Spare Parts & Options - Index



Face Contact Brake (FCB)



Poly Cam Brake (PCB)

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Many casters on equipment made outside USA have ISO top plates which are included this section. Please request information on any caster from our application department. Kingpinless casters can be made with any size top plate, OAH, swivel lead and with any diameter wheel.

Acorn[™] can supply any size and type caster rig with any type wheel with proper size precision ball bearings. Call, fax or e-mail for application assistance, or visit our website to view or print our complete catalog.

Visit our Web site for new products **www.acornindprod.com**

Brake Options

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Wheel Cam Brake (WCB) Designed for use with Roller, Delrin and Oilex bearing wheel casters.



Single Side Brake (SSB) Right hand installation standard, left hand option availble.



Double Side Brake (DSB) Pedal on both sides for easy access.



Total Lock Brake (TLB) Corrosion resistant brake features rugged thermoplastic construction. Locks both wheel and swivel.



Grip Lock Brake (GLB) Corrosion resistant brake features rugged thermoplastic construction. (Does not work with swivel lock.)



Face Brake (FBA) Step down to engage and release.



Face Brake (FBB) Step down to engage and release.



Face Brake (FBC) Step down to engage and release.



Face Brake (FBD) Step down to engage and release. Stainless steel. Poly Cam Brake (PCB) Positive locking action wheel tread. Wrap Around Brake (WAB) Foot operated on both sides. Use with straight roller bearing. Overall height must be greater than 5-1/4". Face Contact Brake (FCB) Turn lever to apply shoe against wheel tread for positive locking action. (Recommended for Pneumatic casters.)

Brake Options



Cam Brake (CB) Step down to engage and release.



Face Contact Brake (FCB) Step down to engage and release.



Face Contact Brake (FCB) Step down to engage and release.



P2 Total Lock Brake (P2/TLB) Locks wheel and swivel with simple press of toe lever.



Total Lock Brake (TLB) Locks wheel and swivel with simple press of toe lever.



Grip Lock Brake (GLB) Corrosion resistant brake features rugged thermoplastic construction.



PC Total Lock (PC/TL) Locks wheel and swivel with simple press of toe lever.

Swivel Lock / Toe Guard

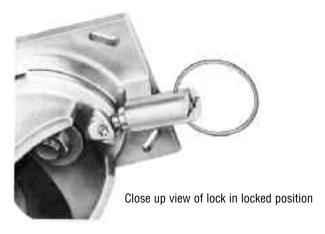


Swivel Lock (Bolt-On)

Spring activated plunger can be disengaged for continuous swiveling or engaged for straight line travel. Available on all models. To order with caster, specify "L". For field installation, see "Options" section on individual pages to determine correct part number. (Notched yoke base option is required for Shockmaster casters, see right.)

Notched Yoke Base Option

Notches in 90° intervals are required for swivel locks. The notch allows the spring activated plunger to lock the swivel. See "Options" section on individual pages to determine correct part number (Standard on all Contender models.)



A field installable swivel lock is available

SL12000 = Swivel Lock

Note: Caster rig must have pre-notched yoke for field installable swivel lock.



Swivel Caster with Toe Guard (TO)



Rigid Caster with Toe Guard (TO)

Brake Chart

SCHED	Provensko Beave Simile	PREFERRED WHEEL BEARINGS	Отные Онталия. Велее Бтуля
£1	Cam Bore (VDO 3)		
a2	Selp Look (GL)	Straight Rober (51), Soli (31), Plain Sone (41), Denn (51, 52); Odan (23)	Face Contact (F)
.04	Face Contact (F)	(Deith (51)	Gript Look (GL)
05	Gam Brake (CB)	Straight Rolling (21), Plain Bore (41), Ollow(23)	Single side (553)
u	Grip Look (O)	Straight Roller (01), Olies (23)	Cam (CB), Single Skite (SSS)
Garáteyer 218	Face Contact (F)	Sinight Roller (DT)	-
40	Single Site (\$33)	Straight Roder (01)	
42	Single (USS)	Straight Roller (01)	
44	Single Side (538)	Straight Roller (01)	
.02	Cam (CS)	Straight Roller (01), Oilan (23)	Single Scie (558). Wap-anaunt (4/0)
62	Bingle 3 de (558)	Sirolghi Roller (115)	Witp-around IWS)
Centlikver 283	Face Contact (F)	Simplight Roller (011)	
31	Cam (CR)	Straight Rovier (DI), Clina (23)	Single Side (SSB), Whip-endural (WS)
n	Cen (CB)	Simighi Rafee (Df), Clies (23)	Single Side (SSB) Wap-around (WS)
272	Puly Carri (P)	Smight Roller (D1), Toperet Roller (09)	Face Contact (F)
78	Single Sale (558)	Skaight Rollar (01), Skaight Rultar (07)	Single Bide (SSB), Wep-enand (MB) Poly Carn (P)
81	Poly Carn (P), Face Contact (P)	Basight Roller (01), Tapered Haller (09)	White-arcs and (W9)
381	Poly Carr (P), Face Contact (F)	Straight Roller (01), Tapored Boller (00)	
Cantever 281	Face Certact (F)	Streight Holler (21)	
5 M (Single Side (SSR)	Straight Rollet (21)	Web-ensite (WD) Poly Cam (P), Pace Contact (F)
50	Single Side (SSB)	Straight Roller (01)	Weig-Interactor (AU), Poly Cam (P), Paor Contact (P)
290	Poly Can (P), Face Contect (F)	Streight Roller (01), Teperad Roller (08)	
Canzeeer 200	Face Contact (F)	Siranghi Roller (21)	

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specifications continued	luove.	preceding	colmon

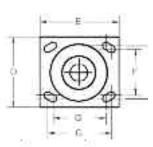
Sense	PROFESSION BRAND STYLE	Ристание Штан, Валиния	OTHER OPTIONAL BRAKE STYLE	
зи.	White-enough (W)	Sinages Ruller (D1)	Single Side (\$55) Poly Care (P)	
192	Paly Cart (P), Face Contact (F)	Stragts Rollet (01), Tapered Rollet (09)		
63	Poy Carr (P). Face Contact (P)	Straight Roller (D1)		
290	Pely Cart (P). Fale Cartist (P)	Shaight Roller (01), Tapenot Roller (02)		
9438L	Poly Cam (P)	Sinarght Roley (01), Tapered Roller (09)	Ringle Size (SSR) Wrap-pround (WS)	
BATEL	Poly Cam (P)	Blonghi Huller (01), Tepened Roller (05)	Single Size (SSE) Wimp-around (WB)	
85831	Poly Cam (P)	Stild gift, Rollier (01), Taparod Rocker (00)	Bright Side (893) Wrap-amunal (993)	
205081	Poly Corn (P), Falle Contact (F)	Skaight Roler (D1), Tapered Richer (09)		
Cardlever 295	Face Consast (F)	Straight Rober (01)		
56	Special			
295	From Cambre (F)	Gitter (23)		
100	Cara (CB)	Stratight Roller (01), Ollek (23)	Single Bide (SSB), Whip-atound (WS)	
.02	Cars (CB)	Straight Rober (01), Oline (23)	Single Side (SSR), Whep-arcord (WB)	
875	Face Contact (Fr	Simight Roler (01), Tapeted Roler (09)	Poly Can (P)	
315	Face Contact (F)	Struight Roller (01), Tepened Roller (02)	Poly Can (F)	
-800	Face Contact (F)	Siroight Roller (01), Toperzit Roller (09)	Poly Carn (P)	
-412	Fada Contact (F)	Streight Roller (01), Topered. Roller (09)	Puty Cam (P)	
600	Field Contact (F)	Straight Floiler (01), Tepered Roller (58)		
.750	Face Contact (F)	Stralgts fictur (01), Taparad Rolar (09)		
150	Face Contact \mathcal{T}^{\ast}_{1}	Straight Roller (01), Tapared Roller (09)		
- 54	Face Contact (F)	Bal Reating (27)		
sr	Face Contact (F)	Bararght Roker (31), Taparad Roker (39)		
V-Gentra	Face Contect (F). Poly Cam (P)			

Top Plate Sizes / OAH's

We regularly carry top plates with other than standard bolt hole centers: As shown in the chart, these will interchange with standard top plates. There are other optional top plates and/or bolt hole centers available.

To order: Use standard caster number with option number of "ST-series#" for swivel or "RT-series#" for rigid followed by the alpha bolt hole center designation. Example: 16TM06201S ST16J (swivel top, 16 series, bolt hole center "A")

272PD06201R RT272D (Rigid top, dual wheel 72 series, bolt hole center "F")



Top Plate & Bolt Hole Centers Chart Top Plate & Bolt Hole Centers Chart

F & G Bolt Hole Centers	DAE Top Plate Size	Attaching Bell Size				Special Bul	t Hole Temp	late Design			
(inclues)	(inches)	(inches)	12, 16. 50	71.55	72, 54	61	90	94	95	106	400
8katted for 5 z 4 or 2-5/8 x 3-5/8	4x5	3/8	3	5 0 2							
Slotted for 3-3/8 x 5-1=4 or 2-7/16 x 4-15/16	6-1/2 x 6-14	1/2	ĸ							к	
Not slotted 2-1/8 x 4	4 x 5	3/8		8							
3 × 3	4 = 4	3/8		H							
3-5/4 x 6	4-1/2 x 7-114	1/2			W/	w					
3-1/4 x 6	5-1/2 x 7-1/4	1/2	-			0	w				
4-1/8 = 4-1/2	5 x 5-1/2	3/8	0		D	00					
4-7/8 x 8-3/4	Swivel 5-1/2.x 8 Rigid 6 = 8	570						c			
7 x 9-3/4	Swivel 8-1/2 x 11 Rigid 9 x 11	578							т		
Biotted for 4-5/5 x 5-1/2 or 4-3/8 x 5-5/8	8x7	1/2									ાષ

Overall Heights Chart

The table below shows variations in overall height special overall heights can be obtained y using smaller diameter wheels in larger rigs. For example, by using 6" wheels in 8" rigs, the height is 1/2" the difference in wheel diameter, or 1" lower than the regular height with an 8" wheel.

Series	Wheel Diameter (inches)	Optional Height (inches)	Swivel Load (Inches)	Option Number
12, 16, 33	3-1/4	5-1/4	1-11/16	HS-42
12, 16, 33	4	5-1/4	1-11/16	HS-86
12, 16, 33	5	6-1/8	1-11/16	HS-50
12, 16, 33	5	6-3/4	1-3/4	H8-54
12, 16, 33	6	6-7/8	2-1/4	HS-56
12	6	7-1/4	1-3/4	HS-62
16	6	7-3/8	1-3/4	HS-59
16	6	7-1/2	1-3/4	HS-60
2	6	7-3/4	1-3/4	HS-85
12, 16	6	10	1-3/4	HS-81
34, 62	8	9-1/2	2-1/4	HS-76
34, 62	8	9-3/4	1-3/4	HS-83
63	8	9-1/2	2-1/4	HS-84
100	8	9-1/2	2-1/2	HS-89

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Replacement Parts

Replacement Part Chart

The table immediately below gives part numbers of caster axies, spanner bushings, straight roller bearings and washers for most standard casters listed in this catelog. Phase pansat Asom for tapend roller bearing wheels or casters pot listed.

				teplacement	Part Number	(H)		主义者 医白泽
Caster Senes Number & Description	Wheat Hub Length (Inchia)	Axic and Nut	Spanner fluming	Thruse Washer	Finler Bearing	Plain Retaining Weater	Seeled Retaining Visaher	Bal Baaring
92-Roler Bearing	1-341	ZJ063508	ZF060824	WA082400	ZB081718	WA081700	WA081790	-
02-Oilex & Plan Bearry	1-3/0	ZJ063508	ZF080824	WA682400				
02-Ball Bearing	1-5/0	2.063509					WA121905	
06, 12, 16	1-5/8 2-3/16	ZJ085408 ZJ085408	ZF001239 ZF001239	WA121905 WA121905	28121920 28121930	WA121905 WA121905	WA121965 WA121965	ZA081900 ZA081902
31, 33	1-5-8	2,085408	ZF081233	WA121905	ZB121920	WA121906	WA121805	
34	3-3/16	ZJ086408	ZF081239	WA121905	ZB121930	WA121965	WA121905	
50	1-6/8	Z.1086408	ZF061230	WA122600	ZH121929		WA121990	
51, 53, 54	2-3/16	ZJ068408	2F061239	WA122600	28121930		WA121996	
61, 62, 71, 77	1.27/82	Z.I085408	7F081239	WA121005	28121030	WA121905	WA121806	ZA081902
61, 62, 72		Z.1095408	ZF081248	WA122500	ZB121040	WA121990	WA121900	
63	2-13/32	7J126808	ZF121648	WA163900	23163140	WA163160	WA163190	
70	2-3/16 2-3/4	ZJ085808 ZJ086809	ZF081239 ZF081248	WA121905 WA122600	28121930 28121940	WA121908 WA121990	WA121906 WA121990	
51,84	2-3/4	2.1127808	ZF-121657	WA163900	28163148	WA163103	WA162190	
90, 92	3-1/4 4-1/4	ZJ127608 ZJ189609	ZF123657 7F182073	WA163900 WA201800	20103148 29203894	WA163103 WA203903	WA162190 WA203990	
100	2-3/10	ZJ085408	ZF081239	WA121905	ZX121930	WA121506	WA121606	ZA081902

Spanner Bushings & Thrust Washers

All sponter bushings are hardened to form precision inner rate for roller bushings. Except as noted below by the valuesk (*), will spenter bushings are creat differ for justication through bolics are. Thrust waheres are bardened. They are not pert of the scenario bushing asserbly and must be ordered separately.

1.0.0	Sa	anner Brish	ing	thread	Washers		8p.	atmai Biash	ing .	Thrust	Washers
Part Number	(D) (France)	CD (inches)	Length (index)	184771aji	Sites (Practices)	Ped Namber	D (vertee)	OD (nches)	Lunghy prefect	Yumber	Gipir (Anchos)
25989824	\$/ 8	1/2	1-5/8	WA283400	1/2 x 1-1/2	ZF0812847	1.0	34	4	WA122000	3/4 21 1 5/6
20001030	1/2	5/8	1-571	WA102400	580×1-548	25-101239	0/8	314	2-72-16	WW122600	34 x 1-5/8
ZF081C38	4.2	68		WA102400	58 x 1-58	25121646	3,54	-1	3	WW103900	*x2-7/18
27081036	1,2	58	-2-1/H	WA103400	5/8 × 1-5/8	297121557	3/4	- 1	3.14	WA153000	\$42.7/16
ZF081038	1.2	6,9	2.38	WA102400	5/8 x 1-5/8	ZF1216641	84	1	4	WW165900	1.8.2-7/10
ZF081039	1.2	68	2-7/10	WA102400	5/8 x 1-5/8	ZF121067*	24	1	4-15/18	WA163800	1 = 2-7,18
29081046	1,2	5/8	2-7/8	WA103400	5/l x 1-5/l	ZF163057*	t	1-14	3.946	WA203903	1-14 + 2-7/16
21-081230	5.7	305	1-7.11	WA122000	34x1-54	ZF162025*	1	4-154	4-5/10	WA294800	1-14 + 3
ZF081236	1/2	8/4	2.14	W4.122600	3/4 × 1-5/8	ZF16208*	1	1-54	8-5-16	WA204800	1-1/4 + 3
25-051238	1.2	39	2-34	WA125800	34 x 1-511	21/202456*	1-1,4	1-172	3-946	WA245600	1-1-2 x 3-1/2
594:139	協調	39	2-7/56	WA122000	项词:x \$-5.8	ZF202473*	1.1.1.1	1-1/8	4-9/16	WA245600	1.1/2×3-1/2
ZF081248	1/2	24	1	WA122600	34 x 1-5/6	ZF202480*	1.1/4	1.52	5-0/10	WA245800	1-12 = 3-12

Straight roller Bearing & Retaining Washers

Straight roller bearings include roller assembly with split outer race but does not include the inchange Brits 1.4.1 Distant of D

	Roller Ba	aring Size		Rotaining Wa	sher Numbers		Oile
Fart Number	(D (Inches)	00 (inches)	Larigh (Inches)	Plan	Boand	Sae (Inches)	Part
28061716	1/2	1-1/(1)	1-1线	WA061703	CETTBONY	1/2 X 1-1/16	ZO
ZE163140	1	1-15/16	2-1/2	WA153103	061591AW	1 x 1-10/10	ŻÓ
28163148	1	1-15/15	3	WA183103	WA1631B0	1 3 1-15/16	ZO
ZB163164	1	1-15/16	4	WA183103	WA163190	1 # 1-15/16	-
25103140	1	1-15/16	3	WA203163		1-14 x 1-15/18	20
28203140	1-1/8	1.15/16	2.192	WA203363	WA203190	1-14-4-1-16/16	Z0
28203148	3-1/4	1-15/16	3	WA203103	WA200190	1+t44.x 1-15/18	20
28081922	1/2	1-3/50	1-348	WA121900		344 X 1-1016	20
ZB061932	1/2	1-3/16	2	WA121900		5/4 K 1-3/15	
ZB101922	5/8	1-3/16	1-3/8	WA121900	WA101990	SNLX 1-3018	Bal
ZB101932	541	1-3/16	2	WA121900	WA101990	5-0 x 1-3/96	-
29101940	.88	1-3/16	2-3/2	WA121900	09910#AW	B/8 x 1-2/36	Part
ZB121920	3/4	1-3/16	7-14	WA121900	WA121908*	3/4 × 1-3/15	
ZB121930	3/4	1-3/16	1+7/12	WA121900	WA(121905	3/4 X 1-3/19	2
ZB121940	34	1-2/16	2.1/2	WA121900	WA121990	3/4 X 1-3/16	2/
ZB142332	7/6	1-7/16	.2	WA182305	WA142390	·7单×1-7/10	
28162325	7/8	1-7/18	1-3/4	WA162303	WA162390	1 x 7-7/16	Ax
2B244580	1.1/2	2.13/18	5	WA244503		1.1/2 x 7 13/15	Ho
28203948	1-14	2-7/16	3	WA203903	WA203990	1-1/4 x 2-7/16	sal
28233964	1-14	-3-7/18	4	WA203800	WA203900	1-1/4 x 2-7/16	008
28203960	1-1,4	2-7/18	5	WA203903	WA203990	1-1/4 x 2-7/16	
29243943	1-14	2-7/16	2	WA243803	WA243990	1-1/2 x 2-7/16	Ax
28243864	1-1/2	2.7/18	4	WA243803	WA243990	1-1/2 8 2-7/16	2
29243860	1+192	2/16	0	WA243903	WA243996	1+1/2 x 2+7(16	2
28234948	5-114	⇒1/16	5	WA254603		1-3/4 x 3-1/16	2
28254964	7-3/4	3-1/15	4	WA264903		3-34 1-3-1/16	1
28254960	\$-3/4	3-1/16	5	WA264905		1-3/4 x.3-1/16	7
28325248	2	3-14	3	WA325200		2×3-14	
ZB325264	2	3 14	4	WA325203		2 x 3 1/4	Z
ZB325260	2	3-14	5	WA325203		2×3-54	2
28325298	3	3-14	6	WA325263		2×3-14	2

Part Number	IC (inches)	OU (nohes)	Length (-rohes)
ZO081722	1/2	1-1/16	1-3/8
20061926	1/2	1-3/16	1-5/8
ZC081935	1/2	1-3/16	2-3/16
20101926	5/8	1-3/16	1-5/8
ZO101935	5/8	1-3(16	2-3/16
20121926	3/4	1-3/16	1-5/8
20121935	3/4	1-3/16	2-3/16

Ball Bearings

Part Number	li) (inches)	OD (inches)
ZA01903	102	1.3/16
ZA081802.	1/2	1-3/16

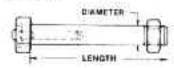
Axles

Hollow ades have zork fitting for lubrication and solid axles are without lubrication fitting. All axles come complete with lock rull.

Axle Number	Тура	Dammer & Longih (inches)
2,063608	Hollow	3/8 x 2-3/14
2,063509	Solid	3/8 x 2-3/10
2.684508	Hollow	1/2 x 2-13/18
Z,4084509	Solid	1/2 x 2-13/16
Z.1085438	Hollow	1/2 x 3-3/8
ZJ065409	Solid	1/2 x 3-3/8
2,1066308	Hollow	1/2 x 3-3/5
ZJ086408	Hollow	1/2 x 4
Z.1087209	Solid	1/2 x 4-1/2
ZJ105608	Hollow	5/8 x 3-1/2
ZJ126808	Hallow	3/4 x 4-1/4
Z/127008	Hollow	3/4 x 4-3/4
ZJ127808	Solid	3/4 x 4-3/4
Z.1168009	Sold	1 # 5
ZJ169600	Sold	1.x 6
ZJ169658	Holiow	1 x 5
ZJ053810	Solid Stainicss	3/8 x 2-3/16
24095668	Hollow Stainless	1/2 x 3-1/2
2,085609	Solid Stainless	1/2 x 3-1/2

Consult Acom for optional slotled nuts

and look pins.



Line drawing (ngit) section view shows typical wheel hub construction with sealed straight and tapered roller bearings. Note spacer tubes are used with tapered roller bearings which increases hub length 1/4" and facilitates proper loading of cup to cone. For non-sealed construction, seal is replaced with retainer and finger washers.

7 Washer is made of Nylon





Top Holf Hustrates Sedied Construction

Solton: Half Hast/ates UnScaled Construction

Replacement Bearings



Roler bearings offer the best compromise between capacity, rollability and value in a bearing. Constructed with a suries of hardened steel rollers encased in a split metal sleeve cover. Our standard bearing type. Made in North America.

ROLLER BEARINGS

OCLEH BEAN	unos				Retainer Washe		
Model Number	ID	00	Length	Steel	Nylon	Double Nylon	Thrust Washer
RE-12125	1/2*	1-1/16*	1-1/混*	RW-12116	NW-12116		TW-12
RB-68150 RB-34150	5/8* 3/4*	1-3/16* 1-3/16*	1-3/8* 1-3/8*	RW-34136 RW-34136	NW-34136 NW-34136	DW-34136 DW-34136	TW-58 TW-34
RB-34178 RB-58200 RB-34200 RB-10200	3/4* 5/8* 3/4* 1*	1-3/16* 1-3/16* 1-3/16* 1-7/16*	1-7/8" 2" 2" 2"	RW-34136 RW-34136 RW-34136 RW-10176	NW-34136 NW-34136 NW-34136	DW-34136 DW-34136 DW-34136	TW-34 TW-58 TW-34 TW-10
RB-10250 RB-14250	1* 1-1/4*	1-15/16" 1-15/16"	2-1/2* 2-1/2*	RW-10115 RW-14115			TW-10 TW-14
RB-10300 RB-14300	1-1/4*	1-15/16° 1-15/16°	3' 3'	RW-10115 RW-14115			TW-10 TW-14
RB-14400 RB-15400	1-1/4* 1-1/2*	2-7/16* 2-7/16*	4* 4*	RW-14276 RW-15276			1W-14 TW-15
RB-14500 RB-15500	1-1/4" 1-1/2"	2-7/16* 2-7/16*	51	RW-14270 RW-15276			TW-14 TW-15



An improved version of our standard roller bearing featuring a solid outer sleeve for simplified installation and improved grease retention. Made in North America.

1-PIECE HEAVY DUTY ROLLER BEARINGS				
Model	ID	OD	Length	
HRB-58150	5/8"	1-3/16"	1-3/6"	
HRB-34150	3/4*	1-3/16"	1-3/6*	
H8B-34178	374*	1-3/16*	1-778*	



A one-piece insert bearing constructed from Deirin material. Our standard bearing for use with stainless steel casters where a carn style brake is used.

ONE PIECE DELRIN BEARINGS

Model Number	D	OD	Length
DB-12150	1/21	1-3/16*	1-5/9*
DB-58150	5/B ⁺	1-3/16*	1-5/8*
DB-34150	3/4*	1-3/16	1-5/8*
DB-12200	1/2*	1-0/16*	2-1/8*
DB-56200	5/8*	1-3/16*	2-1/8*
DB-34200	3/4*	1-3/16"	2-1/8"
DB-10200	57	1-7/16*	2*
DB-10250	5 ¹⁰	1-15/16*	2 0 1-1/4*
DB-14250	1-1/4"	1-15/16*	2 9 1-1/4"
DB-10000	#*(2)(-	1-15/10*	2 @ 1-1/2*
DB-14300	1-1/4*	1-15/16*	2 0 1-1/2*



A fully stainless steel version of our standard roller bearing. Provides higher capacity and improved rollability over Deirin Bearings.

STAINLESS STE	EL ROLLER	BEARINGS (ALL	STAINLESS)
Model Number	D	OD	Longth
SSHB-34150	3/4*	1-3-16"	1-3/8*
SSRB-34200	3/4*	1-3-16*	21
SSRB-10300	12	1-15/16*	3,

SELECTING THE RIGHT BEARING

Finding the right caster for your application involves more than just ciclong the tork and wheel types. The bearing you select for your wheel has a great impact on the overall performance of your caster.

- For improved rollability select Flanged Ball Bearings, Precision Ball Bearings, or Tapered Roller Bearings.
- For increased capacity select Tapered Roller Bearings or Precision Ball Bearings.
- Wet conditions call for Delrin Bearings, Stainless Roller Bearings or Stainless Precision Ball Bearings.
- High Heat applications require either Flanged Brass Bearings or HI-Lax Spanner Bushings.
- Procision Ball Boarings or Tapered Roller Bearings are required for Towline applications.

Remember, whatever bearing you choose, proper regular maintenance is required to keep it working!

Replacement Bearings

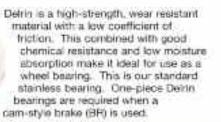


Planged roller bearings are a higher capacity alternative to flanged ball bearings such as those found on our pneumatic and semi-pneumatic wheels. Made in North America.



Flanged brass bearings are ideal for high-heat or conceive environments or for wet applications where Delrin bearings are inappropriate. Made in North America.

FLANGED ROLLER BEARINGS				
Model Number	10	OD	Length	
RF-58138 RF-34138	5/8* 3/4*	1-3/8* 1-3/8*	5* 5*	



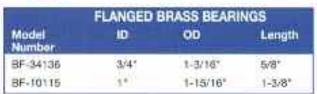
Model Number	ID	OD	Length
DF-12118	1/2*	1-1/8*	1/2*
DF-12136	1/2"	1-3/18*	11/16"
DF-58136	5/8"	1-3/16*	11/16"
DF-34136	3/4"	1-3/16*	11/16"
DF-12138	1/2*	1-3/8*	5/8*
DF-58138	5/8+	1-3/8*	5/8*
DF-34138	3/4*	1-3/8*	5/8*



Our fully sealed precision ball bearings (available in both steel and stainless steel) provide both greatly increased rollability and higher capacity over roller bearings. PBB's are ideal for towline applications.

PRECISION BALL BEARINGS			
Model Number	ID	OD	Seal Type
PBB-6203-2RS PBB-6204-2RS PBB-6205-2RS	17mm 20mm 25mm	40mm 47mm 52mm	Rubber Rubber Rubber

STAINLESS PRE	CISION B	ALL BEARIN	GS
Model Number	ID	OD	Seal Type
SSP88-6203-2RS	17mm	40mm	Rubber
SSPBB-6205-2RS	25mm	52mm	Rubber





Flunged ball bearings provide improved rolability over standard roller bearings however load capticity is reduced.

Model Number	D	00	Longth
88-38118	3/8*	1-1/8*	13/16*
BB-12136	3/2"	1-3/18*	7716*
BB-12138 BB-58138 BB-34138	1/2* 5/8' 3/4*	1-3/8* 1-3/8* 1-3/8*	1/2" 1/2" 1/2"



Our precision machined Top Hat spacers are designed for use with precision ball bearings.

TOP HATS (5 Model Number	ID	R PRECISION BALL BEARINGS) Typical Wheel Hub Length
TH-58	5/16*	1-5/8* (1-11/16* Leg Spacing)
TH-38	3/8"	1-5/8" (1-7/8" Leg Spacing)
TH-12	1/2"	2-3/16" (2-7/16" Leg Spacing)
TH-34S	3/4"	2-3/4" (3" Leg Specing)
TH-34L	3/4*	3-1/4" (3-1/2" Leg Spacing)
TH-34XL	3/4*	2-3/4* (3-1/2* Leg Spacing)

Model Number	ID	Typical Wheel Hub Length
SSTH-38	3/8"	1-5/8* (1-7/8* Leg Spacing)
SSTH-12	1/2*	2-3/16" (2-7/16" Leg Spacing)
SSTH-345	3/4"	2-3/4" (3" Leg Spacing)
SSTH-34L	3/4*	3-1/4" (3-1/2" Leg Spacing)
SSTH-34XL	3/4"	2-3/4" (3-1/2" Leg Spacing)

Bearings / Washers / Seals

12

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

Model Number	ID	Typical Installation
18-12	1/22	Most 1-3/16" Bore Wheels
TB-34	3/4*	Most 1-15/16" Bore Wheels
TB-10	1.	Most 1-15/16" Sore Wheels
TB-14 TB(HD)-14	1-1/4" 1-1/4"	Mast 2-7/16" Bore Wheels Mast 2-7/16" Bore Wheels
TB-15	1+1/2*	Most 2-7/16" Bore Wheels
TB-20	21	Most 2-7/16" Bore Wheels

0

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

Model Number	ai	00
W-12116	1/2*	1-1/16
RW-34136	3/4"	1-3/16"
RW-10176	17	1-7/16
RW-10115	11	1-15/16"
FW-14115	1-174*	1-15/16"
Ptvl-14270	1-1/4*	2-7716"
PW-15276	1-1/2*	2-7/16°

STAINLESS STEEL RETAINER WASHERS		
Model Number	Ø	00
SSRW-34136 SSRW-10115	3/4" 1"	1-3/16" 1-15/16"

Model Number	10
TW-12	1/2"
TW-68	5/8*
TW-34	3/4"
TW-10	3.°
TW-14	1-1/4*
TW-15	1-1/2*

STAINLESS STEEL THRUST WASHEI Model ID		
Number		
SSTW-12	1/21	
SSTW-34	3/4"	
SSTW-10	3.	



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

VUI CA SEA

Model Number	D	OD	Thickness
VS-34136	2/4	1-3/16"	3/32
VS-58136	5/8*	1-3/16*	3/32
VS-10115	1990	1-15/161	1/8*
VS-14115	1-1/4*	1-15/161	1/8*
VS-14276	1-1/4*	2-7/1E*	1/8*
V5-15276	1-1/2*	2-7/1E*	178*



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, FI, SSBW and SSRT Series
HS-HD	HD, LH, SSH0 and SSLH Sares
HS-LO	LD and SSLD Series
HS-LS	LE, LS, SSLE and SSLS Series

NYLON RETAINER WASHERS		
Model Number	ID OD	
NW-12116 NW-34138	1/2* 3/4*	1-1/16* 1-3/16*

DOUBLE NYLON RETAINER WASHERS Model ID OD Number				
Model Number	ID	OD		
DW-34136	3/4*	1-3/16*	n	

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-place 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 (Delrn, Flanged Brass, Flanged Roller and Flanged Ball and Taperad Roller Bearings do not require washers to be installed.

- Casters using Carn 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

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. Practision machinad and cross-drilled to allow for lubrication of the

STEEL SPANNER BUSHINGS Medel ID 00 Length Number SB-5638112 5/161 3/8* 1-1/2" SB-5638196 5/16 3/8* 1-9/16* SB-5612196 5/16* 1/2* 1-9/16* 58-5658111 5/18* 5/8* 1-11/16* SB-56RM178 5/16 12mm 1-7/8" 1/2* SB-3812196 3/8" 1-9/161 SB-3812178 3/8* 1/2* 1-7/8* SE-3858111 3/8* 5/8* 1-11/18" SB-3858178 3/8" 1-7/8* 5/8 SB-1258178 5/音* 1/2* 1-7/8* SB-1258276 1/2* 5/8° 2-7/16* SB-1234178 1/2" 3/4* 1-7/8" 2-7/16* SB-1234276 1/2* 3/4* SB-1210300 1/2* 11 3* 1* 3-1/2* SB-1210312 1/2* 3/4" 5/8* SB-5834178 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" 1" \$B-3410300 3/4* 3* SB-3410312 3/4* 11 3-1/2* SB-1014312 $1 \cdot 1/4^{\circ}$ 3-1/2* т SB-1014412 1. 1-1/4" 4-1/2* SB-1416312 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 unbestable pricing. There is no minimum order guantity 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, Defrin).

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



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

Model Number	P	00	Length
SSB-5612M111	5/16*	12mm	1-11/16
558-5612196	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	5/161	12mm	1-7/8*
SSB-3812196	3/8*	1/2"	1-9/16*
SSE-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/B*
SSB-1234178	1/2*	3/4*	1-7/8"
SSB-1234276	1/2*	3/4"	2-7/16°
SSB-3410300	3/4*	1*	3*
S5B-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.

5/16*	1/2"	1-9/16*
3/8*	1/2*	1-5/8*
1/2*	3/4*	1-7/8*
	3/8*	3/8* 1/2* 1/2* 3/4*

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	D	OD	Longth	
HL-56	5/18*	12mm	1-5/8*	
HL-38	3/8"	15mm	1-7/8*	

Axle Kits



Groces axies are hollow axies that are fitted with a grease hipple to allow periodic lubrication of the wheel bearing.

GREASE AXL	E KITS		
Model Number	Diam.	Length	
GAK-56214	5/16*	2-1/4"	
GAK-56212	5/16*	2-1/2"	
GAK-38214	3/B ⁺	2-1/4"	
GAK-38212	3/B*	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	3/2*	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	(37)	5+1/2*	
GAK-14612	1-1/4*	6-1/2*	
GAH-14700	1-1/4*	7*	
GAR-14130	1-1/4*	13*	

A fully stainless steel version of our standard plain axies.

Nodel Number	Diam.	Length
SAK-55214	5/16*	2-1/4
SSAK-38212	3/8*	2-1/2
SSAK-12300 SSAK-12312	1/2* 1/2*	3* 3-1/2
SSAK-34412 SSAK-34500	3/4*	4-1/2 5*



A fully staniess steel version of our standard grease axies.

STAINLESS ST	EEL GREAS	E AXLE	
Model Number	Diam,	Length	
SSGAK-56214	5/16*	2-1/4*	
55GAK-38212	3/8*	2-1/2*	
SSGAK-12300 SSGAK-12312	1/2* 1/2*	0* 3-1/2*	
SSGAK-34412 SSGAK-34500	3/4" 3/4"	4-1/2° 5*	



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

Model	Diam.	Longth	
Number		10-1-1-1	
AK-25112	1/4*	1+1/2"	
AK-25134	1/47	1-3/4"	
AK-25200	1/4*	2*	
AK-56200	5/16*	2"	
AK-56214	5/16"	2-1/4"	
AK-58212	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"	131	

CHOOSING THE RIGHT AXLE KIT

There are several things to consider when selecting as Asle kit.

- The Diameter of the Axle is determined by the Axle hole size of the caster being used.
- The Langth of the Axle is determined by the fork leg specing 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 Axies 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 Axies are used where periodic lubrication of the wheel bearing is required i.e. Roller Bearings, Dehin Bearings, 1-Piece Heavy Duty Roller Bearings, Stainless Steel Roller Bearings and Tapered Roller Bearings).

BEARINGS / SPARE PARTS

- Split Race Roller Bearing: Most popular for industrial wheel use. Great general duty bearing with high capacity.
- **Caged Roller Bearing:** Hardened rollers are retained in a hardened casing. A superior version of the split race roller bearing.
- **Spanners:** Non-rotating steel sleeve that fits over the axle. Provides hardened surface for bearing rollers; caster legs are locked against it.
- **Tapered Roller Bearing:** Ideal for severe duty applications. Withstands high load, side load, impact and high speed.
- Unlisted Stock: Many odd-sized bearings and hardware are in stock but not listed. Please consult factory.

	1	5
Roller Bearings		1

I.D. (in.)	0.D. (in.)	Length (in.)	Part Number
3/4	1-3/16	1-3/8	RB121922
3/4	1-3/16	1-7/8	RB121930
3/4	1-3/16	2	RB121932
3/4	1-3/16	2-1/2	RB121940
1	1-7/16	2	RB162332
1	1-15/16	2-1/2	RB163140
1	1-15/16	3	RB163148
1	1-15/16	4	RB163164
1-1/4	1-15/16	2	RB203132
1-1/4	1-15/16	2-1/2	RB203140
1-1/4	1-15/16	3	RB203148
1-1/4	1-15/16	4	RB203164
1-1/4	2-7/16	3	RB203948
1-1/4	2-7/16	4	RB203964
1-1/4	2-7/16	5	RB203980
1-1/2	2-7/16	3	RB243948
1-1/2	2-7/16	4	RB243964
1-1/2	2-7/16	5	RB243980
1-3/4	3-1/16	5	RB284980
2	3-1/4	5	RB325280



I.D. (in.)	0.D. (in.)	Length (in.)	Part Number
1-2	3/4	1-5/8	SP081226
1-2	3/4	1-7/8	SP081230
1-2	3/4	2-7/16	SP081239
1-2	3/4	3	SP081248
3/4	1	3	SP121648
3/4	1	3-9/16	SP121657
3/4	1	4-9/16	SP121673
1	1-1/4	3	SP162048
1	1-1/4	3-9/16	SP162057
1	1-1/4	4-9/16	SP162073
1	1-1/4	5-9/16	SP162089
1-1/4	1-1/2	3-9/16	SP202457
1-1/4	1-1/2	4-9/16	SP202473
1-1/4	1-1/2	5-9/16	SP202489

Caged Roller Bearings

I.D. (in.)	0.D. (in.)	Length (in.)	Part Number
3/4	1-3/16	1-3/8	RBC121922
3/4	1-3/16	1-7/8	RBC121930

Tapered Roller Bearings



l.D. (in.)	0.D. (in.)	Part Number
1/2	1.375	4050 Cone
1/2	1.375	4138 Cup
3/4	1.780	LM11949 Cone
3/4	1.780	LM11910 Cup
3/4	1.9375	09067 Cone
3/4	1.9375	09195 Cup
1	1.980	L44643 Cone
1	1.980	L44610 Cup
1	2.437	15101 Cone
1	2.437	15245 Cup
1-1/4	2.327	LM67048 Cone
1-1/4	2.327	LM 67010 Cup
1-1/4	2.437	15125 Cone
1-1/4	2.437	15245 Cup
1-1/2	2.717	13685 Cone
1-1/2	2.717	13621 Cup
2	3.187	L305649 Cone
2	3.187	L305610 Cup

BEARINGS / SPARE PARTS

- **Seals:** Retain lubrication and prevent dirt and debris entry. Standard on all tapered roller bearings. Also available in flat washer type for roller bearings.
- **Snap Rings:** Internally expanding metal rings that lock into bore grooves to provide backing for ball or tapered roller bearings.
- **Ball Bearings:** Easiest rolling bearing. Generally maintenance free. T-bushing available for most sizes.
- **T-Bushings:** Metal T-shaped bushings used in ball bearing setups.; allow axle to be tightened on caster legs without applying force to inner race of bearing.
- **Spacers:** Used in tapered roller bearing setup; allow caster leg to apply required preload to tapered bearing cone.

Seals for Tapered Roller Bearings

I.D.	0.D.	Part
(in.)	(in.)	Number
3/4	1.780	CR12178
3/4	1.937	CR12193
1	1.980	CR16198
1	2.437	CR16244
1-1/4	2.326	CR20233
1-1/4	2.437	CR20244
1-1/2	2.717	CR24272
2	3.187	CR32319



Part Number
SR12
SR16
SR16-1
SR20
SR20-1
SR32



I.D. (in.)	0.D. (in.)	Part Number
3/4	1-3/16	WS1219
3/4	1-3/8	W\$1222
1	1-7/16	WS1623
1	1-9/16	WS1625
1	1-15/16	WS1631
1-1/4	1-15/16	WS2031
1-1/4	2-7/16	WS2039
1-1/2	2-7/16	W\$2439

Metric Precision Ball Bearings



I.D. (in./mm.)	0.D. (in./mm.)	Width (in./mm.)	Part Number
.6693 / 17mm	1.378 / 35mm	.3937 / 10mm	6003
.6693 / 17mm	1.575 / 40mm	.4724 / 12mm	6203
.7874 / 20mm	1.850 / 47mm	.5512 / 14mm	6204
.9843 / 25mm	2.047 / 52mm	.5902 / 15mm	6205
1.181 / 30mm	2.441 / 62mm	.6299 / 16mm	6206

Standard Precision Ball Bearings



	-		
I.D. (in.)	0.D. (in.)	Width (in.)	Part Number
1/2	1.125	.2500	R8
5/8	1.375	.2812	R10
3/4	1.625	.3125	R12
1	2.000	.3750	R16
1-1/4	2.250	.3750	R20

Top Hats / T-Bushings

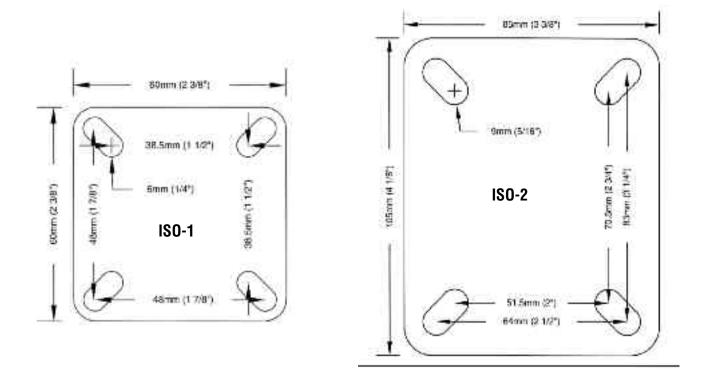


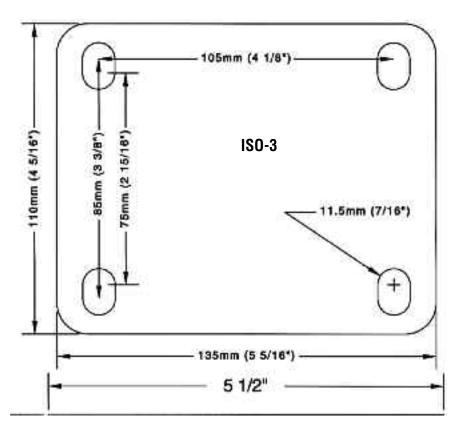
			-
I.D. (in.)	0.D. (in.)	Length* (in.)	Part Number
1/2	.667	15/16	TH081715
1/2	.667	1-7/32	TH081719
3/4	.982	1-1/2	TH122524
3/4	.982	1-3/4	TH122528

*Two T-bushings required per wheel length x 2 = overall

Spacer Washers	d	D	
l.D. (in.)	0.D. (in.)	Width (in.)	Part Number
1/2	3/4	1-4	SW081204
3/4	1	3/8	SW121606
1	1-1/4	3/8	SW162006
1	1-1/4	1/2	SW162008
1-1/4	1-1/2	1/2	SW202408
1-1/2	1-3/4	1/2	SW242808
2	2-1/4	1/2	SW323608

ISO Top Plates





OTHER ISO TOP PLATE SIZES OR BOLT HOLE CENTERS ARE AVAILABLE WITH KINGPINLESS STYLE CASTERS