

hard material matters



HSK-T turning tools

EN



CERATIZIT - secrets of success

Secrets of success

- CERATIZIT is your partner for exceptional hard material solutions. Hard materials and tools from CERATIZIT - our solutions to complex problems are an integral part of our customers' success. Our products guarantee: economy - long life - speed! And it is precisely this combination which gives our business partners a direct competitive advantage.
- Premier performance is only possible through a total appreciation of the requirements of our business partners. A performance achieved through flexible thinking and continuous dialogue with our customers. A pioneering spirit and a deep understanding of powder metallurgy characterize the history of CERATIZIT. One of the attributes of our company philosophy is the search for perfection: target oriented - sustainably - passionately!
- Intensive research and development activities, taking into account the precise requirements and working processes of the customer, are today's investment for the solutions of tomorrow - and beyond.

Corporate values

- 1 The views and focus of our business partners matter
- 2 Innovative and flexible thinking matters
- 3 Communication matters
- 4 Employee development matters
- 5 Professionalism matters
- 6 Our environment matters



Tailored cutting tool solutions

- Cutting materials, coatings, inserts, tooling systems and machining solutions - all this is included in the cutting tool division at CERATIZIT.
- Worldwide well-known companies process advanced materials applying cutting tool products from CERATIZIT: from the automotive industry to the aerospace industry, mechanical engineering, and tool construction to the oil industry.
- The basis of these long-term business relations is the faith of the customers in the extensive know-how of the carbide specialists.

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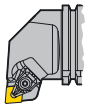
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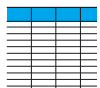
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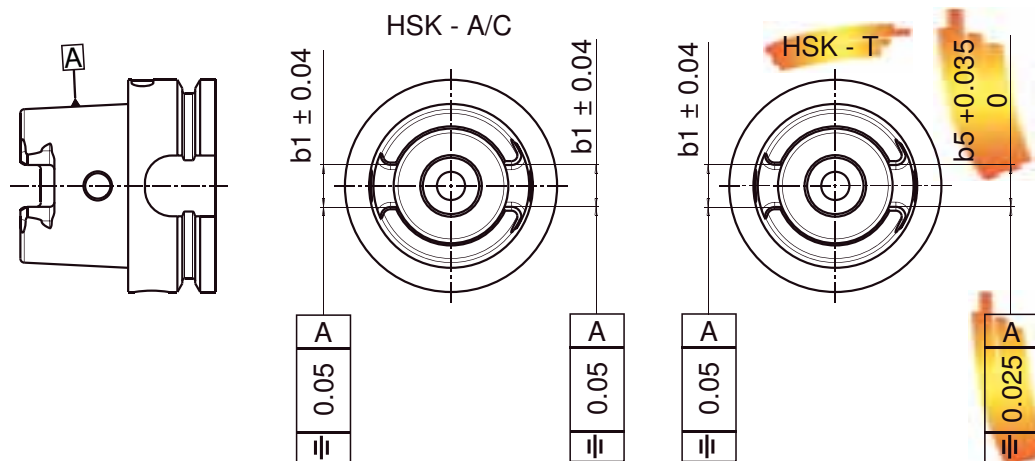
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System description

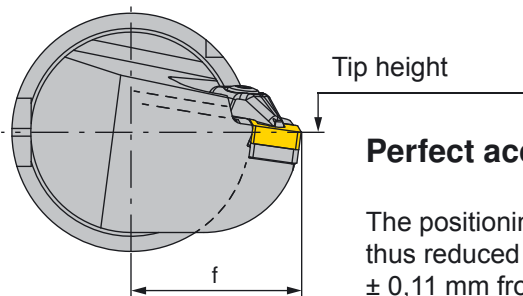
Characteristics

What is HSK-T?

The 'T' stands for 'Turning'. The HSK-T has the shape of a HSK taper, form A / C (ISO 12164 and 2) and can be fundamentally distinguished from this taper by its considerably closer tolerances of the driving grooves (tool) and drive dogs (adapter). In this way the radial positioning precision (tip height) which is of crucial importance for turning is guaranteed. The HSK-T is standardized according to ISO 12164-3 (outer taper - tool) and -4 (inner taper - adapter).



Benefit



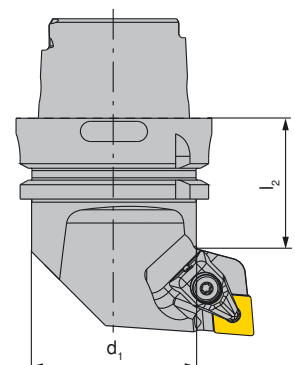
Perfect accuracy – also when it comes to the tip height

The positioning of the cutting edge, in HSK-T63, dimension f 55 mm, is thus reduced to $\pm 0,13$ mm and in HSK-T100, dimension f 55 mm to $\pm 0,11$ mm from centre.

Applicable on all machines with HSK-T or HSK-A spindle

In all CERATIZIT HSK-T-tools the dimensions d_1 and l_1 comply with ISO 12164-1 (HSK-A).

Therefore they can also be applied and automatically changed on machines which are designed for HSK-A tools.



System description



Optimized coolant supply = more efficient production processes

The innovative design of the coolant hole ensures that the cool-jet precisely hits the cutting edge, which ensures efficient cooling and leads to considerably enhanced tool life and reduced production time.

Suitable for minimum quantity lubrication (MQL).

Complete tooling program for complete machining

The CERATIZIT HSK-T tooling program is specifically designed for machining in one set-up. At present it is available in sizes HSK-T63 and HSK-T100 ex stock and optimally covers all machining types:



- ▶ Turning heads for internal and external turning
- ▶ Tool heads for parting and grooving
- ▶ EcoCut multi-function tools
- ▶ Tool holders for square and round shanks
- ▶ Extensions and reducers
- ▶ HSK-T – UT / KM adapters
- ▶ HSK-A adapters for rotating tools

Completely machined with HSK-T tools



Engine case

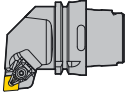
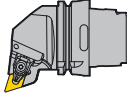
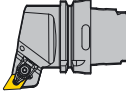
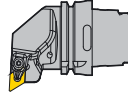
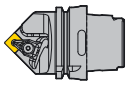
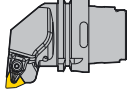
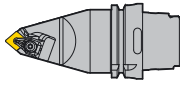
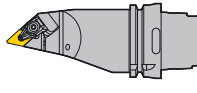
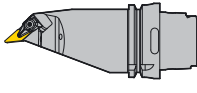
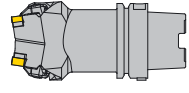


Large bevel gear for wind turbine




Program overview

HSK-T63

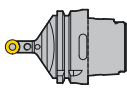
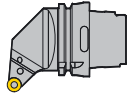
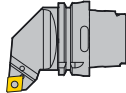
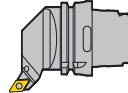
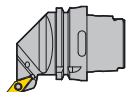
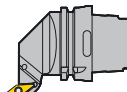
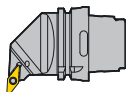
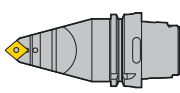
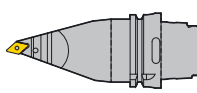
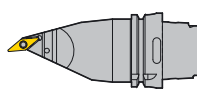
HSK-T turning heads for negative inserts

			
DCLN. 10	DDHNN 10	DDJN. 11	DDUN. 11
			
DSDNN 12	DWLN.. 12		
			
DCMNN 13	DDMNL 13	DVMNL 14	DCM.+DDM. 14

HSK-T boring bars for negative inserts

			
DCLN. 15	DDUN. 15	DWLN. 16	

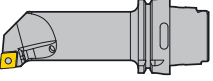
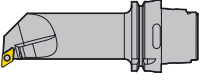
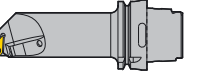
HSK-T turning heads for positive inserts

			
PRDCN 18	PRSC. 18	SCLC. 19	SDJC. 19
			
SVHC. 20	SVJC. 20	SVUC. 21	
			
SCMCN 21	SDMCL 22	SVMCL 22	

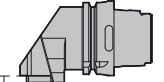
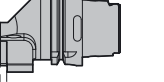
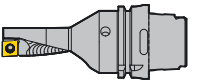
Program overview

HSK-T63 / HSK-A63




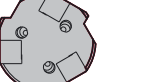
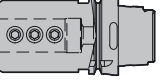
HSK-T boring bars for positive inserts

			
SCLC. 23	SDUC. 23	SVUC. 24	

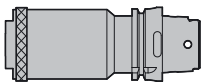
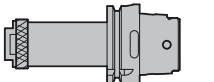
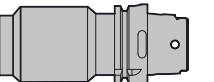
HSK-T parting, grooving, thread turning, multi-function tools

			
00 27	90 27	EcoCut 29	

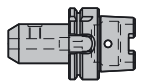
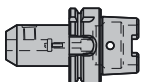
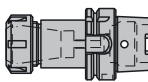
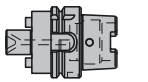
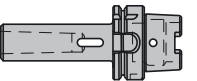
HSK-T tool holders

			
SH.00 30	SH.45 30	SHN90 31	SH3L00 31
			
BH. 32			

HSK-T extensions, reducers and adapters

			
V. 33	R. 33	UT. 33	

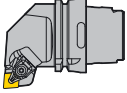
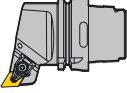
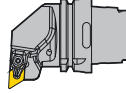
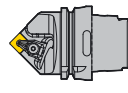
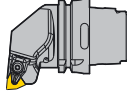
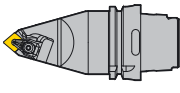
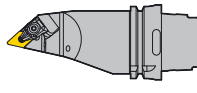
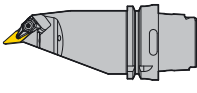
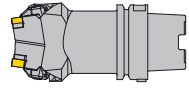
HSK-A adapters for rotating tools

			
WE. 34-35	WN. 36-37	ER. 38-40	QA. 41
			
MK. 42			

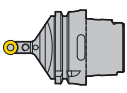
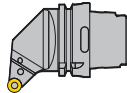
Program overview

HSK-T100

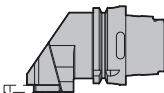
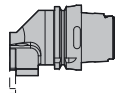
HSK-T turning heads for negative inserts

			
DCLN. 10	DDJN. 11	DDUN. 11	DSDNN 12
			
DWLN. 12			
			
DCMNN 13	DDMNL 13	DVMNL 14	DCM.+DDM. 14


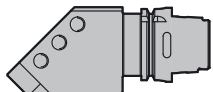
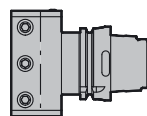
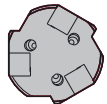
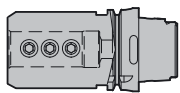
HSK-T turning heads for positive inserts

			
PRDCN 18	PRSC. 18		

HSK-T parting, grooving, thread turning, multi-function tools

			
00 27	90 27		

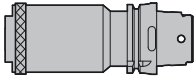
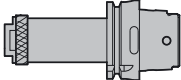
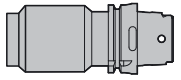
HSK-T tool holders

			
SH.00 30	SH.45 30	SHN90 31	SH3L00 31
			
BH. 32			

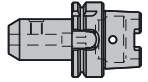
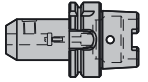
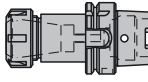
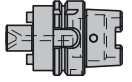
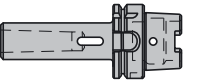
Program overview

HSK-T100 / HSK-A100

HSK-T extensions, reducers and adapters

			
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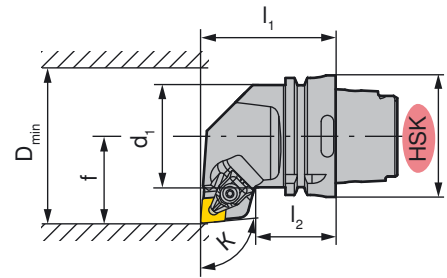
HSK-A adapters for rotating tools


			
WE. 34-35	WN. 36-37	ER. 38-40	QA. 41
			
MK. 42			

HSK-T






Turning heads for negative inserts

DCLN..

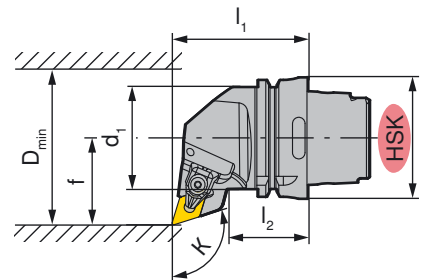



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-DCLNL-12	95	45	70	42	53	100	 CN.. 1204..
T63	HSK-T63-DCLNL-16	95	45	70	42	53	125	CN.. 1606..
T63	HSK-T63-DCLNL-19	95	45	70	42	53	125	CN.. 1906..
T63	HSK-T63-DCLNR-12	95	45	70	42	53	100	CN.. 1204..
T63	HSK-T63-DCLNR-16	95	45	70	42	53	125	CN.. 1606..
T63	HSK-T63-DCLNR-19	95	45	70	42	53	125	CN.. 1906..
T100	HSK-T100-DCLNL-12	95	55	80	45	88	125	CN.. 1204..
T100	HSK-T100-DCLNR-12	95	55	80	45	88	125	CN.. 1204..
T100	HSK-T100-DCLNL-19	95	55	80	45	88	125	CN.. 1906..
T100	HSK-T100-DCLNR-19	95	55	80	45	88	125	CN.. 1906..

Ordering example: 1 piece HSK-T63-DCLNL-12






				
CN.. 1204..	M4,5x12-15IP/10002887	U-CN12T3-D	S-15IP-T	SET-02-D
CN.. 1606..	M5x14-20IP/10003023	U-CN1604-D	S-20IP-T	SET-03-D
CN.. 1906..	M5x14-20IP/10003023	U-CN1905-D	S-20IP-T	SET-04-D

DDHN..



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-DDHNL-15	107,5	45	70	42	53	125	DN.. 1506..
T63	HSK-T63-DDHNR-15	107,5	45	70	42	53	125	DN.. 1506..

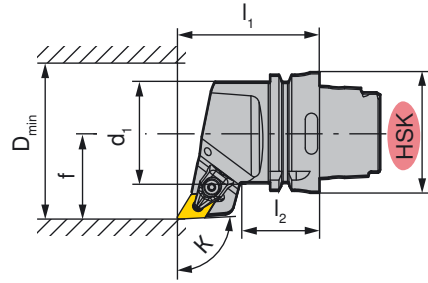
Ordering example: 1 piece HSK-T63-DDHNL-15

				
DN.. 1506..	M4,5x12-15IP/10002887	U-DN15T3-D	S-15IP-T	SET-02-D

HSK-T

Turning heads for negative inserts

DDJN..

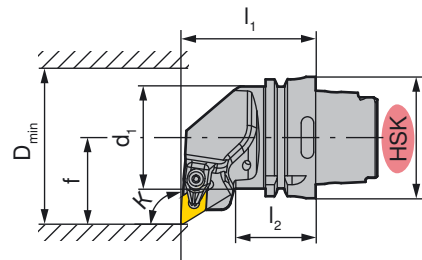


HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-DDJNL-15	93	45	75	42	53	125	DN.. 1506..
T63	HSK-T63-DDJNR-15	93	45	75	42	53	125	DN.. 1506..
T100	HSK-T100-DDJNL-15	93	55	85	45	88	125	DN.. 1506..
T100	HSK-T100-DDJNR-15	93	55	85	45	88	125	DN.. 1506..

Ordering example: 1 piece HSK-T63-DDJNL-15

DN.. 1506..	M4,5x12-15IP/10002887	U-DN15T3-D	S-15IP-T	SET-02-D

DDUN..



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-DDUNL-15	93	45	70	42	53	125	DN.. 1506..
T63	HSK-T63-DDUNR-15	93	45	70	42	53	125	DN.. 1506..
T100	HSK-T100-DDUNL-15	93	55	80	45	88	125	DN.. 1506..
T100	HSK-T100-DDUNR-15	93	55	80	45	88	125	DN.. 1506..

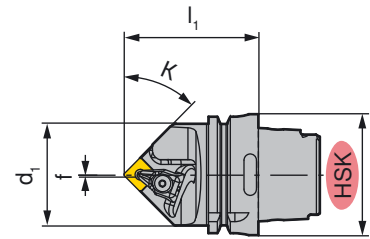
Ordering example: 1 piece HSK-T63-DDUNL-15


DN.. 1506..	M4,5x12-15IP/10002887	U-DN15T3-D	S-15IP-T	SET-02-D

HSK-T






Turning heads for negative inserts

DSDNN

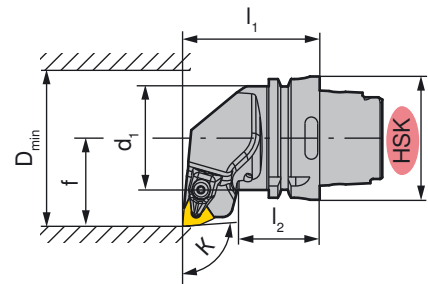



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	d ₁ [mm]				
T63	HSK-T63-DSDNN-12	45	0	70	53				SN.. 1204..
T63	HSK-T63-DSDNN-15	45	0	75	53				SN.. 1506..
T100	HSK-T100-DSDNN-12	45	0	80	88				SN.. 1204..
T100	HSK-T100-DSDNN-19	45	0	85	88				SN.. 1906..

Ordering example: 1 piece HSK-T63-DSDNN-12

				
SN.. 1204..	M4,5x12-15IP/10002887	U-SN12T3-D	S-15IP-T	SET-02-D
SN.. 1506..	M5x14-20IP/10003023	U-CN1604-D	S-20IP-T	SET-03-D
SN.. 1906..	M5x14-20IP/10003023	U-SN1905-D	S-20IP-T	SET-04-D

DWLN..



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-DWLN-08	95	45	70	42	53	125		WN.. 0804..
T63	HSK-T63-DWLN-08	95	45	70	42	53	125		WN.. 0804..
T100	HSK-T100-DWLN-08	95	55	80	45	88	125		WN.. 0804..
T100	HSK-T100-DWLN-08	95	55	80	45	88	125		WN.. 0804..

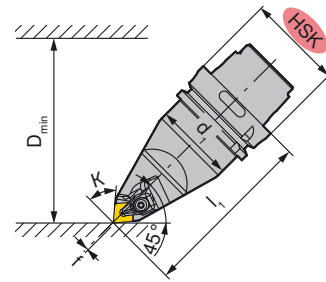
Ordering example: 1 piece HSK-T63-DWLN-08


				
WN.. 0804..	M4,5x12-15IP/10002887	U-WN08T3-D	S-15IP-T	SET-02-D

HSK-T

Turning heads for negative inserts

DCMNN

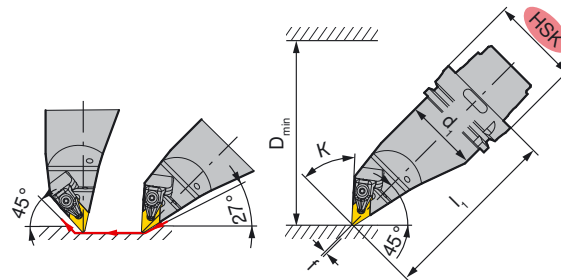



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-DCMNN-12	50	0	115	53	110		CN.. 1204..
T100	HSK-T100-DCMNN-12	50	0	150	88	115		CN.. 1204..

Ordering example: 1 piece HSK-T63-DCMNN-12






				
CN.. 1204..	M4,5x12-15IP/10002887	U-CN12T3-D	S-15IP-T	SET-02-D

DDMNL



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-DDMNL15	48	0	130	53	110		DN.. 1506..
T100	HSK-T100-DDMNL-15	48	0	160	88	120		DN.. 1506..

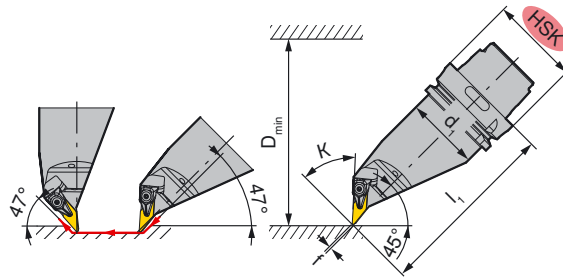
Ordering example: 1 piece HSK-T63-DDMNL15

				
DN.. 1506..	M4,5x12-15IP/10002887	U-DN15T3-D	S-15IP-T	SET-02-D

HSK-T

Turning heads for negative inserts

DVMNL

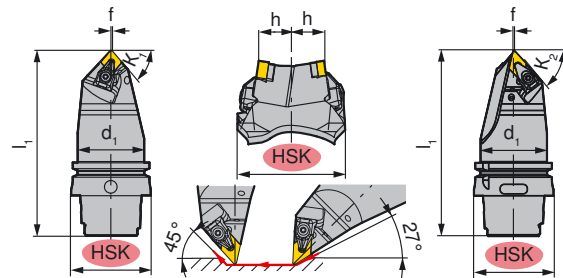


HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-DVMNL-16	50	0	130	53	110		VN.. 1604..
T100	HSK-T100-DVMNL-16	50	0	160	88	120		VN.. 1604..

Ordering example: 1 piece HSK-T63-DVMNL-16

VN.. 1604..	M3x7-09IP/10003007	U-VN1603-D	S-09IP-T	SET-01L-D

DCMNL12+DDMNL15



HSK	Type, description	K ₁ [°]	K ₂ [°]	f [mm]	l ₁ [mm]	d ₁ [mm]	h [mm]	
T63	HSK-T63-DCMNL12+DDMNL15	50	48	0,5	115	53	20	CN.. 1204.. DN.. 1506..
T100	HSK-T100-DCMNL12+DDMNL15	50	48	0,5	150	88	20	CN.. 1204.. DN.. 1506..

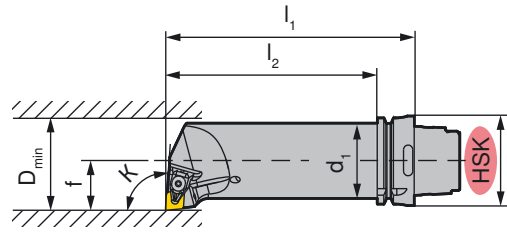
Ordering example: 1 piece HSK-T63-DCMNL12+DDMNL15


CN.. 1204.. DN.. 1506..	M4,5x12-15IP/10002887 M4,5x12-15IP/10002887	U-CN12T3-D U-DN15T3-D	S-15IP-T S-15IP-T	SET-02-D SET-02-D

HSK-T

Boring bars for negative inserts

DCLN..

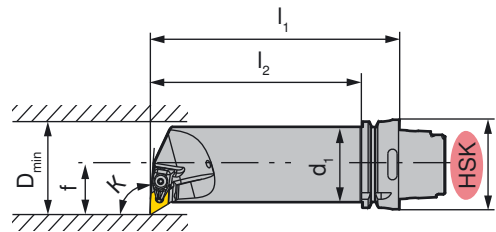



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-50Q-DCLNL-12	95	35	175	149	50	63	CN.. 1204..
T63	HSK-T63-50Q-DCLNR-12	95	35	175	149	50	63	CN.. 1204..

Ordering example: 1 piece HSK-T63-50Q-DCLNL-12






				
CN.. 1204..	M4,5x12-15IP/10002887	U-CN12T3-D	S-15IP-T	SET-02-D

DDUN..



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-50Q-DDUNL-15	93	35	175	149	50	63	DN.. 1506..
T63	HSK-T63-50Q-DDUNR-15	93	35	175	149	50	63	DN.. 1506..

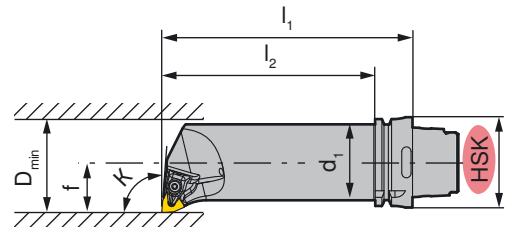
Ordering example: 1 piece HSK-T63-50Q-DDUNL-15

				
DN.. 1506..	M4,5x12-15IP/10002887	U-DN15T3-D	S-15IP-T	SET-02-D

HSK-T

Boring bars for negative inserts

DWLN..



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-50Q-DWLN-08	95	35	175	149	50	63	WN.. 0804..
T63	HSK-T63-50Q-DWLN-08	95	35	175	149	50	63	WN.. 0804..

Ordering example: 1 piece HSK-T63-50Q-DWLN-15

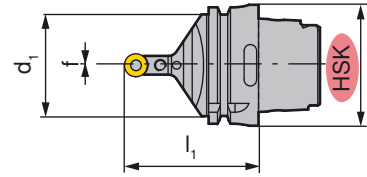
WN.. 0804..	M4,5x12-15IP/10002887	U-WN08T3-D	S-15IP-T	SET-02-D



HSK-T

Turning heads for positive inserts

PRDCN

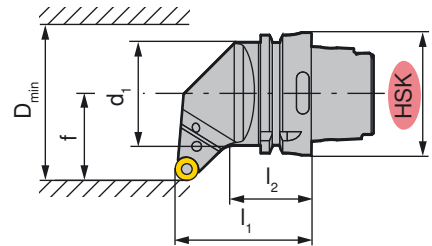


HSK	Type, description	f [mm]	l ₁ [mm]	d ₁ [mm]					
T63	HSK-T63-PRDCN-12	0	70	53					RC.. 1204MO
T100	HSK-T100-PRDCN-12	0	80	88					RC.. 1204MO
T100	HSK-T100-PRDCN-16	0	80	88					RC.. 1606MO

Ordering example: 1 piece HSK-T63-PRDCN-12

							Set
RC.. 1204MO	H 000341/H	U 000351/U	S 018420/S ISK 2,5MM	R 018463/R	M 018470/MO	7882201/SW 2,5	7853416/SORT
RC.. 1606MO	H 000342/H	U 000352/U	S 000433/S	R 000467/R	M 018471/MO	7882202/SW 3	7853417/SORT

PRSC.



HSK	Type, description	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]			
T63	HSK-T63-PRSC-12	45	70	44	53	100			RC.. 1204MO
T63	HSK-T63-PRSCR-12	45	70	44	53	100			RC.. 1204MO
T100	HSK-T100-PRSC-12	55	80	57	88	106			RC.. 1204MO
T100	HSK-T100-PRSCR-12	55	80	57	88	106			RC.. 1204MO
T100	HSK-T100-PRSC-16	55	80	55	88	125			RC.. 1606MO
T100	HSK-T100-PRSCR-16	55	80	55	88	125			RC.. 1606MO

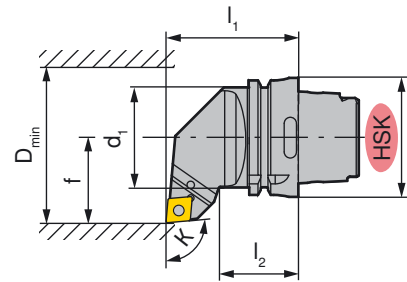
Ordering example: 1 piece HSK-T63-PRSC-12


							Set
RC.. 1204MO	H 000341/H	U 000351/U	S 018420/S ISK 2,5MM	R 018463/R	M 018470/MO	7882201/SW 2,5	7853416/SORT
RC.. 1606MO	H 000342/H	U 000352/U	S 000433/S	R 000467/R	M 018471/MO	7882202/SW 3	7853417/SORT

HSK-T






Turning heads for positive inserts

SCLC.

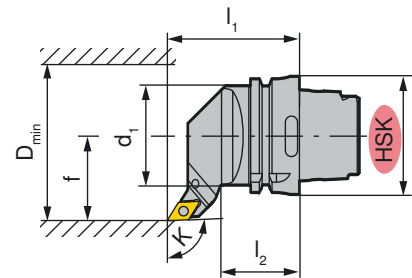



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-SCLCL-12	95	45	70	42	53	100	CC.. 1204..
T63	HSK-T63-SCLCR-12	95	45	70	42	53	100	CC.. 1204..

Ordering example: 1 piece HSK-T63-SCLCL-12






					Set
CC.. 1204..	7883202/M4,5X12/T15	7883002/HM-U	7883101/B M 4,5	7883301/KOMBI T15	7883901/SORT

SDJC.



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-SDJCL-11	93	45	70	42	53	100	DC.. 11T3..
T63	HSK-T63-SDJCR-11	93	45	70	42	53	100	DC.. 11T3..

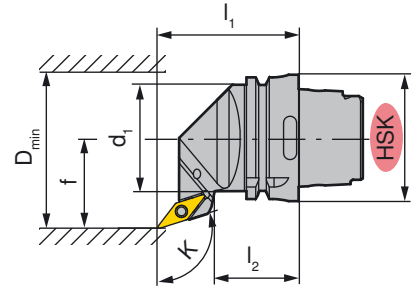
Ordering example: 1 piece HSK-T63-SDJCL-11


					Set
DC.. 11T3..	7815102/M3,5X11,0/T15	7815000/HM-U	7883102/B M 3,5	7883301/KOMBI T15	7815900/SORT

HSK-T






Turning heads for positive inserts

SVHC.

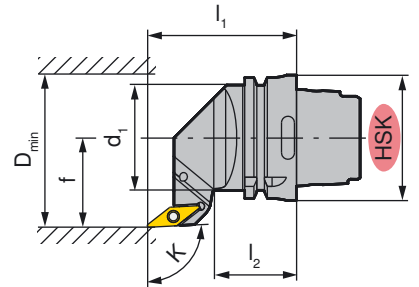



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-SVHCL-16	107,5	45	70	42	53	100		VC.. 1604..
T63	HSK-T63-SVHCR-16	107,5	45	70	42	53	100		VC.. 1604..

Ordering example: 1 piece HSK-T63-SVHCL-16






					Set
VC.. 1604..	7815102/M3,5X11,0/T15	7815002/HM-U	7883102/B M 3,5	7883301/KOMBI T15	7815901/SORT

SVJC.



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-SVJCL-16	93	45	75	42	53	100		VC.. 1604..
T63	HSK-T63-SVJCR-16	93	45	75	42	53	100		VC.. 1604..

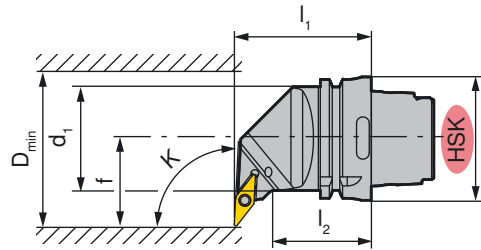
Ordering example: 1 piece HSK-T63-SVJCL-16


					Set
VC.. 1604..	7815102/M3,5X11,0/T15	7815002/HM-U	7883102/B M 3,5	7883301/KOMBI T15	7815901/SORT

HSK-T






Turning heads for positive inserts

SVUC.

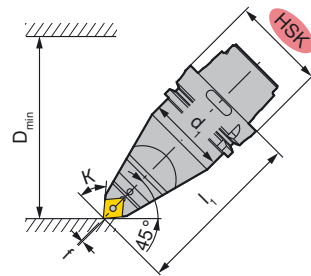



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-SVUCL-16	93	45	70	42	53	100		VC.. 1604..
T63	HSK-T63-SVUCR-16	93	45	70	42	53	100		VC.. 1604..

Ordering example: 1 piece HSK-T63-SVUCL-16






					Set
VC.. 1604..	7815102/M3,5X11,0/T15	7815002/HM-U	7883102/B M 3,5	7883301/KOMBI T15	7815901/SORT

SCMCN



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-SCMCN-12	50	0	115	53	110		CC.. 1204..

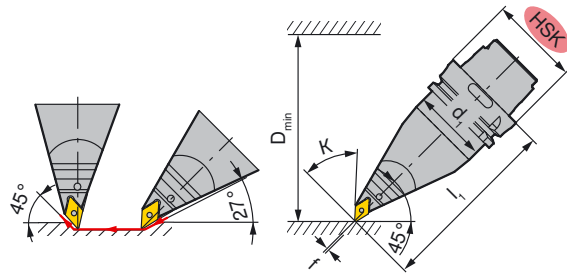
Ordering example: 1 piece HSK-T63-SCMCN-12


					Set
CC.. 1204..	7883202/M4,5X12/T15	7883002/HM-U	7883101/B M 4,5	7883301/KOMBI T15	7883901/SORT

HSK-T






Turning heads for positive inserts

SDMCL

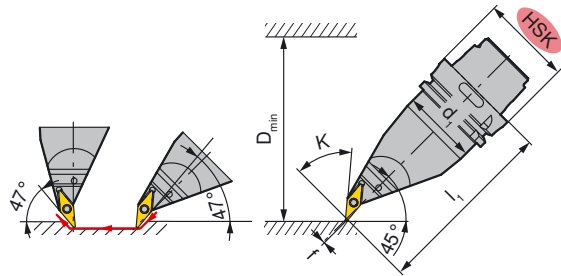



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	d ₁ [mm]	D _{min} [mm]			
T63	HSK-T63-SDMCL-11	48	0	130	53	110			DC..11T3..

Ordering example: 1 piece HSK-T63-SDMCL-11






					Set
DC..11T3..	7815102/M3,5X11,0/T15	7815000/HM-U	7883102/B M 3,5	7883301/KOMBI T15	7815900/SORT

SVMCL



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	d ₁ [mm]	D _{min} [mm]			
T63	HSK-T63-SVMCL-16	50	0	130	53	110			VC.. 1604..

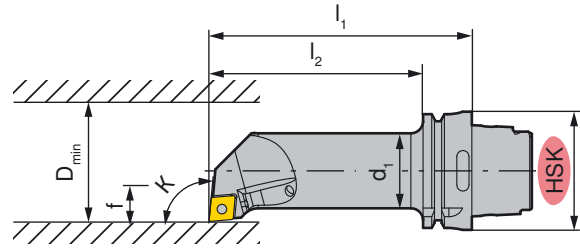
Ordering example: 1 piece HSK-T63-SVMCL-16


					Set
VC.. 1604..	7815102/M3,5X11,0/T15	7815002/HM-U	7883102/B M 3,5	7883301/KOMBI T15	7815901/SORT

HSK-T






Boring bars for positive inserts

SCLC.

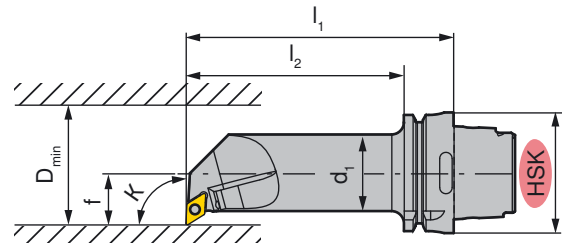



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-40L-SCLCL-12	95	27	140	114	40	50	CC.. 1204..
T63	HSK-T63-40L-SCLCR-12	95	27	140	114	40	50	CC.. 1204..

Ordering example: 1 piece HSK-T63-40L-SCLCL-12






					Set
CC.. 1204..	7883202/M4, 5X12/T15	7883002/HM-U	7883101/B M 4,5	7883301/KOMBI T15	7883901/SORT

SDUC.



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]	
T63	HSK-T63-40L-SDUCL-11	93	27	140	114	40	50	DC..11T3..
T63	HSK-T63-40L-SDUCR-11	93	27	140	114	40	50	DC..11T3..

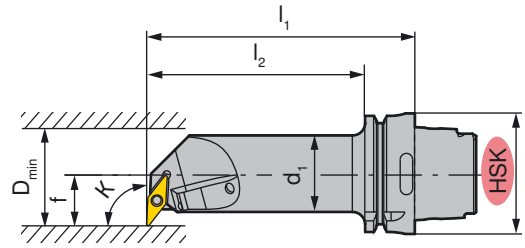
Ordering example: 1 piece HSK-T63-40L-SDUCL-11


					Set
DC..11T3..	7815102/M3,5X11,0/T15	7815000/HM-U	7883102/B M 3,5	7883301/KOMBI T15	7815900/SORT

HSK-T






Boring bars for positive inserts

SVUC.



HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min} [mm]		
T63	HSK-T63-40L-SVUCL-16	93	27	140	114	40	50		VC.. 1604..
T63	HSK-T63-40L-SVUCR-16	93	27	140	114	40	50		VC.. 1604..

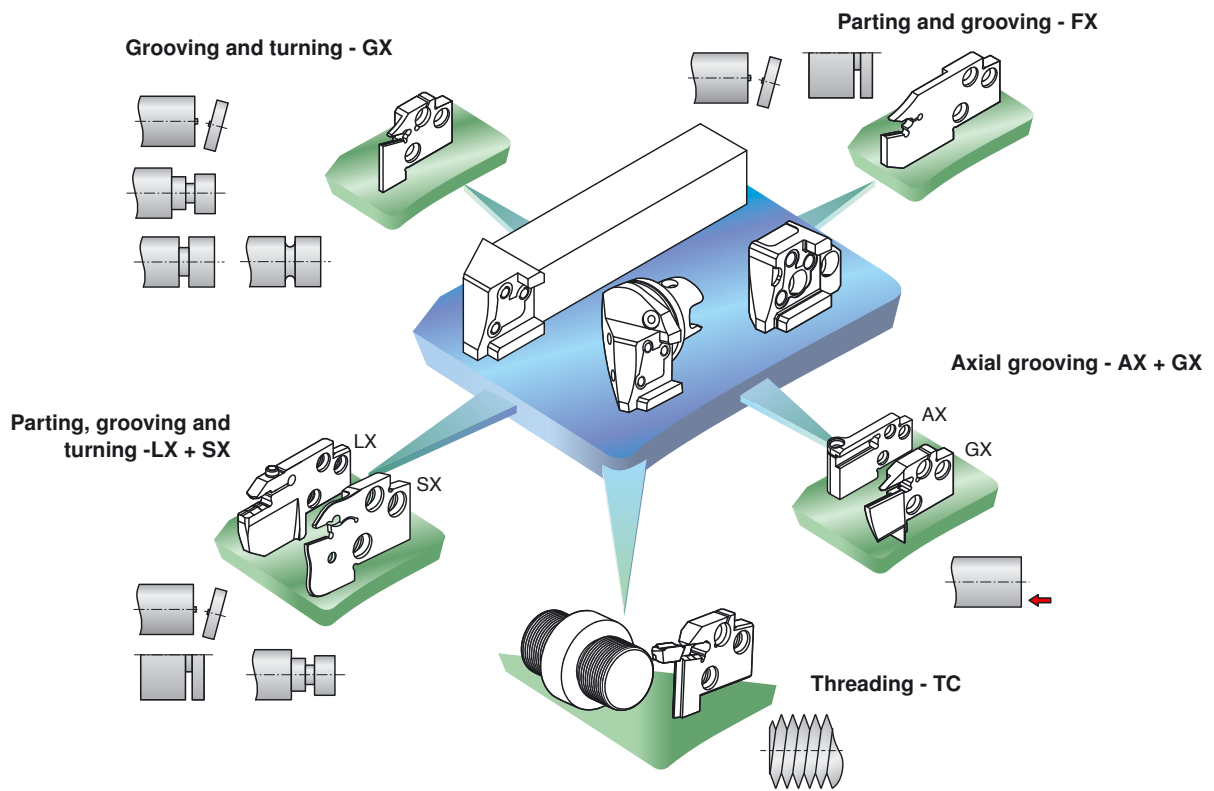
Ordering example: 1 piece HSK-T63-40L-SVUCL-16

					Set
VC.. 1604..	7815102/M3,5X11,0/T15	7815002/HM-U	7883102/B M 3,5	7883301/KOMBI T15	7815901/SORT



Parting and grooving

MSS - the modular parting and grooving system



MSS

see catalogue No. 148
'MSS - The modular parting, grooving and threading system'



MaxiClick

see catalogue No. 294
'The new parting & grooving system for small cutting widths'



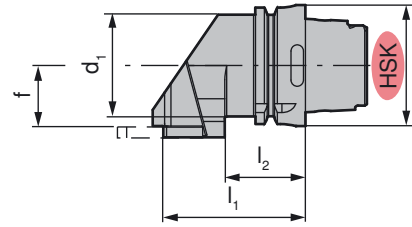
MSS SX

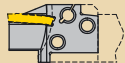
see catalogue No. 373
'MSS-SX'

HSK-T

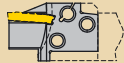


MSS tool heads for parting, grooving and threading

E32.00

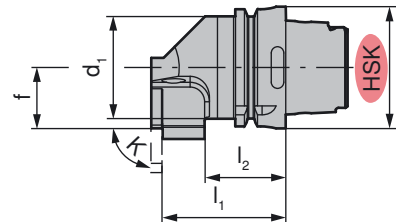


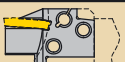
HSK	Type, description	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]				
T63	HSK-T63-MSS-E32L00	38,7	74	42	53				MSS-E32L...
T63	HSK-T63-MSS-E32R00	38,7	74	42	53				MSS-E32R...
T100	HSK-T100-MSS-E32L00	48,7	77	45	88				MSS-E32L...
T100	HSK-T100-MSS-E32R00	48,7	77	45	88				MSS-E32R...

Ordering example: 1 piece HSK-T63-MSS-E32L00


			
MSS-E32...	7897206/M6,0X20/T25	7883304/TORX T25 T	7896944/SD 12X8

E32.90



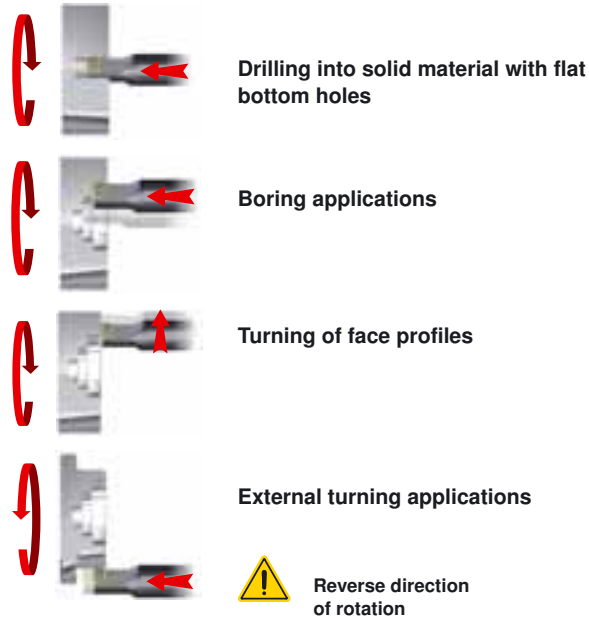
HSK	Type, description	K [°]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]			
T63	HSK-T63-MSS-E32L90	90	31,5	63,7	42	53			MSS-E32R...
T63	HSK-T63-MSS-E32R90	90	31,5	63,7	42	53			MSS-E32L...
T100	HSK-T100-MSS-E32L90	90	50	73,7	45	88			MSS-E32R...
T100	HSK-T100-MSS-E32R90	90	50	73,7	45	88			MSS-E32L...

Ordering example: 1 piece HSK-T63-MSS-E32L90

			
MSS-E32...	7897206/M6,0X20/T25	7883304/TORX T25 T	7896944/SD 12X8

Multi-function tools

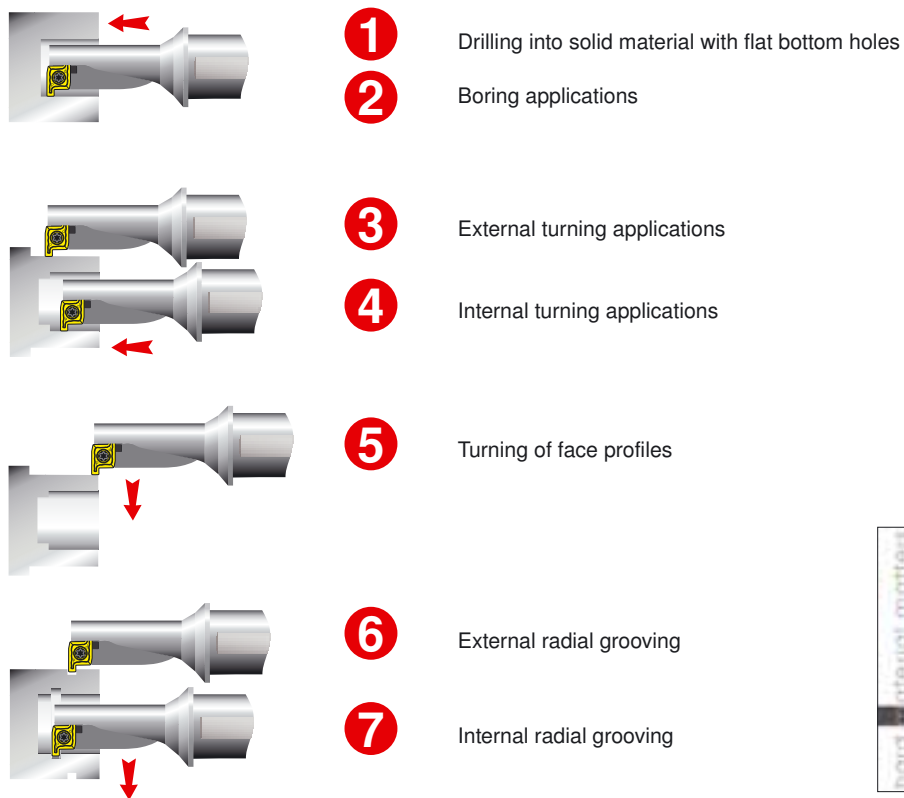
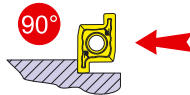
EcoCut - drilling and turning



Program see catalogue No. 181
'EcoCut - Drilling and turning with only one tool'

ProfileMaster - drilling, turning, parting and grooving

Machining methods – radial application

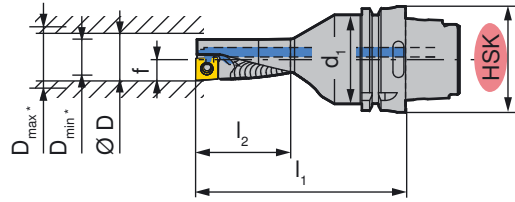



See catalogue No. 241
'ProfileMaster has totally redefined the machining process'

HSK-T

EcoCut - multi-function tools




EC.



HSK	Type, description	D [mm]	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]	D _{min*} [mm]	D _{max*} [mm]	
T63	HSK-T63-EC-25L-2.25D 13	25	12,5	125	56,5	53	24,8	25,8	XC.. 1304..
T63	HSK-T63-EC-25R-2.25D 13	25	12,5	125	56,5	53	24,8	25,8	XC.. 1304..
T63	HSK-T63-EC-32L-2.25D 17	32	16	125	72	53	31,8	33,0	XC.. 1705..
T63	HSK-T63-EC-32R-2.25D 17	32	16	125	72	53	31,8	33,0	XC.. 1705..

Ordering example: 1 piece HSK-T63-EC-25L-2.25D 13

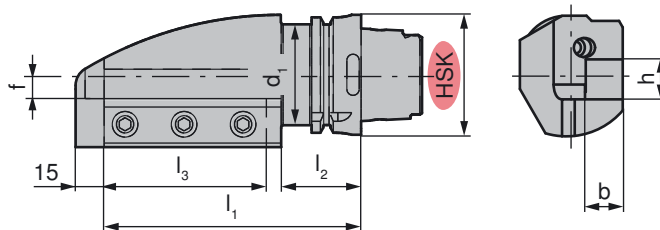
*) Thanks to their special construction; with EcoCut tools off-centre drilling is possible. In this way a hole of diameter from D_{min} to D_{max} can be drilled into solid material.

			Set
XC.. 1304..	7822114/M4,5X10,5/T20	7724104/TORX T20	7815925/SET 2-M4,5X10,5/T20 EC25+EC32
XC.. 1705..	7822114/M4,5X10,5/T20	7724104/TORX T20	7815925/SET 2-M4,5X10,5/T20 EC25+EC32





HSK-T Tool holders

SH.00

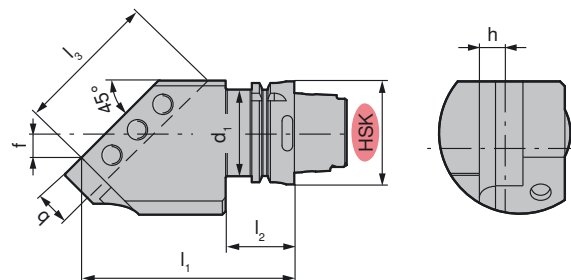


HSK	Type, description	f [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	d ₁ [mm]		b x h [mm]
T63	HSK-T63-SHL00-2525	13	135	42	85,5	53		25 x 25
T63	HSK-T63-SHR00-2525	13	135	42	85,5	53		25 x 25
T100	HSK-T100-SHL00-3232	15	145	45	87,5	88		32 x 32
T100	HSK-T100-SHR00-3232	15	145	45	87,5	88		32 x 32

Ordering example: 1 piece HSK-T63-SHL00-2525



b x h [mm]		
25 x 25	7896982/M12X1.75X25-DIN913	7896944/SD 12X8
32 x 32	7896982/M12X1.75X25-DIN913	7896944/SD 12X8

SH.45



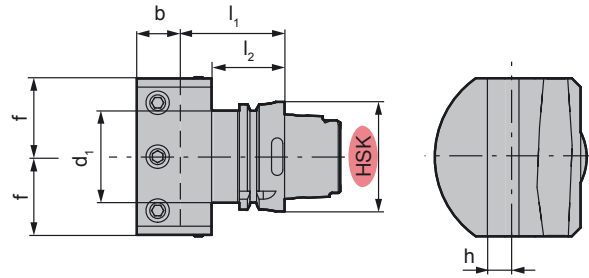
HSK	Type, description	f [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	d ₁ [mm]		b x h [mm]
T63	HSK-T63-SHL45-2525	15	130	42	91	53		25 x 25
T63	HSK-T63-SHR45-2525	15	130	42	91	53		25 x 25
T100	HSK-T100-SHL45-3232	20	160	45	130	88		32 x 32
T100	HSK-T100-SHR45-3232	20	160	45	130	88		32 x 32

Ordering example: 1 piece HSK-T63-SHL45-2525

b x h [mm]		
25 x 25	7896982/M12X1.75X25-DIN913	7896944/SD 12X8
32 x 32	7896982/M12X1.75X25-DIN913	7896944/SD 12X8



HSK-T Tool holders

SHN90

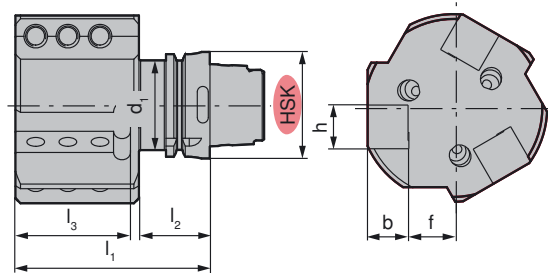


HSK	Type, description	f [mm]	l ₁ [mm]	l ₂ [mm]	d ₁ [mm]			b x h [mm]
T63	HSK-T63-SHN90-2525	45	60	42	53			25 x 25
T100	HSK-T100-SHN90-3232	50	58	45	88			32 x 32

Ordering example: 1 piece HSK-T63-SHN90-2525



b x h [mm]		
25 x 25	7896982/M12X1.75X25-DIN913	7896918/SD 10X7
32 x 32	7896982/M12X1.75X25-DIN913	7896944/SD 12X8

SH3L00



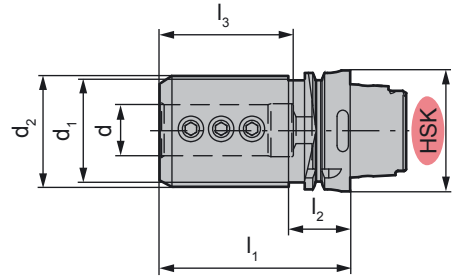
HSK	Type, description	f [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	d ₁ [mm]		b x h [mm]
T63	HSK-T63-SH3L00-2525	28	115	42	68	53		25 x 25
T100	HSK-T100-SH3L00-2525	33	120	45	70	88		25 x 25

Ordering example: 1 piece HSK-T63-SH3L00-2525

b x h [mm]		
25 x 25	7896982/M12X1.75X25-DIN913	7896944/SD 12X8


HSK-T Tool holders

BH.



HSK	Type, description	d ₁ [mm]	d ₂ [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]			d [mm]
T63	HSK-T63-BH08-80		32	80		41			08
T63	HSK-T63-BH10-80		40	80		41			10
T63	HSK-T63-BH12-80		40	80		41			12
T63	HSK-T63-BH16-80		40	80		51			16
T63	HSK-T63-BH20-80		50	80		51			20
T63	HSK-T63-BH25-90		53	90		61			25
T63	HSK-T63-BH32-95	53	68	95	42	61			32
T100	HSK-T100-BH20-90		55	90		56			20
T100	HSK-T100-BH25-95		55	95		61			25
T100	HSK-T100-BH32-110		68	110		61			32
T100	HSK-T100-BH40-120		83	120		81			40
T100	HSK-T100-BH50-125	88	98	125	45	91			50

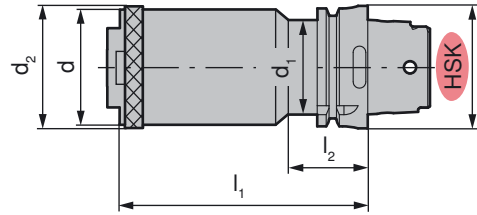
Ordering example: 1 piece HSK-T63-BH08-80

Ø d [mm]		
08		83950186/M6x12
10		83950186/M6x12
12		83950190/M8x16
16		83950189/M8x12
20		83950224/M10x16
25		83950224/M10x16
32		83950197/M12x20
40		83950197/M12x20
50		83950197/M12x20

HSK-T

Extensions, reducers and adapters

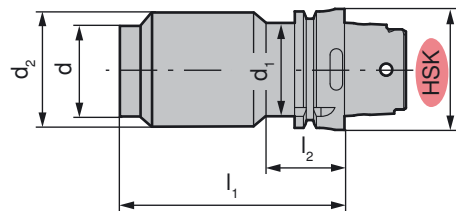
V.
R.



HSK	Type, description	d ₁ [mm]	d ₂ [mm]	l ₁ [mm]	l ₂ [mm]				d
T63	HSK-T63-V80	53	68	80	42				HSK-T63
T63	HSK-T63-V120	53	68	120	42				HSK-T63
T100	HSK-T100-V120	88	105	120	45				HSK-T100
T100	HSK-T100-R63-100		68	100					HSK-T63

Ordering example: 1 piece HSK-T63-V80

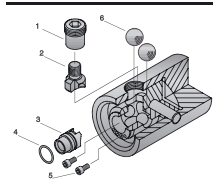
UT.



HSK	Type, description	d ₁ [mm]	d ₂ [mm]	l ₁ [mm]	l ₂ [mm]				d
T63	HSK-T63-UT40-80		48	80					UT40
T63	HSK-T63-UT50-95	53	58	95	42				UT50
T63	HSK-T63-UT63-105	53	72	105	42				UT63
T100	HSK-T100-UT40-80		48	80					UT40
T100	HSK-T100-UT50-100		58	100					UT50
T100	HSK-T100-UT63-115		72	115					UT63

Ordering example: 1 piece HSK-T63-UT40-80

UT set



Ø d		
UT40	7896935/SET-UT40-3L	
UT50	7898600/SET-UT50-3L	
UT63	7899750/SET-UT63-3L	

HSK-A

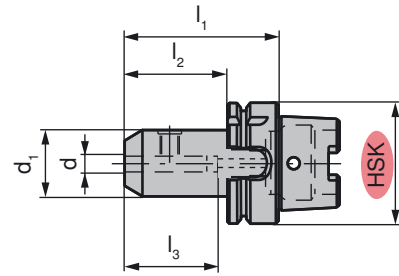
WE (Weldon) adapters

short



V = prebalanced,
 n_{max} 10.000

For tool shanks according to
 DIN 6535HB/1835B



HSK	Type, description	d ₁ [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	d H ₄ [mm]
A63	HSK63A-WE06-65-V	25	65	39	40	6
A63	HSK63A-WE08-65-V	28	65	39	40	8
A63	HSK63A-WE10-65-V	35	65	39	45	10
A63	HSK63A-WE12-80-V	42	80	54	49	12
A63	HSK63A-WE14-80-V	44	80	54	49	14
A63	HSK63A-WE16-80-V	48	80	54	52	16
A63	HSK63A-WE18-80-V	50	80	54	52	18
A63	HSK63A-WE20-80-V	52	80	54	54	20
A63	HSK63A-WE25-110-V	65	110	84	59	25
A63	HSK63A-WE32-110-V	72	110	84	63	32
A100	HSK100A-WE06-80-V	25	80	51	40	6
A100	HSK100A-WE08-80-V	28	80	51	40	8
A100	HSK100A-WE10-80-V	35	80	51	45	10
A100	HSK100A-WE12-80-V	42	80	51	49	12
A100	HSK100A-WE14-80-V	44	80	51	49	14
A100	HSK100A-WE16-100-V	48	100	71	52	16
A100	HSK100A-WE18-100-V	50	100	71	52	18
A100	HSK100A-WE20-100-V	52	100	71	54	20
A100	HSK100A-WE25-100-V	65	100	71	59	25
A100	HSK100A-WE32-100-V	72	100	71	63	32

Ordering example: 1 piece HSK63A-WE06-65-V

d H ₄	Clamping screw to DIN 1835B
Ø 6 mm	62 950 006 (M6x10)
Ø 8 mm	62 950 008 (M8x10)
Ø 10 mm	62 950 010 (M10x12)
Ø 12 mm	62 950 012 (M12x16)
Ø 14 mm	62 950 012 (M12x16)
Ø 16 mm	62 950 016 (M14x16)
Ø 18 mm	62 950 016 (M14x16)
Ø 20 mm	62 950 020 (M16x16)
Ø 25 mm	62 950 025 (M18x2x20)
Ø 32 mm	62 950 032 (M20x2x20)

HSK-A

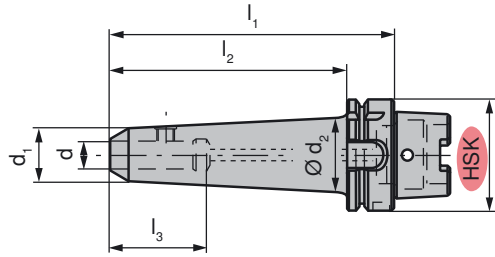
WE (Weldon) adapters

long



V = prebalanced,
 $n_{max.}$ 10.000

For tool shanks according to
DIN 6535HB/1835B



HSK	Type, description	d ₁ [mm]	d ₂ [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	d H ₄ [mm]
A63	HSK63A-WE06-160-V	22	33	160	134	40	6
A63	HSK63A-WE08-160-V	24	35	160	134	40	8
A63	HSK63A-WE10-160-V	25	39	160	134	45	10
A63	HSK63A-WE12-160-V	26	43	160	134	49	12
A63	HSK63A-WE14-160-V	28	44	160	134	49	14
A63	HSK63A-WE16-160-V	30	45	160	134	52	16
A63	HSK63A-WE18-160-V	32	46	160	134	52	18
A63	HSK63A-WE20-160-V	34	50	160	134	54	20
A63	HSK63A-WE25-160-V	65	65	160	134	59	25
A63	HSK63A-WE32-160-V	72	72	160	134	63	32
A100	HSK100A-WE06-160-V	22	33	160	131	40	6
A100	HSK100A-WE08-160-V	24	35	160	131	40	8
A100	HSK100A-WE10-160-V	25	39	160	131	45	10
A100	HSK100A-WE12-160-V	26	43	160	131	49	12
A100	HSK100A-WE14-160-V	28	44	160	131	49	14
A100	HSK100A-WE16-160-V	30	45	160	131	52	16
A100	HSK100A-WE18-160-V	32	46	160	131	52	18
A100	HSK100A-WE20-160-V	34	50	160	131	54	20
A100	HSK100A-WE25-160-V	65	65	160	131	59	25
A100	HSK100A-WE32-160-V	72	72	160	131	63	32

Ordering example: 1 piece HSK63A-WE06-160-V

d H ₄	Clamping screw to DIN 1835B
Ø 6 mm	62 950 006 (M6x10)
Ø 8 mm	62 950 008 (M8x10)
Ø 10 mm	62 950 010 (M10x12)
Ø 12 mm	62 950 012 (M12x16)
Ø 14 mm	62 950 012 (M12x16)
Ø 16 mm	62 950 016 (M14x16)
Ø 18 mm	62 950 016 (M14x16)
Ø 20 mm	62 950 020 (M16x16)
Ø 25 mm	62 950 025 (M18x2x20)
Ø 32 mm	62 950 032 (M20x2x20)

HSK-A

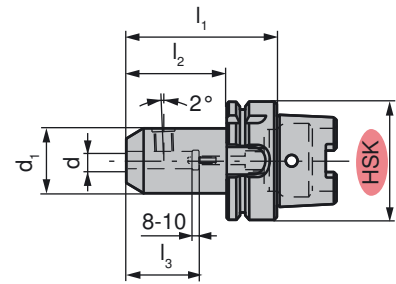
WN (Whistle Notch) adapters

short



V = prebalanced,
 $n_{max.}$ 10.000

For tool shanks according to
 DIN 6535HE/1835E



HSK	Type, description	d ₁ [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	d H ₄ [mm]
A63	HSK63A-WN06-80-V	25	80	54	36	6
A63	HSK63A-WN08-80-V	28	80	54	36	8
A63	HSK63A-WN10-80-V	35	80	54	40	10
A63	HSK63A-WN12-90-V	42	90	64	45	12
A63	HSK63A-WN14-90-V	44	90	64	45	14
A63	HSK63A-WN16-100-V	48	100	74	48	16
A63	HSK63A-WN18-100-V	50	100	74	48	18
A63	HSK63A-WN20-100-V	52	100	74	50	20
A63	HSK63A-WN25-110-V	65	110	84	56	25
A63	HSK63A-WN32-110-V	72	110	84	60	32
A100	HSK100A-WN06-90-V	25	90	61	36	6
A100	HSK100A-WN08-90-V	28	90	61	36	8
A100	HSK100A-WN10-90-V	35	90	61	40	10
A100	HSK100A-WN12-100-V	42	100	71	45	12
A100	HSK100A-WN14-100-V	44	100	71	45	14
A100	HSK100A-WN16-100-V	48	100	71	48	16
A100	HSK100A-WN18-100-V	50	100	71	48	18
A100	HSK100A-WN20-110-V	52	110	81	50	20
A100	HSK100A-WN25-120-V	65	120	91	56	25
A100	HSK100A-WN32-120-V	72	120	91	60	32

Ordering example: 1 piece HSK63A-WN06-80-V

d H ₄	Clamping screw to DIN 1835B	Adjustment screw
Ø 6 mm	62 950 006 (M6x10)	83 950 012 (M5x16)
Ø 8 mm	62 950 008 (M8x10)	83 950 039 (M6x16)
Ø 10 mm	62 950 010 (M10x12)	83 950 054 (M8x16)
Ø 12 mm	62 950 012 (M12x16)	83 950 045 (M10x16)
Ø 14 mm	62 950 012 (M12x16)	83 950 045 (M10x16)
Ø 16 mm	62 950 016 (M14x16)	83 950 042 (M12x18)
Ø 18 mm	62 950 016 (M14x16)	83 950 042 (M12x18)
Ø 20 mm	62 950 020 (M16x16)	83 950 042 (M12x18)
Ø 25 mm	62 950 025 (M18x2x20)	83 950 043 (M16x12)
Ø 32 mm	62 950 032 (M20x2x20)	83 950 043 (M16x12)

HSK-A

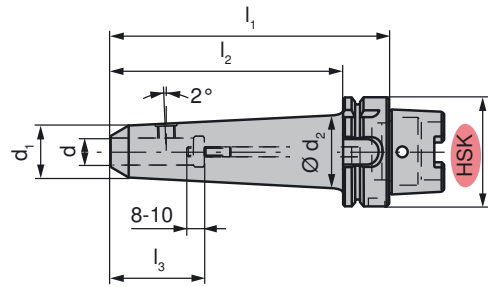
WN (Whistle Notch) adapters

long



V = prebalanced,
 $n_{max.}$ 10.000

For tool shanks according to
 DIN 6535HE/1835E



HSK	Type, description	d ₁ [mm]	d ₂ [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	d H ₄ [mm]
A63	HSK63A-WN06-160-V	22	33	160	134	37	6
A63	HSK63A-WN08-160-V	24	35	160	134	37	8
A63	HSK63A-WN10-160-V	25	39	160	134	41	10
A63	HSK63A-WN12-160-V	26	43	160	134	46	12
A63	HSK63A-WN14-160-V	28	44	160	134	46	14
A63	HSK63A-WN16-160-V	30	45	160	134	49	16
A63	HSK63A-WN18-160-V	32	46	160	134	49	18
A63	HSK63A-WN20-160-V	34	50	160	134	51	20
A63	HSK63A-WN25-160-V	65	65	160	134	57	25
A63	HSK63A-WN32-160-V	72	72	160	134	61	32
A100	HSK100A-WN06-160-V	22	33	160	131	37	6
A100	HSK100A-WN08-160-V	24	35	160	131	37	8
A100	HSK100A-WN10-160-V	25	39	160	131	41	10
A100	HSK100A-WN12-160-V	26	43	160	131	46	12
A100	HSK100A-WN14-160-V	28	44	160	131	46	14
A100	HSK100A-WN16-160-V	30	45	160	131	49	16
A100	HSK100A-WN18-160-V	32	46	160	131	49	18
A100	HSK100A-WN20-160-V	34	50	160	131	51	20
A100	HSK100A-WN25-160-V	65	65	160	131	57	25
A100	HSK100A-WN32-160-V	72	72	160	131	61	32

Ordering example: 1 piece HSK63A-WN06-160-V

d H ₄	Clamping screw to DIN 1835B	Adjustment screw
Ø 06 mm	62 950 006 (M6x10)	83 950 012 (M5x16)
Ø 08 mm	62 950 008 (M8x10)	83 950 039 (M6x16)
Ø 10 mm	62 950 010 (M10x12)	83 950 054 (M8x16)
Ø 12 mm	62 950 012 (M12x16)	83 950 045 (M10x16)
Ø 14 mm	62 950 012 (M12x16)	83 950 045 (M10x16)
Ø 16 mm	62 950 016 (M14x16)	83 950 042 (M12x18)
Ø 18 mm	62 950 016 (M14x16)	83 950 042 (M12x18)
Ø 20 mm	62 950 020 (M16x16)	83 950 042 (M12x18)
Ø 25 mm	62 950 025 (M18x2x20)	83 950 043 (M16x12)
Ø 32 mm	62 950 032 (M20x2x20)	83 950 043 (M16x12)

HSK-A

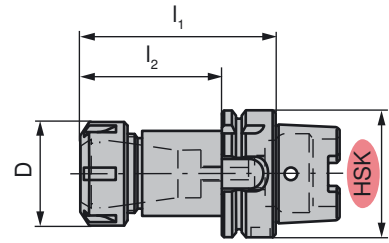
Collet chucks


ER.








V = prebalanced,
 $n_{max.}$ 10.000

For ER collets to DIN6499



HSK	Type, description	Clamping range	D [mm]	l ₁ [mm]	l ₂ [mm]	 DIN 6499-B form ER
A63	HSK63A-ER16-100-V	1,0 - 10	32	100	74	426 E (ER 16)
A63	HSK63A-ER16-160-V	1,0 - 10	32	160	134	426 E (ER 16)
A63	HSK63A-ER20-103-V	1,0 - 13	35	103	77	428 E (ER 20)
A63	HSK63A-ER25-103-V	1,0 - 16	42	103	77	430 E (ER 25)
A63	HSK63A-ER25-160-V	1,0 - 16	42	160	134	430 E (ER 25)
A63	HSK63A-ER32-103-V	2,0 - 20	50	103	77	470 E (ER 32)
A63	HSK63A-ER40-120-V	4,0 - 26	63	120	94	472 E (ER 40)
A100	HSK100A-ER16-100-V	1,0 - 10	32	100	71	426 E (ER 16)
A100	HSK100A-ER16-160-V	1,0 - 10	32	160	131	426 E (ER 16)
A100	HSK100A-ER20-103-V	1,0 - 13	35	103	74	428 E (ER 20)
A100	HSK100A-ER25-103-V	1,0 - 16	42	103	74	430 E (ER 25)
A100	HSK100A-ER25-160-V	1,0 - 16	42	160	131	430 E (ER 25)
A100	HSK100A-ER32-103-V	2,0 - 20	50	103	74	470 E (ER 32)
A100	HSK100A-ER40-120-V	4,0 - 26	63	120	91	472 E (ER 40)

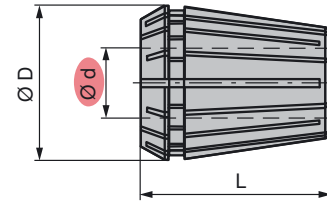
Ordering example: 1 piece HSK63A-ER16-100-V

 Collet size	 Lock nut	 Lock nut for sealing disc *	 Wrench	 Adjustment screw
426E (ER16)	SM-ER16 (M22x1,5)	SM-ER16D (M22x1,5)	SS-ER16	VS-ER16-K (M5x8)
428E (ER20)	SM-ER20 (M25x1,5)		SS-ER20	VS-ER20-K (M6x12)
430E (ER25)	SM-ER25 (M32x1,5)	SM-ER25D (M32x1,5)	SS-ER25	VS-ER25-K (M8x1x14)
470E (ER32)	SM-ER32 (M40x1,5)	SM-ER32D (M32x1,5)	SS-ER32	VS-ER32-K (M10x1x14)
472E (ER40)	SM-ER40 (M50x1,5)	SM-ER40D (M50x1,5)	SS-ER40	VS-ER40-K (M12x1x18)

* please order separately

Collets


ER-DIN6499



	426E (ER16) D = 17 mm L = 27,5 mm	428E (ER20) D = 20,9 mm L = 31,5 mm	430E (ER25) D = 25,9 mm L = 34 mm	470E (ER32) D = 32,85 mm L = 40 mm	472E (ER40) D = 40,85 mm L = 46 mm
Ø d [mm]	Type, description	Type, description	Type, description	Type, description	Type, description
1,0	426E-010 ¹⁾	428E-010			
1,5	426E-015	428E-015	430E-015		
2,0	426E-020 ¹⁾	428E-020	430E-020	470E-020	
2,5	426E-025	428E-025	430E-025	470E-025	
3,0	426E-030 ¹⁾	428E-030 ¹⁾	430E-030 ¹⁾	470E-030 ¹⁾	472E-030 ¹⁾
4,0	426E-040 ¹⁾	428E-040 ¹⁾	430E-040 ¹⁾	470E-040 ¹⁾	472E-040 ¹⁾
5,0	426E-050 ¹⁾	428E-050 ¹⁾	430E-050 ¹⁾	470E-050 ¹⁾	472E-050 ¹⁾
6,0	426E-060 ¹⁾	428E-060 ¹⁾	430E-060 ¹⁾	470E-060 ¹⁾	472E-060 ¹⁾
7,0	426E-070 ¹⁾	428E-070 ¹⁾	430E-070 ¹⁾	470E-070 ¹⁾	472E-070 ¹⁾
8,0	426E-080 ¹⁾	428E-080 ¹⁾	430E-080 ¹⁾	470E-080 ¹⁾	472E-080 ¹⁾
9,0	426E-090 ¹⁾	428E-090 ¹⁾	430E-090 ¹⁾	470E-090 ¹⁾	472E-090 ¹⁾
10,0	426E-100 ¹⁾	428E-100 ¹⁾	430E-100 ¹⁾	470E-100 ¹⁾	472E-100 ¹⁾
11,0		428E-110 ¹⁾	430E-110 ¹⁾	470E-110 ¹⁾	472E-110 ¹⁾
12,0		428E-120 ¹⁾	430E-120 ¹⁾	470E-120 ¹⁾	472E-120 ¹⁾
13,0		428E-130 ¹⁾	430E-130 ¹⁾	470E-130 ¹⁾	472E-130 ¹⁾
14,0			430E-140 ¹⁾	470E-140 ¹⁾	472E-140 ¹⁾
15,0			430E-150 ¹⁾	470E-150 ¹⁾	472E-150 ¹⁾
16,0			430E-160 ¹⁾	470E-160 ¹⁾	472E-160 ¹⁾
17,0				470E-170 ¹⁾	472E-170 ¹⁾
18,0				470E-180 ¹⁾	472E-180 ¹⁾
19,0				470E-190 ¹⁾	472E-190 ¹⁾
20,0				470E-200 ¹⁾	472E-200 ¹⁾
21,0					472E-210 ¹⁾
22,0					472E-220 ¹⁾
23,0					472E-230 ¹⁾
24,0					472E-240 ¹⁾
25,0					472E-250 ¹⁾
26,0					472E-260 ¹⁾

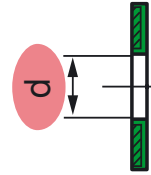
¹⁾ collets included in the set

Collet sets (in the wooden box)





	Set	426E-SET	428E-SET	430E-SET	470E-SET	472E-SET
	Contents	(10 pieces)	(11 pieces)	(14 pieces)	(18 pieces)	(24 pieces)

Sealing rings for ER collet chucks

DS.



For sealing when using tools with internal cooling.
Only with lock nut SM-ER..D.

d [mm]	 426E / (ER16)	 430E / (ER25)	 470E / (ER32)	 472E / (ER40)
	Type, description	Type, description	Type, description	Type, description
2,0	DS-426E-020	DS-430E-020	DS-470E-020	
2,5	DS-426E-025	DS-430E-025	DS-470E-025	
3,0	DS-426E-030	DS-430E-030	DS-470E-030	DS-472E-030
3,5	DS-426E-035	DS-430E-035	DS-470E-035	DS-472E-035
4,0	DS-426E-040	DS-430E-040	DS-470E-040	DS-472E-040
4,5	DS-426E-045	DS-430E-045	DS-470E-045	DS-472E-045
5,0	DS-426E-050	DS-430E-050	DS-470E-050	DS-472E-050
5,5	DS-426E-055	DS-430E-055	DS-470E-055	DS-472E-055
6,0	DS-426E-060	DS-430E-060	DS-470E-060	DS-472E-060
6,5	DS-426E-065	DS-430E-065	DS-470E-065	DS-472E-065
7,0	DS-426E-070	DS-430E-070	DS-470E-070	DS-472E-070
7,5	DS-426E-075	DS-430E-075	DS-470E-075	DS-472E-075
8,0	DS-426E-080	DS-430E-080	DS-470E-080	DS-472E-080
8,5	DS-426E-085	DS-430E-085	DS-470E-085	DS-472E-085
9,0	DS-426E-090	DS-430E-090	DS-470E-090	DS-472E-090
9,5	DS-426E-095	DS-430E-095	DS-470E-095	DS-472E-095
10,0	DS-426E-100	DS-430E-100	DS-470E-100	DS-472E-100
10,5		DS-430E-105	DS-470E-105	DS-472E-105
11,0		DS-430E-110	DS-470E-110	DS-472E-110
11,5		DS-430E-115	DS-470E-115	DS-472E-115
12,0		DS-430E-120	DS-470E-120	DS-472E-120
12,5		DS-430E-125	DS-470E-125	DS-472E-125
13,0		DS-430E-130	DS-470E-130	DS-472E-130
13,5		DS-430E-135	DS-470E-135	DS-472E-135
14,0		DS-430E-140	DS-470E-140	DS-472E-140
14,5		DS-430E-145	DS-470E-145	DS-472E-145

Ordering example: 1 piece DS-426E-020

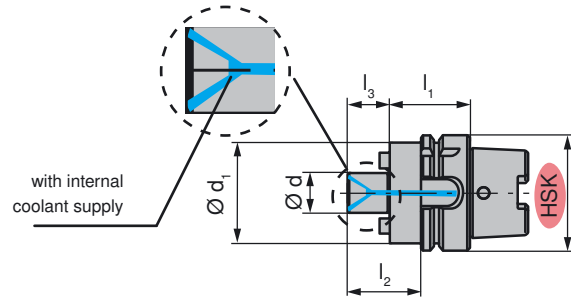
HSK-A

Shell mill adapters

QA.



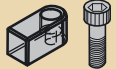



V = prebalanced,
 $\eta_{\max.}$ 10.000
 DIN 6385



HSK	Type, description	Ø d ₁ [mm]	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	Ø d h ₆ [mm]
A63	HSK63A-QA16-50-V	40	50	41	17	16
A63	HSK63A-QA22-50-V	50	50	43	19	22
A63	HSK63A-QA27-60-V	60	60	55	21	27
A63	HSK63A-QA32-60-V	78	60	58	24	32
A63	HSK63A-QA40-60-V	89	60	61	27	40
A100	HSK100A-QA16-50-V	40	50	38	17	16
A100	HSK100A-QA22-50-V	50	50	40	19	22
A100	HSK100A-QA27-50-V	60	50	42	21	27
A100	HSK100A-QA32-50-V	78	50	45	24	32
A100	HSK100A-QA40-60-V	89	60	58	27	40
A100	HSK100A-QA60-70-V	129	70	81	40	60

Ordering example: 1 piece HSK63A-QA16-50-V

Ø d h ₆	 DIN 912 Star bolts	 DIN 6367 Star bolts	 Drive dogs	 Tightening wrench
Ø 16 mm	7818123 (M8x25-12.9)		MS-QA16	
Ø 22 mm	7818124 (M10x25-12.9)		MS-QA22	
Ø 27 mm	7818125 (M12x30-12.9)		MS-QA27	
Ø 32 mm	7818126 (M16x35-12.9)		MS-QA32	
Ø 40 mm		83 367 040 (M20x30-12.9)		MS-QA40 83 368 140
Ø 50 mm		83 367 050 (M24x36-12.9)		MS-QA50 83 368 1540
Ø 60 mm	83950160 (M16x45-12.9)			MS-QA60

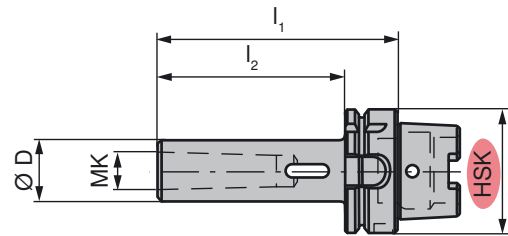
HSK-A

Morse taper adapters

MK.D.



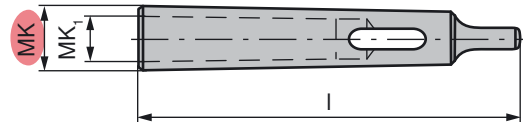
DIN 228



HSK	Type, description	Ø D [mm]	l ₁ [mm]	l ₂ [mm]	MK [mm]
A63	HSK63A-MK1D-100	25	100	74	1
A63	HSK63A-MK2D-120	32	120	94	2
A63	HSK63A-MK3D-140	40	140	114	3
A63	HSK63A-MK4D-160	48	160	134	4
A100	HSK100A-MK1D-110	25	110	81	1
A100	HSK100A-MK2D-120	32	120	91	2
A100	HSK100A-MK3D-150	40	150	121	3
A100	HSK100A-MK4D-170	48	170	141	4
A100	HSK100A-MK5D-200	63	200	171	5

Ordering example: 1 piece HSK63A-MK1D-100

MT reducing sleeves

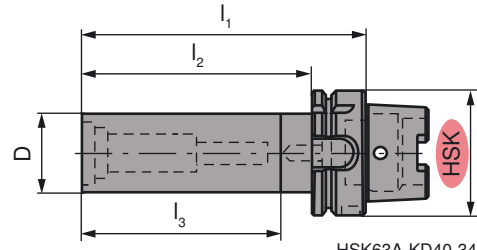
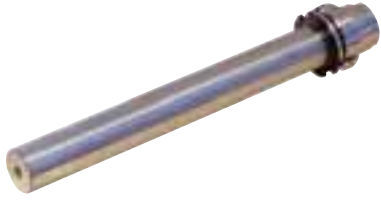


MK [outer]	Type, description	MK ₁ [inner]	l [mm]
1	MK1-MK0-80	0	80
2	MK2-MK1-92	1	92
3	MK3-MK2-112	2	112
3	MK3-MK1-99	1	99
4	MK4-MK3-140	3	140
4	MK4-MK2-124	2	124
4	MK4-MK1-124	1	124
5	MK5-MK4-171	4	171
5	MK5-MK3-156	3	156
5	MK5-MK2-156	2	156

Ordering example: 1 piece MK1-MK0-80

HSK-A Test bars

KD.

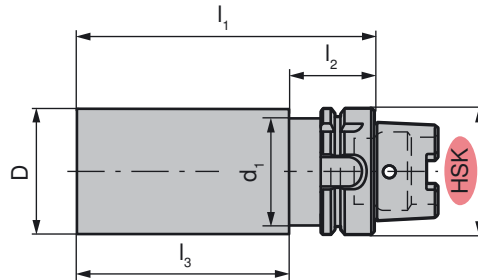


HSK63A-KD40-346

HSK	Type, description	D [mm]	l ₁ [mm]	l ₂ [mm]	Working length l ₃ [mm]
A63	HSK63A-KD40-346	40	346	320	300
A100	HSK100A-KD40-349	40	349	320	300

Ordering example: 1 piece HSK63A-KD40-346

Blanks

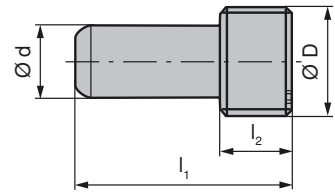


HSK	Type, description	D ^{+0.5} [mm]	l ₁ [mm]	d ₁ [mm]	l ₂ [mm]
T63	HSK-T63-HF90-90	90	90	53	42
T63	HSK-T63-HF72-210	72	210	53	42
T63	HSK-T63-HF100-150	100	150	53	42
T100	HSK-T100-HF110-100	110	100	88	45
T100	HSK-T100-HF100-250	100	250	88	45
T100	HSK-T100-HF120-160	120	160	88	45
A63	HSK63A-HF63-200	63	200	53	174
A100	HSK100A-HF100-250	100	250	85	221

Ordering example: 1 piece HSK-T63-HF90-90

Accessories

HSK coolant connector



HSK	Type, description	Ø D [mm]	Ø d [mm]	l ₁ [mm]	l ₂ [mm]
63	KMS-HSK63	M18,0x1,0	12,0	36,6	11,5
100	KMS-HSK100	M24,0x1,5	16,0	44,0	15,5

Ordering example: 1 piece KMS-HSK63

Coolant connector wrench



HSK	Type, description
63	SS-KMS-HSK-63
100	SS-KMS-HSK-100

Ordering example: 1 piece SS-KMS-HSK-63

HSK taper wiper



HSK	Type, description
63	KW-HSK-63
100	KW-HSK-100

Ordering example: 1 piece KW-HSK-63

Mounting unit



HSK	Type, description	L [mm]	B [mm]	H [mm]
63	DIN 69893A+C-MV.HSK63	276	110	155
100	DIN 69893A+C-MV.HSK100	276	110	155

Ordering example: 1 piece DIN 69893A+C-MV.HSK63

HSK-T

Clamping units for disk turrets

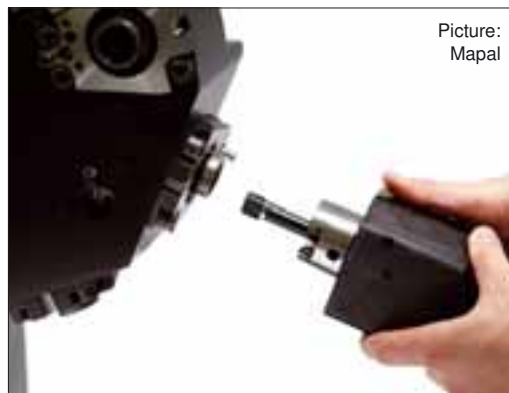
HSK-T can be integrated directly into the disk turret:

One set-up machines are frequently equipped with additional disk turrets. In the framework of the HSK-T study group (www.hsk-t.de), renowned manufacturers of tool clamping systems developed HSK-T clamping units and specialists in the field of turrets developed the respective turret disks. In this way it is possible also on disk turrets to apply both vertical and driven tools in all positions with HSK-T / -A dapters (no change of equipment of the turret disk is necessary).



Picture:
Mapal

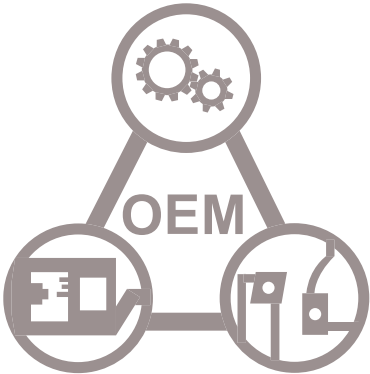
Turning tool



Picture:
Mapal

Driven tool head

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Standard applications, standard tools



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Milling



Parting and grooving



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Aerospace - aluminium



Wheel-set machining



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