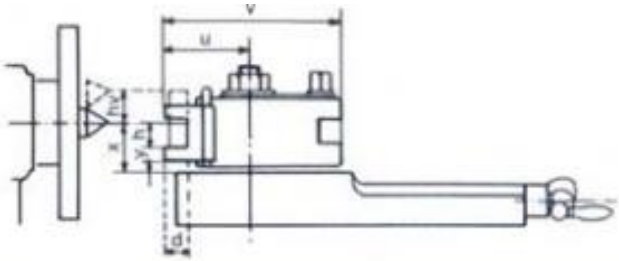
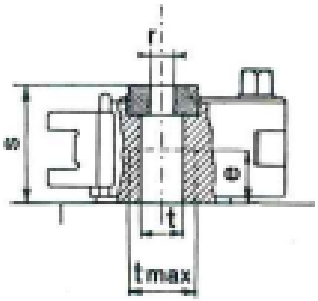
HAASE

Toolholder Size	Head of toolholder M		Change toolholder MD					Change toolholder MH					Change toolholder MJ					Cutting off toolholder MA		Sleeve L			
	Designation	kg	Designation	a mm	l mm	kg		Designation	d max. mm	l mm	kg		Designation	d mm	l mm	kg		Designation	kg	Designation	MK	d mm	kg
MAa		0,34	MAaD	12	50	0,18		MAaH	12	50	0,18		MAaJ	15	50	0,18		MAaA-AO	0,18				
MA		1,20	MAD MAD MAD MAD	16 16 20 20	75 90 75 90	0,51 0,55 0,52 0,61		MAH	20	85*	0,56		MAJ MAJ	28* 30	80 80	0,80 0,81		*MAA-A0 **MAA-HM	0,55 0,55	MAL MAL	1 2	30 30	0,36 0,36
ME		3,50	MED MED	20 25	100 100	1,27 1,29		MEH	32	100*	1,34		MEJ MEJ	30 40	100 100	1,63 2,30		*MEA-A0 **MEA-HM	1,30 1,30	MEL MEL	2 3	30 40	0,36 0,89
MB		4,50	MBD MBD MBD MBD	25 25 32 32	120 140 120 140	1,37 1,65 1,75 1,91		MBH	32	130*	1,70		MBJ MBJ	36* 40	120 120	2,40 2,31		*MBA-A2a **MBA-HM	1,50 1,50	MBL MBL MBK*	3 4 2	40 40 30	0,89 0,75 0,61
MC		10,70	MCD MCD MCD MCD MCD	32 32 40 40 45	150 170 150 170 170	2,95 3,24 3,46 3,85 3,85		MCH MCH	40 50	160* 160*	3,56 4,67		MCJ MCJ MCJ MCJ MCJ	40 50 48* MK5	160 160 160 160	3,87 4,49 4,40 3,60		*MCA-A3a **MCA-HM	2,40 2,40	MCL MCL MCL MCL MCK*	3 4 3 4 2	40 40 50 50 30	0,89 0,75 1,44 1,47 0,61
MD1		18,00	MD1D MD1D MD1D	40 50 63	180 180 180	5,50 6,00 7,50		MD1H	63	180*	8,80		MD1J MD1J MD1J	63 48* MK5	180 180 180	8,00 8,00 7,80				MD1L	5	63	1,80
MD2		25,50	MD2D MD2D	50 63	220 220	8,70 11,80		MD2H	70	220*	12,30		MD2J MD2J	63 MK5	220 220	15,50 15,30				MD2L	5	63	1,80
								* prism P useful here										* without parting-off tool					





Size		Aa	A		E		B		C			D1			D2	
Change toolholder size		D 12	D 16	D 20	D 20	D 25	D 25	D 32	D 32	D 40	D 45	D 40	D 50	D 63	D 50	D 63
Max. driving power	KW	1,2	2		4,5		7		13			19			25	
Swing of machine	mm	120-220	150-300		200-400		300-500		400-700			600-1000			700-1500	
Width of carriage max.	z mm	80	100		120		150		180			200			250	
Height of edges min.	x mm	h + y	h + y		h + y		h + y		h + y			h + y			h + y	
Height of edges max.	mm	x + hv	x + hv		x + hv		x + hv		x + hv			x + hv			x + hv	
Vertical adjustability	hv mm	8	11		17	15	20	11	40	35	30	35	30	20	30	20
Tool repose	y mm	6	9		10	11	12,5	14	15	16	17	20	21	22	22	25
Repose width for work tool	d mm	10	12		20		20		20	30	30	30	35	40	40	45
Max. height of tool	h mm	12	16	20	20	25	25	32	32	40	45	40	50	63	50	63
Total width	v mm	70	100		125		150		192	202	202	230	234	242	275	282
Total height	s mm	32	54		68		75		105			122			135	
Max. throat	u mm	30	48		60		71		92	102	102	112	117	124	140	147
Standard bore	t mm	12	19,5 (20)		19,5 (20)		31,3 (32)		39,3 (40)			39,3 (40)			79 (80)	
Max. bore	t max. mm	12	31		31		51		70			80			110	
Max. depth of bore	e mm	—	35		35		45		75			75			85	