NOTES: See Tabulated Sheet

1. Straight thru bore. Shafts must not enter flexure area during operation.* Maximum shaft penetrations: .170in Minimum shaft end to shaft end: .223in

   *A2 shaft may enter flexure area if smaller than opposing bore: data available.

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

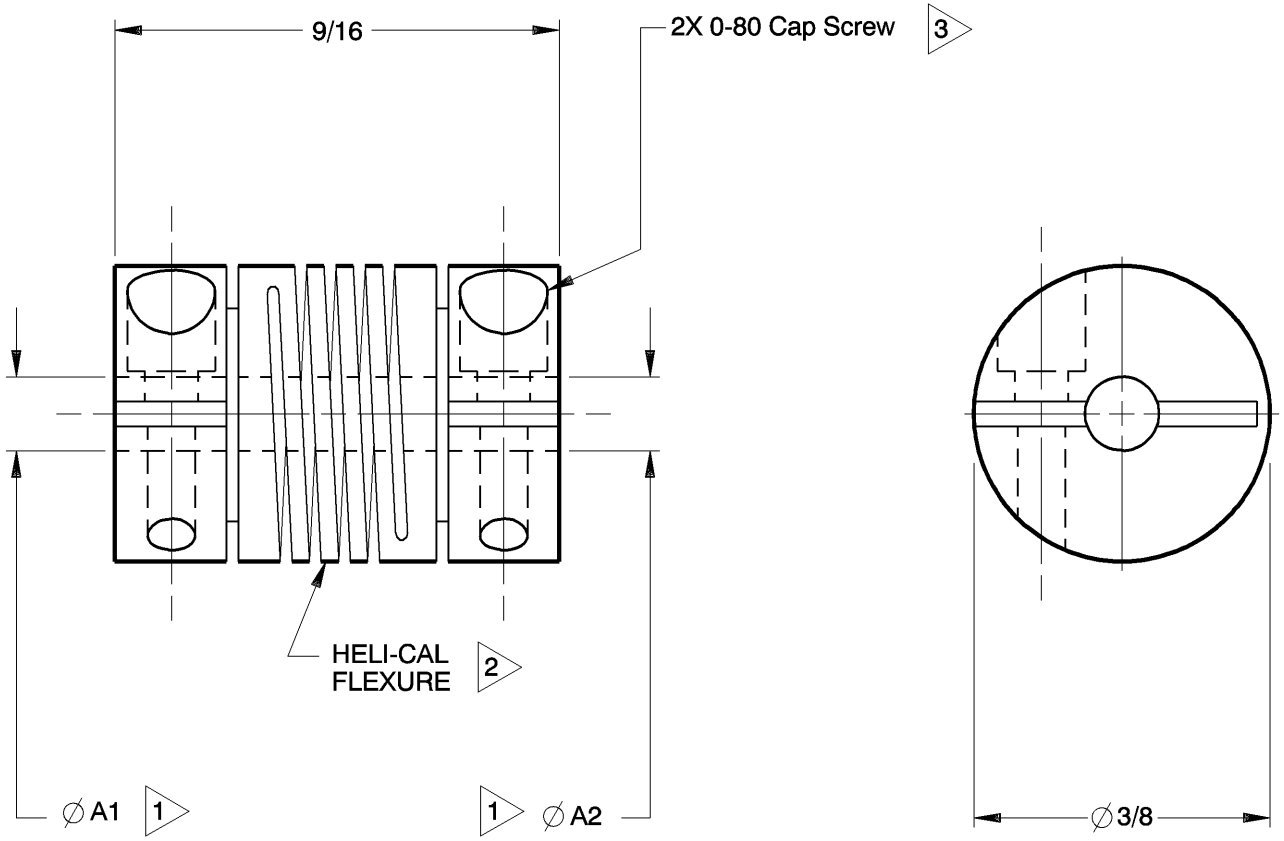
6. RPM: Up to 10,000, depending upon application.

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 .421in Clearance Diameter on both ends when any bore is over .094in thru .145in.



AC037-3-3 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
12-22-98	---	Clerical format update/ No revision BJM	MC

Unless otherwise noted dimensions in inches.

Tolerances are:
Fractions: ±1/64
Decimals: .XX ±.010
.XXX ±.005
.XXXX ±.0010
Angles: ± 2 degrees
Break sharp corners .010 max.

APPROVALS	DATE
DRAWN MM	1-22-79
CHECKED MC	1-22-79
PRODN APA	1-22-79
ISSUED	
WEIGHT 2g (calc)	
SCALE 4/1	SIZE A

HELICAL PRODUCTS CO., INC.
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	AC037

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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
	AC037-3M-3M	.090in	.090in	1.5	.75	3.0					
	AC037-4-3M	* .125in	.090in	1.5	.75	3.0			Clearance Diam.:	.421in	
02 Nov 10	AC037-3mm-1.5mm	* 3.00mm	1.50mm	1.5	.75	3.0			Clearance Diam.:	.421in	
09 Mar 88	AC037-4-4	* .125in	* .125in	1.5	.75	3.0			Clearance Diam.:	.421in	
09 Mar 88	AC037-4M-4M	* .120in	* .120in	1.5	.75	3.0			Clearance Diam.:	.421in	
09 Mar 88	AC037-2.5mm-2.5mm	* 2.50mm	* 2.50mm	1.5	.75	3.0			Clearance Diam.:	.421in	
09 Mar 88	AC037-2-2	.063in	.063in	1.5	.75	3.0					
09 Mar 88	AC037-1.5mm-1.5mm	1.50mm	1.50mm	1.5	.75	3.0					
09 Mar 88	AC037-2.03mm-2	2.03mm	.063in	1.5	.75	3.0					
09 Mar 88	AC037-2mm-2mm	2.00mm	2.00mm	1.5	.75	3.0					
05 May 88	AC037-4-2mm	* .125in	2.00mm	1.5	.75	3.0			Clearance Diam.:	.421in	
14 May 90	AC037-3mm-3mm	* 3.00mm	* 3.00mm	1.5	.75	3.0			Clearance Diam.:	.421in	
05 May 88	AC037-4-3	* .125in	.094in	1.5	.75	3.0			Clearance Diam.:	.421in	
14 May 90	AC037-3mm-2mm	* 3.00mm	2.00mm	1.5	.75	3.0			Clearance Diam.:	.421in	
06 Sep 90	AC037-4M-3M	* .120in	.090in	1.5	.75	3.0			Clearance Diam.:	.421in	
04 Dec 90	AC037-4-3mm	* .125in	* 3.00mm	1.5	.75	3.0			Clearance Diam.:	.421in	
	AC037-3.5mm-2mm	* 3.50mm	2.00mm	1.5	.75	3.0			Clearance Diam.:	.421in	
	AC037-3mm-3	* 3.00mm	.094in	1.5	.75	3.0			Clearance Diam.:	.421in	
	AC037-3-2mm	.094in	2.00mm	1.5	.75	3.0					
02 Dec 02	AC037-3.56mm-1.5mm	* 3.56mm	1.50mm	1.5	.75	3.0			Clearance Diam.:	.421in	
11 Nov 08	AC037-3-3	.094in	.094in	1.5	.75	3.0					

* NOTE: Bores greater than .094in Dia: bore depth is .148in

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS	DATE
DRAWN	
CHECKED	
PRODN	
ISSUED	11/4/2010 9:42:52 AM

HELICAL PRODUCTS CO. INC
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 AC037

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