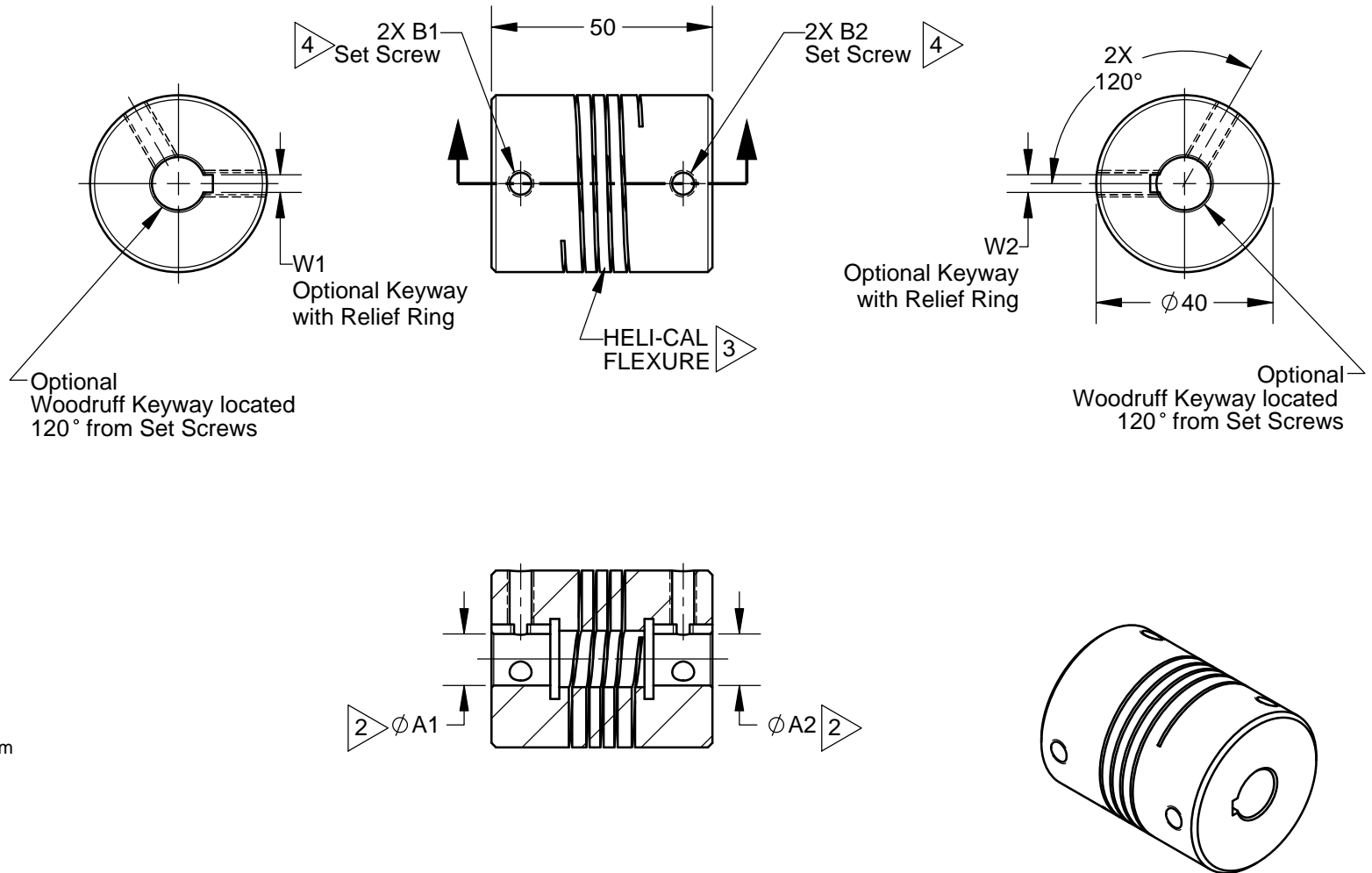


NOTES:

- 1 Refer to Secondary Sheet for Tabulated Data.
- 2  $\phi$ A1 and  $\phi$ 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:  $\pm 0.25$
- 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 Weight based on WA40-12mm-12mm



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11-25-14	---	ECR#14102000 Added calc. weight	DCE	EK
08-14-13	---	Redrawn in Solidworks	CL	JAJ/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

		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	
MC	09-20-99	7075-T6 Aluminum Alloy	
APPRVD BY	DATE	FINISH	
DH	09-28-99	Anodize IAW HPS1000	
WEIGHT (calculated)		DRAWING NUMBER	
145 g		WA40	
SHEET 1 of 2		REV	

# TABULATED DATA

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MATERIAL: 7075-T6 Aluminum Alloy

FINISH: Anodize IAW HPS1000

Drawing Number

**WA40**

REV

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
WA40-12mm-6mm	12.00mm	6.00mm	12.0	6.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-12mmQ4-10	12.00mm	.313in	12.0	6.0	3.0	M6 X 1.0	M6 X 1.0	4.00mm	n/a
WA40-12mm-12mm	12.00mm	12.00mm	12.0	6.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-12mmQ4-12mmQ4	12.00mm	12.00mm	12.0	6.0	3.0	M6 X 1.0	M6 X 1.0	4.00mm	4.00mm
WA40-16-12	.500in	.375in	12.0	6.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-16-16	.500in	.500in	12.0	6.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-13mm-10mm	13.00mm	10.00mm	12.0	6.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-14mm-10mm	14.00mm	10.00mm	11.0	5.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-14mm-12mm	14.00mm	12.00mm	11.0	5.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-14mm-14mm	14.00mm	14.00mm	11.0	5.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-15mm-10mm	15.00mm	10.00mm	10.0	5.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-15mm-11mm	15.00mm	11.00mm	10.0	5.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-15mm-12mm	15.00mm	12.00mm	10.0	5.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-15mm-15mm	15.00mm	15.00mm	10.0	5.0	3.0	M6 X 1.0	M6 X 1.0	---	---
WA40-20-12mm	.625in	12.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-20-20	.625in	.625in	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-16mm-10mm	16.00mm	10.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-16mm-12mm	16.00mm	12.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-16mm-16mm	16.00mm	16.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-18mm-18mm	18.00mm	18.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-19mm-10mm	19.00mm	10.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-19mm-12mm	19.00mm	12.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-19mm-14mm	19.00mm	14.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-19mm-15mm	19.00mm	15.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---
WA40-24mm-14mm	24.00mm	14.00mm	9.7	2.4	4.9	M6 X 1.0	M6 X 1.0	---	---