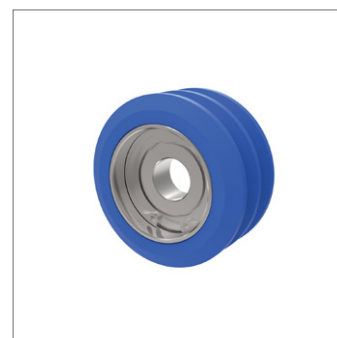
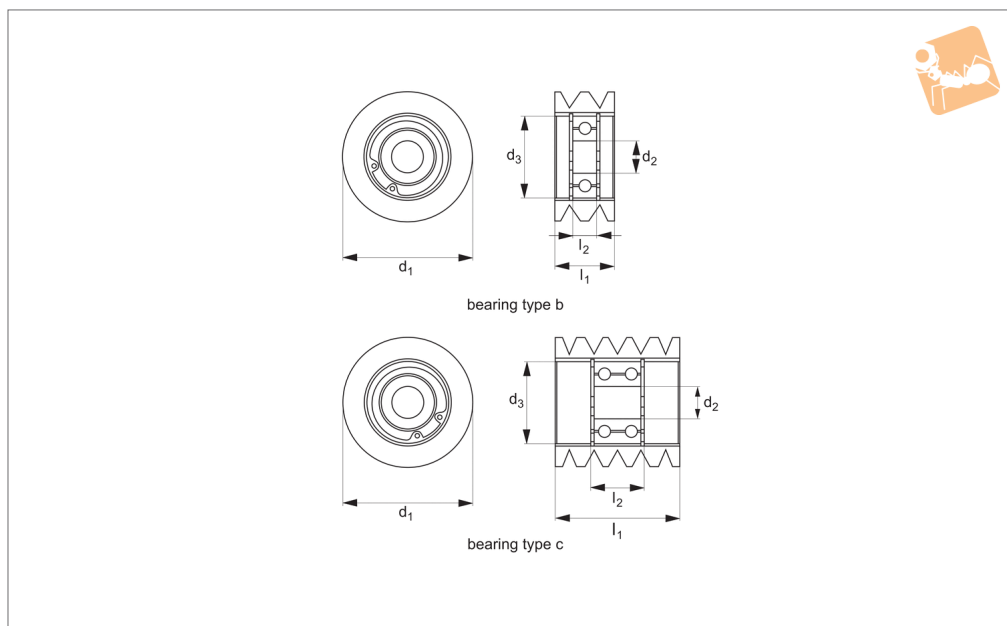




Finned Roller bearing mount



P2772

MATERIAL HANDLING

Material

Nitrile, urethane or neoprene bonded to a steel insert. Hardness from 20-60 durometer (Shore A).

Technical Notes

Bearings included (held in place with snap

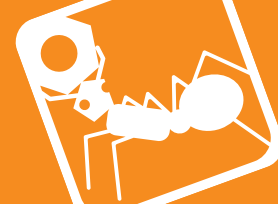
rings). For more details on bearings please see technical pages.

Tips

Finned rollers have grooves on the surface, creating less surface contact with the workpiece, and allowing dirt, debris and

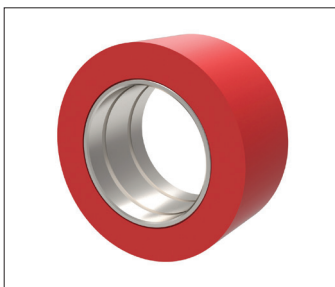
liquid to pass.

Order No.	Material	Durometer	Bearing type	d ₁	l ₁	d ₂ -0 +0.13	d ₃ -0 +0.13	l ₂ -0 +0.13	No. of fins
P2772.20A20NI	Nitrile	20	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A35NI	Nitrile	35	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A60NI	Nitrile	60	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20B20NI	Nitrile	20	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B35NI	Nitrile	35	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B60NI	Nitrile	60	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.25A20NI	Nitrile	20	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A35NI	Nitrile	35	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A60NI	Nitrile	60	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.20A35UR	Urethane	35	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A60UR	Urethane	60	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20B35UR	Urethane	35	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B60UR	Urethane	60	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.25A35UR	Urethane	35	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A60UR	Urethane	60	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.20A20NP	Neoprene	20	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A35NP	Neoprene	35	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A60NP	Neoprene	60	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20B20NP	Neoprene	20	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B35NP	Neoprene	35	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B60NP	Neoprene	60	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.25A20NP	Neoprene	20	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A35NP	Neoprene	35	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A60NP	Neoprene	60	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3

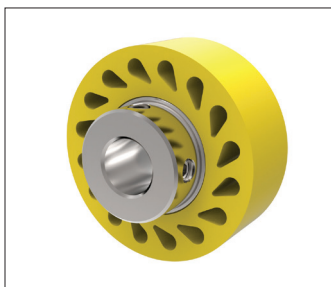


Wixroyd Rollers

Product overview



Solid rollers - have a smooth surface and a solid body

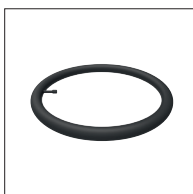


Durasoft rollers - have a smooth contact surface with teardrop holes to allow greater roller compression under load.

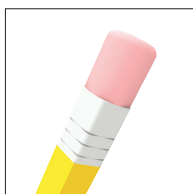


Finned rollers - are grooved and provide self-cleaning as dirt, debris and liquid pass under the contact surface of the roller.

Durability levels



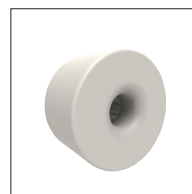
20 durometer:
Stiff foam rubber



35 durometer:
Pencil rubber top



60 durometer:
Car tyre

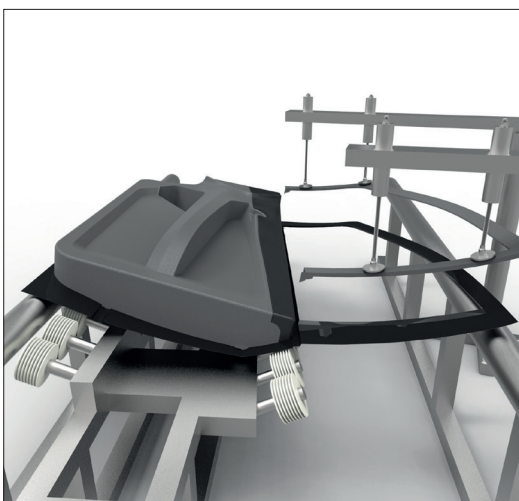


80 durometer:
Skateboard wheel



90 durometer:
Hockey puck

Applications



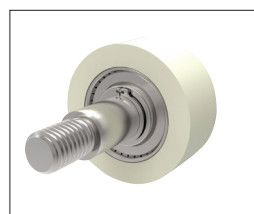
Rollers are used in car manufacturing to guide and align doors during bonding and curing applications



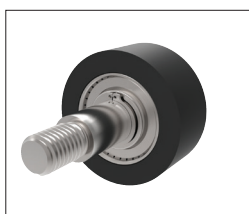
Bumpers have found their way into commercial exercise equipment to provide protection and stability during use.



Materials colour guide and properties

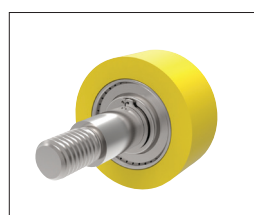


Nitrile - one colour

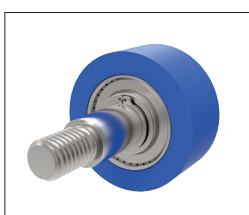


Neoprene - one colour

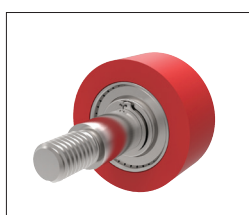
Nitrile and neoprene



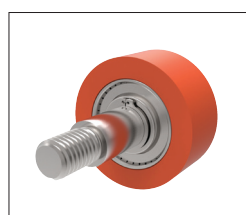
35 Durometer (Yellow)



60 Durometer (Blue)



80 Durometer (Red)



95 Durometer (Orange)

Urethane

Base Elastomer	Chemical Name	Advantages	Disadvantages	Max. Temp	Min. Temp
Nitrile	Nitrile Butadiene	Resistant to petroleum, oil, alcohol & abrasion.	Affected by degreaser solvents.	Continuous 79°C Intermittent 107°C	-51°C
Neoprene	Chloroprene	Flame and weather resistant. Resistant to Petroleum, oil, ozone & high temp.	Affected by phosphate hydraulic fluids, aromatic hydrocarbons.	Continuous 93°C Intermittent 121°C	-40°C
Urethane	Di-Isocyanate Polyurethane	Highest abrasion resistance, strength & load bearing. High elongation, hardness. Resistance to Ozone & Oxygen.	Affected by ether, esters, acid, aromatics, alkalis.	Continuous 93°C Intermittent 121°C	-54°C

Material properties

Property:	Nitrile	Neoprene	Urethane
Tensile Strength	✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓
Ozone Resistance	✓	✓ ✓	✓ ✓ ✓ ✓
Cut Resistance	✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓
Abrasion Resistance	✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓
Resistance To:	Nitrile	Neoprene	Urethane
Compression Set	✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ASTM #1 Oil	✓ ✓ ✓ ✓	✓ ✓	✓ ✓ ✓ ✓
ASTM #2 Oil	✓ ✓ ✓ ✓	✓ ✓	✓ ✓ ✓ ✓
Reference Fuel B	✓ ✓ ✓	✓ ✓	✓ ✓ ✓ ✓
Ketones: MEK	✓	✓ ✓	✓
Aromatics: Toluene	✓ ✓ ✓	✓	✓ ✓ ✓ ✓
Aliphatics: Hexane	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓
Ethyl Acetate	✓	✓ ✓ ✓	✓
Cellosolve	✓ ✓	✓ ✓ ✓ ✓	✓
Methylene Chloride	✓	✓	✓ ✓ ✓ ✓
Trichloroethylene	✓	✓	✓ ✓ ✓ ✓
Diethylene Glycol	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓
Isopropyl Alcohol	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
Caustics: 10% NaOH	✓ ✓ ✓	✓ ✓ ✓	✓
Acids: H2SO4	✓ ✓	✓ ✓ ✓	✓
Excellent	✓ ✓ ✓ ✓	Good ✓ ✓ ✓	Fair ✓ ✓
Poor			✓



The tables below show the maximum theoretical radius loads that can be applied to the respective bearings. Refer to individual product tables to identify bearing type supplied with roller.

Standard bearings

Bearing Type	Inside diameter (inches)	Outside diameter (inches)	Width (inches)	Load (Kg)	Speed (rpm)
A - Standard Double	.313/.317	.870/.875	.498/.502	55	50
				36	100
				24	250
				20	500
B - Standard Single	.500/.505	1.245/1.250	.370/.380	119	50
				79	100
				51	250
				47	500
C - Standard Double	.500/.505	1.245/1.250	.745/.755	192	50
				128	100
				83	250
				70	500

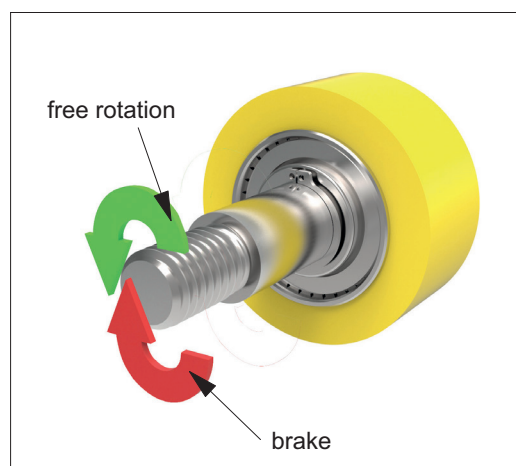
With the calculations above, typical life is approximately 2500 hours.

Clutch bearings

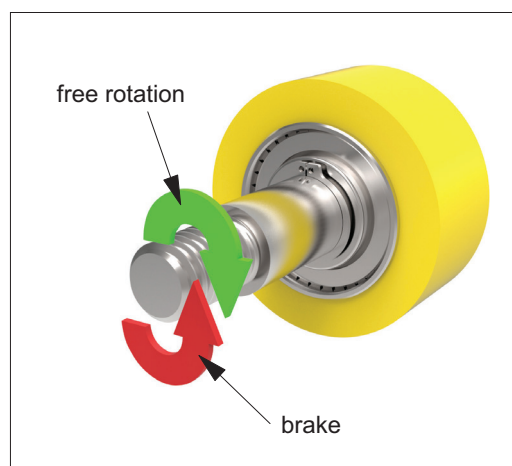
Bearing Type	Inside diameter (inches)	Outside diameter (inches)	Width (inches)	Load (Kg)	Speed (rpm)
H	.3745/.3750	.6245/.6255	.865/.875	167	33
				146	50
				116	100
				85	250
I	.6245/.6250	.8745/.8755	.990/1.000	277	33
				242	50
				192	100
				142	250

With the calculations above, typical life is approximately 1,000,000 revolutions or 500 hours. The bearings are shielded and pre-lubricated for life with grease.

A clutch roller can only be used in one direction, as shown. See data table for clutch direction of particular part.



Left clutch bearing



Right clutch bearing