

HELICAL MC SERIES, Special Bore Configurations

Basic Model Number				Outside Diameter		Special Bore Diameters			
Integral Clamp Attachment	Set screw Attachment			Outside Diameter Designator	D Outside Diameter (in.)	With Relief		Restricted Bore Configurations*	
						Minimum Size in. & (mm)	Maximum Size in. & (mm)	Maximum Size in. & (mm)	Bore Depth in. & (mm)
MC7C				100	1	0.156 (3.96)	0.394 (10.00)	0.563 (14.30)	0.37 (9.40)
	MCAC					0.156 (3.96)	0.394 (10.00)	0.563 (14.30)	
		MC7				0.156 (3.96)	0.394 (10.00)	0.630 (16.00)	
			MCA			0.156 (3.96)	0.394 (10.00)	0.630 (16.00)	
MC7C				125	1 1/4	0.313 (7.95)	0.630 (16.00)	0.668 (16.98)	0.51 (12.95)
	MCAC					0.313 (7.95)	0.512 (13.00)	0.668 (16.98)	
		MC7				0.313 (7.95)	0.630 (16.00)	0.750 (19.05)	
			MCA			0.313 (7.95)	0.512 (13.00)	0.750 (19.05)	
MC7C				150	1 1/2	0.313 (7.95)	0.630 (16.00)	0.908 (23.07)	0.66 (16.76)
	MCAC					0.313 (7.95)	0.512 (13.00)	0.908 (23.07)	
		MC7				0.313 (7.95)	0.630 (16.00)	1.000 (25.40)	
			MCA			0.313 (7.95)	0.512 (13.00)	1.000 (25.40)	
MC7C				200	2	0.375 (9.53)	0.750 (19.05)	1.280 (32.50)	0.75 (19.05)
	MCAC					0.375 (9.53)	0.630 (16.00)	1.280 (32.50)	
		MC7				0.375 (9.53)	0.750 (19.05)	1.500 (38.10)	
			MCA			0.375 (9.53)	0.630 (16.00)	1.500 (38.10)	
MC7C				225	2 1/4	0.375 (9.53)	1.000 (25.40)	1.525 (38.73)	0.86 (21.84)
	MCAC					0.375 (9.53)	0.875 (22.23)	1.525 (38.73)	
		MC7				0.375 (9.53)	1.000 (25.40)	1.750 (44.45)	
			MCA			0.375 (9.53)	0.875 (22.23)	1.750 (44.45)	

HELICAL MC 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 (in.)	L Length (in.)	(+.002in/-.000in) Note 6		Momentary Dynamic Torque Note 2 (lbin)	Torsional Rate (degree/lbin)	x.10 ⁻⁴ (lbinsec ²) Note 7	Integral Clamp Note 4	Set Screw Note 7	(lbin)	(in)	
					Size in. & (mm)	Bore Designator (1/32nd in)								
MCAC		100	1	1.75	0.250 (6.35)	8	26	0.270	0.41	6-32		19	.15	
					0.313 (7.95)	10	23	0.370				25	.15	
	MCA				0.375 (9.53)	12	20	0.530				10-24	65	.20
MCAC		125	1 1/4	2.37	0.313 (7.95)	10	51	0.130	1.3	10-24		50	.22	
					0.375 (9.53)	12	47	0.170				65	.20	
	MCA				0.500 (12.70)	16*	38	0.300				1/4-20	65	.20
MCAC		150	1 1/2	2.62	0.375 (9.53)	12	100	0.065	3.1	10-24		50	.22	
					0.500 (12.70)	16	88	0.100				65	.20	
	MCA							1/4-20				65	.20	
MCAC		200	2	3.00	0.500 (12.70)	16	178	0.035	11.4	1/4-20		120	.26	
					0.625 (15.88)	20	164	0.049				65	.30	
	MCA							1/4-20				65	.30	
MCAC		225	2 1/4	3.50	0.625 (15.88)	20	286	0.024	21.5	1/4-20		120	.26	
					0.750 (19.05)	24	262	0.032				65	.40	
	MCA				0.875 (22.23)	28	233	0.044				1/4-20	65	.40

HELICAL MC 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 (in.)	L Length (in.)	(+.002in/-.000in) Note 6		Momentary Dynamic Torque Note 2 (lbin)	Torsional Rate (degree/lbin)	x.10 ⁻⁴ (lbinsec ²) Note 7	Integral Clamp Note 4	Set Screw Note 4	(lbin)	(in)	
					Size in. & (mm)	Bore Designator (1/32nd in)								
MC7C		100	1	1.75	0.250 (6.35)	8	51	0.098	1.1	6-32		19	.15	
					0.313 (7.95)	10	46	0.140				25	.15	
	MC7				0.375 (9.53)	12	40	0.190				10-32	65	.20
MC7C		125	1 1/4	2.37	0.313 (7.95)	10	98	0.048	3.8	10-32		56	.22	
					0.375 (9.53)	12	91	0.062				65	.20	
	MC7				0.500 (12.70)	16*	74	0.110				1/4-28	65	.20
MC7C		150	1 1/2	2.62	0.375 (9.53)	12	194	0.024	8.7	10-32		56	.22	
					0.500 (12.70)	16	170	0.037				65	.20	
	MC7				0.625 (15.88)	20	140	0.060				1/4-28	65	.20
MC7C		200	2	3.00	0.500 (12.70)	16	347	0.013	31.9	1/4-28		135	.26	
					0.625 (15.88)	20	319	0.018				65	.30	
	MC7				0.750 (19.05)	24	282	0.025				1/4-28	65	.30
MC7C		225	2 1/4	3.50	0.625 (15.88)	20	556	0.009	60.0	1/4-28		135	.26	
					0.750 (19.05)	24	510	0.012				65	.40	
	MC7				0.875 (22.23)	28	454	0.016				1/4-28	65	.40
					1.000 (25.40)	32	392	0.023						

*Refer to note 8

Notes

- Shaft misalignments:
Angular 5 degrees
Parallel Offset .030 in. (.080 in. T.I.R.)
Axial Motion ± .010 in.
- 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.
- Material : 7075-T6 aluminum alloy
Finish: clear anodize

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

Finish: natural
- Metric fasteners available on request.
- Manufacturing dimensional tolerances unless otherwise specified are:
fraction ±1/64
xxx ±.01 in.
- [Click Here](#) for other available bore dimensions.
- Inertia is based on smallest standard bore diameter.
- With integral clamp attachments only, this bore size requires an operating clearance diameter greater than coupling outside diameter.
- Inch and metric keyways available.