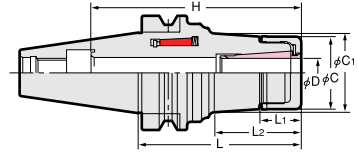


Dampening Effect TiN Bearing Effect

H : MAX. Cutter Shank Length to be inserted

NEW

MDSK6 Series Addition
MDSK13



2LOCK tool can be used on the M/C with BT standard spindle.

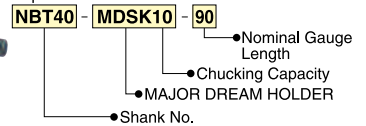
PAT.

TAPER	Code No.	D	L	L1	L2	C	C1	H	Weight (kg)	Collet
No.30	NBT30-MDSK 6- 50	3.0~6.0	50	16.2	19.5	19.5	20.0	73	0.5	SK 6-□ A
	- 60		60		25.5		20.8	83	0.6	
	- 75		75		40.5		22.9	98	0.7	
	- 90		90		55.5		25.0	113	0.8	
	-MDSK10- 50	3.0~10.0	50	18.0	19.0	27.5	27.5	72	0.5	SK10-□ A
	- 60		60		25.7		28.6	82	0.6	
	- 75		75		42.9		31.0	97	0.8	
	- 90		90		58.7		33.2	112	0.8	
	-MDSK13- 60	3.0~13.0	60	22.0	29.0	33.0	34.0	83	0.8	SK13-□ A
	- 75		75		45.0		36.2	98	0.8	
	- 90		90		60.0		38.3	113	0.8	
	-MDSK16- 75	3.0~16.0	75	23.0	47.5	40.0	40.0	60	1.1	SK16-□ A
- 90	90		62.5		40.0		75	1.3		
No.40	NBT40-MDSK 6- 60	3.0~6.0	60	16.2	18.0	19.5	19.5	86	0.8	SK 6-□ A
	- 75		75		33.0		21.9	101	0.9	
	- 90		90		48.0		24.0	116	1.1	
	-105		105		63.0		26.1	131	1.2	
	-120		120		78.0		28.2	146	1.4	
	-MDSK10- 60	3.0~10.0	60	18.0	19.0	27.5	27.5	86	1.1	SK10-□ A
	- 75		75		33.0		29.6	101	1.3	
	- 90		90		48.0		31.7	116	1.5	
	-105		105		63.0		33.8	131	1.6	
	-120		120		78.0		35.9	146	1.8	
	-150	150	110.0	40.4	176	2.2				
	-MDSK13- 65	3.0~13.0	65	22.0	24.0	33.0	33.0	91	1.2	SK13-□ A
	- 75		75		33.0		34.6	101	1.4	
	- 90		90		48.0		36.7	116	1.7	
	-105		105		63.0		38.8	131	1.8	
	-120		120		78.0		40.9	146	2.0	
	-150	150	110.0	45.4	176	2.4				
	-180	180	144.0	50.1	206	2.6				
	-MDSK16- 65	3.0~16.0	65	23.0	24.0	40.0	40.0	91	1.2	SK16-□ A
	- 75		75		33.0		41.4	101	1.5	
	- 90		90		48.0		43.5	116	1.9	
	-105		105		64.0		45.8	131	2.0	
	-120		120		80.0		48.0	146	2.2	
	-150	150	113.0	52.6	176	2.5				
-MDSK20- 75	4.0~20.0	75	25.2	41.2	48.0	51.3	80	1.9	SK20-□ A	
- 90		90		55.0		53.2	95	2.1		
-105		105		70.0		52.2	110	2.3		
-120		120		85.0		53.2	125	2.6		

- ★ Please use A type SK collet for the end milling operation. ☞ P.39
- ★ Please refer ☞ P.43, P.44 for the Jet coolant system, J type nut and cap.
- ★ GH handle is available as an option. ☞ P.30 Please order with the Code No. GH6: MDSK6 &, GH10:MDSK10, GH16:MDSK16, GH20:MDSK20, GH25:MDSK25
- ★ Please add "P" at the end of Code No. for high speed specification, e.g NBT40-MDSK10-60P
- ★ Holder with an adjust screw for axial adjustment is supplied as an option. Please contact us.



Explanation of the Code No.



MAX. min⁻¹

Code No.	MAX. min ⁻¹	Code No.	MAX. min ⁻¹	Code No.	MAX. min ⁻¹
NBT30-MDSK 6-P	30,000	NBT40-MDSK 6-P	25,000	NBT50-MDSK 6-P	20,000
-MDSK10-P		-MDSK10-P		-MDSK10-P	
-MDSK13-P		-MDSK13-P		-MDSK13-P	
-MDSK16-P	25,000	-MDSK16-P	20,000	-MDSK16-P	
		-MDSK20-P		-MDSK20-P	
		-MDSK25-P		-MDSK25-P	

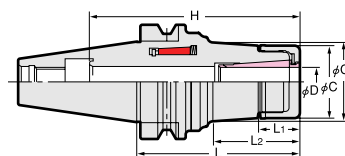


MDSK

Dampening Effect TiN Bearing Effect H : MAX. Cutter Shank Length to be inserted

NEW

MDSK6
MDSK13 Series Addition



2LOCK tool can be used on the M/C with BT standard spindle.

PAT.

TAPER	Code No.	D	L	L1	L2	C	C1	H	Weight (kg)	Collet				
No.50	NBT50-MDSK 6-105	3.0~6.0	105	16.2	48.0	19.5	24.0	116	3.6	SK 6-□A				
	-120		120								63.0	26.1	131	3.7
	-MDSK10-105	3.0~10.0	105	18.2	48.0	27.5	31.7	116	4.3	SK10-□A				
	-120		120								63.2	33.8	131	4.4
	-135		135								78.2	35.9	146	4.7
	-165		165								110.2	40.4	176	5.0
	-195	195	141.2	44.8	206	5.3	SK13-□A							
	-MDSK13-105	3.0~13.0	105	22.0	48.0	33.0		36.7	116	4.2				
	-120		120								63.0	38.8	131	4.7
	-135		135								78.0	40.9	146	5.0
	-165		165								110.0	45.4	176	5.3
	-195		195								144.0	50.1	206	5.6
	-MDSK16-105		3.0~16.0				105				23.0	48.0	40.0	43.5
	-120	120		64.0	45.8	131	4.9							
	-135	135		80.1	48.0	146	5.2							
	-165	165		114.7	52.6	176	5.5							
	-195	195		144.6	52.8	206	5.8							
	-MDSK20-105	4.0~20.0		105	25.2	42.3	48.0	51.4	159	4.9				
	-135		135	72.0							55.6	175	5.3	
	-165		165	102.0							59.8	205	5.9	
	-195		195	132.0							64.0	235	6.7	
	-MDSK25-105	8.0~25.4	105	27.0	42.3	55.0	57.2	159	4.9	SK25-□A				
	-135		135								74.0	61.6	175	5.7
	-165		165								105.0	66.0	205	6.5
-195	195		135.0								70.2	235	7.5	

- ★ Please use A type SK collet for the end milling operation. (P.39)
- ★ Please refer P.43, P.44 for the Jet coolant system, J type nut and cap.
- ★ GH handle is available as an option. (P.30) Please order with the Code No. GH6: MDSK6 &, GH10: MDSK10, GH16: MDSK16, GH20: MDSK20, GH25: MDSK25
- ★ Please add "P" at the end of Code No. for high speed specification, e.g NBT40-MDSK10-60P
- ★ Holder with an adjust screw for axial adjustment is supplied as an option. Please contact us.



Explanation of the Code No.

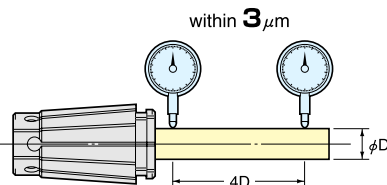
NBT40 - MDSK10 - 90

- Nominal Gauge Length
- Chucking Capacity
- MAJOR DREAM HOLDER
- Shank No.

A TYPE SLIM COLLET



SK



SK Collet A Type
SK 6-3A, 3.175A, 4A, 5A, 6A
SK10-3A, 3.175A, 4A, 5A, 6A, 8A, 10A
SK13-3A, 4A, 5A, 6A, 8A, 10A, 12A
SK16-3A, 4A, 5A, 6A, 8A, 10A, 12A, 16A
SK20-4A, 5A, 6A, 8A, 10A, 12A, 16A, 20A
SK25-8A, 10A, 12A, 16A, 20A, 25A

★ The acceptable shank tolerance of A Type collet is h₈.

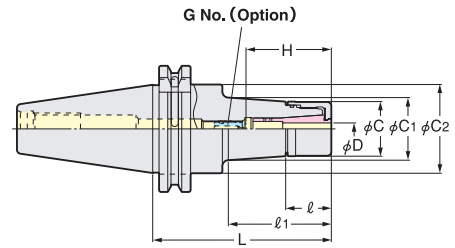
IT ANNIVERSARY TYPE VC HOLDER

NIKKEN



NEW

With TiN Bearing Nut
MAX.30,000min⁻¹ & G2.5
Run-Out Accuracy : 3μm at 4D



VC

TAPER	Code No.	D	L	l	l ₁	C	C ₁	C ₂	H	G No. (Option)	Weight (kg)	MAX. (min ⁻¹)	Collet	
No.40	IT40X-VC 6- 60	2.0~6.0	60	23	23	27.5	27.5	44.7	35~45	VCG 6-8A	1.1	30,000	VCK 6	
	- 90		90		51.9		31.5				1.3			
	-120		120		81.9		35.7				1.5			
	-VC13- 60	3.0~12.0	60	29	29	40	40.0		50~60	VCG13-15A	1.2		1.5	VCK13
	- 90		90		70		44.7				1.5			
	-120		120		100		1.9							
No.50	IT50X-VC 6-105	2.0~6.0	105	23	64.9	27.5	33.4	70.1	35~45	VCG 6-8A	3.9	20,000	VCK 6	
	-135		135		94.9		37.6				4.1			
	-165		165		124.9		41.8				4.4			
	-VC13-105	3.0~12.0	105	29	64.9	40	45.0		50~60	VCG13-15A	4.1		4.5	VCK13
	-135		135		94.9		49.2				4.5			
	-165		165		124.9		53.4				4.9			

- ★TiN Bearing Nut is supplied as standard.
- ★When the axial stopper is required, please use Adjust Screw (G No.)
- ★Please add "-RP" at the end of Code No. for Rust Proof Treatment VC Holder. e.g. IT40X-VC13-60-RP
- ★Please use VC J type Nut & Cap for Centre Through Coolant. When VC J type Nut is used, the total holder length will be extended to 6mm.
- ★IT40X-VC6-150, IT40X-VC13-150, IT50X-VC13-90, -120 are available as semi-standard.
- ★Collet, adjust screw (G No.) and GH Handle are available as an option. P.30
- ★All series are for High Speed Rotation.

VCK Collet



VCK Collet Code No.

VCK 6-2, 3, (3.175), 4, 5, 6
VCK13-3, (3.175), 4, 5, 6, 7, 8, 9, 10, 11, 12

- ★The acceptable shank tolerance of VCK collet is h8.
- ★Inch series is also available.
- ★VCK 6-1/8, 3/16, 1/4 VCK13-1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2
- ★VCK6-3.175 is same as VCK6-1/8.
- ★VCK13-3.175 is same as VCK13-1/8.

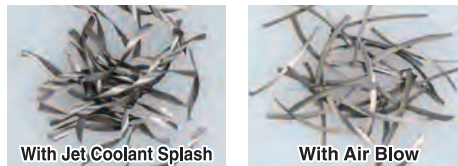


NIT MAJOR DREAM HOLDER

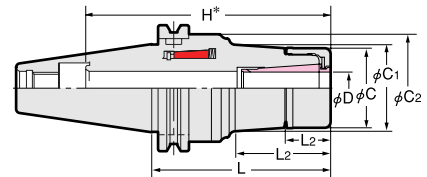
NIKKEN



Difference of the swarfs



Please use Jet Coolant Splash for better swarf generation. P.43

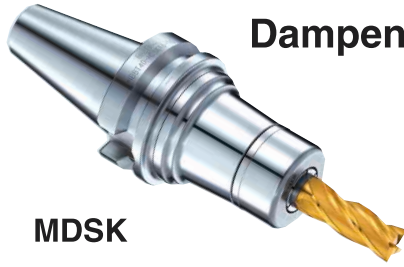


MDSK

TAPER	Code No.	D	L	L ₁	L ₂	C	C ₁	C ₂	H	Weight (kg)	Collet							
No.40	NIT40N-MDSK10- 60	3.0~10.0	60	18.0	19.0	27.5	27.5	54	86	1.1	SK10-□A							
	- 75		75		33.0		29.6			1.3								
	- 90		90		48.0		31.7			1.5								
	-MDSK16- 65	3.0~16.0	65	23.0	24.0	40.0	40.0		91	1.2		1.5	SK16-□A					
	- 75		75		33.0		41.4			1.5								
	- 90		90		48.0		43.5			1.9								
-MDSK20- 75	4.0~20.0	75	25.2	41.2	48.0	51.3	101	1.9	1.9	SK20-□A								
-MDSK10- 90		3.0~10.0		90		18.2		27.0			27.5	28.8	144	4.2	4.3	SK10-□A		
-105				105				42.0				30.9		4.3				
-120	120		57.0	33.0	4.4													
No.50	-MDSK16- 90	3.0~16.0	90	23.0	27.1	40.0	40.6	87	144	3.9	1.5	SK16-□A						
	-105		105		42.1		42.7			4.1								
	-120		120		57.1		44.8			4.9								
	-MDSK20-105	4.0~20.0	105	25.2	42.3	48.0	51.4		159	4.9	4.9	SK20-□A						
	-MDSK25-105		8.0~25.4		105		27			42.3			55.0	57.2	159	4.9	4.9	SK25-□A

- ★Please use A type SK collet that is available as an option for end milling operation. P.39
- ★Please refer P.43 for Jet coolant J type nut and cap.
- ★GH Handle is available as an option. P.30 Please order with the Code No. GH10:MDSK10, GH16:MDSK16, GH20:MDSK20, GH25:MDSK25.
- ★Please add "P" at the end of Code No. for high speed holder, e.g. NIT40N-MDSK10-60P.
- ★φC₂ of NIT40N is larger than the dimension of the IT40 standard.





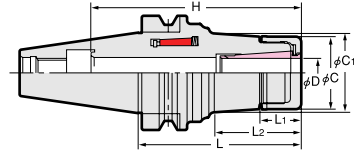
MDSK

Dampening Effect TiN Bearing Effect

H : MAX. Cutter Shank Length to be inserted

NEW

MDSK6 Series Addition
MDSK13



2LOCK tool can be used on the M/C with BT standard spindle.

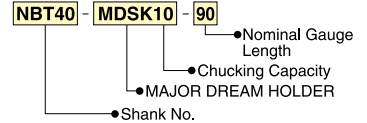
PAT.

TAPER	Code No.	D	L	L1	L2	C	C1	H	Weight (kg)	Collet			
No.30	NBT30-MDSK 6- 50	3.0~6.0	50	16.2	19.5	19.5	20.0	73	0.5	SK 6-□ A			
	- 60		60						25.5		20.8	83	0.6
	- 75		75						40.5		22.9	98	0.7
	- 90		90						55.5		25.0	113	0.8
	-MDSK10- 50	3.0~10.0	50	18.0	27.5	27.5	27.5	72	0.5	SK10-□ A			
	- 60		60						25.7		28.6	82	0.6
	- 75		75						42.9		31.0	97	0.8
	- 90		90						58.7		33.2	112	0.8
	-MDSK13- 60	3.0~13.0	60	22.0	33.0	33.0	34.0	83	0.8	SK13-□ A			
	- 75		75						45.0		36.2	98	0.8
	- 90		90						60.0		38.3	113	0.8
	-MDSK16- 75	3.0~16.0	75	23.0	40.0	40.0	40.0	60	1.1	SK16-□ A			
- 90	90		62.5						75		1.3		
No.40	NBT40-MDSK 6- 60	3.0~6.0	60	16.2	19.5	19.5	19.5	86	0.8	SK 6-□ A			
	- 75		75						33.0		21.9	101	0.9
	- 90		90						48.0		24.0	116	1.1
	-105		105						63.0		26.1	131	1.2
	-120		120						78.0		28.2	146	1.4
	-MDSK10- 60	3.0~10.0	60	18.0	27.5	27.5	27.5	86	1.1	SK10-□ A			
	- 75		75						33.0		29.6	101	1.3
	- 90		90						48.0		31.7	116	1.5
	-105		105						63.0		33.8	131	1.6
	-120		120						78.0		35.9	146	1.8
	-150	150	110.0	40.4	176	2.2							
	-MDSK13- 65	3.0~13.0	65	22.0	33.0	33.0	33.0	91	1.2	SK13-□ A			
	- 75		75						33.0		34.6	101	1.4
	- 90		90						48.0		36.7	116	1.7
	-105		105						63.0		38.8	131	1.8
	-120		120						78.0		40.9	146	2.0
	-150	150	110.0	45.4	176	2.4							
	-180	180	144.0	50.1	206	2.6							
	-MDSK16- 65	3.0~16.0	65	23.0	40.0	40.0	40.0	91	1.2	SK16-□ A			
	- 75		75						33.0		41.4	101	1.5
	- 90		90						48.0		43.5	116	1.9
	-105		105						64.0		45.8	131	2.0
	-120		120						80.0		48.0	146	2.2
	-150	150	113.0	52.6	176	2.5							
-MDSK20- 75	4.0~20.0	75	25.2	48.0	48.0	51.3	80	1.9	SK20-□ A				
- 90		90						55.0		53.2	95	2.1	
-105		105						70.0		52.2	110	2.3	
-120		120						85.0		53.2	125	2.6	

- ★Please use A type SK collet for the end milling operation. ☞ P.170
- ★Please refer ☞ P.43 for the Jet coolant system, J type nut and cap.
- ★GH Handle is available as an option. ☞ P.30 Please order with the Code No. GH6: MDSK6 &, GH10:MDSK10, GH16:MDSK16, GH20:MDSK20, GH25:MDSK25
- ★Please add "P" at the end of Code No. for high speed specification, e.g NBT40-MDSK10-60P
- ★Holder with an adjust screw for axial adjustment is an option. Please contact us.



Explanation of the Code No.



MAX. min⁻¹

Code No.	MAX. min ⁻¹	Code No.	MAX. min ⁻¹	Code No.	MAX. min ⁻¹
NBT30-MDSK 6-P	30,000	NBT40-MDSK 6-P	25,000	NBT50-MDSK 6-P	20,000
-MDSK10-P		-MDSK10-P		-MDSK10-P	
-MDSK13-P		-MDSK13-P		-MDSK13-P	
-MDSK16-P	25,000	-MDSK16-P	20,000	-MDSK16-P	
		-MDSK20-P		-MDSK20-P	
		-MDSK25-P		-MDSK25-P	
					15,000



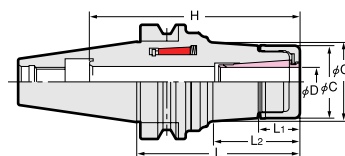
MDSK

Dampening Effect TiN Bearing Effect

H : MAX. Cutter Shank Length to be inserted

NEW

MDSK6 Series Addition
MDSK13



2LOCK tool can be used on the M/C with BT standard spindle.

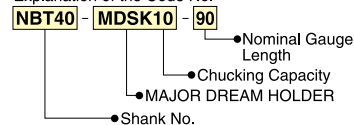
PAT.

TAPER	Code No.	D	L	L1	L2	C	C1	H	Weight (kg)	Collet				
No.50	NBT50-MDSK 6-105	3.0~6.0	105	16.2	48.0	19.5	24.0	116	3.6	SK 6-□ A				
	-120		120								63.0	26.1	131	3.7
	-MDSK10-105	3.0~10.0	105	18.2	48.0	27.5	31.7	116	4.3	SK10-□ A				
	-120		120								63.2	33.8	131	4.4
	-135		135								78.2	35.9	146	4.7
	-165		165								110.2	40.4	176	5.0
	-195		195								141.2	44.8	206	5.3
	-MDSK13-105		3.0~13.0								105	22.0	48.0	33.0
	-120	120		63.0	38.8	131	4.7							
	-135	135		78.0	40.9	146	5.0							
	-165	165		110.0	45.4	176	5.3							
	-195	195	144.0	50.1	206	5.6								
	-MDSK16-105	3.0~16.0	105	23.0	48.0	40.0	43.5	116	4.1	SK16-□ A				
	-120		120								64.0	45.8	131	4.9
	-135		135								80.1	48.0	146	5.2
	-165		165								114.7	52.6	176	5.5
	-195		195								144.6	52.8	206	5.8
	-MDSK20-105	4.0~20.0	105	25.2	42.3	48.0	51.4	159	4.9	SK20-□ A				
	-135		135								72.0	55.6	175	5.3
	-165		165								102.0	59.8	205	5.9
	-195		195								132.0	64.0	235	6.7
	-MDSK25-105	8.0~25.4	105	27.0	42.3	55.0	57.2	159	4.9	SK25-□ A				
	-135		135								74.0	61.6	175	5.7
	-165		165								105.0	66.0	205	6.5
-195	195		135.0								70.2	235	7.5	

- ★ Please use A type SK collet for the end milling operation. (P.170)
- ★ Please refer P.43 for the Jet coolant system, J type nut and cap.
- ★ GH Handle is available as an option. (P.30) Please order with the Code No. GH6: MDSK6 &, GH10: MDSK10, GH16: MDSK16, GH20: MDSK20, GH25: MDSK25
- ★ Please add "P" at the end of Code No. for high speed specification, e.g NBT40-MDSK10-60P
- ★ Holder with an adjust screw for axial adjustment is an option. Please contact us.



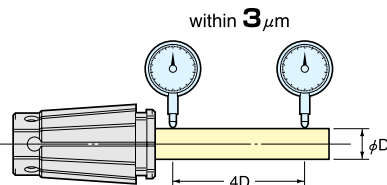
Explanation of the Code No.



A TYPE SLIM COLLET



SK



SK Collet A Type
SK 6-3A, 3.175A, 4A, 5A, 6A
SK10-3A, 3.175A, 4A, 5A, 6A, 8A, 10A
SK13-3A, 4A, 5A, 6A, 8A, 10A, 12A
SK16-3A, 4A, 5A, 6A, 8A, 10A, 12A, 16A
SK20-4A, 5A, 6A, 8A, 10A, 12A, 16A, 20A
SK25-8A, 10A, 12A, 16A, 20A, 25A

★ The acceptable shank tolerance of A Type collet is h8.

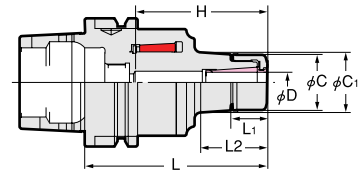
Dampening Effect TiN Bearing Effect

H : MAX. Cutter Shank Length to be inserted



NEW

**MDSK6
MDSK13** Series Addition



MDSK

PAT.

TAPER	Code No.	D	L	L1	L2	C	C1	C2	H	Weight (kg)	Collet				
HSK 50A	HSK 50A-MDSK 6- 70	3.0~6.0	70	16.2	18.2	19.5	19.5	41.6	48	0.7	SK 6-□A				
	- 90		90		38.2		21.9		68	1.0					
	-MDSK10- 70	3.0~10.0	70	18.2	19.2	27.5	27.5		46	0.7	SK10-□A				
	- 90		90		38.2		30.3		66	1.0					
	-MDSK13- 90	3.0~13.0	90	22.0	40.0	33.0	35.6		66	1.1	SK13-□A				
	-MDSK16-115	3.0~16.0	115	23.0	24.0	40.0	40.0		54.0	91	1.4	SK16-□A			
HSK 63A	HSK 63A-MDSK 6- 75	3.0~6.0	75	16.2	18.0	19.5	19.5	52.4	50	1.0	SK 6-□A				
	- 90		90		33.0		21.9		65	1.1					
	-105		105		48.0		24.0		80	1.4					
	-120		120		63.0		26.1		95	1.6					
	-MDSK10- 75	3.0~10.0	75	18.2	19.0	27.5	27.5		49	1.1	SK10-□A				
	- 90		90		33.0		29.6		64	1.4					
	-105		105		48.0		31.7		79	1.6					
	-120		120		63.0		33.8		94	1.8					
	-135	135	79.0	36.0	109	2.1	SK13-□A								
	-MDSK13- 80	3.0~13.0	80	22.0	24.0	33.0			33.0	54	1.2				
	- 90		90		33.0				34.6	64	1.5				
	-105		105		48.0				36.7	79	1.7				
	-120		120		63.0		38.8		94	1.9					
	-135	135	78.0	40.9	110	2.2	SK16-□A								
	-MDSK16- 80	3.0~16.0	80	23.0	24.0	40.0			40.0	54	1.3				
	- 90		90		34.2				41.6	64	1.5				
	-105		105		49.3				43.7	79	1.7				
	-120		120		64.3		45.8		85	1.9					
	-135	135	79.0	47.9	105	2.2	SK20-□A								
	-MDSK20- 90	4.0~20.0	90	25.2	40.9	48.0			51.2	64	1.9				
-105	105		54.3		51.1			79	2.1						
-120	120		70.0		50.6			94	2.4						
-135	135		85.8		51.2		105	2.5							
HSK 100A	HSK100A-MDSK 6-110	3.0~6.0	110	16.2	33.0	19.5	21.9	54.0	80	3.9	SK 6-□A				
	-125		125		48.0		24.0		95	4.0					
	-140		140		63.0		26.1		110	4.1					
	-165		165		88.0		29.6		135	4.5					
	-MDSK10-110	3.0~10.0	110	18.2	33.0	27.5	29.8		80	4.0	SK10-□A				
	-125		125		48.0		31.7		95	4.1					
	-140		140		63.0		33.8		110	4.2					
	-165		165		89.0		37.4		135	4.6					
	-MDSK13-110	3.0~13.0	110	22.0	33.0	33.0	34.6		75	4.3	SK13-□A				
	-125		125		48.0		36.7		90	4.4					
	-140		140		63.0		38.8		105	4.5					
	-165		165		88.0		42.3		130	5.0					
	-MDSK16-125	3.0~16.0	125	23.0	51.0	40.0	44.0		87	4.6	SK16-□A				
	-140		140		66.0		46.1		104	4.8					
	-165		165		91.0		49.6		129	5.3					
	-MDSK20-140		4.0~20.0		140		25.2		42.0	48.0		51.4	104	4.9	SK20-□A
	-165	165		67.0	54.9	129			5.5						
	-MDSK25-140	8.0~25.4		140	27.0	43.0			55.0		57.3	104	4.9	SK25-□A	
	-165			165		69.0					60.9	129	5.6		

★Please use A type SK collet for the end milling operation. ☞ P.209

★Please refer ☞ P.38, P.42 for the Jet coolant system, J type nut and cap.

★GH Handle is available as an option. ☞ P.30 Please order with the Code No. GH6: MDSK6 & GH10:MDSK10, GH16:MDSK16, GH20:MDSK20, GH25:MDSK25

★Please add "P" at the end of Code No. for high speed specification, e.g HSK63A-MDSK10-75P

★Holder with an adjust screw for axial adjustment is supplied as an option. Please contact us.

