

PRODUCT NEWS

PN-E-024

SERIES EXPANSION



Carbide Modular Head Holder

MSN Series

MSN type : $\varnothing$ 10 - $\varnothing$ 32 50 Lines

MSN-S type : $\varnothing$ 9.8 - $\varnothing$ 32 54 Lines

MSN-T type : $\varnothing$ 12 - $\varnothing$ 32 20 Lines

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

SERIES EXPANSION

MSN type – 1 Line

MSN-S type – 8 Lines

MSN-T type – 6 Lines

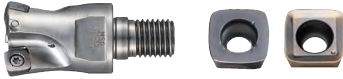
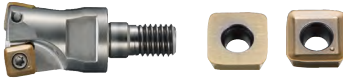


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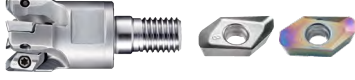
Carbide Modular Head Holder

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

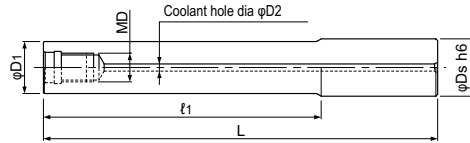
Carbide Modular Head Holder

ISO	Roughing	Semi-Finishing	Finishing	Applications
P M K N S H	★			 Face Milling  Pocket Milling  Copy Milling  Helical Interpolation
P M K N S H	★	★		 Shoulder Milling(radius)  Pocket Milling  Copy Milling  Helical Interpolation  Slotting
P M K N S H	★	★		 Shoulder Milling(radius)  Pocket Milling  Copy Milling  Helical Interpolation  Slotting
P M K N S H		★	★	 Face Milling  Pocket Milling  Copy Milling  Helical Interpolation  Plunge Milling
P M K N S H		★	★	 Face Milling  Copy Milling  Shoulder Milling(radius)
P M K N S H		★	★	 Shoulder Milling  Pocket Milling  Slotting  Helical Interpolation  Drilling
P M K N S H		★	★	 Shoulder Milling(radius)  Pocket Milling  Copy Milling  Helical Interpolation
P M K N S H		★	★	 Copy Milling  Pocket Milling
P M K N S H		★	★	 Face Milling  Shoulder Milling
P M K N S H		★	★	 Face Milling  Shoulder Milling
P M K N S H		★	★	 Face Milling  Pocket Milling  Copy Milling  Helical Interpolation  Shoulder Milling(radius)
P M K N S H		★	★	 Copy Milling  Slotting  Shoulder Milling
P M K N S H		★	★	 Copy Milling  Slotting  Shoulder Milling  Side Milling
P M K N S H		★	★	 Face Milling  Pocket Milling  Copy Milling  Helical Interpolation  Shoulder Milling(radius)
P M K N S H		★	★	 Copy Milling  Slotting  Shoulder Milling  Side Milling
P M K N S H	-	-	-	 Spot Facing  Drilling
P M K N S H	-	-	-	 Spot Facing  Drilling

Item Code / Shape	Tool dia.														
	M6			M8		M10		M12		M16					
MTX EXTREME DIEMASTER 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MAL AERO CHIPPER 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MAM AERO CHIPPER MINI 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MDB BACK DRAFT CUTTER 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
SMSA S-HEAD 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
SMAL S-HEAD 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
SMSR S-HEAD 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
SMHB S-HEAD 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MQT HIGH PRECISION QM MAX 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MPT NEW HIGH PRECISION QM MILL 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MRN(KRM) MIRROR BARREL 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MTP(TNM) MIRROR BARREL 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MTP(TPM) MIRROR BARREL 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
MBX(LRM) MIRROR BARREL 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
STLP S-HEAD 	10	11	12	15	16	20	21	25	26	30	32	33			
	13	14		17	18	22		27	28	35	40	42			
TLZD INDEXABLE FLAT DRILL 	ø14.0 - ø14.5			ø14.6 - ø18.5		ø18.6 - ø23.5		ø24.0 - ø28.5		ø29.0 - ø32.0					
TEZD NEW INDEXABLE DRILL 				ø13.6 - ø18.5		ø18.6 - ø23.5		ø23.6 - ø28.5		ø28.6 - ø32.5					

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			0.07
MSN-M6-50-S10C	●	10	50	100	9.7			0.09
MSN-M6-80-S10C	●	10	80	130	9.7			0.12
MSN-M6-120-S10C	●	10	120	170	9.7			0.16
MSN-M6-170-S10C ※	●	10	170	220	9.7			0.20
MSN-M6-15-S12C	●	12	15	60	11.5			0.08
MSN-M6-30-S12C	●	12	30	80	11.5			0.11
MSN-M6-50-S12C	●	12	50	100	11.5			0.13
MSN-M6-80-S12C	●	12	80	130	11.5			0.18
MSN-M6-120-S12C	●	12	120	170	11.5			0.23
MSN-M6-170-S12C ※	●	12	170	220	11.5			0.30
MSN-M6-15-S16C	●	16	15	60	13.5			0.15
MSN-M6-30-S16C	●	16	30	80	13.5			0.19
MSN-M6-50-S16C	○	16	50	100	13.5			0.23
MSN-M6-80-S16C	●	16	80	130	13.5			0.28
MSN-M8-20-S16C	●	16	20	75	15.5	M8	4	0.17
MSN-M8-40-S16C	●	16	40	95	15.5			0.22
NEW MSN-M8-60-S16C	●	16	60	115	15.5			0.28
MSN-M8-80-S16C	●	16	80	135	15.5			0.32
MSN-M8-120-S16C	●	16	120	175	15.5			0.42
MSN-M8-152-S16C	●	16	152	207	15.5			0.51
MSN-M10-20-S20C	●	20	20	80	19.5	M10	4	0.29
MSN-M10-40-S20C	●	20	40	100	19.5			0.39
MSN-M10-70-S20C	●	20	70	130	19.5			0.50
MSN-M10-90-S20C	●	20	90	150	19.5			0.60
MSN-M10-140-S20C	●	20	140	200	19.5			0.80
MSN-M10-160-S20C	●	20	160	220	19.5			0.87
MSN-M10-210-S20C	●	20	210	270	19.5			1.07

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

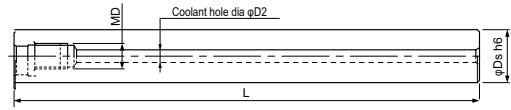
● : Stocked Items ○ : Stock in Japan

Cat.No.	Stock	Dimensions(mm)						Weight (kg)
		øDs	ℓ1	L	øD1	MD	øD2	
MSN-M12-25-S25C	●	25	25	90	24	M12	6	0.53
MSN-M12-55-S25C	●	25	55	120	24			0.72
MSN-M12-70-S25C	●	25	70	135	24			0.81
MSN-M12-105-S25C	●	25	105	170	24			1.03
MSN-M12-135-S25C	●	25	135	215	24			1.30
MSN-M12-155-S25C	●	25	155	220	24			1.34
MSN-M12-200-S25C	●	25	200	265	24			1.58
MSN-M12-255-S25C	●	25	255	320	24			1.91
MSN-M16-25-S32C	●	32	25	90	29	M16	8	0.85
MSN-M16-55-S32C	●	32	55	120	29			1.13
MSN-M16-77-S32C	●	32	77	157	29			1.47
MSN-M16-97-S32C	●	32	97	177	29			1.64
MSN-M16-105-S32C	●	32	105	170	29			1.59
MSN-M16-127-S32C	●	32	127	207	29			1.89
MSN-M16-155-S32C	●	32	155	220	29			2.04
MSN-M16-177-S32C	●	32	177	257	29			2.32
MSN-M16-195-S32C	●	32	195	260	29			2.40
MSN-M16-225-S32C	●	32	225	290	29			2.57
MSN-M16-245-S32C	●	32	245	310	29			2.74
MSN-M16-295-S32C	●	32	295	360	29			3.17
MSN-M16-315-S32C	●	32	315	380	29			3.34

● : Stocked Items ○ : Stock in Japan

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			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
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
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
NEW MSN-M10-160S-S20C	●	20	160			0.66
MSN-M10-190S-S20C	●	20	190			0.78
NEW MSN-M10-210S-S20C	●	20	210			0.87
MSN-M10-250S-S20C	●	20	250			1.02
MSN-M10-270S-S20C	●	20	270			1.13

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

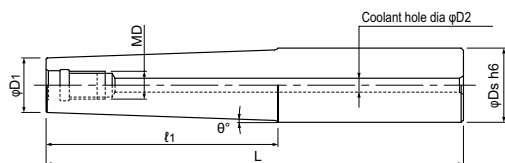
● : Stocked Items ○ : Stock in Japan

Cat.No.	Stock	Dimensions(mm)				Weight (kg)
		øDs	L	MD	øD2	
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
NEW MSN-M12-320S-S24C	●	24	320			1.85
MSN-M12-145S-S25C	●	25	145			0.91
NEW MSN-M12-175S-S25C	●	25	175			1.11
MSN-M12-215S-S25C	●	25	215			1.36
NEW MSN-M12-245S-S25C	●	25	245			1.57
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
NEW MSN-M16-187S-S32C	●	32	187			1.93
MSN-M16-217S-S32C	●	32	217			2.22
NEW MSN-M16-247S-S32C	●	32	247			2.57
MSN-M16-287S-S32C	●	32	287			2.94
NEW MSN-M16-317S-S32C	●	32	317			3.31
MSN-M16-357S-S32C	●	32	357			3.66
MSN-M16-380S-S32C	●	32	380			3.98

● : Stocked Items ○ : Stock in Japan

MSN-T TYPE

Solid Monoblock Carbide Body



Cat.No.	Stock	Dimensions(mm)							Weight (kg)
		ϕDs	ℓ_1	L	$\phi D1$	θ°	MD	$\phi D2$	
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°			0.14
NEW MSN-M6-60T-S12C	●	12	60	200	9.5	0°54'			0.27
MSN-M6-65T-S16C	●	16	65	125	11.2	1°45'			0.28
NEW MSN-M6-120T-S16C	●	16	120	200	11.2	1°			0.44
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'			0.49
NEW MSN-M8-120T-S20C	●	20	120	250	14.5	1°15'			0.90
NEW MSN-M8-80T-S25C	●	25	80	250	14.5	3°30'			1.46
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'			0.58
MSN-M10-140T-S20C	●	20	140	200	18.5	0°12'			0.77
MSN-M10-85T-S25C	●	25	85	161	18.5	2°			0.90
NEW MSN-M10-150T-S25C	●	25	150	300	18.5	1°06'			1.73
NEW MSN-M10-105T-S32C	●	32	105	300	18.5	3°30'			2.87
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'			2.23
MSN-M16-177T-S32C	●	32	177	257	29	0°23'			2.78
MSN-M16-197T-S32C	○	32	197	277	29	0°23'			3.00

● : Stocked Items ○ : Stock in Japan

■ 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.



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

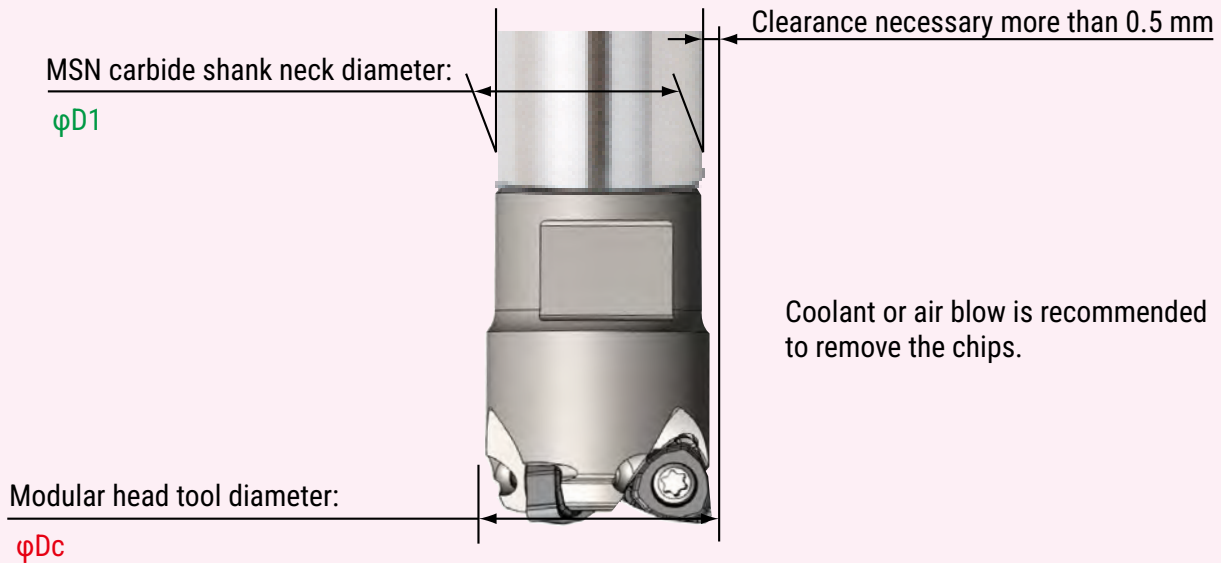
■ Solid modular heads(SMSA/SMSR/SMAL)

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 $\varnothing$ 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.

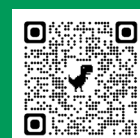
In case of shrink fit MSN shank + modular head together, it will be difficult to loosen due to heat

HEADQUARTERS
DIJET Industrial Co.Ltd.
2-1-18, Kami-Higashi,
Hirano-ku, Osaka 547-0002, Japan
www.dijet.co.jp

 **YouTube | DIJET EUROPE**

DIJET GmbH (EUROPE)
Immermannstraße 9
40210 Düsseldorf, Germany
PHONE +49-211-50088820

Official website | www.dijet.de



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