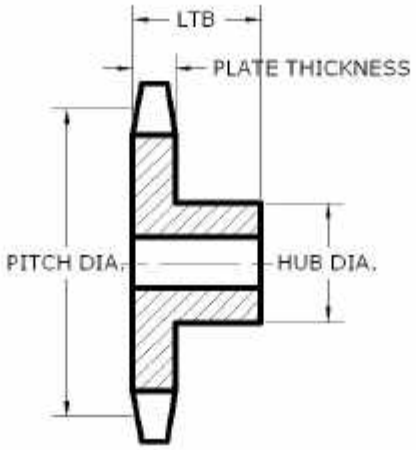
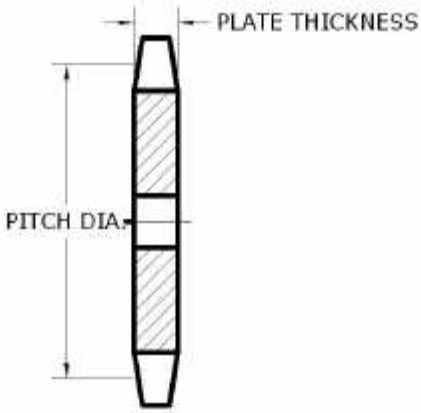


Plate thickness: 0.284"

Single– Type A Plate



C hubs also available

Material: standard: UHMW Nat (white)
also available in Nylon (NY)

Keyways (KW) and Setscrew (SS) must be specified when ordering;
example: P/N SUHB4024KW&SS

TECHNICOR

Plastic Roller Chain Sprockets

ANSI CHAIN #50
5/8"PITCH

No. 50 Single - Type B Hub / Type A Plate

No. of Teeth	Catalog Number	Pitch Dia.	Bore (in.) Stock	Bore (in.) Max.	Hub (in.) Dia.	Hub (in.) LTB	Catalog Number	Bore (in) Stock
9	SUHB5009	1.827	1/2	3/4	2*	3/4	SUHA5009	1/2
10	SUHB5010	2.023	1/2	3/4	2*	3/4	SUHA5010	1/2
11	SUHB5011	2.218	1/2	7/8	2*	3/4	SUHA5011	3/4
12	SUHB5012	2.415	1/2	7/8	2*	3/4	SUHA5012	3/4
13	SUHB5013	2.612	1/2	1	2	3/4	SUHA5013	3/4
14	SUHB5014	2.809	1/2	1	2	3/4	SUHA5014	3/4
15	SUHB5015	3.006	1/2	1	2	3/4	SUHA5015	3/4
16	SUHB5016	3.204	1/2	1	2	3/4	SUHA5016	3/4
17	SUHB5017	3.401	1/2	1	2	3/4	SUHA5017	3/4
18	SUHB5018	3.599	1/2	1	2	3/4	SUHA5018	3/4
19	SUHB5019	3.797	1/2	1-1/2	3	7/8	SUHA5019	3/4
20	SUHB5020	3.995	1/2	1-1/2	3	7/8	SUHA5020	3/4
21	SUHB5021	4.193	1/2	1-1/2	3	7/8	SUHA5021	3/4
22	SUHB5022	4.392	1/2	1-1/2	3	7/8	SUHA5022	1
23	SUHB5023	4.590	1/2	1-1/2	3	7/8	SUHA5023	1
24	SUHB5024	4.788	1/2	1-1/2	3	7/8	SUHA5024	1
25	SUHB5025	4.987	1/2	1-1/2	3	7/8	SUHA5025	1
26	SUHB5026	5.185	1/2	1-1/2	3	7/8	SUHA5026	1
27	SUHB5027	5.384	1/2	1-1/2	3	7/8	SUHA5027	1
28	SUHB5028	5.582	1/2	1-1/2	3	7/8	SUHA5028	1
29	SUHB5029	5.781	1/2	1-1/2	3	7/8	SUHA5029	1
30	SUHB5030	5.979	1/2	1-1/2	3	7/8	SUHA5030	1
31	SUHB5031	6.178	1/2	1-1/2	3	7/8	SUHA5031	1
32	SUHB5032	6.376	1/2	1-1/2	3	7/8	SUHA5032	1
33	SUHB5033	6.575	1/2	1-1/2	3	7/8	SUHA5033	1
34	SUHB5034	6.774	1/2	1-1/2	3	7/8	SUHA5034	1
35	SUHB5035	6.972	1/2	1-1/2	3	7/8	SUHA5035	1
36	SUHB5036	7.171	1/2	1-1/2	3	7/8	SUHA5036	1
37	SUHB5037	7.370	1/2	1-1/2	3	7/8	SUHA5037	1
38	SUHB5038	7.568	1/2	1-1/2	3	7/8	SUHA5038	1
39	SUHB5039	7.767	1	1-1/2	4-1/2	1-1/4	SUHA5039	1
40	SUHB5040	7.966	1	1-1/2	4-1/2	1-1/4	SUHA5040	1
41	SUHB5041	8.165	1	3	4-1/2	1-1/4	SUHA5041	1
42	SUHB5042	8.363	1	3	4-1/2	1-1/4	SUHA5042	1
43	SUHB5043	8.562	1	3	4-1/2	1-1/4	SUHA5043	1
44	SUHB5044	8.761	1	3	4-1/2	1-1/4	SUHA5044	1
45	SUHB5045	8.960	1	3	4-1/2	1-1/4	SUHA5045	1
46	SUHB5046	9.159	1	3	4-1/2	1-1/4	SUHA5046	1
47	SUHB5047	9.357	1	3	4-1/2	1-1/4	SUHA5047	1
48	SUHB5048	9.556	1	3	4-1/2	1-1/4	SUHA5048	1
49	SUHB5049	9.755	1	3	4-1/2	1-1/4	SUHA5049	1
50	SUHB5050	9.954	1	3	4-1/2	1-1/4	SUHA5050	1

Single– Type B Hub

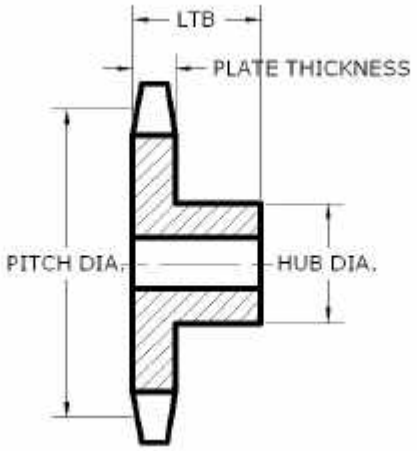
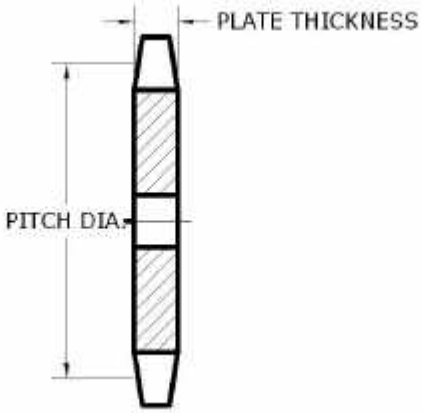


Plate thickness: 0.343"

Single– Type A Plate



C hubs also available

Material: standard: UHMW Nat (white)
also available in Nylon (NY)

Keyways (KW) and Setscrew (SS) must be specified when ordering;
example: P/N SUHB5038KW&SS

* Has a recessed groove for chain clearance

TECHNICOR

Plastic Roller Chain Sprockets

ANSI CHAIN #60
3/4"PITCH

No. 60 Single - Type B Hub / Type A Plate

No. of Teeth	Catalog Number	Pitch Dia.	Bore (in.) Stock	Bore (in.) Max.	Hub (in.) Dia.	Hub (in.) LTB	Catalog Number	Bore (in) Stock
8	SUHB6008	1.960	1/2	1	1-1/2*	1-1/4	SUHA6008	1/2
9	SUHB6009	2.193	1/2	1	1-1/2*	1-1/4	SUHA6009	1/2
10	SUHB6010	2.427	1/2	1	1-1/2	1-1/4	SUHA6010	1/2
11	SUHB6011	2.662	3/4	1	2*	1-1/4	SUHA6011	3/4
12	SUHB6012	2.898	3/4	1	2	1-1/4	SUHA6012	3/4
13	SUHB6013	3.134	3/4	1	2-5/16	1-1/4	SUHA6013	3/4
14	SUHB6014	3.370	3/4	1	2-1/2	1-1/4	SUHA6014	3/4
15	SUHB6015	3.607	3/4	1	2-7/8	1-1/4	SUHA6015	3/4
16	SUHB6016	3.884	3/4	1	3	1-1/4	SUHA6016	3/4
17	SUHB6017	4.082	1	2	3-1/4	1-1/4	SUHA6017	1
18	SUHB6018	4.319	1	2	3-1/2	1-1/4	SUHA6018	1
19	SUHB6019	4.557	1	2	3-1/2	1-1/4	SUHA6019	1
20	SUHB6020	4.794	1	2	3-7/8	1-1/4	SUHA6020	1
21	SUHB6021	5.032	1	2	4	1-1/4	SUHA6021	1
22	SUHB6022	5.270	1	2	4	1-1/4	SUHA6022	1
23	SUHB6023	5.508	1	2	4	1-1/4	SUHA6023	1
24	SUHB6024	5.746	1	2	4	1-1/4	SUHA6024	1
25	SUHB6025	5.984	1	2	4	1-1/4	SUHA6025	1
26	SUHB6026	6.222	1	2-1/2	4	1-1/4	SUHA6026	1
27	SUHB6027	6.460	1	2-1/2	4	1-1/4	SUHA6027	1
28	SUHB6028	6.699	1	2-1/2	4	1-1/4	SUHA6028	1
29	SUHB6029	6.937	1	2-1/2	4	1-1/4	SUHA6029	1
30	SUHB6030	7.175	1	2-1/2	4	1-1/4	SUHA6030	1
31	SUHB6031	7.413	1	2-1/2	4	1-1/4	SUHA6031	1
32	SUHB6032	7.652	1	2-1/2	4	1-1/4	SUHA6032	1
33	SUHB6033	7.890	1	2-1/2	4	1-1/4	SUHA6033	1
34	SUHB6034	8.128	1	3	4	1-1/4	SUHA6034	1
35	SUHB6035	8.367	1	3	4-1/2	1-1/4	SUHA6035	1
36	SUHB6036	8.605	1	3	4-1/2	1-1/4	SUHA6036	1
37	SUHB6037	8.844	1	3	4-1/2	1-1/4	SUHA6037	1
38	SUHB6038	9.082	1	3	4-1/2	1-1/4	SUHA6038	1
39	SUHB6039	9.321	1	3	4-1/2	1-1/4	SUHA6039	1
40	SUHB6040	9.559	1	3-1/2	4-1/2	1-1/4	SUHA6040	1
41	SUHB6041	9.798	1	3-1/2	4-1/2	1-1/4	SUHA6041	1
42	SUHB6042	10.036	1	3-1/2	5	1-1/4	SUHA6042	1
43	SUHB6043	10.275	1	3-1/2	5	1-1/4	SUHA6043	1
44	SUHB6044	10.513	1	3-1/2	5	1-1/4	SUHA6044	1
45	SUHB6045	10.752	1	3-1/2	5	1-1/4	SUHA6045	1
46	SUHB6046	10.990	1	3-1/2	5	1-1/4	SUHA6046	1
47	SUHB6047	11.229	1	3-1/2	5	1-1/4	SUHA6047	1
48	SUHB6048	11.467	1	3-1/2	5	1-1/4	SUHA6048	1
49	SUHB6049	11.706	1	3-1/2	5	1-1/4	SUHA6049	1
50	SUHB6050	11.944	1	3-1/2	5	1-1/4	SUHA6050	1

Single– Type B Hub

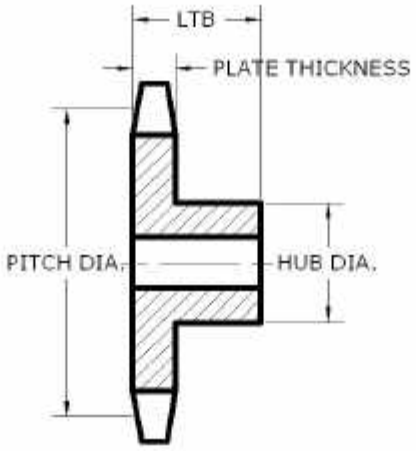
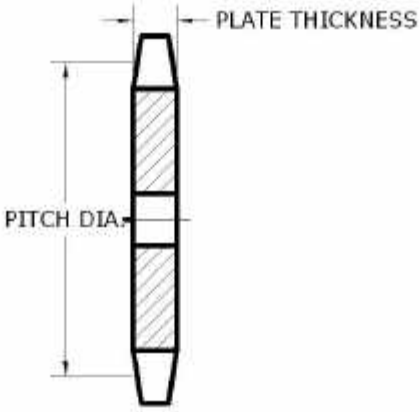


Plate thickness: 0.459"

Single– Type A Plate



C hubs also available

Material: standard: UHMW Nat (white)
also available in Nylon (NY)

Keyways (KW) and Setscrew (SS) must be specified when ordering;
example: P/N SUHB6026KW&SS

* Has a recessed groove for chain clearance

TECHNICOR

Plastic Roller Chain Sprockets

ANSI CHAIN #80
1"PITCH

No. 80 Single - Type B Hub / Type A Plate

No. of Teeth	Catalog Number	Pitch Dia.	Bore (in.) Stock	Bore (in.) Max.	Hub (in.) Dia.	Hub (in.) LTB	Catalog Number	Bore (in) Stock
8	SUHB8008	2.613	3/4	1	2*	1-1/2	SUHA8008	1
9	SUHB8009	2.924	3/4	1	2*	1-1/2	SUHA8009	1
10	SUHB8010	3.236	3/4	1	2	1-1/2	SUHA8010	1
11	SUHB8011	3.549	3/4	1	2	1-1/2	SUHA8011	1
12	SUHB8012	3.864	3/4	1	2	1-1/2	SUHA8012	1
13	SUHB8013	4.179	1	2	3-1/4	1-1/2	SUHA8013	1
14	SUHB8014	4.494	1	2	3-1/4	1-1/2	SUHA8014	1
15	SUHB8015	4.810	1	2	3-1/4	1-1/2	SUHA8015	1
16	SUHB8016	5.126	1	2	3-1/4	1-1/2	SUHA8016	1
17	SUHB8017	5.442	1	2	3-1/4	1-1/2	SUHA8017	1
18	SUHB8018	5.759	1	2	3-1/4	1-1/2	SUHA8018	1
19	SUHB8019	6.076	1	2-1/2	4	1-1/2	SUHA8019	1
20	SUHB8020	6.392	1	2-1/2	4	1-1/2	SUHA8020	1
21	SUHB8021	6.710	1	2-1/2	4	1-3/4	SUHA8021	1
22	SUHB8022	7.027	1	2-1/2	4	1-3/4	SUHA8022	1
23	SUHB8023	7.344	1	2-1/2	4	1-3/4	SUHA8023	1
24	SUHB8024	7.661	1	2-1/2	4	1-3/4	SUHA8024	1
25	SUHB8025	7.979	1	2-1/2	4	1-3/4	SUHA8025	1
26	SUHB8026	8.296	1	3	4-1/2	2	SUHA8026	1
27	SUHB8027	8.614	1	3	4-1/2	2	SUHA8027	1
28	SUHB8028	8.931	1	3	4-1/2	2	SUHA8028	1
29	SUHB8029	9.249	1	3	4-1/2	2	SUHA8029	1
30	SUHB8030	9.567	1	3	4-1/2	2	SUHA8030	1
31	SUHB8031	9.885	1	3	4-1/2	2	SUHA8031	1
32	SUHB8032	10.202	1	3-1/2	5	2	SUHA8032	1
33	SUHB8033	10.520	1	3-1/2	5	2	SUHA8033	1
34	SUHB8034	10.838	1	3-1/2	5	2	SUHA8034	1
35	SUHB8035	11.156	1	3-1/2	5	2	SUHA8035	1
36	SUHB8036	11.474	1	3-1/2	5	2	SUHA8036	1
37	SUHB8037	11.792	1	3-1/2	5	2	SUHA8037	1
38	SUHB8038	12.110	1	4	5-1/2	2	SUHA8038	1
39	SUHB8039	12.428	1	4	5-1/2	2	SUHA8039	1
40	SUHB8040	12.746	1	4	5-1/2	2	SUHA8040	1
41	SUHB8041	13.063	1	4	5-1/2	2	SUHA8041	1
42	SUHB8042	13.382	1	4	5-1/2	2	SUHA8042	1
43	SUHB8043	13.700	1	4	5-1/2	2	SUHA8043	1
44	SUHB8044	14.018	1	4	6	2	SUHA8044	1
45	SUHB8045	14.336	1	4	6	2	SUHA8045	1
46	SUHB8046	14.654	1	4	6	2	SUHA8046	1
47	SUHB8047	14.972	1	4	6	2	SUHA8047	1
48	SUHB8048	15.290	1	4	6	2	SUHA8048	1
49	SUHB8049	15.608	1	4	6	2	SUHA8049	1
50	SUHB8050	15.926	1	4	6	2	SUHA8050	1

Single– Type B Hub

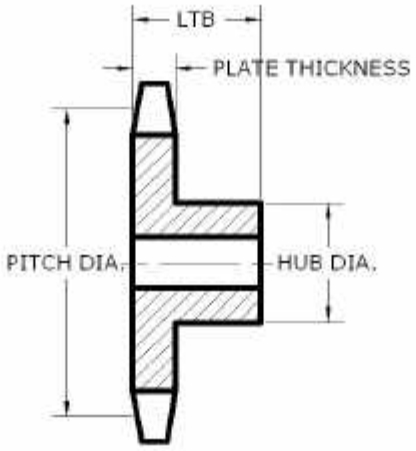
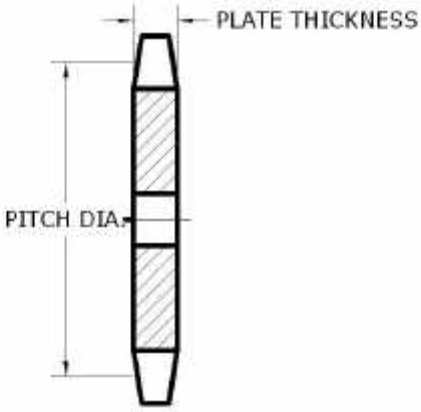


Plate thickness: 0.575"

Single– Type A Plate



C hubs also available

Material: standard: UHMW Nat (white)
also available in Nylon (NY)

Keyways (KW) and Setscrew (SS) must be specified when ordering;
example: P/N SUHB8034KW&SS

* Has a recessed groove for chain clearance

TECHNICOR

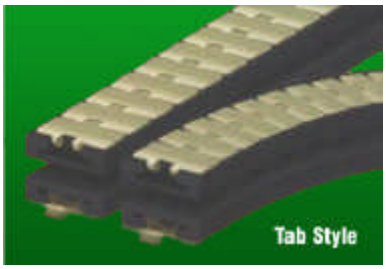
CHAIN GUIDES

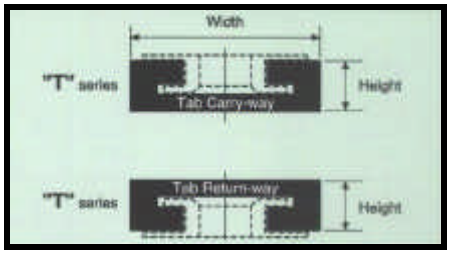
For side-flexing conveyor chains

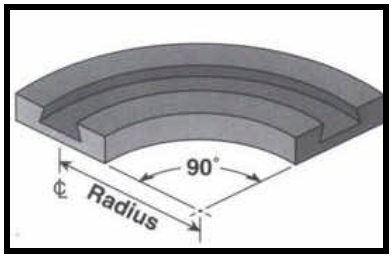
Modular chain guides available from TECHNICOR

TECHNICOR

Tab and Bevel style chain guides







TAB STYLE

TAB modules are designated as "T" series. These modules can be installed as carry-ways, or flipped upside-down so they function as return ways.
Material is UHMW-Rpr Blk: a blend of reprocessed UHMW
For Nylatron® material, insert "N" in the part number (see ordering information)
Straight sections are supplied in 10 foot lengths.

Chain Number	Track Width	Track Height	Carry or Return	Radius	Curve-Part Number	Straight Section-Part Number
879TAB-K3-1/4 880TAB-K3-1/4 881TAB-K3-1/4	3.75	1		18	CR-980-T-18-0325	CR-980-T-S-0325-10
				24	CR-980-T-24-0325	
879TAB-K4-1/2 880TAB-K4-1/2 881TAB-K4-1/2	5	1		24	CR-980-T-24-0450	CR-980-T-S-0450-10
881TAB-K7-1/2	8	1		24	CR-981-T-24-0750	CR-981-T-S-0750-10
882TAB-K4-1/2	5	1.188		24	CR-982-T-24-0450	CR-982-T-S-0450-10
882TAB-K7-1/2	8	1.188		24	CR-982-T-24-0750	CR-982-T-S-0750-10
1843	2	1		10	CR-943-T-10-0150	CR-943-T-S-0150-10
				18	CR-943-T-18-0150	
				24	CR-943-T-24-0150	
1873-K3-1/4 1874-K3-1/4	3.75	1.375		18	CR-973-T-18-0325	CR-973-T-S-0325-10
				24	CR-973-T-24-0325	
1873-K4-1/2 1874-K4-1/2	5	1.375		18	CR-973-T-18-0450	CR-973-T-S-0450-10
				24	CR-973-T-24-0450	
1873-K7-1/2 1874-K7-1/2	8	1.375		18	CR-973-T-18-0750	CR-973-T-S-0750-10
				24	CR-973-T-24-0750	
1701TAB	3.25	1.25		12	CR-901-T-12-0209	CR-901-T-S-0209-10
				18	CR-901-T-18-0209	
				24	CR-901-T-24-0209	

ORDERING INFORMATION FOR STANDARD ITEMS:

CR-

N-
Used only if optional Nylatron® is required

981-
Chain reference number

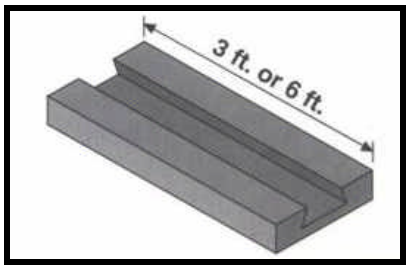
T-
T=TAB module
B=BEVEL module

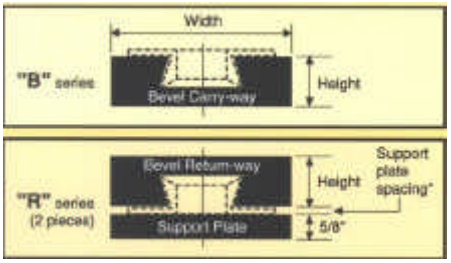
24-
Centre-line radius in inches. Use "S" for straight sections

0450
Chain width reference

TECHNICOR

made from UHMW-PEor Nylatron®





BEVEL STYLE

BEVEL modules use a 1 piece track for carry-ways, designated by "B" in the part number. Return ways consist of 2 pieces: the track and a 5/8" thick chain support plate. The return-ways are designated by "R". Material is UHMW-Rpr Blk: a blend of reprocessed UHMW
For Nylatron® material, insert "N" in the part number (see ordering information)
Straight sections are supplied in 10 foot lengths.

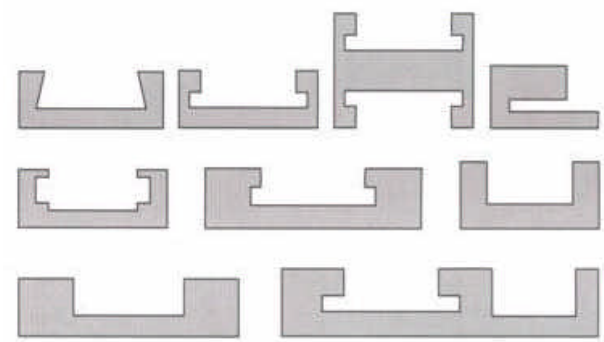
Chain Number	Track Width	Track Height	Carry or Return	Radius	Curve-Part Number	Straight Section-Part Number
879-K3-1/4 880-K3-1/4 881-K3-1/4	3.75	1	carry	18	CR-980-B-18-0325	CR-980-B-S-0325-10
				24	CR-980-B-24-0325	
			return	18	CR-980-R-18-0325	CR-980-R-S-0325-10
				24	CR-980-R-24-0325	
879-K4-1/2 880-K4-1/2 881-K4-1/2	5	1	carry	24	CR-980-T-24-0450	CR-980-B-S-0450-10
			return		CR-980-R-24-0450	CR-980-R-S-0450-10
881-K7-1/2	8	1	carry	24	CR-981-B-24-0750	CR-981-B-S-0750-10
			return		CR-981-R-24-0750	CR-981-R-S-0750-10
882-K4-1/2	5	1.188	carry	24	CR-982-B-24-0450	CR-982-B-S-0450-10
			return		CR-982-R-24-0450	CR-982-R-S-0450-10
882-K7-1/2	8	1.188	carry	24	CR-982-B-24-0750	CR-982-B-S-0750-10
			return		CR-982-R-24-0750	CR-982-R-S-0750-10

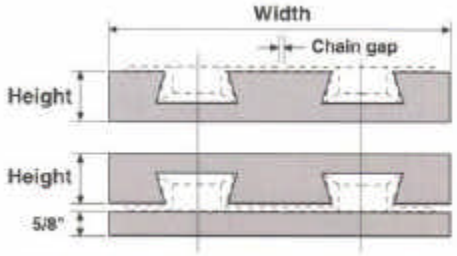
NOTES: **Support plate spacing: 879=7/32"; 880=3/16" ; 881=5/32" ; 882=7/32"**
Because the bottom dimensions of the 879, 880, and 881 chains are the same for widths up to 4-1/2", the CR-980 track is used for all three chains
Nylatron® is the registered trade mark of Quadrant Engineering Plastic Products Inc.

SEE BACK COVER FOR ORDERING CUSTOM CURVES AND TRACKS

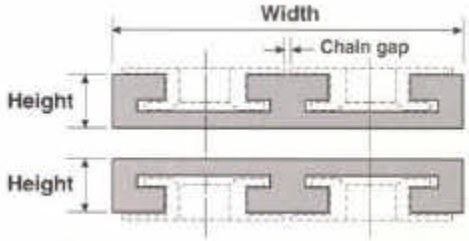
TECHNICOR Custom Guides and Tracks

Chain guides are available in a variety of custom sizes and styles (see X-sections at right). One-piece modules with angles up to 180º can be manufactured with special radius selections, widths, and thicknesses. Special styles include: multi-lane, multi-chain, and variations to accommodate many types of side-flexing conveyor chain. Tangents are also available on custom corner modules.





Section view of typical multi-lane bevel chain module



Section view of typical multi-lane tab chain module

HOW TO ORDER CUSTOM MODULES

Enter the information below and fax to *TECHNICOR* at 1-519-941-5141

Material Selection:

O UHMW Natural

O UHMW Black Repro

O Nylatron®

O Other_____

NOTE:

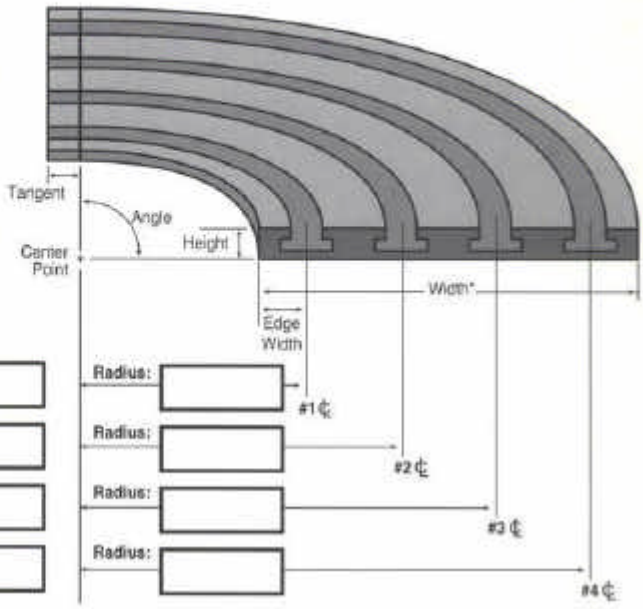
Please include the desired gap between each chain when calculating the overall module width. Recommended minimum gap is 1/16"

	Custom Straights	Custom Turns
No. of carry modules		
No. of return modules		
Length (Overall length of module 6 feet typical)		NOT APPLICABLE
Tangent length (if req.) (3 inches typical, both ends unless indicated)	NOT APPLICABLE	
Angle (in degrees)	NOT APPLICABLE	
Height (Overall height of module in inches)		
Width* (Overall width of module considering all chain widths and chain gaps)		
Edge Width (Edge of module to centerline of chain #1 in inches)		
Chain Style #1: (Example: 880 TAB K3 1/4)		
Chain Style #2:		
Chain Style #3:		
Chain Style #4:		

Person requesting custom information

Company Name

Phone Fax



450 Richardson Rd Orangeville ON L9W 4W8 T:(519) 941-6120 **1-800-858-1707** F:(519) 941-5141

www.technicor.ca e-mail: generalmail@technicor.ca

ISO 9001: 2000

Technical Data
Machining Tolerances

Machining tolerances, clearances, and fitting practice for plastics vary greatly, depending on the material properties, application parameters, temperature, moisture, chemicals, speeds, loads, and many other factors.

Each application should be reviewed by TECHNICOR's engineering staff for the proper fits. Please use the Technical Data Questionnaires found in Section 9 of this catalog to collect and forward the appropriate data. We will review your data and calculate the proper fits and clearances.

Standard machining tolerances for UHMW components up to 2" OD are as follows:

Bushings:	ID: +0.005" / +0.015"	OD: +0.005" / -0.005"
Conveyor End Bearings:	ID: +0.005" / +0.015"	Engagement dia: +0.012" / +0.006"
PI Inserts:	ID: +0.005" / +0.015"	OD: +0.012" / +0.008"

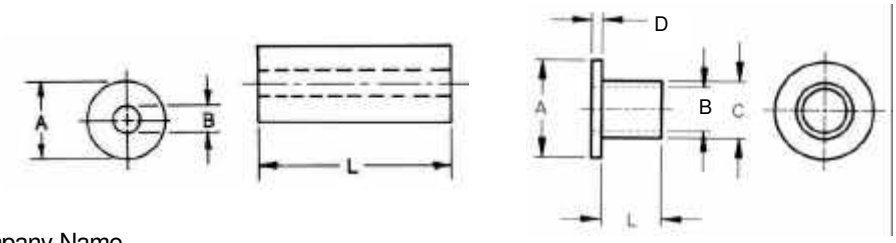
Technical Data
Standard Keyways and Setscrews

Shaft Diameter (inches)	Keyway: Width x Depth	Setscrew size
1/2 - 9/16	1/8 x 1/16	10-24
5/8 - 7/8	3/16 x 3/32	1/4
15/16 - 1-1/4	1/4 x 1/8	5/16
1-5/16 - 1-3/8	5/16 x 5/32	3/8
1-7/16 - 1-3/4	3/8 x 3/16	3/8
1-13/16 - 2-1/4	1/2 x 1/4	1/2 *
2-5/16 - 2-3/4	5/8 x 5/16	1/2 *
2-13/16 - 3-1/4	3/4 x 3/8	5/8
3-5/16 - 3-3/4	7/8 x 7/16	3/4
3-13/16 - 4-1/2	1 x 1/2	3/4
4-9/16 - 5-1/2	1-1/4 x 5/8	7/8
5-9/16 - 6-1/2	1-1/2 x 3/4	1

* Hub size may require smaller setscrews in some cases

TECHNICOR

Technical Data Questionnaire
Polymer Bearings



Company Name _____

Contact Person _____

Tel. # _____

Fax. # _____

Email _____

Application _____

Environment _____

Current Material _____

Preferred Material _____

A _____

B _____

C _____

D _____

L _____

Speed in RPM _____

Continuous _____

Intermittent _____

Load Radial _____

Static _____

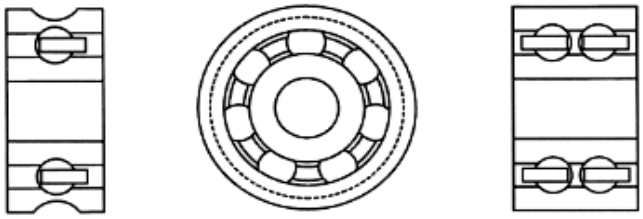
SKETCH YOUR BUSHING APPLICATION

Problems & Requirements _____

Quantity? Existing _____ Potential _____ Annual _____

TECHNICOR

Technical Data Questionnaire
Plastic Ball Bearings



Company Name _____

Contact Person _____

Tel. #: _____

Fax. #: _____

Email _____

Application _____

Environment _____

Current Bearing _____

I.D. _____

O.D. _____

WIDTH _____

Speed in RPM _____

Continuous _____

Intermittent _____

Load: Radial _____

Axial _____

Static _____

SKETCH YOUR BEARING APPLICATION

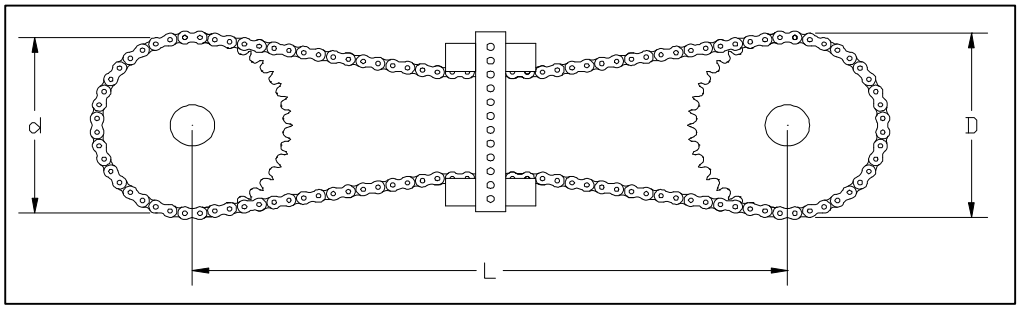
Problems & Requirements _____

Preferred Material? _____

Quantity? Existing _____ Potential _____ Annual _____

TECHNICOR

Technical Data Questionnaire
SI Series Chain Tensioners



Company Name _____

Contact Person _____

Tel. #: _____

Fax. #: _____

Email _____

Chain Size _____

Drive Sprocket P/N _____

# of Teeth _____

Diameter (d) _____

Driven Sprocket P/N _____

# of Teeth _____

Diameter (D) _____

Center Distance (L) _____

Drive Sprocket RPM _____
or
Chain FPM _____

Reversing Drive? _____

Motor HP _____

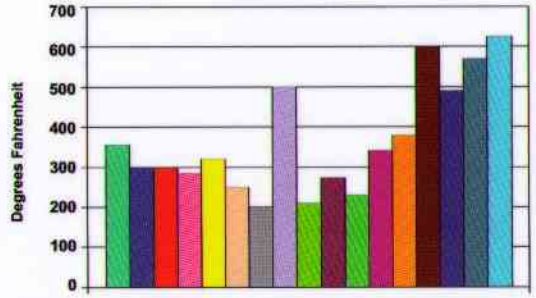
SKETCH YOUR CHAIN DRIVE APPLICATION

Problems & Requirements _____

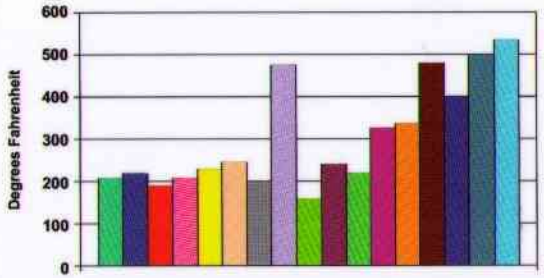
Quantity? Existing _____ Potential _____ Annual _____

PLASTIC PROPERTY COMPARISON GRAPH

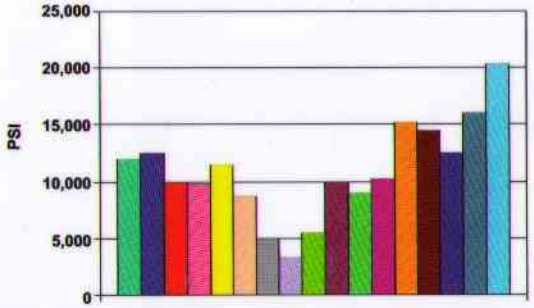
Operating Temperature
Short Term



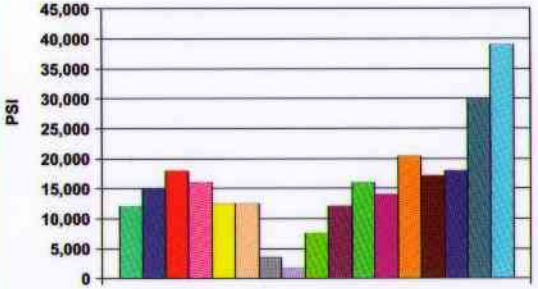
Operating Temperature
Long Term (Constant)



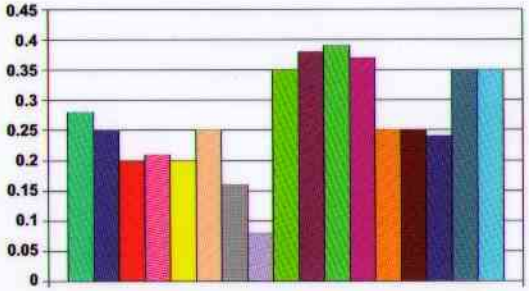
Tensile Strength



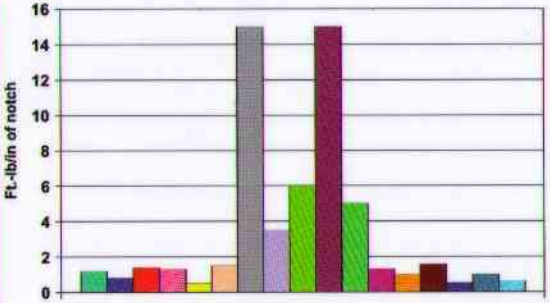
Compressive Strength



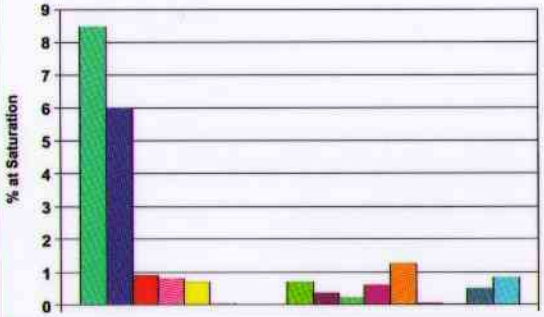
Coefficient of Friction
(Lower has less friction)



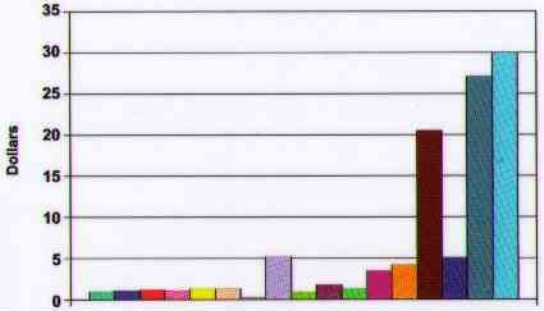
Impact Strength
(The higher the impact the better)



Moisture Absorption



Cost Comparison



- Nylon 6/6
- Cast Nylon
- POM
- POM Copolymer
- Polyester PET-P
- Polyester PBT
- UHMW-PE
- PTFE
- ABS
- PC
- PPO
- PSU
- PEI
- PEEK
- PPS
- PAI
- PI

For more information on engineering plastics contact:

TECHNICOR
INDUSTRIAL SERVICES INC.
1-800-858-1707
www.technicor.ca

IAPD
INTERNATIONAL ASSOCIATION OF PLASTICS DISTRIBUTORS

IAPD THERMOPLASTICS RECTANGLE

High Strength
High Temperature
High Cost

IMIDIZED

Key Characteristics
Very high cost per pound
Excellent physical properties above 400 degrees F
Excellent electrical properties
Excellent dimensional stability
Low coefficient of friction (COF)

Materials
Polyimide (PI)
Polyamide Imide (PAI)
Polybenzimidazole (PBI)

AMORPHOUS HIGH PERFORMANCE THERMOPLASTICS

Key Characteristics
High cost
High temperature
High strength and good stiffness
Good chemical resistance
Transparent
Hot water and steam resistance

Materials
Polysulfone (PSU)
Polyetherimide (PEI)
Polyethersulfone (PES)
Polyarylsulfone (PAS)
Polyarylethersulfone (PAES)

SEMI-CRYSTALLINE HIGH PERFORMANCE THERMOPLASTICS

Key Characteristics
High cost
High temperature
High strength
Good chemical resistance
Good electrical properties
Low COF
Good toughness

Materials
Polyvinylidene Fluoride (PVDF)
Polytetrafluoroethylene (PTFE)
Ethylene-Chlorotrifluoroethylene (ECTFE)
Fluorinated Ethylene Propylene (FEP)
Polychlorotrifluoroethylene (PCTFE)
Perfluoroalkoxy (PFA)
Polyphenylene Sulfide (PPS)
Polyetheretherketone (PEEK)

AMORPHOUS ENGINEERING THERMOPLASTICS

Key Characteristics
Moderate cost
Moderate temperature resistance
Moderate strength
Good to excellent impact resistance
Good dimensional stability
Good optical qualities
Translucency

Materials
Polycarbonate (PC)
Polyphenylene Oxide (Mod PPO)
Polyphenylene Ether (Mod PPE)
Thermoplastic Polyurethane (TPU)

SEMI-CRYSTALLINE ENGINEERING THERMOPLASTICS

Key Characteristics
Moderate cost
Moderate temperature resistance
Moderate strength
Good chemical resistance
Good bearing and wear properties
Low COF
Difficult to bond

Materials
Nylon (PA)
Acetal (POM)
Polyethylene Terephthalate (PET)
Polybutylene Terephthalate (PBT)
Ultra High Molecular Weight
Polyethylene (UHMW-PE)

AMORPHOUS COMMODITY THERMOPLASTICS

Key Characteristics
Low cost
Low temperature resistance
Low strength
Good dimensional stability
Transparent (typically, but not always)

Materials
Acrylic (PMMA)
Polystyrene (PS)
Acrylonitrile Butadiene Styrene (ABS)
Polyvinyl Chloride (PVC)
Polyethylene Terepthalate Glycol (PETG)
Cellulose Acetate Butyrate (CAB)

SEMI-CRYSTALLINE COMMODITY THERMOPLASTICS

Key Characteristics
Low cost
Low temperature resistance, strength
Low COF
Near zero moisture absorption
Good electrical properties, toughness
Difficult to bond

Materials
High Density Polyethylene (HDPE)
Low Density Polyethylene (LDPE)
Polypropylene (PP)
Polymethylpentene (PMP)

AMORPHOUS KEY CHARACTERISTICS

Soften over a broad range of temperatures
Easy to thermoform
Tend to be translucent
Bond well using adhesives and solvents
Prone to stress cracking
Poor fatigue resistance
Structural applications only (not bearing and wear)

SEMI-CRYSTALLINE KEY CHARACTERISTICS

Sharp melting point
Difficult to thermoform
Tend to be opaque
Difficult to bond using adhesives and solvents
Good resistance to stress cracking
Good fatigue resistance
Good for bearing and wear and structural applications