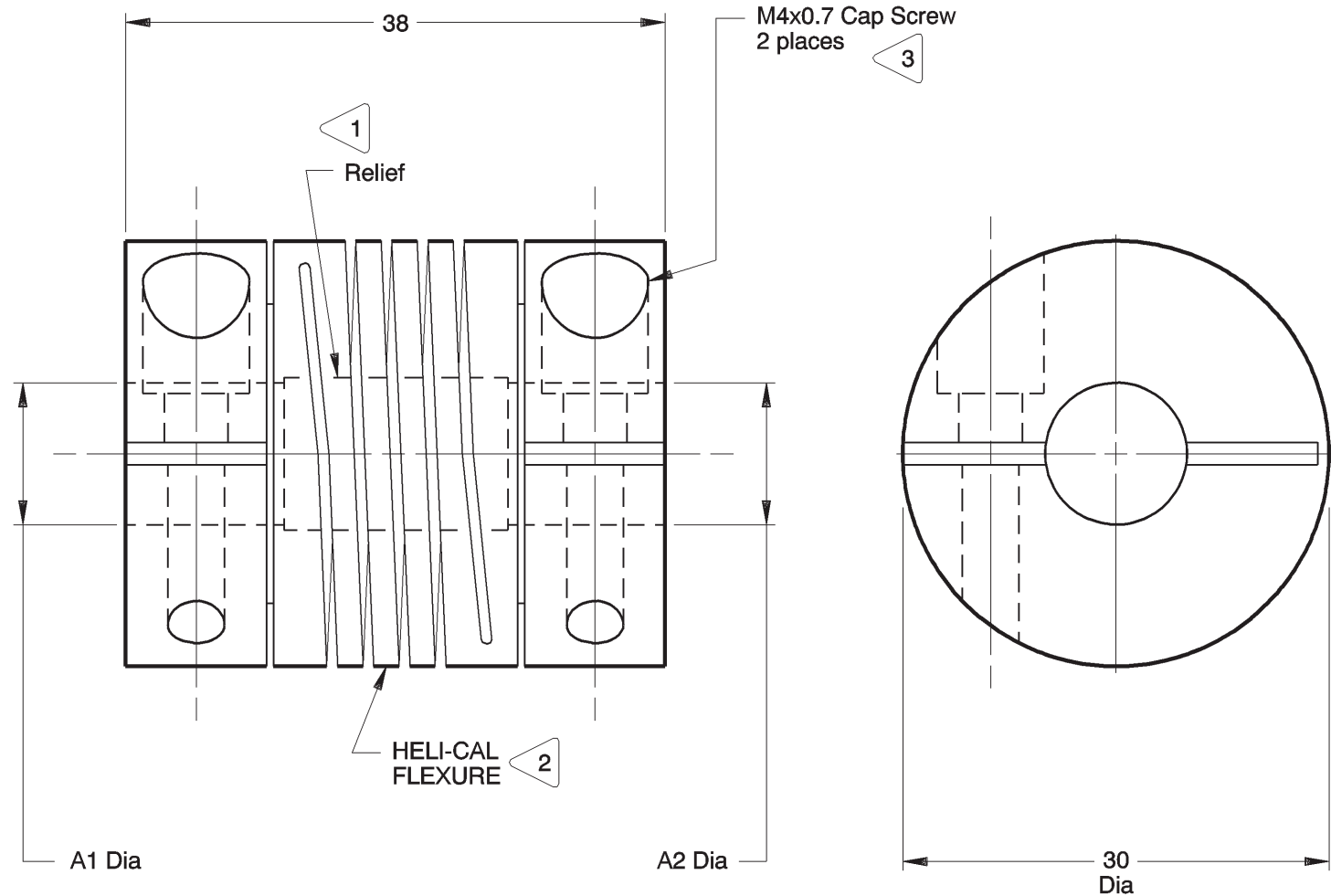


NOTES: See Tabulated Sheet

- 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, ISO std., cap screw furnished: both hubs.
- 4 Backlash: None. No lubrication required.
- 5 Permitted axial motion from free length:  $\pm .25\text{mm}$ .
- 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 .25mm.  
(TIR, .50mm.)
- 9 Part will have a 34.83mm Clearance Diameter on both ends when any bore is over 12.28mm thru 17.30mm.



W7C30-10mm-10mm SHOWN

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DO NOT SCALE DRAWING.

9-14-98		Clerical format update/ No revision	BJM	MC
DATE	LTR	REVISION	CHK	

Unless otherwise noted dimensions in millimeters.

Tolerances are:  
Decimals: X  $\pm .5\text{mm}$   
          X.X  $\pm .25\text{mm}$   
          X.XX  $\pm .15\text{mm}$   
Angles:  $\pm 2$  degrees  
Break sharp corners  
.25mm max.

APPROVALS	DATE
DRAWN MM	8-11-78
CHECKED GLB	8-11-78
PRODN APA	8-11-78
ISSUED	
WEIGHT 167g (calc)	
SCALE 2/1	SIZE A

<b>HELICAL PRODUCTS CO.</b>	
P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSC13201	
TITLE	HELICAL FLEXIBLE SHAFT COUPLING
MATERIAL	17-4PH CRES HT
FINISH	Natural
DWG NO	W7C30

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES ( Nm )			TORSIONAL FLEXIBILITY deg/Nm	MASS MOMENT OF INERTIA	COMMENTS	A1	A2
		+.002in -.000in	or +.05mm -.00mm	Non-reversing	Shock or Reversing	Momentary					
		A1 Dia	A2 Dia								
09 Mar 88	W7C30-6mm-6mm Superseded	6.00mm	6.00mm	.00	.00	.00					
09 Mar 88	W7C30-8-5mm Superseded	.250in	5.00mm	.00	.00	.00					
09 Mar 88	W7C30-8-8 Superseded	.250in	.250in	.00	.00	.00					
11 Jan 01	W7C30-8mm-9mm Superseded	8.00mm	9.00mm	.00	.00	.00					
	W7C30-9mm-8	9.00mm	.250in	4.8	2.4	9.5					
	W7C30-9mm-7.5mm	9.00mm	7.50mm	4.8	2.4	9.5					
09 Mar 88	W7C30-9mm-8mm	9.00mm	8.00mm	4.8	2.4	9.5					
09 Mar 88	W7C30-9mm-9mm	9.00mm	9.00mm	4.8	2.4	9.5					
14 Apr 08	W7C30-9mm-11mm	9.00mm	11.00mm	4.8	2.4	9.5					
17 Jun 10	W7C30-9.3mm-7mm	9.30mm	7.00mm	4.8	2.4	9.6					
13 Oct 08	W7C30-9.4mm-8mm	9.40mm	8.00mm	4.6	2.3	9.1					
	W7C30-9.5mm-5mm	9.50mm	5.00mm	4.6	2.3	9.2					
09 Mar 88	W7C30-9.5mm-9mm	9.50mm	9.00mm	4.6	2.3	9.2					
	W7C30-9.5mm-9.5mm	9.50mm	9.50mm	4.6	2.3	9.2					
09 Mar 88	W7C30-9.5mm-10mm	9.50mm	10.00mm	4.5	2.2	8.9					
09 Mar 88	W7C30-12-6mm	.375in	6.00mm	4.6	2.3	9.2					
	W7C30-12-10	.375in	.313in	4.6	2.3	9.2					
	W7C30-12-8mm	.375in	8.00mm	4.6	2.3	9.2					
	W7C30-12-11	.375in	.344in	4.6	2.3	9.2					
09 Mar 88	W7C30-12-9mm	.375in	9.00mm	4.6	2.3	9.2					
09 Mar 88	W7C30-12-12	.375in	.375in	4.6	2.3	9.2					
	W7C30-10mm-3mm	10.00mm	3.00mm	4.5	2.2	8.9					
	W7C30-10mm-4mm	10.00mm	4.00mm	4.5	2.2	8.9					
06 Apr 01	W7C30-10mm-5mm	10.00mm	5.00mm	4.5	2.2	8.9					
09 Mar 88	W7C30-10mm-6mm	10.00mm	6.00mm	4.5	2.2	8.9					
09 Mar 88	W7C30-10mm-8	10.00mm	.250in	4.5	2.2	8.9					

\* NOTE: Bores greater than 12.70mmDia: bore depth is 1.00mm

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**ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST**

APPROVALS	DATE	HELICAL PRODUCTS CO. P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSCI3201 <b>TITLE HELICAL FLEXIBLE SHAFT COUPLING</b> <b>TABULATED BORE SIZES</b> DWG NO W7C30
DRAWN		
CHECKED		
PRODN		
ISSUED	6/15/2012 9:54:54 AM	

Printed 6/15/2012 9:57:18 AM by larryvg

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES ( Nm )			TORSIONAL FLEXIBILITY deg/Nm	MASS MOMENT OF INERTIA	COMMENTS	A1	A2
		+.002in -.000in	or +.05mm -.00mm	Non-reversing	Shock or Reversing	Momentary					
09 Mar 88	W7C30-10mm-7mm	10.00mm	7.00mm	4.5	2.2	8.9					
09 Oct 00	W7C30-10mm-7.5mm	10.00mm	7.50mm	4.5	2.2	8.9					
02 May 88	W7C30-10mm-8mm	10.00mm	8.00mm	4.5	2.2	8.9					
31 Mar 11	W7C30-10mm-8.1mm	10.00mm	8.10mm	4.5	2.2	8.9					
09 Mar 88	W7C30-10mm-9mm	10.00mm	9.00mm	4.5	2.2	8.9					
09 Mar 88	W7C30-10mm-9.5mm	10.00mm	9.50mm	4.5	2.2	8.9					
09 Mar 88	W7C30-10mm-12	10.00mm	.375in	4.5	2.2	8.9					
09 Mar 88	W7C30-10mm-10mm	10.00mm	10.00mm	4.5	2.2	8.9					
	W7C30-11mm-6mm	11.00mm	6.00mm	4.2	2.1	8.3					
09 Mar 88	W7C30-11mm-8	11.00mm	.250in	4.2	2.1	8.3					
09 Mar 88	W7C30-11mm-8mm	11.00mm	8.00mm	4.2	2.1	8.3					
09 Mar 88	W7C30-11mm-9mm	11.00mm	9.00mm	4.2	2.1	8.3					
	W7C30-11mm-9.5mm	11.00mm	9.50mm	4.2	2.1	8.3					
02 May 88	W7C30-11mm-12	11.00mm	.375in	4.2	2.1	8.3					
09 Mar 88	W7C30-11mm-10mm	11.00mm	10.00mm	4.2	2.1	8.3					
09 Mar 88	W7C30-11mm-11mm	11.00mm	11.00mm	4.2	2.1	8.3					
02 May 88	W7C30-11.5mm-11.5mm	11.50mm	11.50mm	4.0	2.0	8.0					
	W7C30-11.6mm-11.6mm	11.60mm	11.60mm	4.0	2.0	8.0					
02 May 88	W7C30-12mm-3mm	12.00mm	3.00mm	3.9	1.9	7.7					
	W7C30-12mm-5mm	12.00mm	5.00mm	3.9	1.9	7.7					
09 Mar 88	W7C30-12mm-6mm	12.00mm	6.00mm	3.9	1.9	7.7					
02 May 88	W7C30-12mm-8	12.00mm	.250in	3.9	1.9	7.7					
27 Jun 06	W7C30-12mm-7mm	12.00mm	7.00mm	3.9	1.9	7.7					
	W7C30-12mm-10	12.00mm	.313in	3.9	1.9	7.7					
09 Mar 88	W7C30-12mm-8mm	12.00mm	8.00mm	3.9	1.9	7.7					
09 Mar 88	W7C30-12mm-9mm	12.00mm	9.00mm	3.9	1.9	7.7					
09 Mar 88	W7C30-12mm-9.5mm	12.00mm	9.50mm	3.9	1.9	7.7					
09 Mar 88	W7C30-12mm-12	12.00mm	.375in	3.9	1.9	7.7					
	W7C30-12mm-9.9mm	12.00mm	9.90mm	3.9	1.9	7.7					
09 Mar 88	W7C30-12mm-10mm	12.00mm	10.00mm	3.9	1.9	7.7					
09 Mar 88	W7C30-12mm-11mm	12.00mm	11.00mm	3.9	1.9	7.7					

\* NOTE: Bores greater than 12.70mm Dia: bore depth is 1.00mm

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**ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST**

APPROVALS	DATE	HELICAL PRODUCTS CO. P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSCI3201 <b>TITLE HELICAL FLEXIBLE SHAFT COUPLING</b> <b>TABULATED BORE SIZES</b> DWG NO W7C30
DRAWN		
CHECKED		
PRODN		
ISSUED	6/15/2012 9:54:54 AM	

Printed 6/15/2012 9:57:18 AM by Larryvg

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES ( Nm )			TORSIONAL FLEXIBILITY	MASS MOMENT OF INERTIA	COMMENTS	A1	A2	
		+.002in -.000in	or +.05mm -.00mm	Non-reversing	Shock or Reversing	Momentary						deg/Nm
09 Mar 88	W7C30-12mm-12mm	12.00mm	12.00mm	3.9	1.9	7.7						
15 Jun 12	W7C30-12mm-16mm	12.00mm	*16.00mm	3.9	1.9	7.7						
09 Mar 88	W7C30-16-8	.500in	.250in	3.7	1.8	7.3		Clearance Diam.:		34.83mm		
09 Mar 88	W7C30-16-8mm	.500in	8.00mm	3.7	1.8	7.3		Clearance Diam.:		34.83mm		
02 May 88	W7C30-16-12	.500in	.375in	3.7	1.8	7.3		Clearance Diam.:		34.83mm		
18 Oct 88	W7C30-16-10mm	.500in	10.00mm	3.7	1.8	7.3		Clearance Diam.:		34.83mm		
11 Nov 11	W7C30-16-14	.500in	.438in	3.7	1.8	7.3		Clearance Diam.:		34.83mm		
09 Feb 07	W7C30-16-11.27mm	.500in	11.27mm	3.7	1.8	7.3		Clearance Diam.:		34.83mm		
	W7C30-16-12mm	.500in	12.00mm	3.7	1.8	7.3		Clearance Diam.:		34.83mm		
09 Mar 88	W7C30-16-16	.500in	.500in	3.7	1.8	7.3		Clearance Diam.:		34.83mm		
01 Jul 04	W7C30-13mm-10mm	*13.00mm	10.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
02 May 88	W7C30-13mm-12mm	*13.00mm	12.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
08 Sep 00	W7C30-14mm-6mm	*14.00mm	6.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
	W7C30-14mm-8mm	*14.00mm	8.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
	W7C30-14mm-9mm	*14.00mm	9.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
	W7C30-14mm-12	*14.00mm	.375in	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
	W7C30-14mm-10mm	*14.00mm	10.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
	W7C30-14mm-11mm	*14.00mm	11.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
12 Oct 01	W7C30-14mm-14	*14.00mm	.438in	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
03 Nov 88	W7C30-14mm-12mm	*14.00mm	12.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
24 May 05	W7C30-14mm-13mm	*14.00mm	*13.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
27 Jul 88	W7C30-14mm-14mm	*14.00mm	*14.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
04 Apr 00	W7C30-15mm-6mm	*15.00mm	6.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
09 Oct 00	W7C30-15mm-7.5mm	*15.00mm	7.50mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
09 Mar 88	W7C30-15mm-8mm	*15.00mm	8.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
19 Sep 03	W7C30-15mm-9mm	*15.00mm	9.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
	W7C30-15mm-10mm	*15.00mm	10.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
02 Aug 00	W7C30-15mm-11mm	*15.00mm	11.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
	W7C30-15mm-12mm	*15.00mm	12.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
21 Apr 03	W7C30-15mm-16	*15.00mm	.500in	3.9	1.9	7.7		Clearance Diam.:		34.83mm		
18 Apr 05	W7C30-15mm-14mm	*15.00mm	*14.00mm	3.9	1.9	7.7		Clearance Diam.:		34.83mm		

\* NOTE: Bores greater than 12.70mm Dia: bore depth is 1.00mm

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**ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST**

APPROVALS	DATE	HELICAL PRODUCTS CO.	
DRAWN		P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSCI3201	
CHECKED		TITLE HELICAL FLEXIBLE SHAFT COUPLING	
PRODN		<b>TABULATED BORE SIZES</b>	
ISSUED	6/15/2012 9:54:54 AM	DWG NO	W7C30

Printed 6/15/2012 9:57:18 AM by Larryvg

ADDITION DATE	PART NUMBER	BORE TOLERANCES		TORQUES ( Nm )			TORSIONAL FLEXIBILITY deg/Nm	MASS MOMENT OF INERTIA	COMMENTS	A1		A2	
		+0.002in -0.000in	or +0.05mm -0.00mm	Non-reversing	Shock or Reversing	Momentary				A1	A2		
												A1 Dia	A2 Dia
09 Mar 88	W7C30-15mm-15mm	*15.00mm	*15.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
09 Mar 88	W7C30-20-9mm	*.625in	9.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
	W7C30-20-12	*.625in	.375in	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
	W7C30-20-10mm	*.625in	10.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
21 Jan 11	W7C30-16mm-5mm	*16.00mm	5.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
15 Jan 01	W7C30-16mm-6mm	*16.00mm	6.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
02 Aug 06	W7C30-16mm-8mm	*16.00mm	8.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
	W7C30-16mm-9mm	*16.00mm	9.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
	W7C30-16mm-10mm	*16.00mm	10.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
	W7C30-16mm-11mm	*16.00mm	11.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
	W7C30-16mm-12mm	*16.00mm	12.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
09 Mar 88	W7C30-16mm-14mm	*16.00mm	*14.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
02 May 88	W7C30-16mm-15mm	*16.00mm	*15.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
09 Mar 88	W7C30-16mm-16mm	*16.00mm	*16.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
	W7C30-17mm-6mm	*17.00mm	6.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
09 Mar 88	W7C30-17mm-15mm	*17.00mm	*15.00mm	3.9	1.9	7.7			Clearance Diam.:	34.83mm			
29 APR 14	W7C30-14mm-8	*14.00mm	.250in	3.9	1.9	7.7			Clearance Diameter:	34.83mm			
05 AUG 14	W7C30-13mm-11mm	*13.00mm	11.00mm	3.9	1.9	7.7			Clearance Diameter:	34.83mm			
25 NOV 14	W7C30-18-8mm	*.563in	8.00mm	3.9	1.9	7.7			Clearance Diameter:	34.83mm			
02 DEC 14	W7C30-12.5mm-11mm	12.50mm	11.00mm	3.9	1.9	7.7			Clearance Diameter:	34.83mm			
26 JUL 16	W7C30-14mm-4mm	14.00mm	4.00mm	3.9	1.9	7.7			Clearance Diameter:	34.83mm			

\* NOTE: Bores greater than 12.70mm Dia: bore depth is 1.00mm

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**ADDITIONAL BORE SIZES AVAILABLE UPON REQUEST**

APPROVALS	DATE	HELICAL PRODUCTS CO. P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A PHONE (805) 928-3851 FSCI3201 <b>HELICAL FLEXIBLE SHAFT COUPLING</b> <b>TABULATED BORE SIZES</b> DWG NO W7C30
DRAWN		
CHECKED		
PRODN		
ISSUED	6/15/2012 9:54:54 AM	