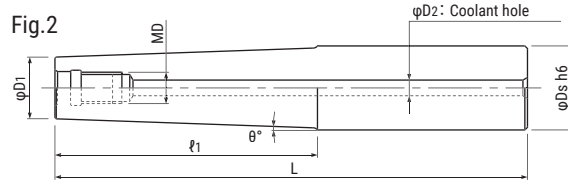
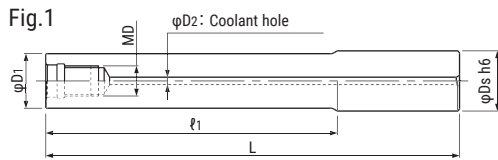


Carbide Modular Head Holder MSN Type

■ Endmill Shank Type

Through coolant hole

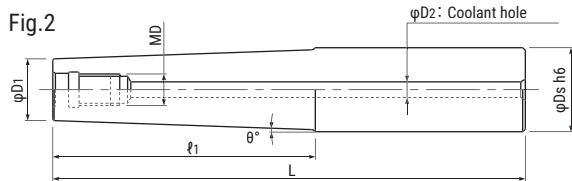
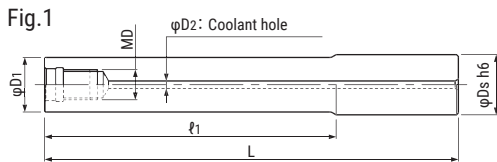


Cat.No.	Stock	Dimensions(mm)							Weight (kg)	Fig.
		φDs	φ1	L	φD1	θ°	MD	φD2		
MSN-M6-12-S10C	●	10	2	60	9.7	-	M6	3	0.06	1
MSN-M6-15-S12C	●	12	15	60	11.5	-			0.08	1
MSN-M6-15-S16C	●	16	15	60	13.5	-			0.15	1
MSN-M6-30-S10C	●	10	30	80	9.7	-			0.07	1
MSN-M6-30-S12C	●	12	30	80	11.5	-			0.11	1
MSN-M6-30-S16C	●	16	30	80	13.5	-			0.19	1
MSN-M6-35T-S12C	●	12	35	92	9.5	1°30'			0.12	2
MSN-M6-50-S10C	●	10	50	100	9.7	-			0.09	1
MSN-M6-50-S12C	●	12	50	100	11.5	-			0.13	1
MSN-M6-50-S16C	●	16	50	100	13.5	-			0.23	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	90	130	9.7	-			0.12	1
MSN-M6-80-S12C	●	12	90	130	11.5	-			0.18	1
MSN-M6-80-S16C	●	16	90	130	13.5	-	0.28	1		
MSN-M8-20-S16C	●	16	20	75	15.5	-	M8	4	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'			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	-	M10	4	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	-			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		

Carbide Modular Head Holder MSN Type

■ Endmill Shank Type

Through coolant hole

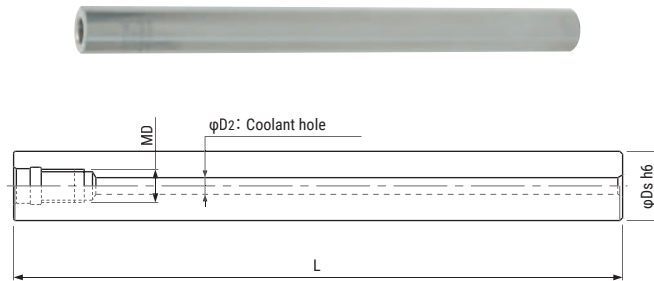


Cat.No.	Stock	Dimensions(mm)							Weight (kg)	Fig.
		ϕDs	$\ell 1$	L	$\phi D1$	θ°	MD	$\phi D2$		
MSN-M12-25-S25C	●	25	25	90	24	-	M12	6	0.53	1
MSN-M12-55-S25C	●	25	55	120	24	-			0.72	1
MSN-M12-100T-S32C	●	32	100	180	23.5	2°			1.61	2
MSN-M12-105-S25C	●	25	105	170	24	-			1.03	1
MSN-M12-135-S25C	●	25	135	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°30'			1.58	1
MSN-M16-25-S32C	●	32	25	90	29	-			M16	8
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	-	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		

Carbide Modular Head Holder MSN Type

■ Straight Type

Through coolant hole



Cat.No.	Stock	Dimensions(mm)				Weight (kg)
		φDs	L	MD	φD2	
MSN-M6-67S-S9.8C	●	9.8	67	M6	3	0.06
MSN-M6-107S-S9.8C	●	9.8	107		3	0.10
MSN-M6-82S-S10C	●	10	82		3	0.08
MSN-M6-122S-S10C	●	10	122		3	0.12
MSN-M6-80S-S11.8C	●	11.8	80		3	0.11
MSN-M6-120S-S11.8C	●	11.8	120		3	0.17
MSN-M6-90S-S12C	●	12	90		3	0.13
MSN-M6-130S-S12C	●	12	130		3	0.19
MSN-M8-87S-S14C	●	14	87		M8	4
MSN-M8-137S-S14C	●	14	137	4		0.26
MSN-M8-97S-S15C	●	15	97	4		0.21
MSN-M8-147S-S15C	●	15	147	4		0.33
MSN-M8-197S-S15C	●	15	197	4		0.44
MSN-M8-107S-S16C	●	16	107	4		0.27
MSN-M8-157S-S16C	●	16	157	4		0.40
MSN-M10-130S-S18C	●	18	130	M10	4	0.42
MSN-M10-190S-S18C	●	18	190		4	0.62
MSN-M10-240S-S18C	●	18	240		4	0.89
MSN-M10-130S-S20C	●	20	130		4	0.53
MSN-M10-190S-S20C	●	20	190		4	0.78
MSN-M10-250S-S20C	●	20	250	4	1.02	
MSN-M12-185S-S23C	●	23	185	M12	6	0.98
MSN-M12-265S-S23C	●	23	265		6	1.42
MSN-M12-185S-S24C	●	24	185		6	1.07
MSN-M12-265S-S24C	●	24	265		6	1.54
MSN-M12-145S-S25C	●	25	145		6	0.91
MSN-M12-215S-S25C	●	25	215		6	1.36
MSN-M12-285S-S25C	●	25	285		6	1.80
MSN-M16-160S-S28C	●	28	160	M16	8	1.22
MSN-M16-230S-S28C	●	28	230		8	1.77
MSN-M16-310S-S28C	●	28	310		8	2.41
MSN-M16-157S-S32C	●	32	157		8	1.61
MSN-M16-217S-S32C	●	32	217		8	2.22
MSN-M16-287S-S32C	●	32	287		8	2.94
MSN-M16-357S-S32C	●	32	357		8	3.66

