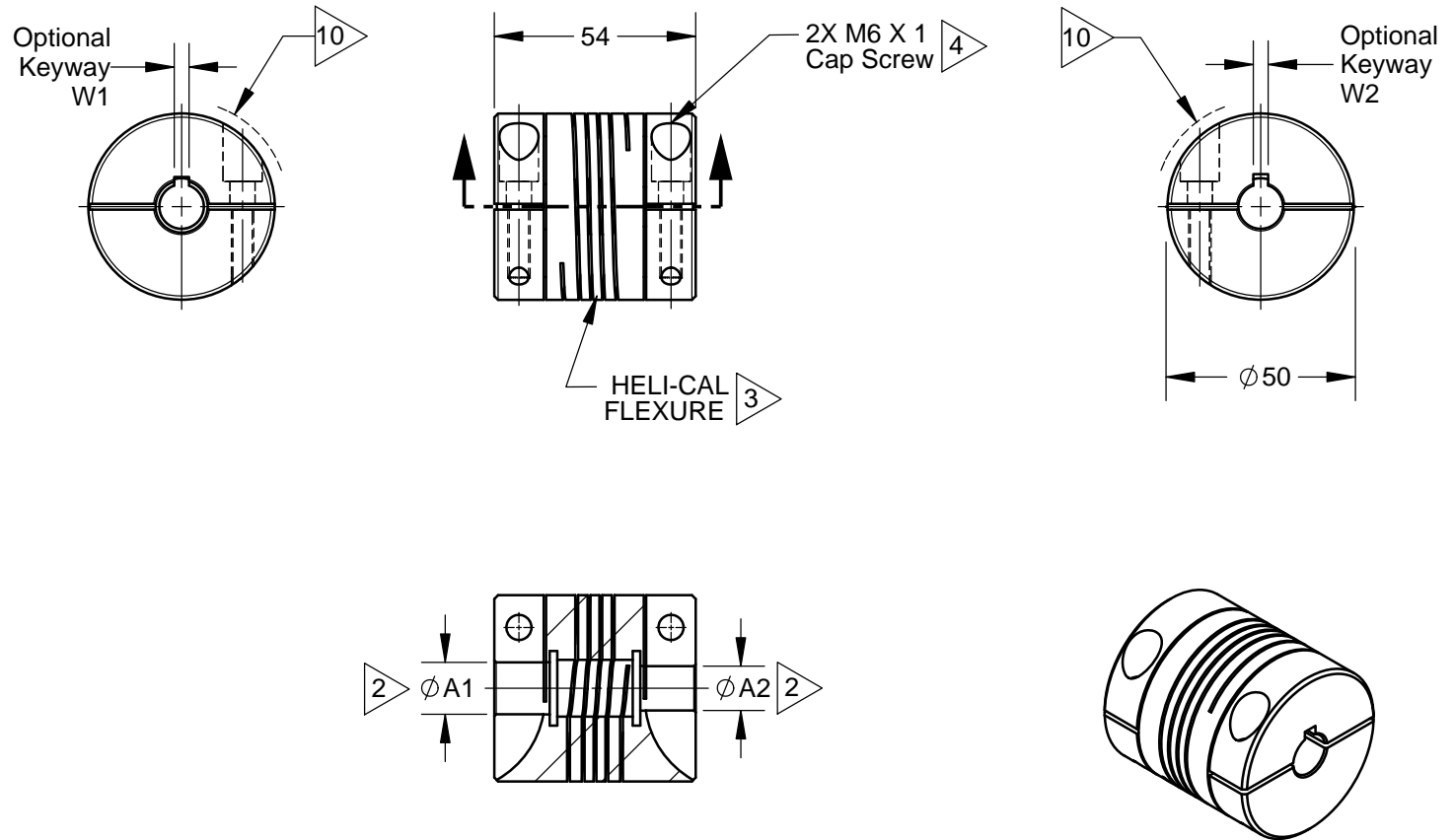


NOTES:

- 1 Refer to Secondary Sheet for Tabulated Data.
- 2 Relief permits  $\phi A1$  and  $\phi A2$  shafts to near butt except:  
  
When any Bore  $> \phi 20.00$  the component shaft MAX penetration is 16.89  
or  
when both Bores  $> \phi 20.00$  the component shaft MAX penetration is 16.89 & the MIN shaft end to shaft end is 20.22.
- 3 Hubs and HELI-CAL FLEXURE are made from a single piece of material.
- 4 Integral Clamp attachment, hex. socket, ISO std., cap screw furnished: both hubs.
- 5 Backlash: None. No lubrication required.
- 6 Permitted axial motion from free length:  $\pm 0.25$
- 7 RPM: Up to 10,000, depending upon application.
- 8 Working torque ratings are based upon continuous duty with noted misalignments applied separately and may be increased with improved alignment: Refer to Tabulated Data
- 9 Permissible shaft misalignment: Angular, up to  $5^\circ$   
Offset, up to 0.25 (FIM, 0.50)
- 10 Part will have a  $\phi 56.85$  clearance on both ends when any Bore  $> \phi 25.00$  thru  $\phi 32.11$ .
- 11 Weight based on W7C50-14mmQ4-12mmQ4



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11-25-14	---	ECR#14102000 Added calc. weight	DCE	EK
08-15-13	---	Redrawn in Solidworks	CL	EK
12-19-03	---	Clerical Correction	DRW	MC
DATE	LTR	REVISION	APVR	

Unless otherwise specified all tolerances and dimensions are in millimeters.

Inch	Metric
X/XX= $\pm 1/64$	X= $\pm 0.5\text{mm}$
.XX= $\pm .01$	X.X= $\pm 0.25\text{mm}$
.XXX= $\pm .005$	X.XX= $\pm 0.15\text{mm}$
Angles $\pm 2^\circ$	

Break sharp corners 0.25 MAX  
All surface finish 63 roughness  
Do Not Scale Drawing

		901 West McCoy Lane P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A. PHONE (805) 928-3851 FSC13201	
		<b>HELICAL PRODUCTS COMPANY</b>	
DRAWN BY	DATE	TITLE	
BJM	09-02-99	HELICAL FLEXIBLE SHAFT COUPLING	
CHECKED BY	DATE	MATL	HT
MC	09-20-99	17-4 PH CRES	
APPRVD BY	DATE	FINISH	Natural
DH	09-28-99		
WEIGHT (calculated)		DRAWING NUMBER	
657 g		<b>W7C50</b>	
SHEET 1 of 3		REV	

# TABULATED DATA

Copyright HELICAL PRODUCTS CO

MATERIAL: 17-4 PH CRES HT

FINISH: Natural

Drawing Number

**W7C50**

REV

DO NOT SCALE DRAWING

SHT 2 of 3

ITEM DESCRIPTION (Part Number)	BORE SIZES		TORQUES (Nm)			KEYWAY Width	
	TOLERANCE		Momentary Dynamic	Non- Reversing	Shock or Reversing	TOLERANCE	
	$\phi A1$	$\phi A2$				$\phi W1$	$\phi W2$
W7C50-14mm-12mm	14.00mm	12.00mm	37	19	9	---	---
W7C50-14mmQ4-12mmQ4	14.00mm	12.00mm	37	19	9	4.00mm	4.00mm
W7C50-14mm-16	14.00mm	.500in	37	19	9	---	---
W7C50-14mm-14mm	14.00mm	14.00mm	37	19	9	---	---
W7C50-15mm-14mm	15.00mm	14.00mm	35	18	9	---	---
W7C50-15mm-15mm	15.00mm	15.00mm	35	18	9	---	---
W7C50-20-6mm	.625in	6.00mm	35	18	9	---	---
W7C50-20-10	.625in	.313in	35	18	9	---	---
W7C50-20-10mm	.625in	10.00mm	35	18	9	---	---
W7C50-20K4-14mmQ5	.625in	14.00mm	35	18	9	.188in	5.00mm
W7C50-20K4-15mmQ5	.625in	15.00mm	35	18	9	.188in	5.00mm
W7C50-16mm-14mm	16.00mm	14.00mm	35	18	9	---	---
W7C50-16mm-16mm	16.00mm	16.00mm	35	18	9	---	---
W7C50-16mmQ5-16mmQ5	16.00mm	16.00mm	35	18	9	5.00mm	5.00mm
W7C50-17mm-10mm	17.00mm	10.00mm	34	17	9	---	---
W7C50-17mm-14mm	17.00mm	14.00mm	34	17	9	---	---
W7C50-17mm-16mm	17.00mm	16.00mm	34	17	9	---	---
W7C50-18mm-14mm	18.00mm	14.00mm	33	17	8	---	---
W7C50-18mm-20K4	18.00mm	.625in	33	17	8	---	.188in
W7C50-18mm-18mm	18.00mm	18.00mm	33	17	8	---	---
W7C50-18mmQ6-18mm	18.00mm	18.00mm	33	17	8	6.00mm	---
W7C50-19mmQ6-9.5mmQ3	19.00mm	9.50mm	31	16	8	6.00mm	3.00mm
W7C50-19mm-12	19.00mm	.375in	31	16	8	---	---
W7C50-19mmW06-12K3	19.00mm	.375in	31	16	8	.189in	.125in
W7C50-19mm-11mm	19.00mm	11.00mm	31	16	8	---	---
W7C50-19mmW06-12mmK3	19.00mm	12.00mm	31	16	8	.189in	.125in
W7C50-19mm-14mm	19.00mm	14.00mm	31	16	8	---	---
W7C50-19mmQ6-20K4	19.00mm	.625in	31	16	8	6.00mm	.188in
W7C50-19mm-16mm	19.00mm	16.00mm	31	16	8	---	---
W7C50-19mmQ6-17mmQ5	19.00mm	17.00mm	31	16	8	6.00mm	5.00mm
W7C50-19mm-18mm	19.00mm	18.00mm	31	16	8	---	---
W7C50-19mm-19mm	19.00mm	19.00mm	31	16	8	---	---
W7C50-19mmQ6-19mmQ6	19.00mm	19.00mm	31	16	8	6.00mm	6.00mm
W7C50-24K4-16mmQ5	.750in	16.00mm	28	14	7	.188in	5.00mm
W7C50-24W06-17mmQ5	.750in	17.00mm	28	14	7	.189in	5.00mm
W7C50-24-18mm	.750in	18.00mm	28	14	7	---	---

# TABULATED DATA

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MATERIAL: 17-4 PH CRES HT

FINISH: Natural

Drawing Number

**W7C50**

REV

DO NOT SCALE DRAWING

SHT 3 of 3

ITEM DESCRIPTION (Part Number)	BORE SIZES		TORQUES (Nm)			KEYWAY Width	
	TOLERANCE		Momentary Dynamic	Non- Reversing	Shock or Reversing	TOLERANCE	
	$\phi A1$	$\phi A2$				$\phi W1$	$\phi W2$
W7C50-20mm-6mm	20.00mm	6.00mm	30	15	8	---	---
W7C50-20mm-10mm	20.00mm	10.00mm	30	15	8	---	---
W7C50-20mm-12mm	20.00mm	12.00mm	30	15	8	---	---
W7C50-20mm-14mm	20.00mm	14.00mm	30	15	8	---	---
W7C50-20mm-15mm	20.00mm	15.00mm	30	15	8	---	---
W7C50-20mm-20	20.00mm	.625in	30	15	8	---	---
W7C50-20mm-16mm	20.00mm	16.00mm	30	15	8	---	---
W7C50-20mm-19mm	20.00mm	19.00mm	30	15	8	---	---
W7C50-20mm-20mm	20.00mm	20.00mm	30	15	8	---	---
W7C50-20mmQ6-20mm	20.00mm	20.00mm	30	15	8	6.00mm	---
W7C50-20mmQ6-20mmQ6	20.00mm	20.00mm	30	15	8	6.00mm	6.00mm
W7C50-22mmQ6-19mmQ6	22.00mm	19.00mm	30	15	8	6.00mm	6.00mm
W7C50-22mmQ6-20mmQ6	22.00mm	20.00mm	30	15	8	6.00mm	6.00mm
W7C50-24mmQ8-24mmQ8	24.00mm	24.00mm	30	15	8	8.00mm	8.00mm
W7C50-25mm-12	25.00mm	.375in	30	15	8	---	---
W7C50-25mm-10mm	25.00mm	10.00mm	30	15	8	---	---
W7C50-25mm-15mm	25.00mm	15.00mm	30	15	8	---	---
W7C50-25mm-22mm	25.00mm	22.00mm	30	15	8	---	---
W7C50-32-16	1.000in	.500in	30	15	8	---	---
W7C50-32-14mm	1.000in	14.00mm	30	15	8	---	---
W7C50-32-20	1.000in	.625in	30	15	8	---	---
W7C50-32-24	1.000in	.750in	30	15	8	---	---
W7C50-28mm-11mmQ3	28.00mm	11.00mm	30	15	8	---	3.00mm
W7C50-28mm-16	28.00mm	.500in	30	15	8	---	---
W7C50-28mm-20mm	28.00mm	20.00mm	30	15	8	---	---
W7C50-32mmQ10-11mmQ4	32.00mm	11.00mm	30	15	8	10.00mm	4.00mm
W7C50-32mmQ10-14mmQ5	32.00mm	14.00mm	30	15	8	10.00mm	5.00mm
W7C50-32mm-19mm	32.00mm	19.00mm	30	15	8	---	---
W7C50-32mm-28mm	32.00mm	28.00mm	30	15	8	---	---