PRODUCT NEWS

PN-E-024

SERIES EXPANSION

DIJET

Various modular heads can be combined with different carbide shank holders for a wide range of machining applications

MSN Series

Carbide Modular Head Holder

MSN type
- φ10 - φ32 63 lines

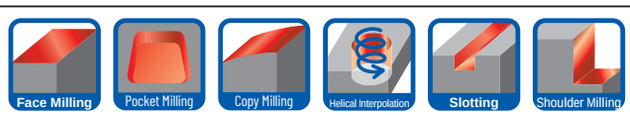
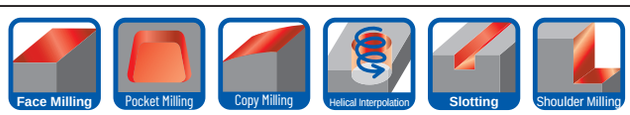
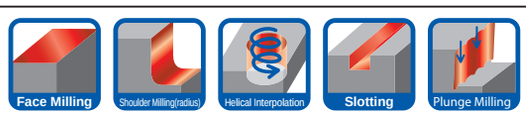
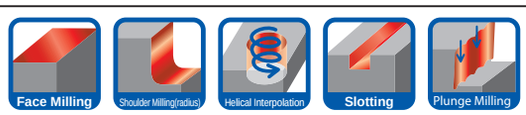
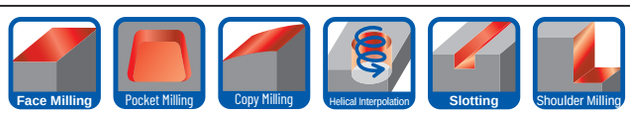
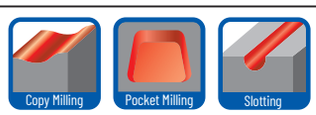
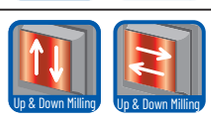
MSN-S type
- φ9.8 - φ32 46 lines

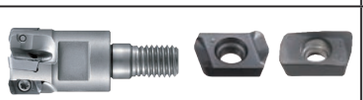
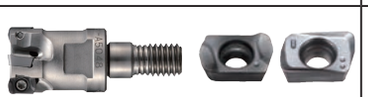
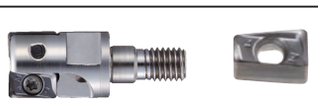
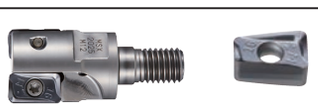
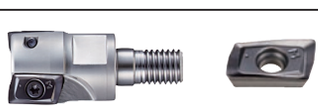
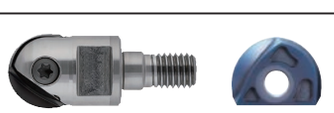


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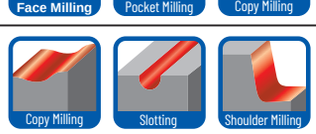
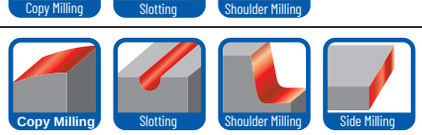
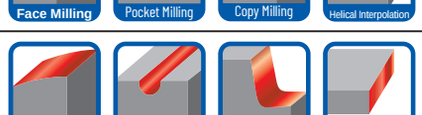
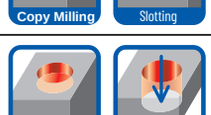
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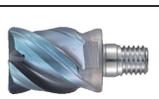
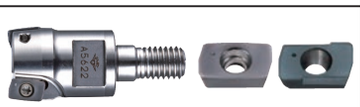
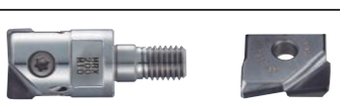
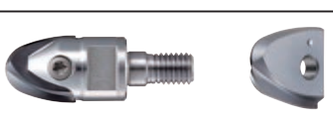
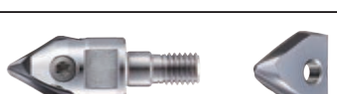
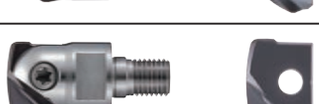
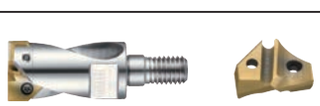
Carbide Modular Head Holder

ISO	Roughing	Semi-Finishing	Finishing	Applications
P M K N S H	★			
P M K N S H	★			
P M K N S H	★			
P M K N S H	★			
P M K N S H	★			
P M K N S H	★	★	★	
P M K N S H	★	★	★	
P M K N S H	★	★		
P M K N S H	★	★		
P M K N S H	★	★		
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H	★	★		
P M K N S H	★	★		
P M K N S H	★	★		

Item Code / Shape	Tool dia.				
	M6	M8	M10	M12	M16
MSG-10 SKS-GII-10 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MSG-09 SKS-GII-09 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MEX-07 SKS EXTREME 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MEX-05 SKS EXTREME 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MXG QM MAX GII 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MQX QM MAX 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MPM QM MILL 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MSX-11 EXSAP 11 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MSX-17 EXSAP 17 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
SSV SIC-EVO 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MBX MIRROR BALL 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MRX MIRROR RADIUS 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MPF Back & Forth Cutter 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MXF DIEMASTER 5G 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MSWX SWING BALL 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MSW SWING BALL 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
SDH SUPER DIEMASTER 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42

Carbide Modular Head Holder

ISO	Roughing	Semi-Finishing	Finishing	Applications
P M K N S H	★			
P M K N S H	★	★		
P M K N S H	★	★		
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H		★	★	
P M K N S H	-	-	-	

Item Code / Shape	Tool dia.				
	M6	M8	M10	M12	M16
MTX EXTREME DIEMASTER 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 **32** 33 35 **40** 42
MAL AERO CHIPPER 	10 11 12 13 14	15 16 17 18	**20** 21 22	**25** 26 27 **28**	**30** **32** 33 **35** **40** 42
MAM AERO CHIPPER MINI 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	**25** 26 27 **28**	**30** **32** 33 **35** **40** **42**
MDB BACK DRAFT CUTTER 	10 11 12 13 14	15 16 17 18	**20** 21 22	**25** **26** 27 28	30 **32** **33** 35 **40** 42
SMSA S-HEAD 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	**25** 26 27 28	**30** **32** 33 35 40 42
SMAL S-HEAD 	10 11 12 13 14	15 16 17 **18**	**20** 21 **22**	**25** 26 27 **28**	30 **32** 33 35 40 42
SMSR S-HEAD 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	**25** 26 27 28	**30** **32** 33 35 40 42
SMHB S-HEAD 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	25 26 27 28	30 32 33 35 40 42
MQT HIGH PRECISION QM MAX 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	**25** 26 27 28	30 **32** 33 **35** 40 42
MRX(KRM) MIRROR BARREL 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	**25** 26 27 28	**30** 32 33 35 40 42
MTP(TNM) MIRROR BARREL 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	25 26 27 28	30 32 33 35 40 42
MTP(TPM) MIRROR BARREL 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	25 26 27 28	30 32 33 35 40 42
MBX(LRM) MIRROR BARREL 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	**25** 26 27 28	**30** 32 33 35 40 42
STLP S-HEAD 	10 11 12 13 14	15 **16** 17 18	**20** 21 22	**25** 26 27 28	30 32 33 35 40 42
TLZD INDEXABLE FLAT DRILL 	**φ14.0 - φ14.5**	**φ14.6 - φ18.5**	**φ18.6 - φ23.5**	**φ24.0 - φ28.5**	**φ29.0 - φ32.0**

Carbide Modular Head Holder

■MSN type

Through Coolant Hole



Fig.1

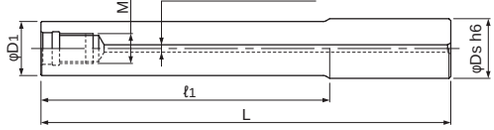
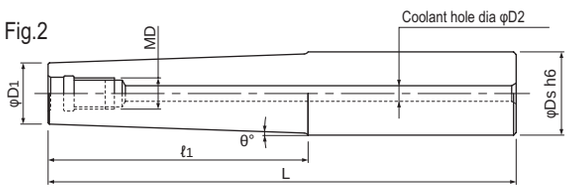


Fig.2



Cat.No.	Stock	Dimensions(mm)							Weight (kg)	Fig.	
		φDs	ℓ1	L	φD1	θ°	MD	φD2			
MSN-M6-12-S10C	●	10	12	60	9.7	-			0.06	1	
MSN-M6-30-S 10C	●	10	30	80	9.7	-			0.07	1	
MSN-M6-50-S 10C	●	10	50	100	9.7	-			0.09	1	
MSN-M6-80-S 10C	●	10	80	130	9.7	-			0.12	1	
MSN-M6-120-S 10C	●	10	120	170	9.7	-			0.16	1	
MSN-M6-170-S 10C	●	10	170	220	9.7	-			0.20	1	★only for high feed
MSN-M6-35T-S12C	○	12	35	92	9.5	1°30'			0.12	2	
MSN-M6-57T-S12C	●	12	57	114	9.5	1°			0.14	2	
MSN-M6-15-S12C	●	12	15	60	11.5	-			0.08	1	
MSN-M6-30-S12C	●	12	30	80	11.5	-	M6	3	0.11	1	
MSN-M6-50-S12C	●	12	50	100	11.5	-			0.13	1	
MSN-M6-80-S12C	●	12	80	130	11.5	-			0.18	1	
MSN-M6-120-S12C	●	12	120	170	11.5	-			0.23	1	
MSN-M6-170-S12C	●	12	170	220	11.5	-			0.30	1	★only for high feed
MSN-M6-65T-S16C	●	16	65	125	11.2	1°45'			0.28	2	
MSN-M6-15-S16C	●	16	15	60	13.5	-			0.15	1	
MSN-M6-30-S16C	●	16	30	80	13.5	-			0.19	1	
MSN-M6-50-S16C	○	16	50	100	13.5	-			0.23	1	
MSN-M6-80-S16C	●	16	80	130	13.5	-			0.28	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-M8-80-S16C	●	16	80	135	15.5	-			0.32	1	
MSN-M8-120-S16C	●	16	120	175	15.5	-	M8	4	0.42	1	
MSN-M8-152-S16C	●	16	152	207	15.5	-			0.51	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-M10-20-S20C	●	20	20	80	19.5	-			0.29	1	
MSN-M10-40-S20C	●	20	40	100	19.5	-			0.39	1	
MSN-M10-70-S20C	●	20	70	130	19.5	-			0.50	1	
MSN-M10-90-S20C	●	20	90	150	19.5	-			0.60	1	
MSN-M10-140-S20C	●	20	140	200	19.5	-			0.80	1	
MSN-M10-160-S20C	●	20	160	220	19.5	-	M10	4	0.87	1	
MSN-M10-210-S20C	●	20	210	270	19.5				1.07	1	
MSN-M10-40T-S20C	●	20	40	100	18.5	0°43'			0.39	2	
MSN-M10-90T-S20C	●	20	90	150	18.5	0°19'			0.58	2	
MSN-M10-140T-S20C	●	20	140	200	18.5	0°12'			0.77	2	
MSN-M10-85T-S25C	●	25	85	161	18.5	2°			0.90	2	

● : Standard stock items　　○ : Stock in Japan

■MSN type



Fig.1

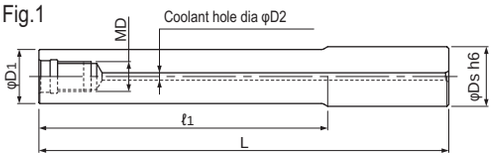
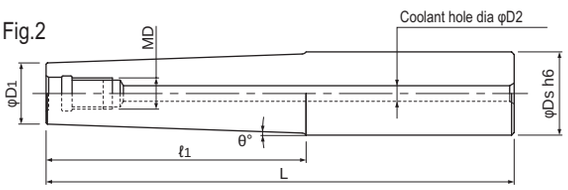


Fig.2



Cat.No.	Stock	Dimensions(mm)							Weight (kg)	Fig.
		φDs	ℓ1	L	φD1	θ°	MD	φD2		
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-M12-70-S25C	●	25	70	135	24	–			0.81	1
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	–			1.58	1
MSN-M12-255-S25C	●	25	255	320	24	–			1.91	1
MSN-M12-100T-S32C	○	32	100	180	23.5	2°			1.61	2
MSN-M16-25-S32C	●	32	25	90	29	–	M16	8	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-M16-127-S32C	●	32	127	207	29	–			1.89	1
MSN-M16-155-S32C	●	32	155	220	29	–			2.04	1
MSN-M16-177-S32C	●	32	177	257	29	–			2.32	1
MSN-M16-195-S32C	●	32	195	260	29	–			2.40	1
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
MSN-M16-315-S32C	●	32	315	380	29	–			3.34	1
MSN-M16-117T-S32C	○	32	117	197	29	0°38'			1.88	2
MSN-M16-127T-S32C	○	32	127	207	29	0°30'			2.23	2
MSN-M16-177T-S32C	●	32	177	257	29	0°23'			2.78	2
MSN-M16-197T-S32C	○	32	197	277	29	0°23'			3.00	2

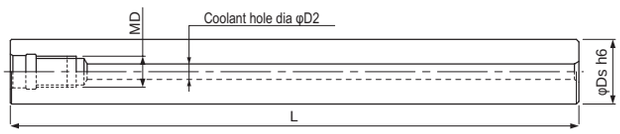
● : Standard stock items　　○ : Stock in Japan

Carbide Modular Head Holder

■MSN-S type

Through Coolant Hole



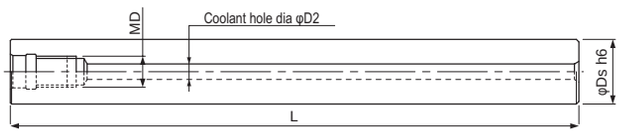


Cat.No.	Stock	Dimensions(mm)				Weight (kg)	
		φDs	L	MD	φD2		
MSN-M6-67S-S9.8C	●	9.8	67	M6	3	0.06	
MSN-M6-107S-S9.8C	●	9.8	107			0.10	
MSN-M6-82S-S10C	●	10	82			0.08	
MSN-M6-122S-S10C	●	10	122			0.12	
MSN-M6-167S-S10C	●	10	167			0.16	
MSN-M6-220S-S10C	●	10	220			0.21	★only for high feed
MSN-M6-80S-S11.8C	●	11.8	80			0.11	
MSN-M6-120S-S11.8C	●	11.8	120			0.17	
MSN-M6-90S-S12C	●	12	90			0.13	
MSN-M6-130S-S12C	●	12	130			0.19	
MSN-M6-170S-S12C	●	12	170			0.25	
MSN-M6-220S-S12C	●	12	220			0.32	★only for high feed
MSN-M8-87S-S14C	○	14	87	M8	4	0.16	
MSN-M8-137S-S14C	●	14	137			0.26	
MSN-M8-97S-S15C	●	15	97			0.21	
MSN-M8-147S-S15C	●	15	147			0.33	
MSN-M8-197S-S15C	●	15	197			0.44	
MSN-M8-217S-S15C	●	15	217			0.49	
MSN-M8-107S-S16C	●	16	107			0.27	
MSN-M8-157S-S16C	●	16	157			0.40	
MSN-M8-220S-S16C	●	16	220			0.57	
MSN-M10-130S-S18C	●	18	130	M10	4	0.42	
MSN-M10-190S-S18C	●	18	190			0.62	
MSN-M10-240S-S18C	●	18	240			0.89	
MSN-M10-270S-S18C	●	18	270			0.90	
MSN-M10-130S-S20C	●	20	130			0.53	
MSN-M10-190S-S20C	●	20	190			0.78	
MSN-M10-250S-S20C	●	20	250			1.02	
MSN-M10-270S-S20C	●	20	270			1.13	

● : Standard stock items　　○ : Stock in Japan

■MSN-S type



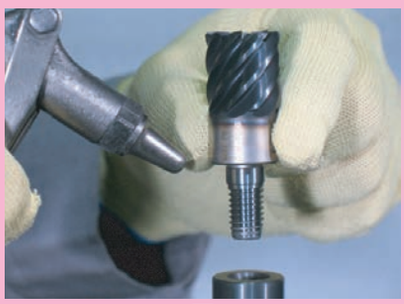


Cat.No.	Stock	Dimensions(mm)				Weight (kg)
		φDs	L	MD	φD2	
MSN-M12-185S-S23C	●	23	185	M12	6	0.98
MSN-M12-265S-S23C	●	23	265			1.42
MSN-M12-185S-S24C	●	24	185			1.07
MSN-M12-265S-S24C	●	24	265			1.54
MSN-M12-145S-S25C	●	25	145			0.91
MSN-M12-215S-S25C	●	25	215			1.36
MSN-M12-285S-S25C	●	25	285			1.80
MSN-M12-320S-S25C	●	25	320			2.06
MSN-M16-160S-S28C	●	28	160	M16	8	1.22
MSN-M16-230S-S28C	●	28	230			1.77
MSN-M16-310S-S28C	●	28	310			2.41
MSN-M16-380S-S28C	●	28	380			2.97
MSN-M16-157S-S32C	●	32	157			1.61
MSN-M16-217S-S32C	●	32	217			2.22
MSN-M16-287S-S32C	●	32	287			2.94
MSN-M16-357S-S32C	●	32	357			3.66
MSN-M16-380S-S32C	●	32	380			3.98

● : Standard stock items　　◯ : Stock in Japan

■ PROPER MOUNTING OF MODULAR HEADS

1 Cleaning

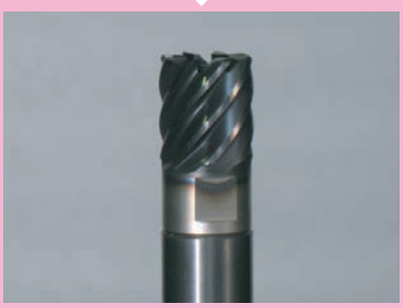




Remove dirt and chips with air from the connecting thread andface of modular head and MSN/MGN shank holder.

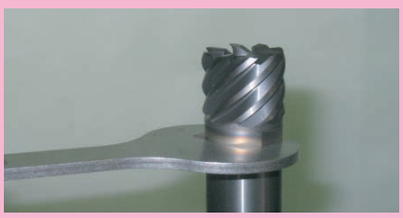
2 Initial Tightening





Tighten by hand until the head and the shank holder faces touch.

3 Final Tightening





Tighten slowly with torque control spanner wrench or DIJET DS type spanner wrench and confrm that there is no gap.

Attention) 1. Final tightening without initial tightening cause connecting thread damage.
2. Only use DS type spanner wrench when use Solid modular head (SMSA/SMSR/SMAL type)

Attention

1. Only use torque control spanner wrench or DIJET DS type spanner wrench.
   In case of choosing torque control spanner wrench, confrm that the wrench size is matched to the dimensions W & C of each modular head.



Torque control spanner



Spanner wrench (DS type)

2. Only apply gentle pressure on wrench.

3. Confirm there is no gap between MSN/MGN shank holder and modular head

■ Steel modular heads

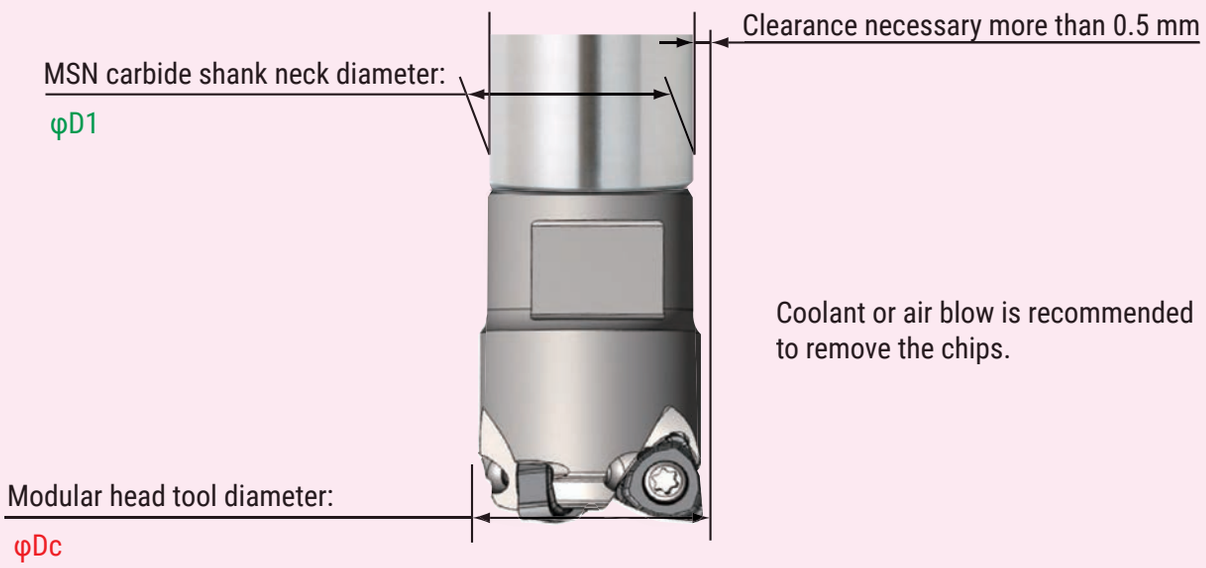
Thread	Tightening torque	Spanner size(W)
M6	8.0N·m	8☆,10
M8	16N·m	12☆
M10	16N·m	14, 15
M12	20N·m	17, 19
M16	25N·m	22, 26

■ Solid modular heads(SMSA/SMSR/SMAL)

Thread	Tightening torque	Spanner size(W)	Cat.No.
M8	10～11N·m	14	DS-14
M10	10～11N·m	14	DS-14
M10	10～16N·m	17	DS-17
M12	15～20N·m	19, 22	DS-19, DS-22
M16	20～25N·m	27	DS-27

SELECTION OF MSN CARBIDE SHANK HOLDER

When using modular head over Ø 16mm, please select MSN carbide shank which the diameter (Ø D1) is 1 mm or smaller than modular head (Ø Dc).
Wrong selection can cause damage to the carbide shank.



⚠ Caution for mounting in shrink fit holder.

When you use a carbide shank and a modular head on a shrink fit holder, please shrink fit only the carbide shank without mounting the modular head. Mount the modular head on the shank after shrink fit operation is complete.
In case of shrink fit MSN shank + modular head together, it will be difficult to loosen due to heat

HEADQUARTER

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