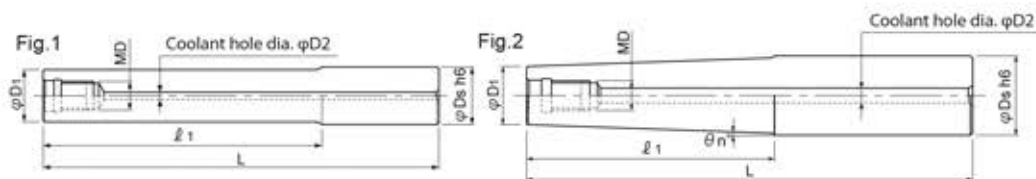


Carbide Shank Modular Head Holder

MSNTYPE

Through Coolant Hole



■ END MILL SHANK TYPE

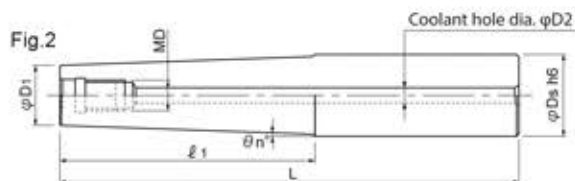
Cat. No.	Stock	Dimensions (mm)							Weight (kg)	Fig.
		φDs	ℓ1	L	φD1	θn°	MD	φD2		
MSN-M6-12-S10C	●	10	12	60	9.7	-			0.06	1
MSN-M6-15-S12C	●	12	15	60	11.5	-			0.08	1
MSN-M6-30-S10C	●	10	30	80	9.7	-			0.07	1
MSN-M6-30-S12C	●	12	30	80	11.5	-			0.11	1
MSN-M6-35T-S12C	□	12	35	92	9.5	1°30'			0.12	2
MSN-M6-50-S10C	●	10	50	100	9.7	-	M6	3	0.09	1
MSN-M6-50-S12C	●	12	50	100	11.5	-			0.13	1
MSN-M6-57T-S12C	●	12	57	114	9.5	1°			0.14	2
MSN-M6-65T-S16C	●	16	65	125	11.2	1°45'			0.28	2
MSN-M6-80-S10C	●	10	80	130	9.7	-			0.12	1
MSN-M6-80-S12C	●	12	80	130	11.5	-			0.18	1
MSN-M8-20-S16C	●	16	20	75	15.5	-			0.17	1
MSN-M8-40-S16C	●	16	40	95	15.5	-			0.22	1
MSN-M8-40T-S20C	□	20	40	100	14.5	3°30'			0.36	2
MSN-M8-77T-S20C	●	20	77	143	14.5	1°45'	M8	4	0.49	2
MSN-M8-80-S16C	●	16	80	135	15.5	-			0.32	1
MSN-M8-120-S16C	●	16	120	175	15.5	-			0.42	1
MSN-M8-152-S16C	●	16	152	207	15.5	-			0.51	1
MSN-M10-20-S20C	●	20	20	80	19.5	-		6	0.29	1
MSN-M10-40-S20C	●	20	40	100	19.5	-			0.39	1
MSN-M10-40T-S20C	●	20	40	100	18.5	0°43'			0.39	2
MSN-M10-70-S20C	●	20	70	130	19.5	-			0.50	1
MSN-M10-85T-S25C	●	25	85	161	18.5	2°			0.90	2
MSN-M10-90-S20C	●	20	90	150	19.5	-	M10	4	0.60	1
MSN-M10-90T-S20C	●	20	90	150	18.5	0°19'			0.58	2
MSN-M10-140-S20C	●	20	140	200	19.5	-			0.80	1
MSN-M10-140T-S20C	●	20	140	200	18.5	0°12'			0.77	2
MSN-M10-160-S20C	●	20	160	220	19.5	-			0.87	1
MSN-M10-210-S20C	●	20	210	270	19.5	-			1.07	1

Note) Please refer page B007 for recommended tightening torque.

Carbide Shank Modular Head Holder

MSN_{TYPE}

Through Coolant Hole



■ END MILL SHANK TYPE

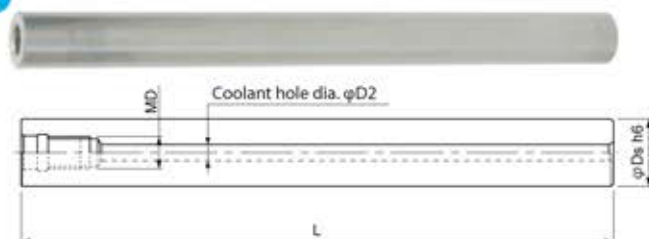
Cat. No.	Stock	Dimensions (mm)							Weight (kg)	Fig.
		φDs	ℓ1	L	φD1	θn°	MD	φD2		
MSN-M12-25-S25C	●	25	25	90	24	-			0.53	1
MSN-M12-55-S25C	●	25	55	120	24	-			0.72	1
MSN-M12-100T-S32C	●	32	100	180	23.5	2°			1.61	2
MSN-M12-105-S25C	□	25	105	170	24	-	M12	6	1.03	1
MSN-M12-135-S25C	●	25	135	215	24	-			1.30	1
MSN-M12-155-S25C	●	25	155	220	24	-			1.34	1
MSN-M12-200-S25C	●	25	200	265	24	-			1.58	1
MSN-M16-25-S32C	●	32	25	90	29	-			0.85	1
MSN-M16-55-S32C	●	32	55	120	29	-			1.13	1
MSN-M16-77-S32C	●	32	77	157	29	-			1.47	1
MSN-M16-97-S32C	●	32	97	177	29	-			1.64	1
MSN-M16-105-S32C	●	32	105	170	29	-			1.59	1
MSN-M16-117T-S32C	●	32	117	197	29	0°38'			1.88	2
MSN-M16-127-S32C	●	32	127	207	29	-			1.89	1
MSN-M16-127T-S32C	□	32	127	207	29	0°30'			2.23	2
MSN-M16-155-S32C	●	32	155	220	29	-	M16	8	2.04	1
MSN-M16-177-S32C	●	32	177	257	29	-			2.32	1
MSN-M16-177T-S32C	●	32	177	257	29	0°23'			2.78	2
MSN-M16-195-S32C	●	32	195	260	29	-			2.40	1
MSN-M16-197T-S32C	●	32	197	277	29	0°23'			3.00	2
MSN-M16-225-S32C	●	32	225	290	29	-			2.57	1
MSN-M16-245-S32C	●	32	245	310	29	-			2.74	1
MSN-M16-295-S32C	●	32	295	360	29	-			3.17	1

Note) Please refer page B007 for recommended tightening torque.

Carbide Shank Modular Head Holder

MSN^{TYPE}

Through Coolant Hole



STRAIGHT ARBOR TYPE

Cat. No.	Stock	Dimensions (mm)				Weight (kg)
		ϕD_s	L	MD	ϕD_2	
MSN-M6-67S-S9.8C	●	9.8	67	M6	3	0.06
MSN-M6-107S-S9.8C	●		107			0.10
MSN-M6-82S-S10C	●	10	82	M6	3	0.08
MSN-M6-122S-S10C	●		122			0.12
MSN-M6-80S-S11.8C	●	11.8	80	M6	3	0.11
MSN-M6-120S-S11.8C	●		120			0.17
MSN-M6-90S-S12C	●	12	90	M6	3	0.13
MSN-M6-130S-S12C	●		130			0.19
MSN-M8-97S-S15C	●	15	97	M8	4	0.21
MSN-M8-147S-S15C	●		147			0.33
MSN-M8-197S-S15C	●		197			0.44
MSN-M8-107S-S16C	●	16	107	M8	4	0.27
MSN-M8-157S-S16C	●		157			0.40
MSN-M10-130S-S18C	●	18	130	M10	4	0.42
MSN-M10-190S-S18C	●		190			0.62
MSN-M10-240S-S18C	●		240			0.89
MSN-M10-130S-S20C	●	20	130	M10	4	0.53
MSN-M10-190S-S20C	●		190			0.78
MSN-M10-250S-S20C	●		250			1.02
MSN-M12-185S-S23C	●	23	185	M12	6	0.98
MSN-M12-265S-S23C	●		265			1.42
MSN-M12-185S-S24C	●	24	185	M12	6	1.07
MSN-M12-265S-S24C	●		265			1.54
MSN-M12-145S-S25C	●		145			0.91
MSN-M12-215S-S25C	●	25	215	M12	6	1.36
MSN-M12-285S-S25C	●		285			1.80
MSN-M16-160S-S28C	●	28	160	M16	8	1.22
MSN-M16-230S-S28C	●		230			1.77
MSN-M16-310S-S28C	●		310			2.41
MSN-M16-157S-S32C	●	32	157	M16	8	1.61
MSN-M16-217S-S32C	●		217			2.22
MSN-M16-287S-S32C	●		287			2.94
MSN-M16-357S-S32C	●		357			3.66

Note) Please refer page B007 for recommended tightening torque.