

NOTES:

1 Refer to Secondary Sheet for Tabulated Data.

2 ϕ A1 and ϕ A2 shafts may near butt except:

When any Bore $> \phi$ 16.00 the component shaft MAX penetration is 15.36 or when both Bores $> \phi$ 16.00 the component shaft MAX penetration is 15.36 & the MIN shaft end to shaft end is 19.28.

3 Hubs and HELI-CAL FLEXURE are made from a single piece of material.

4 Set Screw attachment, hex socket, ISO std., cup point set screw furnished: both hubs.

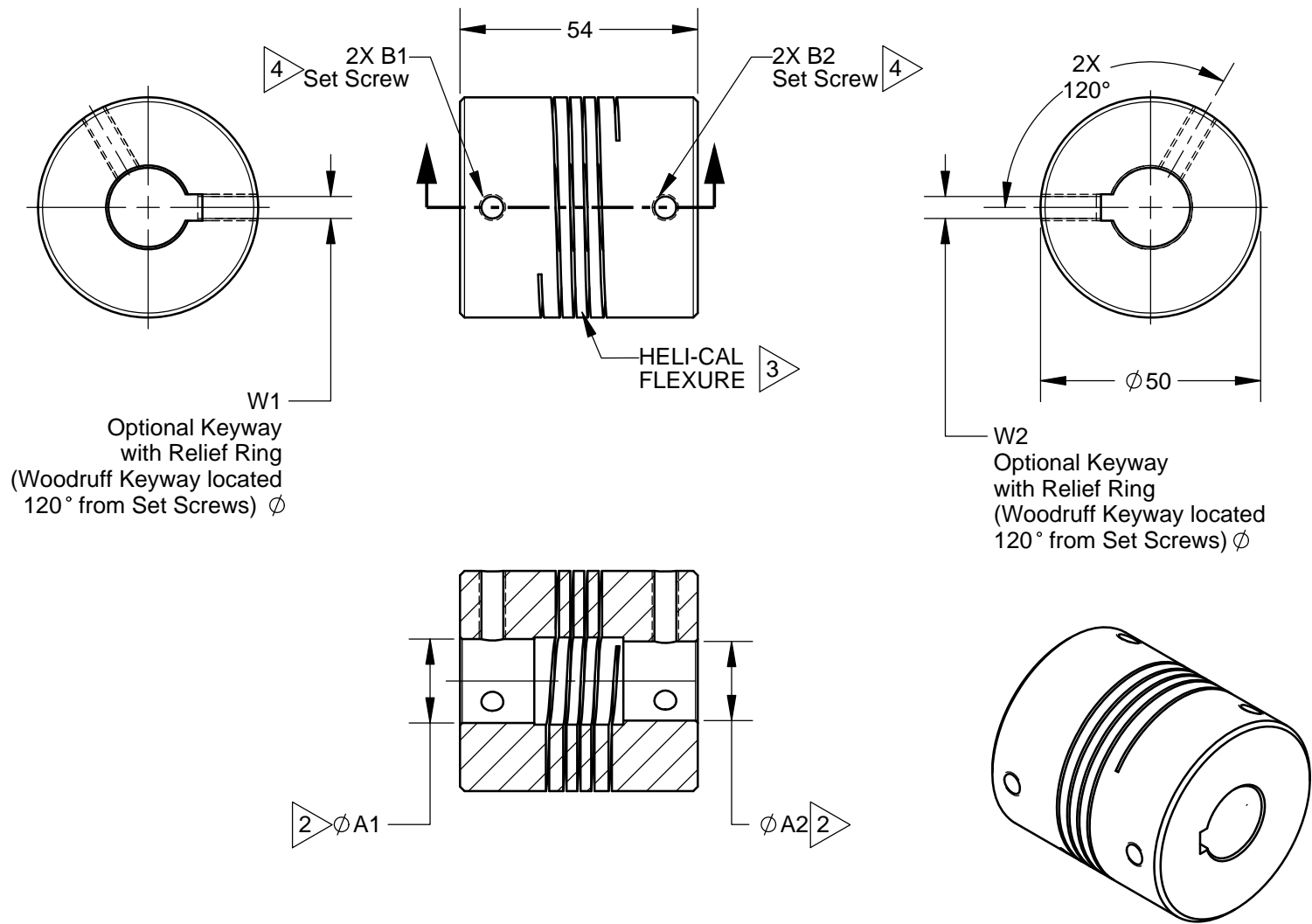
5 Backlash: None. No lubrication required.

6 Permitted axial motion from free length: ± 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° Offset, up to 0.25 (FIM, 0.50)



Optional Keyway with Relief Ring (Woodruff Keyway located 120° from Set Screws) ϕ

Optional Keyway with Relief Ring (Woodruff Keyway located 120° from Set Screws) ϕ

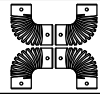
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09-23-13	---	Redrawn in Solidworks	DCE	EK
01-25-10	---	Finish was Chromic Acid Anodize; Updated GD&T	JAJ	HG
DATE	LTR	REVISION	APVR	

Unless otherwise specified all tolerances and dimensions are in millimeters.

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

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

 HELICAL PRODUCTS COMPANY		901 West McCoy Lane P.O. BOX 1069 SANTA MARIA, CA. 93456 U.S.A. PHONE (805) 928-3851 FSC13201	
DRAWN BY	DATE	TITLE	
BJM	09-14-99	HELICAL FLEXIBLE SHAFT COUPLING	
CHECKED BY	DATE	MATL	
MC	09-20-99	7075-T6 Aluminum Alloy	
APPRVD BY	DATE	FINISH	
DH	09-28-99	Anodize IAW HPS1000	
WEIGHT (calculated) 255g		DRAWING NUMBER	
SHEET 1 of 2		WA50	
			REV A

TABULATED DATA

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MATERIAL: 7075-T6 Aluminum Alloy

FINISH: Anodize IAW HPS1000

Drawing Number

WA50

REV

A

DO NOT SCALE DRAWING

SHT 2 of 2

ITEM DESCRIPTION (Part Number)	BORE SIZES		TORQUES (Nm)			SET SCREW THREAD		KEYWAY DIMS	
	TOLERANCE +0.002in or +0.05mm -0.000in or 0		Momentary Dynamic	Non- Reversing	Shock or Reversing	B1	B2	Width TOLERANCE +0.002in or +0.05mm -0.000in or 0	
	Ø A1	Ø A2						W1	W2
WA50-14mm-14mm	14.00mm	14.00mm	19	10	5	M6 X 1.0	M6 X 1.0		
WA50-16mm-16mm	16.00mm	16.00mm	18	9	5	M6 X 1.0	M6 X 1.0		
WA50-16mmQ5-16mmQ5	16.00mm	16.00mm	18	9	5	M6 X 1.0	M6 X 1.0	5.00mm	5.00mm
WA50-18mm-18mm	18.00mm	18.00mm	17	9	4	M6 X 1.0	M6 X 1.0		
WA50-19mm-14mm	19.00mm	14.00mm	16	8	4	M6 X 1.0	M6 X 1.0		
WA50-19mm-18mm	19.00mm	18.00mm	16	8	4	M6 X 1.0	M6 X 1.0		
WA50-24-20	.750in	.625in	16	8	4	M6 X 1.0	M6 X 1.0		
WA50-24Q6-18mmQ6	.750in	18.00mm	16	8	4	M6 X 1.0	M6 X 1.0	6.00mm	6.00mm
WA50-24K4-18mmQ6	.750in	18.00mm	16	8	4	M6 X 1.0	M6 X 1.0	.188in	6.00mm
WA50-20mmQ6-12	20.00mm	.375in	15	8	4	M6 X 1.0	M6 X 1.0	6.00mm	
WA50-20mm-14mm	20.00mm	14.00mm	15	8	4	M6 X 1.0	M6 X 1.0		
WA50-20mm-16mm	20.00mm	16.00mm	15	8	4	M6 X 1.0	M6 X 1.0		
WA50-20mm-18mm	20.00mm	18.00mm	15	8	4	M6 X 1.0	M6 X 1.0		
WA50-20mm-20mm	20.00mm	20.00mm	15	8	4	M6 X 1.0	M6 X 1.0		
WA50-22mmQ5-16mmQ5	22.00mm	16.00mm	15	8	4	M6 X 1.0	M6 X 1.0	5.00mm	5.00mm
WA50-24mm-16mm	24.00mm	16.00mm	15	8	4	M6 X 1.0	M6 X 1.0		
WA50-30mm-24mm	30.00mm	24.00mm	15	8	4	M6 X 1.0	M6 X 1.0		