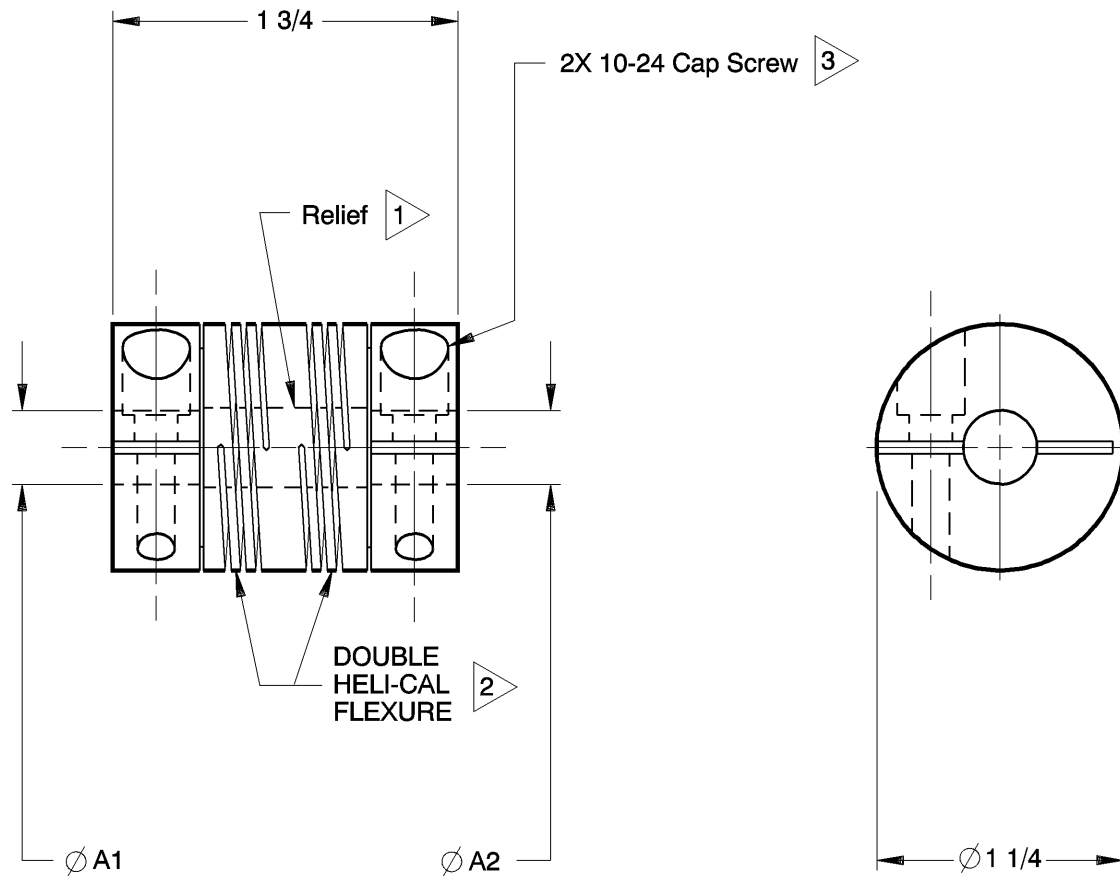


NOTES: See Tabulated Sheet

- 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:  $\pm .008$ in.
- 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 3 degrees.  
Offset, up to .010in.  
(TIR, .020in.)
- 9 Part will have a 1.428in. Clearance Diameter on both ends when any bore is over .447in. thru .630in. or a 1.465in. Clearance Diameter when any bore is over .630in. thru .669in.



DSAC125-12-12 SHOWN

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DO NOT SCALE DRAWING.

01-25-10	---	Finish was Chromic Acid Anodize; Updated GD&T	HG	JAJ	Unless otherwise noted dimensions in inches. Inch Fractions: $\pm 1/64$ Decimals: .XX $\pm .010$ .XXX $\pm .005$ .XXXX $\pm .0010$ Metric Decimals: X $\pm 0.5$ mm X.X $\pm 0.25$ mm X.XX $\pm 0.15$ mm Angles: $\pm 2$ degrees Break sharp corners .010 max.	APPROVALS	DATE	<b>HELICAL PRODUCTS CO., INC.</b> P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSC13201
						DRAWN	BJM 6-29-89	
						CHECKED	MC 7-6-89	
						PRODN	DH 7-11-89	
ISSUED		TITLE	HELICAL FLEXIBLE SHAFT COUPLING					
WEIGHT	83g (calc)	MATERIAL	7075-T6 Aluminum Alloy					
SCALE	1/1	FINISH	Anodize per HPS1000					
DATE	LTR	REVISION	CHK	DWG NO	DSAC125	SIZE	A	

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
08 Nov 89	DSAC125-10-6	.313in		.188in	30	15	61	.062				
	DSAC125-10-8	.313in		.250in	30	15	61	.062				
	DSAC125-10-10	.313in		.313in	30	15	61	.062				
07 Dec 01	DSAC125-12-6	.375in		.188in	29	14	58	.08				
19 Jun 02	DSAC125-12-5mm	.375in		5.00mm	29	15	58	.08				
	DSAC125-12-6mm	.375in		6.00mm	29	14	58	.08				
04 May 90	DSAC125-12-8	.375in		.250in	29	14	58	.08				
23 Mar 04	DSAC125-12-7mm	.375in		7.00mm	29	14	58	.08				
	DSAC125-12-10	.375in		.313in	29	14	58	.08				
	DSAC125-12-8mm	.375in		8.00mm	29	14	58	.08				
04 Dec 89	DSAC125-12-12	.375in		.375in	29	14	58	.08				
21 Dec 07	DSAC125-12-10mm	.375in		10.00mm	29	14	58	.08				
	DSAC125-10mm-8	10.00mm		.250in	29	14	58	.08				
	DSAC125-10mm-12	10.00mm		.375in	29	14	58	.08				
	DSAC125-13-12	.407in		.375in	27	14	55	.09				
	DSAC125-11mm-8	11.00mm		.250in	26	13	53	.1				
	DSAC125-11mm-13	11.00mm		.407in	26	13	53	.1				

\* NOTE: Bores greater than .630in Dia: bore depth is .450in

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**ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST**

APPROVALS	DATE
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HELICAL PRODUCTS CO. INC  
P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A  
PHONE (805) 928-3851 FSCI320I

TITLE **HELICAL FLEXIBLE SHAFT COUPLING**

**TABULATED BORE SIZES**

DWG NO **DSAC125**

Printed 1/18/2012 10:12:08 AM by larryg

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					
01 May 06	DSAC125-14-8	.438in	.250in	26	13	53	.109				
07 Dec 04	DSAC125-14-10	.438in	.313in	26	13	53	.109				
04 Aug 08	DSAC125-14-12	.438in	.375in	26	13	53	.109				
17 Apr 02	DSAC125-12mm-8	12.00mm	.250in	25	12	50	.11	Clearance Diam.:	1.428in		
	DSAC125-12mm-10	12.00mm	.313in	25	12	50	.11	Clearance Diam.:	1.428in		
	DSAC125-12mm-12	12.00mm	.375in	25	12	50	.11	Clearance Diam.:	1.428in		
18 Jan 12	DSAC125-12mm-11mm	12.00mm	11.00mm	25	12	50	.11	Clearance Diam.:	1.428in		
21 Nov 03	DSAC125-12mm-12mm	12.00mm	12.00mm	25	13	50	.11	Clearance Diam.:	1.428in		
	DSAC125-16-6	.500in	.188in	23	12	47	.12	Clearance Diam.:	1.428in		
	DSAC125-16-5mm	.500in	5.00mm	23	12	47	.12	Clearance Diam.:	1.428in		
16 Jan 02	DSAC125-16-6mm	.500in	6.00mm	23	12	47	.12	Clearance Diam.:	1.428in		
	DSAC125-16-8	.500in	.250in	23	12	47	.12	Clearance Diam.:	1.428in		
08 Nov 89	DSAC125-16-10	.500in	.313in	23	12	47	.12	Clearance Diam.:	1.428in		
	DSAC125-16-8mm	.500in	8.00mm	23	12	47	.12	Clearance Diam.:	1.428in		
31 Aug 00	DSAC125-16-9mm	.500in	9.00mm	23	12	47	.12	Clearance Diam.:	1.428in		
26 Jan 90	DSAC125-16-12	.500in	.375in	23	12	47	.12	Clearance Diam.:	1.428in		
	DSAC125-16-10mm	.500in	10.00mm	23	12	47	.12	Clearance Diam.:	1.428in		
	DSAC125-16-11mm	.500in	11.00mm	23	12	47	.12	Clearance Diam.:	1.428in		
27 Sep 01	DSAC125-16-14	.500in	.438in	23	12	47	.12	Clearance Diam.:	1.428in		
	DSAC125-16-11.43mm	.500in	11.43mm	23	12	47	.12	Clearance Diam.:	1.428in		
	DSAC125-16-12mm	.500in	12.00mm	23	12	47	.12	Clearance Diam.:	1.428in		
08 Nov 89	DSAC125-16-16	.500in	.500in	23	12	47	.12	Clearance Diam.:	1.428in		
05 Apr 02	DSAC125-13mm-8	13.00mm	.250in	23	12	46	.12	Clearance Diam.:	1.428in		
	DSAC125-14mm-8	14.00mm	.250in	22	11	44	.12	Clearance Diam.:	1.428in		
	DSAC125-14mm-10	14.00mm	.313in	22	11	44	.12	Clearance Diam.:	1.428in		
10 Sep 01	DSAC125-14mm-12	14.00mm	.375in	22	11	44	.12	Clearance Diam.:	1.428in		
02 Mar 90	DSAC125-14mm-10mm	14.00mm	10.00mm	22	11	44	.12	Clearance Diam.:	1.428in		
	DSAC125-18-12	.563in	.375in	20	10	41	.12	Clearance Diam.:	1.428in		
12 Oct 90	DSAC125-15mm-8	15.00mm	.250in	19	9	38	.19	Clearance Diam.:	1.428in		
	DSAC125-15mm-10	15.00mm	.313in	19	9	38	.19	Clearance Diam.:	1.428in		
	DSAC125-15mm-12	15.00mm	.375in	19	9	38	.19	Clearance Diam.:	1.428in		

\* NOTE: Bores greater than .630in Dia: bore depth is .450in

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

TITLE **HELICAL FLEXIBLE SHAFT COUPLING**

**TABULATED BORE SIZES**

DWG NO **DSAC125**

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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							
												A1 Dia	A2 Dia
06 Nov 90	DSAC125-20-6	.625in	.188in	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-20-5.95mm	.625in	5.95mm	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-20-6mm	.625in	6.00mm	17	9	35	.19					Clearance Diam.:	1.428in
08 Nov 89	DSAC125-20-8	.625in	.250in	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-20-7mm	.625in	7.00mm	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-20-10	.625in	.313in	17	9	35	.19					Clearance Diam.:	1.428in
26 Jan 90	DSAC125-20-8mm	.625in	8.00mm	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-20-9mm	.625in	9.00mm	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-20-12	.625in	.375in	17	9	35	.19					Clearance Diam.:	1.428in
03 May 90	DSAC125-20-10mm	.625in	10.00mm	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-20-14	.625in	.438in	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-20-12mm	.625in	12.00mm	17	9	35	.19					Clearance Diam.:	1.428in
26 Jan 90	DSAC125-20-16	.625in	.500in	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-20-17	.625in	.532in	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-20-14mm	.625in	14.00mm	17	9	35	.19					Clearance Diam.:	1.428in
16 Nov 90	DSAC125-20-18	.625in	.563in	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-20-20	.625in	.625in	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-15.93mm-12.75mm	15.93mm	12.75mm	17	9	35	.19					Clearance Diam.:	1.428in
12 Mar 02	DSAC125-16mm-6mm	16.00mm	6.00mm	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-16mm-10	16.00mm	.313in	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-16mm-8mm	16.00mm	8.00mm	17	9	35	.19					Clearance Diam.:	1.428in
22 Aug 06	DSAC125-16mm-12	16.00mm	.375in	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-16mm-11mm	16.00mm	11.00mm	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-16mm-12mm	16.00mm	12.00mm	17	9	35	.19					Clearance Diam.:	1.428in
03 Dec 04	DSAC125-16mm-16	16.00mm	.500in	17	9	35	.19	Clearance Diam.:	1.428in				
	DSAC125-16mm-20	16.00mm	.625in	17	9	35	.19					Clearance Diam.:	1.428in
	DSAC125-16mm-16mm	16.00mm	16.00mm	17	9	35	.19					Clearance Diam.:	1.428in
05 Apr 02	DSAC125-16mm-16mm	16.00mm	16.00mm	17	9	35	.19	Clearance Diam.:	1.428in				
03 May 07	DSAC125-16.98mm-12	*16.98mm	.375in	17	9	35	.19	Clearance Diam.:	1.428in				

\* NOTE: Bores greater than .630in Dia: bore depth is .450in

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

TITLE **HELICAL FLEXIBLE SHAFT COUPLING**

**TABULATED BORE SIZES**

DWG NO **DSAC125**

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