



**HELICAL A SERIES Aluminum, Technical Data**

①		②		③ & ④			Attachment Screw									
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.)	Size in. & (mm)	Bore Designator (1/32 in.)	Momentary Dynamic Torque Note 2 (lbin)	Torsional Rate (degree/lbin)	x 10 <sup>-5</sup> (lbinsec <sup>2</sup> ) Note 7	Integral Clamp Note 4	Set Screw Note 4	(lbin)	(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
					0.188 (4.78)	6	6.2	0.86								
ACR	AR	075	3/4	0.90	0.125 (3.18)	4	10	0.29	0.66	4-40		10	.12			
					0.157 (3.99)	5	10	0.36	0.54					6-32	8.0	.09
				0.75	0.188 (4.78)	6	9.8	0.44								
ACR	AR	087	7/8	1.06	0.188 (4.78)	6	19	0.20	1.5	6-32		19	.15			
					0.250 (6.35)	8	17	0.28	1.2					6-32	8.0	.10
				0.87	0.313 (7.95)	10*	15	0.41								
ACR	AR	100	1	1.25	0.250 (6.35)	8	27	0.17	3.0	6-32		19	.15			
					0.313 (7.95)	10	24	0.24	2.3					10-24	25	.15
				1.00	0.375 (9.53)	12	22	0.33								
ACR	AR	112	1 1/8	1.50	0.250 (6.35)	8	43	0.094	5.6	6-32		19	.15			
					0.313 (7.95)	10	40	0.12	4.1					10-24	25	.14
				1.12	0.375 (9.53)	12	37	0.17								
ACR	AR	125	1 1/4	1.62	0.375 (9.53)	12	48	0.11	9.3	10-24		50	.22			
					0.500 (12.70)	16*	39	0.20	6.9					1/4-20	65	.16
				1.25	0.625 (15.88)	20*	29	0.37								

\* Refer to note 8

**Notes**

- Shaft misalignments:  
Angular 5 degrees  
Parallel Offset .010 in.  
(.020 in. T.I.R.)  
Axial Motion ± .010 in.
- 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.
- Material : 7075-T6 aluminum alloy used for ACR / AR series.  
Finish: clear anodize  
or Material: 17-4 PH high-strength stainless steel used for HCR / HR series.  
Finish: natural
- Metric fasteners available on request.
- Manufacturing dimensional tolerances unless otherwise specified are:  
fraction ± 1/64  
x.xx ± .01 in.
- Please refer to page 18 for other available bore dimensions.
- Inertia is based on smallest standard bore diameter.
- With integral clamp attachments only, this bore size requires an operating clearance diameter greater than coupling outside diameter.

**HELICAL H SERIES Stainless Steel, Technical Data**

①		②		③ & ④			Attachment Screw									
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.)	Size in. & (mm)	Bore Designator (1/32 in.)	Momentary Dynamic Torque Note 2 (lbin)	Torsional Rate (degree/lbin)	x 10 <sup>-5</sup> (lbinsec <sup>2</sup> ) Note 7	Integral Clamp Note 4	Set Screw Note 4	(lbin)	(in.)			
HCR	HR	050	1/2	0.75	0.094 (2.39)	3	7.5	0.36	0.31	1-72		4.0	.09			
				0.50	0.125 (3.18)	4	7.0	0.48	0.19					2-56	1.3	.06
HCR	HR	062	5/8	0.80	0.125 (3.18)	4	14	0.19	0.78	2-56		4.5	.10			
					0.157 (3.99)	5	13	0.24	0.58					4-40	4.3	.07
				0.62	0.188 (4.78)	6	12	0.31								
HCR	HR	075	3/4	0.90	0.125 (3.18)	4	21	0.11	1.8	4-40		10	.12			
					0.157 (3.99)	5	20	0.13	1.5					6-32	8.0	.09
				0.75	0.188 (4.78)	6	20	0.16								
HCR	HR	087	7/8	1.06	0.188 (4.78)	6	37	0.072	4.1	6-32		19	.15			
					0.250 (6.35)	8	34	0.10	3.3					6-32	8.0	.10
				0.87	0.313 (7.95)	10*	30	0.15								
HCR	HR	100	1	1.25	0.250 (6.35)	8	52	0.062	8.3	6-32		19	.15			
					0.313 (7.95)	10	47	0.086	6.5					10-32	25	.15
				1.00	0.375 (9.53)	12	42	0.12								
HCR	HR	112	1 1/8	1.50	0.250 (6.35)	8	83	0.035	15.6	6-32		19	.15			
					0.313 (7.95)	10	78	0.045	11.3					10-32	25	.14
				1.12	0.375 (9.53)	12	71	0.061								
HCR	HR	125	1 1/4	1.62	0.375 (9.53)	12	94	0.041	26.0	10-32		56	.22			
					0.500 (12.70)	16*	77	0.071	19.4					1/4-28	65	.16
				1.25	0.625 (15.88)	20*	57	0.13								

\* Refer to note 8

## HELICAL DS SERIES, Aluminum, Technical Data

1		2		3 & 4		Attachment Screw					
Basic Model Number		Dimensional Information		Standard Bore Diameters		Performance Data		Inertia	Screw Size	Seating Torque	Center Line
Integral Clamp Attachment	Outside Diameter Designator	D Outside Diameter (in.)	L Length (in.)	Size in. & (mm)	Bore Designator (1/32 in.)	Momentary Dynamic Torque Note 2 (lbin)	Torsional Rate (degree/lbin)	x 10 <sup>-4</sup> (lbinsec <sup>2</sup> ) Note 7	Integral Clamp Note 4	(lbin)	(in.)
DSAC	075	3/4	1.25	(+.002in/-0.000in) Note 6 0.188 (4.78) 0.250 (6.35)	6 8	14 12	0.30 0.40	0.091	4-40	10	.12
DSAC	100	1	1.50	0.250 (6.35) 0.313 (7.95) 0.375 (9.53)	8 10 12	31 29 25	0.13 0.16 0.19	0.35	6-32	19	.15
DSAC	125	1 1/4	1.75	0.313 (7.95) 0.375 (9.53) 0.500(12.70) 0.625(15.88)	10 12 16* 20*	61 58 47 35	0.062 0.080 0.12 0.19	0.98	10-24	50	.22
DSAC	150	1 1/2	2.25	0.375 (9.53) 0.500(12.70) 0.625(15.88)	12 16 20	130 115 94	0.030 0.042 0.062	2.7	10-24	50	.22
DSAC	200	2	2.50	0.500(12.70) 0.625(15.88) 0.750(19.05)	16 20 24	234 215 190	0.016 0.020 0.026	9.5	1/4-20	120	.26

\* Refer to note 8

### Notes

1. Shaft misalignments:

Angular	3 degrees
Parallel Offset	.010 in. (.020 in. T.I.R.)
Axial Motion	± .008 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  
Finish: clear anodize

4. Metric fasteners available on request.

5. Manufacturing dimensional tolerances unless otherwise specified are:

fraction	± 1/64
x.xx	± .01 in.

6. Please refer to page 18 for other available bore dimensions.

7. Inertia is based on smallest standard bore diameter.

8. This bore size requires an operating clearance diameter greater than coupling outside diameter.