

Threaded Bars & Fasteners



150 KSI All-Thread-Bar Accessories



Hex Nut

Rounded Collar Nut

R73 Hex Nuts - ASTM A29 or A576

Bar Diameter	Across Flats	Across Corners	Thickness	Part Number
1" (26 mm)	1-3/4" (44.5 mm)	2.02" (51.3 mm)	2" (50.8 mm)	R73-08
1-1/4" (32 mm)	2-1/4" (57.2 mm)	2.60" (66.0 mm)	2-1/2" (63.5 mm)	R73-10
1-3/8" (36 mm)	2-1/2" (63.5 mm)	2.89" (73.4 mm)	2-3/4" (69.9 mm)	R73-11
1-3/4" (46 mm)	3" (76.2 mm)	3.46" (87.9 mm)	3-1/2" (88.9 mm)	R73-14
2-1/4" (57 mm)	3-1/2" (88.9 mm)	4" (102 mm)	4-1/4" (108 mm)	R73-18
2-1/2" (65 mm)	4-1/4" (108 mm)	4.90" (124 mm)	4-3/4" (121 mm)	R73-20
3" (75 mm)	4-1/4" (108 mm)	5" (127 mm)	6-1/8" (156 mm)	R74-24

* Rounded collar nut with OD of 5" (127 mm).



ASTM A29, Grade C1045 or ASTM A576

R72 Stop-Type Coupling

Bar Diameter	Outside Diameter	Overall Length	Part Number
1" (26 mm)	1-3/4" (44.5 mm)	4-1/4" (108 mm)	R72-08
1-1/4" (32 mm)	2-1/8" (54.0 mm)	5-1/4" (133 mm)	R72-10
1-3/8" (36 mm)	2-3/8" (60.3 mm)	5-3/4" (146 mm)	R72-11
1-3/4" (46 mm)	3" (76.2 mm)	8-1/2" (216 mm)	R72-14
2-1/4" (57 mm)	3-1/2" (88.9 mm)	9" (229 mm)	R72-18
2-1/2" (65 mm)	4-1/4" (108 mm)	9-3/8" (238 mm)	R72-20
3" (75 mm)	5" (127 mm)	11-7/8" (302 mm)	R72-24



R9F Hardened Washers - ASTM F436

Bar Diameter	Outside Diameter	Inside Diameter	Thickness	Part Number
1" (26 mm)	2-1/4" (57.2 mm)	1-1/4" (31.8 mm)	5/32" (3.97 mm)	R9F-09-436
1-1/4" (32 mm)	2-3/4" (69.9 mm)	1-1/2" (38.1 mm)	5/32" (3.97 mm)	R9F-11-436
1-3/8" (36 mm)	3" (76.2 mm)	1-5/8" (41.3 mm)	5/32" (3.97 mm)	R9F-12-436
1-3/4" (46 mm)	3-3/4" (95.3 mm)	2-1/8" (54.0 mm)	7/32" (5.56 mm)	R9F-16-436
2-1/4" (57 mm)	4-1/2" (114 mm)	2-5/8" (66.7 mm)	9/32" (7.14 mm)	R9F-20-436
2-1/2" (65 mm)	5" (127 mm)	2-7/8" (73.0 mm)	9/32" (7.14 mm)	R9F-22-436
3" (75 mm)	6" (152 mm)	3-3/8" (85.7 mm)	9/32" (7.14 mm)	R9F-26-436



Domed Washer

Provides up to 5° angle when used with a dished plate.

R88 Spherical Hex Nuts - ASTM A536

Bar Diameter	Across Flats	Thickness	Outside Dome	Part Number
1" (26 mm)	1-3/4" (44.5 mm)	2-1/4" (57.2 mm)	2-1/2" (63.5 mm)	R88-08
1-1/4" (32 mm)	2-1/4" (57.2 mm)	2-3/4" (69.9 mm)	3-1/8" (79.5 mm)	R88-10
1-3/8" (36 mm)	2-1/2" (63.5 mm)	3-1/4" (82.6 mm)	3-5/8" (90.2 mm)	R88-11
1-3/4" (46 mm)	3" (76.2 mm)	3-1/2" (88.9 mm)	4" (102 mm)	R88-14
2-1/4" (57 mm)	3-1/2" (88.9 mm)	5-3/4" (146 mm)	5-1/2" (140 mm)	R73-18 R81-18
2-1/2" (65 mm)	4-1/4" (108 mm)	6-1/2" (165 mm)	6" (152 mm)	R73-20 R81-20
3" (75 mm)	4-1/4" (108 mm)	8-1/8" (206 mm)	7" (178 mm)	R74-24 R81-24

* Requires a standard nut with spherical washer assembly.
** Requires rounded collar nut with spherical washer assembly.



These Jam Nuts can't be substitute for full strength nuts and can't be used on bars other than Williams 150 KSI All-Thread-Bars of the same diameter.

R73-JN Jam Nuts - ASTM A29, C1045

Bar Diameter	Across Flats	Thickness	Part Number
1" (26 mm)	1-3/4" (44.5 mm)	1/2" (12.7 mm)	R73-08JN
1-1/4" (32 mm)	2-1/4" (57.2 mm)	5/8" (15.9 mm)	R73-10JN
1-3/8" (36 mm)	2-1/2" (63.5 mm)	11/16" (17.5 mm)	R73-11JN
1-3/4" (46 mm)	3" (76.2 mm)	7/8" (22.2 mm)	R73-14JN
2-1/4" (57 mm)	3-1/4" (82.6 mm)	1" (25.4 mm)	R73-18JN
2-1/2" (65 mm)	4" (102 mm)	1-3/16" (30.2 mm)	R73-20JN
3" (75 mm)	4-1/2" (114 mm)	2" (50.8 mm)	R74-24JN

* Rounded collar nut



R8M Beveled Washers - ASTM A47 or ASTM A536

Bar Diameter	Degree of Bevel	Outside Diameter	Inside Diameter	Maximum Thickness	Minimum Thickness	Part Number
1" (26 mm)	10°	2-27/32" (72.2 mm)	1-7/16" (36.5 mm)	7/8" (22.2 mm)	3/8" (9.52 mm)	R8M-08-150
1-1/4" (32 mm)	15°	5-1/4" (133 mm)	1-21/32" (42.1 mm)	1-41/64" (41.7 mm)	19/64" (7.54 mm)	R8M-10-150
1-3/8" (36 mm)	15°	5-1/4" (133 mm)	1-25/32" (45.2 mm)	1-41/64" (41.7 mm)	19/64" (7.54 mm)	R8M-11-150
1-3/4" (46 mm)	10°	5-1/2" (140 mm)	2-1/2" (63.5 mm)	1-23/32" (43.7 mm)	3/4" (19.0 mm)	R8M-14-150
2-1/4" (57 mm)	10°	6-1/2" (165 mm)	3" (76.2 mm)	1-7/8" (47.6 mm)	3/4" (19.0 mm)	R8M-18-150
2-1/2" (65 mm)	10°	7-1/2" (190 mm)	3-1/2" (88.9 mm)	2-31" (58.7 mm)	1" (25.4 mm)	R8M-20-150
3" (75 mm)	10°	8" (203 mm)	3-5/8" (92.1 mm)	2-43" (61.7 mm)	1" (25.4 mm)	R8M-24-150

* Additional USS Hardened Washer Required