



MRC®

Marathon® series corrosion resistant mounted products and bearing units



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Marathon® series corrosion-resistant mounted products and bearing units

Few industries challenge bearings with a harsher operating environment than the food and beverage industries. Perhaps no industry works as hard to meet regulations governing contamination. When MRC® introduced the Marathon® series composite mounted bearing units, it was possibly the best solution to the problems associated with bearing failures.

Since then, in addition to the composite units, our HD_i—heavy-duty cast iron—and XD_S—extreme-duty cast stainless steel—have been introduced to more thoroughly meet the needs of the industry.

The HD_i series combines corrosion resistance together with the strength of cast iron—without the problem of flaking nickel plating—and are priced competitively with nickel-plated versions. (See page 3 for details.)

For extremely challenging applications, the XD_S series provides top-of-the-line corrosion resistance and the greatest housing strength available within the Marathon line. (See page 4 for details.)

At the heart of the Marathon units are high-quality, corrosion-resistant insert bearings, available with MRC's ZMaRC® coating or with stainless steel construction. The units' multifunction rubber seals are bonded to AISI 304 stainless steel for superior corrosion resistance, and sealed-for-life lubricants are USDA approved.



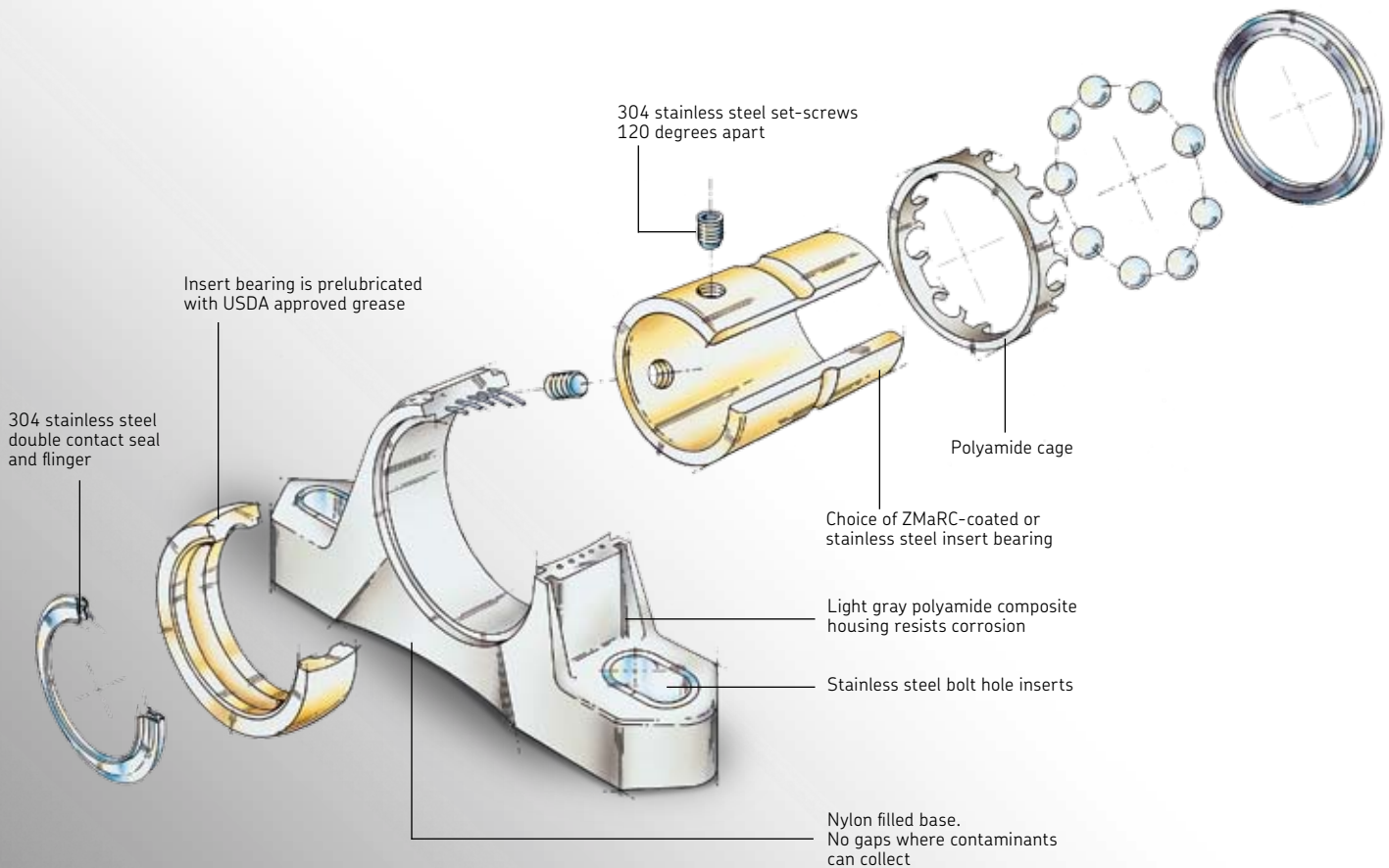
A composite housing with integrated performance features

The Marathon series' composite housing resists citric acids, cooking fats and most chemicals used in food and beverage processing. It is constructed of a thermoplastic composite material that can be up to 61% lighter than cast iron housings. Its spherical bore accommodates the insert bearing's spherical outer surface, enabling the unit to fully compensate for initial bearing seating misalignment.

Plus, the housing is loaded with design and performance advantages:

- Steel coils embedded in the housing contribute to the housing's fracture strength. Radial breaking load is far greater than the static load rating of the bearing. Marathon series housings have possibly the highest fracture strength of any composite unit available.
- A nylon-filled housing base enables the unit to meet flush with its mounting surface. Flush surface-to-surface mounting eliminates gaps—potential areas for contaminants to collect.
- 300 series stainless steel bolt hole inserts provide added strength to each housing foot and prevent corrosion.

- Marathon series units are available in the following housing designs to meet the needs of most food and beverage processing applications:
 - pillow block
 - two- or four-bolt flange
 - tapped base
 - three-bolt bracket flange
 - narrow and wide slot take-up
 - low backing height pillow block
 - low profile two- and three-bolt flange
 - four-bolt piloted flange
 - hanger



ZMaRC[®] coated cast iron units

The Marathon HD_i series is a corrosion-resistant, heavy-duty cast iron series of bearing units. The added strength and durability of the housings make them particularly well suited for applications in red meat, pork and poultry processing facilities where both housing strength and corrosion resistance are a concern.

The cast iron housings, protected with MRC's proven ZMaRC coating, eliminate the flaking problems associated with nickel-plated products, and are matched with our ZMaRC-plated, lubed-for-life, quality insert bearings.

The HD_i series provides a number of cost-saving and performance benefits. As with all Marathon products, MRC's patented two-part stainless steel seals allow the units to operate in heavy washdown environments without regreasing. And since there is no need for relubrication, continuous grease purge is never a problem.

Advantages of the HD_i series:

- Complete ZMaRC coating on all housing surfaces for long-term corrosion resistance.
- No relubrication, even in a washdown environment

- Open spaces on bases and backs of housings are filled with polyurethane, eliminating areas where moisture and product can collect, for a more sanitary housing design.
- Lubed-for-life with USDA approved H1 grease.
- Two-part sealing for maximum protection

Like all Marathon bearing units, Marathon HD_i units contain an AISI 304 stainless steel inner seal and outer seal. These components work in tandem to form an extremely effective sealing system. (See page 5 for more details.)

The HD_i series is available in the following housing designs:

- pillow block
- two- or four-bolt flange
- tapped base



Marathon XD₅ unit— MRC's top-of-the-line units

Extremely challenging applications require an extremely durable unit—the XD₅ units. These housings are AISI 300 series cast stainless steel with MRC's proven stainless steel insert bearings.

The extra strength and toughness of the cast stainless housings are beneficial where loads are very heavy or where shock loads are possible. Also, the safety factor inherent in the cast steel housing is desirable in applications where housing failure could result in injury.

While composite and plated housings are resistant to most of the chemicals in use today, these stainless units are not affected by the strong concentrations of chlorine, hydrogen peroxide and other chemicals sometimes used in washdown procedures.

The XD₅ cast stainless housings were designed especially for use in food and beverage applications. The bases have no recesses to trap debris and bacteria; the exposed surfaces of the housings have no unnecessary crevices or pockets; and the smooth finish minimizes material trapped on the surface allowing a more thorough cleaning.

Like the other members of the Marathon family, the XD₅ series incorporates the proven insert bearing design and patented sealing arrangement (see page 5), and are also greased for life and maintenance free.

Housing styles available include:

- pillow block
- two- and four-bolt flange
- tapped base

MRC XD₅ extreme duty machined stainless steel mounted units

MRC can also offer additional housing styles in machined stainless steel. Made of AISI 300 series stainless steel, these units are machined from solid stainless steel plate rather than cast. These are especially suited for applications where surface roughness is critical, such as instances where chronic bacterial problems have existed. As with the cast housings, there are no unnecessary recesses or cavities to trap debris.

And like the cast stainless units, MRC's excellent stainless steel insert bearings are used.

In addition to the housing styles available in the cast stainless steel line, these machined stainless steel units are also available in the following housing styles:

- three-bolt bracket flange
- wide and narrow slot take-up units
- compact two- and three-bolt flange
- piloted flange units

All machined housings are available through the MRC MTO (Made-To-Order) program.



XD₅ extreme duty housings



Insert bearings

The Marathon units' high quality insert bearings are available with MRC's proprietary ZMaRC coating on the inner and outer rings. ZMaRC resists frequent washdowns with water and with acidic and caustic solutions far better than conventional insert bearings and conventional coatings, such as black oxide. That means greater protection against rust, greater protection against contaminant-related bearing failure and greater assurance that your equipment will pass USDA inspections.

If you prefer stainless steel, MRC will supply the Marathon series with AISI 420C stainless inner and outer rings and balls. The insert bearing's stainless steel set-screws, positioned 120 degrees apart, minimize inner ring distortion while maintaining good gripping strength.



ZMaRC-coated insert bearing



Stainless steel insert bearing

New! Marathon composite units with ZMaRC-coated bearing inserts are now also available from stock with eccentric locking collar mounting.

Eccentric locking collars provide a nearly 360-degree shaft contact for reduced slippage and improved mounting integrity. The eccentric locking collar mounting is primarily intended for use in applications where the direction of rotation is constant. This alternative to setscrew mounting also makes bearing removal easier by providing access to the setscrew dimple created on the shaft surface during the initial mounting procedure. The mechanic is then able to file down the raised edges around the dimple in order to easily slide the bearing off the shaft.

Other Marathon style units with ZMaRC inserts can be ordered with the eccentric locking collar through our Made-to-Order program.



ZMaRC-coated insert bearing with eccentric locking collar

Stainless steel sealing arrangement



A double-protection seal keeps the Marathon units running contaminant free. The sealing arrangement consists of a double-lip, AISI 304 stainless steel inte-

gral seal, an AISI 304 stainless steel flinger and a rubber-backed seal gasket. The flinger and seal's low-friction rubber lips, with optimized axial contact, form a double barrier against pollutants and washdowns. The seal gasket prevents contaminants from migrating around the seal insert's O.D., and the flinger adds mechanical and centrifugal protection against contaminant entry. The space between the insert seal and flinger is filled with USDA food-grade grease for even greater sealing efficiency.

USDA-approved grease

Marathon units are prelubricated-for-life with USDA H1-approved grease. The high quality synthetic grease is odorless and tasteless, and is approved for use in all food processing industries.

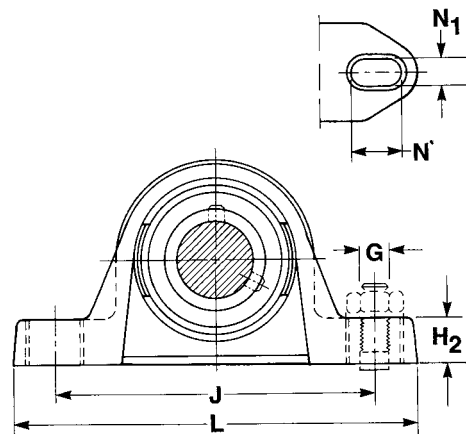
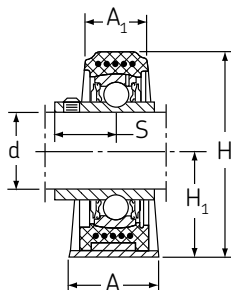
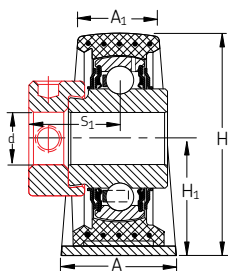
Other Marathon mounted bearing unit grease benefits:

- Excellent internal and external bearing corrosion protection.
- High aging resistance for extended lubricant life.
- High load carrying capacity, which helps prevent premature bearing wear.

CPB composite pillow block units

ZMaRC-coated insert bearing

Available with standard set-screw mounting or
eccentric locking collar mounting



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Pillow block designation	A	A ₁	H	H ₁	H ₂	J Min	J Max	L	N	N ₁	G	S	S ₁	Mass double set-screw	lock- collar	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lb kg	lbf N	lbf N
$\frac{3}{4}$	CPB012ZM	$1\frac{1}{4}$ 32	$\frac{53}{64}$ 21	$2\frac{1}{2}$ 64	$\frac{15}{16}$ 33.3	$\frac{5}{8}$ 16	$\frac{3^{19}}{32}$ 91.5	4 101.5	$\frac{4^{31}}{32}$ 126	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{23}{32}$ 18.3		0.53 0.24		2 860 12 700	1 470 6 550
$\frac{15}{16}$	CPB015ZM	$1\frac{1}{4}$ 32	$\frac{7}{8}$ 22	$2\frac{25}{32}$ 70.5	$\frac{17}{16}$ 36.5	$\frac{5}{8}$ 16	$\frac{3^{29}}{32}$ 99.5	$\frac{4^{11}}{32}$ 110.5	$\frac{5^9}{32}$ 134	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{25}{32}$ 19.8		0.65 0.29		3 150 14 000	1 750 7 800
1	CPB100ZM-L*	$1\frac{1}{4}$ 32	$\frac{7}{8}$ 22	$2\frac{25}{32}$ 70.5	$\frac{17}{16}$ 36.5	$\frac{5}{8}$ 16	$\frac{3^{29}}{32}$ 99.5	$\frac{4^{11}}{32}$ 110.5	$\frac{5^9}{32}$ 134	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{25}{32}$ 19.8	$\frac{1^{15}}{16}$ 27.0	0.62 0.28	0.74 0.33	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	CPB102ZM	$1\frac{37}{64}$ 40	$\frac{63}{64}$ 25	$\frac{3^{15}}{64}$ 82	$\frac{1^{11}}{16}$ 42.9	$\frac{3}{4}$ 19	$\frac{4^{14}}{32}$ 108	$\frac{53}{64}$ 128	$\frac{6^{14}}{32}$ 159	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{7}{8}$ 22.2		1.10 0.50		4 380 19 500	2 520 11 200
$1\frac{3}{16}$	CPB103ZM-L*	$\frac{1^{37}}{64}$ 40	$\frac{63}{64}$ 25	$\frac{3^{15}}{64}$ 82	$\frac{1^{11}}{16}$ 42.9	$\frac{3}{4}$ 19	$\frac{4^{14}}{32}$ 108	$\frac{53}{64}$ 128	$\frac{6^{14}}{32}$ 159	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{7}{8}$ 22.2	$\frac{1^{31}}{16}$ 30.2	1.04 0.47	1.23 0.56	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CPB104ZMR	$1\frac{37}{64}$ 40	$\frac{63}{64}$ 25	$\frac{3^{15}}{64}$ 82	$\frac{1^{11}}{16}$ 42.9	$\frac{3}{4}$ 19	$\frac{4^{14}}{32}$ 108	$\frac{53}{64}$ 128	$\frac{6^{14}}{32}$ 159	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{7}{8}$ 22.2		1.01 0.46		4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CPB104ZM-L*	$\frac{1^{49}}{64}$ 45	$\frac{1^{11}}{16}$ 27	$\frac{3^{21}}{32}$ 93	$\frac{17}{8}$ 47.6	$\frac{3}{4}$ 19	$\frac{4^{11}}{16}$ 119	$\frac{5^{14}}{32}$ 133	$\frac{6^{15}}{32}$ 164	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	25.4	$\frac{1^9}{32}$ 32.5	1.57 0.71	1.94 0.87	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	CPB107ZM-L*	$\frac{1^{49}}{64}$ 45	$\frac{1^{11}}{16}$ 27	$\frac{3^{21}}{32}$ 93	$\frac{17}{8}$ 47.6	$\frac{3}{4}$ 19	$\frac{4^{11}}{16}$ 119	$\frac{5^{14}}{32}$ 133	$\frac{6^{15}}{32}$ 164	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	25.4	$\frac{1^9}{32}$ 32.5	1.37 0.62	1.68 0.76	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	CPB108ZM	$\frac{1^{57}}{64}$ 48	$\frac{1^{31}}{16}$ 30	$\frac{3^{29}}{32}$ 99	$\frac{1^{15}}{16}$ 49.2	$\frac{25}{32}$ 20	$\frac{5^{56}}{64}$ 129	$\frac{5^8}{8}$ 143	$\frac{6^{57}}{64}$ 175	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{1^{31}}{16}$ 30		1.98 0.90		6 900 30 700	4 270 19 000
$1\frac{15}{16}$	CPB115ZM-L* ^{1,2}	$2\frac{1}{4}$ 57.2	$2\frac{1}{4}$ 57.2	$4\frac{5}{8}$ 117.5	$2\frac{1}{4}$ 57.2	$\frac{3}{4}$ 19.1	$\frac{5^{78}}{8}$ 149.2	$\frac{6^{34}}{8}$ 171.5	$\frac{8^{18}}{8}$ 206.4	$\frac{1^{116}}{16}$ 27	$\frac{21}{32}$ 16.7	$\frac{5}{8}$ 16	$\frac{1^9}{32}$ 32.6	$\frac{1^{12}}{2}$ 38.1	2.95 1.34	3.43 1.55	7 890 35 100	5 220 23 200

*L suffix indicates eccentric locking collar

For metric shafts 20mm - 40mm

Shaft dia d	Pillow block designation	A	A ₁	H	H ₁	H ₂	J Min	J Max	L	N	N ₁	G	S ₁	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	CPB20ZM	$1\frac{1}{4}$ 32	$\frac{53}{64}$ 21	$2\frac{1}{2}$ 64	$\frac{15}{16}$ 33.3	$\frac{5}{8}$ 16	$\frac{3^{19}}{32}$ 91.5	4 101.5	$\frac{4^{31}}{32}$ 126	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{23}{32}$ 18.3	0.53 0.24	2 860 12 700	1 470 6 550
25	CPB25ZM	$1\frac{1}{4}$ 32	$\frac{7}{8}$ 22	$2\frac{25}{32}$ 70.5	$\frac{17}{16}$ 36.5	$\frac{5}{8}$ 16	$\frac{3^{29}}{32}$ 99.5	$\frac{4^{11}}{32}$ 110.5	$\frac{5^9}{32}$ 134	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{25}{32}$ 19.8	0.64 0.29	3 150 14 000	1 750 7 800
30	CPB30ZM	$1\frac{37}{64}$ 40	$\frac{63}{64}$ 25	$\frac{3^{15}}{64}$ 82	$\frac{1^{11}}{16}$ 42.9	$\frac{3}{4}$ 19	$\frac{4^{14}}{32}$ 108	$\frac{53}{64}$ 128	$\frac{6^{14}}{32}$ 159	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{7}{8}$ 22.2	1.08 0.49	4 380 19 500	2 520 11 200
35	CPB35ZM	$\frac{1^{49}}{64}$ 45	$\frac{1^{11}}{16}$ 27	$\frac{3^{21}}{32}$ 93	$\frac{17}{8}$ 47.6	$\frac{3}{4}$ 19	$\frac{4^{11}}{16}$ 119	$\frac{5^{14}}{32}$ 133	$\frac{6^{15}}{32}$ 164	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	25.4	1.46 0.66	5 730 25 500	3 440 15 300
40	CPB40ZM	$\frac{1^{57}}{64}$ 48	$\frac{1^{31}}{16}$ 30	$\frac{3^{29}}{32}$ 99	$\frac{1^{15}}{16}$ 49.2	$\frac{25}{32}$ 20	$\frac{5^{56}}{64}$ 129	$\frac{5^8}{8}$ 143	$\frac{6^{57}}{64}$ 175	$\frac{5^{36}}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{1^{31}}{16}$ 30	1.90 0.86	6 900 30 700	4 270 19 000

MRC Marathon series composite mounted bearing units are greased and sealed for life. MRC does not recommend regreasing.

If required, units with relubrication fittings are available for your application. Adding a "G" suffix to the part number denotes a regreaseable unit.

¹ Cast polymer housing. No steel coils.

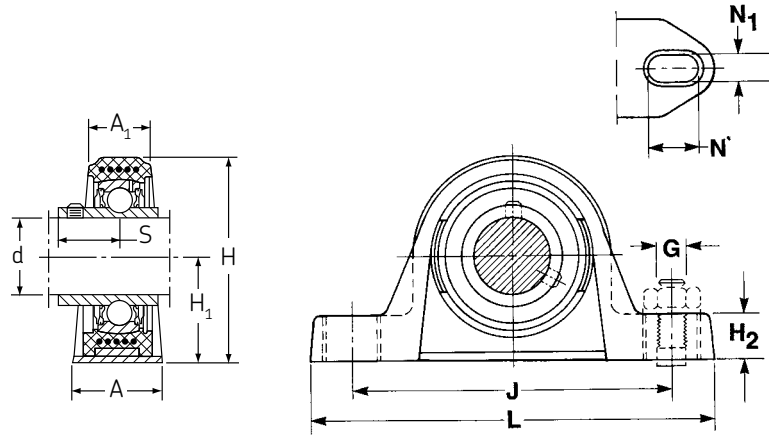
² Check with MRC for availability.

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.



CPB composite pillow block units

Stainless steel insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Pillow block designation	A	A ₁	H	H ₁	H ₂	J Min	J Max	L	N	N ₁	G	S ₁	Mass lb kg	Basic radial load rating dynamic C _r [†] lbf N	static C ₀ [†] lbf N
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	CPB012SS	$1\frac{1}{4}$ 32	$\frac{53}{64}$ 21	$2\frac{1}{2}$ 64	$1\frac{5}{16}$ 33.3	$\frac{5}{8}$ 16	$\frac{319}{32}$ 91.5	4 101.5	$4\frac{31}{32}$ 126	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{23}{32}$ 18.3	0.53 0.24	2 430 10 800	1 470 6 550
1	CPB100SS	$1\frac{1}{4}$ 32	$\frac{7}{8}$ 22	$2\frac{25}{32}$ 70.5	$1\frac{7}{16}$ 36.5	$\frac{5}{8}$ 16	$\frac{329}{32}$ 99.5	$4\frac{11}{32}$ 110.5	$5\frac{9}{32}$ 134	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{25}{32}$ 19.8	0.62 0.28	2 670 11 900	1 750 7 800
$1\frac{3}{16}$	CPB103SS	$1\frac{37}{64}$ 40	$\frac{63}{64}$ 25	$3\frac{15}{64}$ 82	$1\frac{11}{16}$ 42.9	$\frac{3}{4}$ 19	$4\frac{1}{4}$ 108	$\frac{53}{64}$ 128	$6\frac{1}{4}$ 159	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{7}{8}$ 22.2	1.04 0.47	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CPB104SSR	$1\frac{37}{64}$ 40	$\frac{63}{64}$ 25	$3\frac{15}{64}$ 82	$1\frac{11}{16}$ 42.9	$\frac{3}{4}$ 19	$4\frac{1}{4}$ 108	$\frac{53}{64}$ 128	$6\frac{1}{4}$ 159	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{7}{8}$ 22.2	1.04 0.47	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CPB104SS	$1\frac{49}{64}$ 45	$1\frac{1}{16}$ 27	$3\frac{21}{32}$ 93	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19	$4\frac{11}{16}$ 119	$5\frac{1}{4}$ 133	$6\frac{15}{32}$ 164	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	1 25.4	1.57 0.71	4 850 21 600	3 440 15 300
$1\frac{3}{8}$	CPB106SS	$1\frac{49}{64}$ 45	$1\frac{1}{16}$ 27	$3\frac{21}{32}$ 93	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19	$4\frac{11}{16}$ 119	$5\frac{1}{4}$ 133	$6\frac{15}{32}$ 164	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	1 25.4	1.44 0.65	4 850 21 600	3 440 15 300
$1\frac{7}{16}$	CPB107SS	$1\frac{49}{64}$ 45	$1\frac{1}{16}$ 27	$3\frac{21}{32}$ 93	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19	$4\frac{11}{16}$ 119	$5\frac{1}{4}$ 133	$6\frac{15}{32}$ 164	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	1 25.4	1.37 0.62	4 850 21 600	3 440 15 300
$1\frac{1}{2}$	CPB108SS	$1\frac{57}{64}$ 48	$1\frac{3}{16}$ 30	$3\frac{29}{32}$ 99	$1\frac{15}{16}$ 49.2	$\frac{25}{32}$ 20	$5\frac{5}{64}$ 129	$5\frac{5}{8}$ 143	$6\frac{57}{64}$ 175	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$1\frac{3}{16}$ 30	1.98 0.90	5 550 24 700	4 270 19 000

For metric shafts 20mm - 40mm

Shaft dia d	Pillow block designation	A	A ₁	H	H ₁	H ₂	J Min	J Max	L	N	N ₁	G	S ₁	Mass lb kg	Basic radial load rating dynamic C _r [†] lbf N	static C ₀ [†] lbf N
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	CPB20SS	$1\frac{1}{4}$ 32	$\frac{53}{64}$ 21	$2\frac{1}{2}$ 64	$1\frac{5}{16}$ 33.3	$\frac{5}{8}$ 16	$\frac{319}{32}$ 91.5	4 101.5	$4\frac{31}{32}$ 126	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{23}{32}$ 18.3	0.53 0.24	2 430 10 800	1 470 6 550
25	CPB25SS	$1\frac{1}{4}$ 32	$\frac{7}{8}$ 22	$2\frac{25}{32}$ 70.5	$1\frac{7}{16}$ 36.5	$\frac{5}{8}$ 16	$\frac{329}{32}$ 99.5	$4\frac{11}{32}$ 110.5	$5\frac{9}{32}$ 134	$\frac{21}{32}$ 17	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{25}{32}$ 19.8	0.64 0.29	2 670 11 900	1 750 7 800
30	CPB30SS	$1\frac{37}{64}$ 40	$\frac{63}{64}$ 25	$3\frac{15}{64}$ 82	$1\frac{11}{16}$ 42.9	$\frac{3}{4}$ 19	$4\frac{1}{4}$ 108	$\frac{53}{64}$ 128	$6\frac{1}{4}$ 159	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{7}{8}$ 22.2	1.08 0.49	3 660 16 300	2 520 11 200
35	CPB35SS	$1\frac{49}{64}$ 45	$1\frac{1}{16}$ 27	$3\frac{21}{32}$ 93	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19	$4\frac{11}{16}$ 119	$5\frac{1}{4}$ 133	$6\frac{15}{32}$ 164	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	1 25.4	1.46 0.66	4 850 21 600	3 440 15 300
40	CPB40SS	$1\frac{57}{64}$ 48	$1\frac{3}{16}$ 30	$3\frac{29}{32}$ 99	$1\frac{15}{16}$ 49.2	$\frac{25}{32}$ 20	$5\frac{5}{64}$ 129	$5\frac{5}{8}$ 143	$6\frac{57}{64}$ 175	$\frac{53}{64}$ 21	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$1\frac{3}{16}$ 30	1.90 0.86	5 550 24 700	4 270 19 000

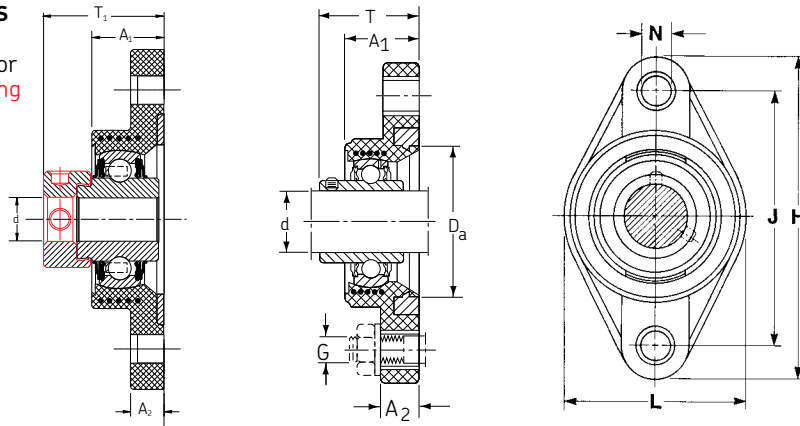


MRC Marathon series composite mounted bearing units are greased and sealed for life. MRC does not recommend regreasing.
[†] If required, units with relubrication fittings are available for your application. Adding a "G" suffix to the part number denotes a regreaseable unit.
[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

C2F composite two-bolt flange units

ZMaRC-coated insert bearing

Available with standard set-screw mounting or
eccentric locking collar mounting



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Flange unit designation	A ₁	A ₂	D _a	H	J	L	N	G	T	T ₁	Mass double set-screw	lock- collar	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lb kg	lbf N	lbf N
$\frac{3}{4}$	C2F012ZM	$\frac{15}{32}$ 29.5	$\frac{19}{32}$ 15	2 50.8	$\frac{4^{13}}{32}$ 112	$\frac{3^{17}}{32}$ 90	$\frac{2^3}{8}$ 60.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{15}}{32}$ 37.3		0.53 0.24		2 860 12 700	1 470 6 550
$\frac{15}{16}$	C2F015ZM	$\frac{1^3}{16}$ 30	$\frac{19}{32}$ 15	$\frac{2^1}{2}$ 63.5	$\frac{4^7}{8}$ 124	$\frac{3^{29}}{32}$ 99	$\frac{2^3}{4}$ 70	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{17}}{32}$ 38.8		0.67 0.30		3 150 14 000	1 750 7 800
1	C2F100ZM-L*	$\frac{1^3}{16}$ 30	$\frac{19}{32}$ 15	$\frac{2^1}{2}$ 63.5	$\frac{4^7}{8}$ 124	$\frac{3^{29}}{32}$ 99	$\frac{2^3}{4}$ 70	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{17}}{32}$ 38.8	$\frac{1^{13}}{16}$ 46	0.62 0.28	0.74 0.33	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	C2F102ZM	$\frac{1^9}{32}$ 33	$\frac{19}{32}$ 15	3 76.2	$\frac{5^{39}}{64}$ 142.5	$\frac{4^{19}}{32}$ 116.5	$\frac{3^{17}}{64}$ 83	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{21}}{32}$ 42.2		0.99 0.45		4 380 19 500	2 520 11 200
$1\frac{3}{16}$	C2F103ZM-L*	$\frac{1^{32}}{32}$ 33	$\frac{19}{32}$ 15	3 76.2	$\frac{5^{39}}{64}$ 142.5	$\frac{4^{19}}{32}$ 116.5	$\frac{3^{17}}{64}$ 83	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{21}}{32}$ 42.2	$\frac{1^{31}}{32}$ 50	0.93 0.42	1.12 0.51	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	C2F104ZMR	$\frac{1^{32}}{32}$ 33	$\frac{19}{32}$ 15	3 76.2	$\frac{5^{39}}{64}$ 142.5	$\frac{4^{19}}{32}$ 116.5	$\frac{3^{17}}{64}$ 83	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{21}}{32}$ 42.2		0.88 0.40		4 380 19 500	2 520 11 200
$1\frac{1}{4}$	C2F104ZM-L*	$\frac{1^3}{8}$ 35	$\frac{2^1}{32}$ 17	$\frac{3^1}{2}$ 88.9	$\frac{6^1}{8}$ 156	$\frac{5^1}{8}$ 130	$\frac{3^{25}}{32}$ 96	$\frac{3^5}{64}$ 14	$\frac{1^1}{2}$ 12	$\frac{1^{53}}{64}$ 46.4	$\frac{2^3}{32}$ 53.2	1.46 0.66	1.83 0.82	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	C2F107ZM-L*	$\frac{1^3}{8}$ 35	$\frac{2^1}{32}$ 17	$\frac{3^1}{2}$ 88.9	$\frac{6^1}{8}$ 156	$\frac{5^1}{8}$ 130	$\frac{3^{25}}{32}$ 96	$\frac{3^5}{64}$ 14	$\frac{1^1}{2}$ 12	$\frac{1^{53}}{64}$ 46.4	$\frac{2^3}{32}$ 53.2	1.28 0.58	1.59 0.72	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	C2F108ZM ¹	$\frac{1^1}{4}$ 31.8	$\frac{9}{16}$ 14.3	$\frac{3^1}{2}$ 88.9	$\frac{6^{25}}{32}$ 172.2	$\frac{5^{21}}{32}$ 143.7	$\frac{4^9}{16}$ 115.9	$\frac{1^7}{32}$ 13.5	$\frac{1^1}{2}$ 12	$\frac{2^1}{32}$ 51.66		1.90 0.86		6 900 30 700	4 270 19 000
$1\frac{15}{16}$	C2F115ZM-L* ^{1,2}	$\frac{1^1}{4}$ 31.8	$\frac{5}{8}$ 15.9	4 101.6	$\frac{7^5}{16}$ 185.7	$\frac{6^3}{16}$ 157.2	$\frac{5^1}{16}$ 128.6	$\frac{1^7}{32}$ 13.5	$\frac{1^1}{2}$ 12	$\frac{2^1}{8}$ 54	$\frac{2^39}{64}$ 66.3	2.25 1.02	2.73 1.23	7 890 35 100	5 220 23 200

*L suffix indicates eccentric locking collar

For metric shafts 20mm - 40mm

Shaft dia d	Flange unit designation	A ₁	A ₂	D _a	H	J	L	N	G	T	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	C2F20ZM	$\frac{15}{32}$ 29.5	$\frac{19}{32}$ 15	2 50.8	$\frac{4^{13}}{32}$ 112	$\frac{3^{17}}{32}$ 90	$\frac{2^3}{8}$ 60.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{15}}{32}$ 37.3	0.53 0.24	2 860 12 700	1 470 6 550
25	C2F25ZM	$\frac{1^3}{16}$ 30	$\frac{19}{32}$ 15	$\frac{2^1}{2}$ 63.5	$\frac{4^7}{8}$ 124	$\frac{3^{29}}{32}$ 99	$\frac{2^3}{4}$ 70	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{17}}{32}$ 38.8	0.64 0.29	3 150 14 000	1 750 7 800
30	C2F30ZM	$\frac{1^9}{32}$ 33	$\frac{19}{32}$ 15	3 76.2	$\frac{5^{39}}{64}$ 142.5	$\frac{4^{19}}{32}$ 116.5	$\frac{3^{17}}{64}$ 83	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^{21}}{32}$ 42.2	0.97 0.44	4 380 19 500	2 520 11 200
35	C2F35ZM	$\frac{1^3}{8}$ 35	$\frac{2^1}{32}$ 17	$\frac{3^1}{2}$ 88.9	$\frac{6^1}{8}$ 156	$\frac{5^1}{8}$ 130	$\frac{3^{25}}{32}$ 96	$\frac{3^5}{64}$ 14	$\frac{1^1}{2}$ 12	$\frac{1^{53}}{64}$ 46.4	1.35 0.61	5 730 25 500	3 440 15 300
40	C2F40ZM ¹	$\frac{1^1}{4}$ 31.8	$\frac{9}{16}$ 14.3	$\frac{3^1}{2}$ 88.9	$\frac{6^{25}}{32}$ 172.2	$\frac{5^{21}}{32}$ 143.7	$\frac{4^9}{16}$ 115.9	$\frac{1^7}{32}$ 13.5	$\frac{1^1}{2}$ 12	$\frac{2^1}{32}$ 51.7	1.90 0.86	6 900 30 700	4 270 19 000



MRC Marathon series composite mounted bearing units are greased and sealed for life. MRC does not recommend regreasing.

If required, units with relubrication fittings are available for your application. Adding a "G" suffix to the part number denotes a regreaseable unit.

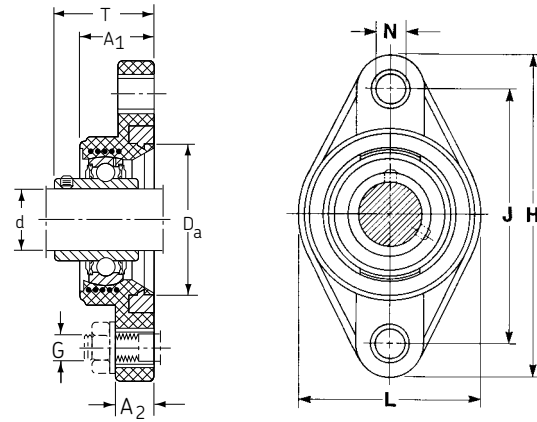
¹ Cast polymer housing, no steel coils.

² Check with MRC for availability.

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

C2F composite two-bolt flange units

Stainless steel insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Flange unit designation	A ₁	A ₂	D _a	H	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	C2F012SS	$\frac{15}{32}$ 29.5	$\frac{19}{32}$ 15	2 50.8	$4\frac{13}{32}$ 112	$3\frac{17}{32}$ 90	$2\frac{3}{8}$ 60.5	$2\frac{9}{64}$ 11.5	$\frac{3}{8}$ 10	$1\frac{15}{32}$ 37.3	0.53 0.24	2 430 10 800	1 470 6 550
1	C2F100SS	$1\frac{3}{16}$ 30	$\frac{19}{32}$ 15	$2\frac{1}{2}$ 63.5	$4\frac{7}{8}$ 124	$3\frac{29}{32}$ 99	$2\frac{3}{4}$ 70	$2\frac{9}{64}$ 11.5	$\frac{3}{8}$ 10	$1\frac{17}{32}$ 38.8	0.62 0.28	2 670 11 900	1 750 7 800
$1\frac{3}{16}$	C2F103SS	$1\frac{9}{32}$ 33	$\frac{19}{32}$ 15	3 76.2	$5\frac{39}{64}$ 142.5	$4\frac{19}{32}$ 116.5	$3\frac{17}{64}$ 83	$2\frac{9}{64}$ 11.5	$\frac{3}{8}$ 10	$1\frac{21}{32}$ 42.2	0.93 0.42	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	C2F104SSR	$1\frac{9}{32}$ 33	$\frac{19}{32}$ 15	3 76.2	$5\frac{39}{64}$ 142.5	$4\frac{19}{32}$ 116.5	$3\frac{17}{64}$ 83	$2\frac{9}{64}$ 11.5	$\frac{3}{8}$ 10	$1\frac{21}{32}$ 42.2	0.93 0.42	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	C2F104SS	$1\frac{3}{8}$ 35	$2\frac{1}{32}$ 17	$3\frac{1}{2}$ 88.9	$6\frac{1}{8}$ 156	$5\frac{1}{8}$ 130	$3\frac{25}{32}$ 96	$3\frac{5}{64}$ 14	$\frac{1}{2}$ 12	$1\frac{53}{64}$ 46.4	1.46 0.66	4 850 21 600	3 440 15 300
$1\frac{3}{8}$	C2F106SS	$1\frac{3}{8}$ 35	$2\frac{1}{32}$ 17	$3\frac{1}{2}$ 88.9	$6\frac{1}{8}$ 156	$5\frac{1}{8}$ 130	$3\frac{25}{32}$ 96	$3\frac{5}{64}$ 14	$\frac{1}{2}$ 12	$1\frac{53}{64}$ 46.4	1.28 0.61	4 850 21 600	3 440 15 300
$1\frac{7}{16}$	C2F107SS	$1\frac{3}{8}$ 35	$2\frac{1}{32}$ 17	$3\frac{1}{2}$ 88.9	$6\frac{1}{8}$ 156	$5\frac{1}{8}$ 130	$3\frac{25}{32}$ 96	$3\frac{5}{64}$ 14	$\frac{1}{2}$ 12	$1\frac{53}{64}$ 46.4	1.28 0.58	4 850 21 600	3 440 15 300
$1\frac{1}{2}$	C2F108SS ¹	$1\frac{1}{4}$ 31.8	$\frac{9}{16}$ 14.3	$3\frac{1}{2}$ 88.9	$6\frac{25}{32}$ 172.2	$5\frac{21}{32}$ 143.7	$4\frac{9}{16}$ 115.9	$1\frac{7}{32}$ 13.5	$\frac{1}{2}$ 12	$2\frac{1}{32}$ 51.7	1.90 0.86	5 550 24 700	4 270 19 000

For metric shafts 20mm - 40mm

Shaft dia d	Flange unit designation	A ₁	A ₂	D _a	H	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	C2F20SS	$\frac{15}{32}$ 29.5	$\frac{19}{32}$ 15	2 50.8	$4\frac{13}{32}$ 112	$3\frac{17}{32}$ 90	$2\frac{3}{8}$ 60.5	$2\frac{9}{64}$ 11.5	$\frac{3}{8}$ 10	$1\frac{15}{32}$ 37.3	0.53 0.24	2 430 10 800	1 470 6 550
25	C2F25SS	$1\frac{3}{16}$ 30	$\frac{19}{32}$ 15	$2\frac{1}{2}$ 63.5	$4\frac{7}{8}$ 124	$3\frac{29}{32}$ 99	$2\frac{3}{4}$ 70	$2\frac{9}{64}$ 11.5	$\frac{3}{8}$ 10	$1\frac{17}{32}$ 38.8	0.64 0.29	2 670 11 900	1 750 7 800
30	C2F30SS	$1\frac{9}{32}$ 33	$\frac{19}{32}$ 15	3 76.2	$5\frac{39}{64}$ 142.5	$4\frac{19}{32}$ 116.5	$3\frac{17}{64}$ 83	$2\frac{9}{64}$ 11.5	$\frac{3}{8}$ 10	$1\frac{21}{32}$ 42.2	0.97 0.44	3 660 16 300	2 520 11 200
35	C2F35SS	$1\frac{3}{8}$ 35	$2\frac{1}{32}$ 17	$3\frac{1}{2}$ 88.9	$6\frac{1}{8}$ 156	$5\frac{1}{8}$ 130	$3\frac{25}{32}$ 96	$3\frac{5}{64}$ 14	$\frac{1}{2}$ 12	$1\frac{53}{64}$ 46.4	1.35 0.61	4 850 21 600	3 440 15 300
40	C2F40SS ¹	$1\frac{1}{4}$ 31.8	$\frac{9}{16}$ 14.3	$3\frac{1}{2}$ 88.9	$6\frac{25}{32}$ 172.2	$5\frac{21}{32}$ 143.7	$4\frac{9}{16}$ 115.9	$1\frac{7}{32}$ 13.5	$\frac{1}{2}$ 12	$2\frac{1}{32}$ 51.7	1.90 0.86	5 550 24 700	4 270 19 000



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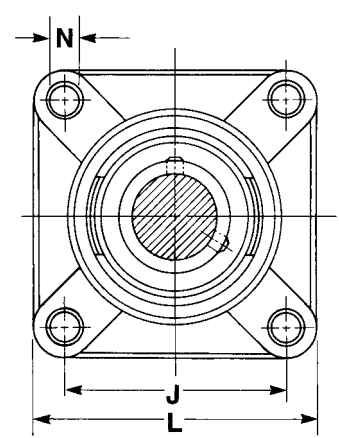
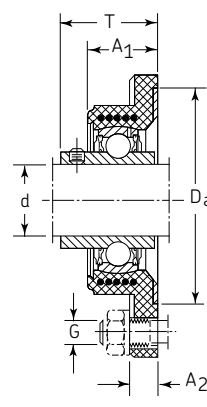
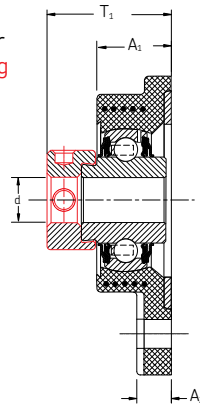
¹ Cast polymer housing, no steel coils.

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

C4F composite four-bolt flange units

ZMaRC-coated insert bearing

Available with standard set-screw mounting or
eccentric locking collar mounting



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Flange unit designation	A ₁	A ₂	D _a	J	L	N	G	T	T ₁	Mass double set-screw	lock- collar	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lb kg	lbf N	lbf N
$\frac{3}{4}$	C4F012ZM	$\frac{13}{16}$ 30	$\frac{19}{32}$ 15	$\frac{211}{16}$ 68.5	$2\frac{1}{2}$ 63.5	$\frac{3}{8}$ 86	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{115}{32}$ 37.3		0.57 0.26		2 860 12 700	1 470 6 550
$\frac{15}{16}$	C4F015ZM	$\frac{17}{32}$ 31	$\frac{19}{32}$ 15	$\frac{215}{16}$ 74.6	$2\frac{3}{4}$ 70	$\frac{3}{4}$ 95	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{117}{32}$ 38.8		0.76 0.34		3 150 14 000	1 750 7 800
1	C4F100ZM-L*	$\frac{17}{32}$ 31	$\frac{19}{32}$ 15	$\frac{215}{16}$ 74.6	$2\frac{3}{4}$ 70	$\frac{3}{4}$ 95	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{117}{32}$ 38.8	$1\frac{13}{16}$ 46	0.71 0.32	0.83 0.37	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	C4F102ZM	$\frac{19}{32}$ 33	$\frac{19}{32}$ 15	$\frac{311}{16}$ 93.7	$3\frac{1}{4}$ 82.5	$\frac{4}{4}$ 108	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{121}{32}$ 42.2		1.07 0.49		4 380 19 500	2 520 11 200
$1\frac{3}{16}$	C4F103ZM-L*	$\frac{19}{32}$ 33	$\frac{19}{32}$ 15	$\frac{311}{16}$ 93.7	$3\frac{1}{4}$ 82.5	$\frac{4}{4}$ 108	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{121}{32}$ 42.2	$1\frac{31}{32}$ 50	1.01 0.46	1.20 0.55	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	C4F104ZMR	$\frac{19}{32}$ 33	$\frac{19}{32}$ 15	$\frac{311}{16}$ 93.7	$3\frac{1}{4}$ 82.5	$\frac{4}{4}$ 108	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{121}{32}$ 42.2		0.97 0.44		4 380 19 500	2 520 11 200
$1\frac{1}{4}$	C4F104ZM-L*	$\frac{13}{8}$ 35	$\frac{21}{32}$ 17	$\frac{43}{16}$ 106.4	$3\frac{5}{8}$ 92	$\frac{45}{8}$ 118	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{153}{64}$ 46.4	$\frac{23}{32}$ 53.2	1.57 0.71	1.94 0.87	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	C4F107ZM-L*	$\frac{13}{8}$ 35	$\frac{21}{32}$ 17	$\frac{43}{16}$ 106.4	$3\frac{5}{8}$ 92	$\frac{45}{8}$ 118	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{153}{64}$ 46.4	$\frac{23}{32}$ 53.2	1.37 0.62	1.68 0.76	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	C4F108ZM	$\frac{17}{32}$ 39	$\frac{21}{32}$ 17	$\frac{49}{16}$ 115.9	4 101.5	$\frac{51}{8}$ 130	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{29}{64}$ 54.2		1.98 0.90		6 900 30 700	4 270 19 000
$1\frac{15}{16}$	C4F115ZM-L* ^{1 2}	$\frac{11}{4}$ 31.8	$\frac{5}{8}$ 15.9	$\frac{415}{16}$ 125.4	$\frac{43}{8}$ 111.1	$\frac{51}{2}$ 139.7	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{21}{8}$ 54.0	$\frac{217}{32}$ 64.3	2.45 1.21	2.93 1.42	7 890 35 100	5 220 23 200

*L suffix indicates eccentric locking collar

For metric shafts 20mm - 40mm

Shaft dia d	Flange unit designation	A ₁	A ₂	D _a	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	C4F20ZM	$\frac{13}{16}$ 30	$\frac{19}{32}$ 15	$\frac{211}{16}$ 68.3	$2\frac{1}{2}$ 63.5	$\frac{3}{8}$ 86	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{115}{32}$ 37.3	0.57 0.26	2 860 12 700	1 470 6 550
25	C4F25ZM	$\frac{17}{32}$ 31	$\frac{19}{32}$ 15	$\frac{215}{16}$ 74.6	$2\frac{3}{4}$ 70	$\frac{3}{4}$ 95	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{117}{32}$ 38.8	0.73 0.33	3 150 14 000	1 750 7 800
30	C4F30ZM	$\frac{19}{32}$ 33	$\frac{19}{32}$ 15	$\frac{311}{16}$ 93.7	$3\frac{1}{4}$ 82.5	$\frac{4}{4}$ 108	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{121}{32}$ 42.2	1.06 0.48	4 380 19 500	2 520 11 200
35	C4F35ZM	$\frac{13}{8}$ 35	$\frac{21}{32}$ 17	$\frac{43}{16}$ 106.4	$3\frac{5}{8}$ 92	$\frac{45}{8}$ 118	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{153}{64}$ 46.4	1.46 0.66	5 730 25 500	3 440 15 300
40	C4F40ZM	$\frac{17}{32}$ 39	$\frac{21}{32}$ 17	$\frac{49}{16}$ 115.9	4 101.5	$\frac{51}{8}$ 130	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{29}{64}$ 54.2	1.92 0.87	6 900 30 700	4 270 19 000



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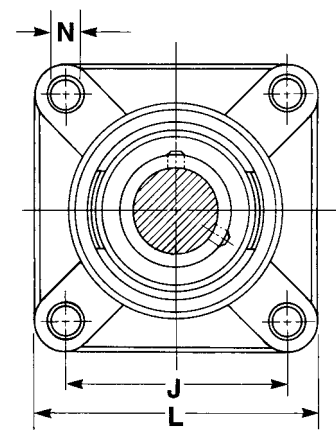
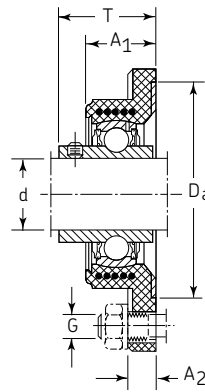
¹ Cast polymer housing, no steel coils.

² Check with MRC for availability.

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

C4F composite four-bolt flange units

Stainless steel insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Flange unit designation	A ₁	A ₂	D _a	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	C4F012SS	$\frac{1^3}{16}$ 30	$\frac{19}{32}$ 15	$2\frac{11}{16}$ 68.3	$2\frac{1}{2}$ 63.5	$\frac{3}{8}$ 86	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^15}{32}$ 37.3	0.57 0.26	2 430 10 800	1 470 6 550
1	C4F100SS	$\frac{1^7}{32}$ 31	$\frac{19}{32}$ 15	$2\frac{15}{16}$ 74.6	$2\frac{3}{4}$ 70	$\frac{3}{4}$ 95	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^17}{32}$ 38.8	0.71 0.32	2 670 11 900	1 750 7 800
$1\frac{3}{16}$	C4F103SS	$\frac{1^9}{32}$ 33	$\frac{19}{32}$ 15	$3\frac{11}{16}$ 93.7	$3\frac{1}{4}$ 82.5	$4\frac{1}{4}$ 108	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^21}{32}$ 42.2	1.01 0.46	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	C4F104SSR	$\frac{1^1}{16}$ 27	$\frac{1}{2}$ 12.7	$3\frac{11}{16}$ 93.7	$3\frac{1}{4}$ 82.5	$4\frac{1}{4}$ 108	$\frac{15}{32}$ 11.9	$\frac{7}{16}$ 11.1	$\frac{1^43}{64}$ 42.5	1.40 0.63	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	C4F104SS	$\frac{1^3}{8}$ 35	$\frac{21}{32}$ 17	$4\frac{3}{16}$ 106.4	$3\frac{5}{8}$ 92	$4\frac{5}{8}$ 118	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{1^53}{64}$ 46.4	1.57 0.71	4 850 21 600	3 440 15 300
$1\frac{3}{8}$	C4F106SS	$\frac{1^3}{8}$ 35	$\frac{21}{32}$ 17	$4\frac{3}{16}$ 106.4	$3\frac{5}{8}$ 92	$4\frac{5}{8}$ 118	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{1^53}{64}$ 46.4	1.46 0.66	4 850 21 600	3 440 15 300
$1\frac{7}{16}$	C4F107SS	$\frac{1^3}{8}$ 35	$\frac{21}{32}$ 17	$4\frac{3}{16}$ 106.4	$3\frac{5}{8}$ 92	$4\frac{5}{8}$ 118	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{1^53}{64}$ 46.4	1.37 0.62	4 850 21 600	3 440 15 300
$1\frac{1}{2}$	C4F108SS	$\frac{1^17}{32}$ 39	$\frac{21}{32}$ 17	$4\frac{9}{16}$ 115.9	4 101.5	$5\frac{1}{8}$ 130	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{2^9}{64}$ 54.2	1.98 0.90	5 550 24 700	4 270 19 000

For metric shafts 20mm - 40mm

Shaft dia d	Flange unit designation	A ₁	A ₂	D _a	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	C4F20SS	$\frac{1^3}{16}$ 30	$\frac{19}{32}$ 15	$2\frac{11}{16}$ 68.3	$2\frac{1}{2}$ 63.5	$\frac{3}{8}$ 86	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^15}{32}$ 37.3	0.57 0.26	2 430 10 800	1 470 6 550
25	C4F25SS	$\frac{1^7}{32}$ 31	$\frac{19}{32}$ 15	$2\frac{15}{16}$ 74.6	$2\frac{3}{4}$ 70	$\frac{3}{4}$ 95	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^17}{32}$ 38.8	0.73 0.33	2 670 11 900	1 750 7 800
30	C4F30SS	$\frac{1^9}{32}$ 33	$\frac{19}{32}$ 15	$3\frac{11}{16}$ 93.7	$3\frac{1}{4}$ 82.5	$4\frac{1}{4}$ 108	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10	$\frac{1^21}{32}$ 42.2	1.06 0.48	3 660 16 300	2 520 11 200
35	C4F35SS	$\frac{1^3}{8}$ 35	$\frac{21}{32}$ 17	$4\frac{3}{16}$ 106.4	$3\frac{5}{8}$ 92	$4\frac{5}{8}$ 118	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{1^53}{64}$ 46.4	1.46 0.66	4 850 21 600	3 440 15 300
40	C4F40SS	$\frac{1^17}{32}$ 39	$\frac{21}{32}$ 17	$4\frac{9}{16}$ 115.9	4 101.5	$5\frac{1}{8}$ 130	$\frac{35}{64}$ 14	$\frac{1}{2}$ 12	$\frac{2^9}{64}$ 54.2	1.92 0.87	5 550 24 700	4 270 19 000

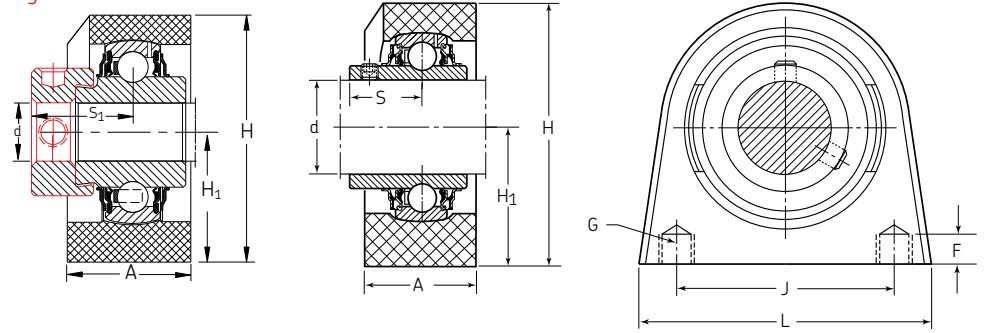


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[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

CTB composite tapped-base units

ZMaRC-coated insert bearing

Available with standard set-screw mounting or
eccentric locking collar mounting



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Tapped-base unit designation	A	H	H ₁	J	L	F	G	S	S ₁	Mass double set-screw	lock- collar	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	UNC threads	in mm	in mm	lb kg	lb kg	lbf N	lbf N
$\frac{3}{4}$	CTB012ZM	$\frac{17}{16}$ 36.5	$2\frac{5}{8}$ 66.7	$1\frac{5}{16}$ 33.3	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{23}{32}$ 18.3		0.51 0.23		2 860 12 700	1 470 6 550
$\frac{15}{16}$	CTB015ZM	$\frac{17}{16}$ 36.5	$2\frac{15}{16}$ 74.6	$\frac{17}{16}$ 36.5	2 50.8	$3\frac{1}{4}$ 82.5	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{25}{32}$ 19.8		0.72 0.32		3 150 14 000	1 750 7 800
1	CTB100ZM-L*	$\frac{17}{16}$ 36.5	$2\frac{15}{16}$ 74.6	$\frac{17}{16}$ 36.5	2 50.8	$3\frac{1}{4}$ 82.5	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{25}{32}$ 19.8	$1\frac{1}{16}$ 27.0	0.67 0.30	0.79 0.35	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	CTB102ZM	$\frac{15}{8}$ 41.3	$3\frac{3}{8}$ 85.7	$1\frac{11}{16}$ 42.9	3 76.2	$4\frac{1}{4}$ 108.0	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2		1.06 0.48		4 380 19 500	2 520 11 200
$1\frac{3}{16}$	CTB103ZM-L*	$\frac{15}{8}$ 41.3	$3\frac{3}{8}$ 85.7	$1\frac{11}{16}$ 42.9	3 76.2	$4\frac{1}{4}$ 108.0	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2	$1\frac{3}{16}$ 30.2	1.00 0.45	1.19 0.54	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CTB104ZMR	$\frac{15}{8}$ 41.3	$3\frac{3}{8}$ 85.7	$1\frac{11}{16}$ 42.9	3 76.2	$4\frac{1}{4}$ 108.0	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2		1.00 0.45		4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CTB104ZM-L*	$1\frac{3}{4}$ 44.5	$3\frac{7}{8}$ 98.4	$1\frac{7}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	$1\frac{9}{32}$ 32.5	1.60 0.73	1.97 0.89	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	CTB107ZM-L*	$1\frac{3}{4}$ 44.5	$3\frac{7}{8}$ 98.4	$1\frac{7}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	$1\frac{9}{32}$ 32.5	1.40 0.64	1.71 0.78	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	CTB108ZM	$1\frac{7}{8}$ 47.6	$4\frac{1}{8}$ 104.8	$1\frac{15}{16}$ 49.2	$3\frac{1}{2}$ 88.9	$4\frac{3}{4}$ 120.7	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	$1\frac{3}{16}$ 30		2.00 0.91		6 900 30 700	4 270 19 000
$1\frac{15}{16}$	CTB115ZM-L*	$2\frac{1}{8}$ 54	$4\frac{3}{4}$ 120.7	$2\frac{1}{4}$ 57.2	4 101.6	$5\frac{3}{4}$ 146.1	$\frac{7}{8}$ 22.2	$\frac{5}{8}$ -11	$1\frac{9}{32}$ 32.6	$1\frac{1}{2}$ 38.1	2.65 1.20	3.13 1.41	7 890 35 100	5 220 23 200

*L suffix indicates eccentric locking collar

For metric shafts 20mm - 40mm

Shaft dia d	Tapped-base unit designation	A	H	H ₁	J	L	F	G	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	UNC threads	in mm	lb kg	lbf N	lbf N
20	CTB20ZM	$\frac{17}{16}$ 36.5	$2\frac{5}{8}$ 66.7	$1\frac{5}{16}$ 33.3	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{23}{32}$ 18.3	0.51 0.23	2 860 12 700	1 470 6 550
25	CTB25ZM	$\frac{17}{16}$ 36.5	$2\frac{15}{16}$ 74.6	$\frac{17}{16}$ 36.5	2 50.8	$3\frac{1}{4}$ 82.5	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{25}{32}$ 19.8	0.67 0.30	3 150 14 000	1 750 7 800
30	CTB30ZM	$\frac{15}{8}$ 41.3	$3\frac{3}{8}$ 85.7	$1\frac{11}{16}$ 42.9	3 76.2	$4\frac{1}{4}$ 108.0	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2	1.00 0.45	4 380 19 500	2 520 11 200
35	CTB35ZM	$1\frac{3}{4}$ 44.5	$3\frac{7}{8}$ 98.4	$1\frac{7}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	1.40 0.64	5 730 25 500	3 440 15 300
40	CTB40ZM	$1\frac{7}{8}$ 47.6	$4\frac{1}{8}$ 104.8	$1\frac{15}{16}$ 49.2	$3\frac{1}{2}$ 88.9	$4\frac{3}{4}$ 120.7	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	$1\frac{3}{16}$ 30	2.00 0.91	6 900 30 700	4 270 19 000

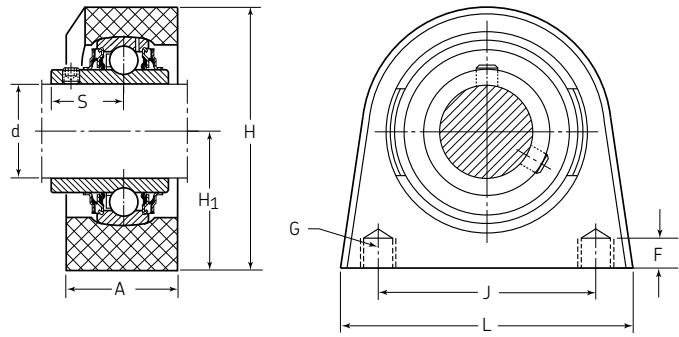


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Cast polymer housing. No steel coils.

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

CTB composite tapped-base units

Stainless steel insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Tapped-base unit designation	A	H	H ₁	J	L	F	G	S ₁	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	UNC threads	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	CTB012SS	$\frac{17}{16}$ 36.5	$\frac{25}{8}$ 66.7	$\frac{15}{16}$ 33.3	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{23}{32}$ 18.3	0.51 0.23	2 430 10 800	1 470 6 550
1	CTB100SS	$\frac{17}{16}$ 36.5	$\frac{25}{8}$ 74.6	$\frac{17}{16}$ 36.5	2 50.8	$\frac{3}{4}$ 82.5	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{25}{32}$ 19.8	0.67 0.30	2 670 11 900	1 750 7 800
$1\frac{1}{16}$	CTB103SS	$\frac{15}{8}$ 41.3	$\frac{33}{8}$ 85.7	$\frac{11}{16}$ 42.9	3 76.2	$\frac{4}{4}$ 108.0	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2	1.00 0.45	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CTB104SSR	$\frac{15}{8}$ 41.3	$\frac{33}{8}$ 85.7	$\frac{11}{16}$ 42.9	3 76.2	$\frac{4}{4}$ 108.0	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	1 25.4	1.30 0.59	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CTB104SS	$\frac{13}{4}$ 44.5	$\frac{37}{8}$ 98.4	$\frac{17}{8}$ 47.6	$\frac{3}{4}$ 82.6	$\frac{4}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	1.60 0.73	4 850 21 600	3 440 15 300
$1\frac{3}{8}$	CTB106SS	$\frac{13}{4}$ 44.5	$\frac{37}{8}$ 98.4	$\frac{17}{8}$ 47.6	$\frac{3}{4}$ 82.6	$\frac{4}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	1.60 0.73	4 850 21 600	3 440 15 300
$1\frac{7}{16}$	CTB107SS	$\frac{13}{4}$ 44.5	$\frac{37}{8}$ 98.4	$\frac{17}{8}$ 47.6	$\frac{3}{4}$ 82.6	$\frac{4}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	1.60 0.73	4 850 21 600	3 440 15 300
$1\frac{1}{2}$	CTB108SS	$\frac{17}{8}$ 47.6	$\frac{41}{8}$ 104.8	$\frac{15}{16}$ 49.2	$\frac{3}{2}$ 88.9	$\frac{4}{4}$ 120.7	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	$\frac{13}{16}$ 30	2.00 0.91	5 550 24 700	4 270 19 000

For metric shafts 20mm - 40mm

Shaft dia d	Tapped-base unit designation	A	H	H ₁	J	L	F	G	S ₁	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	UNC threads	in mm	lb kg	lbf N	lbf N
20	CTB20SS	$\frac{17}{16}$ 36.5	$\frac{25}{8}$ 66.7	$\frac{15}{16}$ 33.3	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{23}{32}$ 18.3	0.51 0.23	2 430 10 800	1 470 6 550
25	CTB25SS	$\frac{17}{16}$ 36.5	$\frac{25}{8}$ 74.6	$\frac{17}{16}$ 36.5	2 50.8	$\frac{3}{4}$ 82.5	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{25}{32}$ 19.8	0.67 0.30	2 670 11 900	1 750 7 800
30	CTB30SS	$\frac{15}{8}$ 41.3	$\frac{33}{8}$ 85.7	$\frac{11}{16}$ 42.9	3 76.2	$\frac{4}{4}$ 108.0	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2	1.00 0.45	3 660 16 300	2 520 11 200
35	CTB35SS	$\frac{13}{4}$ 44.5	$\frac{37}{8}$ 98.4	$\frac{17}{8}$ 47.6	$\frac{3}{4}$ 82.6	$\frac{4}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	1.40 0.64	4 850 21 600	3 440 15 300
40	CTB40SS	$\frac{17}{8}$ 47.6	$\frac{41}{8}$ 104.8	$\frac{15}{16}$ 49.2	$\frac{3}{2}$ 88.9	$\frac{4}{4}$ 120.7	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	$\frac{13}{16}$ 30	2.00 0.91	5 550 24 700	4 270 19 000

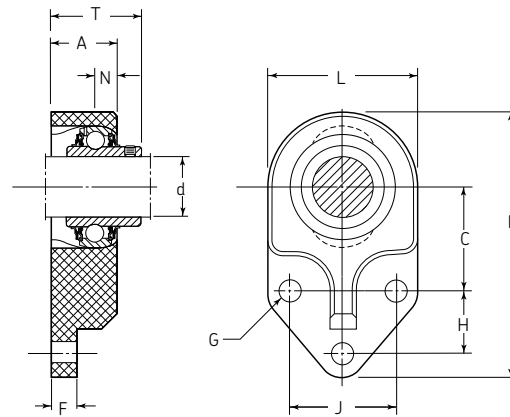


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[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

CBF composite three-bolt bracket flange units

ZMaRC-coated insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Flange unit designation	A	F	B	C	L	H	J	N	G	T	Bolt size	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in	lb kg	lbf N	lbf N
$\frac{3}{4}$	CBF012ZM	$\frac{15}{16}$ 23.8	$\frac{7}{16}$ 11.1	$\frac{4^{11}}{32}$ 110.3	$\frac{1^{11}}{16}$ 42.9	$\frac{2^9}{16}$ 65.1	$\frac{7}{8}$ 22.2	$1\frac{1}{2}$ 38.1	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{15}{16}$ 33.3	$\frac{3}{8}$	0.51 0.23	2 860 12 700	1 470 6 550
$\frac{15}{16}$	CBF015ZM ²	1 25.4	$\frac{1}{2}$ 12.7	$\frac{4^3}{4}$ 120.7	$\frac{1^{13}}{16}$ 46.0	$\frac{2^3}{4}$ 69.9	$\frac{1^1}{8}$ 28.6	$\frac{1^5}{8}$ 41.3	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{17}{16}$ 36.5	$\frac{3}{8}$	0.75 0.34	3 150 14 000	1 750 7 800
1	CBF100ZM	1 25.4	$\frac{1}{2}$ 12.7	$\frac{4^3}{4}$ 120.7	$\frac{1^{13}}{16}$ 46.0	$\frac{2^3}{4}$ 69.9	$\frac{1^1}{8}$ 28.6	$\frac{1^5}{8}$ 41.3	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{17}{16}$ 36.5	$\frac{3}{8}$	0.70 0.32	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	CBF102ZM	$\frac{1^1}{16}$ 27.0	$\frac{1}{2}$ 12.7	$\frac{5^7}{16}$ 138.1	$\frac{2^1}{16}$ 52.4	$\frac{3^1}{4}$ 82.6	$\frac{1^1}{4}$ 31.8	$\frac{1^7}{8}$ 47.6	$\frac{2^5}{64}$ 9.9	$\frac{1^3}{32}$ 10.3	$\frac{1^3^5}{64}$ 39.3	$\frac{3}{8}$	1.10 0.50	4 380 19 500	2 520 11 200
$1\frac{3}{16}$	CBF103ZM	$\frac{1^1}{16}$ 27.0	$\frac{1}{2}$ 12.7	$\frac{5^7}{16}$ 138.1	$\frac{2^1}{16}$ 52.4	$\frac{3^1}{4}$ 82.6	$\frac{1^1}{4}$ 31.8	$\frac{1^7}{8}$ 47.6	$\frac{2^5}{64}$ 9.9	$\frac{1^3}{32}$ 10.3	$\frac{1^3^5}{64}$ 39.3	$\frac{3}{8}$	1.00 0.45	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CBF104ZMR	$\frac{1^1}{16}$ 27.0	$\frac{1}{2}$ 12.7	$\frac{5^7}{16}$ 138.1	$\frac{2^1}{16}$ 52.4	$\frac{3^1}{4}$ 82.6	$\frac{1^1}{4}$ 31.8	$\frac{1^7}{8}$ 47.6	$\frac{2^5}{64}$ 9.9	$\frac{1^3}{32}$ 10.3	$\frac{1^3^5}{64}$ 39.3	$\frac{3}{8}$	1.00 0.45	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CBF104ZM	$\frac{1^7}{32}$ 31.0	$\frac{9}{16}$ 14.3	$\frac{6^3}{16}$ 157.2	$\frac{2^3}{8}$ 60.3	$\frac{3^{13}}{16}$ 96.8	$\frac{1^1}{4}$ 38.1	2 50.8	$\frac{1^3}{32}$ 10.4	$\frac{1^7}{32}$ 13.5	$\frac{1^13}{16}$ 46.0	$\frac{1}{2}$	1.50 0.68	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	CBF107ZM	$\frac{1^7}{32}$ 31.0	$\frac{9}{16}$ 14.3	$\frac{6^3}{16}$ 157.2	$\frac{2^3}{8}$ 60.3	$\frac{3^{13}}{16}$ 96.8	$\frac{1^1}{4}$ 31.8	2 50.8	$\frac{1^3}{32}$ 10.4	$\frac{1^7}{32}$ 13.5	$\frac{1^13}{16}$ 46.0	$\frac{1}{2}$	1.34 0.61	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	CBF108ZM	$\frac{1^1}{4}$ 31.8	$\frac{9}{16}$ 14.3	$\frac{6^{11}}{16}$ 169.9	$\frac{2^9}{16}$ 65.1	$\frac{4^1}{4}$ 108.0	$\frac{1^3}{8}$ 34.9	$\frac{2^1}{4}$ 57.2	$\frac{1^3}{32}$ 10.4	$\frac{1^7}{32}$ 13.5	$\frac{2^1}{64}$ 51.4	$\frac{1}{2}$	1.90 0.86	6 900 30 700	4 270 19 000
$1\frac{15}{16}$	CBF115ZM ²	$\frac{1^1}{4}$ 31.8	$\frac{5}{8}$ 15.9	$\frac{7^5}{8}$ 193.7	$\frac{2^{15}}{16}$ 74.6	$\frac{4^7}{8}$ 123.8	$\frac{1^5}{8}$ 15.9	$\frac{2^3}{4}$ 69.9	$\frac{1^3}{32}$ 10.4	$\frac{1^7}{32}$ 13.5	$\frac{2^1}{8}$ 54.0	$\frac{1}{2}$	2.25 1.02	7 890 35 100	5 220 23 200

For metric shafts 20mm - 40mm

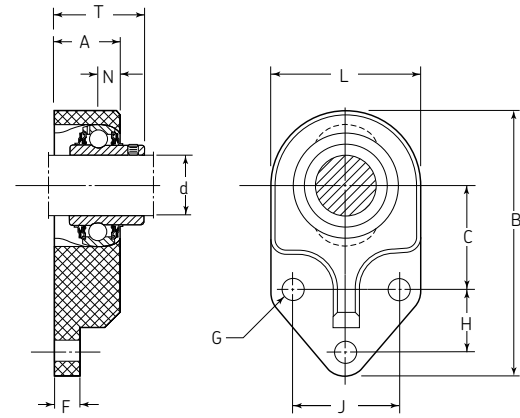
Shaft dia d	Flange unit designation	A	F	B	C	L	H	J	N	G	T	Bolt size	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in	lb kg	lbf N	lbf N
20	CBF20ZM	$\frac{15}{16}$ 23.8	$\frac{7}{16}$ 11.1	$\frac{4^{11}}{32}$ 110.3	$\frac{1^{11}}{16}$ 42.9	$\frac{2^9}{16}$ 65.1	$\frac{7}{8}$ 22.2	$1\frac{1}{2}$ 38.1	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{15}{16}$ 33.3	$\frac{3}{8}$	0.51 0.23	2 860 12 700	1 470 6 550
25	CBF25ZM	1 25.4	$\frac{1}{2}$ 12.7	$\frac{4^3}{4}$ 120.7	$\frac{1^{13}}{16}$ 46.0	$\frac{2^3}{4}$ 69.9	$\frac{1^1}{8}$ 28.6	$\frac{1^5}{8}$ 41.3	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{17}{16}$ 36.5	$\frac{3}{8}$	0.70 0.32	3 150 14 000	1 750 7 800
30	CBF30ZM	$\frac{1^1}{16}$ 27.0	$\frac{1}{2}$ 12.7	$\frac{5^7}{16}$ 138.1	$\frac{2^1}{16}$ 52.4	$\frac{3^1}{4}$ 82.6	$\frac{1^1}{4}$ 31.8	$\frac{1^7}{8}$ 47.6	$\frac{2^5}{64}$ 9.9	$\frac{1^3}{32}$ 10.3	$\frac{1^3^5}{64}$ 39.3	$\frac{3}{8}$	1.00 0.45	4 380 19 500	2 520 11 200
35	CBF35ZM	$\frac{1^7}{32}$ 31.0	$\frac{9}{16}$ 14.3	$\frac{6^3}{16}$ 157.2	$\frac{2^3}{8}$ 60.3	$\frac{3^{13}}{16}$ 96.8	$\frac{1^1}{4}$ 31.8	2 50.8	$\frac{1^3}{32}$ 10.4	$\frac{1^7}{32}$ 13.5	$\frac{1^13}{16}$ 46.0	$\frac{1}{2}$	1.34 0.61	5 730 25 500	3 440 15 300
40	CBF40ZM	$\frac{1^1}{4}$ 31.8	$\frac{9}{16}$ 14.3	$\frac{6^{11}}{16}$ 169.9	$\frac{2^9}{16}$ 65.1	$\frac{4^1}{4}$ 108.0	$\frac{1^3}{8}$ 34.9	$\frac{2^1}{4}$ 57.2	$\frac{1^3}{32}$ 10.4	$\frac{1^7}{32}$ 13.5	$\frac{2^1}{64}$ 51.4	$\frac{1}{2}$	1.90 0.86	6 900 30 700	4 270 19 000



MRC Marathon series composite mounted bearing units are greased and sealed for life. MRC does not recommend regreasing.
If required, units with relubrication fittings are available for your application. Adding a "G" suffix to the part number denotes a regreasable unit.
Cast polymer housing. No steel coils.
² Check with MRC for availability
[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

CBF composite three-bolt bracket flange units

Stainless steel insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Flange unit designation	A	F	B	C	L	H	J	N	G	T	Bolt size	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in	lb kg	lbf N	lbf N
$\frac{3}{4}$	CBF012SS	$\frac{15}{16}$ 23.8	$\frac{7}{16}$ 11.1	$4\frac{11}{32}$ 110.3	$1\frac{11}{16}$ 42.9	$2\frac{9}{16}$ 65.1	$\frac{7}{8}$ 22.2	$1\frac{1}{2}$ 38.1	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{15}{16}$ 33.3	$\frac{3}{8}$	0.51 0.23	2 430 10 800	1 470 6 550
1	CBF100SS	1 25.4	$\frac{1}{2}$ 12.7	$4\frac{3}{4}$ 120.7	$1\frac{13}{16}$ 46.0	$2\frac{3}{4}$ 69.9	$1\frac{1}{8}$ 28.6	$1\frac{5}{8}$ 41.3	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{17}{16}$ 36.5	$\frac{3}{8}$	0.70 0.32	2 670 11 900	1 750 7 800
$1\frac{3}{16}$	CBF103SS	$\frac{11}{16}$ 27.0	$\frac{1}{2}$ 12.7	$5\frac{7}{16}$ 138.1	$2\frac{1}{16}$ 52.4	$3\frac{1}{4}$ 82.6	$1\frac{1}{4}$ 31.8	$1\frac{7}{8}$ 47.6	$\frac{25}{64}$ 9.9	$\frac{13}{32}$ 10.3	$1\frac{35}{64}$ 39.3	$\frac{3}{8}$	1.00 0.45	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CBF104SSR	$\frac{11}{16}$ 27.0	$\frac{1}{2}$ 12.7	$5\frac{7}{16}$ 138.1	$2\frac{1}{16}$ 52.4	$3\frac{1}{4}$ 82.6	$1\frac{1}{4}$ 31.8	$1\frac{7}{8}$ 47.6	$\frac{25}{64}$ 9.9	$\frac{13}{32}$ 10.3	$1\frac{43}{64}$ 42.5	$\frac{3}{8}$	1.30 0.59	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CBF104SS	$\frac{17}{32}$ 31.0	$\frac{9}{16}$ 14.3	$6\frac{3}{16}$ 157.2	$2\frac{3}{8}$ 60.3	$3\frac{13}{16}$ 96.8	$1\frac{1}{4}$ 31.8	2 50.8	$\frac{13}{32}$ 10.4	$\frac{17}{32}$ 13.5	$1\frac{13}{16}$ 46.0	$\frac{1}{2}$	1.50 0.68	4 850 21 600	3 440 15 300
$1\frac{3}{8}$	CBF106SS	$\frac{17}{32}$ 31.0	$\frac{9}{16}$ 14.3	$6\frac{3}{16}$ 157.2	$2\frac{3}{8}$ 60.3	$3\frac{13}{16}$ 96.8	$1\frac{1}{4}$ 31.8	2 50.8	$\frac{13}{32}$ 10.4	$\frac{17}{32}$ 13.5	$1\frac{13}{16}$ 46.0	$\frac{1}{2}$	1.40 0.63	4 850 21 600	3 440 15 300
$1\frac{7}{16}$	CBF107SS	$\frac{17}{32}$ 31.0	$\frac{9}{16}$ 14.3	$6\frac{3}{16}$ 157.2	$2\frac{3}{8}$ 60.3	$3\frac{13}{16}$ 96.8	$1\frac{1}{4}$ 31.8	2 50.8	$\frac{13}{32}$ 10.4	$\frac{17}{32}$ 13.5	$1\frac{13}{16}$ 46.0	$\frac{1}{2}$	1.34 0.61	4 850 21 600	3 440 15 300
$1\frac{1}{2}$	CBF108SS	$1\frac{1}{4}$ 31.8	$\frac{9}{16}$ 14.3	$6\frac{11}{16}$ 169.9	$2\frac{9}{16}$ 65.1	$4\frac{1}{4}$ 108.0	$1\frac{3}{8}$ 34.9	$2\frac{1}{4}$ 57.2	$\frac{13}{32}$ 10.4	$\frac{17}{32}$ 13.5	$2\frac{1}{64}$ 51.4	$\frac{1}{2}$	1.90 0.86	5 550 24 700	4 270 19 000

For metric shafts 20mm - 40mm

Shaft dia d	Flange unit designation	A	F	B	C	L	H	J	N	G	T	Bolt size	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in	lb kg	lbf N	lbf N
20	CBF20SS	$\frac{15}{16}$ 23.8	$\frac{7}{16}$ 11.1	$4\frac{11}{32}$ 110.3	$1\frac{11}{16}$ 42.9	$2\frac{9}{16}$ 65.1	$\frac{7}{8}$ 22.2	$1\frac{1}{2}$ 38.1	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{15}{16}$ 33.3	$\frac{3}{8}$	0.51 0.23	2 430 10 800	1 470 6 550
25	CBF25SS	1 25.4	$\frac{1}{2}$ 12.7	$4\frac{3}{4}$ 120.7	$1\frac{13}{16}$ 46.0	$2\frac{3}{4}$ 69.9	$1\frac{1}{8}$ 28.6	$1\frac{5}{8}$ 41.3	$\frac{11}{32}$ 8.7	$\frac{13}{32}$ 10.3	$\frac{17}{16}$ 36.5	$\frac{3}{8}$	0.70 0.32	2 670 11 900	1 750 7 800
30	CBF30SS	$\frac{11}{16}$ 27.0	$\frac{1}{2}$ 12.7	$5\frac{7}{16}$ 138.1	$2\frac{1}{16}$ 52.4	$3\frac{1}{4}$ 82.6	$1\frac{1}{4}$ 31.8	$1\frac{7}{8}$ 47.6	$\frac{25}{64}$ 9.9	$\frac{13}{32}$ 10.3	$1\frac{35}{64}$ 39.3	$\frac{3}{8}$	1.00 0.45	3 660 16 300	2 520 11 200
35	CBF35SS	$\frac{17}{32}$ 31.0	$\frac{9}{16}$ 14.3	$6\frac{3}{16}$ 157.2	$2\frac{3}{8}$ 60.3	$3\frac{13}{16}$ 96.8	$1\frac{1}{4}$ 31.8	2 50.8	$\frac{13}{32}$ 10.4	$\frac{17}{32}$ 13.5	$1\frac{13}{16}$ 46.0	$\frac{1}{2}$	1.34 0.61	4 850 21 600	3 440 15 300
40	CBF40SS	$1\frac{1}{4}$ 31.8	$\frac{9}{16}$ 14.3	$6\frac{11}{16}$ 169.9	$2\frac{9}{16}$ 65.1	$4\frac{1}{4}$ 108.0	$1\frac{3}{8}$ 34.9	$2\frac{1}{4}$ 57.2	$\frac{13}{32}$ 10.4	$\frac{17}{32}$ 13.5	$2\frac{1}{64}$ 51.4	$\frac{1}{2}$	1.90 0.86	5 550 24 700	4 270 19 000

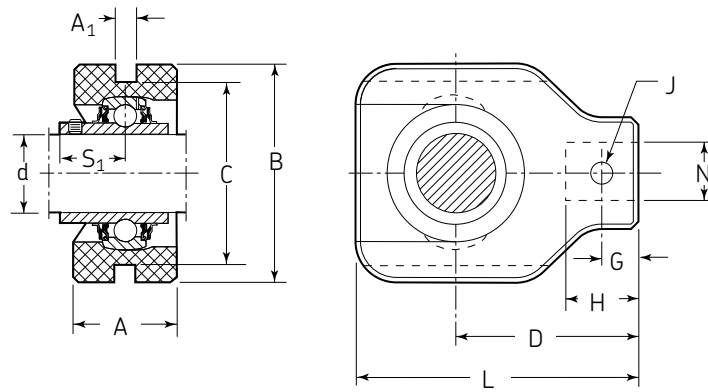


MRC Marathon series composite mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. If required, units with relubrication fittings are available for your application. Adding a "G" suffix to the part number denotes a regreaseable unit. Cast polymer housing. No steel coils.

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

CTN composite narrow slot take-up units

ZMaRC-coated insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Take-up unit designation	A	B	C	L	D	H	G	A ₁	Pin dia J	N	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	CTN012ZM	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{37}{16}$ 87.3	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{23}{32}$ 18.3	0.70 0.32	2 860 12 700	1 470 6 550
$\frac{15}{16}$	CTN015ZM ²	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{39}{16}$ 90.5	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{25}{32}$ 19.8	0.75 0.34	3 150 14 000	1 750 7 800
1	CTN100ZM	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{39}{16}$ 90.5	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{25}{32}$ 19.8	0.70 0.32	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	CTN102ZM	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{45}{16}$ 109.5	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.20 0.54	4 380 19 500	2 520 11 200
$1\frac{3}{16}$	CTN103ZM	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{45}{16}$ 109.5	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.10 0.50	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CTN104ZMR	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{45}{16}$ 109.5	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.10 0.50	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CTN104ZM	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{41}{2}$ 114.3	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	1 25.4	1.60 0.73	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	CTN107ZM	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{41}{2}$ 114.3	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	1 25.4	1.60 0.73	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	CTN108ZM	$\frac{15}{8}$ 41.3	$\frac{43}{4}$ 120.7	4 101.6	$\frac{53}{8}$ 136.5	$\frac{31}{4}$ 82.6	$\frac{15}{32}$ 29.4	$\frac{21}{32}$ 16.7	$\frac{5}{16}$ 7.9	$\frac{3}{8}$ 9.5	$\frac{25}{32}$ 19.8	$\frac{13}{16}$ 30	2.30 1.00	6 900 30 700	4 270 19 000
$1\frac{15}{16}$	CTN115ZM	$\frac{15}{8}$ 41.3	$\frac{43}{4}$ 120.7	4 101.6	$\frac{51}{2}$ 139.7	$\frac{31}{4}$ 82.6	$\frac{15}{32}$ 29.4	$\frac{21}{32}$ 16.7	$\frac{5}{16}$ 7.9	$\frac{3}{8}$ 9.5	$\frac{29}{32}$ 23.0	$\frac{19}{32}$ 32.6	2.55 1.16	7 890 35 100	5 220 23 200

For metric shafts 20mm - 40mm

Shaft dia d	Take-up unit designation	A	B	C	L	D	H	G	A ₁	Pin dia J	N	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	CTN20ZM	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{37}{16}$ 87.3	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{23}{32}$ 18.3	0.70 0.32	2 860 12 700	1 470 6 550
25	CTN25ZM	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{39}{16}$ 90.5	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{25}{32}$ 19.8	0.70 0.32	3 150 14 000	1 750 7 800
30	CTN30ZM	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{45}{16}$ 109.5	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.10 0.50	4 380 19 500	2 520 11 200
35	CTN35ZM	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{41}{2}$ 114.3	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	1 25.4	1.60 0.73	5 730 25 500	3 440 15 300
40	CTN40ZM	$\frac{15}{8}$ 41.3	$\frac{43}{4}$ 120.7	4 101.6	$\frac{53}{8}$ 136.5	$\frac{31}{4}$ 82.6	$\frac{15}{32}$ 29.4	$\frac{21}{32}$ 16.7	$\frac{5}{16}$ 7.9	$\frac{3}{8}$ 9.5	$\frac{25}{32}$ 19.8	$\frac{13}{16}$ 30.0	2.30 1.00	6 900 30 700	4 270 19 000



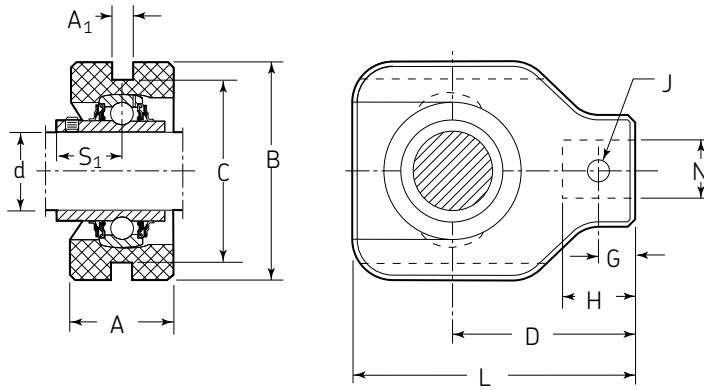
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² Check with MRC for availability

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

CTN composite narrow slot take-up units

Stainless steel insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Take-up unit designation	A	B	C	L	D	H	G	A ₁	Pin dia J	N	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	CTN012SS	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{37}{16}$ 87.3	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{23}{32}$ 18.3	0.70 0.32	2 430 10 800	1 470 6 550
1	CTN100SS	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{37}{16}$ 90.5	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{25}{32}$ 19.8	0.70 0.32	2 670 11 900	1 750 7 800
$1\frac{3}{16}$	CTN103SS	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{45}{16}$ 109.5	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.10 0.50	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CTN104SSR	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{45}{16}$ 109.5	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	1 25.4	1.40 0.63	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CTN104SS	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{41}{2}$ 114.3	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.60 0.73	4 850 21 600	3 440 15 300
$1\frac{3}{8}$	CTN106SS	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{41}{2}$ 114.3	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	1 25.4	1.60 0.73	4 850 21 600	3 440 15 300
$1\frac{7}{16}$	CTN107SS	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{41}{2}$ 114.3	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	1 25.4	1.60 0.73	4 850 21 600	3 440 15 300
$1\frac{1}{2}$	CTN108SS	$\frac{15}{8}$ 41.3	$\frac{43}{4}$ 120.7	4 101.6	$\frac{53}{8}$ 136.5	$\frac{31}{4}$ 82.6	$\frac{15}{32}$ 29.4	$\frac{21}{32}$ 16.7	$\frac{5}{16}$ 7.9	$\frac{3}{8}$ 9.5	$\frac{25}{32}$ 19.8	$\frac{13}{16}$ 30.0	2.30 1.00	5 550 24 700	4 270 19 000

For metric shafts 20mm – 40mm

Shaft dia d	Take-up unit designation	A	B	C	L	D	H	G	A ₁	Pin dia J	N	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	CTN20SS	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{37}{16}$ 87.3	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{23}{32}$ 18.3	0.70 0.32	2 430 10 800	1 470 6 550
25	CTN25SS	$\frac{13}{8}$ 34.9	$\frac{31}{8}$ 79.4	$\frac{25}{8}$ 66.7	$\frac{37}{16}$ 90.5	$\frac{23}{16}$ 55.5	$\frac{7}{8}$ 22.2	$\frac{7}{16}$ 11.1	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{25}{32}$ 19.8	0.70 0.32	2 670 11 900	1 750 7 800
30	CTN30SS	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{45}{16}$ 109.5	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.10 0.50	3 660 16 300	2 520 11 200
35	CTN35SS	$\frac{13}{8}$ 34.9	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{41}{2}$ 114.3	$\frac{211}{16}$ 68.3	1 25.4	$\frac{1}{2}$ 12.7	$\frac{1}{4}$ 6.4	$\frac{5}{16}$ 7.9	$\frac{25}{32}$ 19.8	1 25.4	1.60 0.73	4 850 21 600	3 440 15 300
40	CTN40SS	$\frac{15}{8}$ 41.3	$\frac{43}{4}$ 120.7	4 101.6	$\frac{53}{8}$ 136.5	$\frac{31}{4}$ 82.6	$\frac{15}{32}$ 29.4	$\frac{21}{32}$ 16.7	$\frac{5}{16}$ 7.9	$\frac{3}{8}$ 9.5	$\frac{25}{32}$ 19.8	$\frac{13}{16}$ 30.0	2.30 1.00	5 550 24 700	4 270 19 000

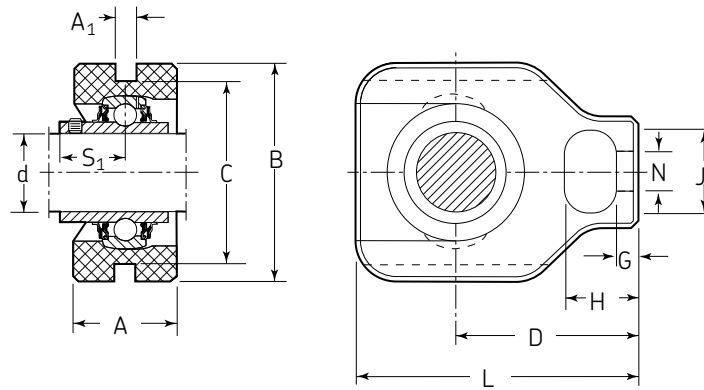


MRC Marathon series composite mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. If required, units with relubrication fittings are available for your application. Adding a "G" suffix to the part number denotes a regreaseable unit. Cast polymer housing. No steel coils.

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

CTW composite wide slot take-up units

ZMaRC-coated insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Take-up unit designation	A	B	C	L	D	H	G	A ₁	J	N	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	CTW012ZM	$\frac{13}{8}$ 34.9	$\frac{35}{8}$ 92.1	3 76.2	$\frac{311}{16}$ 93.7	$\frac{23}{8}$ 60.3	$\frac{11}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{23}{32}$ 18.3	0.81 0.37	2 860 12 700	1 470 6 500
$\frac{15}{16}$	CTW015ZM ²	$\frac{13}{8}$ 34.9	$\frac{35}{8}$ 92.1	3 76.2	$\frac{313}{16}$ 96.8	$\frac{27}{16}$ 61.9	$\frac{11}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{25}{32}$ 19.8	0.92 0.41	3 150 14 000	1 750 7 800
1	CTW100ZM	$\frac{13}{8}$ 34.9	$\frac{35}{8}$ 92.1	3 76.2	$\frac{313}{16}$ 96.8	$\frac{27}{16}$ 61.9	$\frac{11}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{25}{32}$ 19.8	0.87 0.39	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	CTW102ZM	$\frac{15}{8}$ 41.3	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{43}{8}$ 111.1	$\frac{23}{4}$ 69.9	$\frac{15}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$\frac{15}{8}$ 41.3	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.10 0.50	4 380 19 500	2 520 11 200
$\frac{13}{16}$	CTW103ZM	$\frac{15}{8}$ 41.3	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{43}{8}$ 111.1	$\frac{23}{4}$ 69.9	$\frac{15}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$\frac{15}{8}$ 41.3	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.40 0.64	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CTW104ZMR	$\frac{15}{8}$ 41.3	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{43}{8}$ 111.1	$\frac{23}{4}$ 69.9	$\frac{15}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$\frac{15}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.40 0.64	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	CTW104ZM	$\frac{15}{8}$ 41.3	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{413}{16}$ 122.2	3 76.2	$\frac{15}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$\frac{15}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.70 0.77	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	CTW107ZM	$\frac{15}{8}$ 41.3	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{413}{16}$ 122.2	3 76.2	$\frac{15}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$\frac{15}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.50 0.68	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	CTW108ZM	$\frac{115}{16}$ 49.2	$\frac{41}{2}$ 114.3	4 101.6	$\frac{51}{2}$ 139.7	$\frac{37}{16}$ 87.3	$\frac{11}{2}$ 38.1	$\frac{9}{16}$ 14.3	$\frac{11}{16}$ 17.5	$\frac{115}{16}$ 49.2	$\frac{11}{16}$ 27.0	$\frac{13}{16}$ 30.0	2.40 1.10	6 900 30 700	4 270 19 000
$1\frac{15}{16}$	CTW115ZM	$\frac{115}{16}$ 49.2	$\frac{43}{4}$ 120.7	4 101.6	$\frac{513}{16}$ 147.6	$\frac{39}{16}$ 90.5	$\frac{11}{2}$ 38.1	$\frac{9}{16}$ 14.3	$\frac{11}{16}$ 17.5	$\frac{115}{16}$ 49.2	$\frac{11}{16}$ 27.0	$\frac{19}{32}$ 32.6	2.65 2.21	7 890 35 100	5 220 23 200

For metric shafts 20mm – 40mm

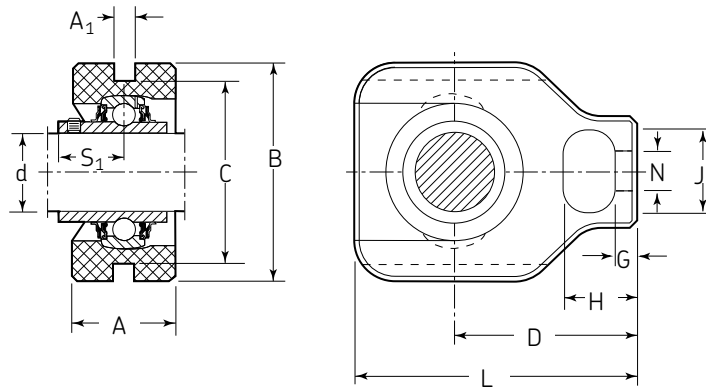
Shaft dia d	Take-up unit designation	A	B	C	L	D	H	G	A ₁	J	N	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	CTW20ZM	$\frac{13}{8}$ 34.9	$\frac{35}{8}$ 92.1	3 76.2	$\frac{311}{16}$ 93.7	$\frac{23}{8}$ 60.3	$\frac{11}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{23}{32}$ 18.3	0.81 0.37	2 860 12 700	1 470 6 500
25	CTW25ZM	$\frac{13}{8}$ 34.9	$\frac{35}{8}$ 92.1	3 76.2	$\frac{313}{16}$ 96.8	$\frac{27}{16}$ 61.9	$\frac{11}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{25}{32}$ 19.8	0.87 0.39	3 150 14 000	1 750 7 800
30	CTW30ZM	$\frac{15}{8}$ 41.3	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{43}{8}$ 111.1	$\frac{23}{4}$ 69.9	$\frac{15}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$\frac{15}{8}$ 41.3	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.40 0.64	4 380 19 500	2 520 11 200
35	CTW35ZM	$\frac{15}{8}$ 41.3	$\frac{41}{8}$ 104.8	$\frac{31}{2}$ 88.9	$\frac{413}{16}$ 122.2	3 76.2	$\frac{15}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$\frac{15}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.50 0.68	5 730 25 500	3 440 15 300
40	CTW40ZM	$\frac{115}{16}$ 49.2	$\frac{41}{2}$ 114.3	4 101.6	$\frac{51}{2}$ 139.7	$\frac{37}{16}$ 87.3	$\frac{11}{2}$ 38.1	$\frac{9}{16}$ 14.3	$\frac{11}{16}$ 17.5	$\frac{115}{16}$ 49.2	$\frac{11}{16}$ 27.0	$\frac{13}{16}$ 30.0	2.40 1.10	6 900 30 700	4 270 19 000



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If required, units with relubrication fittings are available for your application. Adding a "G" suffix to the part number denotes a regreasable unit.
Cast polymer housing. No steel coils.
² Check with MRC for availability
[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

CTW composite wide slot take-up units

Stainless steel insert bearing



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Take-up unit designation	A	B	C	L	D	H	G	A ₁	J	N	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	CTW012SS	$1\frac{3}{8}$ 34.9	$3\frac{5}{8}$ 92.1	3 76.2	$3\frac{11}{16}$ 93.7	$2\frac{3}{8}$ 60.3	$1\frac{1}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{23}{32}$ 18.3	0.81 0.37	2 430 10 800	1 470 6 500
1	CTW100SS	$1\frac{3}{8}$ 34.9	$3\frac{5}{8}$ 92.1	3 76.2	$3\frac{13}{16}$ 96.8	$2\frac{7}{16}$ 61.9	$1\frac{1}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{25}{32}$ 19.8	0.87 0.39	2 670 11 900	1 750 7 800
$1\frac{3}{16}$	CTW103SS	$1\frac{5}{8}$ 41.3	$4\frac{1}{8}$ 104.8	$3\frac{1}{2}$ 88.9	$4\frac{3}{8}$ 111.1	$2\frac{3}{4}$ 69.9	$1\frac{5}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$1\frac{5}{8}$ 41.3	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.40 0.64	3 660 16 300	2 250 11 200
$1\frac{1}{4}$	CTW104SSR	$1\frac{5}{8}$ 41.3	$4\frac{1}{8}$ 104.8	$3\frac{1}{2}$ 88.9	$4\frac{3}{8}$ 111.1	$2\frac{3}{4}$ 69.9	$1\frac{5}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$1\frac{5}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.70 0.77	3 660 16 300	2 520 11 200
$1\frac{1}{4}$	CTW104SS	$1\frac{5}{8}$ 41.3	$4\frac{1}{8}$ 104.8	$3\frac{1}{2}$ 88.9	$4\frac{13}{16}$ 122.2	3 76.2	$1\frac{5}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$1\frac{5}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.70 0.77	4 850 21 600	3 440 15 300
$1\frac{3}{8}$	CTW106SS	$1\frac{5}{8}$ 41.3	$4\frac{1}{8}$ 104.8	$3\frac{1}{2}$ 88.9	$4\frac{13}{16}$ 122.2	3 76.2	$1\frac{5}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$1\frac{5}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.60 0.73	4 850 21 600	3 440 15 300
$1\frac{7}{16}$	CTW107SS	$1\frac{5}{8}$ 41.3	$4\frac{1}{8}$ 104.8	$3\frac{1}{2}$ 88.9	$4\frac{13}{16}$ 122.2	3 76.2	$1\frac{5}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$1\frac{5}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.50 0.68	4 850 21 600	3 440 15 300
$1\frac{1}{2}$	CTW108SS	$1\frac{15}{16}$ 49.2	$4\frac{1}{2}$ 114.3	4 101.6	$5\frac{1}{2}$ 139.7	$3\frac{7}{16}$ 87.3	$1\frac{1}{2}$ 38.1	$\frac{9}{16}$ 14.3	$\frac{11}{16}$ 17.5	$1\frac{15}{16}$ 49.2	$\frac{11}{16}$ 27.0	$\frac{13}{16}$ 30.0	2.40 1.10	5 550 24 700	4 270 19 000

For metric shafts 20mm – 40mm

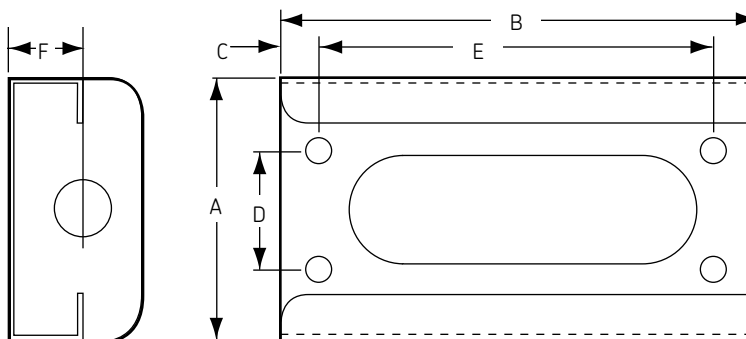
Shaft dia d	Take-up unit designation	A	B	C	L	D	H	G	A ₁	J	N	S ₁	Mass	Basic radial load rating dynamic C [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	CTW20SS	$1\frac{3}{8}$ 34.9	$3\frac{5}{8}$ 92.1	3 76.2	$3\frac{11}{16}$ 93.7	$2\frac{3}{8}$ 60.3	$1\frac{1}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{23}{32}$ 18.3	0.81 0.37	2 430 10 800	1 470 6 500
25	CTW25SS	$1\frac{3}{8}$ 34.9	$3\frac{5}{8}$ 92.1	3 76.2	$3\frac{13}{16}$ 96.8	$2\frac{7}{16}$ 61.9	$1\frac{1}{16}$ 27.0	$\frac{7}{16}$ 11.1	$\frac{17}{32}$ 13.5	$\frac{17}{16}$ 36.5	$\frac{21}{32}$ 16.7	$\frac{25}{32}$ 19.8	0.87 0.39	2 670 11 900	1 750 7 800
30	CTW30SS	$1\frac{5}{8}$ 41.3	$4\frac{1}{8}$ 104.8	$3\frac{1}{2}$ 88.9	$4\frac{3}{8}$ 111.1	$2\frac{3}{4}$ 69.9	$1\frac{5}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$1\frac{5}{8}$ 41.3	$\frac{25}{32}$ 19.8	$\frac{7}{8}$ 22.2	1.40 0.64	3 660 16 300	2 520 11 200
35	CTW35SS	$1\frac{5}{8}$ 41.3	$4\frac{1}{8}$ 104.8	$3\frac{1}{2}$ 88.9	$4\frac{13}{16}$ 122.2	3 76.2	$1\frac{5}{32}$ 29.4	$\frac{3}{8}$ 9.5	$\frac{17}{32}$ 13.5	$1\frac{5}{8}$ 41.3	$\frac{25}{32}$ 19.8	1 25.4	1.50 0.68	4 850 21 600	3 440 15 300
40	CTW40SS	$1\frac{15}{16}$ 49.2	$4\frac{1}{2}$ 114.3	4 101.6	$5\frac{1}{2}$ 139.7	$3\frac{7}{16}$ 87.3	$1\frac{1}{2}$ 38.1	$\frac{9}{16}$ 14.3	$\frac{11}{16}$ 17.5	$1\frac{15}{16}$ 49.2	$\frac{11}{16}$ 27.0	$\frac{13}{16}$ 30.0	2.40 1.10	5 550 24 700	4 270 19 000



MRC Marathon series composite mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. If required, units with relubrication fittings are available for your application. Adding a "G" suffix to the part number denotes a regreaseable unit. Cast polymer housing. No steel coils.

[†] Capacities listed are for the insert bearing only and do not reflect the capacity of the housing. If the application loads exceed 80% of the static capacity (C₀), MRC Applications Engineering should be consulted for a design review.

Stainless steel take-up frames



Narrow slot stainless steel take-up frames (all dimensions are in inches)

Part number	Frame size		Bolt pattern for $\frac{3}{8}$ " bolts				Shaft C/L distance	Frame accepts these shaft sizes:
	Travel	A	B	C	D	E	F	Bearing bore
TFN210SS 3	3		8			$6\frac{1}{2}$		
TFN210SS 6	6	$3\frac{3}{4}$	11	.55	$1\frac{3}{4}$	9	$1\frac{25}{64}$	$\frac{3}{4}$ ", 20mm, 1", 25mm
TFN210SS 9	9		15			$12\frac{1}{2}$		
TFN308SS 3	3		9			$7\frac{1}{2}$		
TFN308SS 6	6	$4\frac{41}{64}$	12	.55	$2\frac{3}{4}$	$10\frac{1}{2}$	$1\frac{27}{32}$	$1\frac{3}{16}$ ", 30mm, $1\frac{1}{4}$ ",
TFN308SS 9	9		15			$13\frac{1}{2}$		$1\frac{3}{8}$ ", 35mm, $1\frac{7}{16}$ "
TFN308SS 12	12		18			$16\frac{1}{2}$		
TFN400SS 3	3		10			$8\frac{1}{2}$		
TFN400SS 6	6		13			$11\frac{1}{2}$		
TFN400SS 9	9	$5\frac{1}{4}$	16	.55	$2\frac{3}{4}$	$14\frac{1}{2}$	$1\frac{63}{64}$	$1\frac{1}{2}$ ", 40mm, $1\frac{15}{16}$ "
TFN400SS 12	12		19			$17\frac{1}{2}$		
TFN400SS 18	18		25			$23\frac{1}{2}$		

MRC take-up frames are constructed of 304 stainless steel and can be equipped with Marathon series composite mounted bearing units. They are designed for conveyor systems used in meat, poultry, fruit, vegetable, beverage and other food industry operations.

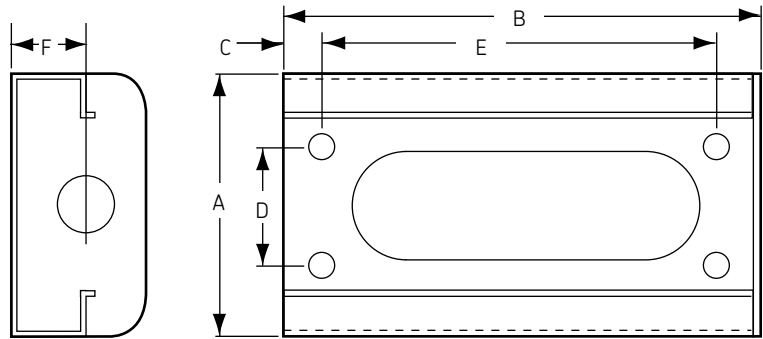
Normally employed at the idler end of conveyor systems, take-up frames support conveyor shafts and act to produce the correct conveyor belt tension. Unlike many take-up frames fabricated on site from

non-stainless materials, MRC stainless take-up frames feature sturdy single-piece construction and resist corrosion from frequent washdowns and harsh food industry chemicals.

MRC take-up frames mount securely to conveyor systems via four mounting bolts. The frames and take-up bearing units may be adapted to fit most existing conveyor configurations.

HACCP-program compatible

MRC stainless take-up frames help support the stringent sanitation requirements of Hazard Analysis Critical Control Point (HACCP) programs. In addition to being corrosion-resistant, the frames have no narrow gaps or crevices that can trap food contaminants. Also, openings in the side and bottom of MRC frames facilitate quick draining during washdowns.



Wide slot stainless steel take-up frames (all dimensions are in inches)

Part number	Frame size		Bolt pattern for $\frac{3}{8}$ " bolts				Shaft C/L distance	Frame accepts these shaft sizes:
	Travel	A	B	C	D	E	F	Bearing bore
TFW300SS 3	3		8			$6\frac{1}{2}$		
TFW300SS 6	6	$4\frac{1}{8}$	11	.55	$2\frac{1}{4}$	$9\frac{1}{2}$	$1\frac{25}{64}$	$\frac{3}{4}$ ", 20mm, 1", 25mm
TFW300SS 9	9		14			$12\frac{1}{2}$		
TFW300SS 12	12		17			$15\frac{1}{2}$		
TFW308SS 3	3		9			$7\frac{1}{2}$		
TFW308SS 6	6		12			$10\frac{1}{2}$		
TFW308SS 9	9	$4\frac{41}{64}$	15	.55	$2\frac{3}{4}$	$12\frac{1}{2}$	$1\frac{27}{32}$	$1\frac{3}{16}$ ", 30mm, $1\frac{1}{4}$ ",
TFW308SS 12	12		18			$16\frac{1}{2}$		$1\frac{3}{8}$ ", 35mm, $1\frac{7}{16}$ "
TFW308SS 18	18		24			$22\frac{1}{2}$		
TFW400SS 3	3		10			$8\frac{1}{2}$		
TFW400SS 6	6		13			$11\frac{1}{2}$		
TFW400SS 9	9	$5\frac{1}{4}$	16	.55	$2\frac{3}{4}$	$14\frac{1}{2}$	$1\frac{63}{64}$	$1\frac{1}{2}$ ", 40mm, $1\frac{15}{16}$ "
TFW400SS 12	12		19			$17\frac{1}{2}$		
TFW400SS 18	18		25			$23\frac{1}{2}$		

Marathon series bearing units

Marathon series bearing units are available separately and may be mounted in MRC take-up frames. These units feature a lightweight thermoplastic housing that resists corrosion from water, citric acid, cleaning agents and most other food industry chemicals. The unit's double-protection sealing arrangement, consisting of an AISI 304 stainless steel insert seal and an AISI

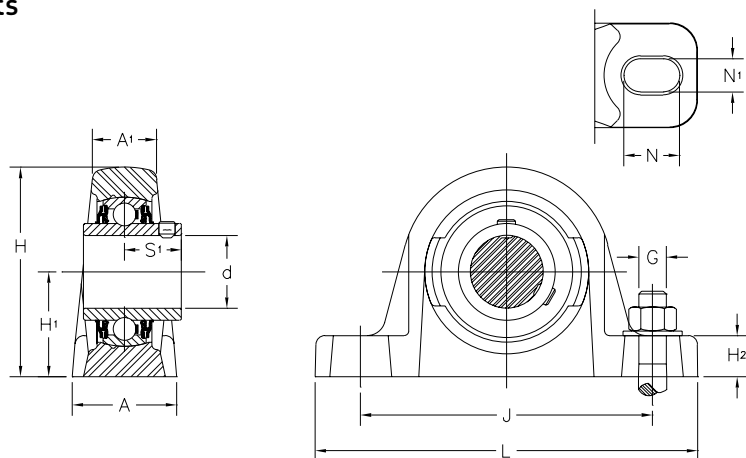
304 stainless steel flinger, protects against both wet and dry contaminants. The units are lubricated for life with a USDA food-grade grease.

Marathon units are available with either a corrosion-resistant ZMaRC-coated insert bearing or a stainless steel bearing.

ZPB ZMaRC-coated cast iron pillow block units

ZMaRC-coated insert bearing

HD_i series



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Pillow block designation	A	A ₁	H	H ₁	H ₂	J Min	J Max	L	N	N ₁	G	S ₁	Mass	Basic radial load rating	
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	ZPB012ZM	$1\frac{1}{4}$ 32.0	$\frac{53}{64}$ 21.0	$2\frac{1}{2}$ 64.0	$1\frac{5}{16}$ 33.3	$\frac{35}{64}$ 14.0	$3\frac{15}{32}$ 88.0	$4\frac{11}{64}$ 106.0	5 127.0	$\frac{13}{16}$ 20.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{23}{32}$ 18.3	1.40 0.64	2 860 12 700	1 470 6 550
$\frac{15}{16}$	ZPB015ZM	$1\frac{7}{16}$ 36.0	$\frac{7}{8}$ 22.0	$2\frac{3}{4}$ 70.0	$1\frac{7}{16}$ 36.5	$\frac{5}{8}$ 16.0	$3\frac{45}{64}$ 94.0	$4\frac{21}{64}$ 110.0	$5\frac{1}{8}$ 130.0	$\frac{49}{64}$ 19.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{25}{32}$ 19.8	1.75 0.79	3 150 14 000	1 750 7 800
1	ZPB100ZM	$1\frac{7}{16}$ 36.0	$\frac{7}{8}$ 22.0	$2\frac{3}{4}$ 70.0	$1\frac{7}{16}$ 36.5	$\frac{5}{8}$ 16.0	$3\frac{45}{64}$ 94.0	$4\frac{21}{64}$ 110.0	$5\frac{1}{8}$ 130.0	$\frac{49}{64}$ 19.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{25}{32}$ 19.8	1.70 0.77	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	ZPB102ZM	$1\frac{37}{64}$ 40.0	1 25.4	$3\frac{15}{64}$ 82.0	$1\frac{11}{16}$ 42.9	$\frac{21}{32}$ 16.5	$4\frac{1}{4}$ 108.0	5 127.0	$5\frac{63}{64}$ 152.0	$\frac{59}{64}$ 23.5	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	$\frac{7}{8}$ 22.2	2.85 1.30	4 380 19 500	2 520 11 200
$1\frac{3}{16}$	ZPB103ZM	$1\frac{37}{64}$ 40.0	1 25.4	$3\frac{15}{64}$ 82.0	$1\frac{11}{16}$ 42.9	$\frac{21}{32}$ 16.5	$4\frac{1}{4}$ 108.0	5 127.0	$5\frac{63}{64}$ 152.0	$\frac{59}{64}$ 23.5	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	$\frac{7}{8}$ 22.2	2.85 1.30	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	ZPB104ZMR	$1\frac{37}{64}$ 40.0	1 25.4	$3\frac{15}{64}$ 82.0	$1\frac{11}{16}$ 42.9	$\frac{21}{32}$ 16.5	$4\frac{1}{4}$ 108.0	5 127.0	$5\frac{63}{64}$ 152.0	$\frac{59}{64}$ 23.5	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	$\frac{7}{8}$ 22.2	2.75 1.25	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	ZPB104ZM	$1\frac{49}{64}$ 45.0	$1\frac{1}{8}$ 28.0	$3\frac{21}{32}$ 93.0	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19.0	$4\frac{43}{64}$ 119.0	$5\frac{15}{64}$ 133.0	$6\frac{19}{64}$ 160.0	$\frac{53}{64}$ 21.0	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	1 25.4	3.65 1.65	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	ZPB107ZM	$1\frac{49}{64}$ 45.0	$1\frac{1}{8}$ 28.0	$3\frac{21}{32}$ 93.0	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19.0	$4\frac{43}{64}$ 119.0	$5\frac{15}{64}$ 133.0	$6\frac{19}{64}$ 160.0	$\frac{53}{64}$ 21.0	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	1 25.4	3.40 1.55	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	ZPB108ZM	$1\frac{57}{64}$ 48.0	$1\frac{7}{32}$ 31.0	$3\frac{29}{32}$ 99.0	$1\frac{15}{16}$ 49.2	$\frac{3}{4}$ 19.0	$4\frac{59}{64}$ 125.0	$5\frac{3}{4}$ 146.0	$6\frac{57}{64}$ 175.0	$\frac{15}{16}$ 24.0	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	$\frac{13}{16}$ 30.0	4.30 1.95	6 900 30 700	4 270 19 000
$1\frac{15}{16}$	ZPB115ZM	$2\frac{1}{8}$ 54.0	$1\frac{3}{8}$ 35.0	$4\frac{1}{2}$ 114.0	$2\frac{1}{4}$ 57.2	$\frac{7}{8}$ 22.0	$5\frac{55}{64}$ 149.0	$6\frac{1}{2}$ 165.0	8 203.0	$\frac{11}{16}$ 27.0	$\frac{45}{64}$ 18.0	$\frac{5}{8}$ 16.0	$\frac{19}{32}$ 32.6	6.30 2.85	7 890 35 100	5 220 23 200

For metric shafts 20mm - 40mm

Shaft dia d	Pillow block designation	A	A ₁	H	H ₁	H ₂	J Min	J Max	L	N	N ₁	G	S ₁	Mass	Basic radial load rating	
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	ZPB20ZM	$1\frac{1}{4}$ 32.0	$\frac{53}{64}$ 21.0	$2\frac{1}{2}$ 64.0	$1\frac{5}{16}$ 33.3	$\frac{35}{64}$ 14.0	$3\frac{15}{32}$ 88.0	$4\frac{11}{64}$ 106.0	5 127.0	$\frac{13}{16}$ 20.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{23}{32}$ 18.3	1.40 0.64	2 860 12 700	1 470 6 550
25	ZPB25ZM	$1\frac{7}{16}$ 36.0	$\frac{7}{8}$ 22.0	$2\frac{3}{4}$ 70.0	$1\frac{7}{16}$ 36.5	$\frac{5}{8}$ 16.0	$3\frac{45}{64}$ 94.0	$4\frac{21}{64}$ 110.0	$5\frac{1}{8}$ 130.0	$\frac{49}{64}$ 19.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{25}{32}$ 19.8	1.70 0.77	3 150 14 000	1 750 7 800
30	ZPB30ZM	$1\frac{37}{64}$ 40.0	1 25.4	$3\frac{15}{64}$ 82.0	$1\frac{11}{16}$ 42.9	$\frac{21}{32}$ 16.5	$4\frac{1}{4}$ 108.0	5 127.0	$5\frac{63}{64}$ 152.0	$\frac{59}{64}$ 23.5	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	$\frac{7}{8}$ 22.2	2.85 1.30	4 380 19 500	2 520 11 200
35	ZPB35ZM	$1\frac{49}{64}$ 45.0	$1\frac{1}{8}$ 28.0	$3\frac{21}{32}$ 93.0	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19.0	$4\frac{43}{64}$ 119.0	$5\frac{15}{64}$ 133.0	$6\frac{19}{64}$ 160.0	$\frac{53}{64}$ 21.0	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	1 25.4	3.65 1.65	5 730 25 500	3 440 15 300
40	ZPB40ZM	$1\frac{57}{64}$ 48.0	$1\frac{7}{32}$ 31.0	$3\frac{29}{32}$ 99.0	$1\frac{15}{16}$ 49.2	$\frac{3}{4}$ 19.0	$4\frac{59}{64}$ 125.0	$5\frac{3}{4}$ 146.0	$6\frac{57}{64}$ 175.0	$\frac{15}{16}$ 24.0	$\frac{35}{64}$ 14.0	$\frac{1}{2}$ 12.7	$\frac{13}{16}$ 30.0	4.30 1.95	6 900 30 700	4 270 19 000



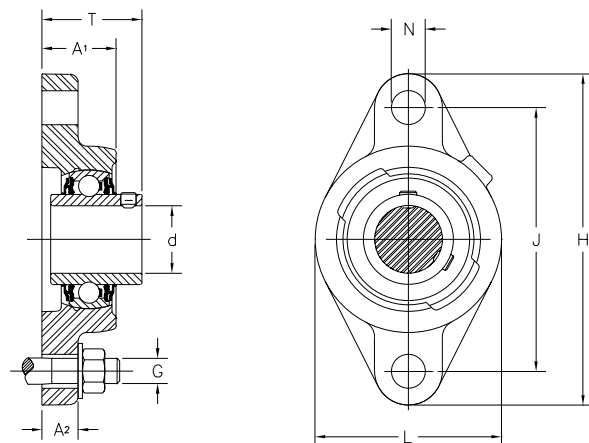
* Metric units are supplied through the Made-To-Order (MTO) Program

MRC Marathon series mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. However, in the event that regreasing is required, a stainless steel grease zerk is packaged with each unit.

Z2F ZMaRC-coated cast iron two-bolt flange units

ZMaRC-coated insert bearing

HD_i series



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Flange unit designation	A ₁	A ₂	H	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	Z2F012ZM	$\frac{31}{32}$ 24.6	$\frac{7}{16}$ 11.1	$\frac{413}{32}$ 111.9	$\frac{317}{32}$ 89.7	$\frac{23}{8}$ 60.3	$\frac{7}{16}$ 11.1	$\frac{3}{8}$ 10.0	$\frac{115}{32}$ 37.3	0.90 0.41	2 860 12 700	1 470 6 550
$\frac{15}{16}$	Z2F015ZM	$\frac{13}{16}$ 30.2	$\frac{5}{8}$ 15.9	$\frac{457}{64}$ 123.8	$\frac{357}{64}$ 98.8	$\frac{23}{4}$ 69.9	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{117}{32}$ 38.8	1.35 0.61	3 150 14 000	1 750 7 800
1	Z2F100ZM	$\frac{13}{16}$ 30.2	$\frac{5}{8}$ 15.9	$\frac{457}{64}$ 123.8	$\frac{357}{64}$ 98.8	$\frac{23}{4}$ 69.9	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{117}{32}$ 38.8	1.30 0.59	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	Z2F102ZM	$\frac{9}{32}$ 32.5	$\frac{17}{32}$ 13.5	$\frac{59}{16}$ 141.3	$\frac{419}{32}$ 116.7	$\frac{31}{8}$ 79.4	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{121}{32}$ 42.2	2.05 0.93	4 380 19 500	2 520 11 200
$1\frac{3}{16}$	Z2F103ZM	$\frac{9}{32}$ 32.5	$\frac{17}{32}$ 13.5	$\frac{59}{16}$ 141.3	$\frac{419}{32}$ 116.7	$\frac{31}{8}$ 79.4	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{121}{32}$ 42.2	2.00 0.91	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	Z2F104ZMR	$\frac{9}{32}$ 32.5	$\frac{17}{32}$ 13.5	$\frac{59}{16}$ 141.3	$\frac{419}{32}$ 116.7	$\frac{31}{8}$ 79.4	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{121}{32}$ 42.2	1.95 0.88	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	Z2F104ZM	$\frac{11}{32}$ 34.1	$\frac{9}{16}$ 14.3	$\frac{61}{8}$ 155.6	$\frac{51}{8}$ 130.2	$\frac{35}{8}$ 92.1	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{127}{32}$ 46.4	2.85 1.30	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	Z2F107ZM	$\frac{11}{32}$ 34.1	$\frac{9}{16}$ 14.3	$\frac{61}{8}$ 155.6	$\frac{51}{8}$ 130.2	$\frac{35}{8}$ 92.1	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{127}{32}$ 46.4	2.75 1.25	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	Z2F108ZM	$\frac{17}{32}$ 38.9	$\frac{9}{16}$ 14.3	$\frac{63}{4}$ 171.5	$\frac{521}{32}$ 143.7	4 101.6	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{21}{8}$ 54.2	3.75 1.70	6 900 30 700	4 270 19 000
$1\frac{15}{16}$	Z2F115ZM	$\frac{123}{32}$ 43.7	$\frac{25}{32}$ 19.8	$\frac{77}{16}$ 188.9	$\frac{63}{16}$ 157.2	$\frac{49}{16}$ 115.9	$\frac{5}{8}$ 15.9	$\frac{9}{16}$ 14.0	$\frac{23}{8}$ 60.6	5.05 2.30	7 890 35 100	5 220 23 200

For metric shafts 20mm - 40mm

Shaft dia d	Flange unit designation	A ₁	A ₂	H	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	Z2F20ZM	$\frac{31}{32}$ 24.6	$\frac{7}{16}$ 11.1	$\frac{413}{32}$ 111.9	$\frac{317}{32}$ 89.7	$\frac{23}{8}$ 60.3	$\frac{7}{16}$ 11.1	$\frac{3}{8}$ 10.0	$\frac{115}{32}$ 37.3	0.90 0.41	2 860 12 700	1 470 6 550
25	Z2F25ZM	$\frac{13}{16}$ 30.2	$\frac{5}{8}$ 15.9	$\frac{457}{64}$ 123.8	$\frac{357}{64}$ 98.8	$\frac{23}{4}$ 69.9	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{117}{32}$ 38.8	1.30 0.59	3 150 14 000	1 750 7 800
30	Z2F30ZM	$\frac{9}{32}$ 32.5	$\frac{17}{32}$ 13.5	$\frac{59}{16}$ 141.3	$\frac{419}{32}$ 116.7	$\frac{31}{8}$ 79.4	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{121}{32}$ 42.2	2.05 0.93	4 380 19 500	2 520 11 200
35	Z2F35ZM	$\frac{11}{32}$ 34.1	$\frac{9}{16}$ 14.3	$\frac{61}{8}$ 155.6	$\frac{51}{8}$ 130.2	$\frac{35}{8}$ 92.1	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{127}{32}$ 46.4	2.85 1.30	5 730 25 500	3 440 15 300
40	Z2F40ZM	$\frac{17}{32}$ 38.9	$\frac{9}{16}$ 14.3	$\frac{63}{4}$ 171.5	$\frac{521}{32}$ 143.7	4 101.6	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{21}{8}$ 54.2	3.75 1.70	6 900 30 700	4 270 19 000



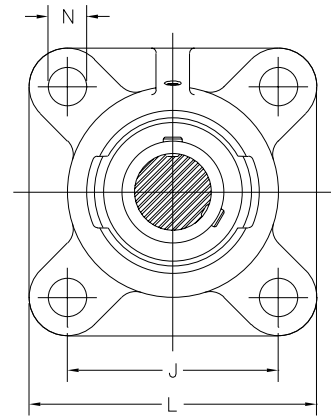
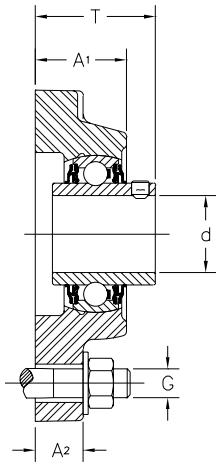
* Metric units are supplied through the Made-To-Order (MTO) Program

MRC Marathon series mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. However, in the event that regreasing is required, a stainless steel grease zerk is packaged with each unit.

Z4F ZMaRC-coated cast iron four-bolt flange units

ZMaRC-coated insert bearing

HD_i series



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Flange unit designation	A ₁	A ₂	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	Z4F012ZM	$1\frac{1}{8}$ 28.6	$\frac{5}{8}$ 15.9	$2\frac{1}{2}$ 63.5	$3\frac{3}{8}$ 85.7	$\frac{7}{16}$ 11.1	$\frac{3}{8}$ 10.0	$1\frac{17}{32}$ 38.8	1.35 0.61	2 860 12 700	1 470 6 550
$\frac{15}{16}$	Z4F015ZM	$1\frac{3}{16}$ 30.2	$\frac{5}{8}$ 15.9	$2\frac{3}{4}$ 69.9	$3\frac{3}{4}$ 95.3	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{17}{32}$ 38.8	1.85 0.84	3 150 14 000	1 750 7 800
1	Z4F100ZM	$1\frac{3}{16}$ 30.2	$\frac{5}{8}$ 15.9	$2\frac{3}{4}$ 69.9	$3\frac{3}{4}$ 95.3	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{17}{32}$ 38.8	1.80 0.82	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	Z4F102ZM	$1\frac{9}{32}$ 32.5	$\frac{19}{32}$ 15.1	$3\frac{1}{4}$ 82.6	$4\frac{1}{4}$ 108.0	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{21}{32}$ 42.2	2.65 1.20	4 380 19 500	2 520 11 200
$1\frac{3}{16}$	Z4F103ZM	$1\frac{9}{32}$ 32.5	$\frac{19}{32}$ 15.1	$3\frac{1}{4}$ 82.6	$4\frac{1}{4}$ 108.0	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{21}{32}$ 42.2	2.65 1.20	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	Z4F104ZMR	$1\frac{9}{32}$ 32.5	$\frac{19}{32}$ 15.1	$3\frac{1}{4}$ 82.6	$4\frac{1}{4}$ 108.0	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{21}{32}$ 42.2	2.65 1.20	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	Z4F104ZM	$1\frac{3}{8}$ 34.9	$\frac{5}{8}$ 15.9	$3\frac{5}{8}$ 92.1	$4\frac{5}{8}$ 117.5	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{27}{32}$ 46.4	3.30 1.50	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	Z4F107ZM	$1\frac{3}{8}$ 34.9	$\frac{5}{8}$ 15.9	$3\frac{5}{8}$ 92.1	$4\frac{5}{8}$ 117.5	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{27}{32}$ 46.4	3.20 1.45	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	Z4F108ZM	$1\frac{17}{32}$ 38.9	$\frac{21}{32}$ 16.7	4 101.6	$5\frac{1}{8}$ 130.2	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$2\frac{1}{8}$ 54.2	4.30 2.00	6 900 30 700	4 270 19 000
$1\frac{15}{16}$	Z4F115ZM	$1\frac{3}{4}$ 44.5	$\frac{25}{32}$ 19.8	$4\frac{3}{8}$ 111.1	$5\frac{5}{8}$ 142.9	$\frac{5}{8}$ 15.9	$\frac{9}{16}$ 14.0	$2\frac{7}{32}$ 56.6	5.60 2.55	7 890 35 100	5 220 23 200

For metric shafts 20mm - 40mm*

Shaft dia d	Flange unit designation	A ₁	A ₂	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	Z4F20ZM	$1\frac{1}{8}$ 28.6	$\frac{5}{8}$ 15.9	$2\frac{1}{2}$ 63.5	$3\frac{3}{8}$ 85.7	$\frac{7}{16}$ 11.1	$\frac{3}{8}$ 10.0	$1\frac{17}{32}$ 38.8	1.35 0.61	2 860 12 700	1 470 6 550
25	Z4F25ZM	$1\frac{3}{16}$ 30.2	$\frac{5}{8}$ 15.9	$2\frac{3}{4}$ 69.9	$3\frac{3}{4}$ 95.3	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{17}{32}$ 38.8	1.80 0.82	3 150 14 000	1 750 7 800
30	Z4F30ZM	$1\frac{9}{32}$ 32.5	$\frac{19}{32}$ 15.1	$3\frac{1}{4}$ 82.6	$4\frac{1}{4}$ 108.0	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{21}{32}$ 42.2	2.65 1.20	4 380 19 500	2 520 11 200
35	Z4F35ZM	$1\frac{3}{8}$ 34.9	$\frac{5}{8}$ 15.9	$3\frac{5}{8}$ 92.1	$4\frac{5}{8}$ 117.5	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{27}{32}$ 46.4	3.30 1.50	5 730 25 500	3 440 15 300
40	Z4F40ZM	$1\frac{17}{32}$ 38.9	$\frac{21}{32}$ 16.7	4 101.6	$5\frac{1}{8}$ 130.2	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$2\frac{1}{8}$ 54.2	4.30 2.00	6 900 30 700	4 270 19 000



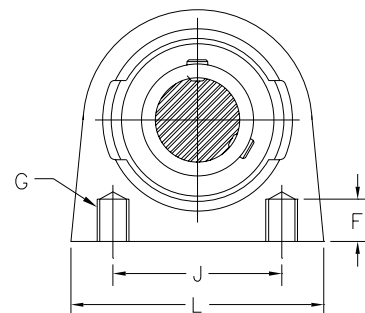
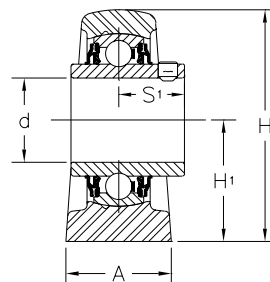
* Metric units are supplied through the Made-To-Order (MTO) Program

MRC Marathon series mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. However, in the event that regreasing is required, a stainless steel grease zerk is packaged with each unit.

ZTB ZMaRC-coated cast iron tapped base units

ZMaRC-coated insert bearing

HD_i series



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Shaft dia d	Tapped-base unit designation	A ₁	H	H ₁	J	L	F	G	S ₁	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
$\frac{3}{4}$	ZTB012ZM	$1\frac{1}{2}$ 38.1	$2\frac{9}{16}$ 65.1	$1\frac{5}{16}$ 33.3	2 50.8	$2\frac{5}{8}$ 66.7	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ –16 $\frac{3}{8}$ –16	$\frac{23}{32}$ 18.3	1.80 0.82	2 860 12 700	1 470 6 550
$\frac{15}{16}$	ZTB015ZM	$1\frac{1}{2}$ 38.1	$2\frac{13}{16}$ 71.4	$1\frac{7}{16}$ 36.5	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ –16 $\frac{3}{8}$ –16	$\frac{25}{32}$ 19.8	2.05 0.93	3 150 14 000	1 750 7 800
1	ZTB100ZM	$1\frac{1}{2}$ 38.1	$2\frac{13}{16}$ 71.4	$1\frac{7}{16}$ 36.5	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ –16 $\frac{3}{8}$ –16	$\frac{25}{32}$ 19.8	2.00 0.91	3 150 14 000	1 750 7 800
$1\frac{1}{8}$	ZTB102ZM	$1\frac{1}{2}$ 38.1	$3\frac{3}{8}$ 85.7	$1\frac{11}{16}$ 42.9	3 76.2	$3\frac{7}{8}$ 98.4	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ –14 $\frac{7}{16}$ –14	$\frac{7}{8}$ 22.2	3.50 1.59	4 380 19 500	2 520 11 200
$1\frac{3}{16}$	ZTB103ZM	$1\frac{1}{2}$ 38.1	$3\frac{3}{8}$ 85.7	$1\frac{11}{16}$ 42.9	3 76.2	$3\frac{7}{8}$ 98.4	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ –14 $\frac{7}{16}$ –14	$\frac{7}{8}$ 22.2	3.50 1.59	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	ZTB104ZMR	$1\frac{1}{2}$ 38.1	$3\frac{3}{8}$ 85.7	$1\frac{11}{16}$ 42.9	3 76.2	$3\frac{7}{8}$ 98.4	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ –14 $\frac{7}{16}$ –14	$\frac{7}{8}$ 22.2	3.50 1.59	4 380 19 500	2 520 11 200
$1\frac{1}{4}$	ZTB104ZM	$1\frac{7}{8}$ 47.6	$3\frac{3}{4}$ 95.3	$1\frac{7}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{8}$ 104.8	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ –13 $\frac{1}{2}$ –13	1 25.4	4.50 2.05	5 730 25 500	3 440 15 300
$1\frac{7}{16}$	ZTB107ZM	$1\frac{7}{8}$ 47.6	$3\frac{3}{4}$ 95.3	$1\frac{7}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{8}$ 104.8	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ –13 $\frac{1}{2}$ –13	1 25.4	4.50 2.05	5 730 25 500	3 440 15 300
$1\frac{1}{2}$	ZTB108ZM	$1\frac{7}{8}$ 47.6	$3\frac{15}{16}$ 100.0	$1\frac{15}{16}$ 49.2	$3\frac{1}{2}$ 88.9	$4\frac{1}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ –13 $\frac{1}{2}$ –13	$\frac{13}{16}$ 30.0	6.00 2.73	6 900 30 700	4 270 19 000
$1\frac{15}{16}$	ZTB115ZM	2 50.8	$4\frac{5}{8}$ 117.5	$2\frac{1}{4}$ 57.2	4 101.6	$5\frac{5}{16}$ 134.9	$\frac{7}{8}$ 22.2	$\frac{5}{8}$ –11 $\frac{5}{8}$ –11	$\frac{19}{32}$ 32.6	8.00 3.64	7 890 35 100	5 220 23 200

For metric shafts 20mm - 40mm

Shaft dia d	Tapped-base unit designation	A ₁	H	H ₁	J	L	N	G	T	Mass	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
mm		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lb kg	lbf N	lbf N
20	ZTB20ZM	$1\frac{1}{2}$ 38.1	$2\frac{9}{16}$ 65.1	$1\frac{5}{16}$ 33.3	2 50.8	$2\frac{5}{8}$ 66.7	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ –16 $\frac{3}{8}$ –16	$\frac{23}{32}$ 18.3	1.80 0.82	2 860 12 700	1 470 6 550
25	ZTB25ZM	$1\frac{1}{2}$ 38.1	$2\frac{13}{16}$ 71.4	$1\frac{7}{16}$ 36.5	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ –16 $\frac{3}{8}$ –16	$\frac{25}{32}$ 19.8	2.00 0.91	3 150 14 000	1 750 7 800
30	ZTB30ZM	$1\frac{1}{2}$ 38.1	$3\frac{3}{8}$ 85.7	$1\frac{11}{16}$ 42.9	3 76.2	$3\frac{7}{8}$ 98.4	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ –14 $\frac{7}{16}$ –14	$\frac{7}{8}$ 22.2	3.50 1.59	4 380 19 500	2 520 11 200
35	ZTB35ZM	$1\frac{7}{8}$ 47.6	$3\frac{3}{4}$ 95.3	$1\frac{7}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{8}$ 104.8	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ –13 $\frac{1}{2}$ –13	1 25.4	4.50 2.05	5 730 25 500	3 440 15 300
40	ZTB40ZM	$1\frac{7}{8}$ 47.6	$3\frac{15}{16}$ 100.0	$1\frac{15}{16}$ 49.2	$3\frac{1}{2}$ 88.9	$4\frac{1}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ –13 $\frac{1}{2}$ –13	$\frac{13}{16}$ 30.0	6.00 2.73	6 900 30 700	4 270 19 000



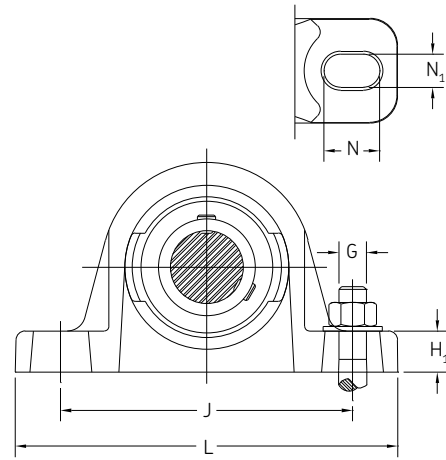
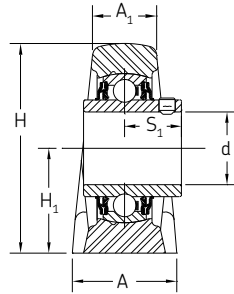
* Metric units are supplied through the Made-To-Order (MTO) Program

MRC Marathon series mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. However, in the event that regreasing is required, a stainless steel grease zerk is packaged with each unit.

SPB cast stainless steel pillow block units

Stainless steel insert bearing

XD₅ series



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Pillow unit designation	A	A ₁	H	H ₁	H ₂	J Min	J Max	L	N	N ₁	G	S ₁	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lbf N	lbf N
$\frac{3}{4}$	SPB012SS	$1\frac{1}{4}$ 32.0	$\frac{3}{4}$ 19.0	$4\frac{13}{32}$ 111.9	$1\frac{5}{16}$ 33.3	$\frac{5}{8}$ 16.0	$\frac{37}{16}$ 87.3	$4\frac{3}{16}$ 106.4	5 127.0	$\frac{13}{16}$ 20.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{23}{32}$ 18.3	2430 10800	1470 6550
1	SPB100SS	$1\frac{7}{16}$ 36.0	$\frac{7}{8}$ 22.0	$4\frac{57}{64}$ 123.8	$1\frac{7}{16}$ 36.5	$\frac{5}{8}$ 16.0	$3\frac{11}{16}$ 93.7	$4\frac{5}{16}$ 109.5	$5\frac{1}{8}$ 130.0	$\frac{3}{4}$ 19.1	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{25}{32}$ 19.8	2670 11900	1750 7800
$1\frac{3}{16}$	SPB103SS	$1\frac{9}{16}$ 39.7	1 25.4	$5\frac{9}{16}$ 141.3	$1\frac{11}{16}$ 42.9	$\frac{21}{32}$ 16.5	$4\frac{1}{4}$ 108.0	5 127.0	6 152.4	$\frac{15}{16}$ 23.8	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{7}{8}$ 22.2	3660 16300	2520 11200
$1\frac{1}{4}$	SPB104SSR	$1\frac{9}{16}$ 39.7	1 25.4	$5\frac{9}{16}$ 141.3	$1\frac{1}{16}$ 42.9	$\frac{21}{32}$ 16.5	$4\frac{1}{4}$ 108.0	5 127.0	6 152.4	$\frac{15}{16}$ 23.8	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{7}{8}$ 22.2	3660 16300	2520 11200
$1\frac{1}{4}$	SPB104SS	$1\frac{3}{4}$ 44.5	$1\frac{1}{8}$ 28.6	$6\frac{1}{8}$ 155.6	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19.0	$4\frac{11}{16}$ 119.1	$5\frac{1}{4}$ 133.4	$6\frac{5}{16}$ 160.3	$\frac{27}{32}$ 21.4	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	1 25.4	4850 21600	3440 15300
$1\frac{3}{8}$	SPB106SS	$1\frac{3}{4}$ 44.5	$1\frac{1}{8}$ 28.6	$6\frac{1}{8}$ 155.6	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19.0	$4\frac{11}{16}$ 119.1	$5\frac{1}{4}$ 133.4	$6\frac{5}{16}$ 160.3	$\frac{27}{32}$ 21.4	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	1 25.4	4850 21600	3440 15300
$1\frac{7}{16}$	SPB107SS	$1\frac{3}{4}$ 44.5	$1\frac{1}{8}$ 28.6	$6\frac{1}{8}$ 155.6	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19.0	$4\frac{11}{16}$ 119.1	$5\frac{1}{4}$ 133.4	$6\frac{5}{16}$ 160.3	$\frac{27}{32}$ 21.4	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	1 25.4	4850 21600	3440 15300
$1\frac{1}{2}$	SPB108SS	$1\frac{7}{8}$ 47.6	$1\frac{1}{4}$ 31.2	$6\frac{3}{4}$ 171.5	$1\frac{15}{16}$ 49.2	$\frac{3}{4}$ 19.0	$4\frac{15}{16}$ 125.4	$5\frac{3}{4}$ 146.0	$6\frac{7}{8}$ 174.6	$\frac{31}{32}$ 24.6	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{3}{16}$ 30.0	5550 24700	4270 19000

For metric shafts 20mm – 40mm*

Shaft dia d	Pillow unit designation	A	A ₁	H	H ₁	H ₂	J Min	J Max	L	N	N ₁	G	S ₁	Basic radial load rating dynamic C [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lbf N	lbf N
20	SPB20SS	$1\frac{1}{4}$ 32.0	$\frac{3}{4}$ 19.0	$4\frac{13}{32}$ 111.9	$1\frac{5}{16}$ 33.3	$\frac{5}{8}$ 16.0	$\frac{37}{16}$ 87.3	$4\frac{3}{16}$ 106.4	5 127.0	$\frac{13}{16}$ 20.5	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{23}{32}$ 18.3	2430 10800	1470 6550
25	SPB25SS	$1\frac{7}{16}$ 36.0	$\frac{7}{8}$ 22.0	$4\frac{57}{64}$ 123.8	$1\frac{7}{16}$ 36.5	$\frac{5}{8}$ 16.0	$3\frac{11}{16}$ 93.7	$4\frac{5}{16}$ 109.5	$5\frac{1}{8}$ 130.0	$\frac{3}{4}$ 19.1	$\frac{29}{64}$ 11.5	$\frac{3}{8}$ 10.0	$\frac{25}{32}$ 19.8	2670 11900	1750 7800
30	SPB30SS	$1\frac{9}{16}$ 39.7	1 25.4	$5\frac{9}{16}$ 141.3	$1\frac{11}{16}$ 42.9	$\frac{21}{32}$ 16.5	$4\frac{1}{4}$ 108.0	5 127.0	6 152.4	$\frac{15}{16}$ 23.8	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{7}{8}$ 22.2	3660 16300	2520 11200
35	SPB35SS	$1\frac{3}{4}$ 44.5	$1\frac{1}{8}$ 28.6	$6\frac{1}{8}$ 155.6	$1\frac{7}{8}$ 47.6	$\frac{3}{4}$ 19.0	$4\frac{11}{16}$ 119.1	$5\frac{1}{4}$ 133.4	$6\frac{5}{16}$ 160.3	$\frac{27}{32}$ 21.4	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	1 25.4	4850 21600	3440 15300
40	SPB40SS	$1\frac{7}{8}$ 47.6	$1\frac{1}{4}$ 31.2	$6\frac{3}{4}$ 171.5	$1\frac{15}{16}$ 49.2	$\frac{3}{4}$ 19.0	$4\frac{15}{16}$ 125.4	$5\frac{3}{4}$ 146.0	$6\frac{7}{8}$ 174.6	$\frac{31}{32}$ 24.6	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{3}{16}$ 30.0	5550 24700	4270 19000



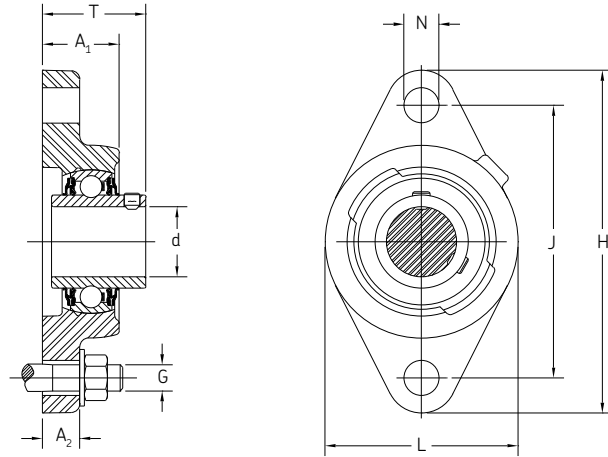
* Metric units are supplied through the Made-To-Order (MTO) Program

MRC Marathon series mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. However, in the event that regreasing is required, a stainless steel grease zerk is packaged with each unit.

S2F cast stainless steel two-bolt flange units

Stainless steel insert bearing

XD₅ series



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Flange unit designation	A ₁	A ₂	H	J	L	N	G	T	Basic radial load rating dynamic C _r [†] static C ₀ [†]	
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lbf N	lbf N
$\frac{3}{4}$	S2F012SS	$\frac{11}{64}$ 25.8	$\frac{7}{16}$ 11.1	$4\frac{13}{32}$ 111.9	$3\frac{17}{32}$ 89.7	$\frac{23}{8}$ 60.3	$\frac{7}{16}$ 11.1	$\frac{3}{8}$ 10.0	$\frac{19}{32}$ 32.5	2430 10800	1470 6550
1	S2F100SS	$\frac{15}{32}$ 29.4	$\frac{17}{32}$ 13.5	$4\frac{7}{8}$ 123.4	$3\frac{57}{64}$ 98.8	$2\frac{3}{4}$ 69.9	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{17}{16}$ 36.5	2670 11900	1750 7800
$1\frac{1}{16}$	S2F103SS	$\frac{111}{32}$ 34.1	$\frac{17}{32}$ 13.5	$5\frac{9}{16}$ 141.3	$4\frac{19}{32}$ 116.7	$3\frac{1}{8}$ 79.4	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{21}{32}$ 42.1	3660 16300	2520 11200
$1\frac{1}{4}$	S2F104SSR	$\frac{111}{32}$ 34.1	$\frac{17}{32}$ 13.5	$5\frac{9}{16}$ 141.3	$4\frac{19}{32}$ 116.7	$3\frac{1}{8}$ 79.4	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{21}{32}$ 42.1	3660 16300	2520 11200
$1\frac{1}{4}$	S2F104SS	$\frac{113}{32}$ 35.7	$\frac{9}{16}$ 14.3	$6\frac{1}{8}$ 155.6	$5\frac{1}{8}$ 130.2	$3\frac{5}{8}$ 92.1	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{113}{16}$ 46.0	4850 21600	3440 15300
$1\frac{3}{8}$	S2F106SS	$\frac{113}{32}$ 35.7	$\frac{9}{16}$ 14.3	$6\frac{1}{8}$ 155.6	$5\frac{1}{8}$ 130.2	$3\frac{5}{8}$ 92.1	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{113}{16}$ 46.0	4850 21600	3440 15300
$1\frac{7}{16}$	S2F107SS	$\frac{113}{32}$ 35.7	$\frac{9}{16}$ 14.3	$6\frac{1}{8}$ 155.6	$5\frac{1}{8}$ 130.2	$3\frac{5}{8}$ 92.1	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{113}{16}$ 46.0	4850 21600	3440 15300
$1\frac{1}{2}$	S2F108SS	$\frac{117}{32}$ 38.9	$\frac{9}{16}$ 14.3	$6\frac{3}{4}$ 171.5	$5\frac{21}{32}$ 143.7	4 101.6	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{23}{32}$ 53.0	5550 24700	4270 19000

For metric shafts 20mm - 40mm*

Shaft dia d	Flange unit designation	A ₁	A ₂	H	J	L	N	G	T	Basic radial load rating dynamic C _r [†] static C ₀ [†]	
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lbf N	lbf N
20	S2F20SS	$\frac{11}{64}$ 25.8	$\frac{7}{16}$ 11.1	$4\frac{13}{32}$ 111.9	$3\frac{17}{32}$ 89.7	$2\frac{3}{8}$ 60.3	$\frac{7}{16}$ 11.1	$\frac{3}{8}$ 10.0	$\frac{19}{32}$ 32.5	2430 10800	1470 6550
25	S2F25SS	$\frac{15}{32}$ 29.4	$\frac{17}{32}$ 13.5	$4\frac{7}{8}$ 123.4	$3\frac{57}{64}$ 98.8	$2\frac{3}{4}$ 69.9	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{17}{16}$ 36.5	2670 11900	1750 7800
30	S2F30SS	$\frac{111}{32}$ 34.1	$\frac{17}{32}$ 13.5	$5\frac{9}{16}$ 141.3	$4\frac{19}{32}$ 116.7	$3\frac{1}{8}$ 79.4	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$\frac{21}{32}$ 42.1	3660 16300	2520 11200
35	S2F35SS	$\frac{113}{32}$ 35.7	$\frac{9}{16}$ 14.3	$6\frac{1}{8}$ 155.6	$5\frac{1}{8}$ 130.2	$3\frac{5}{8}$ 92.1	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{113}{16}$ 46.0	4850 21600	3440 15300
40	S2F40SS	$\frac{117}{32}$ 38.9	$\frac{9}{16}$ 14.3	$6\frac{3}{4}$ 171.5	$5\frac{21}{32}$ 143.7	4 101.6	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$\frac{23}{32}$ 53.0	5550 24700	4270 19000



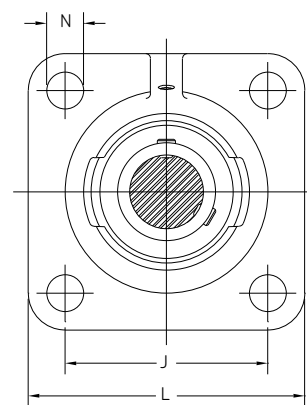
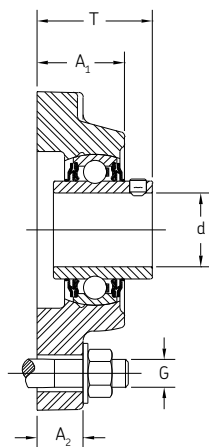
* Metric units are supplied through the Made-To-Order (MTO) Program

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S4F cast stainless steel four-bolt flange units

Stainless steel insert bearing

XD₅ series



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Flange unit designation	A ₁	A ₂	J	L	N	G	T	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	lbf N	lbf N
$\frac{3}{4}$	S4F012SS	$1\frac{1}{64}$ 25.8	$\frac{7}{16}$ 11.1	$2\frac{1}{2}$ 63.5	$3\frac{3}{8}$ 85.7	$\frac{7}{16}$ 11.1	$\frac{3}{8}$ 10.0	$1\frac{15}{32}$ 37.3	2430 10800	1470 6550
1	S4F100SS	$1\frac{5}{32}$ 29.4	$\frac{17}{32}$ 13.5	$2\frac{3}{4}$ 69.9	$3\frac{3}{4}$ 95.3	$\frac{29}{64}$ 11.5	$\frac{7}{16}$ 11.0	$1\frac{17}{32}$ 38.9	2670 11900	1750 7800
$1\frac{3}{16}$	S4F103SS	$1\frac{11}{32}$ 34.1	$\frac{17}{32}$ 13.5	$3\frac{1}{4}$ 82.6	$4\frac{1}{4}$ 108.0	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{21}{32}$ 42.1	3660 16300	2520 11200
$1\frac{1}{4}$	S4F104SSR	$1\frac{11}{32}$ 34.1	$\frac{17}{32}$ 13.5	$3\frac{1}{4}$ 82.6	$4\frac{1}{4}$ 108.0	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{21}{32}$ 42.1	3660 16300	2520 11200
$1\frac{1}{4}$	S4F104SS	$1\frac{13}{32}$ 35.7	$\frac{9}{16}$ 14.3	$3\frac{5}{8}$ 92.1	$4\frac{5}{8}$ 117.5	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{13}{16}$ 46.0	4850 21600	3440 15300
$1\frac{3}{8}$	S4F106SS	$1\frac{13}{32}$ 35.7	$\frac{9}{16}$ 14.3	$3\frac{5}{8}$ 92.1	$4\frac{5}{8}$ 117.5	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{13}{16}$ 46.0	4850 21600	3440 15300
$1\frac{7}{16}$	S4F107SS	$1\frac{13}{32}$ 35.7	$\frac{9}{16}$ 14.3	$3\frac{5}{8}$ 92.1	$4\frac{5}{8}$ 117.5	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{13}{16}$ 46.0	4850 21600	3440 15300
$1\frac{1}{2}$	S4F108SS	$1\frac{17}{32}$ 38.9	$\frac{9}{16}$ 14.3	4 101.6	$5\frac{1}{8}$ 130.2	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$2\frac{3}{32}$ 53.2	5550 24700	4270 19000

For metric shafts 20mm - 40mm*

Shaft dia d	Flange unit designation	A ₁	A ₂	J	L	N	G	T	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	in mm	lbf N	lbf N
20	S4F20SS	$1\frac{1}{64}$ 25.8	$\frac{7}{16}$ 11.1	$2\frac{1}{2}$ 63.5	$3\frac{3}{8}$ 85.7	$\frac{7}{16}$ 11.1	$\frac{3}{8}$ 10.0	$1\frac{15}{32}$ 37.3	2430 10800	1470 6550
25	S4F25SS	$1\frac{5}{32}$ 29.4	$\frac{17}{32}$ 13.5	$2\frac{3}{4}$ 69.9	$3\frac{3}{4}$ 95.3	$\frac{29}{64}$ 11.5	$\frac{7}{16}$ 11.0	$1\frac{17}{32}$ 38.9	2670 11900	1750 7800
30	S4F30SS	$1\frac{11}{32}$ 34.1	$\frac{17}{32}$ 13.5	$3\frac{1}{4}$ 82.6	$4\frac{1}{4}$ 108.0	$\frac{1}{2}$ 12.7	$\frac{7}{16}$ 11.0	$1\frac{21}{32}$ 42.1	3660 16300	2520 11200
35	S4F35SS	$1\frac{13}{32}$ 35.7	$\frac{9}{16}$ 14.3	$3\frac{5}{8}$ 92.1	$4\frac{5}{8}$ 117.5	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$1\frac{13}{16}$ 46.0	4850 21600	3440 15300
40	S4F40SS	$1\frac{17}{32}$ 38.9	$\frac{9}{16}$ 14.3	4 101.6	$5\frac{1}{8}$ 130.2	$\frac{9}{16}$ 14.3	$\frac{1}{2}$ 12.7	$2\frac{3}{32}$ 53.2	5550 24700	4270 19000

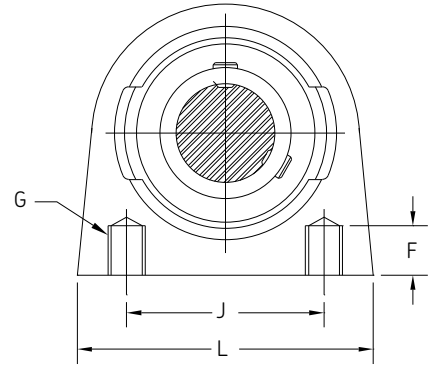
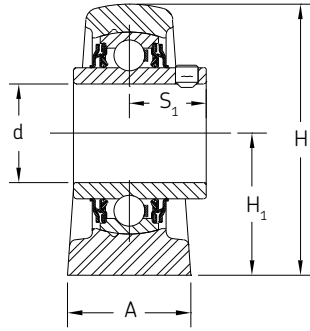


* Metric units are supplied through the Made-To-Order (MTO) Program

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STB cast stainless steel tapped-base units

Stainless steel insert bearing
XD₅ series



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Shaft dia d	Tapped-base unit designation	A ₁	H	H ₁	J	L	F	G	S ₁	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	UNC Threads	in mm	lbf N	lbf N
$\frac{3}{4}$	STB012SS	$\frac{1}{8}$ 28.6	$2\frac{1}{2}$ 63.5	$\frac{15}{16}$ 33.3	2 50.8	$2\frac{5}{8}$ 66.7	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{23}{32}$ 18.3	2430 10800	1470 6550
1	STB100SS	$\frac{1}{4}$ 31.8	$2\frac{3}{4}$ 69.9	$\frac{17}{16}$ 36.5	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{25}{32}$ 19.8	2670 11900	1750 7800
$1\frac{3}{16}$	STB103SS	$\frac{1}{2}$ 38.1	$3\frac{1}{4}$ 82.6	$\frac{11}{16}$ 42.9	3 76.2	$3\frac{7}{8}$ 98.4	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2	3660 16300	2520 11200
$1\frac{1}{4}$	STB104SSR	$\frac{1}{2}$ 38.1	$3\frac{1}{4}$ 82.6	$\frac{11}{16}$ 42.9	3 76.2	$3\frac{7}{8}$ 98.4	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2	3660 16300	2520 11200
$1\frac{1}{4}$	STB104SS	$\frac{1}{2}$ 38.1	$3\frac{5}{8}$ 92.1	$\frac{17}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{8}$ 104.8	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	4850 21600	3440 15300
$1\frac{3}{8}$	STB106SS	$\frac{1}{2}$ 38.1	$3\frac{5}{8}$ 92.1	$\frac{17}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{8}$ 104.8	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	4850 21600	3440 15300
$1\frac{7}{16}$	STB107SS	$\frac{1}{2}$ 38.1	$3\frac{5}{8}$ 92.1	$\frac{17}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{8}$ 104.8	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	4850 21600	3440 15300
$1\frac{1}{2}$	STB108SS	$\frac{5}{8}$ 41.3	$3\frac{15}{16}$ 100.0	$\frac{15}{16}$ 49.2	$3\frac{1}{2}$ 88.9	$4\frac{1}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	$\frac{13}{16}$ 30.0	5550 24700	4270 19000

For metric shafts 20mm - 40mm*

Shaft dia d	Tapped-base unit designation	A ₁	H	H ₁	J	L	F	G	S ₁	Basic radial load rating dynamic C _r [†]	static C ₀ [†]
in		in mm	in mm	in mm	in mm	in mm	in mm	UNC Threads	in mm	lbf N	lbf N
20	STB20SS	$\frac{1}{8}$ 28.6	$2\frac{1}{2}$ 63.5	$\frac{15}{16}$ 33.3	2 50.8	$2\frac{5}{8}$ 66.7	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{23}{32}$ 18.3	2430 10800	1470 6550
25	STB25SS	$\frac{1}{4}$ 31.8	$2\frac{3}{4}$ 69.9	$\frac{17}{16}$ 36.5	2 50.8	3 76.2	$\frac{1}{2}$ 12.7	$\frac{3}{8}$ -16	$\frac{25}{32}$ 19.8	2670 11900	1750 7800
30	STB30SS	$\frac{1}{2}$ 38.1	$3\frac{1}{4}$ 82.6	$\frac{11}{16}$ 42.9	3 76.2	$3\frac{7}{8}$ 98.4	$\frac{5}{8}$ 15.9	$\frac{7}{16}$ -14	$\frac{7}{8}$ 22.2	3660 16300	2520 11200
35	STB35SS	$\frac{1}{2}$ 38.1	$3\frac{5}{8}$ 92.1	$\frac{17}{8}$ 47.6	$3\frac{1}{4}$ 82.6	$4\frac{1}{8}$ 104.8	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	1 25.4	4850 21600	3440 15300
40	STB40SS	$\frac{5}{8}$ 41.3	$3\frac{15}{16}$ 100.0	$\frac{15}{16}$ 49.2	$3\frac{1}{2}$ 88.9	$4\frac{1}{2}$ 114.3	$\frac{3}{4}$ 19.1	$\frac{1}{2}$ -13	$\frac{13}{16}$ 30.0	5550 24700	4270 19000



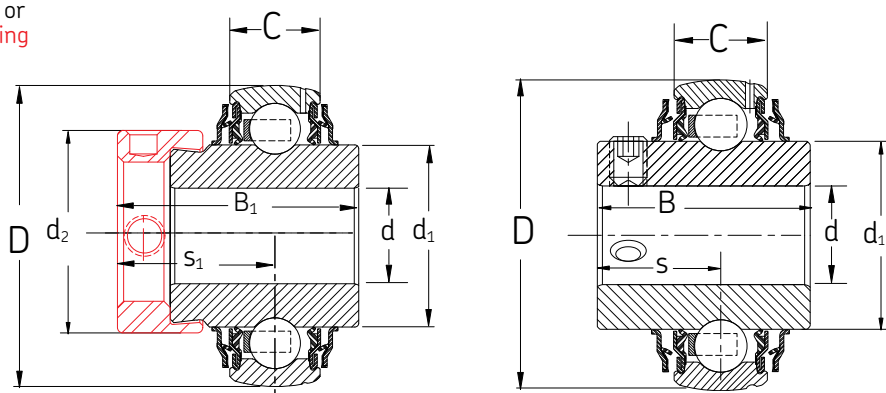
* Metric units are supplied through the Made-To-Order (MTO) Program

MRC Marathon series mounted bearing units are greased and sealed for life. MRC does not recommend regreasing. However, in the event that regreasing is required, a stainless steel grease zerk is packaged with each unit.

Mounted unit

ZMaRC-coated insert bearings

Available with standard set-screw mounting or
eccentric locking collar mounting



For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$

Insert bearing designation	Bore dia d	Outside dia D	Inner width B	B_1	Outer width C	Basic radial load rating dynamic C	static C_0	d_1	d_2	S	S_1	Max fillet rad. ⁽¹⁾	Mass double set-screw	lock-collar
	in mm	in mm	in mm	in mm	in mm	lbf N	lbf N	in mm	in mm	in mm	in mm	lb kg	lb kg	lb kg
RRZ1015BRR	$\frac{3}{4}$ 19.05	1.8504 47	1.220 31		0.5512 14	2 860 12 700	1 470 6 500	1.110 28.20		0.500 12.70		0.024 0.60	0.31 0.14	
RRZ1100BRR-L*	$\frac{15}{16}$ 23.81	2.0472 52	1.343 34.10	1.7500 44.4	0.5906 15	3 150 14 000	1 750 7 800	1.328 33.74	1.4725 37.4	0.563 14.30	1.059 26.9	0.024 0.60	0.42 0.19	0.53 0.24
RRZ1102BRR	$1\frac{1}{8}$ 28.58	2.4409 62	1.500 38.10		0.7087 18	4 380 19 500	2 520 11 200	1.563 39.70		0.626 15.90		0.024 0.60	0.66 0.30	
RRZ1103BRR-L*	$1\frac{3}{16}$ 30.16	2.4409 62	1.500 38.10	1.7638 44.8	0.7087 18	4 380 19 500	2 520 11 200	1.563 39.70	1.7402 44.2	0.626 15.90	1.185 30.1	0.024 0.60	0.60 0.27	0.79 0.36
RRZ104BRR2	$1\frac{1}{4}$ 31.75	2.4409 62	1.500 38.10		0.7087 18	4 380 19 500	2 520 11 200	1.563 39.70		0.626 15.90		0.024 0.60	0.55 0.25	
RRZ1104BRR-L*	$1\frac{1}{4}$ 31.75	2.8346 72	1.688 42.88	2.0000 51.1	0.7480 19	5 730 25 500	3 440 15 300	1.815 46.10	2.0000 51.1	0.689 17.50	1.272 32.3	0.039 1.00	1.00 0.46	1.31 0.59
RRZ1107BRR-L*	$1\frac{7}{16}$ 36.51	2.8346 72	1.688 42.88	2.0000 51.1	0.7480 19	5 730 25 500	3 440 15 300	1.815 46.10	2.0000 51.1	0.689 17.50	1.374 34.9	0.039 1.00	0.84 0.38	1.21 0.55
RRZ1108BRR	$1\frac{1}{2}$ 38.10	3.1496 80	1.938 49.23		0.8268 21	6 900 30 700	4 270 19 000	2.039 51.80		0.748 19		0.039 1.00	1.30 0.59	
RRZ1115BRR-L*	$1\frac{15}{16}$ 49.20	3.5433 90	2.031 51.60	2.4688 62.7	0.8661 22	7 890 35 100	5 220 23 200	2.461 62.51	2.6575 67.5	0.748 19	1.500 38.1	0.039 1.00	1.55 0.71	2.09 0.95

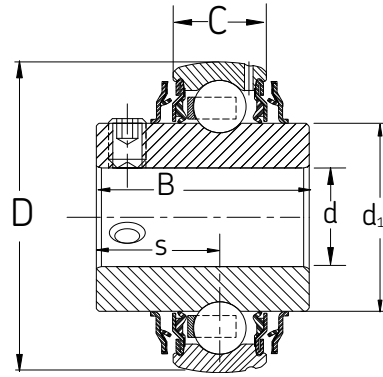
For metric shafts 20mm - 40mm

Insert bearing designation	Bore dia d	Outside dia D	Inner width B	Outer width C	Basic radial load rating dynamic C	static C_0	d_1	S	Max fillet rad. ⁽¹⁾	Mass
	in mm	in mm	in mm	in mm	lbf N	lbf N	in mm	in mm	in mm	lb kg
RRZ20BRR	0.7874 20	1.8504 47	1.220 31	0.5512 14	2 860 12 700	1 470 6 550	1.110 28.20	0.500 12.70	0.024 0.60	0.31 0.14
RRZ25BRR	0.9843 25	2.0472 52	1.343 34.1	0.5906 15	3 150 14 000	1 750 7 800	1.328 33.74	0.563 14.30	0.024 0.60	0.40 0.18
RRZ30BRR	1.1811 30	2.4409 62	1.500 38.1	0.7087 18	4 380 19 500	2 520 11 200	1.563 39.70	0.626 15.90	0.024 0.60	0.60 0.27
RRZ35BRR	1.3780 35	2.8346 72	1.688 42.9	0.7480 19	5 730 25 500	3 440 15 300	1.815 46.10	0.689 17.50	0.039 1.00	1.00 0.46
RRZ40BRR	1.5748 40	3.1496 80	1.938 49.2	0.7480 19	6 900 30 700	4 270 19 000	2.039 51.80	0.748 19.00	0.039 1.00	1.20 0.55

⁽¹⁾ Fillet radius indicates the maximum fillet radius on the shaft which bearing corner will clear.

Mounted unit

Stainless steel insert bearing
Set-screw locking



For inch shafts $\frac{3}{4}$ – $1\frac{1}{2}$

Insert bearing designation	Bore dia d	Outside dia D	Inner width B	Outer width C	Basic radial load rating dynamic C	static C ₀	d ₁	S	Max fillet rad. ⁽¹⁾	Mass
	in mm	in mm	in mm	in mm	lbf N	lbf N	in mm	in mm	in mm	lb kg
RRH1012BRR	$\frac{3}{4}$ 19.05	1.8504 47	1.220 31	0.5512 14	2 380 10 600	1 470 6 500	1.110 28.20	0.500 12.70	0.024 0.60	0.31 0.14
RRH1100BRR	1 25.4	2.0472 52	1.343 34.10	0.5906 15	2 520 11 200	1 750 7 800	1.328 33.74	0.563 14.30	0.024 0.60	0.37 0.17
RRH1103BRR	$1\frac{3}{16}$ 30.16	2.4409 62	1.500 38.10	0.7087 18	3 510 15 600	2 520 11 200	1.563 39.70	0.626 15.90	0.024 0.60	0.60 0.27
RRH104BRR2	$1\frac{1}{4}$ 31.75	2.4409 62	1.500 38.10	0.7087 18	3 510 15 600	2 520 11 200	1.563 39.70	0.626 15.90	0.024 0.60	0.55 0.25
RRH1104BRR	$1\frac{1}{4}$ 31.75	2.8346 72	1.688 42.88	0.7480 19	4 560 20 300	3 440 15 300	1.815 46.10	0.689 17.50	0.039 1.00	1.00 0.46
RRH1106BRR	$1\frac{3}{8}$ 34.93	2.8346 72	1.688 42.88	0.7480 19	4 560 20 300	3 440 15 300	1.815 46.10	0.689 17.50	0.039 1.00	0.90 0.41
RRH1107BRR	$1\frac{7}{16}$ 36.51	2.8346 72	1.688 42.88	0.7480 19	4 560 20 300	3 440 15 300	1.815 46.10	0.689 17.50	0.039 1.00	0.84 0.38
RRH1108BRR	$1\frac{1}{2}$ 38.10	3.1496 80	1.938 49.23	0.8268 21	5 550 24 700	4 270 19 000	2.039 51.80	0.748 19.00	0.039 1.00	1.30 0.59

For metric shafts 20mm - 40mm

Insert bearing designation	Bore dia d	Outside dia D	Inner width B	Outer width C	Basic radial load rating dynamic C	static C ₀	d ₁	S	Max fillet rad. ⁽¹⁾	Mass
	in mm	in mm	in mm	in mm	lbf N	lbf N	in mm	in mm	in mm	lb kg
RRH20BRR	0.7874 20	1.8504 47	1.220 31	0.5512 14	2 430 10 800	1 470 6 550	1.110 28.20	0.500 12.70	0.024 0.60	0.31 0.14
RRH25BRR	0.9843 25	2.0472 52	1.343 34.1	0.5906 15	2 670 11 900	1 750 7 800	1.328 33.74	0.563 14.30	0.024 0.60	0.40 0.18
RRH30BRR	1.1811 30	2.4409 62	1.500 38.1	0.7087 18	3 660 16 300	2 520 11 200	1.563 39.70	0.626 15.90	0.024 0.60	0.60 0.27
RRH35BRR	1.3780 35	2.8346 72	1.688 42.9	0.7480 19	4 850 21 600	3 440 15 300	1.815 46.10	0.689 17.50	0.039 1.00	1.00 0.46
RRH40BRR	1.5748 40	3.1496 80	1.938 49.2	0.7480 19	5 550 24 700	4 270 19 000	2.039 51.80	0.748 19	0.039 1.00	1.20 0.55

⁽¹⁾ Fillet radius indicates the maximum fillet radius on the shaft which bearing corner will clear.

Marathon submersible plane bearing units (Supplied through the MTO Program)

Set-screw locking

MRC submersible plane bearing units are suitable for applications, which are constantly exposed to or submerged in moisture. When normal anti-friction bearings fail because of grease washout or corrosion, MRC submersible plane bearings are the best choice to keep rotating equipment running smoothly. The 316 stainless steel inner sleeve offers wear resistance as well as corrosion resistance. The high performance polymer outer ring allows

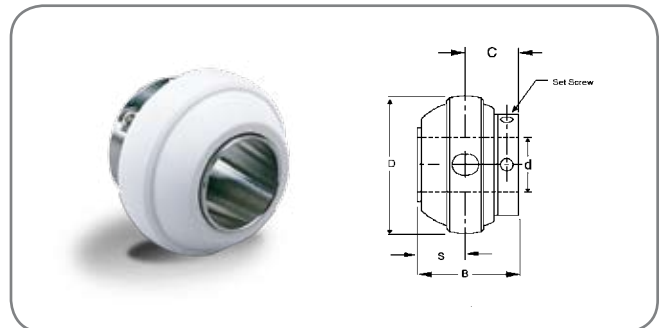
the bearing to operate at moderate speeds without the need for lubrication since the polymer material is self-lubricated. Since the polymer material is the friction-reducing component, no grease is required for proper performance. And since frequent regreasing is the typical solution when trying to extend the service life of a bearing in severe operating environments, excessive grease purging is no longer a problem. The insert bearing will not catastrophically fail;

it wears and becomes loose in the bore, indicating it needs to be replaced. The polymer material can withstand continuous temperatures up to 150° F and tolerates higher temperatures during washdown. The recommended Marathon housing material for this insert is either the composite or cast stainless steel. In addition, the insert bearing is approved for direct food contact by the USDA / FDA in meat, poultry, and dairy applications.

For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$ (metric inserts can be supplied through the MTO program)

Insert bearing designation	Shaft dia d	D	B	C	S	Max speed*	Max load*	Radial load (fr) x speed (n)*	Mass
	in mm	in mm	in mm	in mm	in mm	rpm	lbs	lbs x rpm	lb kg
RRP1012BPL	$\frac{3}{4}$ 19.1	1.8504 47.0	1.4843 37.7	0.9219 23.4	0.5630 14.3	250	625	3 900	0.3 0.14
RRP1100BPL	1 25.4	2.0472 52.0	1.5472 39.3	0.9219 23.4	0.6260 15.9	190	875	4 200	0.4 0.18
RRP1102BPL	$1\frac{1}{8}$ 28.6	2.4409 62.0	1.8307 46.5	1.0787 27.4	0.750 19.1	150	1 150	4 900	0.6 0.27
RRP1103BPL	$1\frac{3}{16}$ 30.2	2.4409 62.0	1.8307 46.5	1.0787 27.4	0.750 19.1	150	1 150	4 900	0.6 0.27
RRP104BPL2	$1\frac{1}{4}$ 31.8	2.4409 62.0	1.8307 46.5	1.0787 27.4	0.750 19.1	150	1 150	4 900	0.6 0.27
RRP1104BPL	$1\frac{1}{4}$ 31.8	2.8346 72.0	2.0472 52.0	1.1102 28.2	0.9375 23.8	130	1 450	5 600	0.8 0.36
RRP1107BPL	$1\frac{7}{16}$ 36.5	2.8346 72.0	2.0472 52.0	1.1102 28.2	0.9375 23.8	130	1 450	5 600	0.8 0.36
RRP1108BPL	$1\frac{1}{2}$ 38.1	3.1496 80.0	2.2323 56.7	1.2638 32.1	0.9685 24.6	120	1 900	6 100	1.0 0.45
RRP1115BPL	$1\frac{15}{16}$ 49.2	3.5433 90.0	2.2953 58.3	1.2638 32.1	1.0315 26.2	100	2 500	6 300	1.3 0.59

Plane bearing capacity is based on the heat generation, which is directly related to speed versus applied load. The "radial load x speed" column above provides the relationship between load versus speed in order to evaluate the bearing suitability. If the application conditions exceed any of the three factors above, different polymer materials can be selected to meet the application needs.



Marathon hi-temp plane bearing units (Supplied through the MTO Program)

Set-screw locking

MRC hi-temp units are fitted with high temperature plane bearing inserts that can withstand consistent temperatures up to 500° F. When normal anti-friction bearings cannot handle the heat, Marathon hi-temp units are a great solution to keep rotating equipment running smoothly. The 316 stainless steel inner ring and 304 stainless steel outer ring offer wear resistance as well as corrosion resistance. The high performance polymer sleeve material allows

the bearing to operate at higher speeds compared to typical plane bearings.

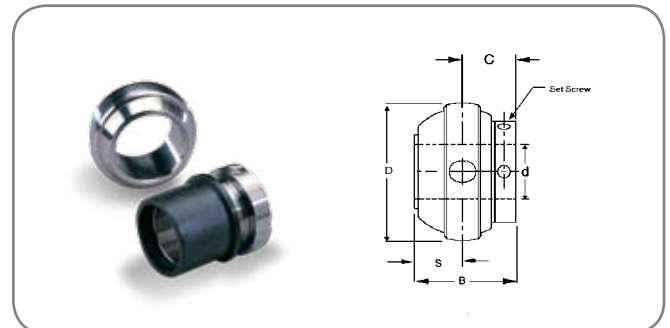
Since the polymer material is the friction-reducing component, no grease is required for proper performance. Therefore, they are maintenance free and there is no issue about excessive grease purging which is usually a problem when trying to extend the service life of a bearing in severe operating environments. In the event of premature wear, the insert bearing

will not catastrophically fail but will exhibit looseness indicating that the bearing needs to be replaced. The plane bearing inserts can be assembled into either the Marathon ZMaRC-coated cast iron or cast stainless steel housings to meet most application requirements for high temperature duty. In addition, the units meet USDA approval for direct contact in meat, poultry, and dairy applications.

For inch shafts $\frac{3}{4}$ – $1\frac{15}{16}$ (metric inserts can be supplied through the MTO program)

Insert bearing designation	Shaft dia d	D	B	C	S	Max speed*	Max load*	Radial load (fr) x speed (n)*	Mass
	in mm	in mm	in mm	in mm	in mm	rpm	lbs	lbs x rpm	lb kg
RRS1012BBL	$\frac{3}{4}$ 19.1	1.8504 47.0	1.4843 37.7	0.9219 23.4	0.5630 14.3	2 000	2 100	179 000	0.5 0.23
RRS1100BBL	1 25.4	2.0472 52.0	1.5472 39.3	0.9219 23.4	0.6260 15.9	1 500	3 000	190 000	0.7 0.32
RRS1102BBL	$1\frac{1}{8}$ 28.6	2.4409 62.0	1.8307 46.5	1.0787 27.4	0.750 19.1	1 350	4 000	226 000	1.1 0.50
RRS1103BBL	$1\frac{3}{16}$ 30.2	2.4409 62.0	1.8307 46.5	1.0787 27.4	0.750 19.1	1 350	4 000	226 000	1.1 0.50
RRS104BBL2	$1\frac{1}{4}$ 31.8	2.4409 62.0	1.8307 46.5	1.0787 27.4	0.750 19.1	1 350	4 000	226 000	1.1 0.50
RRS1104BBL	$1\frac{1}{4}$ 31.8	2.8346 72.0	2.0472 52.0	1.1102 28.2	0.9375 23.8	1 200	5 100	262 000	1.7 0.77
RRS1107BBL	$1\frac{7}{16}$ 36.5	2.8346 72.0	2.0472 52.0	1.1102 28.2	0.9375 23.8	1 200	5 100	262 000	1.7 0.77
RRS1108BBL	$1\frac{1}{2}$ 38.1	3.1496 80.0	2.2323 56.7	1.2638 32.1	0.9685 24.6	1 000	6 700	286 000	2.5 1.14
RRS1115BBL	$1\frac{15}{16}$ 49.2	3.5433 90.0	2.2953 58.3	1.2638 32.1	1.0315 26.2	800	9 000	298 000	3.3 1.50

Plane bearing capacity is based on the heat generation, which is directly related to speed versus applied load. The "radial load x speed" column above provides the relationship between load versus speed in order to evaluate the bearing suitability. If the application conditions exceed any of the three factors above, different polymer materials can be selected to meet the application needs.



Made-To-Order products for the food processing industry

Low backing height pillow block (CPL-ZM or SS)

Size range:
 $\frac{3}{4}$ – $1\frac{1}{2}$ inches, 20 mm – 40 mm
Insert bearing:
ZMaRC coated or stainless steel

These units have a lower backing height than standard pillow blocks while the base bolt center distance, bolt size, insert bearing and load ratings remain the same. The overall height and base thickness are slightly smaller. These units are non-regreasable but can be furnished with grease fittings on special order. A regreasable unit is denoted by adding a "G" suffix to the unit part number.

Mounting and center height interchangeable with the following:

AMI	UCLP
Dodge	P2B-SC
Fafnir	YAK
Hub City	PB250
Link Belt	PL3
McGill	CL-25
Sealmaster	NPL

Low profile 2-bolt flange unit (C2L-ZM or SS)

Size range:
 $\frac{3}{4}$ – $1\frac{7}{16}$ inches, 20 mm – 35 mm
Insert bearing:
ZMaRC coated or stainless steel

These units are smaller than a standard 2-bolt flange unit but have the same insert bearing and load ratings. They are used where space is limited. The housing bolt holes are round to accept round machine bolts. They are non-regreasable but can be furnished with grease fittings on special order. A regreasable unit is denoted by adding a "G" suffix to the unit part number.

Mounting interchangeable with the following:

Dodge	LFT-SC
Hub City	FB160
McGill	FBS2-25

Hanger units (SHU-SS)

Size range:
 $\frac{3}{4}$ – $1\frac{1}{2}$ inches, 20 mm – 40 mm
Insert bearing: stainless steel

These units are used on screw conveyors and include a stainless steel housing tapped for a straight pipe thread. These units are non-regreasable but grease fittings can be furnished on special order. A regreasable unit is denoted by adding a "G" suffix to the unit part number.

Mounting interchangeable with the following:

AMI	UCECH, UCHPL
Dodge	SCHB
McGill	MCHB
Sealmaster	SCHB

3-bolt flange unit (C3F-ZM or SS)

Size range:
 $\frac{3}{4}$ – $1\frac{7}{16}$ inches, 20 mm – 35 mm
Insert bearing:
ZMaRC coated or stainless steel

These units are non-regreasable and are applied where space constraints require a compact unit with sufficient strength for the application. The insert bearing and load ratings are the same as a standard unit with the same shaft diameter. The housing bolt holes are round to accept round machine bolts. A grease fitting can be furnished on special order. A regreasable unit is denoted by adding a "G" suffix to the unit part number.

Mounting interchangeable with the following:

AMI	BTM
Dodge	LF-SC
Hub City	FBI150
Sealmaster	LF

4-bolt piloted flange unit (CPF-ZM or SS)

Size range:
 $\frac{3}{4}$ – $1\frac{1}{2}$ inches, 20 mm – 40 mm
Insert bearing:
ZMaRC coated or stainless steel

These are non-regreasable units which have an accurately machined piloting diameter to position the unit in the bore of the mounting surface, eliminating the need for any additional adjustments. The insert bearings and load ratings are the same as standard units with the same shaft diameter. A grease fitting can be furnished on special order. A regreasable unit is denoted by adding a "G" suffix to the unit part number.

Mounting interchangeable with the following:

AMI	UCFCS
Dodge	FC-SC
Hub City	FC350
McGill	PFC4-25
Sealmaster	SFC

Other shaft sizes may be available on special order.

Contact MRC at 1-800-MRC-7000 regarding pricing, availability or technical service for all Marathon series products, or for information on regreasable units.

Marathon series nomenclature

Shaft size

Inches:

First digit: Number of inches

Second and third digits: Number of sixteenths of an inch

Example: 103 indicates $1\frac{3}{16}$ (unit)

Metric:

First two digits: Number of millimeters

Example: 25 would indicate 25 millimeters

CPB 103 ZM

Housing

CPB - Gray composite pillow block

ZPB - ZMaRC-coated cast iron pillow block

SPB - Cast stainless steel pillow block

C2F - Gray composite 2-bolt flange

Z2F - ZMaRC-coated cast iron 2-bolt flange

S2F - Cast stainless steel 2-bolt flange

C4F - Gray composite 4-bolt flange

Z4F - ZMaRC-coated cast iron 4-bolt flange

S4F - Cast stainless steel 4-bolt flange

CTB - Gray composite tapped-base pillow block

ZTB - ZMaRC-coated cast iron tapped-base pillow block

STB - Cast stainless steel tapped-base pillow block

CBF - Gray composite 3-bolt bracket flange

CTN - Gray composite narrow-slot take-up

CTW - Gray composite wide-slot take-up

Insert bearing

L - Lock collar bearing unit

ZM - ZMaRC coated

SS - Stainless steel

G - Relubricatable bearing unit

ZMR - ZMaRC-coated insert bearing, with a $1\frac{1}{4}$ " bore, fitted into a housing that usually accommodates a $1\frac{3}{16}$ " insert bearing

SSR - Stainless steel insert bearing, with a $1\frac{1}{4}$ " bore, fitted into a housing that usually accommodates a $1\frac{3}{16}$ " insert bearing

HT - High temperature plane bearing

SB - Submersible plane bearing

HTR - High temperature insert bearing with a $1\frac{1}{4}$ " bore, fitted into a housing that usually accommodates a $1\frac{3}{16}$ " insert bearing

SBR - Submersible insert bearing with a $1\frac{1}{4}$ " bore, fitted into a housing that usually accommodates a $1\frac{3}{16}$ " insert bearing

Picker hub applications

Stainless steel bearings with solid lubricant pack (W64F)

Single row deep groove (SRDG), doubled sealed, stainless steel ball bearings are available with solid lubricant pack in a food-grade formulation identified as W64F. This lubricant is USDA approved for use in food related applications with incidental food contact. It has excellent oil lubricating properties and helps prevent grease washout and contamination under harsh operating conditions. This lubricant pack combined with stainless steel bearing components and synthetic rubber seals, provides a significant increase in bearing life in these applications.

Stainless steel single row, deep groove ball bearings packed with W64F solid lubricant are available from stock in five sizes, as shown in the table below. In addition to the suffix "ST" to denote stainless steel, a descriptive suffix "-W64F" is included to distinguish them from standard stainless steel bearings. Other sizes can be furnished on special order.

Technical data

Maximum operating temperatures

The temperature limits, measured on the bearing outside diameter are:

Maximum continuous: 180° F (82° C)
Maximum intermittent: 200° F (93° C)

Load ratings

Load ratings for bearings lubricated with W64F solid lubricant are the same as for standard bearings.

Speed limits

The speed limit N_{dm}, is dependent on the bearing bore and outside diameters, and RPM, in the following relationship:

$$N_{dm} = \text{RPM} \times \frac{(\text{Bore} + \text{O.D.})}{2}$$

(bore, OD in mm)

For double sealed or shielded, single row, deep groove, stainless steel ball bearings, the limiting value of N_{dm} is 240,000.

It is important to note that as ambient or externally produced temperatures increase, the maximum operating speed may have to be reduced, to keep the bearing operating temperature within the maximum operating limit. As with most bearing lubricants, reducing bearing temperature adds to the capability of W64F.



For equivalent load and life calculations see page 52 and 53 in the MRC Engineering Handbook.

MRC bearing number	Bore		Outside diameter		Width		Fillet radius ¹⁾		Zd ²⁾		Basic radial load rating			
	d	in	D	in	B	in	r _a	in	mm	in	C ²⁾	lbf	C ₀	lbf
203SZZST-W64F	17	.6693	40	1.5748	12	.4724	.64	.025	361	.56	7 650	1 720	4 750	1 070
204SZZST-W64F	20	.7874	47	1.8504	14	.5512	1.0	.040	503	.78	10 200	2 280	6 550	1 470
205SZZST-W64F	25	.9843	52	2.0472	15	.5906	1.0	.040	568	.88	11 200	2 520	7 800	1 750
207SZZST-W64F	35	1.3780	72	2.8346	17	.6693	1.0	.040	1 110	1.72	20 400	4 590	15 300	3 440
304SZZST-W64F	20	.7874	52	2.0472	15	.5906	1.0	.040	632	.98	12 700	2 860	7 800	1 750

¹⁾ Fillet radius indicates maximum fillet radius on shaft or in housing which bearing corner will clear.

²⁾ Rating for one million revolutions or 500 hours at 33 1/3 RPM.

Marathon series product range

Stainless steel single row deep groove (SRDG) ball bearings

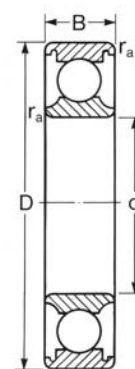
MRC stainless steel (SRDG) ball bearings are used in fish, poultry and other food processing applications. Examples of popular applications include automatic filleting and sizing equipment aboard fishing trawlers, and evisceration equipment in poultry plants.

MRC stainless steel SRDG ball bearings exhibit significantly longer life than standard

bearings in a wide range of demanding applications.

All MRC stainless steel SRDG ball bearings can also be specified with a solid lubricant pack that prevents grease washout during washdowns and helps protect against contamination in harsh environments.

For equivalent load and life calculations see page 52 and 53 in the MRC Engineering Handbook.



MRC bearing number	Bore		Outside diameter		Width		Fillet radius ¹⁾		Zd ²⁾		Basic radial load rating		Speed rating Open and shielded		Single & double sealed grease RPM
	d	in	D	in	B	in	r _a	in	mm	in	Dynamic C ₀ ²⁾	Static C ₀	grease RPM	oil RPM	
38ZZST	8.0	.3150	22.0	.8661	7.0	.2756	.30	.012	110	.17	2 600	585	1 360	306	23 000
R2ST	3.2	.1250	9.5	.3750	4.0	.1562	.30	.012	19	.03	250	56	120	27	52 000
R2FFST	3.2	.1250	9.5	.3750	4.0	.1562	.30	.012	19	.03	250	56	120	27	52 000
R3FFST	4.8	.1875	12.7	.5000	5.0	.1960	.30	.012	39	.06	765	172	490	110	40 000
R3ZZST	4.8	.1875	12.7	.5000	5.0	.1960	.30	.012	39	.06	765	172	490	110	40 000
R4FFST	6.4	.2500	15.9	.6250	5.0	.1960	.30	.012	45	.07	1 180	266	620	139	31 000
R6FFST	9.5	.3750	22.2	.8750	7.1	.2812	.41	.016	110	.17	2 660	597	1 340	301	21 000
R6ZZST	9.5	.3750	22.2	.8750	7.1	.2812	.41	.016	110	.17	2 660	597	1 340	301	21 000
R8ST	12.7	.5000	28.6	1.1250	6.4	.2500	.41	.016	181	.28	4 060	912	2 400	540	16 000
R8FFST	12.7	.5000	28.6	1.1250	7.9	.3125	.41	.016	181	.28	4 060	912	2 400	540	16 000
R8ZZST	12.7	.5000	28.6	1.1250	7.9	.3125	.41	.016	181	.28	4 060	912	2 400	540	16 000
R10ZZST	15.9	.6250	34.9	1.3750	8.7	.3438	.79	.031	226	.35	4 840	1 090	3 250	731	13 000
R12FFST	19.1	.7500	41.3	1.6250	11.1	.4375	.79	.031	361	.56	7 490	1 680	5 100	1 150	11 000
R12ZZST	19.1	.7500	41.3	1.6250	11.1	.4375	.79	.031	361	.56	7 490	1 680	5 100	1 150	11 000
101KSZZST	12.0	.4724	28.0	1.1024	8.0	.3125	.30	.012	181	.28	4 060	912	2 360	530	17 000
102KSZZST	15.0	.5906	32.0	1.2598	9.0	.3543	.30	.012	206	.32	4 470	1 010	2 850	640	14 000
103KSZZST	17.0	.6693	35.0	1.3780	10.0	.3937	.30	.012	226	.35	4 840	1 090	3 250	730	13 000
104KSZZST	20.0	.7874	42.0	1.6535	12.0	.4724	.64	.025	361	.56	7 490	1 680	5 000	1 120	11 000
105KSZZST	25.0	.9843	47.0	1.8504	12.0	.4724	.64	.025	458	.71	8 960	2 010	6 550	1 470	9 500
106KSZZST	30.0	1.1811	55.0	2.1654	13.0	.5118	1.00	.040	561	.87	9 470	2 130	7 390	1 660	8 000
200SZZST	10.0	.3937	30.0	1.1811	9.0	.3543	.64	.025	181	.28	4 060	912	2 360	531	17 000
201SST	12.0	.4724	32.0	1.2598	10.0	.3937	.64	.025	252	.39	5 510	1 240	3 100	697	15 000
201SZZST	12.0	.4724	32.0	1.2598	10.0	.3937	.64	.025	252	.39	5 510	1 240	3 100	697	15 000
202SST	15.0	.5906	35.0	1.3780	11.0	.4331	.64	.025	290	.45	6 240	1 400	3 250	843	13 000
202SFFST	15.0	.5906	35.0	1.3780	11.0	.4331	.64	.025	290	.45	6 240	1 400	3 250	843	13 000
202SZZST	15.0	.5906	35.0	1.3780	11.0	.4331	.64	.025	290	.45	6 240	1 400	3 250	843	13 000
203SFFST	17.0	.6693	40.0	1.5748	12.0	.4724	.64	.025	361	.56	7 650	1 720	4 750	1 070	12 000
203SZZST	17.0	.6693	40.0	1.5748	12.0	.4724	.64	.025	361	.56	7 650	1 720	4 750	1 070	12 000
204SST	20.0	.7874	47.0	1.8504	14.0	.5512	1.00	.040	503	.78	10 200	2 280	6 550	1 470	10 000
204SZZST	20.0	.7874	47.0	1.8504	14.0	.5512	1.00	.040	503	.78	10 200	2 280	6 550	1 470	10 000
205SFFST	25.0	.9843	52.0	2.0472	15.0	.5906	1.00	.040	568	.88	11 200	2 520	7 800	1 750	8 500
205SZZST	25.0	.9843	52.0	2.0472	15.0	.5906	1.00	.040	568	.88	11 200	2 520	7 800	1 750	8 500
206SST	30.0	1.1811	62.0	2.4409	16.0	.6299	1.00	.040	819	1.27	15 600	3 510	11 200	2 520	7 500
206SFFST	30.0	1.1811	62.0	2.4409	16.0	.6299	1.00	.040	819	1.27	15 600	3 510	11 200	2 520	7 500
206SZZST	30.0	1.1811	62.0	2.4409	16.0	.6299	1.00	.040	819	1.27	15 600	3 510	11 200	2 520	7 500
207SZZST	35.0	1.3780	72.0	2.8346	17.0	.6693	1.00	.040	1 111	1.72	20 500	4 610	15 300	3 440	6 300
304SZZST	20.0	.7874	52.0	2.0472	15.0	.5906	1.00	.040	632	.98	12 700	2 860	7 800	1 750	9 500
305SZZST	25.0	.9843	62.0	2.4409	17.0	.6693	1.00	.040	864	1.34	17 000	3 810	10 800	2 430	7 500

1) Fillet radius indicates maximum fillet radius on shaft or in housing which bearing corner will clear.

2) Rating for one million revolutions or 500 hours at 33 1/3 RPM.

3) Listed values are for a pressed stainless steel cage; ABEC.1. The speed ratings have been determined through historical application and practice.

Marathon series tolerances and dimensional data

Insert bearing bore tolerance and radial clearance

Bearing bore diameter		inch									mm				
		3/4	1	1 1/8	1 1/16	1 1/4	1 3/8	1 7/16	1 1/2	1 15/16	20	25	30	35	40
Bore tolerance -.0000	in	+.0007	+.0007	+.0008	+.0008	+.0008	+.0008	+.0008	+.0008	+.0008	+.0007	+.0007	+.0008	+.0008	+.0008
	mm	+.018	+.018	+.020	+.020	+.020	+.020	+.020	+.020	+.020	+.018	+.018	+.020	+.020	+.020
Radial clearance	in	.0005 - .0011			.0006 - .0013					.007 - .0014	.0005 - .0011		.0006 - .0013		
	mm	.013 - .028			.015 - .033					.018 - .036	.013 - .028		.015 - .033		

Shaft diameter tolerances

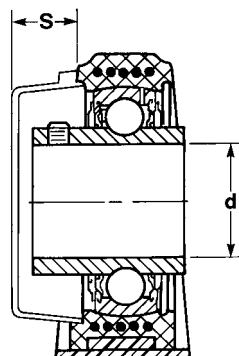
Shaft diameter in	Tolerance in
up to 1 15/16	+0.0000 / -0.0005
2-4	+0.0000 / -0.0010

For stainless steel insert bearings (RRH series), the above tolerances are especially critical because of the bearing material properties. Undersized shafting, excessive set-screw tightening, and severe environmental conditions can result in excessive ring distortion which can effect the performance of the bearing. Therefore, it is highly recommended that the proper set-screw torque and shaft diameter tolerance be used (see assembly instructions on pages 40 and 41).

End cover available on pillow blocks (CPB), 2-bolt flange units (C2F) and 4-bolt flange units (C4F).

End cover part number = EC prefix followed by shaft diameter.
Ex.: for a 1-1/8" shaft, EC1-1/8 is the end cover part number.

End covers only available on composite pillow block, 2-bolt and 4-bolt flange housings.



End cover stickout (S)

Shaft diameter d in mm		S in mm
3/4	20	0.709 20.5
	25	0.709 20.5
1	—	0.709 20.5
1 3/16	30	0.874 22.2
1 1/4	35	0.965 24.5
1 3/8	—	0.965 24.5
1 7/16	—	0.965 24.5
1 1/2	40	1.024 26.0

Assembly instructions for MRC Marathon bearing units

Step 1

Remove any burrs on the shaft with emery cloth or a fine file. Wipe the shaft with a clean piece of cloth. Check the shaft diameter to ensure it meets the tolerances shown below.

Shaft diameter tolerances

Shaft diameter in	Tolerance in
up to 1 ¹⁵ / ₁₆	+0.0000 / -0.0005
2-4	+0.0000 / -0.0010

Step 2

Back out all the set-screws of the double set-screw unit to clear the shaft and slide the unit into position on the shaft with the side opposite the shaft locking device leading.

Step 3

Make sure the housing base and mating surfaces are clean and free of any debris or burrs. Ensure that the supporting surface is flat. If the housing requires shims for adjustment, the shims MUST extend the full length and width of the base. Bolt the housing securely to the support. (see Table A for maximum recommended tightening torques for composite housings.) Note: For composite pillow block and flanged housings, a thick flat stainless steel washer should always be installed between the bolt head and mounting base to properly distribute the clamping force.

Step 4

ZMaRC double set-screw inserts

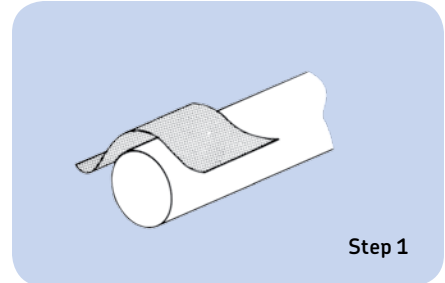
Before the set-screws are tightened, reinspect the position to make sure the housing did not shift when the base bolts were tightened. Tighten each set-screw alternately with the proper hex head socket wrench until they stop turning and the hex head socket wrench starts to spring. Reference Table B for maximum recommended set-screw tightening torque values and wrench dimensions. These values should not be exceeded.

ZMaRC lock collar Inserts

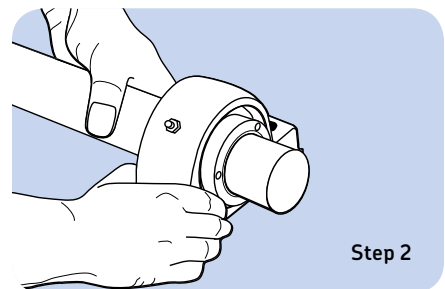
Push the eccentric locking collar in position on the inner ring extension and tighten with a quick jerk in the main direction of rotation of the shaft and then tighten fully using a spanner wrench or hammer and drift. Tighten the set-screw with the proper hex head socket wrench until they stop turning and the hex head socket wrench starts to spring. Reference Table C for maximum recommended set-screw tightening torque values and wrench dimensions. These values should not be exceeded.

Stainless steel inserts

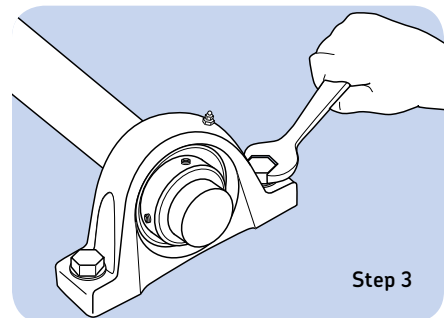
Before the set-screws are tightened, reinspect the position to make sure the housing did not shift when the base bolts were tightened. Remove the set-screws and apply a bonding agent to the set-screw's threads such as LocTite® and insert the set-screws back into the inner ring. Tighten each set-screw alternately with the proper hex head socket wrench until they stop turning and the hex head socket wrench starts to spring. Reference Table D for maximum recommended set-screw tightening torque values and wrench dimensions. These values should not be exceeded.



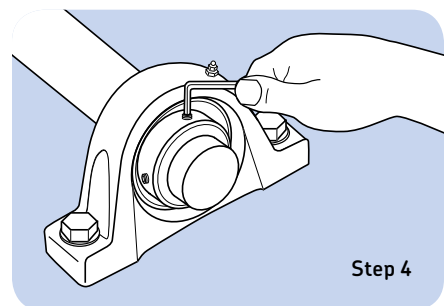
Step 1



Step 2



Step 3



Step 4

Table A

Composite housings maximum bolt tightening torques

Shaft size	Pillow block			2- and 4- bolt flange			Tapped base	
	Bolt diameter		Max. tightening torque in.-lbs.	Bolt diameter tightening torque		Max. torque in.-lbs.	Bolt size UNC thread	Max. tightening
	in.	mm		in.	mm			
3/4"	3/8	10.0	390	3/8	10.0	430	3/8-16	130
1"	3/8	10.0	430	3/8	10.0	430	3/8-16	130
1 1/8"	1/2	12.7	430	3/8	10.0	430	7/16-14	150
1 3/16"	1/2	12.7	430	3/8	10.0	430	7/16-14	150
1 1/4R"	1/2	12.7	430	3/8	10.0	430	7/16-14	150
1 1/4"	1/2	12.7	475	1/2	12.7	430	1/2-13	170
1 7/16"	1/2	12.7	475	1/2	12.7	430	1/2-13	170
1 1/2"	1/2	12.7	520	1/2	12.7	520	1/2-13	170
1 5/16"	5/8	15.9	560	5/8	15.9	520	5/8-11	200
20 mm	3/8	10.0	390	3/8	10.0	430	3/8-16	130
25 mm	3/8	10.0	430	3/8	10.0	430	3/8-16	130
30 mm	1/2	12.7	430	3/8	10.0	430	7/16-14	150
35 mm	1/2	12.7	475	1/2	12.7	430	1/2-13	170
40 mm	1/2	12.7	520	1/2	12.7	520	1/2-13	170

Table B

ZMaRC double set-screw insert bearing set-screw specifications (RRZ-BRR)

Shaft size	Set-screw size	Hex wrench size	Max tightening torque in.-lbs.
3/4"	1/4"-28 x 1/4"	1/8"	87
1"	1/4"-28 x 1/4"	1/8"	87
1 1/8"	1/4"-28 x 1/4"	1/8"	87
1 3/16"	1/4"-28 x 1/4"	1/8"	87
1 1/4R"	1/4"-28 x 1/4"	1/8"	87
1 1/4"	5/16"-24 x 5/16"	5/32"	165
1 7/16"	5/16"-24 x 5/16"	5/32"	165
1 1/2"	5/16"-24 x 5/16"	5/32"	165
1 5/16"	3/8"-24 x 3/8"	3/16"	290
20 mm	M6 x 0.75mm x 5mm	3 mm	87
25 mm	M6 x 0.75mm x 5mm	3 mm	87
30 mm	M6 x 0.75mm x 5mm	3 mm	87
35 mm	M6 x 0.75mm x 7mm	3 mm	165
40 mm	M8 x 1mm x 7mm	4 mm	165

Table C

ZMaRC lock collar insert bearing set-screw specifications (RRZ-BRR-L)

Shaft size	Set-screw size	Hex wrench size	Max tightening torque in.-lbs.
1"	1/4"-28 x 3/16"	1/8"	35
1 3/16"	5/16"-24 x 1/4"	5/32"	80
1 1/4"	3/8"-24 x 3/8"	3/16"	290
1 7/16"	3/8"-24 x 3/8"	3/16"	290
1 5/16"	3/8"-24 x 3/8"	3/16"	290

Table D

Stainless steel insert bearing set-screw specifications (RRH-BRR)

Shaft size	Set-screw size	Hex wrench size	Max tightening torque in.-lbs.
3/4"	1/4"-28 x 3/16"	1/8"	35
1"	1/4"-28 x 3/16"	1/8"	35
1 3/16"	1/4"-28 x 3/16"	1/8"	35
1 1/4R"	1/4"-28 x 3/16"	1/8"	35
1 1/4"	5/16"-24 x 1/4"	5/32"	80
1 3/8"	5/16"-24 x 1/4"	5/32"	80
1 7/16"	5/16"-24 x 1/4"	5/32"	80
1 1/2"	5/16"-24 x 1/4"	5/32"	80
20 mm	M6 x 0.75mm x 5mm	3 mm	35
25 mm	M6 x 0.75mm x 5mm	3 mm	35
30 mm	M6 x 0.75mm x 5mm	3 mm	35
35 mm	M6 x 0.75mm x 7mm	3 mm	35
40 mm	M8 x 1mm x 7mm	4 mm	80

Mounting the insert bearing into the housing

Position the bearing 90° from its normal position and insert it into the slots in the housing, making sure that the set-screws do not interfere with the edge of the housing bore. Then swivel the bearing into position using a piece of tubing through the bore. If the housing has a relubrication fitting, the set-screw side of the bearing should be matched to the side of the housing with the insert slots. In order to ensure that the relubrication fitting and lubrication holes line up, the initial misalignment should not exceed 5 degrees.

Marathon mounted unit basic comparison - inch shafts

Pillow blocks

Shaft diameter		$\frac{3}{4}$		$\frac{15}{16}$	1	$1\frac{1}{8}$	$1\frac{3}{16}$
Housing		Insert bearing					
MRC	Composite Composite ZMaRC-coated cast iron Cast stainless steel	ZMaRC Stainless steel ZMaRC Stainless steel	CPB012ZM CPB012SS ZPB012ZM SPB012SS	CPB015ZM ZPB015ZM	CPB100ZM CPB100SS ZPB100ZM SPB100SS	CPB102ZM ZPB102ZM	CPB103ZM CPB103SS SPB103SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCPPL204-12MZ MUCPPL204-12	UCPPL205-15MZ MUCPPL205-15	UCPPL205-16MZ MUCPPL205-16	UCPPL206-18MZ MUCPPL206-18	UCPPL206-19MZ MUCPPL206-19
Dodge	Polymer Teflon coated	TDC TDC	P2B-SCEZ-012-PCR P2B-SCTC-012-CR	P2B-SCEZ-015-PCR P2B-SCTC-015-CR	P2B-SCEZ-100-PCR P2B-SCTC-100-CR	P2B-SCEZ-102-PCR P2B-SCTC-102-CR	P2B-SCEZ-103-PCR P2B-SCTC-103-CR
Fafnir	Polymer Nickel plated	TDC TDC	YAS $\frac{3}{4}$ PT YAS $\frac{3}{4}$ NT	YAS $\frac{15}{16}$ PT YAS $\frac{15}{16}$ NT	YAS 1 PT YAS 1 NT	YAS $1\frac{1}{8}$ PT YAS $1\frac{1}{8}$ NT	YAS $1\frac{3}{16}$ PT YAS $1\frac{3}{16}$ NT
Hub City	Nickel plated Cast iron	52100 steel 52100 steel	PB25IN- $\frac{3}{4}$ PB25I- $\frac{3}{4}$	PB25IN- $\frac{15}{16}$ PB25I- $\frac{15}{16}$	PB25IN-1 PB25I-1	PB25IN- $1\frac{1}{8}$ PB25I- $1\frac{1}{8}$	PB25IN- $1\frac{3}{16}$ PB25I- $1\frac{3}{16}$
Link-Belt	Nylon coated Nickel plated	Black oxide Black oxide	WP3-S212E P3-S212EK75	WP3-S215E P3-S215EK75	WP3-S216E P3-S216EK75	WP3-S218E P3-S218EK75	WP3-S219E P3-S219EK75
McGill	Nickel plated Cast iron	Black oxide 52100 steel	NC-25- $\frac{3}{4}$ C-25- $\frac{3}{4}$	NC-25- $\frac{15}{16}$ C-25- $\frac{15}{16}$	NC-25-1 C-25-1	NC-25- $1\frac{1}{8}$ C-25- $1\frac{1}{8}$	NC-25- $1\frac{3}{16}$ C-25- $1\frac{3}{16}$
Sealmaster	Polymer coated Polymer coated	TDC Black oxide	BP-12 NP-12C-CR	BP-15 NP-15C-CR	BP-16 NP-16C-CR	BP-18 NP-18C-CR	BP-19 NP-19C-CR
SKF	Cast iron	52100 steel	SY $\frac{3}{4}$ TR	SY $\frac{15}{16}$ TR	SY 1 TR	SY $1\frac{1}{8}$ TR	SY $1\frac{3}{16}$ TR

Two-bolt flange units

Shaft diameter		$\frac{3}{4}$		$\frac{15}{16}$	1	$1\frac{1}{8}$	$1\frac{3}{16}$
Housing		Insert bearing					
MRC	Composite Composite ZMaRC-coated cast iron Cast stainless steel	ZMaRC Stainless steel ZMaRC Stainless steel	C2F012ZM C2F012SS Z2F012ZM S2F012SS	C2F015ZM Z2F015ZM	C2F100ZM C2F100SS Z2F100ZM S2F100SS	C2F102ZM Z2F102ZM	C2F103ZM C2F103SS S2F103SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCNFL204-12MZ MUCNFL204-12	UCNFL205-15MZ MUCNFL205-15	UCNFL205-16MZ MUCNFL205-16	UCNFL206-18MZ MUCNFL206-18	UCNFL206-19MZ MUCNFL206-19
Dodge	Polymer Teflon coated	TDC TDC	F2B-SCEZ-012-PCR F2B-SCTC-012-CR	F2B-SCEZ-015-PCR F2B-SCTC-015-CR	F2B-SCEZ-100-PCR F2B-SCTC-100-CR	F2B-SCEZ-102-PCR F2B-SCTC-102-CR	F2B-SCEZ-103-PCR F2B-SCTC-103-CR
Fafnir	Polymer Nickel plated	TDC TDC	YCJT $\frac{3}{4}$ PT YCJT $\frac{3}{4}$ NT	YCJT $\frac{15}{16}$ PT YCJT $\frac{15}{16}$ NT	YCJT 1 PT YCJT 1 NT	YCJT $1\frac{1}{8}$ PT YCJT $1\frac{1}{8}$ NT	YCJT $1\frac{3}{16}$ PT YCJT $1\frac{3}{16}$ NT
Hub City	Nickel plated Cast iron	52100 steel 52100 steel	FB260N- $\frac{3}{4}$ FB260- $\frac{3}{4}$	FB260N- $\frac{15}{16}$ FB260- $\frac{15}{16}$	FB260N-1 FB260-1	FB260N- $1\frac{1}{8}$ FB260- $1\frac{1}{8}$	FB260N- $1\frac{3}{16}$ FB260- $1\frac{3}{16}$
Link-Belt	Polymer Nylon coated	Black oxide Black oxide	KFX-S212 WFX3-S212E	KFX-S215 WFX3-S215E	KFX-S216 WFX3-S216E	KFX-S218 WFX3-S218E	KFX-S219 WFX3-S219E
McGill	Nickel plated Cast iron	Black oxide 52100 steel	NFC2-25- $\frac{3}{4}$ FC2-25- $\frac{3}{4}$	NFC2-25- $\frac{15}{16}$ FC2-25- $\frac{15}{16}$	NFC2-25-1 FC2-25-1	NFC2-25- $1\frac{1}{8}$ FC2-25- $1\frac{1}{8}$	NFC2-25- $1\frac{3}{16}$ FC2-25- $1\frac{3}{16}$
Sealmaster	Polymer coated Polymer coated	TDC Black oxide	BFT-12 SFT-12C-CR	BFT-15 SFT-15C-CR	BFT-16 SFT-16C-CR	BFT-18 SFT-18C-CR	BFT-19 SFT-19C-CR
SKF	Cast iron	52100 steel	FYTB $\frac{3}{4}$ TR	FYTB $\frac{15}{16}$ TR	FYTB 1 TR	FYTB $1\frac{1}{8}$ TR	FYTB $1\frac{3}{16}$ TR

Marathon mounted unit basic comparison - inch shafts

Pillow blocks

	1 ¹ / ₄	1 ¹ / ₄	1 ³ / ₈	1 ⁷ / ₁₆	1 ¹ / ₂	1 ¹⁵ / ₁₆
MRC	CPB104ZMR CPB104SSR ZPB104ZMR SPB104SSR	CPB104ZM CPB104SS ZPB104ZM SPB104SS	CPB106SS SPB106SS	CPB107ZM CPB107SS ZPB107ZM SPB107SS	CPB108ZM CPB108SS ZPB108ZM SPB108SS	CPB115ZM ZPB115ZM
AMI	UCPPL206-20MZ MUCPPL206-20	UCPPL207-20MZ MUCPPL207-20	UCPPL207-22MZ MUCPPL207-22	UCPPL207-23MZ MUCPPL207-23	UCPPL208-24MZ MUCPPL208-24	
Dodge	P2B-SCUEZ-104S-PCR P2B-SCTC-104S-CR	P2B-SCUEZ-104-PCR P2B-SCTC-104-CR	P2B-SCEZ-106-PCR P2B-SCTC-106-CR	P2B-SCEZ-107-PCR P2B-SCTC-107-CR	P2B-SCBEZ-108-PCR P2B-SCTC-108-CR	P2B-SCBEZ-115-PCR P2B-SCTC-115-CR
Fafnir	YAS 1 ¹ / ₄ SPT YAS 1 ¹ / ₄ SNT	YAS 1 ¹ / ₄ PT YAS 1 ¹ / ₄ NT	YAS 1 ³ / ₈ PT YAS 1 ³ / ₈ NT	YAS 1 ⁷ / ₁₆ PT YAS 1 ⁷ / ₁₆ NT	YAS 1 ¹ / ₂ PT YAS 1 ¹ / ₂ NT	YAS 1 ¹⁵ / ₁₆ PT YAS 1 ¹⁵ / ₁₆ NT
Hub City	PB25IN-1 ¹ / ₄ S PB25I-1 ¹ / ₄ S	PB25IN-1 ¹ / ₄ PB25I-1 ¹ / ₄	PB25IN-1 ³ / ₈ PB25I-1 ³ / ₈	PB25IN-1 ⁷ / ₁₆ PB25I-1 ⁷ / ₁₆	PB25IN-1 ¹ / ₂ PB25I-1 ¹ / ₂	PB25IN-1 ¹⁵ / ₁₆ PB25I-1 ¹⁵ / ₁₆
Link-Belt	WP3-S2E20E P3-S2E20EK75	WP3-S220E P3-S220EK75	WP3-S222E P3-S222EK75	WP3-S223E P3-S223EK75	WP3-S224E P3-S224EK75	WP3-S231E P3-S231EK75
McGill	NC-25-1 ¹ / ₄ S C-25-1 ¹ / ₄ S	NC-25-1 ¹ / ₄ C-25-1 ¹ / ₄	NC-25-1 ³ / ₈ C-25-1 ³ / ₈	NC-25-1 ⁷ / ₁₆ C-25-1 ⁷ / ₁₆	NC-25-1 ¹ / ₂ C-25-1 ¹ / ₂	NC-25-1 ¹⁵ / ₁₆ C-25-1 ¹⁵ / ₁₆
Sealmaster	BP-20R NP-20RC-CR	BP-20 NP-20C-CR	BP-22 NP-22C-CR	BP-23 NP-23C-CR	BP-24 NP-24C-CR	BP-31 NP-31C-CR
SKF	SY 1 ¹ / ₄ STR	SY 1 ¹ / ₄ TR	SY 1 ³ / ₈ TR	SY 1 ⁷ / ₁₆ TR	SY 1 ¹ / ₂ TR	

Two-bolt flange units

	1 ¹ / ₄	1 ¹ / ₄	1 ³ / ₈	1 ⁷ / ₁₆	1 ¹ / ₂	1 ¹⁵ / ₁₆
MRC	C2F104ZMR C2F104SSR Z2F104ZMR S2F104SSR	C2F104ZM C2F104SS Z2F104ZM S2F104SS	C2F106SS Z2F106SS	C2F107ZM C2F107SS Z2F107ZM S2F107SS	C2F108ZM C2F108SS Z2F108ZM S2F108SS	C2F115ZM Z2F115ZM
AMI	UCNFL206-20MZ MUCNFL206-20	UCNFL207-20MZ MUCNFL207-20	UCNFL207-22MZ MUCNFL207-22	UCNFL207-23MZ MUCNFL207-23	UCNFL208-24MZ MUCNFL208-24	
Dodge	F2B-SCEZ-104S-PCR F2B-SCTC-104S-CR	F2B-SCEZ-104-PCR F2B-SCTC-104-CR	F2B-SCEZ-106-PCR F2B-SCTC-106-CR	F2B-SCEZ-107-PCR F2B-SCTC-107-CR	F2B-SCEZ-108-PCR F2B-SCTC-108-CR	F2B-SCEZ-115-PCR F2B-SCTC-108-CR
Fafnir	YCJT 1 ¹ / ₄ SPT YCJT 1 ¹ / ₄ SNT	YCJT 1 ¹ / ₄ PT YCJT 1 1/4 NT	YCJT 1 ³ / ₈ PT YCJT 1 ³ / ₈ NT	YCJT 1 ⁷ / ₁₆ PT YCJT 1 ⁷ / ₁₆ NT	YCJT 1 ¹ / ₂ PT YCJT 1 ¹ / ₂ NT	YCJT 1 ¹⁵ / ₁₆ PT YCJT 1 ¹⁵ / ₁₆ NT
Hub City	FB260N-1 ¹ / ₄ S FB260-1 ¹ / ₄ S	FB260N-1 ¹ / ₄ FB260-1 ¹ / ₄	FB260N-1 ³ / ₈ FB260-1 ³ / ₈	FB260N-1 ⁷ / ₁₆ FB260-1 ⁷ / ₁₆	FB260N-1 ¹ / ₂ FB260-1 ¹ / ₂	FB260N-1 ¹⁵ / ₁₆ FB260-1 ¹⁵ / ₁₆
Link-Belt	KFX-S2E20 WFX-S2E20E	KFX-S220 WFX-S220E	KFX-S222 WFX-S222E	KFX-S223 WFX3-S223E	KFX-S224 WFX3-S224E	WFX3-S231E
McGill	NFC2-25-1 ¹ / ₄ S FC2-25-1 ¹ / ₄ S	NFC2-25-1 ¹ / ₄ FC2-25-1 ¹ / ₄	NFC2-25-1 ³ / ₈ FC2-25-1 ³ / ₈	NFC2-25-1 ⁷ / ₁₆ FC2-25-1 ⁷ / ₁₆	NFC2-25-1 ¹ / ₂ FC-25-1 1/2	NFC2-25-1 ¹⁵ / ₁₆ FC-25-1 ¹⁵ / ₁₆
Sealmaster	BFT-20R SFT-20RC-CR	BFT-20 SFT-20C-CR	BFT-22 SFT-22C-CR	BFT-23 SFT-23C-CR	BFT-24 SFT-24C-CR	BFT-31 SFT-31C-CR
SKF	FYTB 1 ¹ / ₄ STR	FYTB 1 ¹ / ₄ TR	FYTB 1 ³ / ₈ TR	FYTB 1 ⁷ / ₁₆ TR	FYTB 1 ¹ / ₂ TR	

Marathon mounted unit basic comparison - inch shafts

Four-bolt flange units

Shaft diameter		$\frac{3}{4}$		$\frac{15}{16}$	1	$1\frac{1}{8}$	$1\frac{3}{16}$
Housing		Insert bearing					
MRC	Composite Composite ZMaRC-coated cast Iron Cast stainless steel	ZMaRC Stainless steel ZMaRC Stainless steel	C4F012ZM C4F012SS Z4F012ZM S4F012SS	C4F015ZM Z4F015ZM	C4F100ZM C4F100SS Z4F100ZM S4F100SS	C4F102ZM Z4F102ZM	C4F103ZM C4F103SS Z4F103ZM S4F103SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCFPL204-12MZ MUCFPL204-12	UCFPL205-15MZ MUCFPL205-15	UCFPL205-16MZ MUCFPL205-16	UCFPL206-18MZ MUCFPL206-18	UCFPL206-19MZ MUCFPL206-19
Dodge	Polymer Teflon coated	TDC TDC	F4B-SCEZ-012-PCR F4B-SCTC-012-CR	F4B-SCEZ-015-PCR F4B-SCTC-015-CR	F4B-SCEZ-100-PCR F4B-SCTC-100-CR	F4B-SCEZ-102-PCR F4B-SCTC-102-CR	F4B-SCEZ-103-PCR F4B-SCTC-103-CR
Fafnir	Polymer Nickel plated	TDC TDC	YCJ $\frac{3}{4}$ PT YCJ $\frac{3}{4}$ NT	YCJ $\frac{15}{16}$ PT YCJ $\frac{15}{16}$ NT	YCJ 1 PT YCJ 1 NT	YCJ $1\frac{1}{8}$ PT YCJ $1\frac{1}{8}$ NT	YCJ $1\frac{3}{16}$ PT YCJ $1\frac{3}{16}$ NT
Hub City	Nickel plated Cast iron	52100 steel 52100 steel	FB250N- $\frac{3}{4}$ FB250- $\frac{3}{4}$	FB250N- $\frac{15}{16}$ FB250- $\frac{15}{16}$	FB250N-1 FB250-1	FB250N- $1\frac{1}{8}$ FB250- $1\frac{1}{8}$	FB250N- $1\frac{3}{16}$ FB250- $1\frac{3}{16}$
Link-Belt	Polymer Nylon coated	Black oxide Black oxide	KF-S212 WF3-S212E	KF-S215 WF3-S215E	KF-S216 WF3-S216E	KF-S218 WF3-S218E	KF-S219 WF3-S219E
McGill	Nickel plated Cast iron	Black oxide 52100 steel	NFC4-25- $\frac{3}{4}$ FC4-25- $\frac{3}{4}$	NFC4-25- $\frac{15}{16}$ FC4-25- $\frac{15}{16}$	NFC4-25-1 FC4-25-1	NFC4-25- $1\frac{1}{8}$ FC4-25- $1\frac{1}{8}$	NFC4-25- $1\frac{3}{16}$ FC4-25- $1\frac{3}{16}$
Sealmaster	Polymer coated Polymer coated	TDC Black oxide	BF-12 SF-12C-CR	BF-15 SF-15C-CR	BF-16 SF-16C-CR	BF-18 SF-18C-CR	BF-19 SF-19C-CR
SKF	Cast iron	52100 steel	FY $\frac{3}{4}$ TR	FY $\frac{15}{16}$ TR	FY 1 TR	FY $1\frac{1}{8}$ TR	FY $1\frac{3}{16}$ TR

Tapped-base pillow blocks

Shaft diameter		$\frac{3}{4}$		$\frac{15}{16}$	1	$1\frac{1}{8}$	$1\frac{3}{16}$
Housing		Insert bearing					
MRC	Composite Composite ZMaRC-coated cast iron Cast stainless steel	ZMaRC Stainless steel ZMaRC Stainless steel	CTB012ZM CTB012SS ZTB012ZM STB012SS	CTB015ZM ZTB015ZM	CTB100ZM CTB100SS ZTB100ZM STB100SS	CTB102ZM ZTB102ZM	CTB103ZM CTB103SS ZTB103ZM STB103SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCTBL204-12MZ MUCTBL204-12	UCTBL205-15MZ MUCTBL205-15	UCTBL205-16MZ MUCTBL205-16	UCTBL206-18MZ MUCTBL206-18	UCTBL206-19MZ MUCTBL206-19
Dodge	Polymer Cast iron	TDC 52100 steel	TB-SCEZ-012-PCR TB-SC-012	TB-SCEZ-015-PCR TB-SC-015	TB-SCEZ-100-PCR TB-SC-100	TB-SCEZ-102-PCR TB-SC-102	TB-SCEZ-103-PCR TB-SC-103
Fafnir	Cast iron	52100 steel	STB $\frac{3}{4}$	STB $\frac{15}{16}$	STB 1	STB $1\frac{1}{8}$	STB $1\frac{3}{16}$
Hub City	Cast iron	52100 steel	TBP250- $\frac{3}{4}$	TBP250- $\frac{15}{16}$	TBP250-1	TPB250- $1\frac{1}{8}$	TBP250- $1\frac{3}{16}$
Link Belt	Nickel plated Nylon coated	Black oxide Black oxide	PT3-S212EK75 WPT3-S212E	PT3-S215EK75 WPT3-S215E	PT3-S216EK75 WPT3-S216E	PT3-S218EK75 WPT3-S218E	PT3-S219EK75 WPT3-S219E
McGill	Cast iron	52100 steel	TBC-25- $\frac{3}{4}$	TBC-25- $\frac{15}{16}$	TBC-25-1	TBC-25- $1\frac{1}{8}$	TBC-25- $1\frac{3}{16}$
Sealmaster	Polymer coated Cast iron	TDC 52100 steel	BTB-12 TB-12	BTB-15 TB-15	BTB-16 TB-16	BTB-18 TB-18	BTB-19 TB-19

Marathon mounted unit basic comparison - inch shafts

Four-bolt flange units

	1 ¹ / ₄	1 ¹ / ₄	1 ³ / ₈	1 ⁷ / ₁₆	1 ¹ / ₂	1 ¹⁵ / ₁₆
MRC	C2F104ZMR C2F104SSR Z2F104ZMR S2F104SSR	C2F104ZM C2F104SS Z2F104ZM S2F104SS	C2F106SS S2F106SS	C2F107ZM C2F107SS Z2F107ZM S2F107SS	C2F108ZM C2F108SS Z2F108ZM S2F108SS	C2F115ZM Z2F115ZM
AMI	UCFPL206-20MZ MUCFPL206-20	UCFPL207-20MZ MUCFPL207-20	UCFPL207-22MZ MUCFPL207-22	UCFPL207-23MZ MUCFPL207-23	UCFPL208-24MZ MUCFPL208-24	
Dodge	F4B-SCEZ-104S-PCR F4B-SCEZ-104S-CR	F4B-SCEZ-104-PCR F4B-SCEZ-104-CR	F4B-SCEZ-106-PCR F4B-SCTC-106-CR	F4B-SCEZ-107-PCR F4B-SCEZ-107-CR	F4B-SCEZ-108-PCR F4B-SCEZ-108-CR	F4B-SCEZ-115-PCR F4B-SCEZ-115-CR
Fafnir	YCJ 1 ¹ / ₄ SPT YCJ 1 ¹ / ₄ SNT	YCJ 1 ¹ / ₄ PT YCJ 1 ¹ / ₄ NT	YCJ 1 ³ / ₈ PT YCJ 1 ³ / ₈ NT	YCJ 1 ⁷ / ₁₆ PT YCJ 1 ⁷ / ₁₆ NT	YCJ 1 ¹ / ₂ PT YCJ 1 ¹ / ₂ NT	YCJ 1 ¹⁵ / ₁₆ PT YCJ 1 ¹⁵ / ₁₆ NT
Hub City	FB250N-1 ¹ / ₄ S FB250-1 ¹ / ₄ S	FB250N-1 ¹ / ₄ FB250-1 ¹ / ₄	FB250N-1 ³ / ₈ FB250-1 ³ / ₈	FB250N-1 ⁷ / ₁₆ FB250-1 ⁷ / ₁₆	FB250N-1 ¹ / ₂ FB250-1 ¹ / ₂	FB250N-1 ¹⁵ / ₁₆ FB250-1 ¹⁵ / ₁₆
Link-Belt	KF-S2E20 WF3-S2E20E	KF-S220 WF3-S220E	KF-S222 WF3-S222E	KF-S223 WF3-S223E	KF-S224 WF3-S224E	WF3-S231E
McGill	NFC4-25-1 ¹ / ₄ S FC4-25-1 ¹ / ₄ S	NFC4-25-1 ¹ / ₄ FC4-25-1 ¹ / ₄	NFC4-25-1 ³ / ₈ FC4-25-1 ³ / ₈	NFC4-25-1 ⁷ / ₁₆ FC4-25-1 ⁷ / ₁₆	NFC4-25-1 ¹ / ₂ FC4-25-1 ¹ / ₂	NFC4-25-1 ¹⁵ / ₁₆ FC4-25-1 ¹⁵ / ₁₆
Sealmaster	BF-20R SF-20RC-CR	BF-20 SF-20C-CR	BF-22 SF-22C-CR	BF-23 SF-23C-CR	BF-24 SF-24C-CR	BF-31 SF-31C-CR
SKF	FY 1 ¹ / ₄ STR	FY 1 ¹ / ₄ TR	FY 1 ³ / ₈ TR	FY 1 ⁷ / ₁₆ TR	FY 1 ¹ / ₂ TR	

Tapped-base pillow blocks

	1 ¹ / ₄	1 ¹ / ₄	1 ³ / ₈	1 ⁷ / ₁₆	1 ¹ / ₂	1 ¹⁵ / ₁₆
MRC	CTB104ZMR CTB104SSR ZTB104ZMR STB104SSR	CTB104ZM CTB104SS ZTB104ZM STB104SS	CTB106SS STB106SS	CTB107ZM CTB107SS ZTB107ZM STB107SS	CTB108ZM CTB108SS ZTB108ZM STB108SS	CTB115ZM ZTB115ZM
AMI	UCTBL206-20MZ MUUCTBL206-20	UCTBL207-20MZ MUUCTBL207-20	UCTBL207-22MZ MUUCTBL207-22	UCTBL207-23MZ MUUCTBL207-23	UCTBL207-24MZ MUUCTBL207-24	
Dodge	TB-SCEZ-104S-PCR TB-SC-104S	TB-SCEZ-104-PCR TB-SC-104	TB-SCEZ-106-PCR TB-SC-106	TB-SCEZ-107-PCR TB-SC-107	TB-SCEZ-108-PCR TB-SC-108	TB-SC-115
Fafnir	STB 1 ¹ / ₄ S	STB 1 ¹ / ₄	STB 1 ³ / ₈	STB 1 ⁷ / ₁₆	STB 1 ¹ / ₂	
Hub City	TBP250-1 ¹ / ₄ S	TBP250-1 ¹ / ₄	TBP250-1 ³ / ₈	TBP250-1 ⁷ / ₁₆	TBP250-1 ¹ / ₂	TBP250-1 ¹⁵ / ₁₆
Link Belt	PT3-S2E20EK75 WPT3-S2E20E	PT3-S220EK75 WPT3-S220E	PT3-S222EK75 WPT3-S222E	PT3-S223EK75 WPT3-S223E	PT3-S224EK75	PT3-S231EK75 WPT3-S231E
McGill	TBC-25-1 ¹ / ₄ S	TBC-25-1 ¹ / ₄	TBC-25-1 ³ / ₈	TBC-25-1 ⁷ / ₁₆	TBC-25-1 ¹ / ₂	TBC-25-1 ¹⁵ / ₁₆
Sealmaster	BTB-20R TB-20R	BTB-20 TB-20	BTB-22 TB-22	BTB-23 TB-23	BTB-24 TB-24	BTB-31 TB-31

Marathon mounted unit basic comparison - inch shafts

Three-bolt bracket flange units

Shaft diameter			³ / ₄	¹⁵ / ₁₆	1	1 ¹ / ₈	1 ³ / ₁₆
Housing		Insert bearing					
MRC	Composite Composite	ZMaRC Stainless steel	CBF012ZM CBF012SS	CBF015ZM	CBF100ZM CBF100SS	CBF102ZM	CBF103ZM CBF0103SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCFBL204-12MZ MUCFBL204-12	UCFBL205-15MZ MUCFBL205-15	UCFBL205-16MZ MUCFBL205-16		
Dodge	Polymer Nylon coated	TDC TDC	FB-SCEZ-012-CR FB-SCEZ-012-NY	FB-SCEZ-015-CR FB-SCEZ-015-NY	FB-SCEZ-100-CR FB-SCEZ-100-NY	FB-SCEZ-102-CR FB-SCEZ-102-NY	FB-SCEZ-104S-NY
Link Belt	Nickel plated Nylon coated	Black oxide Black oxide	FB3-S212EK75 WFB3-S212E	FB3-S215EK75 WFB3-S215E	FB3-S216EK75 WFB3-S216E	FB3-S218EK75 WFB3-S218E	FB3-S219EK75 WFB3-S219E
McGill	Nickel plated Cast iron	Black oxide 52100 steel	NMFB- ³ / ₄ MFB- ³ / ₄	NMFB- ¹⁵ / ₁₆ MFB- ¹⁵ / ₁₆	NMFB-1 MFB-1	NMFB-1 ¹ / ₈ MFB-1 ¹ / ₈	NMFB-1 ³ / ₁₆ MFB-1 ³ / ₁₆
Sealmaster	Polymer coated Polymer coated	TDC Black oxide	BFB-12 FB-12C-CR	BFB-15 FB-15C-CR	BFB-16 FB-16C-CR	BFB-18 FB-18C-CR	BFB-19 FB-19C-CR

Narrow-slot take-up units

Shaft diameter			³ / ₄	¹⁵ / ₁₆	1	1 ¹ / ₈	1 ³ / ₁₆
Housing		Insert bearing					
MRC	Composite Composite	ZMaRC Stainless steel	CTN012ZM CTN012SS	CTN015ZM	CTN100ZM CTN100SS	CTN102ZM	CTN103ZM CTN103SS
Dodge	Polymer Nickel plated	TDC 52100 steel	NSTU-SCEZ-012-PCR NSTU-SCNP-012	NSTU-SCEZ-015-CR NSTU-SCNP-015	NSTU-SCEZ-100-PCR NSTU-SCNP-100	NSTU-SCEZ-102-CR NSTU-SCNP-102	NSTU-SCEZ-103-PCR NSTU-SCNP-103
Hub City	Nickel plated Ductile iron	52100 steel 52100 steel	TU250N- ³ / ₄ TU250- ³ / ₄	TU250N- ¹⁵ / ₁₆ TU250- ¹⁵ / ₁₆	TU250N-1 TU250-1	TU250N-1 ¹ / ₈ TU250-1 ¹ / ₈	TU250N-1 ³ / ₁₆ TU250-1 ³ / ₁₆

Wide-slot take-up units

Shaft diameter			³ / ₄	¹⁵ / ₁₆	1	1 ¹ / ₈	1 ³ / ₁₆
Housing		Insert bearing					
MRC	Composite Composite	ZMaRC Stainless steel	CTW012ZM CTW012SS	CTW015ZM	CTW100ZM CTW100SS	CTW102ZM	CTW103ZM CTW103SS
AMI	Polymer Polymer	Black oxide Stainless Steel	UCTPL204-12MZ MUCTPL204-12	UCTPL205-15MZ MUCTPL205-15	UCTPL205-16MZ MUCTPL205-16	UCTPL206-18MZ MUCTPL206-18	UCTPL206-19MZ MUCTPL206-19
Dodge	Polymer Nickel plated	TDC 52100 steel	WSTU-SCEZ-012-PCR WSTU-SCNP-012	WSTU-SCEZ-015-PCR WSTU-SCNP-015	WSTU-SCEZ-100-PCR WSTU-SCNP-100	WSTU-SCEZ-102-CR WSTU-SCNP-102	WSTU-SCEZ-103-PCR WSTU-SCNP-103
Hub City Link Belt	Ductile iron Nickel plated	52100 steel Black oxide	WSTU- ³ / ₄ TH3-S212EK75	WSTU- ¹⁵ / ₁₆ TH3-S215EK75	WSTU-1 TH3-S216EK75	WSTU-1 ¹ / ₈ TH3-S218EK75	WSTU-1 ³ / ₁₆ TH3-S219EK75
McGill	Nylon coated Nickel plated	Black oxide Black oxide	WTH3-S212E NTC-25- ³ / ₄	WTH3-S215E NTC-25- ¹⁵ / ₁₆	WTH3-S216E NTC-25-1	WTH3-S218E NTC-25-1 ¹ / ₈	WTH3-S219E NTC-25-1 ³ / ₁₆
Sealmaster	Polymer Polymer	TDC Black oxide	BST-12 ST-12	BST-15 ST-15	BST-16 ST-16	BST-18 ST-18	BST-19 ST-19
SKF	Cast iron	52100 steel	TU ³ / ₄ TR	TU ¹⁵ / ₁₆ TR	TU1TR	TU 1 ¹ / ₈ TR	TU 1 ³ / ₁₆ TR

Marathon mounted unit basic comparison - inch shafts

Three-bolt bracket flange units

	1 ¹ / ₄	1 ¹ / ₄	1 ³ / ₈	1 ⁷ / ₁₆	1 ¹ / ₂	1 ¹⁵ / ₁₆
MRC	CBF104ZMR CBF104SSR	CBF104ZM CBF104SS	CBF106SS	CBF107ZM CBF107SS	CBF108ZM CBF108SS	CBF115ZM
AMI						
Dodge	FB-SCEZ-104-CR	FB-SCEZ-106-CR	FB-SCEZ-107-CR			
Link Belt	FB3-S2E20EK75 WFB3-S2E20E	FB3-S220EK75 WFB3-S220E	FB3-S222EK75 WFB3-S222E	FB3-S223EK75 WFB3-S223E		
McGill	NMFB-1 ¹ / ₄ S MFB-1 ¹ / ₄ S	NMFB-1 ¹ / ₄ MFB-1 ¹ / ₄	NMFB-1 ³ / ₈ MFB-1 ³ / ₈	NMFB-1 ⁷ / ₁₆ MFB-1 ⁷ / ₁₆		NMFB-1 ¹⁵ / ₁₆ MFB-1 ¹⁵ / ₁₆
Sealmaster	BFB-20R FB-20RC-CR	BFB-20 FB-20C-CR	BFB-22 FB-22C-CR	BFB-23 FB-23C-CR	BFB-24 FB-24C-CR	BFB-31 FB-31C-CR

Narrow-slot take-up units

	1 ¹ / ₄	1 ¹ / ₄	1 ³ / ₈	1 ⁷ / ₁₆	1 ¹ / ₂	1 ¹⁵ / ₁₆
MRC	CTN104ZMR CTN104SSR	CTN104ZM CTN104SS	CTN106SS	CTN107ZM CTN107SS	CTN108ZM CTN108SS	CTN115ZM
Dodge	NSTU-SCEZ-104S-PCR NSTU-SCNP-104	NSTU-SCEZ-104-PCR NSTU-SCNP-104	NSTU-SCEZ-106-PCR NSTU-SCNP-106	NSTU-SCEZ-107-PCR NSTU-SCNP-107	NSTU-SCEZ-108-PCR NSTU-SCNP-108	NSTU-SCEZ-115-PCR NSTU-SCNP-115
Hub City	TU250N-1 ¹ / ₄ S TU250-1 ¹ / ₄ S	TU250N-1 ¹ / ₄ TU250-1 ¹ / ₄	TU250N-1 ³ / ₈ TU250-1 ³ / ₈	TU250N-1 ⁷ / ₁₆ TU250-1 ⁷ / ₁₆	TU250N-1 ¹ / ₂ TU250-1 ¹ / ₂	TU250N-1 ¹⁵ / ₁₆ TU250-1 ¹⁵ / ₁₆

Wide-slot take-up units

	1 ¹ / ₄	1 ¹ / ₄	1 ³ / ₈	1 ⁷ / ₁₆	1 ¹ / ₂	1 ¹⁵ / ₁₆
MRC	CTW104ZMR CTW104SSR	CTW104ZM CTW104SS	CTW106SS	CTW107ZM CTW107SS	CTW108ZM CTW108SS	CTW115ZM
AMI	UCTPL206-20MZ MUCTPL206-20	UCTPL207-20MZ MUCTPL207-20	UCTPL207-22MZ MUCTPL207-22	UCTPL207-23MZ MUCTPL207-23	UCTPL208-24MZ MUCTPL208-24	
Dodge	WSTU-SCEZ-104S-PCR WSTU-SCNP-104S	WSTU-SCEZ-104-PCR WSTU-SCNP-104	WSTU-SCEZ-106-PCR WSTU-SCNP-106	WSTU-SCEZ-107-PCR WSTU-SCNP-107	WSTU-SCEZ-108-PCR WSTU-SCNP-108	WSTU-SCEZ-115-PCR WSTU-SCNP-115
Hub City Link Belt	WSTU-1 ¹ / ₄ S TH3-S2E20EK75	WSTU-1 ¹ / ₄ TH3-S220EK75	WSTU-1 ³ / ₈ TH3-S222EK75	WSTU-1 ⁷ / ₁₆ TH3-S223EK75	WSTU-1 ¹ / ₂ TH3-S224EK75	WSTU-1 ¹⁵ / ₁₆ TH3-S231E
McGill	WTH3-S2E20E NTC-25-1 ¹ / ₄ S	WTH3-S220E NTC-25-1 ¹ / ₄	WTH3-S222E NTC-25-1 ³ / ₈	WTH3-S223E NTC-25-1 ⁷ / ₁₆	WTH3-S224E NTC-25-1 ¹ / ₂	WTH3-S231E NTC-25-1 ¹⁵ / ₁₆
Sealmaster	BST-20R ST-20R	BST-20 ST-20	BST-22 ST-22	BST-23 ST-23	BST-24 ST-24	BST-31 ST-31
SKF	TU 1 ¹ / ₄ STR	TU 1 ¹ / ₄ TR	TU 1 ³ / ₈ TR	TU 1 ⁷ / ₁₆ TR	TU 1 ¹ / ₂ TR	TU 1 ¹⁵ / ₁₆ TR

Marathon mounted unit basic comparison - metric shafts

Pillow blocks

Shaft diameter			20mm	25mm	30mm	35mm	40mm
Housing		Insert bearing					
MRC	Composite Composite ZMaRC-coated cast iron Cast stainless steel	ZMaRC Stainless steel ZMaRC Stainless steel	CPB20ZM CPB20SS ZPB20ZM SPB20SS	CPB25ZM CPB25SS ZPB25ZM SPB25SS	CPB30ZM CPB30SS ZPB30ZM SPB30SS	CPB35ZM CPB35SS ZPB35ZM SPB35SS	CPB40ZM CPB40SS ZPB40ZM SPB40SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCPPL-204MZ MUCPPL-204	UCPPL-205MZ MUCPPL-205	UCPPL-206MZ MUCPPL-206	UCPPL-207MZ MUCPPL-207	UCPPL-208MZ MUCPPL-208
Dodge	Polymer Cast iron	TDC 52100 steel	P2B-SCEZ-20M-WCR P2B-SC-20M	P2B-SCEZ-25M-WCR P2B-SC-25M	P2B-SCEZ-30M-WCR P2B-SC-30M	P2B-SCEZ-35M-WCR P2B-SC-35M	P2B-SCEZ-40M-WCR P2B-SC-40M
Fafnir	Cast iron Polymer	52100 steel TDC	YAS20 YAS20PT	YAS25 YAS25PT	YAS30 YAS30PT	YAS35 YAS35PT	YAS40 YAS40PT
Link-Belt	Nickel plated Cast iron	Black oxide 52100 steel	P3-U2M20NK75 P3-U2M20N	P3-U2M25NK75 P3-U2M25N	P3-U2M30NK75 P3-U2M30N	P3-U2M35NK75 P3-U2M35N	P3-U2M40NK75 P3-U2M40N
McGill	Nickel plated Cast iron	Black oxide 52100 steel	NC-25-20 C-25-20	NC-25-25 C-25-25	NC-25-30 C-25-30	NC-25-35 C-25-35	NC-25-40 C-25-40
Sealmaster	Nickel plated Cast iron	Black oxide 52100 steel	NP-204NK NP-204	NP-205NK NP-205	NP-206NK NP-206	NP-207NK NP-207	NP-208NK NP-208
SKF	Cast iron	52100 steel	SY20TR	SY25TR	SY30TR	SY35TR	SY40TR

Two-bolt flange units

Shaft diameter			20mm	25mm	30mm	35mm	40mm
Housing		Insert bearing					
MRC	Composite Composite ZMaRC-coated cast iron Cast stainless steel	ZMaRC Stainless steel ZMaRC Stainless steel	C2F20ZM C2F20SS Z2F20ZM S2F20SS	C2F25ZM C2F25SS Z2F25ZM S2F25SS	C2F30ZM C2F30SS Z2F30ZM S2F30SS	C2F35ZM C2F35SS Z2F35ZM S2F35SS	C2F40ZM C2F40SS Z2F40ZM S2F40SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCNFL-204MZ MUCNFL-204	UCNFL-205MZ MUCNFL-205	UCNFL-206MZ MUCNFL-206	UCNFL-207MZ MUCNFL-207	UCNFL-208MZ MUCNFL-208
Dodge	Polymer Cast iron	TDC 52100 steel	F2B-SCEZ-20M-WCR F2B-SC-20M	F2B-SCEZ-25M-WCR F2B-SC-25M	F2B-SCEZ-30M-WCR F2B-SC-30M	F2B-SCEZ-35M-WCR F2B-SC-35M	F2B-SCEZ-40M-WCR F2B-SC-40M
Fafnir	Polymer Cast iron	TDC 52100 steel	YCJT20PT YCJT20	YCJT25PT YCJT25	YCJT30PT YCJT30	YCJT35PT YCJT35	YCJT40
Link-Belt	Polymer Nylon coated	Black oxide Black oxide	KFX-2M20E KLF-2M20E	KFX-2M25E KLF-2M25E	KFX-2M30E KLF-2M30E		
McGill	Nickel plated Cast iron	Black oxide 52100 steel	NFC2-25-20 FC2-25-20	NFC2-25-25 FC2-25-25	NFC2-25-30 FC2-25-30	NFC2-25-35 FC2-25-35	NFC2-25-40 FC2-25-40
Sealmaster	Nickel plated Cast iron	Black oxide 52100 steel	SFT-204NK SFT-204	SFT-205NK SFT-205	SFT-206NK SFT-206	SFT-207NK SFT-207	SFT-208NK SFT-208
SKF	Cast iron	52100 steel	FYBT20TR	FYBT25TR	FYBT30TR	FYBT35TR	FYBT40TR

Four-bolt flange units

Shaft diameter			20mm	25mm	30mm	35mm	40mm
Housing		Insert bearing					
MRC	Composite Composite ZMaRC-coated cast iron Cast stainless steel	ZMaRC Stainless steel ZMaRC Stainless steel	C4F20ZM C4F20SS Z4F20ZM S4F20SS	C4F25ZM C4F25SS Z4F25ZM S4F25SS	C4F30ZM C4F30SS Z4F30ZM S4F30SS	C4F35ZM C4F35SS Z4F35ZM S4F35SS	C4F40ZM C4F40SS Z4F40ZM S4F40SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCFPL-204MZ MUCFPL-204	UCFPL-205MZ MUCFPL-205	UCFPL-206MZ MUCFPL-206	UCFPL-207MZ MUCFPL-207	UCFPL-208MZ MUCFPL-208
Dodge	Polymer Cast iron	TDC 52100 steel	F4B-SCEZ-20M-WCR F4B-SC-20M	F4B-SCEZ-25M-WCR F4B-SC-25M	F4B-SCEZ-30M-WCR F4B-SC-30M	F4B-SCEZ-35M-WCR F4B-SC-35M	F4B-SCEZ-40M-WCR F4B-SC-40M
Fafnir	Polymer Cast iron	TDC 52100 steel	YCJ20PT YCJ20	YCJ25PT YCJ25	YCJ30PT YCJ30	YCJ35PT YCJ35	YCJ40PT YCJ40
Link-Belt	Polymer Teflon coated	Black oxide Black oxide		KF-2M25E KLF-2M25E	KF-2M30E KLF-2M30E	KF-2M35E KLF-2M35E	KF-2M40E KLF-2M40E
McGill	Nickel plated Cast iron	Black oxide 52100 steel	NFC4-25-20 FC4-25-20	NFC4-25-25 FC4-25-25	NFC4-25-30 FC4-25-30	NFC4-25-35 FC4-25-35	NFC4-25-40 FC4-25-40
Sealmaster	Nickel plated Cast iron	Black oxide 52100 steel	SF-204NK SF-204	SF-205NK SF-205	SF-206NK SF-206	SF-207NK SF-207	SF-208NK SF-208
SKF	Cast iron	52100 steel	FY20TR	FY25TR	FY30TR	FY35TR	FY40TR

Marathon mounted unit basic comparison - metric shafts

Tapped-base pillow blocks

	Shaft diameter		20mm	25mm	30mm	35mm	40mm
	Housing	Insert bearing					
MRC	Composite	ZMaRC	CTB20ZM	CTB25ZM	CTB30ZM	CTB35ZM	CTB40ZM
	Composite	Stainless steel	CTB20SS	CTB25SS	CTB30SS	CTB35SS	CTB40SS
	ZMaRC-coated cast iron	ZMaRC	ZTB20ZM	ZTB25ZM	ZTB30ZM	ZTB35ZM	ZTB40ZM
	Cast stainless steel	Stainless steel	STB20SS	STB25SS	STB30SS	STB35SS	STB40SS
AMI	Polymer	Black oxide	UCTBL-204MZ	UCTBL-205MZ	UCTBL-206MZ	UCTBL-207MZ	UCTBL-208MZ
	Polymer	Stainless steel	MUCTBL-204	MUCTBL-205	MUCTBL-206	MUCTBL-207	MUCTBL-208
Fafnir	Cast iron	52100 steel	STB20	STB25	STB30	STB35	STB40
McGill	Cast iron	52100 steel	TBC-25-20	TBC-25-25	TBC-25-30	TBC-25-35	TBC-25-40
Sealmaster	Cast iron	52100 steel	TB-204	TB-205	TB-206	TB-207	TB-208

Three-bolt bracket flange units

	Shaft diameter		20mm	25mm	30mm	35mm	40mm
	Housing	Insert bearing					
MRC	Composite Composite	ZMaRC Stainless steel	CBF20ZM CBF20SS	CBF25ZM CBF25SS	CBF30ZM CBF30SS	CBF35ZM CBF35SS	CBF40ZM CBF40SS
AMI McGill	Cast iron Nickel plated	52100 steel Black oxide	UCFK-204 NMFB-20	UCFK-205 NMFB-25	UCFK-206 NMFB-30	UCFK-207 NMFB-35	UCFK-208 NMFB-40
Sealmaster	Cast iron	52100 steel	FB-204	FB-205	FB-206	FB-207	FB-208

Narrow-slot take-up units

Shaft diameter		20mm		25mm		30mm		35mm		40mm	
Housing		Insert bearing									
MRC	Composite	ZMaRC	CTN20ZM	CTN25ZM	CTN30ZM	CTN35ZM	CTN40ZM				
	Composite	Stainless steel	CTN20SS	CTN25SS	CTN30SS	CTN35SS	CTN40SS				
Dodge	Nickel plated	52100 steel	NSTUSC20MNP	NSTUSC25MNP	NSTUSC30MNP	NSTUSC35MNP	NSTUSC40MNP				
	Cast iron	52100 steel	NSTUSC20M	NSTUSC25M	NSTUSC30M	NSTUSC35M	NSTUSC40M				

Wide-slot take-up units

Shaft diameter			20mm	25mm	30mm	35mm	40mm
Housing		Insert bearing					
MRC	Composite Composite	ZMaRC Stainless steel	CTW20ZM CTW20SS	CTW25ZM CTW25SS	CTW30ZM CTW30SS	CTW35ZM CTW35SS	CTW40ZM CTW40SS
AMI	Polymer Polymer	Black oxide Stainless steel	UCTPL-204MZ MUCTPL-204	UCTPL-205MZ MUCTPL-205	UCTPL-206MZ MUCTPL-206	UCTPL-207MZ MUCTPL-207	UCTPL-208MZ MUCTPL-208
Dodge Sealmaster	Cast iron Polymer	52100 steel Black oxide	WSTU-SC-20M ST-204	WSTU-SC-25M ST-205	WSTU-SC30M ST-206	WSTU-SC-35M ST-207	WSTU-SC-40M ST-208
SKF	Cast iron	52100 steel	TU20TR	TU25TR	TU30TR	TU35TR	TU40TR



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