

HELICAL A and H SERIES, Special Bore Configurations

Basic Model Number		Outside Diameter		Special Bore Diameters			
Integral Clamp Attachment	Set Screw Attachment	Outside Diameter Designator	D Outside Diameter (in.)	With Relief		Restricted Bore Configurations*	
				Minimum Size in. & (mm)	Maximum Size in. & (mm)	Maximum Size in. & (mm)	Bore Depth in. & (mm)
ACR / HCR	AR / HR	050	1/2	0.090 (2.29)	0.125 (3.18)	0.236 (6.00)	0.19 (4.83)
				0.090 (2.29)	0.125 (3.18)	0.315 (8.00)	0.12 (3.05)
ACR / HCR	AR / HR	062	5/8	0.090 (2.29)	0.197 (5.00)	0.325 (8.26)	0.20 (5.08)
				0.090 (2.29)	0.197 (5.00)	0.375 (9.53)	0.14 (3.56)
ACR / HCR	AR / HR	075	3/4	0.118 (3.00)	0.250 (6.35)	0.390 (9.90)	0.25 (6.35)
				0.118 (3.00)	0.250 (6.35)	0.512 (13.00)	0.18 (4.57)
ACR / HCR	AR / HR	087	7/8	0.138 (3.50)	0.315 (8.00)	0.444 (11.27)	0.31 (7.87)
				0.118 (3.00)	0.315 (8.00)	0.630 (16.00)	0.20 (5.08)
ACR / HCR	AR / HR	100	1	0.156 (3.96)	0.375 (9.53)	0.563 (14.31)	0.31 (7.87)
				0.156 (3.96)	0.375 (9.53)	0.630 (16.00)	0.26 (6.60)
ACR / HCR	AR / HR	112	1 1/8	0.188 (4.78)	0.512 (13.00)	0.684 (17.38)	0.46 (11.43)
				0.188 (4.78)	0.512 (13.00)	0.630 (16.00)	0.27 (6.86)
ACR / HCR	AR / HR	125	1 1/4	0.313 (7.94)	0.625 (15.88)	0.669 (17.00)	0.51 (12.95)
				0.313 (7.94)	0.625 (15.88)	0.750 (19.05)	0.32 (8.13)

HELICAL A SERIES, Aluminum, Technical Data

Basic Model Number			Dimensional Information		Standard Bore Diameters		Performance Data		Inertia	Screw Size		Seating Torque	Center Line
Integral Clamp Attachment	Set Screw Attachment	Outside Diameter Designator	D Outside Diameter (in.)	L Length (in.)	(+.002in/- .000in) Note 6		Momentary Dynamic Torque Note 2 (lbin)	Torsional Rate (degree/lbin)	x 10 ⁻⁵ (lbinsec ²) Note 7	Integral Clamp Note 4	Set Screw Note 4	(lbin)	(in.)
					Size in. & (mm)	Bore Designator (1/32nd in.)							
ACR	AR	050	1/2	0.75	0.094 (2.39)	3	3.7	0.98	0.11	1-72		4.0	.09
				0.50	0.125 (3.18)	4	3.5	1.3	0.069		2-56	1.3	.06
ACR	AR	062	5/8	0.80	0.125 (3.18)	4	7.1	0.51	0.28	2-56		4.5	.10
				0.62	0.157 (3.99)	5	6.7	0.66	0.21		4-40	4.3	.07
ACR	AR	075	3/4	0.90	0.125 (3.18)	4	10	0.29	0.66	4-40		10	.12
				0.75	0.157 (3.99)	5	10	0.36	0.54		6-32	8.0	.09
ACR	AR	087	7/8	1.06	0.188 (4.78)	6	19	0.20	1.5	6-32		19	.15
				0.87	0.250 (6.35)	8	17	0.28	1.2		6-32	8.0	.10
ACR	AR	100	1	1.25	0.250 (6.35)	8	27	0.17	3.0	6-32		19	.15
				1.00	0.313 (7.95)	10	24	0.24	2.3		10-24	25	.15
ACR	AR	112	1 1/8	1.50	0.250 (6.35)	8	43	0.094	5.6	6-32		19	.15
				1.12	0.313 (7.95)	10	40	0.12	4.1		10-24	25	.14
ACR	AR	125	1 1/4	1.62	0.375 (9.53)	12	48	0.11	9.3	10-24		50	.22
				1.25	0.500 (12.70)	16*	39	0.20	6.9		1/4-20	65	.16
					0.625 (15.88)	20*	29	0.37					

Notes

1. Shaft misalignments:

Angular 5 degrees
Parallel Offset .010 in. (.020 in. T.I.R.)
Axial Motion ± .010 in.

2. Dynamic torque ratings are momentary values. For non-reversing applications, divide by 2. Divide by 4 for reversing applications. Should the torque ratings be marginal for your application, contact us for analysis.

3. Material: 7075-T6 aluminum alloy used for ACR / AR series.

Finish: clear anodize

4. Metric fasteners available on request.

5. Manufacturing dimensional tolerances unless otherwise specified are:

fraction ± 1/64
x.xx ± .01

6. [Click Here](#) for other available bore dimensions

7. Inertia is based on smallest standard bore diameter.

8. With integral clamp attachments only, this bore size requires an operating clearance diameter greater than coupling outside diameter.