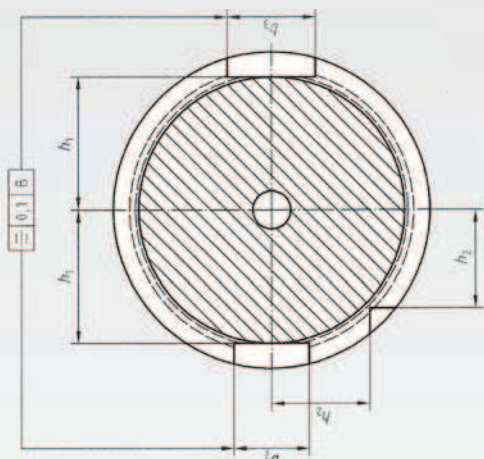


Kegel-Hohlschäfte mit Plananlage
 Teil 1: Kegel-Hohlschäfte Form A und Form C
 Maße und Ausführung

May 2003
 DIN
 69893-1
 Ersatz für
 DIN 69893-1:1996-01

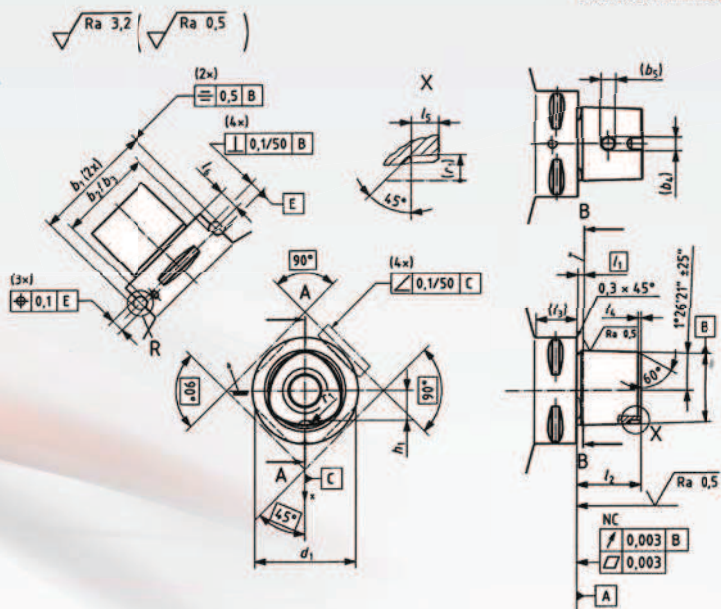


INTERNATIONAL
 STANDARD

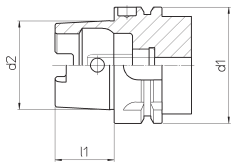
ISO
 26623-1

First edition
 2008-11-15

Dimensions in millimetres

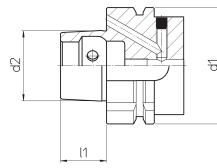


HSK-A



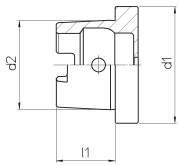
HSK-A	d1	d2	l1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32
80	80	60	40
100	100	75	50

HSK-B



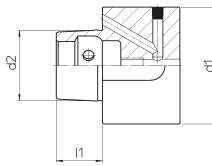
HSK-B	d1	d2	l1
-	-	-	-
40	40	24	16
50	50	30	20
63	63	38	25
80	80	48	32
100	100	60	40

HSK-C



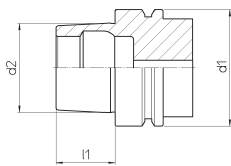
HSK-C	d1	d2	l1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32
80	80	60	40
100	100	75	50

HSK-D



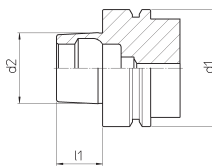
HSK-D	d1	d2	l1
-	-	-	-
40	40	24	16
50	50	30	20
63	63	38	25
80	80	48	32
100	100	60	40

HSK-E



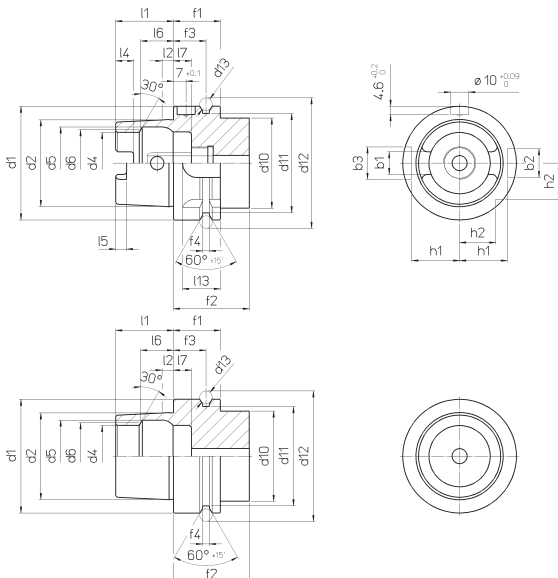
HSK-E	d1	d2	l1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32
-	-	-	-

HSK-F



HSK-F	d1	d2	l1
-	-	-	-
-	-	-	-
50	50	30	20
63	63	38	25
80	80	48	32

HSK-A HSK-E

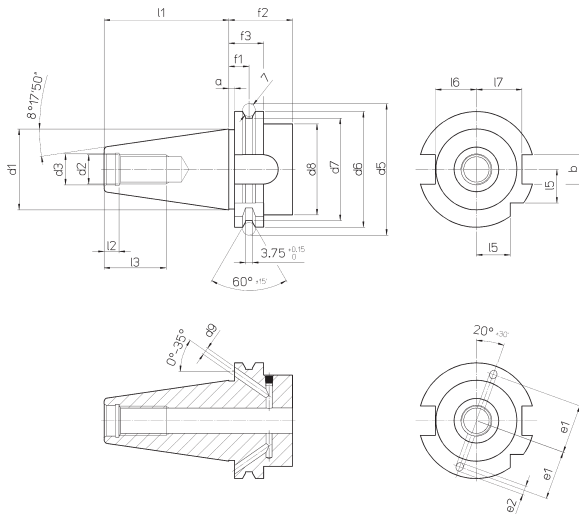


HSK	32	40	50	63	80	100
b1 ^{+0.04} / _{-0.04}	7.05	8.05	10.54	12.54	16.04	20.02
b2 H10	7	9	12	16	18	20
b3 H10	9	11	14	18	20	22
d1 H10	32	40	50	63	80	100
d2	24 ^{+0.007} / _{+0.005}	30 ^{+0.007} / _{+0.005}	38 ^{+0.009} / _{+0.006}	48 ^{+0.011} / _{+0.007}	60 ^{+0.013} / _{+0.008}	75 ^{+0.015} / _{+0.009}
d4 H10	17	21	26	34	42	53
d5 H11	21	25.5	32	40	50	63
d6	19	23	29	37	46	58
d10 max.	26	34	42	53	67	85
d11 ⁰ / _{-0.01}	26.5	34.8	43	55	70	92
d12 ⁰ / _{-0.01}	37	45	59.3	72.3	88.8	109.75
d13	4		7			
f1 ⁰ / _{-0.01}	20		26			
f2 min.	35		42			
f3 ± 0.01	16		18			
f4 ^{+0.15} / ₀	2		3.75			
h1 ⁰ / _{-0.2}	13	17	21	26.5	34	44
h2 ⁰ / _{-0.13}	9.5	12	15.5	20	25	31.5
l1 ⁰ / _{-0.2}	16	20	25	32	40	50
l2	3.2	4	5	6.3	8	10
l4 ^{+0.2} / ₀	5	6	7.5	10	12	15
l5 ^{+0.2} / ₀	3	3.5	4.5	6	8	10
l6 JS10	8.92	11.42	14.13	18.13	22.85	28.56
l7 ⁰ / _{-0.1}	8		10	10	12.5	12.5
l13	12		19	21	22	24



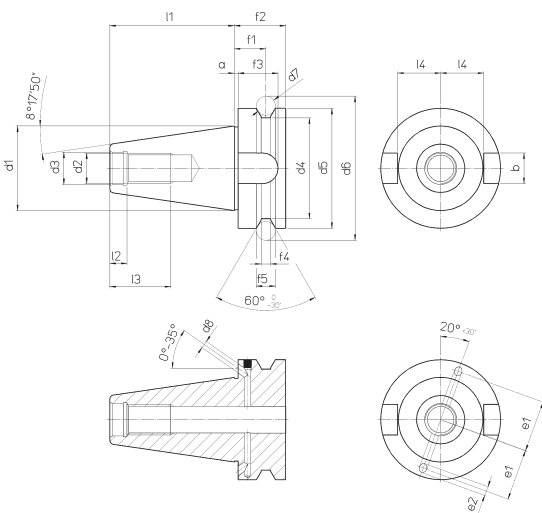
- ARBORS STANDARDS
- НОРМЫ ПО ДЕРЖАТЕЛЯМ
- NORMY DOTYCZĄCE PODSTAWOWYCH UCHWYTÓW
- NORMY VŘETEN
- MALAFA STANDARTLARI

DIN 69871 A-B



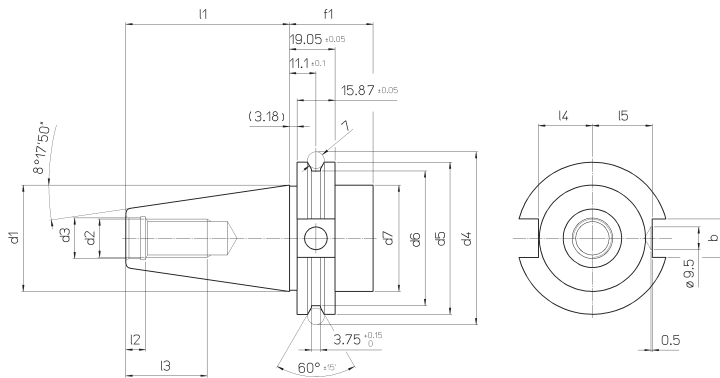
ISO	30	40	45	50	60
a ± 0.01	3.2				
b H12	16.1		19.3	25.7	
d1	31.75	44.45	57.15	69.85	107.95
d2	M12	M16	M20	M24	M30
d3 H7	13	17	21	25	32
d5 ± 0.05	59.3	72.3	91.35	107.25	164.75
d6 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	50	63.55	82.55	97.50	155
d7 $\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$	44.3	56.25	75.25	91.25	147.70
d8 max.	45	50	63	80	130
d9	4		5	6	8
e1 ± 0.1	21	27	35	42	66
e2 max.	5		6	7	9.2
f1 ± 0.1	11.1				
f2 min.	35				38
f3 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	19.1				
l1 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	47.8	68.4	82.7	101.75	161.80
l2 $\begin{smallmatrix} +0.5 \\ 0 \end{smallmatrix}$	5.5	8.2	10	11.5	14
l3 min.	24	32	40	47	59
l5 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	15	18.5	24	30	49
l6 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	16.4	22.8	29.1	35.5	54.5
l7 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	19	25	31.3	37.7	59.3

MAS 403 BT A-B



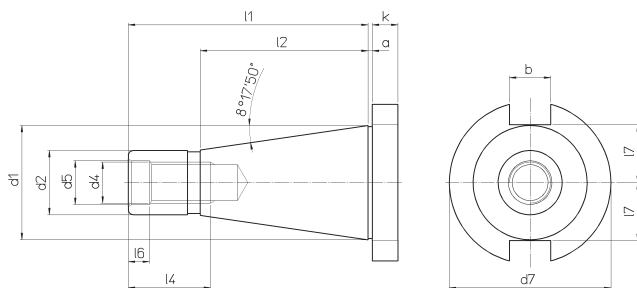
ISO	30	35	40	45	50	60
a ± 0.04	2			3		
b H12	16.1			19.3	25.7	25.7
d1	31.75	38.10	44.45	57.15	69.85	107.95
d2	M 12		M 16	M 20	M 24	M 30
d3 H8	12.5		17	21	25	31
d4	38	43	53	73	85	135
d5 H8	46	53	63	85	100	155
d6	56.144	65.680	75.679	100.215	119.019	180.359
d7	8	10		12	15	20
d8	4			5	6	8
e1 ± 0.1	21	23	27	35	42	66
e2 max.	5			6	7	9.2
f1 ± 0.1	13.6	14.6	16.6	21.2	23.2	28.2
f2	22	24	27	33	38	4.8
f3 min.	17	20	21	26	31	34
f4	4	5		6	7	11
f5 $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	8	10		12	15	20
l1 ± 0.2	48.4	56.4	65.4	82.8	101.8	161.8
l2 $\begin{smallmatrix} +0.5 \\ 0 \end{smallmatrix}$	7		9	11	13	16
l3 min.	24		30	38	45	56
l4 $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	16.3	19.6	22.6	29.1	35.4	60.1

ANSI/CAT

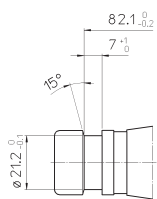


ISO	ANSI/CAT			
	40	45	50	
b	$^{+0.2}_0$	16.1	19.3	25.7
d1		44.45	57.15	69.85
d2		M 16	M 20	M 24
d3	H7	17	21	25
d4	± 0.05	72.3	91.35	107.25
d5	$^0_{-0.1}$	63.55	82.55	98.45
d6	$^0_{-0.5}$	56.25	75.25	91.25
d7	± 0.25	44.45	57.15	69.85
f1	± 0.25	35		36.5
l1	$^0_{-0.3}$	68.4	82.7	101.75
l2	$^{+0.5}_0$	4.75	5.25	5.75
l3	min.	30	38	45
l4	$^0_{-0.4}$	22.8	29.10	35.50
l5	$^0_{-0.4}$	25	31.3	37.7

DIN 2080



ISO	DIN 2080				
	30	40	45	50	
a	± 0.2	1.6	3.2		
b	H12	16.1	19.3	25.7	
d1		31.75	44.45	57.15	69.85
d2	a10	17.4	25.3	32.4	39.6
d4	± 0.05	M 12	M 16	M 20	M 24
d5		13	17	21	26
d7	$^0_{-0.4}$	50	63	80	97.5
k	± 0.15	8	10	12	12
l1		68.4	93.4	106.8	126.8
l2		48.4	65.4	82.8	101.8
l4		24	32	40	47
l6	$^{+0.5}_0$	5.5	8.2	10	11.5
l7	max.	16.2	22.5	29	35.3

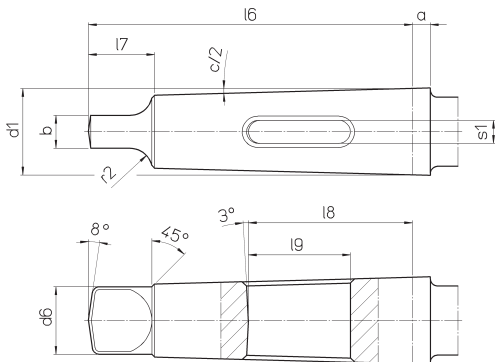


ISO 40 OTT



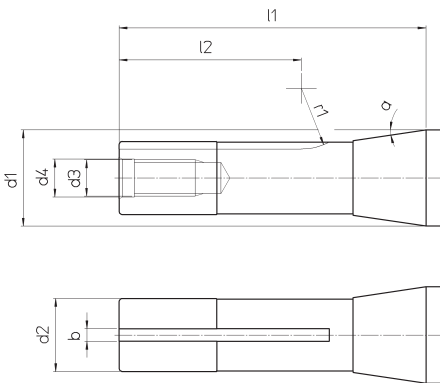
- ARBORS STANDARDS
- НОРМЫ ПО ДЕРЖАТЕЛЯМ
- NORMY DOTYCZĄCE PODSTAWOWYCH UCHWYTÓW
- NORMY VŘETEN
- MALAFA STANDARTLARI

DIN 228/B DIN 1806



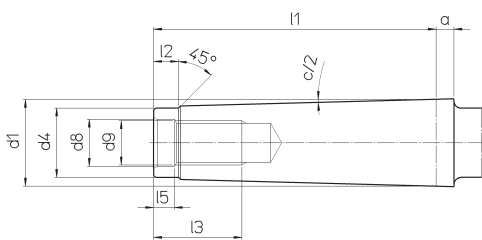
MORSE	4	5
a	6.5	
b H13	11.9	15.9
c/2	1°29'15"	1°30'26"
d1	31.267	44.399
d6 max.	24.5	35.7
l6 $\begin{smallmatrix} 0 \\ -1 \end{smallmatrix}$	117.5	149.5
l7 max.	24	29
l8	59.5	64
l9	37	42
r2	8	10
s1	8.3	12.4

R8



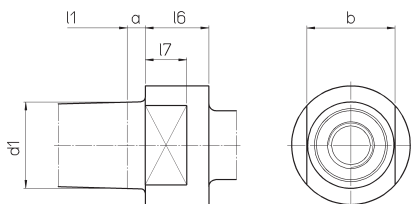
R8	
a	8°25'30"
b ±0.1	4.2
d1	31.750
d2	24.109
d3 $\begin{smallmatrix} -0.007 \\ -0.020 \end{smallmatrix}$	M 12
d4	12.5
l1	101
l2 min.	60
r1	20

DIN 228/A

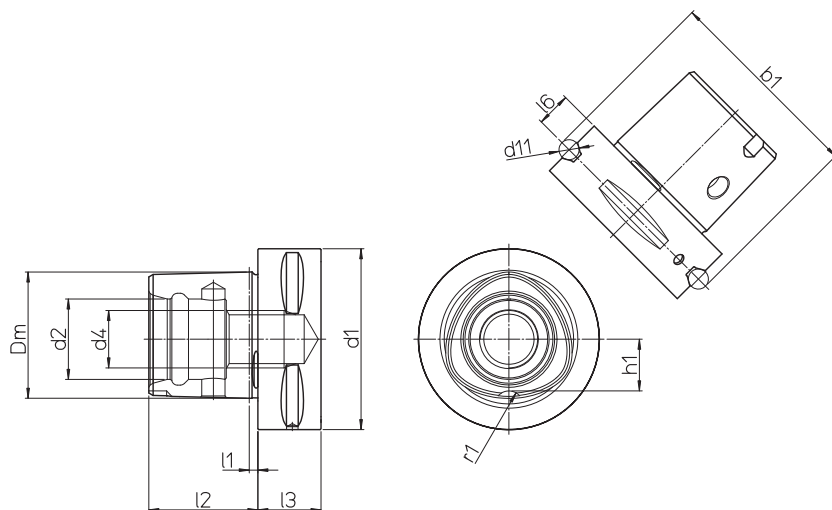


MORSE	4	4 SIP
a	6.5	
b d9	32	
c/2	1°29'15"	
d1	31.267	
d4 max.	25	
d8	17	
d9	M 16	M 14
l1 max.	102.5	
l2	9	
l3	32	
l5 $\begin{smallmatrix} +0.5 \\ 0 \end{smallmatrix}$	8.2	
l6	15	
l7	23	

DIN 2207



ISO 26623-1



PSC	40	50	63	80	100
b1 ±0.1	46	59.3	70.7	86	110
Dm	28	35	44	55	72
d1 ±0.1	40	50	63	80	100
d2 ^{+0.1} / _{-0.05}	18	21	28	32	43.025
d4	M14x1.5	M16x1.5	M20x2		M24x2
d11	5	7			10
l1	2.5	3			
l2 ±0.1	24	30	38	48	60
l3 min	20		22	30	36
l6 ±0.15	8	10	12		16
h1 ±0.1	11	14	18	22.2	29
r1 ⁺² / ₀	3	4	5	6	8



WINTOOL

EN It allows to be graphically constructed in a short period of time, showing the complete composition of the Modulhard'Andrea tools, including dimensions, weight and the list of components.

RU Графический генератор, позволяющий в короткое время подобрать полный состав элементов MODULHARD'ANDREA, с указанием размеров, веса и списка компонентов.

PL Generator graficzny pozwalający w krótkim czasie skompletować zestaw narzędziowy z elementów systemu MODULHARD'ANDREA, podając jednocześnie wymiary, masę i kompletną listę wykorzystanych elementów..

CZ Umožňuje konstrukci v grafické podobě v krátké době a se zobrazením úplné sestavy nástrojů Modulhard'Andrea včetně rozměrů, hmotnosti a seznamu komponent.

TR Kısa sürede grafik olarak yapılandırılabilmesi sayesinde, tüm Modulhard'Andrea takımlarını ebatları, ağırlıkları ve bileşen listeleriyle birlikte verir.

