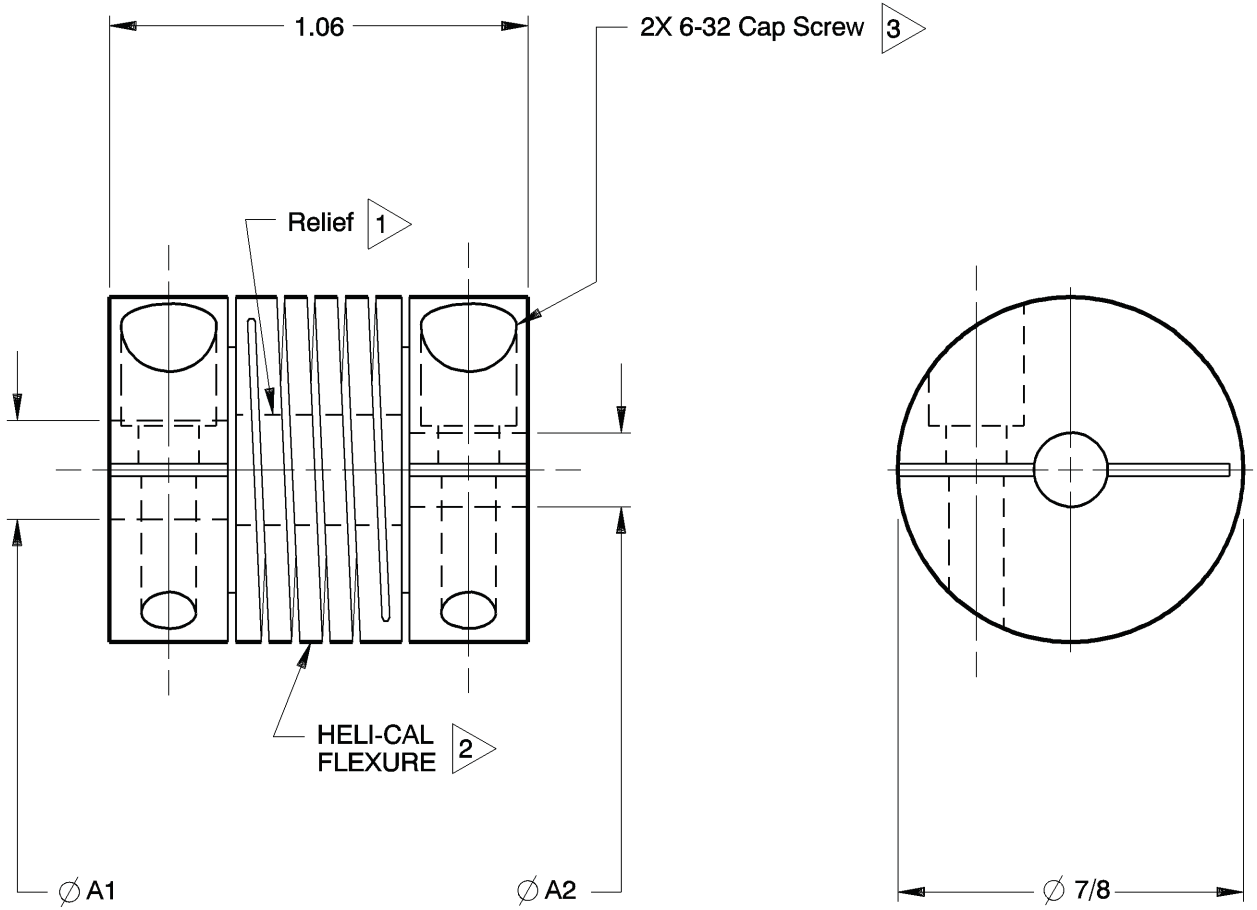
NOTES: See Tabulated Sheet

1. Relief permits component shafts to near butt.
2. Hubs and HELI-CAL FLEXURE are made from a single piece of material.
3. Integral Clamp attachment, hex. socket, cap screw furnished: both hubs.
4. Backlash: None. No lubrication required.
5. Permitted axial motion from free length: ±.010in.
6. RPM: Up to 10,000, depending upon application.
7. Working torque ratings are based upon continuous duty with noted misalignments applied separately and may be increased with improved alignment:

   See Tabulated Sheet
8. Permissible shaft misalignment:

   Angular, up to 5 degrees.
   Offset, up to .010in.
   (TIR, .020in.)
9. Part will have a .895in. Clearance Diameter on both ends when any bore is over .285in. thru .315in. or a 1.025in. Clearance Diameter on both ends when any bore is over .315in. thru .444in.



ACR087-8-6 SHOWN

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DO NOT SCALE DRAWING.

DATE	LTR	REVISION	CHK
12-18-09	---	Finish was Chromic Acid Anodize; Updated GD&T HG	JAJ
1-25-99		Clerical format update/ No revision BJM	MC

Unless otherwise noted dimensions in inches.

Inch
Fractions: ± 1/64
Decimals: .XX ±.010
.XXX ±.005
.XXXX ±.0010

Metric
Decimals: X ± 0.5mm
X.X ± 0.25mm
X.XX ± 0.15mm

Angles: ± 2 degrees
Break sharp corners .010 max.

APPROVALS	DATE
DRAWN MM	12-7-79
CHECKED MC	12-7-79
PRODN APA	12-7-79
ISSUED	
WEIGHT 25g (calc)	
SCALE 2/1	SIZE A

HELICAL PRODUCTS CO.
P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A
PHONE (805) 928-3851 FSC13201

TITLE	HELICAL FLEXIBLE SHAFT COUPLING
MATERIAL	7075-T6 Aluminum Alloy
FINISH	Anodize per HPS1000
DWG NO	ACR087

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ADDITION DATE	PART NUMBER	BORE TOLERANCES +.002in -.000in or +.05mm -.00mm A1 Dia	BORE TOLERANCES A2 Dia	TORQUES (lbin) Non-reversing	TORQUES (lbin) Shock or Reversing	TORQUES (lbin) Momentary	TORSIONAL FLEXIBILITY deg/lbin	MASS MOMENT OF INERTIA	COMMENTS A1	COMMENTS A2
18 Aug 05	ACR087-5-5	.157in	.157in	16	8	32				
19 Sep 02	ACR087-6-3M	.188in	.090in	16	8	32				
	ACR087-6-3mm	.188in	3.00mm	16	8	32				
09 Mar 88	ACR087-6-4	.188in	.125in	16	8	32				
09 Mar 88	ACR087-6-5	.188in	.157in	16	8	32				
	ACR087-6-4mm	.188in	4.00mm	16	8	32				
30 Sep 11	ACR087-6-4.5mm	.188in	4.50mm	16	8	32				
09 Mar 88	ACR087-6-6	.188in	.188in	16	8	32				
18 Oct 04	ACR087-4.9mm-4.9mm	4.90mm	4.90mm	16	8	32				
	ACR087-5mm-5	5.00mm	.157in	16	8	32				
	ACR087-5mm-6	5.00mm	.188in	16	8	32				
18 Aug 05	ACR087-5mm-5mm	5.00mm	5.00mm	16	8	32				
	ACR087-6mm-4	6.00mm	.125in	15	7	30				
	ACR087-6mm-5	6.00mm	.157in	15	7	30				
23 Jun 88	ACR087-6mm-6	6.00mm	.188in	15	7	30				
	ACR087-6mm-5mm	6.00mm	5.00mm	15	7	30				
	ACR087-8M-8M	.240in	.240in	15	7	30				
26 Mar 12	ACR087-8-3M	.250in	.090in	15	7	30				
09 Mar 88	ACR087-8-3	.250in	.094in	15	7	30				
03 Jan 90	ACR087-8-3mm	.250in	3.00mm	15	7	30				
09 Mar 88	ACR087-8-4M	.250in	.120in	15	7	30				
09 Mar 88	ACR087-8-4	.250in	.125in	15	7	30				
09 Mar 88	ACR087-8-5	.250in	.157in	15	7	30				
23 Jun 88	ACR087-8-4mm	.250in	4.00mm	15	7	30				
09 Oct 06	ACR087-8-4.5mm	.250in	4.50mm	15	7	30				
	ACR087-8-4.62mm	.250in	4.62mm	15	7	30				

* NOTE: Bores greater than .315in Dia: bore depth is .310in

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS	DATE
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HELICAL PRODUCTS CO.
P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A
PHONE (805) 928-3851 FSCI3201

TITLE HELICAL FLEXIBLE SHAFT COUPLING

TABULATED BORE SIZES

DWG NO ACR087

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ADDITION DATE	PART NUMBER	BORE TOLERANCES +.002in -.000in or +.05mm -.00mm A1 Dia	BORE TOLERANCES A2 Dia	TORQUES (lbin) Non-reversing	TORQUES (lbin) Shock or Reversing	TORQUES (lbin) Momentary	TORSIONAL FLEXIBILITY deg/lbin	MASS MOMENT OF INERTIA	COMMENTS	A1	A2
09 Mar 88	ACR087-8-6	.250in	.188in	15	7	30					
09 Mar 88	ACR087-8-5mm	.250in	5.00mm	15	7	30					
	ACR087-8-7	.250in	.219in	15	7	30					
09 Mar 88	ACR087-8-6mm	.250in	6.00mm	15	7	30					
	ACR087-8-6.15mm	.250in	6.15mm	15	7	30					
09 Mar 88	ACR087-8-8	.250in	.250in	15	7	30					
26 Jul 11	ACR087-6.36mm-6.01mm	6.36mm	6.01mm	15	7	30					
	ACR087-6.67mm-6.67mm	6.67mm	6.67mm	14	7	29					
23 Jun 88	ACR087-6.87mm-5	6.87mm	.157in	14	7	29					
23 Jun 88	ACR087-6.87mm-8	6.87mm	.250in	14	7	29					
23 Jun 88	ACR087-7mm-6	7.00mm	.188in	14	7	29					
23 Jun 88	ACR087-7mm-8	7.00mm	.250in	14	7	29					
24 Jan 07	ACR087-9-4mm	.282in	4.00mm	14	7	28					
23 Jun 88	ACR087-7.53mm-5	7.53mm	.157in	14	7	28			Clearance Diam.:	.895in	
23 Jun 88	ACR087-7.53mm-8	7.53mm	.250in	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-10-4	.313in	.125in	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-10-5	.313in	.157in	14	7	28			Clearance Diam.:	.895in	
13 Jan 06	ACR087-10-4.5mm	.313in	4.50mm	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-10-6	.313in	.188in	14	7	28			Clearance Diam.:	.895in	
	ACR087-10-5mm	.313in	5.00mm	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-10-6mm	.313in	6.00mm	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-10-8	.313in	.250in	14	7	28			Clearance Diam.:	.895in	
23 Jun 88	ACR087-10-9	.313in	.282in	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-10-10	.313in	.313in	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-8mm-4M	8.00mm	.120in	14	7	28			Clearance Diam.:	.895in	
23 Jun 88	ACR087-8mm-4	8.00mm	.125in	14	7	28			Clearance Diam.:	.895in	
	ACR087-8mm-5	8.00mm	.157in	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-8mm-6	8.00mm	.188in	14	7	28			Clearance Diam.:	.895in	
	ACR087-8mm-5mm	8.00mm	5.00mm	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-8mm-6mm	8.00mm	6.00mm	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-8mm-8	8.00mm	.250in	14	7	28			Clearance Diam.:	.895in	

* NOTE: Bores greater than .315in Dia: bore depth is .310in

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HELICAL PRODUCTS CO.
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PHONE (805) 928-3851 FSCI3201

TITLE HELICAL FLEXIBLE SHAFT COUPLING

TABULATED BORE SIZES

DWG NO ACR087

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ADDITION DATE	PART NUMBER	BORE TOLERANCES +.002in -.000in or +.05mm -.00mm A1 Dia	A2 Dia	TORQUES (lbin) Non-reversing	Shock or Reversing	Momentary	TORSIONAL FLEXIBILITY deg/lbin	MASS MOMENT OF INERTIA	COMMENTS	A1	A2
09 Mar 88	ACR087-8mm-8mm	8.00mm	8.00mm	14	7	28			Clearance Diam.:	.895in	
15 Jan 03	ACR087-8.75mm-5mm	* 8.75mm	5.00mm	14	7	28			Clearance Diam.:	.895in	
09 Mar 88	ACR087-12-8	* .375in	.250in	14	7	28			Clearance Diam.:	1.025in	
	ACR087-12-10	* .375in	.313in	14	7	28			Clearance Diam.:	1.025in	
24 Feb 05	ACR087-12-8mm	* .375in	8.00mm	14	7	28			Clearance Diam.:	1.025in	
12 Sep 01	ACR087-12-9mm	* .375in	* 9.00mm	14	7	28			Clearance Diam.:	1.025in	
09 Mar 88	ACR087-12-12	* .375in	* .375in	14	7	28			Clearance Diam.:	1.025in	
23 Jun 88	ACR087-10mm-8	*10.00mm	.250in	14	7	28			Clearance Diam.:	1.025in	
31 Oct 90	ACR087-10mm-10	*10.00mm	.313in	14	7	28			Clearance Diam.:	1.025in	
23 Jun 88	ACR087-14-8	* .438in	.250in	14	7	28			Clearance Diam.:	1.025in	
09 Oct 13	ACR087-7mm-4	7.00mm	.125in	14	7	29					
15 Jan 18	ACR087-8mm-4mm	8.00mm	4.00mm	14	7	28					
24 Apr 18	ACR087-6mm-6mm	6.00mm	6.00mm	15	7	30					
23 OCT 19	ACR087-9mm-6	*9.00mm	.188in	14	7	28			CLEARANCE DIAM.:	1.025in	

* NOTE: Bores greater than .315in Dia: bore depth is .310in

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