





Tapered roller bearings offer both much higher load bearing capacity and improved rollability over standard roller bearings. They are suitable for towline applications.



Vulca seals are a rubberised version of our standard steel retainer washers and are used to provide a seal for our standard roller bearings.

**TAPERED ROLLER BEARINGS**

Model Number	ID	Typical Installation
TB-12	1/2"	Most 1-3/16" Bore Wheels
TB-34	3/4"	Most 1-15/16" Bore Wheels
TB-10	1"	Most 1-15/16" Bore Wheels
TB-14	1-1/4"	Most 2-7/16" Bore Wheels
TB(HD)-14	1-1/4"	Most 2-7/16" Bore Wheels
TB-15	1-1/2"	Most 2-7/16" Bore Wheels
TB-20	2"	Most 2-7/16" Bore Wheels

**VULCA SEALS**

Model Number	ID	OD	Thickness
VS-34136	3/4"	1-3/16"	3/32"
VS-58136	5/8"	1-3/16"	3/32"
VS-10115	1"	1-15/16"	1/8"
VS-14115	1-1/4"	1-15/16"	1/8"
VS-14276	1-1/4"	2-7/16"	1/8"
VS-15276	1-1/2"	2-7/16"	1/8"



Retainer washers are used to firmly hold roller bearings in place in the wheel. They are available in steel, nylon or stainless steel.



Head seals are soft gaskets used to seal the raceways on a caster to prevent infiltration of debris.

**HEAD SEALS**

Model Number	Series Used With
HS-BW	BW, RT, SSBW and SSRT Series
HS-HD	HD, LH, SSHD and SSLH Series
HS-LD	LD and SSLD Series
HS-LS	LE, LS, SSLE and SSLS Series

**STEEL RETAINER WASHERS**

Model Number	ID	OD
RW-12116	1/2"	1-1/16"
RW-34136	3/4"	1-3/16"
RW-10176	1"	1-7/16"
RW-10115	1"	1-15/16"
RW-14115	1-1/4"	1-15/16"
RW-14276	1-1/4"	2-7/16"
RW-15276	1-1/2"	2-7/16"

**NYLON RETAINER WASHERS**

Model Number	ID	OD
NW-12116	1/2"	1-1/16"
NW-34136	3/4"	1-3/16"

**STAINLESS STEEL RETAINER WASHERS**

Model Number	ID	OD
SSRW-34136	3/4"	1-3/16"
SSRW-10115	1"	1-15/16"

**DOUBLE NYLON RETAINER WASHERS**

Model Number	ID	OD
DW-34136	3/4"	1-3/16"

**STEEL THRUST WASHERS**

Model Number	ID
TW-12	1/2"
TW-58	5/8"
TW-34	3/4"
TW-10	1"
TW-14	1-1/4"
TW-15	1-1/2"

**STAINLESS STEEL THRUST WASHERS**

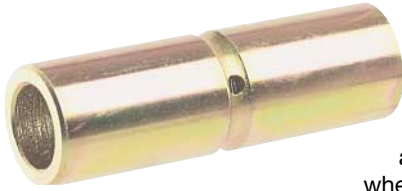
Model Number	ID
SSTW-12	1/2"
SSTW-34	3/4"
SSTW-10	1"

**WASHERS AND TOP HATS - SELECTION AND INSTALLATION GUIDE**

Different bearing types require different combinations of washers to ensure proper operation of the wheel. Here is a brief guide:

- Retainer Washers are used to "retain" or hold in place Roller Bearings (standard, 1-piece and stainless steel).
- Thrust Washers are used in conjunction with Retainer Washers to keep the Caster fork legs from compressing against the side of the wheel.
- Double Nylon Washers are a combination Retainer Washer and Thrust Washer together in one piece.
- Flanged bearings (Delrin, Flanged Brass, Flanged Roller and Flanged Ball) and Tapered Roller Bearings do not require washers to be installed.
- Casters using Cam Style Pedal Brakes (BR) must use separate Retainer and Thrust Washers (rather than Double Nylon Washers) to operate.
- Precision Ball Bearings require the use of Top Hat Spacers.

Spanner bushings are used to “span” the distance between the legs of the fork. The Spanner is locked in place allowing the bearing to turn freely. Precision machined and cross-drilled to allow for lubrication of the wheel bearing.



A fully stainless steel version of our standard steel spanner bushing.

**STEEL SPANNER BUSHINGS**

Model Number	ID	OD	Length
SB-5638112	5/16"	3/8"	1-1/2"
SB-5638196	5/16"	3/8"	1-9/16"
SB-5612196	5/16"	1/2"	1-9/16"
SB-5658111	5/16"	5/8"	1-11/16"
SB-56RM178	5/16"	12mm	1-7/8"
SB-3812196	3/8"	1/2"	1-9/16"
SB-3812178	3/8"	1/2"	1-7/8"
SB-3858111	3/8"	5/8"	1-11/16"
SB-3858178	3/8"	5/8"	1-7/8"
SB-1258178	1/2"	5/8"	1-7/8"
SB-1258276	1/2"	5/8"	2-7/16"
SB-1234178	1/2"	3/4"	1-7/8"
SB-1234276	1/2"	3/4"	2-7/16"
SB-1210300	1/2"	1"	3"
SB-1210312	1/2"	1"	3-1/2"
SB-5834178	5/8"	3/4"	1-7/8"
SB-5834276	5/8"	3/4"	2-7/16"
SB-5810300	5/8"	1"	3"
SB-5810312	5/8"	1"	3-1/2"
SB-3410300	3/4"	1"	3"
SB-3410312	3/4"	1"	3-1/2"
SB-1014312	1"	1-1/4"	3-1/2"
SB-1014412	1"	1-1/4"	4-1/2"
SB-1415312	1-1/4"	1-1/2"	3-1/2"
SB-1415412	1-1/4"	1-1/2"	4-1/2"

**CUSTOM COMPONENTS**

Bestway has it's own in-house machine shop where we can quickly manufacture any custom replacement part or component you may require.

If you require a component that is not listed on these pages, give us the specifications and we can make it for you. As with all of our custom specials, we offer speedy delivery and unbeatable pricing. There is no minimum order quantity required.

Here's just a sample of the custom products we can produce for you:

- Axle Kits (Plain and Grease)
- Spanner Bushings
- Top Hat Spacers for PBB's
- Flanged Metal Bearings

We can machine your product in the material of your choice (Steel, Stainless Steel, Brass, Bronze, Delrin).

We can also source non-standard bearing types and sizes to suit your specific application needs.

**STAINLESS STEEL SPANNER BUSHINGS**

Model Number	ID	OD	Length
SSB-5612M111	5/16"	12mm	1-11/16"
SSB-5612196	5/16"	1/2"	1-9/16"
SSB-5658111	5/16"	5/8"	1-11/16"
SSB-5634111	5/16"	3/4"	1-11/16"
SSB-5612M178	5/16"	12mm	1-7/8"
SSB-3812196	3/8"	1/2"	1-9/16"
SSB-3815M178	3/8"	15mm	1-7/8"
SSB-3858111	3/8"	5/8"	1-11/16"
SSB-3858178	3/8"	5/8"	1-7/8"
SSB-3834111	3/8"	3/4"	1-11/16"
SSB-3834178	3/8"	3/4"	1-7/8"
SSB-1234178	1/2"	3/4"	1-7/8"
SSB-1234276	1/2"	3/4"	2-7/16"
SSB-3410300	3/4"	1"	3"
SSB-3410312	3/4"	1"	3-1/2"

These spanners are made from high-strength Delrin material and are a lower cost alternative to stainless steel spanner bushings.

**DELRIN SPANNER BUSHINGS**

Model Number	ID	OD	Length
DSB-5612196	5/16"	1/2"	1-9/16"
DSB-3812158	3/8"	1/2"	1-5/8"
DSB-1234178	1/2"	3/4"	1-7/8"
DSB-1234276	1/2"	3/4"	2-7/16"

These special spanner bushings are designed to allow wheels to turn through the expansion and contraction often experienced in high-heat applications that cause other bearings to squeak and bind. They are intended for use with our special High-Temp Monolithic Wheels (HTM Series).

**HI-LEX SPANNER BUSHINGS**

Model Number	ID	OD	Length
HL-56	5/16"	12mm	1-5/8"
HL-38	3/8"	15mm	1-7/8"

## REPLACEMENT PARTS - AXLE KITS



Grease axles are hollow axles that are fitted with a grease nipple to allow periodic lubrication of the wheel bearing.



Plain axles (without grease fittings) are used with spanners and bearings that do not require lubrication.

### GREASE AXLE KITS

Model Number	Diam.	Length
GAK-56214	5/16"	2-1/4"
GAK-56212	5/16"	2-1/2"
GAK-38214	3/8"	2-1/4"
GAK-38212	3/8"	2-1/2"
GAK-38300	3/8"	3"
GAK-12300	1/2"	3"
GAK-12312	1/2"	3-1/2"
GAK-12400	1/2"	4"
GAK-12412	1/2"	4-1/2"
GAK-12500	1/2"	5"
GAK-12512	1/2"	5-1/2"
GAK-12612	1/2"	6-1/2"
GAK-34412	3/4"	4-1/2"
GAK-34500	3/4"	5"
GAK-34512	3/4"	5-1/2"
GAK-34900	3/4"	9"
GAK-10512	1"	5-1/2"
GAK-14612	1-1/4"	6-1/2"
GAK-14700	1-1/4"	7"
GAK-14130	1-1/4"	13"

### PLAIN AXLE KITS

Model Number	Diam.	Length
AK-25112	1/4"	1-1/2"
AK-25134	1/4"	1-3/4"
AK-25200	1/4"	2"
AK-56200	5/16"	2"
AK-56214	5/16"	2-1/4"
AK-56212	5/16"	2-1/2"
AK-38214	3/8"	2-1/4"
AK-38212	3/8"	2-1/2"
AK-38300	3/8"	3"
AK-12300	1/2"	3"
AK-12312	1/2"	3-1/2"
AK-12400	1/2"	4"
AK-12412	1/2"	4-1/2"
AK-12500	1/2"	5"
AK-12512	1/2"	5-1/2"
AK-12612	1/2"	6-1/2"
AK-34412	3/4"	4-1/2"
AK-34500	3/4"	5"
AK-34512	3/4"	5-1/2"
AK-34900	3/4"	9"
AK-10512	1"	5-1/2"
AK-14612	1-1/4"	6-1/2"
AK-14700	1-1/4"	7"
AK-14912	1-1/4"	9-1/2"
AK-14130	1-1/4"	13"

A fully stainless steel version of our standard plain axles.

### STAINLESS STEEL PLAIN AXLE

Model Number	Diam.	Length
SSAK-56214	5/16"	2-1/4"
SSAK-38212	3/8"	2-1/2"
SSAK-12300	1/2"	3"
SSAK-12312	1/2"	3-1/2"
SSAK-34412	3/4"	4-1/2"
SSAK-34500	3/4"	5"



A fully stainless steel version of our standard grease axles.

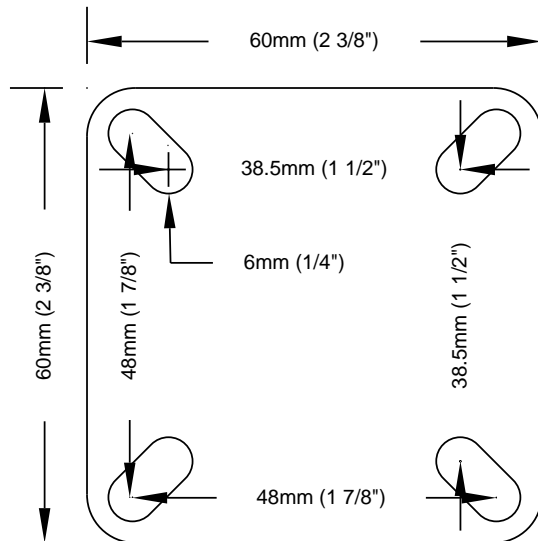
### STAINLESS STEEL GREASE AXLE

Model Number	Diam.	Length
SSGAK-56214	5/16"	2-1/4"
SSGAK-38212	3/8"	2-1/2"
SSGAK-12300	1/2"	3"
SSGAK-12312	1/2"	3-1/2"
SSGAK-34412	3/4"	4-1/2"
SSGAK-34500	3/4"	5"

### CHOOSING THE RIGHT AXLE KIT

There are several things to consider when selecting an Axle kit.

- The Diameter of the Axle is determined by the Axle hole size of the caster being used.
- The Length of the Axle is determined by the fork leg spacing of the caster used. On some light duty casters a slightly longer axle may be required if a Side Pedal Brake is installed.
- Stainless Steel material should be used with all Stainless Steel casters regardless of bearing type or material.
- Plain Axles should be used where there is no requirement to lubricate the wheel bearing (i.e. Plain Bore, Flanged Ball Bearings, Flanged Roller Bearings and Precision Ball Bearings).
- Grease Axles are used where periodic lubrication of the wheel bearing is required (i.e. Roller Bearings, Delrin Bearings, 1-Piece Heavy Duty Roller Bearings, Stainless Steel Roller Bearings and Tapered Roller Bearings).



**AL-50-FTP  
TWAL-50-FTP &  
TWAL-75-FTP  
TOP PLATE**

