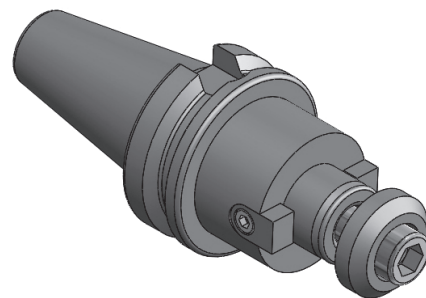
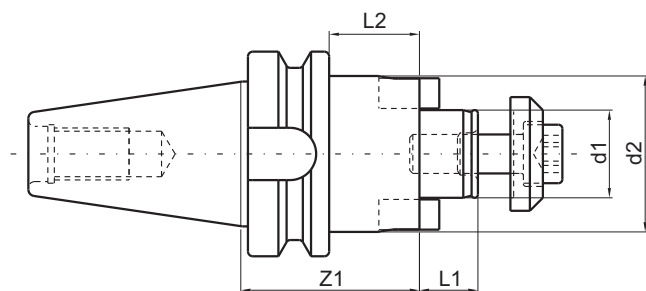


PORTA-FRESA DE FACEAR - FLANGE REDUZIDA
SHELL END MILL HOLDER - REDUCED FLANGE

ISO 3937

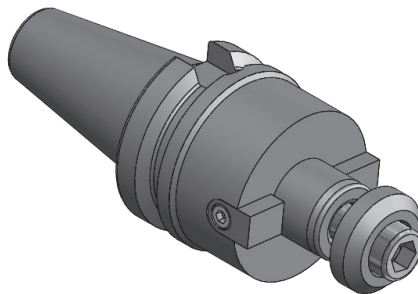
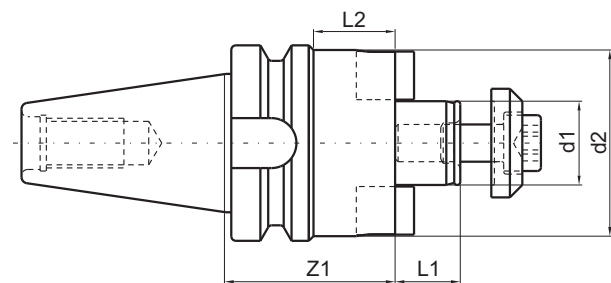


CÓDIGO/CODE	ISO	d1	d2	L1	L2	Z1
UBR33.0416	30	16	32	17	23	45
UBR33.0422	30	22	40	19	23	45
UBR33.0427	30	27	48	21	-	45
UBR43.0416	40	16	32	17	28	55
UBR43.0422	40	22	40	19	28	55
UBR43.0427	40	27	48	21	28	55
UBR43.0432	40	32	58	24	28	55
UBR43.0440	40	40	67	27	-	55
UBR53.0416	50	16	32	17	17	55
UBR53.0422	50	22	40	19	17	55
UBR53.0427	50	27	48	21	17	55
UBR53.0432	50	32	58	24	17	55
UBR53.0440	50	40	67	27	17	55

Exemplo para pedido / Ordering example: 01 pc - **UBR33.0427**

PORTA-FRESA DE FACEAR
SHELL END MILL HOLDER

ISO 3937



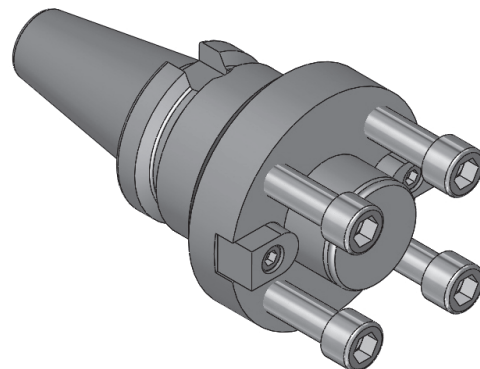
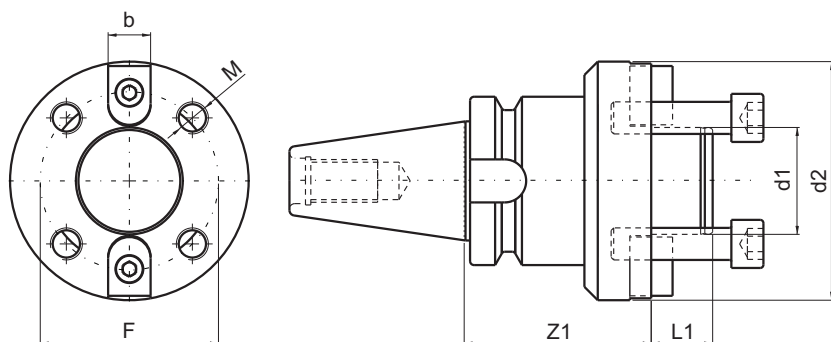
CÓDIGO/CODE	ISO	d1	d2	L1	L2	Z1
UBR33.1916	30	16	38	17	23	45
UBR33.1922	30	22	50	19	-	45
UBR33.1927	30	27	60	21	-	45
UBR43.1916	40	16	38	17	28	55
UBR43.1922	40	22	50	19	28	55
UBR43.1927	40	27	60	21	28	55
UBR43.1932	40	32	78	24	-	55
UBR43.1940	40	40	89	27	-	55
UBR53.1916	50	16	38	17	17	55
UBR53.1922	50	22	50	19	17	55
UBR53.1927	50	27	60	21	17	55
UBR53.1932	50	32	78	24	17	55
UBR53.1940	50	40	89	27	17	55

Exemplo para pedido / Ordering example: 01 pc - **UBR33.1927**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Sem refrigeração / Without coolant supply.

PORTA-FRESA DE FACEAR
FACE MILL HOLDER

DIN 6357

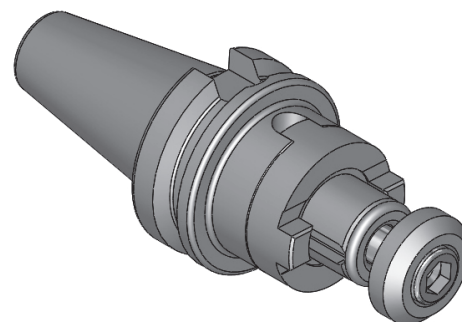
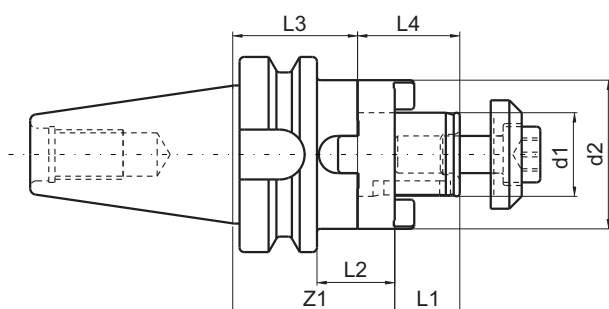


CÓDIGO/CODE	ISO	b	d1	d2	F	L1	M	Z1
UBR43.2440	40	15.90	40	89	66.70	30	M12	70
UBR53.2440	50	15.90	40	89	66.70	30	M12	70
UBR53.2460	50	25.40	60	129	101.60	40	M16	80

Exemplo para pedido / Ordering example: 01 pc - **UBR53.2460**

PORTA-FRESA COMBINADO
SHELL END MILL HOLDER - COMBI

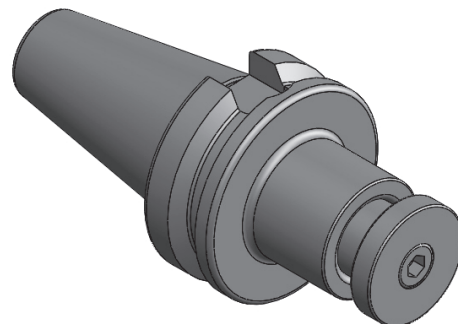
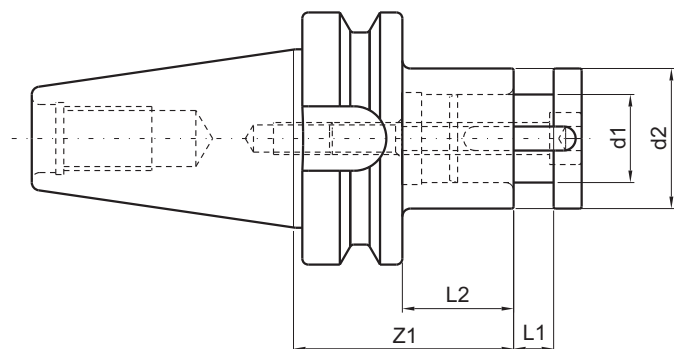
DIN 6358



CÓDIGO/CODE	ISO	d1	d2	L1	L2	L3	L4	Z1
UBR33.1416	30	16	32	17	28	40	27	50
UBR33.1422	30	22	40	19	28	38	31	50
UBR33.1427	30	27	48	21	-	43	33	55
UBR43.1416	40	16	32	17	28	45	27	55
UBR43.1422	40	22	40	19	28	43	31	55
UBR43.1427	40	27	48	21	28	43	33	55
UBR43.1432	40	32	58	24	33	46	38	60
UBR43.1440	40	40	70	27	-	46	41	60
UBR53.1416	50	16	32	17	32	60	27	70
UBR53.1422	50	22	40	19	32	58	31	70
UBR53.1427	50	27	48	21	32	58	33	70
UBR53.1432	50	32	58	24	32	56	38	70
UBR53.1440	50	40	70	27	32	56	41	70
UBR53.1450	50	50	90	30	32	54	46	70

Exemplo para pedido / Ordering example: 01 pc - **UBR33.1427**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Sem refrigeração / Without coolant supply.

PORTA-FRESA DE DISCO TIPO PISTÃO
SLOTING CUTTERS HOLDER PISTON TYPE


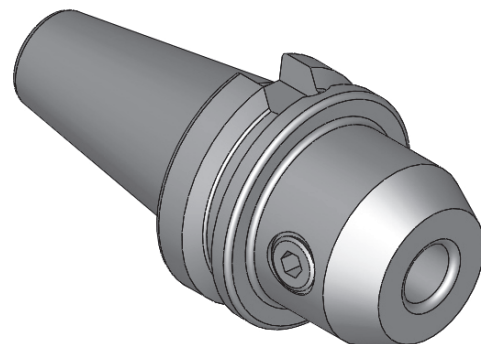
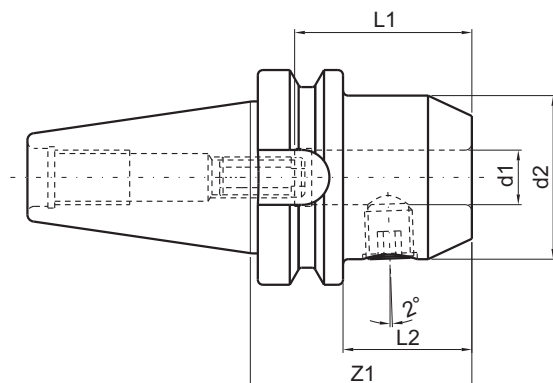
CÓDIGO/CODE	ISO	d1	d2	L1	L2	Z1
UBR33.4416	30	16	32	0-10	48	70
UBR33.4422	30	22	40	0-12	53	75
UBR33.4427	30	27	48	0-15	58	80
UBR43.4416	40	16	32	0-10	43	70
UBR43.4422	40	22	40	0-12	43	70
UBR43.4427	40	27	48	0-15	48	75
UBR43.4432	40	32	58	0-24	63	90
UBR43.4440	40	40	70	0-30	88	115
UBR53.4416	50	16	32	0-10	42	80
UBR53.4422	50	22	40	0-12	42	80
UBR53.4427	50	27	48	0-15	47	85
UBR53.4432	50	32	58	0-24	62	100
UBR53.4440	50	40	70	0-30	82	120

Exemplo para pedido / Ordering example: 01 pç - **UBR33.4427**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Differents dimensions of the standard, available upon request.
- Sem refrigeração / Without coolant supply.

PORTA FERRAMENTA FIXAÇÃO LATERAL DIN 1835-E - WHISTLE NOTCH
SIDE LOCK END MILL HOLDER DIN 1835-E - WHISTLE NOTCH

DIN 6359-E

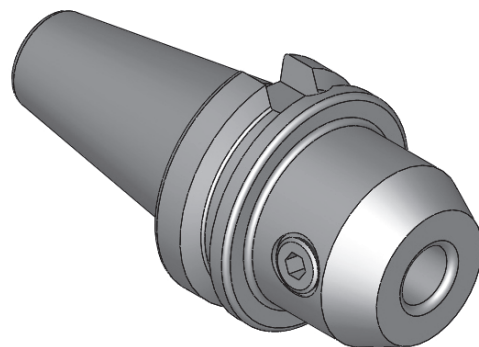
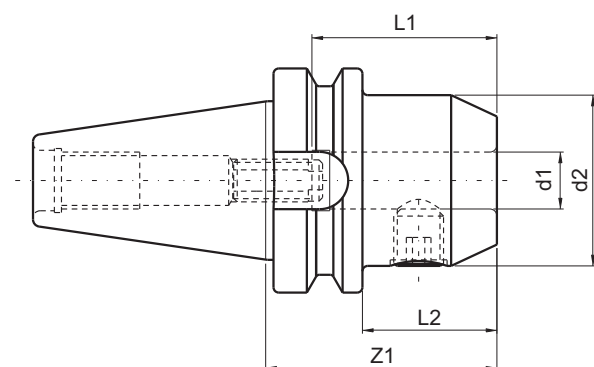


CÓDIGO / CODE	ISO	d1	d2	L1	L2	Z1
UBR33.0206	30	6	25	40	28	50
UBR33.0208	30	8	28	40	28	50
UBR33.0210	30	10	35	44	28	50
UBR33.0212	30	12	42	49	33	55
UBR33.0214	30	14	44	49	33	55
UBR33.0216	30	16	48	52	-	65
UBR33.0218	30	18	50	52	-	65
UBR33.0220	30	20	50	54	-	70
UBR43.0206	40	6	25	40	23	50
UBR43.0208	40	8	28	40	33	60
UBR43.0210	40	10	35	44	33	60
UBR43.0212	40	12	42	49	33	60
UBR43.0214	40	14	44	49	33	60
UBR43.0216	40	16	48	52	38	65
UBR43.0218	40	18	50	52	38	65
UBR43.0220	40	20	50	54	38	65
UBR43.0225	40	25	65	59	-	100
UBR43.0232	40	32	68	63	-	105
UBR43.0240	40	40	80	73	-	120
UBR53.0206	50	6	25	40	25	63
UBR53.0208	50	8	28	40	25	63
UBR53.0210	50	10	35	44	32	70
UBR53.0212	50	12	42	49	37	75
UBR53.0214	50	14	44	49	37	75
UBR53.0216	50	16	48	52	37	75
UBR53.0218	50	18	50	52	37	75
UBR53.0220	50	20	50	54	37	75
UBR53.0225	50	25	65	59	62	100
UBR53.0232	50	32	68	63	67	105
UBR53.0240	50	40	80	73	77	115

Exemplo para pedido / Ordering example: 01 pc - **UBR33.0210**

- d1 > 25 - 02 parafusos de fixação
d1 > 25 - 02 screws
- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Com passagem interna de fluido refrigerante.
Internal coolant supply.

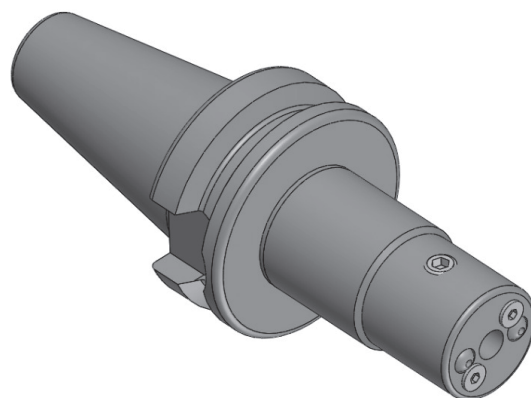
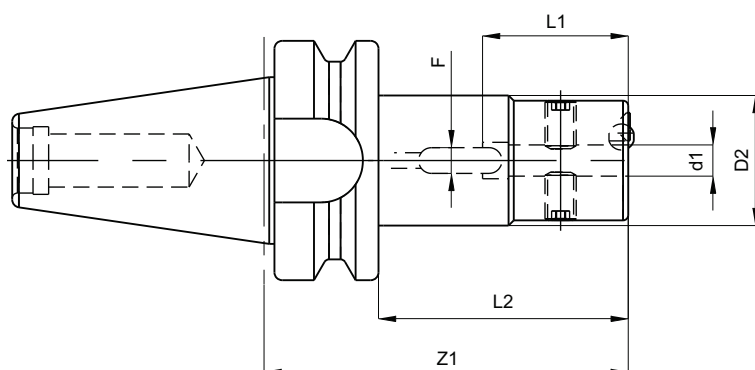
PORTA FERRAMENTA FIXAÇÃO LATERAL DIN 1835-B - WELDON
SIDE LOCK END MILL HOLDER DIN 1835-B - WELDON

DIN 6359-B

CÓDIGO/CODE	ISO	d1	d2	L1	L2	Z1
UBR33.0006	30	6	25	40	28	50
UBR33.0008	30	8	28	40	28	50
UBR33.0010	30	10	35	44	28	50
UBR33.0012	30	12	42	49	33	55
UBR33.0014	30	14	44	49	33	55
UBR33.0016	30	16	48	52	-	65
UBR33.0018	30	18	50	52	-	65
UBR33.0020	30	20	50	54	-	70
UBR43.0006	40	6	25	40	23	50
UBR43.0008	40	8	28	40	33	60
UBR43.0010	40	10	35	44	33	60
UBR43.0012	40	12	42	49	33	60
UBR43.0014	40	14	44	49	33	60
UBR43.0016	40	16	48	52	38	65
UBR43.0018	40	18	50	52	38	65
UBR43.0020	40	20	50	54	38	65
UBR43.0025	40	25	65	59	-	100
UBR43.0032	40	32	68	63	-	105
UBR43.0040	40	40	80	73	-	120
UBR53.0006	50	6	25	40	25	63
UBR53.0008	50	8	28	40	25	63
UBR53.0010	50	10	35	44	32	70
UBR53.0012	50	12	42	49	37	75
UBR53.0014	50	14	44	49	37	75
UBR53.0016	50	16	48	52	37	75
UBR53.0018	50	18	50	52	37	75
UBR53.0020	50	20	50	54	37	75
UBR53.0025	50	25	65	59	62	100
UBR53.0032	50	32	68	63	67	105
UBR53.0040	50	40	80	73	77	115

Exemplo para pedido / Ordering example: 01 pc - **UBR33.0010**

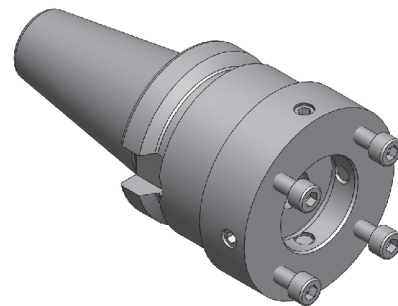
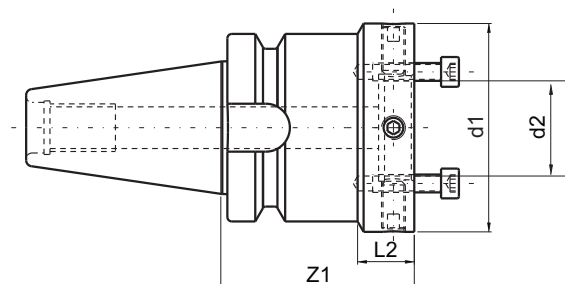
- d1 > 25 - 02 parafusos de fixação
d1 > 25 - 02 screws
- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Com passagem interna de fluido refrigerante.
Internal coolant supply.

PORTA-MACHO RÍGIDO
RIGID TAPPING CHUCK


CÓDIGO/CODE	ISO	M	d1	d2	F	L1	L2	Z1
UBR33.1204	30	M3,5	4	25	3	20	32	54
UBR33.12045	30	M4-M6	4,50	25	3,4	20	32	54
UBR33.12055	30	M7	5,50	25	4,3	25	43	65
UBR33.1206	30	M4.5-M8	6	25	4,9	28	48	70
UBR33.1207	30	M7-M10	7	28	5,5	28	48	70
UBR33.1208	30	M8-M11	8	28	6,2	28	48	70
UBR33.1209	30	M9-M12	9	35	7,0	29	48	70
UBR33.1210	30	M10	10	35	8,0	32	53	75
UBR43.1204	40	M3,5	4	25	3	20	33	60
UBR43.12045	40	M4-M6	4,50	25	3,4	20	33	60
UBR43.12055	40	M7	5,50	25	4,3	25	48	75
UBR43.1206	40	M4.5-M8	6	25	4,9	28	48	75
UBR43.1207	40	M7-M10	7	28	5,5	28	48	75
UBR43.1208	40	M8-M11	8	28	6,2	28	48	75
UBR43.1209	40	M9-M12	9	35	7,0	29	48	75
UBR43.1210	40	M10	10	35	8,0	32	58	85
UBR43.1211	40	M14	11	42	9	36	58	85
UBR43.1212	40	M15-M16	12	42	9	36	58	85
UBR43.1214	40	M18	14	44	11	40	73	100
UBR43.1216	40	M20	16	48	12	45	73	100
UBR53.1204	50	M3,5	4	25	3	20	37	75
UBR53.12045	50	M4-M6	4,50	25	3,4	20	37	75
UBR53.12055	50	M7	5,50	25	4,3	25	52	90
UBR53.1206	50	M4.5-M8	6	25	4,9	28	52	90
UBR53.1207	50	M7-M10	7	28	5,5	28	52	90
UBR53.1208	50	M8-M11	8	28	6,2	28	52	90
UBR53.1209	50	M9-M12	9	35	7,0	29	52	90
UBR53.1210	50	M10	10	35	8,0	32	62	100
UBR53.1211	50	M14	11	42	9	36	62	100
UBR53.1212	50	M15-M16	12	42	9	36	62	100
UBR53.1214	50	M18	14	44	11	40	72	110
UBR53.1216	50	M20	16	48	12	45	72	110
UBR53.1218	50	M22-M24	18	50	14,50	45	72	110

Exemplo para pedido / Ordering example: 01 pc - **UBR33.12055**

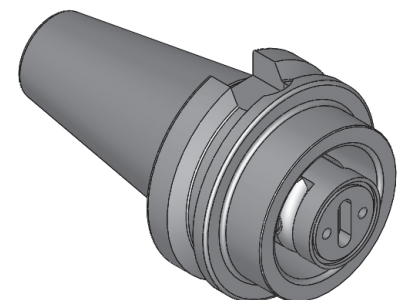
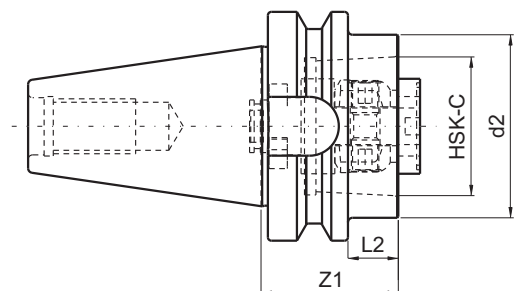
- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Com passagem externa com refrigeração externa.
External coolant supply.

PORTA FERRAMENTA PARA FLANGE DE CENTRAGEM E ALINHAMENTO (FLANGE MONTAGEM)
FLANGE CENTERING AND ALIGNMENT TOOL HOLDER (FLANGE MOUNTS)


CÓDIGO/CODE	ISO	d1	d2	L2	Z1
UBR33.9761	30	30	60	-	40
UBR33.9762	30	35	70	-	40
UBR43.9761	40	30	60	28	55
UBR43.9762	40	35	70	-	55
UBR43.9763	40	40	80	-	65
UBR43.9764	40	50	100	-	70
UBR53.9761	50	30	60	32	70
UBR53.9762	50	35	70	32	70
UBR53.9763	50	40	80	32	70
UBR53.9764	50	50	100	-	70
UBR53.9765	50	60	117	-	80
UBR53.9766	50	80	140	-	80

Exemplo para pedido / Ordering example: 01 pc - **UBR43.9761**

- Permite ajuste axial e radial / With axial and radial adjustment

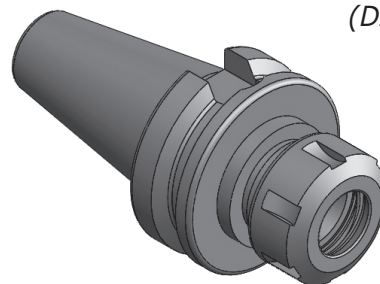
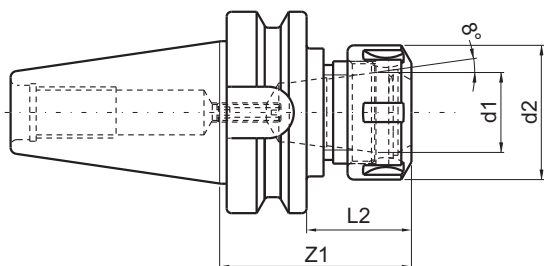
PORTA FERRAMENTA COM ADAPTAÇÃO HSK - FIXAÇÃO MANUAL HSK-C
TOOL HOLDER FOR HSK ADAPTATION - CLAMPING MANUAL


CÓDIGO/CODE	ISO	HSK-C	d2	L2	Z1
UBR33.9832	30	32	37	18	40
UBR33.9840	30	40	45	18	40
UBR43.9832	40	32	37	13	40
UBR43.9840	40	40	45	13	40
UBR43.9850	40	50	55	23	50
UBR43.9863	40	63	70	-	70
UBR53.9832	50	32	37	12	50
UBR53.9840	50	40	45	12	50
UBR53.9850	50	50	55	22	60
UBR53.9863	50	63	70	22	60
UBR53.9880	50	80	87	22	60

Exemplo para pedido / Ordering example: 01 pc - **UBR43.9832**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Com passagem interna de fluido refrigerante.
Internal coolant supply.

PORTA-PINÇA
COLLET CHUCK HOLDER

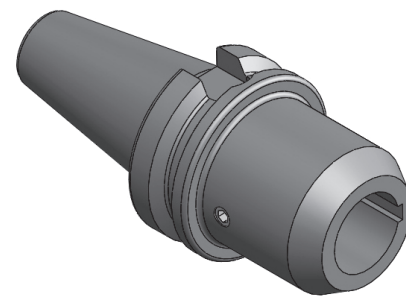
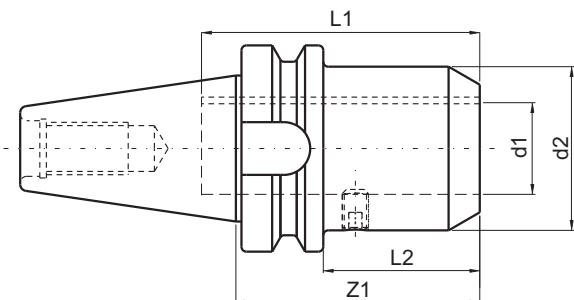
DIN ISO 15488
(DIN 6499)


CÓDIGO/CODE	ISO	TAM./SIZE	Capacidade/Range		d1	d2	L2	Z1
			Forma A Form A	Forma B Form B				
UBR33.2311	30	11	1-06	1-07	11	19	23	45
UBR33.2316	30	16	1-10	1-10	16	28	28	50
UBR33.2320	30	20	1-13	1-13	20	35	33	55
UBR33.2325	30	25	1-16	2-16	25	42	33	55
UBR33.2332	30	32	2-20	3-20	32	50	-	60
UBR43.2316	40	16	1-10	1-10	16	28	33	60
UBR43.2320	40	20	1-13	1-13	20	35	33	60
UBR43.2325	40	25	1-16	2-16	25	42	33	60
UBR43.2332	40	32	2-20	3-20	32	50	33	70
UBR43.2340	40	40	3-26	4-26	40	63	-	80
UBR53.2316	50	16	1-10	1-10	16	28	32	70
UBR53.2320	50	20	1-13	1-13	20	35	32	70
UBR53.2325	50	25	1-16	2-16	25	42	32	70
UBR53.2332	50	32	2-20	3-20	32	50	42	80
UBR53.2340	50	40	3-26	4-26	40	63	42	80

Exemplo para pedido / Ordering example: 01 pc - **UBR33.2320**

PORTA ADAPTADOR REGULÁVEL PARA HASTE DIN 6327
AUTOMOTIVE TYPE HOLDER FOR SHANK DIN 6327

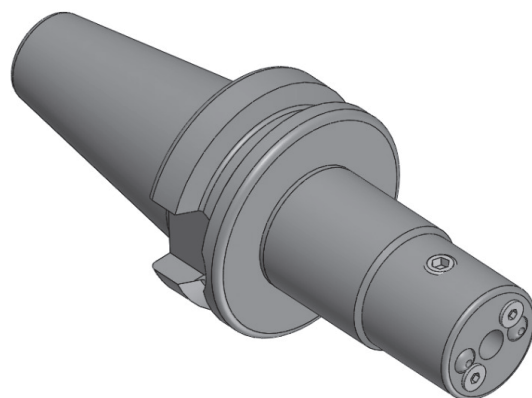
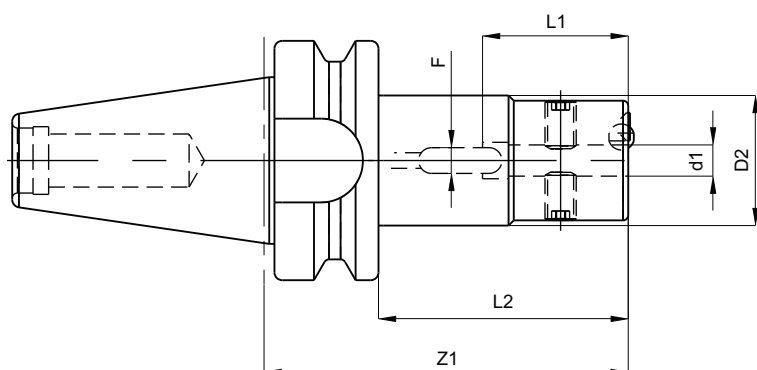
DIN 55058



CÓDIGO/CODE	ISO	d1	d2	L1	L2	Z1
UBR33.0816	30	16	30	75	58	80
UBR33.0820	30	20	40	78	63	85
UBR33.0828	30	28	50	85	88	110
UBR43.0816	40	16	30	75	43	70
UBR43.0820	40	20	40	78	43	70
UBR43.0828	40	28	50	85	48	75
UBR43.0836	40	36	63	106	93	120
UBR53.0816	50	16	30	75	42	80
UBR53.0820	50	20	40	78	42	80
UBR53.0828	50	28	50	85	52	90
UBR53.0836	50	36	63	106	62	100
UBR53.0848	50	48	80	129	82	120

Exemplo para pedido / Ordering example: 01 pc - **UBR33.0828**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Differents dimensions of the standard, available upon request.
- Com passagem interna de fluido refrigerante.
Internal coolant supply.

PORTA-MACHO RÍGIDO
RIGID TAPPING CHUCK


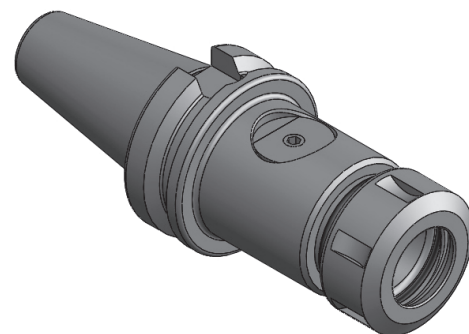
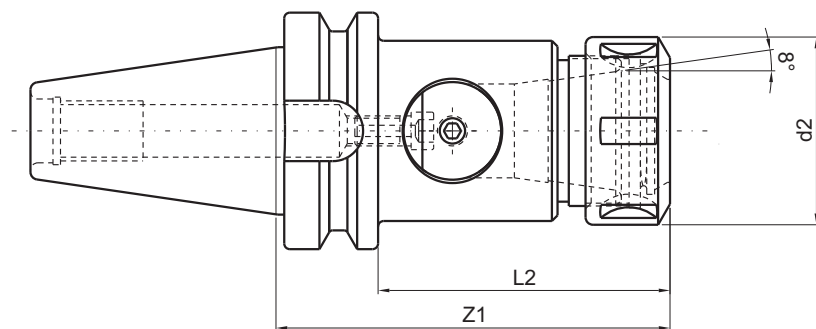
CÓDIGO/CODE	ISO	M	d1	d2	F	L1	L2	Z1
UBR33.1204	30	M3,5	4	25	3	20	32	54
UBR33.12045	30	M4-M6	4,50	25	3,4	20	32	54
UBR33.12055	30	M7	5,50	25	4,3	25	43	65
UBR33.1206	30	M4.5-M8	6	25	4,9	28	48	70
UBR33.1207	30	M7-M10	7	28	5,5	28	48	70
UBR33.1208	30	M8-M11	8	28	6,2	28	48	70
UBR33.1209	30	M9-M12	9	35	7,0	29	48	70
UBR33.1210	30	M10	10	35	8,0	32	53	75
UBR43.1204	40	M3,5	4	25	3	20	33	60
UBR43.12045	40	M4-M6	4,50	25	3,4	20	33	60
UBR43.12055	40	M7	5,50	25	4,3	25	48	75
UBR43.1206	40	M4.5-M8	6	25	4,9	28	48	75
UBR43.1207	40	M7-M10	7	28	5,5	28	48	75
UBR43.1208	40	M8-M11	8	28	6,2	28	48	75
UBR43.1209	40	M9-M12	9	35	7,0	29	48	75
UBR43.1210	40	M10	10	35	8,0	32	58	85
UBR43.1211	40	M14	11	42	9	36	58	85
UBR43.1212	40	M15-M16	12	42	9	36	58	85
UBR43.1214	40	M18	14	44	11	40	73	100
UBR43.1216	40	M20	16	48	12	45	73	100
UBR53.1204	50	M3,5	4	25	3	20	37	75
UBR53.12045	50	M4-M6	4,50	25	3,4	20	37	75
UBR53.12055	50	M7	5,50	25	4,3	25	52	90
UBR53.1206	50	M4.5-M8	6	25	4,9	28	52	90
UBR53.1207	50	M7-M10	7	28	5,5	28	52	90
UBR53.1208	50	M8-M11	8	28	6,2	28	52	90
UBR53.1209	50	M9-M12	9	35	7,0	29	52	90
UBR53.1210	50	M10	10	35	8,0	32	62	100
UBR53.1211	50	M14	11	42	9	36	62	100
UBR53.1212	50	M15-M16	12	42	9	36	62	100
UBR53.1214	50	M18	14	44	11	40	72	110
UBR53.1216	50	M20	16	48	12	45	72	110
UBR53.1218	50	M22-M24	18	50	14,50	45	72	110

Exemplo para pedido / Ordering example: 01 pc - **UBR33.12055**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Com passagem externa com refrigeração externa.
External coolant supply.

PORTA-MACHO RÍGIDO PARA ROSQUEAMENTO SINCRONIZADO COM PINÇA ER
RIGID TAPPING CHUCK FOR SYNCHRONISED FEED WITH ER COLLET

DIN 6499

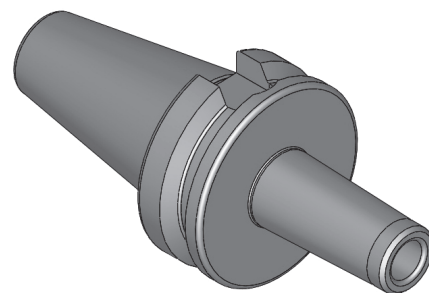
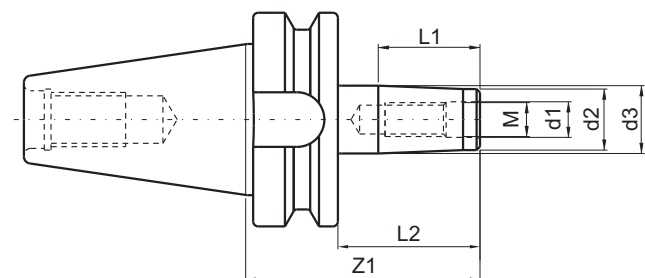


CÓDIGO / CODE	ISO	Pinça / Collet	Capacidade / Range	d2	L2	Z1
UBR33.2216	30	ER-16	M3-M12	28	58	80
UBR33.2220	30	ER-20	M5-M16	35	63	85
UBR33.2225	30	ER-25	M5-M20	42	68	90
UBR43.2216	40	ER-16	M3-M12	28	53	80
UBR43.2220	40	ER-20	M5-M16	35	58	85
UBR43.2225	40	ER-25	M5-M20	42	68	95
UBR43.2232	40	ER-32	M8-M27	50	73	100
UBR43.2240	40	ER-40	M12-M33	63	-	115
UBR53.2216	50	ER-16	M3-M12	28	57	95
UBR53.2220	50	ER-20	M5-M16	35	62	100
UBR53.2225	50	ER-25	M5-M20	42	67	105
UBR53.2232	50	ER-32	M8-M27	50	77	115
UBR53.2240	50	ER-40	M12-M33	63	92	130

Exemplo para pedido / Ordering example: 01 pc - **UBR33.2225**

- Para macho com refrigeração interna, utilizar porca selada, pág._____.
- For taps with internal coolant through, should be used sealed nut. pag._____.

- Dimensões diferentes do padrão, disponíveis sob consulta.
Differents dimensions of the standard, available upon request.
- Com passagem interna de fluído refrigerante.
Internal coolant supply.

PORTA FERRAMENTA COM ADAPTAÇÃO PARA ACOPLAMENTO ROSCADO
TOOL HOLDER FOR SCREW-ON ADAPTERS


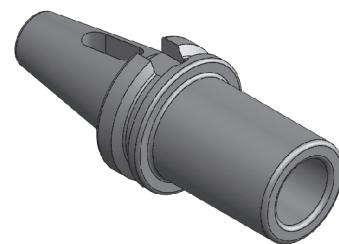
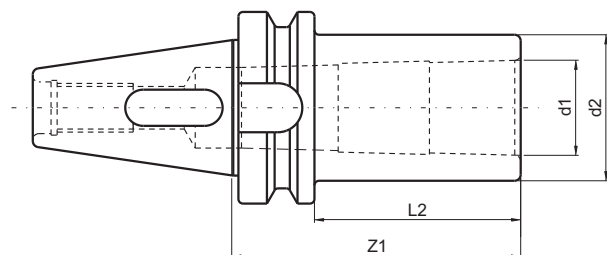
CÓDIGO/CODE	ISO	M	d1	d2	d3	L1	L2	Z1
UBR33.9906	30	M6	6.50	9.8	13	30	36	58
UBR33.9906-078	30	M6	6.50	9.8	20	50	56	78
UBR33.9908	30	M8	8.50	13	15	30	36	58
UBR33.9908-078	30	M8	8.50	13	23	50	56	78
UBR33.9910	30	M10	10.50	18	20	30	36	58
UBR33.9910-078	30	M10	10.50	18	25	50	56	78
UBR33.9912	30	M12	12.50	21	24	30	36	58
UBR33.9912-078	30	M12	12.50	21	24	50	56	78
UBR33.9916	30	M16	17	29	34	30	36	58
UBR33.9916-078	30	M16	17	29	34	50	56	78
UBR43.9906	40	M6	6.50	9.8	13	34	40	67
UBR43.9906-087	40	M6	6.50	9.8	20	54	60	87
UBR43.9906-107	40	M6	6.50	9.8	23	74	80	107
UBR43.9908	40	M8	8.50	13	15	34	40	67
UBR43.9908-087	40	M8	8.50	13	23	54	60	87
UBR43.9908-107	40	M8	8.50	13	29	74	80	107
UBR43.9910	40	M10	10.50	18	20	34	40	67
UBR43.9910-087	40	M10	10.50	18	25	54	60	87
UBR43.9910-107	40	M10	10.50	18	28	74	80	107
UBR43.9912	40	M12	12.50	21	24	34	40	67
UBR43.9912-087	40	M12	12.50	21	24	54	60	87
UBR43.9912-107	40	M12	12.50	21	31	74	80	107
UBR43.9912-127	40	M12	12.50	21	31	94	100	127
UBR43.9916	40	M16	17	29	34	34	40	67
UBR43.9916-087	40	M16	17	29	34	54	60	87
UBR43.9916-107	40	M16	17	29	34	74	80	107
UBR43.9916-127	40	M16	17	29	39	94	100	127
UBR53.9908	50	M8	8.50	13	23	43	49	87
UBR53.9908-107	50	M8	8.50	13	29	63	69	107
UBR53.9908-137	50	M8	8.50	13	29	93	99	137
UBR53.9910	50	M10	10.50	18	25	43	49	87
UBR53.9910-107	50	M10	10.50	18	28	63	69	107
UBR53.9910-137	50	M10	10.50	18	32	93	99	137
UBR53.9912	50	M12	12.50	21	24	43	49	87
UBR53.9912-137	50	M12	12.50	21	31	93	99	137
UBR53.9912-187	50	M12	12.50	21	31	143	149	187
UBR53.9912-237	50	M12	12.50	21	39	193	199	237
UBR53.9916	50	M16	17	29	34	43	49	87
UBR53.9916-137	50	M16	17	29	34	93	99	137
UBR53.9916-187	50	M16	17	29	39	143	149	187
UBR53.9916-237	50	M16	17	29	49	193	199	237

Exemplo para pedido / Ordering example: 01 pc - **UBR33.9908**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Com passagem interna de fluido refrigerante.
Internal coolant supply.

PORTA FERRAMENTA PARA ADAPTAÇÃO CONE MORSE DIN 228 - FORMA D
TOOL HOLDER FOR MORSE TAPER ADAPTATION DIN 228 - FORM D

DIN 6383

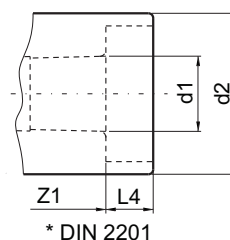
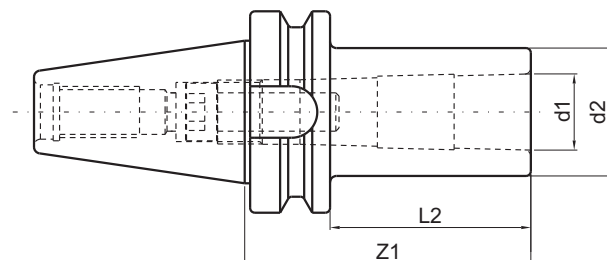


CÓDIGO/CODE	ISO	TAM./SIZE	d1	d2	L2	Z1
UBR33.0501	30	CM1	12.065	25	28	50
UBR33.0502	30	CM2	17.780	32	38	60
UBR33.0503	30	CM3	23.825	40	56	78
UBR43.0501	40	CM1	12.065	25	23	50
UBR43.0502	40	CM2	17.780	32	28	55
UBR43.0503	40	CM3	23.825	40	48	75
UBR43.0504	40	CM4	31.267	48	68	95
UBR53.0501	50	CM1	12.065	25	7	45
UBR53.0502	50	CM2	17.780	32	12	50
UBR53.0503	50	CM3	23.825	40	12	50
UBR53.0504	50	CM4	31.267	48	37	75
UBR53.0505	50	CM5	44.399	63	67	105

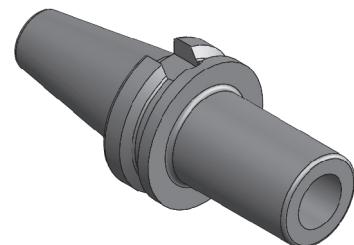
Exemplo para pedido / Ordering example: 01 pç - **UBR33.0503**

PORTA FERRAMENTA PARA ADAPTAÇÃO CONE MORSE DIN 228 - FORMA C
TOOL HOLDER FOR MORSE TAPER ADAPTATION DIN 228 - FORM C

DIN 6364-B



* DIN 2201



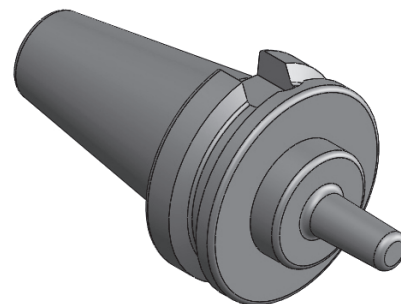
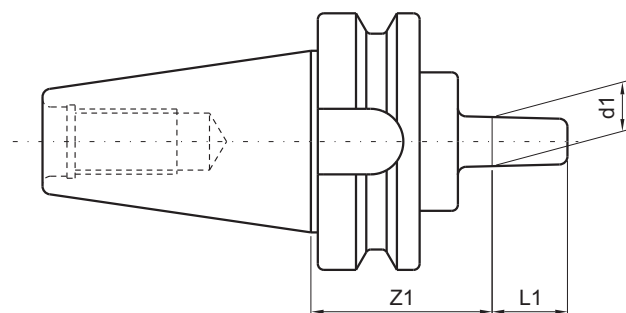
CÓDIGO/CODE	ISO	TAM./SIZE	d1	d2	L2	L4	Z1
UBR33.1501	30	CM1	12.065	25	38	-	60
UBR33.1502	30	CM2	17.780	32	48	-	70
UBR33.1503	30	CM3	23.825	40	78	-	100
UBR43.1501	40	CM1	12.065	25	23	-	50
UBR43.1502	40	CM2	17.780	32	33	-	60
UBR43.1503	40	CM3	23.825	40	63	-	90
UBR43.1504	40	CM4	31.267	48	103	-	130
UBR43.3504*	40	CM4	31.267	63	103	15	130
UBR53.1501	50	CM1	12.065	25	7	-	45
UBR53.1502	50	CM2	17.780	32	12	-	50
UBR53.1503	50	CM3	23.825	40	27	-	65
UBR53.1504	50	CM4	31.267	48	42	-	80
UBR53.3504*	50	CM4	31.267	63	42	15	80
UBR53.1505	50	CM5	44.399	63	77	-	115
UBR53.3505*	50	CM5	44.399	78	77	18	115

Exemplo para pedido / Ordering example: 01 pç - **UBR33.1503**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Different dimensions of the standard, available upon request.
- Sem refrigeração / Without coolant supply.

PORTA MANDRIL CONE DIN ISO 238-B
 DRILL CHUCKS HOLDER - TAPER ARBOR DIN ISO 238-B

DIN ISO 238-B

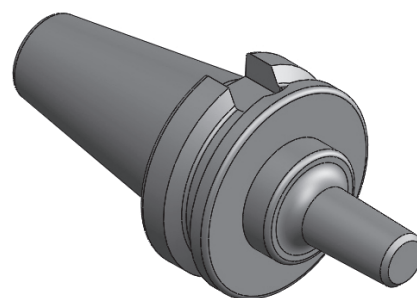
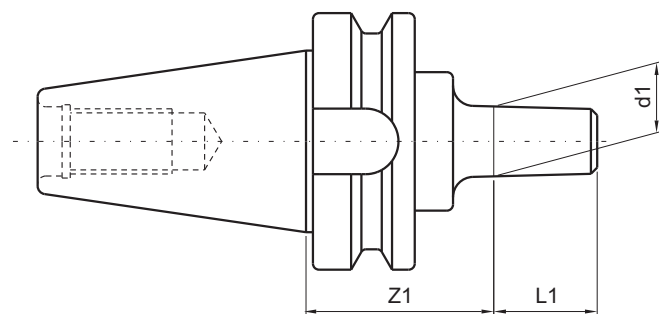


CÓDIGO/CODE	ISO	DIN 238	d1	L1	Z1
UBR33.0610	30	B10	(Ø10.094)	14.50	27
UBR33.0612	30	B12	(Ø12.065)	18.50	27
UBR33.0616	30	B16	(Ø15.733)	24	27
UBR33.0618	30	B18	(Ø17.780)	32	27
UBR43.0610	40	B10	(Ø10.094)	14.50	45
UBR43.0612	40	B12	(Ø12.065)	18.50	45
UBR43.0616	40	B16	(Ø15.733)	24	45
UBR43.0618	40	B18	(Ø17.780)	32	45
UBR53.0610	50	B10	(Ø10.094)	14.50	55
UBR53.0612	50	B12	(Ø12.065)	18.50	55
UBR53.0616	50	B16	(Ø15.733)	24	55
UBR53.0618	50	B18	(Ø17.780)	32	55
UBR53.0622	50	B22	(Ø21.793)	40.50	55
UBR53.0624	50	B24	(Ø23.825)	50.50	55

Exemplo para pedido / Ordering example: 01 pc - **UBR33.0616**

PORTA MANDRIL CONE DIN ISO 239 (JACOB'S)
 DRILL CHUCKS HOLDER - TAPER ARBOR DIN ISO 239 (JACOBS)

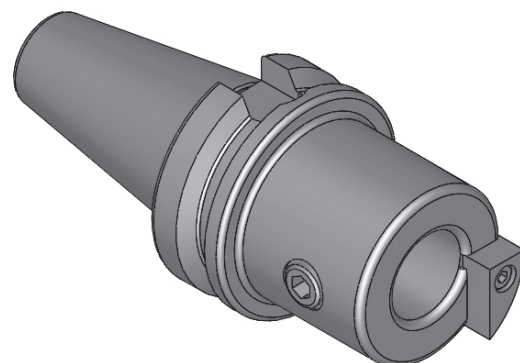
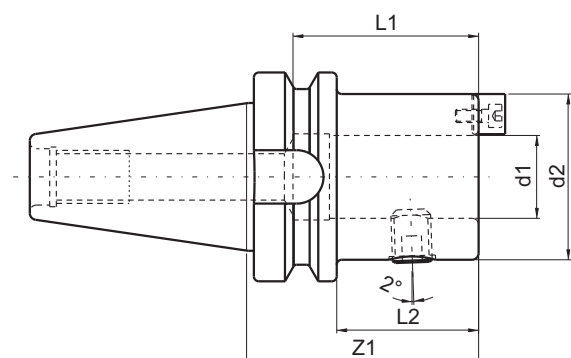
DIN ISO 239



CÓDIGO/CODE	ISO	DIN 239	d1	L1	Z1
UBR33.1602	30	J2	(Ø14.199)	22.225	32
UBR33.1633	30	J33	(Ø15.850)	25.40	32
UBR33.1606	30	J6	(Ø17.170)	25.40	32
UBR43.1602	40	J2	(Ø14.199)	22.225	50
UBR43.1633	40	J33	(Ø15.850)	25.40	50
UBR43.1606	40	J6	(Ø17.170)	25.40	50
UBR53.1633	50	J33	(Ø15.850)	25.40	65
UBR53.1606	50	J6	(Ø17.170)	25.40	65
UBR53.1603	50	J3	(Ø20.599)	30.956	65

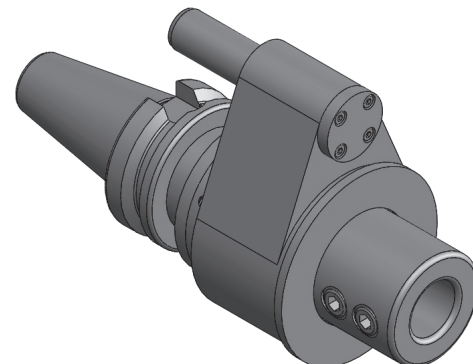
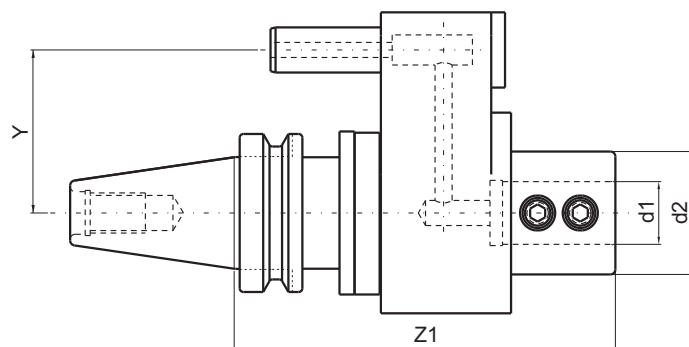
Exemplo para pedido / Ordering example: 01 pc - **UBR33.1606**

- Dimensões diferentes do padrão, disponíveis sob consulta.
 Different dimensions of the standard, available upon request.
- Sem refrigeração / Without coolant supply.

PORTA-BROCAS PARA HASTE COROMANT WHISTLE NOTCH
DRILL HOLDER FOR COROMANT WHISTLE NOTCH SHANK


CÓDIGO/CODE	ISO	d1	d2	L1	L2	Z1
UBR33.0120	30	20	40	51	38	60
UBR33.0125	30	25	50	56	48	70
UBR43.0120	40	20	40	51	33	60
UBR43.0125	40	25	50	56	43	70
UBR43.0132	40	32	63	60	48	75
UBR53.0120	50	20	40	51	32	70
UBR53.0125	50	25	50	56	37	75
UBR53.0132	50	32	63	60	37	75
UBR53.0140	50	40	72	70	42	80

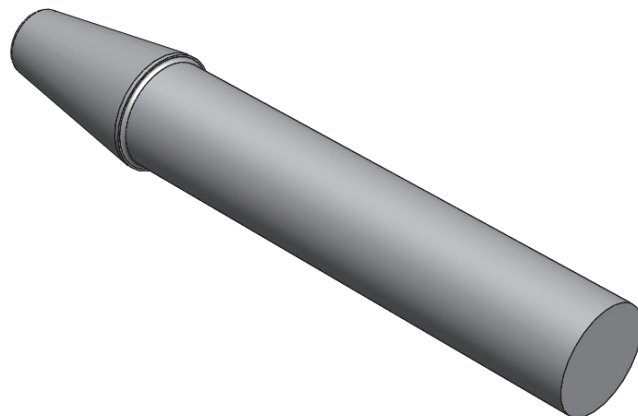
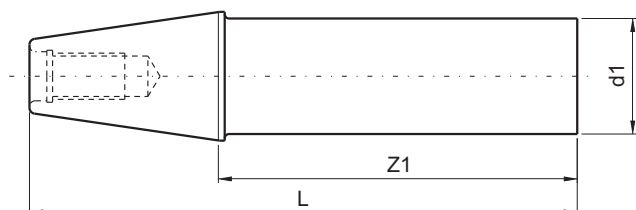
Exemplo para pedido / Ordering example: 01 pc - **UBR43.0120**

INDUTOR PARA REFRIGERAÇÃO CENTRAL
THROUGH COOLANT INDUCERS


CÓDIGO/CODE	ISO	d1	d2	Y	Z1
UBR43.3220	40	20	50	65	152
UBR43.3225	40	25	50	65	152
UBR43.3232	40	32	50	65	152
UBR53.3225	50	25	50	80	152
UBR53.3232	50	32	50	80	152
UBR53.3240	50	40	60	80	165

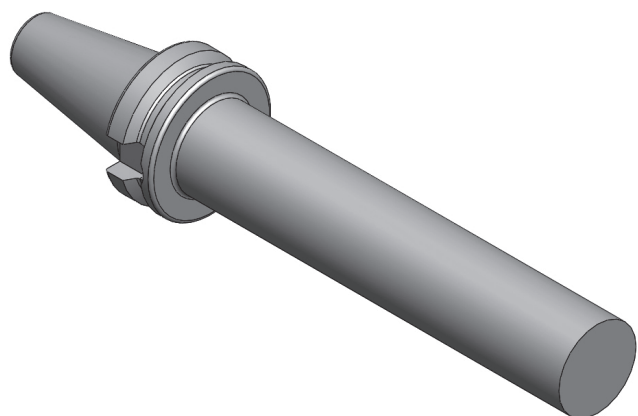
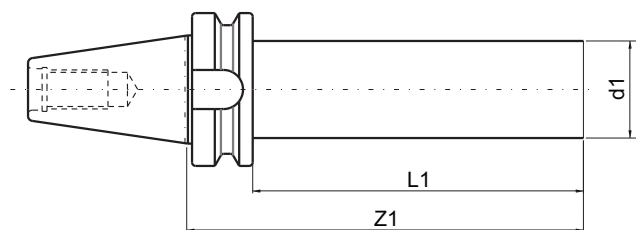
Exemplo para pedido / Ordering example: 01 pc - **UBR43.3225**

- Dimensões diferentes do padrão, disponíveis sob consulta.
Differents dimensions of the standard, available upon request.
- Com passagem interna de fluido refrigerante.
Internal coolant supply.

EIXO PADRÃO
TEST BARS


CÓDIGO/CODE	ISO	d1	L	Z1
UBR99.2630	30	30	278.40	250
UBR99.2640	40	40	395.40	300
UBR99.2650	50	50	431.80	350

Exemplo para pedido / Ordering example: 01 pç - **UBR99.2650-BT**

EIXO PADRÃO COM FLANGE
TEST BARS WITH FLANGE


CÓDIGO/CODE	ISO	d1	L1	Z1
UBR99.2630-BT	30	30	208.00	250
UBR99.2640-BT	40	40	302.80	300
UBR99.2650-BT	50	50	291.80	350

Exemplo para pedido / Ordering example: 01 pç - **UBR99.2650-BT-FL**

CARACTERÍSTICAS / FEATURES

- Concentricidade máxima entre o cone e d1: 0.005mm
Maximum runout on the cylindrical d1 in reference to the taper: 0.005mm
- Para verificação de desvios geométricos da máquina ferramenta.
For geometry deviation checking of the machine tools.
- Fornecido sem flange / Without flange supply.
- Dimensões diferentes do padrão, disponíveis sob consulta.
Differents dimensions of the standard, available upon request.