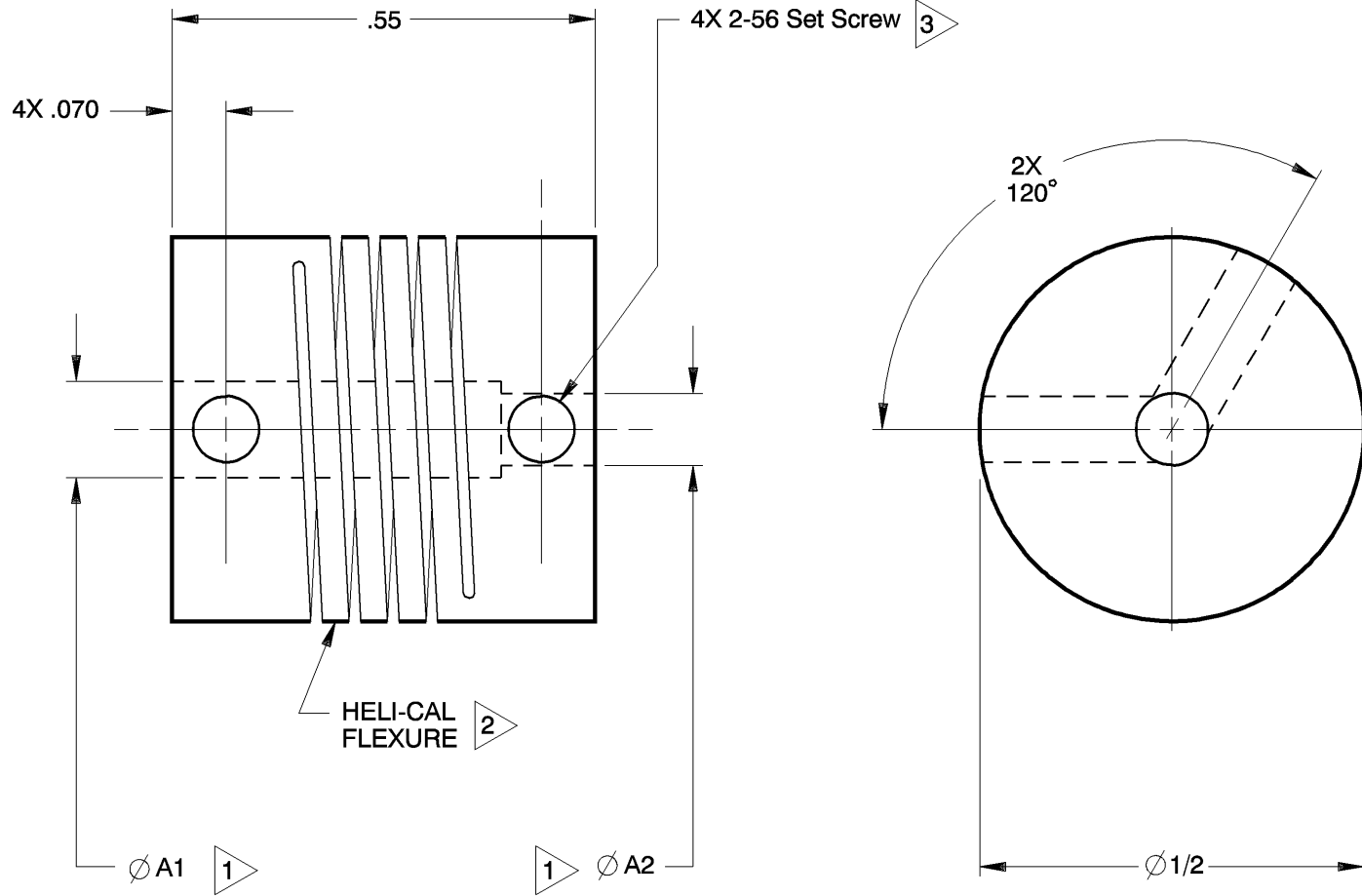


NOTES: See Tabulated Sheet

- 1 Straight thru bore. Shafts must not enter flexure area during operation.* Maximum shaft penetrations: .150in. Minimum shaft end to shaft end: .250in. *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 Set Screw attachment, hex. socket, cup point set screw furnished: both hubs. Set Screw size based on bore size: .078in thru .093in : 1-72 .094in thru .315in : 2-56
- 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.)



AE050-4-3 SHOWN

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DO NOT SCALE DRAWING.

12-18-09	---	Finish was Chromic Acid Anodize; Updated GD&T	HG	JAJ
10-7-98		Clerical format update/ No revision	BJM	MC
DATE	LTR	REVISION	CHK	

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	9-20-79
CHECKED MC	9-20-79
PRODN APA	9-20-79
ISSUED	
WEIGHT	4g (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	AE050

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (lbin)			TORSIONAL FLEXIBILITY deg/lbin	MASS MOMENT OF INERTIA	COMMENTS	A1	A2
		+.002in -.000in	or +.05mm -.00mm	Non-reversing	Shock or Reversing	Momentary					
09 Mar 88	AE050-3-3	.094in	.094in	4.0	2.0	8.0					
11 Jul 00	AE050-3mm-2mm	3.00mm	2.00mm	3.0	1.5	6.0					
09 Mar 88	AE050-4M-2mm	.120in	2.00mm	3.0	1.5	6.0					
09 Mar 88	AE050-4M-4M	.120in	.120in	3.0	1.5	6.0					
09 Mar 88	AE050-4-2mm	.125in	2.00mm	3.0	1.5	6.0					
09 Mar 88	AE050-4-3	.125in	.094in	3.0	1.5	6.0					
	AE050-4-3mm	.125in	3.00mm	3.0	1.5	6.0					
09 Mar 88	AE050-4-4	.125in	.125in	3.0	1.5	6.0					
09 Mar 88	AE050-3.5mm-3	* 3.50mm	.094in	3.0	1.5	6.0					
08 Dec 00	AE050-5-3	* .157in	.094in	3.0	1.5	6.0					
09 Mar 88	AE050-5-3mm	* .157in	3.00mm	3.0	1.5	6.0					
09 Mar 88	AE050-5-4	* .157in	.125in	3.0	1.5	6.0					
09 Mar 88	AE050-5-5	* .157in	* .157in	3.0	1.5	6.0					
27 Aug 01	AE050-6-2.5mm	* .188in	2.50mm	3.0	1.5	6.0					
09 Mar 88	AE050-6-4M	* .188in	.120in	3.0	1.5	6.0					
31 Jan 89	AE050-6-3.1mm	* .188in	3.10mm	3.0	1.5	6.0					
09 Mar 88	AE050-6-4	* .188in	.125in	3.0	1.5	6.0					
09 Mar 88	AE050-6-6	* .188in	* .188in	3.0	1.5	6.0					
24 Jun 88	AE050-5mm-3mm	* 5.00mm	3.00mm	3.0	1.5	6.0					
	AE050-5mm-4mm	* 5.00mm	* 4.00mm	3.0	1.5	6.0					
09 Mar 88	AE050-5mm-5mm	* 5.00mm	* 5.00mm	3.0	1.5	6.0					
18 Sep 90	AE050-6mm-5	* 6.00mm	* .157in	3.0	1.5	6.0					
24 Jun 88	AE050-6mm-4mm	* 6.00mm	* 4.00mm	3.0	1.5	6.0					
24 Jun 88	AE050-6mm-6mm	* 6.00mm	* 6.00mm	3.0	1.5	6.0					
09 Mar 88	AE050-8-3	* .250in	.094in	3.0	1.5	6.0					
26 Feb 90	AE050-8-3mm	* .250in	3.00mm	3.0	1.5	6.0					
24 Oct 89	AE050-8-4M	* .250in	.120in	3.0	1.5	6.0					
09 Mar 88	AE050-8-4	* .250in	.125in	3.0	1.5	6.0					
26 Oct 88	AE050-8-5	* .250in	* .157in	3.0	1.5	6.0					
09 Mar 88	AE050-8-6	* .250in	* .188in	3.0	1.5	6.0					
24 Jun 88	AE050-8-5mm	* .250in	* 5.00mm	3.0	1.5	6.0					

* NOTE: Bores greater than .125in Dia: bore depth is .125in

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS

DATE

DRAWN

CHECKED

PRODN

ISSUED

12/10/2009
10:48:12 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

AE050

Printed 12/10/2009 10:49:29 AM by larryvg

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (lbin)			TORSIONAL FLEXIBILITY deg/lbin	MASS MOMENT OF INERTIA	COMMENTS	A1	A2	
		+.002in -.000in	or	+.05mm -.00mm	Non-reversing	Shock or Reversing						Momentary
09 Mar 88	AE050-8-6mm	* .250in	*	6.00mm	3.0	1.5	6.0					
22 Aug 90	AE050-8-8	* .250in	*	.250in	3.0	1.5	6.0					
01 May 90	AE050-10-4M	* .313in	*	.120in	3.0	1.5	6.0					
	AE050-10-6	* .313in	*	.188in	3.0	1.5	6.0					
	AE050-8mm-6	* 8.00mm	*	.188in	3.0	1.5	6.0					

*** NOTE: Bores greater than .125in Dia: bore depth is .125in**

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ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST

APPROVALS	DATE
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PRDND	
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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 **AE050**

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