HELICAL W Series, Aluminum, Technical Data

Basic Model Number			Dimensional Information		Standard Bore Diameters		Performance Data		Inertia	Screw Size		Seating Torque	Center Line
Integral Clamp Attachment	Set Screw Attachment	Outside Diameter Designator	D Outside Diameter (mm)	L Length (mm)	(+0.05mm/-0.00mm) *Note 5*		Momentary Dynamic Torque *Note 2* (Nm)	Torsional Rate (degree/Nm)	x.10^{-4} (kgcmsec^2) *Note 6*	Integral Clamp	Set Screw	(Nm)	(mm)
					Size (mm)	Bore Designator							
WAC		15	15mm	22	3.00 4.00	3 mm 4 mm	0.71 0.66	5.1 7.2	0.028	M2x.4		0.5	2.5
	WA			20	5.00	5 mm	0.59	10.0	0.025		M3x.5	1.0	2.5
WAC		20	20mm	28	4.00 5.00	4 mm 5 mm	1.3 1.2	2.7 3.5	0.11	M3x.5		2.0	3.8
	WA			20	6.00	6 mm	1.1	4.5	0.079		M3x.5	1.0	2.5
WAC		25	25mm	30	6.00 7.00 8.00	6 mm 7 mm 8 mm	2.9 2.8 2.6	1.5 1.8 2.2	0.30	M3x.5		2.0	3.8
	WA			24	9.00 10.00	9 mm 10 mm	2.4 2.2	2.8 3.5	0.24		M4x.7	2.1	3.0
WAC		30	30mm	38	9.00 10.00	9 mm 10 mm	4.9 4.6	1.1 1.3	0.78	M4x.7		4.7	5.0
	WA			30	11.00 12.00	11 mm 12 mm	4.3 4.0	1.6 1.9	0.60		M5x.8	4.7	3.5
WAC		40	40mm	50	12.00 13.00 14.00	12 mm 13 mm 14 mm	12 11 11	0.45 0.51 0.59	3.3	M5x.8		9.5	5.8
	WA			50	15.00 16.00	15 mm 16 mm	10 9.7	0.67 0.78	3.3		M6x1	7.7	6.7
WAC		50	50mm	54	14.00 16.00 18.00	14 mm 16 mm 18 mm	19 18 17	0.25 0.31 0.39	7.6	M6x1		16	6.7
	WA			54	19.00 20.00	19 mm 20 mm	16 15	0.43 0.49	7.6		M6x1	7.7	7.5

HELICAL W Series, Stainless Steel, Technical Data

Basic Model Number			Dimensional Information		Standard Bore Diameters		Performance Data		Inertia	Screw Size		Seating Torque	Center Line
Integral Clamp Attachment	Set Screw Attachment	Outside Diameter Designator	D Outside Diameter (mm)	L Length (mm)	(+0.05mm/-0.00mm) *Note 5*		Momentary Dynamic Torque *Note 2* (Nm)	Torsional Rate (degree/Nm)	x.10^{-4} (kgcmsec^2) *Note 6*	Integral Clamp	Set Screw	(Nm)	(mm)
					Size (mm)	Bore Designator							
W7C		15	15mm	22	3.00 4.00	3 mm 4 mm	1.4 1.3	1.9 2.6	0.078	M2x.4		0.5	2.5
	W7			20	5.00	5 mm	1.2	3.7	0.070		M3x.5	1.0	2.5
W7C		20	20mm	28	4.00 5.00	4 mm 5 mm	2.6 2.5	0.99 1.3	0.32	M3x.5		2.0	3.8
	W7			20	6.00	6 mm	2.3	1.6	0.22		M3x.5	1.0	2.5
W7C		25	25mm	30	6.00 7.00 8.00	6 mm 7 mm 8 mm	5.7 5.5 5.1	0.54 0.66 0.82	0.84	M3x.5		2.0	3.8
	W7			24	9.00 10.00	9 mm 10 mm	4.7 4.3	1.0 1.3	0.66		M4x.7	2.1	3.0
W7C		30	30mm	38	9.00 10.00	9 mm 10 mm	9.5 8.9	0.40 0.48	2.2	M4x.7		4.7	5.0
	W7			30	11.00 12.00	11 mm 12 mm	8.3 7.7	0.58 0.70	1.7		M5x.8	4.7	3.5
W7C		40	40mm	50	12.00 13.00 14.00	12 mm 13 mm 14 mm	23 22 21	0.16 0.19 0.21	9.2	M5x.8		9.5	5.8
	W7			50	15.00 16.00	15 mm 16 mm	20 19	0.24 0.28	9.2		M6x1	7.7	6.7
W7C		50	50mm	54	14.00 16.00 18.00	14 mm 16 mm 18 mm	37 35 33	0.092 0.11 0.14	21	M6x1		16	6.7
	W7			54	19.00 20.00	19 mm 20 mm	31 30	0.16 0.18	21		M6x1	7.7	7.5

Notes

1. Shaft misalignments:
   Angular 5 degrees
   Parallel offset 0.25 mm (0.50 mm T.I.R.)
   Axial motion ± .25 mm.

2. Dynamic torque ratings are momentary values. For non-reversing applications, divide by 2. Divide by 4 for reversing applications. Should the torque ratings be marginal for your application, contact us for analysis.

3. Material : 7075-T6 aluminum alloy
   Finish: clear anodize

   or Material: 17-4PH high-strength stainless steel.

   Finish: natural

4. Manufacturing dimensional tolerances unless otherwise specified are:
   x ± .5 mm
   x.x ± .25 mm

5. Click Here for other available bore dimensions.

6. Inertia is based on smallest standard bore diameter.

7. Keyways available on the 40mm and 50mm OD only.