

PRODUCT NEWS

PN-E-024

SERIES EXPANSION



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

MSN Series

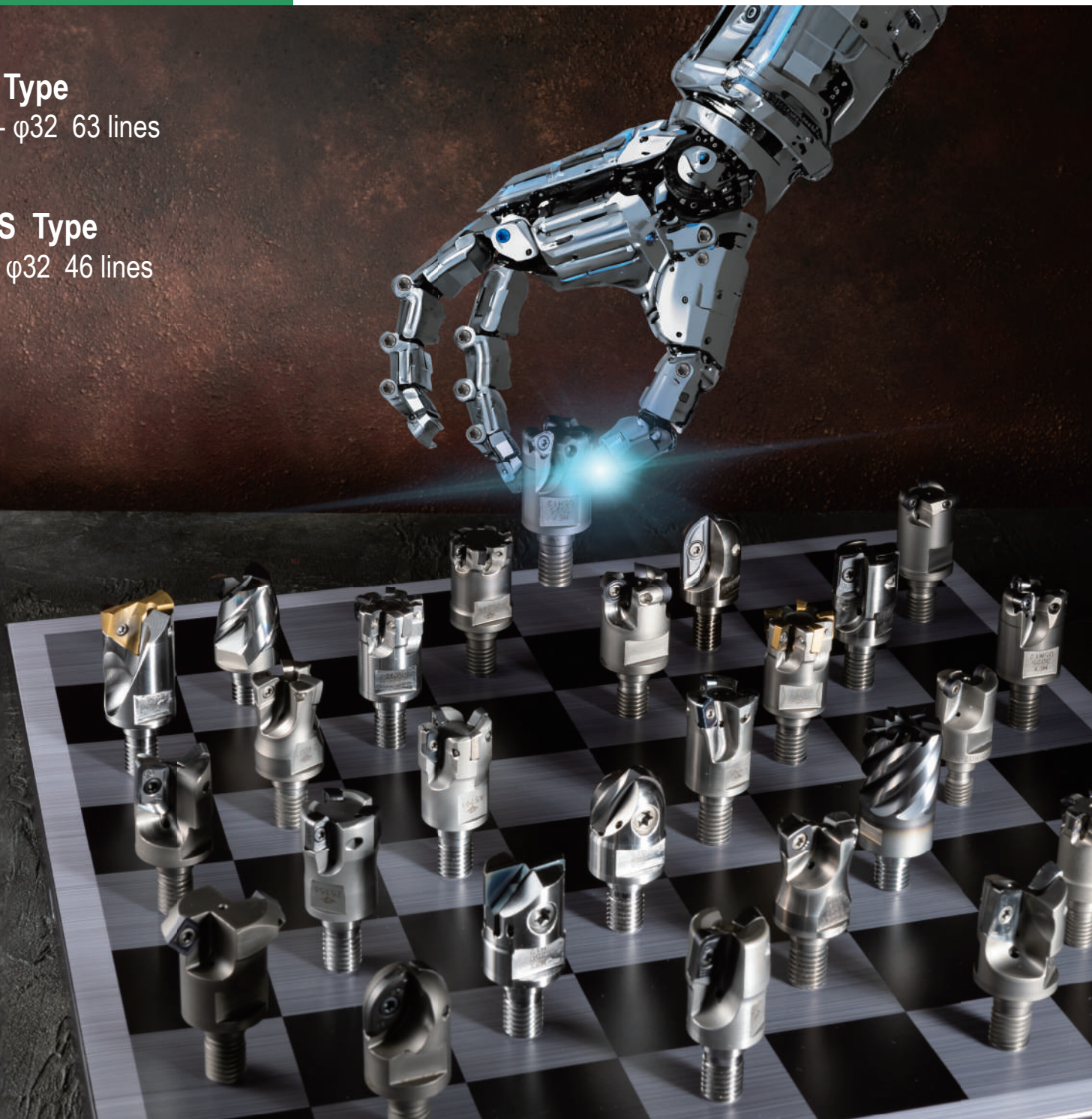
Carbide Modular Head Holder

MSN Type

- \varnothing 9.8 - \varnothing 32 63 lines

MSN-S Type

- \varnothing 10 - \varnothing 32 46 lines

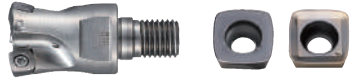















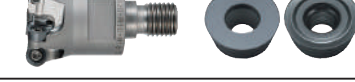


DIJET GmbH




www.dijet.de
















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

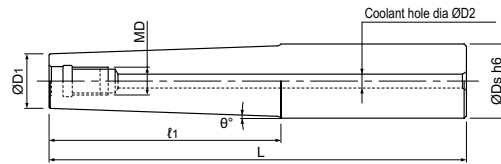
Item Code / Shape	Tool dia.				
	M6	M8	M10	M12	M16
MTX EXTREME DIEMASTER 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MAL AERO CHIPPER 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 33 35 40 42
MAM AERO CHIPPER MINI 	10 11 12 13 14	15 16 17 18	20 21 22	25 26 27 28	30 32 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
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
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
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
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

MSN-T
TYPE

Solid Monoblock Carbide Body

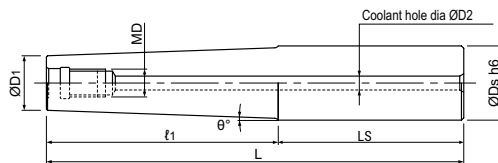


Through coolant hole



Cat.No.	Stock	Dimensions(mm)							Weight (kg)
		ϕD_s	ℓ_1	L	ϕD_1	θ°	MD	ϕD_2	
MSN-M6-35T-S12C	○	12	35	92	9.5	1°30'	M6	3	0.12
MSN-M6-57T-S12C	●	12	57	114	9.5	1°	M6	3	0.14
MSN-M6-65T-S16C	●	16	65	125	11.2	1°45'	M6	3	0.28
MSN-M8-40T-S20C	○	20	40	100	14.5	3°30'	M8	4	0.36
MSN-M8-77T-S20C	●	20	77	143	14.5	1°45'	M8	4	0.49
MSN-M8-90T-S25C	○	25	90	165	14.5	2°	M8	4	0.81
MSN-M10-40T-S20C	●	20	40	100	18.5	0°43'	M10	4	0.39
MSN-M10-90T-S20C	●	20	90	150	18.5	0°19'	M10	4	0.58
MSN-M10-140T-S20C	●	20	140	200	18.5	0°12'	M10	4	0.77
MSN-M10-85T-S25C	●	25	85	161	18.5	2°	M10	4	0.90
MSN-M10-115T-S32C	○	32	115	195	18.5	2°	M10	4	1.54
MSN-M12-100T-S32C	○	32	100	180	23.5	2°	M12	6	1.61
MSN-M16-117T-S32C	○	32	117	197	29	0°38'	M16	8	1.88
MSN-M16-127T-S32C	○	32	127	207	29	0°30'	M16	8	2.23
MSN-M16-177T-S32C	●	32	177	257	29	0°23'	M16	8	2.78
MSN-M16-197T-S32C	○	32	197	277	29	0°23'	M16	8	3.00

Long shank type



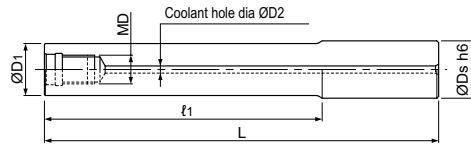
Cat.No.	Stock	Dimensions(mm)							Weight (kg)	
		ϕD_s	ℓ_1	LS	L	ϕD_1	θ°	MD		ϕD_2
MSN-M6-60T-S12C	●	12	60	140	200	9.5	0°54'	M6	3	0.27
MSN-M6-120T-S16C	●	16	120	80	200	11.2	1°	M6	3	0.44
MSN-M8-120T-S20C	●	20	120	130	250	14.5	1°15'	M8	4	0.90
MSN-M8-80T-S25C	●	25	80	170	250	14.5	3°30'	M8	4	1.46
MSN-M10-150T-S25C	●	25	150	150	300	18.5	1°06'	M10	4	1.73
MSN-M10-105T-S32C	●	32	105	195	300	18.5	3°30'	M10	4	2.87



Through coolant hole

MSN
TYPE

Solid Monoblock Carbide Body



Cat.No.	Stock	Dimensions(mm)						Weight (kg)
		ϕDs	$\ell 1$	L	$\phi D1$	MD	$\phi D2$	
MSN-M6-12-S10C	●	10	12	60	9.7	M6	3	0.06
MSN-M6-30-S10C	●	10	30	80	9.7	M6	3	0.07
MSN-M6-50-S10C	●	10	50	100	9.7	M6	3	0.09
MSN-M6-80-S10C	●	10	80	130	9.7	M6	3	0.12
MSN-M6-120-S10C	●	10	120	170	9.7	M6	3	0.16
MSN-M6-170-S10C ※	●	10	170	220	9.7	M6	3	0.20
MSN-M6-15-S12C	●	12	15	60	11.5	M6	3	0.08
MSN-M6-30-S12C	●	12	30	80	11.5	M6	3	0.11
MSN-M6-50-S12C	●	12	50	100	11.5	M6	3	0.13
MSN-M6-80-S12C	●	12	80	130	11.5	M6	3	0.18
MSN-M6-120-S12C	●	12	120	170	11.5	M6	3	0.23
MSN-M6-170-S12C ※	●	12	170	220	11.5	M6	3	0.30
MSN-M6-15-S16C	●	16	15	60	13.5	M6	3	0.15
MSN-M6-30-S16C	●	16	30	80	13.5	M6	3	0.19
MSN-M6-50-S16C	○	16	50	100	13.5	M6	3	0.23
MSN-M6-80-S16C	●	16	80	130	13.5	M6	3	0.28
MSN-M8-20-S16C	●	16	20	75	15.5	M8	4	0.17
MSN-M8-40-S16C	●	16	40	95	15.5	M8	4	0.22
MSN-M8-60-S16C	●	16	60	115	15.5	M8	4	0.28
MSN-M8-80-S16C	●	16	80	135	15.5	M8	4	0.32
MSN-M8-120-S16C	●	16	120	175	15.5	M8	4	0.42
MSN-M8-152-S16C	●	16	152	207	15.5	M8	4	0.51
MSN-M10-20-S20C	●	20	20	80	19.5	M10	4	0.29
MSN-M10-40-S20C	●	20	40	100	19.5	M10	4	0.39
MSN-M10-70-S20C	●	20	70	130	19.5	M10	4	0.50
MSN-M10-90-S20C	●	20	90	150	19.5	M10	4	0.60
MSN-M10-140-S20C	●	20	140	200	19.5	M10	4	0.80
MSN-M10-160-S20C	●	20	160	220	19.5	M10	4	0.87
MSN-M10-210-S20C	●	20	210	270	19.5	M10	4	1.07

※ "MSN-M6-170-S10C" and "MSN-M6-170-S12C" are for high-feed cutting only.



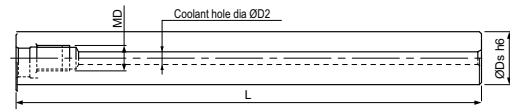
Cat.No.	Stock	Dimensions(mm)						Weight (kg)
		∅Ds	ℓ1	L	∅D1	MD	∅D2	
MSN-M12-25-S25C	●	25	25	90	24	M12	6	0.53
MSN-M12-55-S25C	●	25	55	120	24	M12	6	0.72
MSN-M12-70-S25C	●	25	70	135	24	M12	6	0.81
MSN-M12-105-S25C	●	25	105	170	24	M12	6	1.03
MSN-M12-135-S25C	●	25	135	215	24	M12	6	1.30
MSN-M12-155-S25C	●	25	155	220	24	M12	6	1.34
MSN-M12-200-S25C	●	25	200	265	24	M12	6	1.58
MSN-M12-255-S25C	●	25	255	320	24	M12	6	1.91
MSN-M16-25-S32C	●	32	25	90	29	M16	8	0.85
MSN-M16-55-S32C	●	32	55	120	29	M16	8	1.13
MSN-M16-77-S32C	●	32	77	157	29	M16	8	1.47
MSN-M16-97-S32C	●	32	97	177	29	M16	8	1.64
MSN-M16-105-S32C	●	32	105	170	29	M16	8	1.59
MSN-M16-127-S32C	●	32	127	207	29	M16	8	1.89
MSN-M16-155-S32C	●	32	155	220	29	M16	8	2.04
MSN-M16-177-S32C	●	32	177	257	29	M16	8	2.32
MSN-M16-195-S32C	●	32	195	260	29	M16	8	2.40
MSN-M16-225-S32C	●	32	225	290	29	M16	8	2.57
MSN-M16-245-S32C	●	32	245	310	29	M16	8	2.74
MSN-M16-295-S32C	●	32	295	360	29	M16	8	3.17
MSN-M16-315-S32C	●	32	315	380	29	M16	8	3.34



Through coolant hole

MSN-S
TYPE

Solid Monoblock Carbide Body



Cat.No.	Stock	Dimensions(mm)				Weight (kg)
		øDs	L	MD	øD2	
MSN-M6-67S-S9.8C	●	9.8	67	M6	3	0.06
MSN-M6-107S-S9.8C	●	9.8	107	M6	3	0.10
MSN-M6-82S-S10C	●	10	82	M6	3	0.08
MSN-M6-122S-S10C	●	10	122	M6	3	0.12
MSN-M6-167S-S10C	●	10	167	M6	3	0.16
MSN-M6-220S-S10C ※	●	10	220	M6	3	0.21
MSN-M6-80S-S11.8C	●	11.8	80	M6	3	0.11
MSN-M6-120S-S11.8C	●	11.8	120	M6	3	0.17
MSN-M6-90S-S12C	●	12	90	M6	3	0.13
MSN-M6-130S-S12C	●	12	130	M6	3	0.19
MSN-M6-170S-S12C	●	12	170	M6	3	0.25
MSN-M6-220S-S12C ※	●	12	220	M6	3	0.32
MSN-M8-87S-S14C	○	14	87	M8	4	0.16
MSN-M8-137S-S14C	●	14	137	M8	4	0.26
MSN-M8-97S-S15C	●	15	97	M8	4	0.21
MSN-M8-147S-S15C	●	15	147	M8	4	0.33
MSN-M8-197S-S15C	●	15	197	M8	4	0.44
MSN-M8-217S-S15C	●	15	217	M8	4	0.49
MSN-M8-107S-S16C	●	16	107	M8	4	0.27
MSN-M8-157S-S16C	●	16	157	M8	4	0.40
MSN-M8-220S-S16C	●	16	220	M8	4	0.57
MSN-M10-130S-S18C	●	18	130	M10	4	0.42
MSN-M10-190S-S18C	●	18	190	M10	4	0.62
MSN-M10-240S-S18C	●	18	240	M10	4	0.89
MSN-M10-270S-S18C	●	18	270	M10	4	0.90
MSN-M10-130S-S20C	●	20	130	M10	4	0.53
MSN-M10-160S-S20C	●	20	160	M10	4	0.66
MSN-M10-190S-S20C	●	20	190	M10	4	0.78
MSN-M10-210S-S20C	●	20	210	M10	4	0.87
MSN-M10-250S-S20C	●	20	250	M10	4	1.02
MSN-M10-270S-S20C	●	20	270	M10	4	1.13

※ "MSN-M6-220S-S10C" and "MSN-M6-220S-S12C" are for high-feed cutting only.



Cat.No.	Stock	Dimensions(mm)				Weight (kg)
		∅Ds	L	MD	∅D2	
MSN-M12-145S-S23C	●	23	145	M12	6	0.76
MSN-M12-185S-S23C	●	23	185	M12	6	0.98
MSN-M12-265S-S23C	●	23	265	M12	6	1.42
MSN-M12-185S-S24C	●	24	185	M12	6	1.07
MSN-M12-265S-S24C	●	24	265	M12	6	1.54
MSN-M12-320S-S24C	●	24	320	M12	6	1.85
MSN-M12-145S-S25C	●	25	145	M12	6	0.91
MSN-M12-175S-S25C	●	25	175	M12	6	1.11
MSN-M12-215S-S25C	●	25	215	M12	6	1.36
MSN-M12-245S-S25C	●	25	245	M12	6	1.57
MSN-M12-285S-S25C	●	25	285	M12	6	1.80
MSN-M12-320S-S25C	●	25	320	M12	6	2.06
MSN-M16-160S-S28C	●	28	160	M16	8	1.22
MSN-M16-230S-S28C	●	28	230	M16	8	1.77
MSN-M16-310S-S28C	●	28	310	M16	8	2.41
MSN-M16-380S-S28C	●	28	380	M16	8	2.97
MSN-M16-157S-S32C	●	32	157	M16	8	1.61
MSN-M16-187S-S32C	●	32	187	M16	8	1.93
MSN-M16-217S-S32C	●	32	217	M16	8	2.22
MSN-M16-247S-S32C	●	32	247	M16	8	2.57
MSN-M16-287S-S32C	●	32	287	M16	8	2.94
MSN-M16-317S-S32C	●	32	317	M16	8	3.31
MSN-M16-357S-S32C	●	32	357	M16	8	3.66
MSN-M16-380S-S32C	●	32	380	M16	8	3.98

Carbide Modular Head Holder

■ PROPER MOUNTING OF MODULAR HEADS

1 Cleaning



Remove dirt and chips with air from the connecting thread and face 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

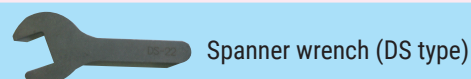


Tighten slowly with torque control spanner wrench or DIJET DS type spanner wrench and confirm that there is no gap.

- 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, confirm that the wrench size is matched to the dimensions W & C of each modular head.




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

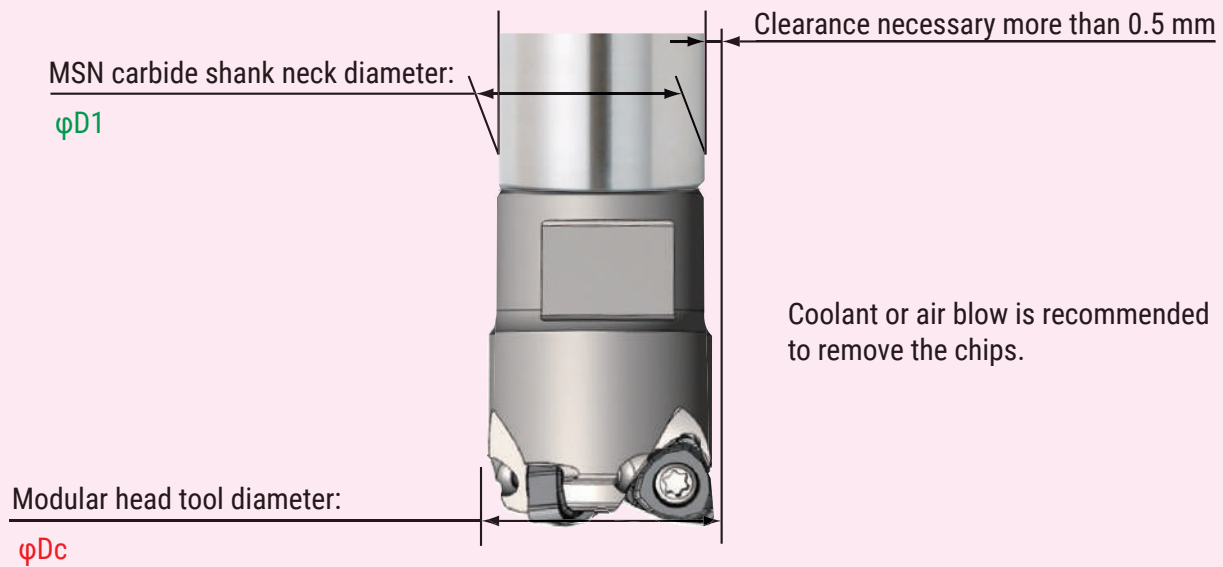
■ Solid modular heads(SMSA/SMSR/SMAL)

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 \varnothing 16mm, please select MSN carbide shank which the diameter (\varnothing D1) is 1 mm or smaller than modular head (\varnothing 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

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