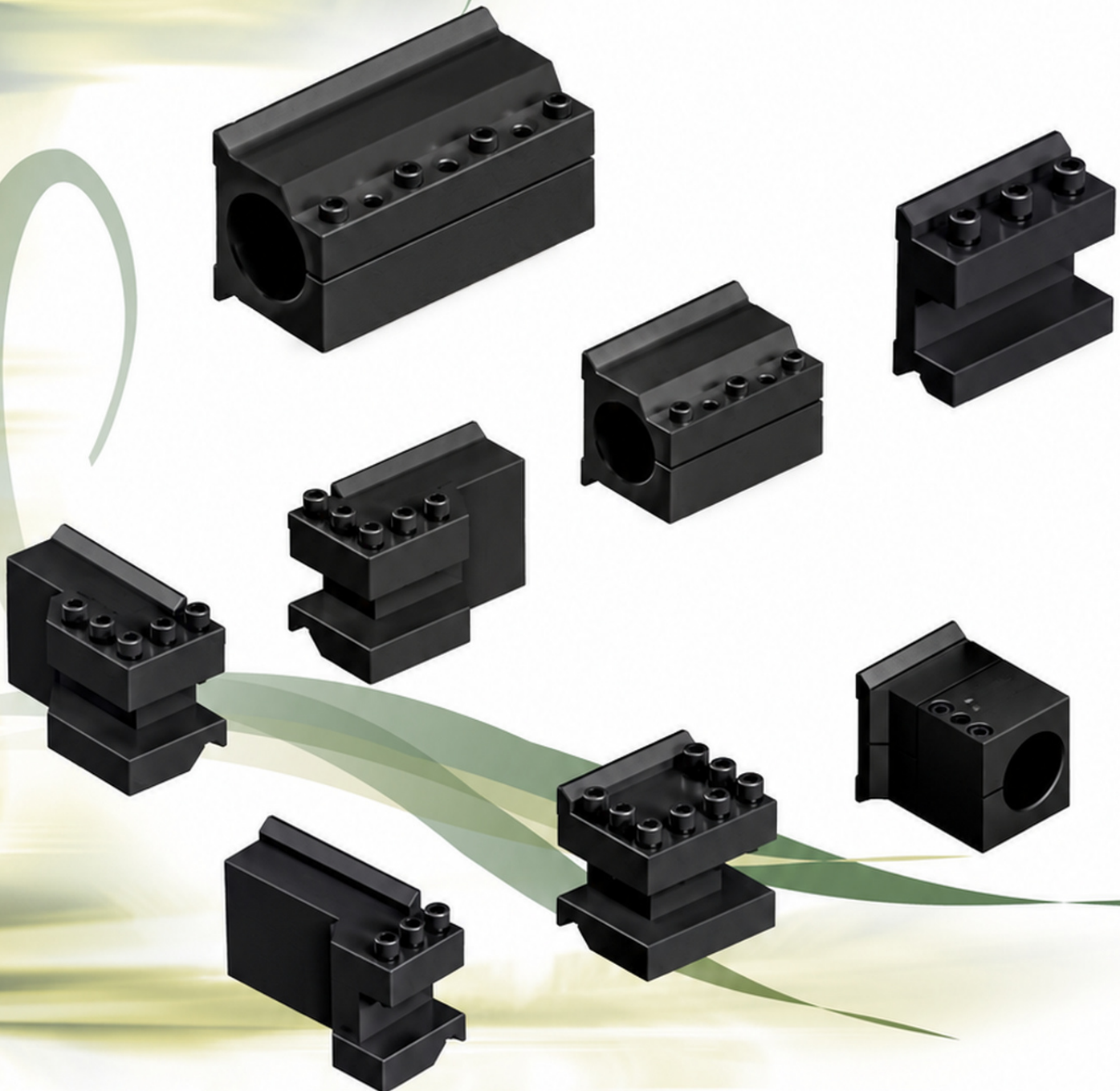


VTP TOOL HOLDERS

FOR CNC TURNING CENTERS



FEATURES

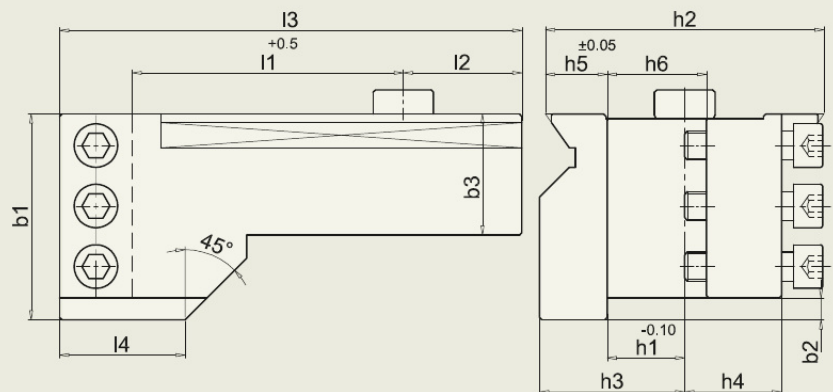
- Suitable for Vertical Tool Post Turrets
- Manufactured as per DIN 69881
- Made out of toughened steel (C-45)
- Our standard tool holders are fully blackened
- Available in standard dovetail sizes of 72, 90, 115, & 140

TOOL HOLDER MOUNTING POSITION



VERTICAL - RADIAL TOOL HOLDER - LEFT HAND

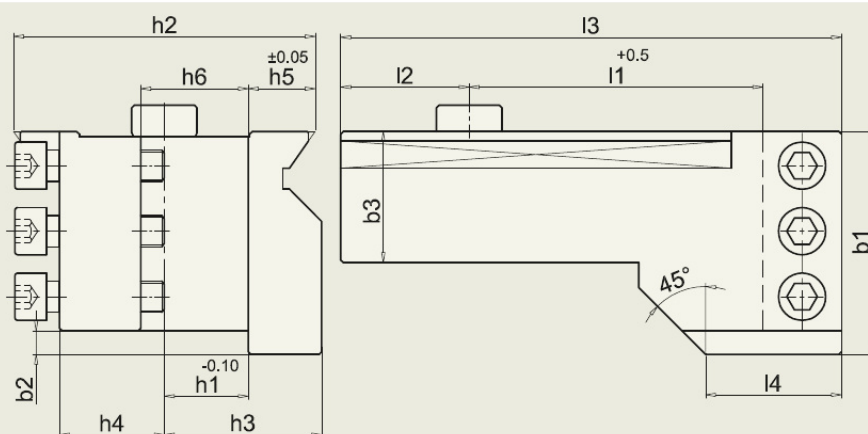
FORM A1



CODE	h2	h1	b1	b2	b3	h3	h4	h5	h6	l1	l2	l3	l4
VRTH-A1 72 20	72	20	63	6	40	43	26	16	29	49	39	110	45
VRTH-A1 90 25	90	25	72	9	40	50	35	20	34	73	39	138	45
VRTH-A1 115 32	115	32	85	9	50	60	40	25.5	41	112	49	191	50
VRTH-A1 140 40	140	40	110	12	60	78	57	30	53	115	59	209	55

VERTICAL - RADIAL TOOL HOLDER - RIGHT HAND

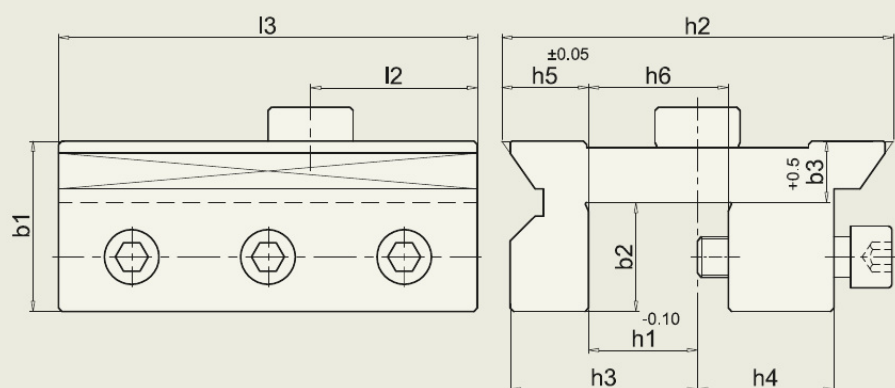
FORM A2



CODE	h2	h1	b1	b2	b3	h3	h4	h5	h6	l1	l2	l3	l4
VRTH-A2 72 20	72	20	63	6	40	43	26	16	29	49	39	110	45
VRTH-A2 90 25	90	25	72	9	40	50	35	20	34	73	39	138	45
VRTH-A2 115 32	115	32	85	9	50	60	40	25.5	41	112	49	191	50
VRTH-A2 140 40	140	40	110	12	60	78	57	30	53	115	59	209	55

VERTICAL - AXIAL TOOL HOLDER

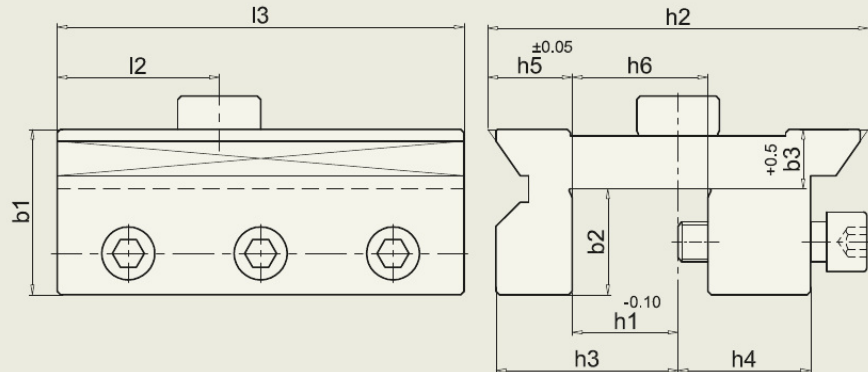
FORM B1



CODE	h2	h1	b1	b2	b3	h3	h4	h5	h6	l2	l3
VATH-B1 72 20	72	20	45	20	25	34	27	16	29	39	110
VATH-B1 90 25	90	25	50	25	25	42.5	35	20	34	39	118
VATH-B1 115 32	115	32	57	32	25	55	40	25.5	41	49	123
VATH-B1 140 40	140	40	70	40	30	67.5	57	30	53	59	160

VERTICAL - AXIAL TOOL HOLDER

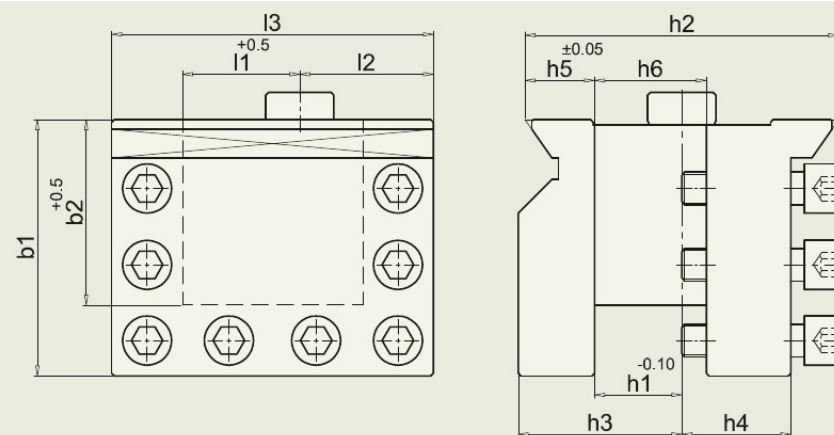
FORM B2



CODE	h2	h1	b1	b2	b3	h3	h4	h5	h6	l2	l3
VATH-B2 72 20	72	20	45	20	25	34	27	16	29	39	110
VATH-B2 90 25	90	25	50	25	25	42.5	35	20	34	39	118
VATH-B2 115 32	115	32	57	32	25	55	40	25.5	41	49	123
VATH-B2 140 40	140	40	70	40	30	67.5	57	30	53	59	160

VERTICAL - MULTIPLE TOOL HOLDER

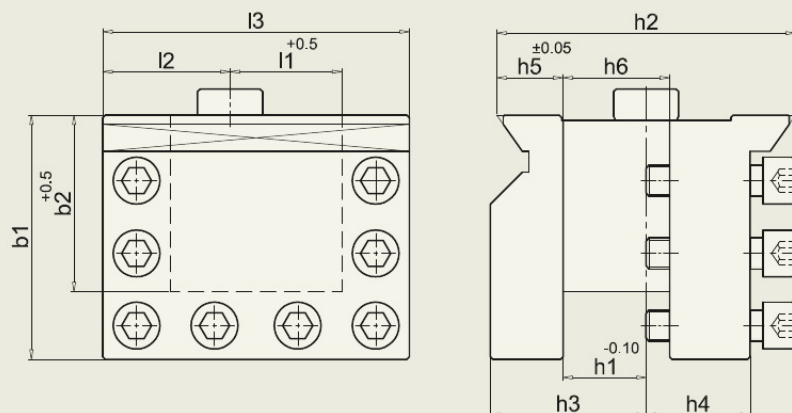
FORM C1



CODE	h2	h1	b1	b2	h3	h4	h5	h6	l1	l2	l3
VMTH-C1 72 20	72	20	81	59	43	27	16	29	37	39	98
VMTH-C1 90 25	90	25	88	62	50	35	20	34	43	39	108
VMTH-C1 115 32	115	32	94	68	60	40	25.5	41	43	49	118
VMTH-C1 140 40	140	40	115	83	78	57	30	53	53	59	144

VERTICAL - MULTIPLE TOOL HOLDER

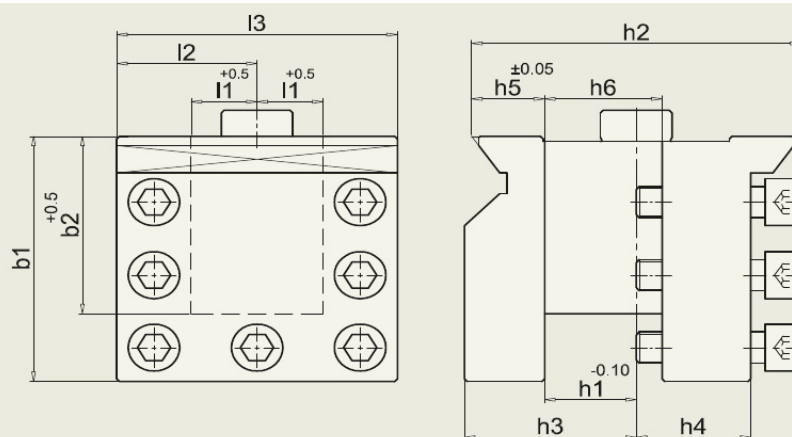
FORM C2



CODE	h2	h1	b1	b2	h3	h4	h5	h6	l1	l2	l3
VMTH-C2 72 20	72	20	81	59	43	27	16	29	37	39	98
VMTH-C2 90 25	90	25	88	62	50	35	20	34	43	39	108
VMTH-C2 115 32	115	32	94	68	60	40	25.5	41	43	49	118
VMTH-C2 140 40	140	40	115	83	78	57	30	53	53	59	144

VERTICAL - MULTIPLE TOOL HOLDER

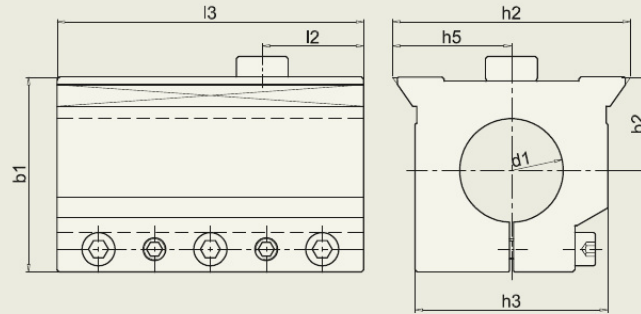
FORM C3



CODE	h2	h1	b1	b2	h3	h4	h5	h6	l1	l2	l3
VMTH-C3 72 20	72	20	81	59	43	27	16	29	17	39	78
VMTH-C3 90 25	90	25	88	62	50	35	20	34	23	49	98
VMTH-C3 115 32	115	32	94	68	60	40	25.5	41	23	49	98
VMTH-C3 140 40	140	40	115	83	78	57	30	53	27	59	118

VERTICAL - BORING TOOL HOLDER

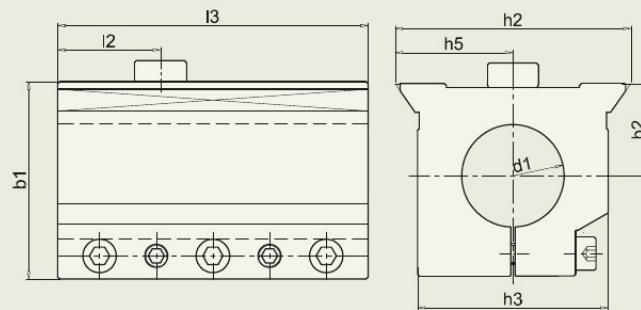
FORM D1



CODE	h2	d1	b1	b2		h3	h5		l2	l3
VBTH-D1 72 40	72	40	76	35	±0.02	72	36	±0.02	39	110
VBTH-D1 72 50	72	50	80	40		72	36		39	110
VBTH-D1 90 50	90	50	94	45	±0.04	90	45	±0.04	39	138
VBTH-D1 90 60	90	60	100	50		90	45		39	138
VBTH-D1 115 50	115	50	94	45		93	57.5		49	148
VBTH-D1 115 60	115	60	100	50		93	57.5		49	148
VBTH-D1 115 80	115	80	120	60		115	57.5		49	148
VBTH-D1 140 60	140	60	110	60		115	70		59	178
VBTH-D1 140 80	140	80	125	60		115	70		59	178
VBTH-D1 140 100	140	100	145	70		140	70		59	178

VERTICAL - BORING TOOL HOLDER

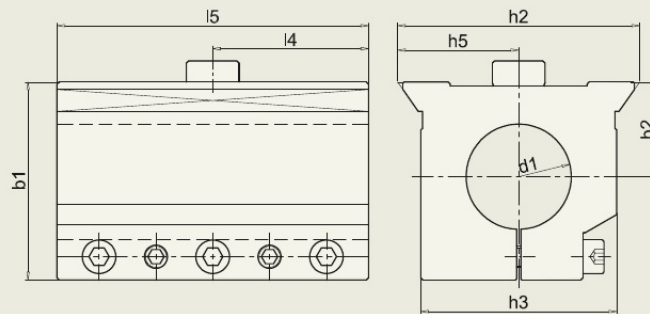
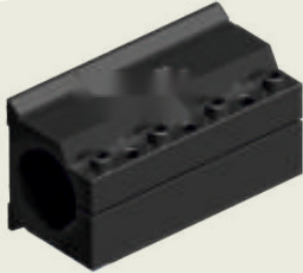
FORM D2



CODE	h2	d1	b1	b2		h3	h5		l2	l3
VBTH-D2 72 40	72	40	76	35	±0.02	72	36	±0.02	39	110
VBTH-D2 72 50	72	50	80	40		72	36		39	110
VBTH-D2 90 50	90	50	94	45	±0.04	90	45	±0.04	39	138
VBTH-D2 90 60	90	60	100	50		90	45		39	138
VBTH-D2 115 50	115	50	94	45		93	57.5		49	148
VBTH-D2 115 60	115	60	100	50		93	57.5		49	148
VBTH-D2 115 80	115	80	120	60		115	57.5		49	148
VBTH-D2 140 60	140	60	110	60		115	70		59	178
VBTH-D2 140 80	140	80	125	60		115	70		59	178
VBTH-D2 140 100	140	100	145	70		140	70		59	178

VERTICAL - BORING TOOL HOLDER

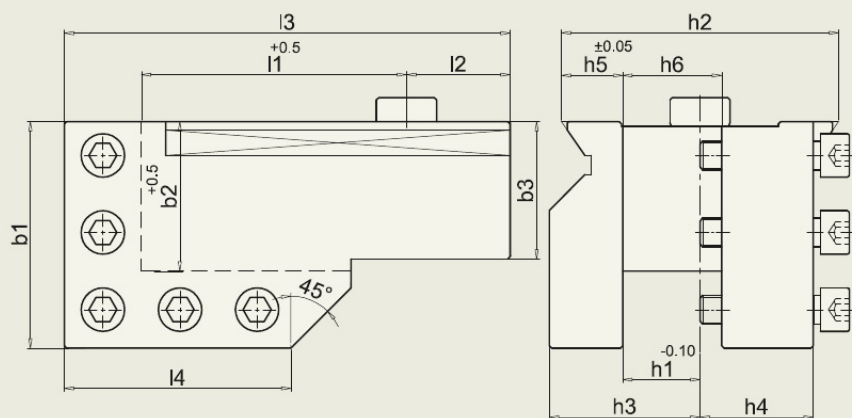
FORM D3



CODE	h2	d1	b1	b2		h3	h5	l4		l5
VBTH-D3 72 40	72	40	76	35	±0.02	72	36	±0.02	75	150
VBTH-D3 72 50	72	50	80	40		72	36		75	150
VBTH-D3 90 50	90	50	94	45	±0.04	90	45	±0.04	99	198
VBTH-D3 90 60	90	60	100	50		90	45		99	198
VBTH-D3 115 50	115	50	94	45		93	57.5		99	198
VBTH-D3 115 60	115	60	100	50		93	57.5		99	198
VBTH-D3 115 80	115	80	120	60		115	57.5		99	198
VBTH-D3 140 60	140	60	110	60		115	70		99	198
VBTH-D3 140 80	140	80	125	60		115	70		119	238
VBTH-D3 140 100	140	100	145	70		140	70		119	238

VERTICAL - RADIAL AND AXIAL TOOL HOLDER - LEFT HAND

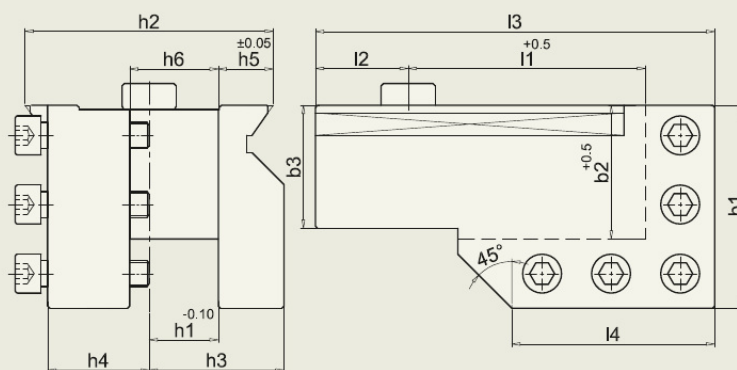
FORM-L



CODE	h2	h1	b1	b2	b3	h3	h4	h5	h6	l1	l2	l3	l4
VRATH-L 72 20	72	20	63	41	36	43	26	16	29	51	29	102	63
VRATH-L 90 25	90	25	80	55	50	50	35	20	34	74	39	138	80
VRATH-L 115 32	115	32	94	62	57	62	45	25.5	41	110	43	185	94
VRATH-L 140 40	140	40	110	70	65	80	57	30	53	110	59	209	110

VERTICAL - RADIAL AND AXIAL TOOL HOLDER - RIGHT HAND

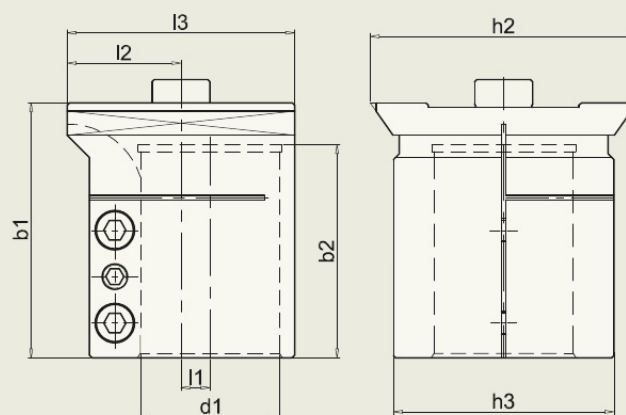
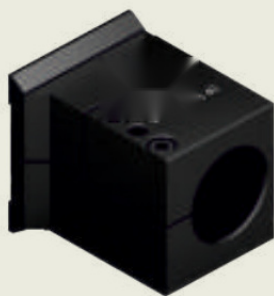
FORM - R



CODE	h_2	h_1	b_1	b_2	b_3	h_3	h_4	h_5	h_6	l_1	l_2	l_3	l_4
VRATH-R 72 20	72	20	63	41	36	43	26	16	29	51	29	102	63
VRATH-R 90 25	90	25	80	55	50	50	35	20	34	74	39	138	80
VRATH-R 115 32	115	32	94	62	57	62	45	25.5	41	110	43	185	94
VRATH-R 140 40	140	40	110	70	65	80	57	30	53	110	59	209	110

VERTICAL - RADIAL BORING TOOL HOLDER

VRBTH



CODE	h_2	d_1	b_1	b_2	h_3	l_1	l_2	l_3
VRBTH-72 40	72	40	86	70	53	10	39	78
VRBTH-90 50	90	50	102	80	71	12.5	41.5	83
VRBTH-115 60	115	60	122	100	95	12.5	49	98
VRBTH-140 80	140	80	146	120	115	12.5	59	118