

OI performance specs

part number													
type (OC, OI, etc.)	outer diameter, in 16ths of an inch	placeholder, D	bore one size, in 16ths of an inch (E) or in mm (M)	E = English, M = metric bore	bore one type (b = blind, T = thru, K = keyway)	bore two size, in 16ths of an inch (E) or in mm (M)	E = English, M = metric bore	bore two type (b = blind, T = thru, K = keyway)	S = set screw, C = clamping	hub material (see chart at right)	placeholder, "HUB"	midsection material (see chart at right)	placeholder, "MID"
OI	4	D	2	M	B	2	M	B	S	A	HUB	D	MID
OI	6	D	2	E	B	3	E	T	S	A	HUB	D	MID
OI	8	D	2	E	B	4	E	T	S	A	HUB	D	MID
OI	10	D	6	M	B	4	E	B	S	A	HUB	D	MID
OI	12	D	4	E	T	4	E	T	C	A	HUB	D	MID
OI	16	D	6	E	T	6	E	T	C	A	HUB	D	MID
OI	21	D	8	E	T	8	E	T	S	A	HUB	D	MID
OI	26	D	8	E	T	8	E	T	S	A	HUB	D	MID
OI	32	D	8	E	T	10	E	T	C	A	HUB	D	MID
OI	36	D	8	E	T	10	E	T	S	A	HUB	D	MID
OI	4	D	2	M	B	2	M	B	S	A	HUB	T	MID
OI	6	D	2	E	B	3	E	T	S	A	HUB	T	MID
OI	8	D	2	E	B	4	E	T	S	A	HUB	T	MID
OI	10	D	6	M	B	4	E	B	S	A	HUB	T	MID
OI	12	D	4	E	T	4	E	T	C	A	HUB	T	MID
OI	16	D	6	E	T	6	E	T	C	A	HUB	T	MID
OI	21	D	8	E	T	8	E	T	S	A	HUB	T	MID
OI	26	D	8	E	T	8	E	T	S	A	HUB	T	MID
OI	32	D	8	E	T	10	E	T	C	A	HUB	T	MID
OI	36	D	8	E	T	10	E	T	S	A	HUB	T	MID

HUB materials	
code	material
A	aluminum
B	brass
S	stainless steel

MID materials	
code	material
D	Delrin
T	high-temp plastic
U	Urethane

Physical specifications of OI vary with outer diameter and midsection material.

Moment of inertia and mass vary with hub material; this data is based on aluminum hubs.

peak torque	static break torque	torsional stiffness	moment of inertia, (10^8)kgm^2	mass, grams	maximum misalignment					max speed, rpm	maximum ambient temperature		
					radial		angular	axial			deg F	deg C	
					inches	mm	degrees	inches	mm				
Nm	in-lb	Nm	in-lb	Nm/rad	in-lb/rad								
0.085	0.75	0.88	7.79	15	133	0.002	0.05	0.5	0.003	0.08	6000	170	77
0.29	2.57	2.6	23.0	45	398	0.003	0.08	0.5	0.003	0.08	6000	170	77
0.68	6.02	5.1	45.1	79	699	0.004	0.10	0.5	0.003	0.08	5000	170	77
1.32	11.7	7.9	69.9	115	1018	0.006	0.15	0.5	0.003	0.08	5000	170	77
2.3	20.4	12.8	113	155	1372	0.006	0.15	0.5	0.004	0.10	5000	170	77
5.5	48.7	21.5	190	270	2390	0.008	0.20	0.5	0.004	0.10	4500	170	77
12.2	108	57	504	810	7169	0.008	0.20	0.5	0.006	0.15	4500	170	77
23.3	206	73	646	1570	13896	0.01	0.25	0.5	0.006	0.15	4500	170	77
43.1	381	122	1080	1800	15931	0.01	0.25	0.5	0.01	0.25	4000	170	77
61.4	543	193	1708	3400	30093	0.012	0.30	0.5	0.01	0.25	4000	170	77
0.09	0.80	0.9	8	16	142	0.002	0.05	0.5	0.003	0.08	6000	430	221
0.31	2.74	2.7	24	50	443	0.003	0.08	0.5	0.003	0.08	6000	430	221
0.7	6.2	5.2	46	85	752	0.004	0.10	0.5	0.003	0.08	5000	430	221
1.35	11.9	8	71	120	1062	0.006	0.15	0.5	0.003	0.08	5000	430	221
2.4	21.2	13	115	160	1416	0.006	0.15	0.5	0.004	0.10	5000	430	221
5.65	50	21.8	193	280	2478	0.008	0.20	0.5	0.004	0.10	4500	430	221
12.4	110	57.8	512	830	7346	0.008	0.20	0.5	0.006	0.15	4500	430	221
23.5	208	74	655	1600	14161	0.01	0.25	0.5	0.006	0.15	4500	430	221
43.5	385	124	1097	1830	16197	0.01	0.25	0.5	0.01	0.25	4000	430	221
62	549	195	1726	3450	30535	0.012	0.30	0.5	0.01	0.25	4000	430	221