

HSK-T 63

ISO 12164-3

EXTERNAL TURNING TOOL



MTEN



MTJN



MVLN



MCMN

EXTERNAL TURNING TOOL HOLDER



SF



SV



SN



SB



S

HSK-T

REFERENCE DETAILS

ISO 12164-3

Shank body standard: **ISO-12164-3:20008**

Taper tolerance < **AT3**

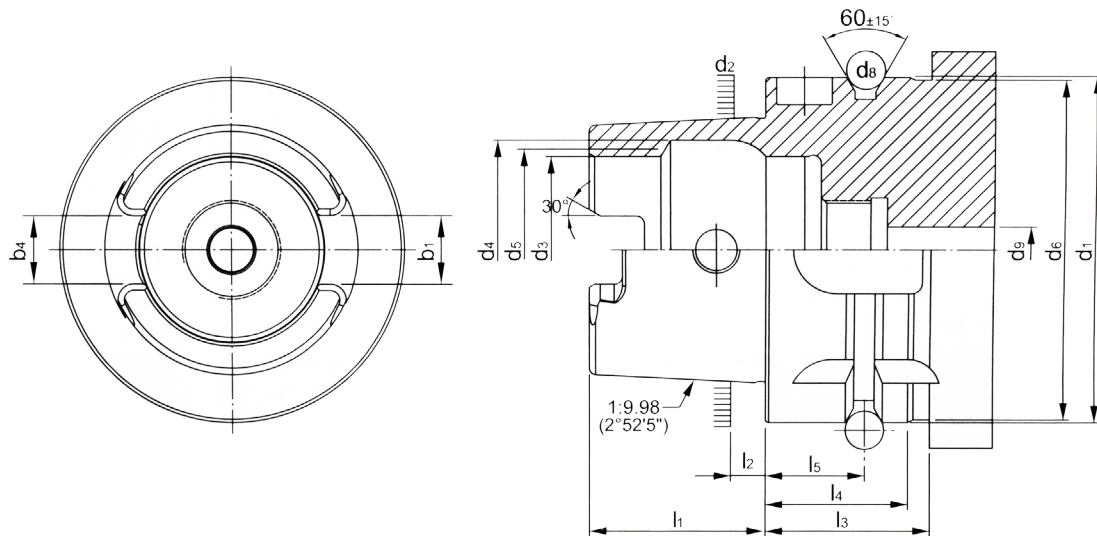
Hardness > **HRC 56°**

Roundness < **0.8 pm**

Surface roughness: **Ra < 0.25 pm**

Carbon depth > **0.8mm**

The shank has pre-balance at G6.3, and can provide precision balance at G2.5. It can be ordered by request.



FORM T

HSK	d h10	d2	d3 H10	d4 H11	d5	d6 max.	d8	d9 max.
32	32	24.007	17	20.5	19	31	4	4.2
40	40	30.007	21	25.5	23	39	4	5
50	50	38.009	26	32	29	49	7	6.8
63	63	48.010	34	40	37	62	7	8.4
80	80	60.012	42	50	46	79	7	10.2
100	100	75.013	53	63	58	99	7	12
HSK	l1 0 -0.2	l2	l3 min.	l4 0 -0.1	l5 ± 0.1	b1 +0.04 -0.04	b4	
32	16	3.2	23	20	16	7.05	6.932	+0.03 0
40	20	4	23	20	16	8.05	7.932	+0.03 0
50	25	5	30	26	18	10.54	10.425	+0.035 0
63	32	6.3	30	26	18	12.54	12.425	+0.035 0
80	40	8	30	26	18	16.04	15.93	+0.035 0
100	50	10	34	29	20	20.02	19.91	+0.035 0

CLAMP MECHANISM			
A	Back clamp system	M	Multi-clamp system
C	Clamp-on system	P	Pin lock system
D	Double clamp system	S	Screw-on system
E	Off-set pin system	T	Taper lock system
JS	Screw-on system	W	Wedge-on system
JT	Back clamp system		

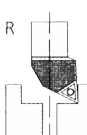
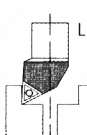
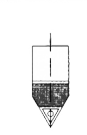
INSERT CLEARANCE	
	
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

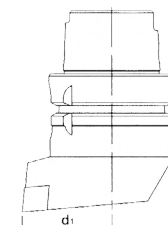
INSERT EDGE LENGTH					
Insert inscribed circle	6.35	7.94	9.525	12.00	12.70
 80°	06	08	09	-	12
 55°	07	-	11	-	15
 35°	11	-	16	-	-
	-	-	-	12	-
	11	13	16	-	22
	-	-	09	-	12

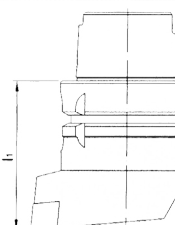
HSK - T63
-
M
-
C
-
L
-
N
-
R
-
45
-
065
-
12

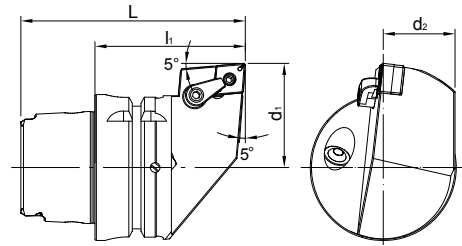
INSERT GEOMETRY		
C		80°
D		55°
K		55°
R		
S		
T		
V		35°
W		80°
L		
H		120°
A		85°
B		82°
E		75°
M		86°
O		135°
P		108°

CUTTING EDGE GEMOETRY			
A - 90°		M - 50°	
B - 75°		N - 63°	
C - 90°		P - 117.5°	
D - 45°		R - 75°	
E - 60°		S - 45°	
F - 90°		T - 60°	
G - 90°		U - 93°	
H - 107.5°		V - 72.5°	
J - 93°		W - 60°	
K - 75°		Y - 85°	
L - 95°			

HEAD




d ₁ DIMENSION


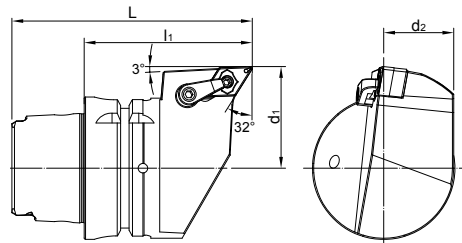
TOOL LENGTH, METRIC


MCLN EXTERNAL TURNING TOOL
MCLN


MODEL NO.	TYPE	L	l1	d1	d2	Insert	WEIGHT (KGS)
T63MCLNR4506512	HSK-T63-MCLNR-45065-12	97	65	45	31	CN..1204	1.26
T63MLCNL4506512	HSK-T63-MLCNL-45065-12	97	65	45	31	CN..1204	1.26

Accessory

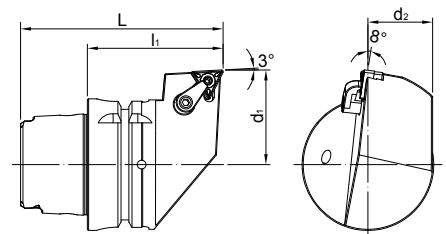
Clamp	Shim	Screw	Screw I
CL0205	SH0CM	SR0635	SR0465

MDJN EXTERNAL TURNING TOOL
MDJN


MODEL NO.	TYPE	L	l1	d1	d2	Insert	WEIGHT (KGS)
T63MDJNR4507515	HSK-T63-MDJNR-45075-15	97	65	45	31	CN..1204	1.26
T63MDJNL4507515	HSK-T63-MDJNL-45075-15	97	65	45	31	CN..1204	1.26

Accessory

Clamp	Shim	Screw	Screw I
CL0215	SH0DM	SR0635	SR0465

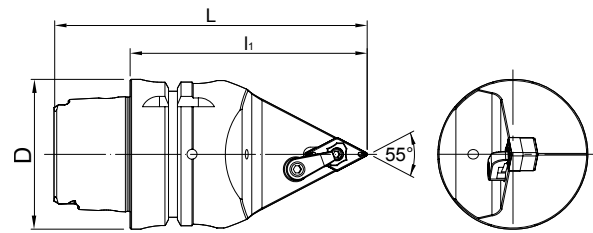
MTJN EXTERNAL TURNING TOOL
MTJN


MODEL NO.	TYPE	L	l1	d1	d2	Insert	WEIGHT (KGS)
T63MTJNR4506516	HSK-T63-MTJNR-45065-16	97	65	45	31	TN..1604	1.22
T63MTJNL4506516	HSK-T63-MTJNL-45065-16	97	65	45	31	TN..1604	1.22

Accessory

Clamp	Shim	Screw	Screw I
CL0205	SH0TM	SR0635	SR0345

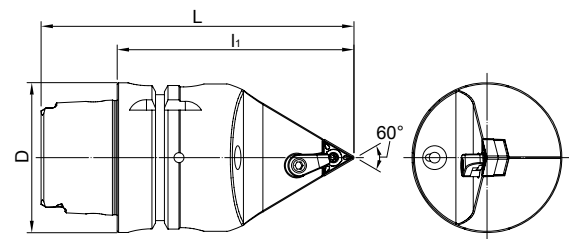
* HSK-T 100 are available on demand

MDNN EXTERNAL TURNING TOOL
MDNN


MODEL NO.	TYPE	L	l1	d1	d2	Insert	WEIGHT (KGS)
T63MDNNN0010015	HSK-T63-MDNNN-00100-15	132	100	63	DN..1504	1.55	1.26
T63MDNNN0014015	HSK-T63-MDNNN-00140-15	172	140	63	DN..1504	1.55	1.26

Accessory

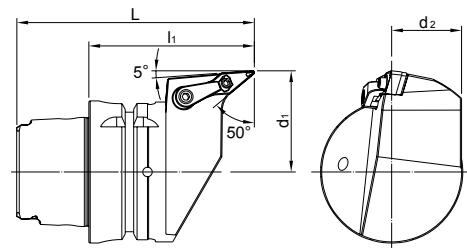
Clamp	Shim	Screw	Screw I
CL0215	DMS432	MS625	SR0465

MTEN EXTERNAL TURNING TOOL
MTEN


MODEL NO.	TYPE	L	l1	D	Insert	WEIGHT (KGS)
T63MTENN0010016	HSK-T63-MTENN-00100-16	132	100	63	TN..1604	1.62
T63MTENN0014016	HSK-T63-MTENN-00140-16	172	140	63	TN..1604	1.62

Accessory

Clamp	Shim	Screw	Screw I
CL0215	DMS432	MS625	SR0465

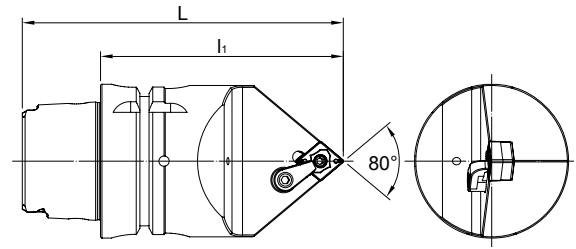
MVLN EXTERNAL TURNING TOOL
MVLN


MODEL NO.	TYPE	L	l1	d1	d2	Insert	WEIGHT (KGS)
T63MVLNR4507516	HSK-T63-MVLNR-45075-16	107	75	45	31	VN..1604	1.30
T63MVLNL4507516	HSK-T63-MVLNL-45075-16	107	75	45	31	VN..1604	1.30

Accessory

Clamp	Shim	Screw	Screw I
CL0215	SH0VM	SR0635	SR0345

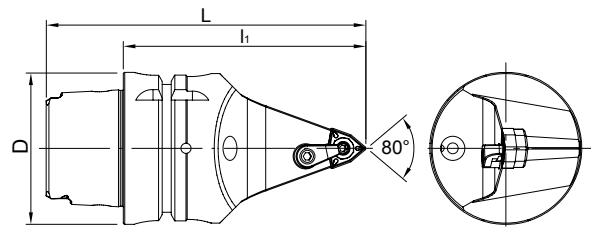
* HSK-T 100 are available on demand

MCMN EXTERNAL TURNING TOOL
MCMN


MODEL NO.	TYPE	L	h	Insert	WEIGHT (KGS)
T63MCMNN0010012	HSK-T63-MCMNN-00100-12	132	100	CN..1204	1.68
T63MCMNN0014012	HSK-T63-MCMNN-00140-12	172	140	CN..1204	1.68

Accessory

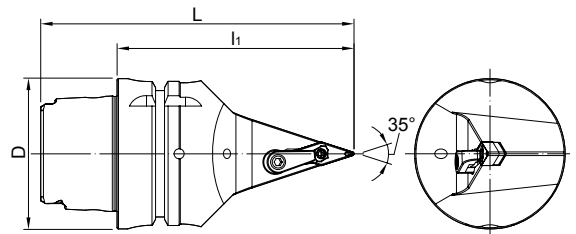
Clamp	Shim	Screw	Screw I
CL0215	SH0CM	MS620	SR0465

MWMN EXTERNAL TURNING TOOL
MWMN


MODEL NO.	TYPE	L	h	D	Insert	WEIGHT (KGS)
T63MWMNN0010008	HSK-T63-MWMNN-00100-08	132	100	63	WN..0804	1.48
T63MWMNN0014008	HSK-T63-MWMNN-00140-08	172	140	63	WN..0804	1.48

Accessory

Clamp	Shim	Screw	Screw I
CL0205	SH0WM	SR0635	SR0465

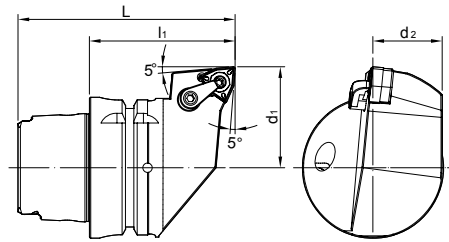
MVVN EXTERNAL TURNING TOOL
MVVN


MODEL NO.	TYPE	L	h	D	Insert	WEIGHT (KGS)
T63MVVNN0010016	HSK-T63-MVVNN-00100-16	132	100	63	VN..1604	1.40
T63MVVNN0014016	HSK-T63-MVVNN-00140-16	172	140	63	VN..1604	1.40

Accessory

Clamp	Shim	Screw	Screw I
CL0215	SH0VM	SR0635	SR0345

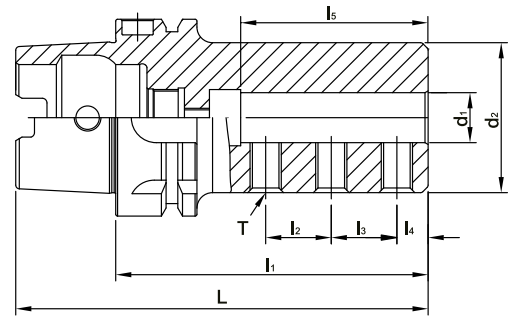
* HSK-T 100 are available on demand

MWLN EXTERNAL TURNING TOOL
MWLN


MODEL NO.	TYPE	L	h	d1	d2	Insert	WEIGHT (KGS)
T63MWLNR4506508	HSK-T63-MWLNR-45065-08	97	65	45	31	WN..0804	1.22
T63MWLNL4506508	HSK-T63-MWLNL-45065-08	97	65	45	31	WN..0804	1.22

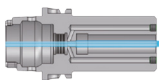
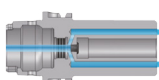
Accessory

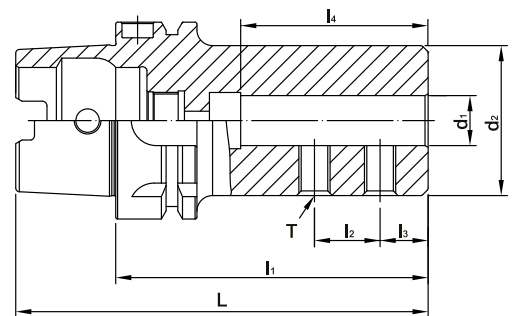
Clamp	Shim	Screw	Screw I
CL020S	SH0WM	SR063S	SR046S

SIDE LOCK HOLDER
SLT


MODEL NO.	TYPE	L	l1	l2	l3	l4	l5	d1	d2	T	WEIGHT (KGS)
T63SLT870	HSK-T63xSLT8-70	102	70	10	10	6	32	8	28	M6	0.93
T63SLT1080	HSK-T63xSLT10-80	112	80	12	12	8	40	10	35	M8	1.10
T63SLT1290	HSK-T63xSLT12-90	122	90	16	16	8	45	12	42	M8	1.36
T63SLT16100	HSK-T63xSLT16-100	132	100	21	21	10	60	16	48	M10	1.60
T63SLT20120	HSK-T63xSLT20-120	152	120	20	20	12	60	20	52	M10	2.03
T63SLT25140	HSK-T63xSLT25-140	172	140	23	23	14	67	25	56	M12	2.52
T63SLT32160	HSK-T63xSLT32-160	192	160	26	26	16	74	32	64	M12	3.34

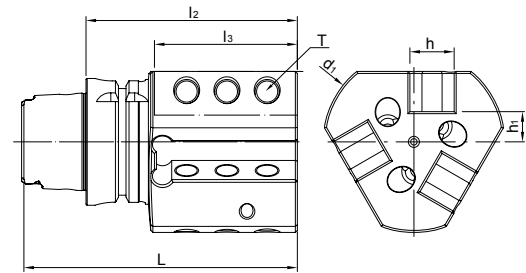
Use screws to change the coolant outlet from tool coolant hole or from tool holder

	MODEL NO.	TYPE
	SC0M4x0.7	SLT8
	SC0M5x0.8	SLT10
	SC0M6x1.0	SLT12, SLT16, SLT20
	SC0M8x1.25	SLT25, SLT32
	SC0SS68	M6x1.0P

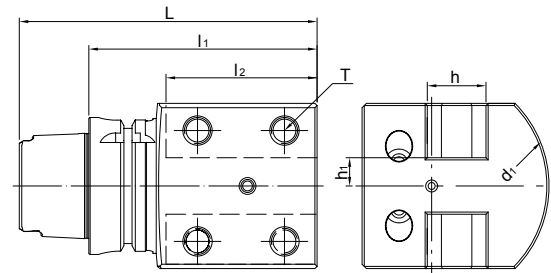
SLD


MODEL NO.	TYPE	L	l1	l2	l3	l4	d1	d2	T	WEIGHT (KGS)
T63SLD865	HSK-T63xSLD8-65	97	65	18	10	34	8	28	M8	0.84
T63SLD1070	HSK-T63xSLD10-70	102	70	20	12	39	10	35	M8	0.97
T63SLD1270	HSK-T63xSLD12-70	102	70	20	12	39	12	42	M8	1.10
T63SLD1675	HSK-T63xSLD16-75	107	75	20	15	44	16	48	M10	1.26
T63SLD2075	HSK-T63xSLD20-75	107	75	20	15	44	20	52	M10	1.34
T63SLD2585	HSK-T63xSLD25-85	117	85	23	17	52	25	62	M12	2.79
T63SLD3290	HSK-T63xSLD32-90	122	90	27	17	56	32	62	M12	1.74
T63SLD40100	HSK-T63xSLD40-100	132	100	28	22	62	40	68	M16	2.00

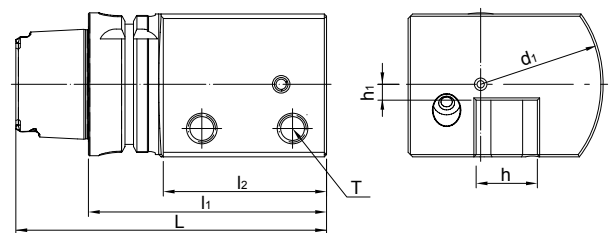
* HSK-T 100 are available on demand

**EXTERNAL TURNING TOOL
HOLDER**
SV


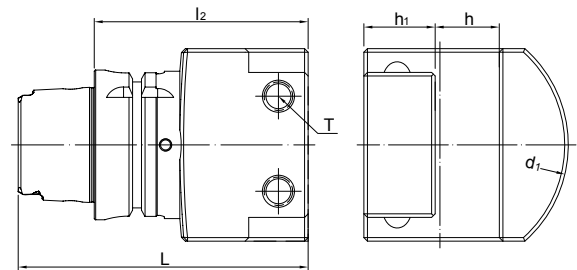
MODEL NO.	TYPE	L	l2	l3	d1	h	h1	T	WEIGHT (KGS)
T63SV20R105	HSK-T63xSV20R-105	137	105	70	90	22	15	M12 x 1.75P	2.72
T63SV20L105	HSK-T63xSV20L-105	137	105	70	90	22	15	M12 x 1.75P	2.72

**EXTERNAL TURNING TOOL
HOLDER**
SB


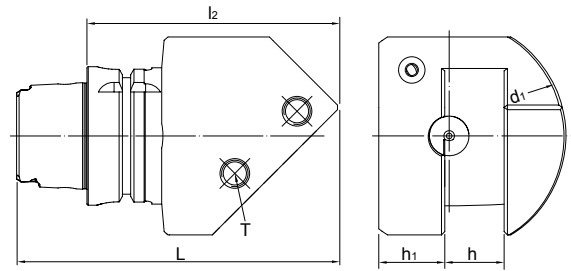
MODEL NO.	TYPE	L	l1	l2	h	h1	d1	T	WEIGHT (KGS)
T63SB20R105	HSK-T63xSB20R-105	137	105	70	25	13	54	M12 x 1.75P	2.98

**EXTERNAL TURNING TOOL
HOLDER**
S


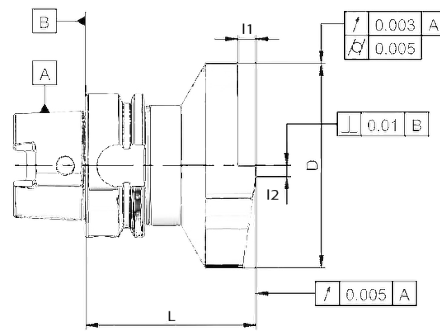
MODEL NO.	TYPE	L	l1	l2	d1	h	h1	T	WEIGHT (KGS)
T63S25R105	HSK-T63xS25R-105	137	105	70	54	27	6	M12 x 1.75P	3.40
T63S25L105	HSK-T63xS25L-105	137	105	70	54	27	6	M12 x 1.75P	3.40

**EXTERNAL TURNING TOOL
HOLDER**
SF


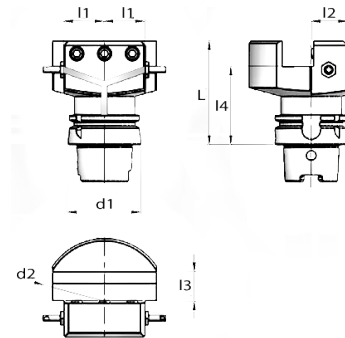
MODEL NO.	TYPE	L	l2	h	h1	d1	T	WEIGHT (KGS)
T63SF2590	HSK-T63xSF25-90	122	90	27	30	54	M12 x 1.75P	3.05
T63SF25120	HSK-T63xSF25-120	152	120	27	30	54	M12 x 1.75P	3.99

**EXTERNAL TURNING TOOL
HOLDER**
SN


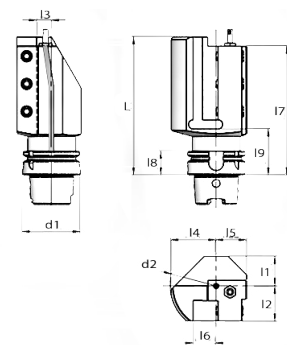
MODEL NO.	TYPE	L	l2	d1	h	h1	T	WEIGHT (KGS)
T63SN25R115	HSK-T63xSN25R-115	147	115	53	27	30	M12 x 1.75P	3.40
T63SN25L115	HSK-T63xSN25L-115	147	115	53	27	30	M12 x 1.75P	3.40

SETTING-HOLDER
SETT


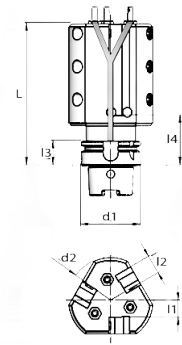
MODEL NO.	TYPE	L	D	I1	I2
T63SETT9075	HSK-T63xSETT-75	75	90	8	5

TOOLHOLDER RADIAL
RD


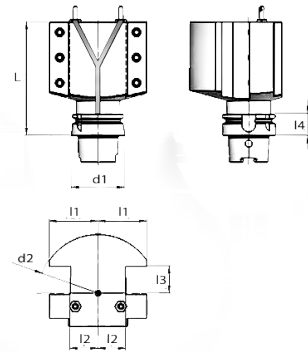
MODEL NO.	TYPE	d1	d2	I1	I2	I3	I4	L
T63RD2575	HSK-T63xRD-90	63	108	35	31,5	25	68	90

TOOLHOLDER AXIAL
AX


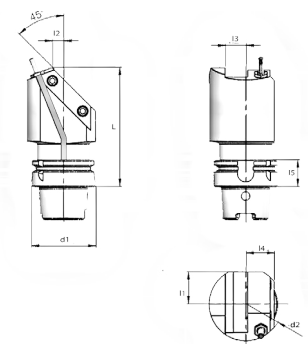
MODEL NO.	TYPE	d1	d2	I1	I2	I3	I4	I5	I6	L	I7	I8	I9
T63AX150R	HSK-T63xAX-150R	63	100	32	38	16	45	33	25	150	140	26	50
T63AX150L	HSK-T63xAX-150L	63	100	32	38	16	45	33	25	150	140	26	50

TRIPLEX TOOLHOLDER AXIAL
TRX


MODEL NO.	TYPE	d1	d2	l1	l2	L	l3	l4
T63TRX150R	HSK-T63xTRX-150R	63	90	18	20	150	26	53
T63TRX150L	HSK-T63xTRX-150L	63	90	18	20	150	26	53

DUPLEX TOOLHOLDER AXIAL
DUX


MODEL NO.	TYPE	d1	d2	l1	l2	l3	L	l4
T63DUX135	HSK-T63xDUX-135	63	140	58	33	32	135	26

TOOLHOLDER 45°
AN45°


MODEL NO.	TYPE	d1	d2	l1	l2	l3	l4	L	l5
T63AN45117R	HSK-T63xAN45-117R	63	72	31,5	11	20	28	117	26
T63AN45117L	HSK-T63xAN45-117L	63	72	31,5	11	20	28	117	26