

NOTES: See Tabulated Sheet

1 Straight thru bore. Shafts must not enter flexure area during operation.\*  
 Maximum shaft penetration: .450in.  
 Minimum shaft end to shaft end: .600in.  
 \*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, ISO std., cap screw furnished: both hubs.

4 Backlash: None. No lubrication required.

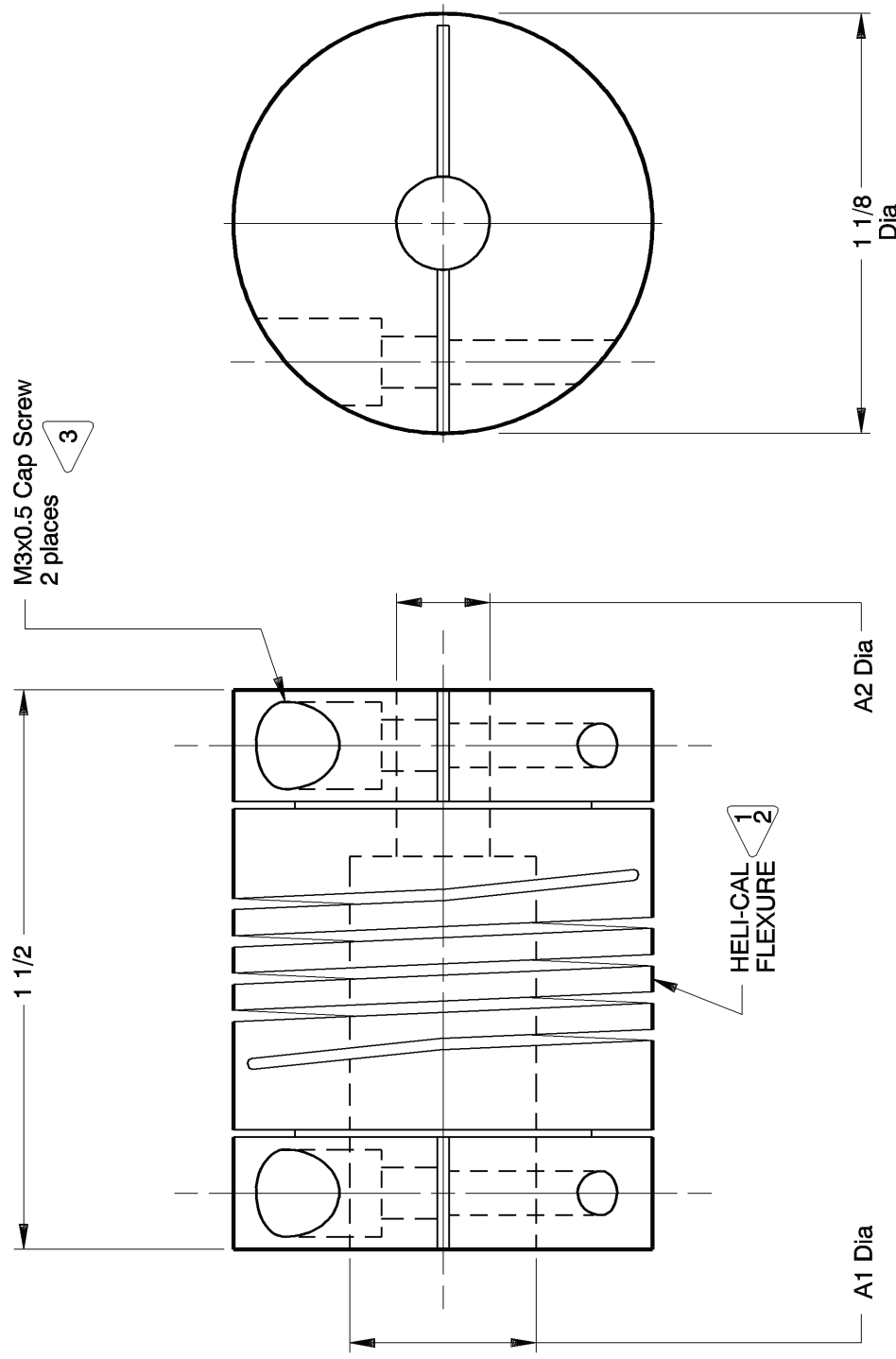
5 Permitted axial motion from free length: ±.010in.

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 1.257in. Clearance Diameter on both ends when any bore is over .567in. thru .709in.



HCM112-16-8 SHOWN

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DO NOT SCALE DRAWING.		UNLESS OTHERWISE NOTED DIMENSIONS IN INCHES. Inch Fractions: ± 1/64 Decimals: .XX ±.00 .XXX ±.005 .XXXX ±.0010 Metric Decimals: X ± 0.5mm X.X ± 0.25mm X.XX ± 0.15mm		TITLE HELICAL FLEXIBLE SHAFT COUPLING		MATERIAL 17-4PH CRES		FINISH Natural	
Clerical format update/ No revision		BJM MC		WEIGHT 159g (calc)		HT		DWG NO HCM112	
DATE 2-25-99		LTR REVISION		SCALE 2/1		SIZE A		DWG NO HCM112	

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (lbin)			TORSIONAL FLEXIBILITY	MASS MOMENT OF INERTIA	COMMENTS
		A1 Dia	A2 Dia	Non-reversing	Shock or Reversing	Momentary			
		+0.002in -0.000in	+0.05mm -0.00mm						
21 May 02	HCM112-8mm-8mm	8.00mm	8.00mm	40	20	80			
	HCM112-10mm-10mm	10.00mm	10.00mm	34	17	68			
	HCM112-11mm-11mm	11.00mm	11.00mm	34	17	68			

**\* NOTE: Bore greater than .512in Dia: bore depth is .450in**

APPROVALS: DRAWN \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 PRODN \_\_\_\_\_  
 ISSUED \_\_\_\_\_

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: **HCM112**

**ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST**

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES (lbin)			TORSIONAL FLEXIBILITY	MASS MOMENT OF INERTIA	COMMENTS
		+002in -000in	+05mm -00mm	Non-reversing	Shock or Reversing	Momentary			
23 Mar 11	HCM112-12mm-12	12.00mm	.375in	31	16	63			
06 Nov 00	HCM112-12mm-10mm	12.00mm	10.00mm	31	16	63			
	HCM112-12mm-12mm	12.00mm	12.00mm	31	16	63			
01 Nov 00	HCM112-16-8	.500in	.250in	29	15	59			
20 May 88	HCM112-16-10	.500in	.313in	29	15	59			
01 Nov 00	HCM112-16-12	.500in	.375in	29	15	59			
	HCM112-16-12mm	.500in	12.00mm	29	15	59			
09 Mar 88	HCM112-16-16	.500in	.500in	29	15	59			
11 Jun 04	HCM112-14mm-5mm	*14.00mm	5.00mm	29	15	59			
22 Nov 06	HCM112-14mm-6mm	*14.00mm	6.00mm	29	15	59			
29 Jan 08	HCM112-14mm-8	*14.00mm	.250in	29	15	59			
30 Nov 89	HCM112-14mm-8mm	*14.00mm	8.00mm	29	15	59			
	HCM112-14mm-10mm	*14.00mm	10.00mm	29	15	59			
	HCM112-14mm-14mm	*14.00mm	*14.00mm	29	15	59			
23 Jul 02	HCM112-15mm-12	*15.00mm	.375in	29	15	59			Clearance Diam.: 1.257in
	HCM112-15mm-15mm	*15.00mm	*15.00mm	29	15	59			Clearance Diam.: 1.257in
21 Jul 11	HCM112-16mm-8	*16.00mm	.250in	29	15	59			Clearance Diam.: 1.257in
23 Jul 01	HCM112-16mm-8mm	*16.00mm	8.00mm	29	15	59			Clearance Diam.: 1.257in
07 Mar 07	HCM112-16mm-10mm	*16.00mm	10.00mm	29	15	59			Clearance Diam.: 1.257in
	HCM112-16mm-12mm	*16.00mm	12.00mm	29	15	59			Clearance Diam.: 1.257in
	HCM112-16mm-14mm	*16.00mm	*14.00mm	29	15	59			Clearance Diam.: 1.257in
	HCM112-16mm-16mm	*16.00mm	*16.00mm	29	15	59			Clearance Diam.: 1.257in
10 Sep 04	HCM112-17mm-10mm	*17.00mm	10.00mm	29	15	59			Clearance Diam.: 1.257in
10 Sep 04	HCM112-17mm-12.5mm	*17.00mm	12.50mm	29	15	59			Clearance Diam.: 1.257in
10 Sep 04	HCM112-17mm-16mm	*17.00mm	*16.00mm	29	15	59			Clearance Diam.: 1.257in
16 OCT 14	HCM112-14mm-7mm	*14.00mm	7.00mm	29	15	59			Clearance Diam.: 1.257in

APPROVALS		DATE	HELICAL PRODUCTS CO. INC
DRAWN			P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A
CHECKED			PHONE (805) 928-3851/FSCI3201
PRODN			TITLE HELICAL FLEXIBLE SHAFT COUPLING
ISSUED		7/21/2011 2: 47: 38 PM	TABULATED BORE SIZES
			DWG NO HCM112

**\* NOTE: Bores greater than .512in Dia: bore depth is .450in**

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**ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST**