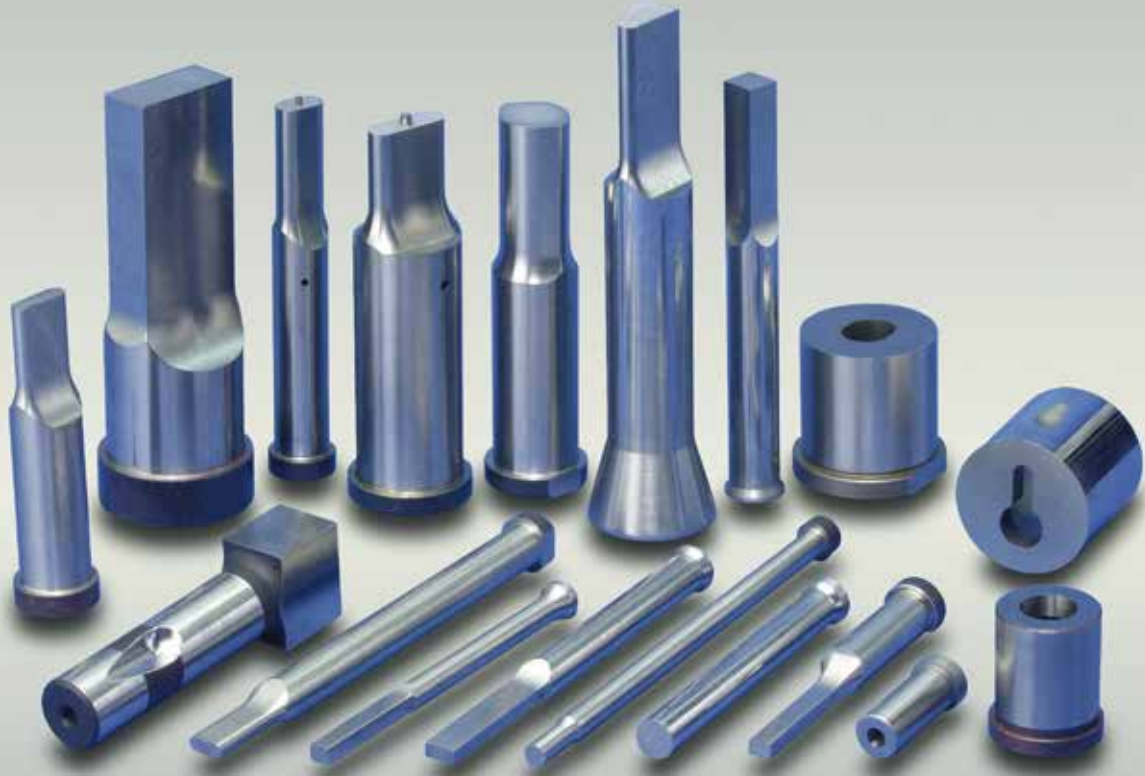




Märkische Stanz-Partner



[schneidelemente]
[cuttingelements]

Stand / Revision Status 30.10.2020



Inhalt Katalog 1: Stanznormalien (D)

Content Catalogue 1: Standard die components (D)

STANZNORMALIEN / STANDARD DIE COMPONENTS

Artikel Article	Best.-Nr. Order no.	Seite Page
A		
Aufwerferstifte, gehärtet, DIN 1530 A – ISO 6750	TH 750	TH 9
Auswerferstifte, DIN 1530 Form D	TH 751	TH 10

Ein „Klick“ auf Artikelbezeichnung, Bestell-Nummer oder Seite im vorangestellten Inhaltsverzeichnis bringt Sie zum gewünschten Artikel.

„Clicking“ on the Article name, the Order- or Page-no. in the main table of contents opens the corresponding article-page.

Inhalt				
Content				
SCHNEIDELEMENTE / CUTTING ELEMENTS				
	Schneidstempel	Punches	Best.-Nr. Order no.	Seite Page
	Schneidstempel DIN 9861, Form D, HSS	Punches DIN 9861, Form D, HSS	SE 775	SE.1

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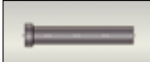
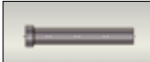
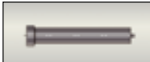
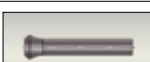


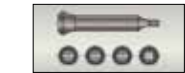
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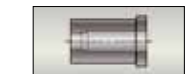


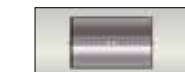
„Clicking“ on the RETURN-logo at the bottom of each catalog-page opens that specific register's table of contents.



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	Schneidstempel DIN 9861, Form C, abgesetzter Schaft, Typen F, O, R, S	Punches DIN 9861, Form C, shouldered shank, Types F, O, R, S	SE 786	SE.4
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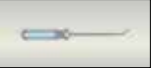
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	<u>Schneidstempel Posaunenhals abgesetzter Schaft, mit federndem Auswerferstift, Typen EPF, EPO, EPR, EPS</u>	<u>Punches trumpet head, shouldered shank with spring ejector,</u> <u>Types EPF, EPO, EPR, EPS</u>	SE 755 . . .	SE.22
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	<u>Schneidstempel mit Rechteckprofil über die Gesamtlänge, mit Senkkopf</u>	<u>Punches with rectangular shape over the total length with countersunk head</u>	SE 748 SE 749	SE.32
	<u>Schneidstempel mit Rechteckprofil über die Gesamtlänge</u>	<u>Punches with rectangular shape over the total length</u>	SE 738 SE 739	SE.33
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	Schneidbuchsen	Die buttons	Best.-Nr. Order no.	Seite Page
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	<u>Schneidbuchsen ohne Bund, Typen EDF, EDO, EDR, EDS, ISO 8977A</u>	<u>Die buttons without collar</u> <u>Types EDF, EDO, EDR, EDS, ISO 8977A</u>	SE 715 . . .	SE.39
	<u>Schneidbuchsen mit Bund</u> <u>Typen EKDF, EKDO, EKDR, EKDS, ISO 8977B</u>	<u>Die buttons with collar</u> <u>Types EKDF, EKDO, EKDR, EKDS, ISO 8977B</u>	SE 717	SE.40
	<u>Schneidbuchsen mit Startlochbohrung durchgehend, Type EDL, ohne Bund ISO 8977A</u>	<u>Die buttons with start hole, Type EDL, without collar, ISO 8977A</u>	SE 711 EDL	SE.41
	<u>Schneidbuchsen mit Startlochbohrung durchgehend, Type EKDL, mit Bund ISO 8977B</u>	<u>Die buttons with start hole, Type EKDL, with collar, ISO 8977B</u>	SE 713 EKDL	SE.42
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	<u>Schnellwechsel-Schneidstempel, schwere Ausführung, abgesetzter Schaft, mit federndem Auswerferstift</u>	<u>Ball lock punches, heavy duty, shouldered shank, with spring ejector</u>	SE 321	SE.50
	<u>Schnellwechsel-Schneidstempel, schwere Ausführung, abgesetzter Schaft Typen O, S, H, L</u>	<u>Ball lock punches, heavy duty, shouldered shank</u> <u>Types O, S, H, L</u>	SE 302 .	SE.51
	<u>Schnellwechsel-Schneidstempel, schwere Ausführung, abgesetzter Schaft Typen O, S, H, L, mit fed. Auswerferst.</u>	<u>Ball lock punches, heavy duty, shouldered shank, Types O, S, H, L, with spring ejector</u>	SE 322 .	SE.52
	<u>Schnellwechsel-Schneidstempel, schwere Ausführung, Schneide > Schaft</u>	<u>Ball lock punches, heavy duty, inverted</u>	SE 303	SE.53
	<u>Schnellwechsel-Schneidstempel, schwere Ausführung, Schneide > Schaft, mit federndem Auswerferstift</u>	<u>Ball lock punches, heavy duty, inverted, with spring ejector</u>	SE 323	SE.54
	<u>Schnellwechsel-Schneidstempel, schwere Ausführung, Schneide > Schaft, Typen O, S, H, L</u>	<u>Ball lock punches, heavy duty, inverted, Types O, S, H, L</u>	SE 304 .	SE.55

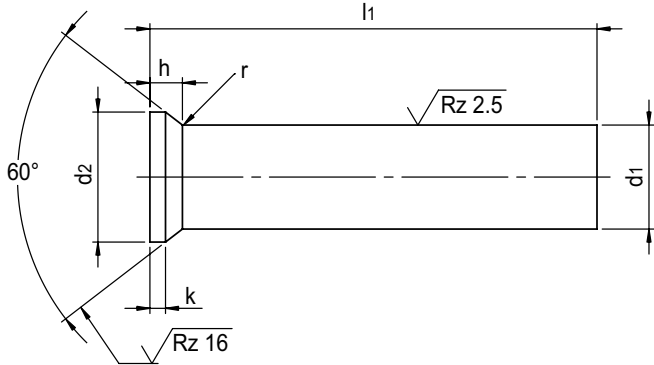
	Schnellwechsel-Schneidelemente	Ball lock cutting elements	Best.-Nr. Order no.	Seite Page
	<u>Schnellwechsel-Schneidstempel, schw. Ausführung, Schneide > Schaft, Typen O, S, H, L, mit fed. Auswerferst.</u>	<u>Ball lock punches, heavy duty, inverted, Types O, S, H, L, with spring ejector</u>	SE 324 .	SE.56
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SE 775	Mat.: HSS Härte Schaft: 64 ±2 HRC Kopf: 50 ±5 HRC	Mat.: HSS (e.g. M2) Hardness shank: 64 ±2 HRC Head: 50 ±5 HRC	 SE 775 / 2,50 x 100
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Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).



Punches with rotation prevention available, please specify when ordering.



d1 h6	d2 ±0,05	h +0,2	k +0,2	r	l1 +0,5			
					71	80	100	130
0,50	0,9	0,55	0,2	0,2 ^{+0,2}	●	●	●	
0,55	1,0	0,59	0,2	0,2 ^{+0,2}	●	●	●	
0,60	1,1	0,63	0,2	0,2 ^{+0,2}	●	●	●	
0,65	1,2	0,68	0,2	0,2 ^{+0,2}	●	●	●	
0,70	1,3	0,72	0,2	0,2 ^{+0,2}	●	●	●	
0,75	1,3	0,68	0,2	0,2 ^{+0,2}	●	●	●	
0,80	1,4	0,92	0,4	0,2 ^{+0,2}	●	●	●	
0,85	1,4	0,88	0,4	0,2 ^{+0,2}	●	●	●	
0,90	1,6	1,01	0,4	0,2 ^{+0,2}	●	●	●	
0,95	1,6	0,96	0,4	0,2 ^{+0,2}	●	●	●	
1,00	1,8	1,19	0,5	0,4 ^{+0,3}	●	●	●	
1,10	1,8	1,11	0,5	0,4 ^{+0,3}	●	●	●	
1,20	2,0	1,19	0,5	0,4 ^{+0,3}	●	●	●	
1,30	2,0	1,11	0,5	0,4 ^{+0,3}	●	●	●	
1,40	2,2	1,19	0,5	0,4 ^{+0,3}	●	●	●	
1,50	2,2	1,11	0,5	0,4 ^{+0,3}	●	●	●	
1,60	2,5	1,28	0,5	0,4 ^{+0,3}	●	●	●	
1,70	2,5	1,19	0,5	0,4 ^{+0,3}	●	●	●	
1,80	2,8	1,37	0,5	0,4 ^{+0,3}	●	●	●	
1,90	2,8	1,28	0,5	0,4 ^{+0,3}	●	●	●	
2,00	3,0	1,37	0,5	0,4 ^{+0,3}	●	●	●	
2,10	3,2	1,45	0,5	0,4 ^{+0,3}	●	●	●	
2,20	3,2	1,37	0,5	0,4 ^{+0,3}	●	●	●	
2,30	3,5	1,54	0,5	0,4 ^{+0,3}	●	●	●	
2,40	3,5	1,45	0,5	0,4 ^{+0,3}	●	●	●	
2,50	3,5	1,37	0,5	0,4 ^{+0,3}	●	●	●	
2,60	4,0	1,71	0,5	0,4 ^{+0,3}	●	●	●	
2,70	4,0	1,63	0,5	0,4 ^{+0,3}	●	●	●	
2,80	4,0	1,54	0,5	0,4 ^{+0,3}	●	●	●	
2,90	4,0	1,45	0,5	0,4 ^{+0,3}	●	●	●	
3,00	4,5	1,80	0,5	0,6 ^{+0,4}	●	●	●	
3,10	4,5	1,71	0,5	0,6 ^{+0,4}	●	●	●	●
3,20	4,5	1,63	0,5	0,6 ^{+0,4}	●	●	●	●
3,30	4,5	1,54	0,5	0,6 ^{+0,4}	●	●	●	●
3,40	4,5	1,45	0,5	0,6 ^{+0,4}	●	●	●	●
3,50	5,0	1,80	0,5	0,6 ^{+0,4}	●	●	●	●
3,60	5,0	1,71	0,5	0,6 ^{+0,4}	●	●	●	●
3,70	5,0	1,63	0,5	0,6 ^{+0,4}	●	●	●	●
3,80	5,0	1,54	0,5	0,6 ^{+0,4}	●	●	●	●
3,90	5,0	1,45	0,5	0,6 ^{+0,4}	●	●	●	●
4,00	5,5	1,80	0,5	0,6 ^{+0,4}	●	●	●	●
4,10	5,5	1,71	0,5	0,6 ^{+0,4}	●	●	●	●
4,20	5,5	1,63	0,5	0,6 ^{+0,4}	●	●	●	●
4,30	5,5	1,54	0,5	0,6 ^{+0,4}	●	●	●	●
4,40	5,5	1,45	0,5	0,6 ^{+0,4}	●	●	●	●
4,50	6,0	1,80	0,5	0,6 ^{+0,4}	●	●	●	●
4,60	6,0	1,71	0,5	0,6 ^{+0,4}	●	●	●	●
4,70	6,0	1,63	0,5	0,6 ^{+0,4}	●	●	●	●

Schneidstempel DIN 9861, Form D

Punches DIN 9861, Form D

SCHNEIDELEMENTE / CUTTING ELEMENTS

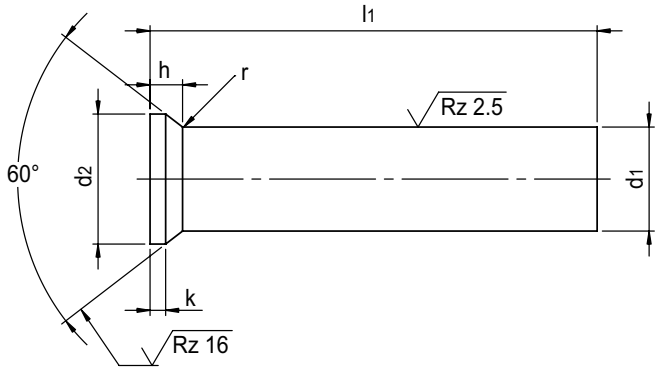
SE 775

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 775 / 2,50 x 100

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).



Punches with rotation prevention available, please specify when ordering.



d1 h6	d2 ±0,05	h +0,2	k +0,2	r	l1 +0,5			
					71	80	100	130
4,80	6,0	1,54	0,5	0,6+0,4	●	●	●	●
4,90	6,0	1,45	0,5	0,6+0,4	●	●	●	●
5,00	6,5	1,80	0,5	0,6+0,4	●	●	●	●
5,10	6,5	1,71	0,5	0,6+0,4	●	●	●	●
5,20	6,5	1,63	0,5	0,6+0,4	●	●	●	●
5,30	6,5	1,54	0,5	0,6+0,4	●	●	●	●
5,40	6,5	1,45	0,5	0,6+0,4	●	●	●	●
5,50	7,0	1,80	0,5	0,6+0,4	●	●	●	●
5,60	7,0	1,71	0,5	0,6+0,4	●	●	●	●
5,70	7,0	1,63	0,5	0,6+0,4	●	●	●	●
5,80	7,0	1,54	0,5	0,6+0,4	●	●	●	●
5,90	7,0	1,45	0,5	0,6+0,4	●	●	●	●
6,00	8,0	2,23	0,5	1,0+0,5	●	●	●	●
6,10	8,0	2,15	0,5	1,0+0,5	●	●	●	●
6,20	8,0	2,06	0,5	1,0+0,5	●	●	●	●
6,30	8,0	1,97	0,5	1,0+0,5	●	●	●	●
6,40	8,0	1,89	0,5	1,0+0,5	●	●	●	●
6,50	9,0	3,17	1,0	1,0+0,5	●	●	●	●
7,00	9,0	2,73	1,0	1,0+0,5	●	●	●	●
7,50	10,0	3,17	1,0	1,0+0,5	●	●	●	●
8,00	10,0	2,73	1,0	1,0+0,5	●	●	●	●
8,50	11,0	3,17	1,0	1,0+0,5	●	●	●	●
9,00	11,0	2,73	1,0	1,0+0,5	●	●	●	●
9,50	12,0	3,17	1,0	1,0+0,5	●	●	●	●
10,00	12,0	2,73	1,0	1,0+0,5	●	●	●	●
10,50	13,0	3,17	1,0	1,0+0,5	●	●	●	●
11,00	13,0	2,73	1,0	1,0+0,5	●	●	●	●
11,50	14,0	3,17	1,0	1,0+0,5	●	●	●	●
12,00	14,0	2,73	1,0	1,0+0,5	●	●	●	●
12,50	15,0	3,17	1,0	1,0+0,5	●	●	●	●
13,00	15,0	2,73	1,0	1,0+0,5	●	●	●	●
13,50	16,0	3,67	1,5	1,5+0,5	●	●	●	●
14,00	16,0	3,23	1,5	1,5+0,5	●	●	●	●
14,50	17,0	3,67	1,5	1,5+0,5	●	●	●	●
15,00	17,0	3,23	1,5	1,5+0,5	●	●	●	●
15,50	18,0	3,67	1,5	1,5+0,5	●	●	●	●
16,00	18,0	3,23	1,5	1,5+0,5	●	●	●	●
16,50	19,0	3,67	1,5	1,5+0,5	●	●	●	●
17,00	19,5	3,23	1,5	1,5+0,5	●	●	●	●
17,50	20,0	3,67	1,5	1,5+0,5	●	●	●	●
18,00	20,5	3,23	1,5	1,5+0,5	●	●	●	●
18,50	21,0	3,67	1,5	1,5+0,5	●	●	●	●
19,00	21,5	3,23	1,5	1,5+0,5	●	●	●	●
19,50	22,0	3,67	1,5	1,5+0,5	●	●	●	●
20,00	22,5	3,23	1,5	1,5+0,5	●	●	●	●

Schneidstempel DIN 9861, Form C, abgesetzter Schaft

Punches DIN 9861, Form C, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 785

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

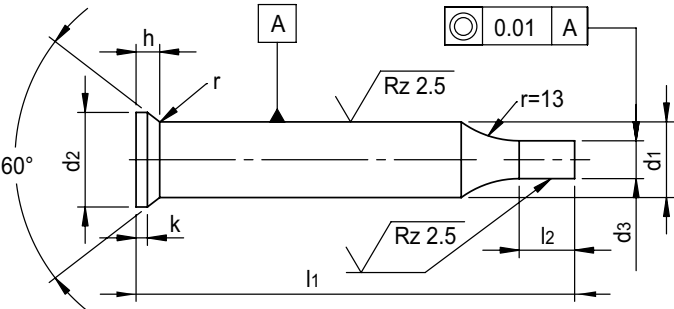
SE 785 /
5,0 x 71 / d3

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Länge l2 frei wählbar!
Fehlende Maße siehe SE 775 (Seite SE.1)

Length l2 freely selectable!
for missing dimensions please see SE 775 (page SE.1)

Punches with rotation prevention available, please specify when ordering.



d1 h6	d3 h6 Stufung/step 0,01	l2 +0,5	l1 +0,5			
			71	80	100	130
1,5	0,5 - 1,4	7	●	●	●	
2,0	0,5 - 1,9	7	●	●	●	
3,0	1,6 - 2,9	7	●	●	●	
4,0	1,6 - 3,9	10	●	●	●	●
5,0	2,5 - 4,9	10	●	●	●	●
6,0	3,0 - 5,9	10	●	●	●	●
8,0	4,0 - 7,9	13	●	●	●	●
10,0	5,0 - 9,9	17	●	●	●	●
13,0	9,0 - 12,9	17	●	●	●	●
16,0	12,0 - 15,9	17	●	●	●	●
20,0	16,0 - 19,9	17	●	●	●	●
25,0	20,0 - 24,9	17	●	●	●	●
32,0	25,0 - 31,9	17	●	●	●	●
38,0	30,0 - 37,9	17	●	●	●	●

Schneidstempel DIN 9861, Form C, abgesetzter Schaft

Punches DIN 9861, Form C, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 786 .

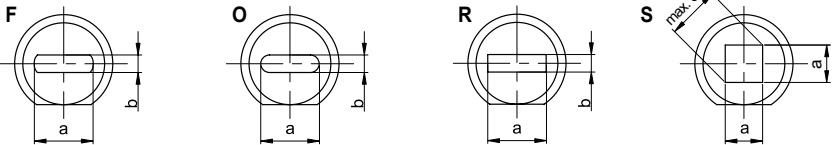
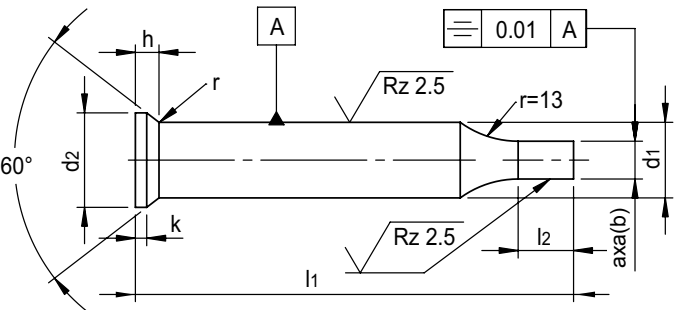
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 786 F /
8 x 80 / a x b

Länge l2 frei wählbar!
Stempel ohne Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).
Fehlende Maße siehe SE 775 (Seite SE.1)

Length l2 freely selectable!
Punches without rotation prevention available, please specify when ordering.
For missing dimensions please see SE 775 (page SE.1)



d1 h6	a x b ±0,01 Stufung/step 0,01 ≥ ≤	l2 +0,5	l1 +0,5			
			71	80	100	130
5	2,5 - 4,9	10	•	•	•	•
6	3,0 - 5,9	10	•	•	•	•
8	4,0 - 7,9	13	•	•	•	•
10	5,0 - 9,9	17	•	•	•	•
13	9,0 - 12,9	17	•	•	•	•
16	12,0 - 15,9	17	•	•	•	•
20	16,0 - 19,9	17	•	•	•	•
25	20,0 - 24,9	17	•	•	•	•
32	27,0 - 31,9	17	•	•	•	•
38	33,0 - 37,9	17	•	•	•	•

Schneidstempel Typ K, zylindrischer Kopf

Punches type K, cylindrical head

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 712

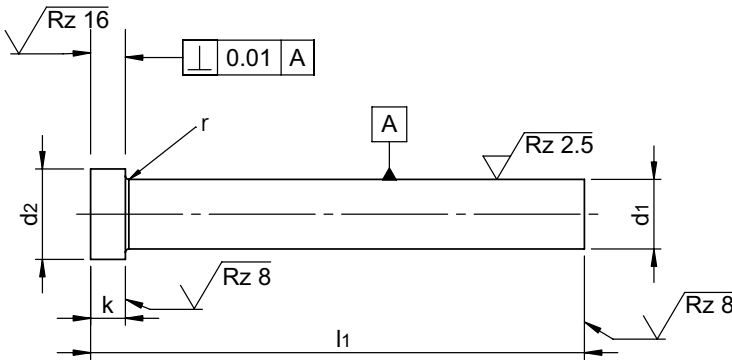
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 712 / 8 x 80

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Punches with rotation prevention available, please specify when ordering.



d1 m5	d2 -0,15	k +0,2 +0,1	r +0,1	l1 +0,5 +0,2					
				63	71	80	90	100	120
3	5	3	0,2	•	•	•	•	•	•
4	6	3	0,2	•	•	•	•	•	•
5	8	5	0,3	•	•	•	•	•	•
6	9	5	0,3	•	•	•	•	•	•
8	11	5	0,3	•	•	•	•	•	•
10	13	5	0,3	•	•	•	•	•	•
13	16	5	0,5	•	•	•	•	•	•
16	19	6	0,5	•	•	•	•	•	•
20	24	6	0,5	•	•	•	•	•	•
25	29	10	0,5	•	•	•	•	•	•
32	36	12	0,5	•	•	•	•	•	•
38	45	15	0,5	•	•	•	•	•	•

Schneidstempel Typ K ISO 8020, zylindrischer Kopf

Punches type K ISO 8020, cylindrical head

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 712 ISO

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

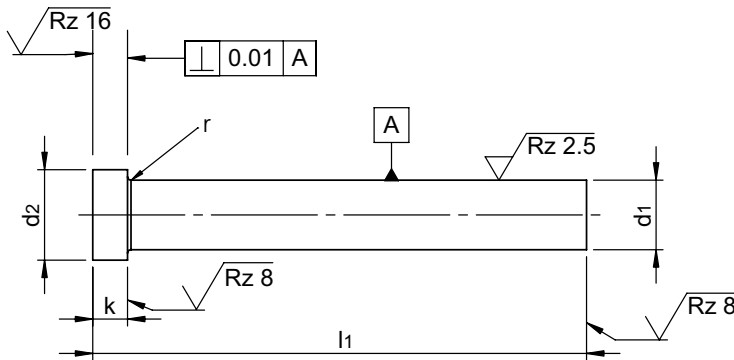
SE 712 ISO / 8 x 80

Stempel mit verstärkter Kopfhöhe auf Wunsch lieferbar (bei Bestellung angeben).

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Punches with rotation prevention available, please specify when ordering.

Punches with reinforced head height available, please specify when ordering.



d1 m5	d2 -0,15	k +0,2 +0,1	r +0,1	l1 +0,5 +0,2					
				63	71	80	90	100	120
3	5	3	0,2	●	●	●	●		
4	6	3	0,2	●	●	●	●	●	
5	8	5	0,3	●	●	●	●	●	●
6	9	5	0,3	●	●	●	●	●	●
8	11	5	0,3	●	●	●	●	●	●
10	13	5	0,3	●	●	●	●	●	●
13	16	5	0,5	●	●	●	●	●	●
16	19	5	0,5	●	●	●	●	●	●
20	23	5	0,5	●	●	●	●	●	●
25	28	5	0,5	●	●	●	●	●	●
32	35	5	0,5	●	●	●	●	●	●
38	41	5	0,5	●	●	●	●	●	●

Schneidstempel ISO 8020 mit federndem Auswerferstift

Punches ISO 8020 with spring ejector

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 737

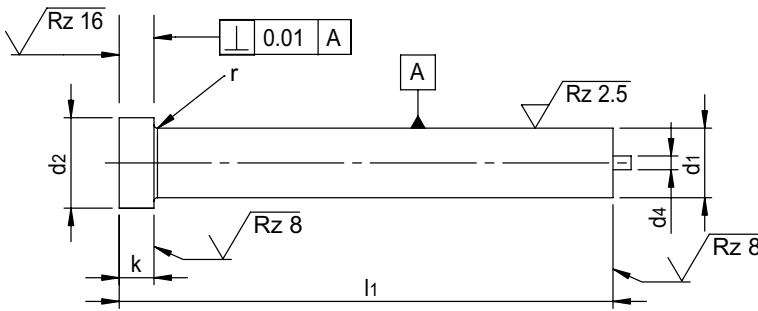
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 737 / 10 x 100

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Punches with rotation prevention available, please specify when ordering.



d1 m5	d2 -0,05	d4	k +0,2 +0,1	r +0,1	l1 +0,5 +0,2					
					63	71	80	90	100	120
5	8	1,0	5	0,3	●	●	●	●	●	
6	9	1,0	5	0,3	●	●	●	●	●	
8	11	1,5	5	0,3	●	●	●	●	●	●
10	13	1,5	5	0,3	●	●	●	●	●	●
13	16	1,5	5	0,5	●	●	●	●	●	●
16	19	2,3	5	0,5	●	●	●	●	●	●
20	23	2,3	5	0,5	●	●	●	●	●	●
25	28	2,3	5	0,5	●	●	●	●	●	●
32	35	3,0	5	0,5	●	●	●	●	●	●
38	41	3,0	5	0,5	●	●	●	●	●	●



Schneidstempel ISO 8020, Typ KP, abgesetzter Schaft

Punches ISO 8020, type KP, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 716 KP ISO

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

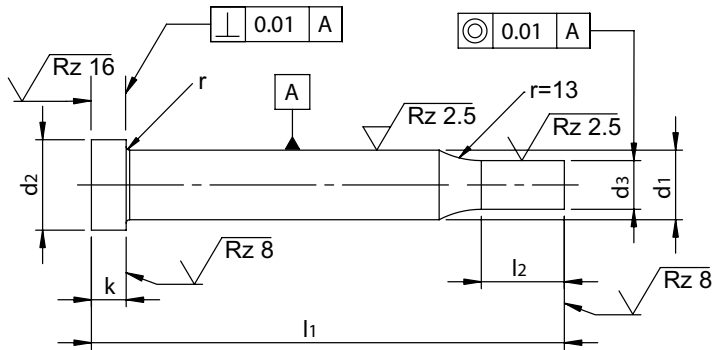
SE 716 KP / ISO /
10 x 100 / d3

Stempel mit verstärkter Kopfhöhe
auf Wunsch lieferbar (bei Bestellung
angeben).

Länge l2 frei wählbar!
Stempel mit Verdrehsicherung auf
Wunsch lieferbar (bei Bestellung
angeben).

Length l2 freely selectable!
Punches with rotation prevention
available, please specify when
ordering.

Punches with reinforced head
height available, please specify
when ordering.



d1 m5	d2 -0,15	d3 +0,01 Stufung/step 0,01	k +0,2 +0,1	r +0,1	l2 ±0,5	l1 +0,5 +0,2					
						63	71	80	90	100	120
3	5	1,6 - 2,9	3	0,2	7	●	●	●	●		
4	6	1,6 - 3,9	3	0,2	10	●	●	●	●	●	
5	8	2,5 - 4,9	5	0,3	10	●	●	●	●	●	●
6	9	3,0 - 5,9	5	0,3	10	●	●	●	●	●	●
8	11	4,0 - 7,9	5	0,3	13	●	●	●	●	●	●
10	13	5,0 - 9,9	5	0,3	17	●	●	●	●	●	●
13	16	9,0 - 12,9	5	0,5	17	●	●	●	●	●	●
16	19	12,0 - 15,9	5	0,5	17	●	●	●	●	●	●
20	23	16,0 - 19,9	5	0,5	17	●	●	●	●	●	●
25	28	20,0 - 24,9	5	0,5	17	●	●	●	●	●	●
32	35	27,0 - 31,9	5	0,5	17	●	●	●	●	●	●
38	41	33,0 - 37,9	5	0,5	17	●	●	●	●	●	●

Schneidstempel ISO 8020 Typ EKP mit fed. Auswerferstift

Punches ISO 8020 type EKP with spring ejector

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 737 EKP

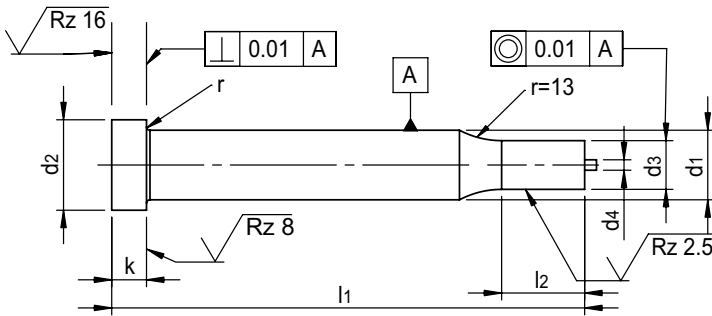
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 737 EKP /
10 x 100 / d3

Länge l2 frei wählbar!
Stempel mit Verdrehsicherung auf
Wunsch lieferbar (bei Bestellung
angeben).

Length l2 freely selectable!
Punches with rotation prevention
available, please specify when
ordering.



d1 m5	d2 -0,15	d3 +0,01 Stufung/step 0,01	d4	k +0,2 +0,1	r +0,1	l2 ±0,5	l1 +0,5 +0,2					
							63	71	80	90	100	120
5	8	2,5 - 4,9	1,0	5	0,3	10	●	●	●	●	●	
6	9	3,0 - 5,9	1,0	5	0,3	10	●	●	●	●	●	
8	11	4,0 - 7,9	1,5	5	0,3	13	●	●	●	●	●	●
10	13	5,0 - 9,9	1,5	5	0,3	17	●	●	●	●	●	●
13	16	9,0 - 12,9	1,5	5	0,5	17	●	●	●	●	●	●
16	19	12,0 - 15,9	2,3	5	0,5	17	●	●	●	●	●	●
20	23	16,0 - 19,9	2,3	5	0,5	17	●	●	●	●	●	●
25	28	20,0 - 24,9	2,3	5	0,5	17	●	●	●	●	●	●
32	35	24,0 - 31,9	3,0	5	0,5	17	●	●	●	●	●	●
38	41	28,0 - 37,9	3,0	5	0,5	17	●	●	●	●	●	●

Schneidst. ISO 8020, Typ. KF, KO, KR, KS, abges. Schaft

Punches ISO 8020, types KF, KO, KR, KS, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 731 . . ISO

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

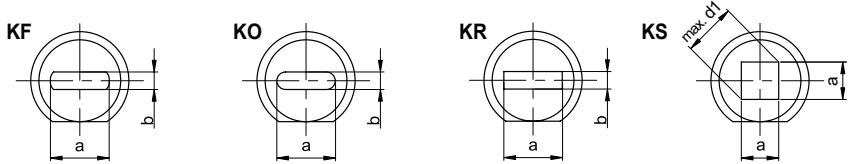
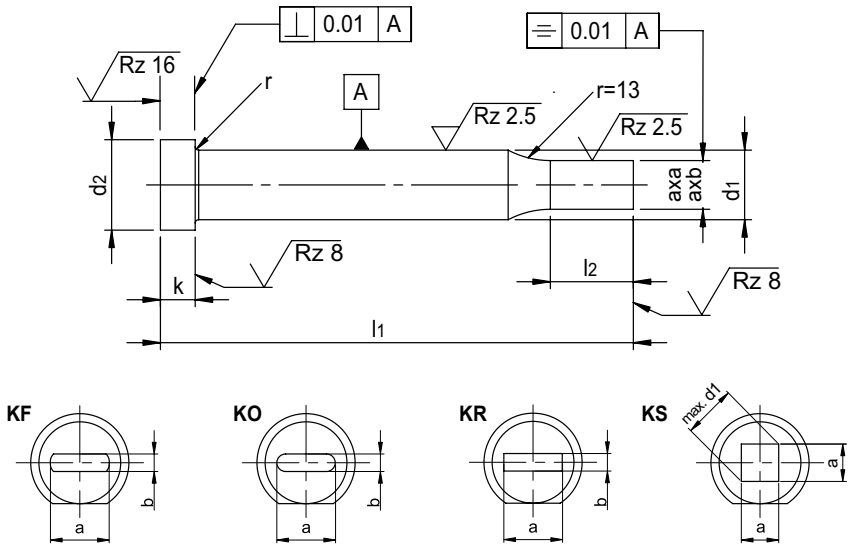
SE 731 KO / ISO /
10 x 100 / a x b

Stempel mit verstärkter Kopfhöhe
auf Wunsch lieferbar (bei Bestellung
angeben).

Länge l2 frei wählbar!
Stempel ohne Verdrehsicherung auf
Wunsch lieferbar (bei Bestellung
angeben).

Length l2 freely selectable!
Punches without rotation preventi-
on available, please specify when
ordering.

Punches with reinforced head
height available, please specify
when ordering.



d1 m5	a x b ±0,01 Stufung/step 0,01 ≥ ≤	d2 -0,15	k +0,2 +0,1	r +0,1	l2 ±0,5	l1 +0,5 +0,2					
						63	71	80	90	100	120
3	1,6 - 2,9	5	3	0,2	7	●	●	●	●		
4	1,6 - 3,9	6	3	0,2	10	●	●	●	●	●	
5	2,5 - 4,9	8	5	0,3	10	●	●	●	●	●	●
6	3,0 - 5,9	9	5	0,3	10	●	●	●	●	●	●
8	4,0 - 7,9	11	5	0,3	13	●	●	●	●	●	●
10	5,0 - 9,9	13	5	0,3	17	●	●	●	●	●	●
13	9,0 - 12,9	16	5	0,5	17	●	●	●	●	●	●
16	12,0 - 15,9	19	5	0,5	17	●	●	●	●	●	●
20	16,0 - 19,9	23	5	0,5	17	●	●	●	●	●	●
25	20,0 - 24,9	28	5	0,5	17	●	●	●	●	●	●
32	27,0 - 31,9	35	5	0,5	17	●	●	●	●	●	●
38	33,0 - 37,9	41	5	0,5	17	●	●	●	●	●	●

Schneidstempel ISO 8020 Typen EKF, EKO, EKR, EKS

Punches ISO 8020 types EKF, EKO, EKR, EKS

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 737 . . .

mit federndem Auswerferstift

with spring ejector

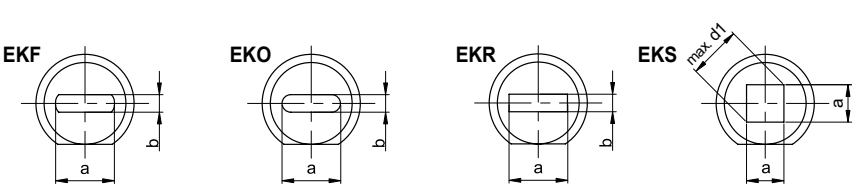
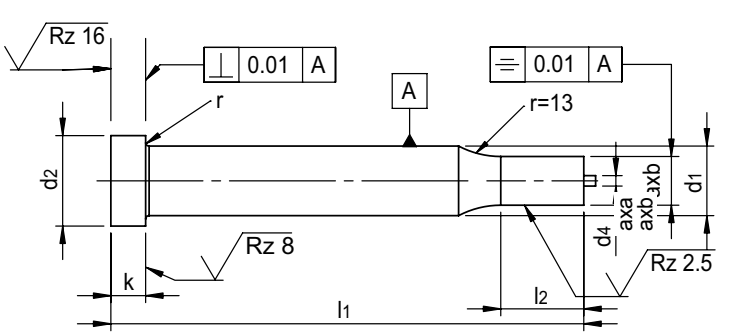
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 737 EKF /
10 x 100 / a x b

Länge l2 frei wählbar!
Stempel ohne Verdrehsicherung auf
Wunsch lieferbar (bei Bestellung
angeben).

Length l2 freely selectable!
Punches without rotation preventi-
on available, please specify when
ordering.



d1 m5	d2 -0,15	a x b ±0,01 Stufung/step 0,01 ≥ ≤	d4	k +0,2 +0,1	r +0,1	l2 ±0,5	l1 +0,5 +0,2					
							63	71	80	90	100	120
5	8	2,5 - 4,9	1,0	5	0,3	10	●	●	●	●	●	
6	9	3,0 - 5,9	1,0	5	0,3	10	●	●	●	●	●	
8	11	4,0 - 7,9	1,6	5	0,3	13	●	●	●	●	●	●
10	13	5,0 - 9,9	1,6	5	0,3	17	●	●	●	●	●	●
13	16	9,0 - 12,9	1,6	5	0,5	17	●	●	●	●	●	●
16	19	12,0 - 15,9	2,4	5	0,5	17	●	●	●	●	●	●
20	23	16,0 - 19,9	2,4	5	0,5	17	●	●	●	●	●	●
25	28	20,0 - 24,9	2,4	5	0,5	17	●	●	●	●	●	●
32	35	24,0 - 31,9	2,4	5	0,5	17	●	●	●	●	●	●
38	41	28,0 - 37,9	2,4	5	0,5	17	●	●	●	●	●	●

Stempelhalteplatten für Schneidstempel ISO 8020, DIN 3374

Retainer plates for punches ISO 8020, DIN 3374



SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 391

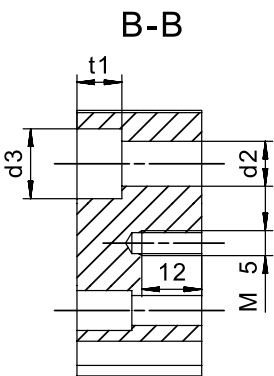
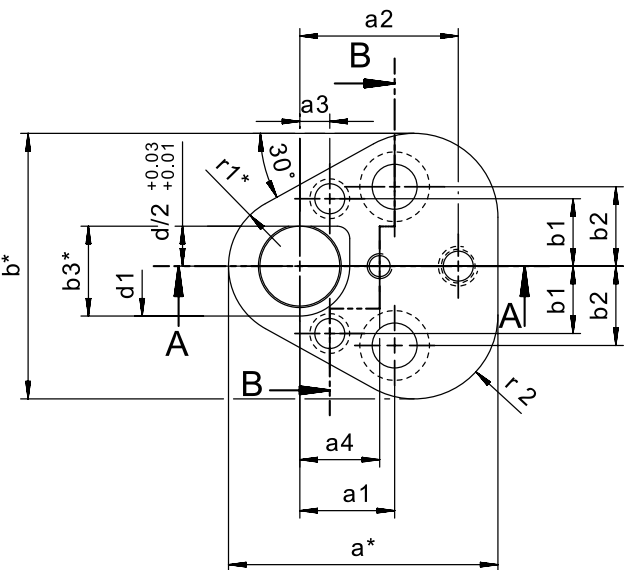
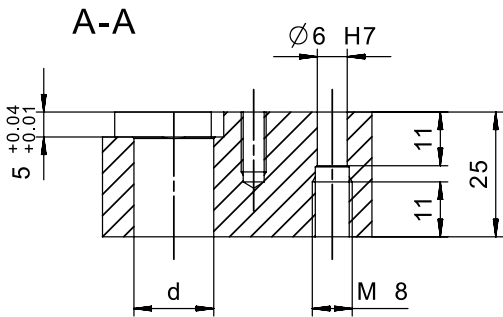
Schwere Ausführung
mit Verdrehsicherung

Heavy duty
with rotation prevention

SE 391 / 13

Lieferumfang:
Zylinderkopfschrauben und Zylinder-
stifte

Included:
Socket head cap screw and dowel
pins



d	Toleranzen d Tolerances d	d1	d2	d3	t1	a* max.	a1	a2 ±0,01	a3 ±0,01	a4	b* max.	b1 ±0,01	b2	b3*	r1*	r2
10	+0,011 +0,008	14	9	15	9	44,5	19	26,92	7,5	16	43,7	9	11,1	12	9,5	12
13	+0,014 +0,010	17	9	15	9	50,8	19	29,97	6,5	16	50	12	14,3	15	12,7	15,2
16	+0,014 +0,010	20	9	15	9	54	19	31,75	6	16	53,2	13,5	15,9	18	14,3	16,8
20	+0,016 +0,011	24	11	18	11	60,3	19	33,53	5	23	59,5	16,5	17,5	22	17,5	20
25	+0,016 +0,011	29	13,5	20	13	69,9	23,8	40,64	7	30	69,1	22	19,8	27	22,2	24,7
32	+0,019 +0,013	36	13,5	20	13	69,9	23,8	40,64	7	30	69,1	22	19,8	34	22,2	24,7

* Konturen können variieren. Größtmaße sind in der Tabelle angegeben.

* Contours may vary. Maximum dimensions are given in the table.

Druckplatten für Stempelhalteplatten SE 391, DIN 3374

Thrust plates for retainer plates SE 391, DIN 3374



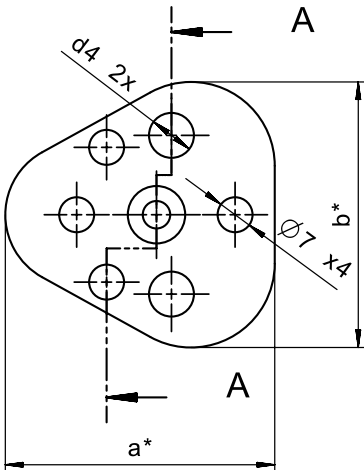
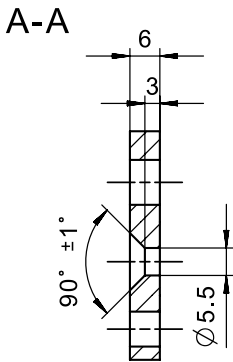
SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 392

Mat.: 1.2842
Härte: 50 +3 HRC

Mat.: 1.2842
Hardness: 50 +3 HRC

SE 392 / 13



d SE 391	d4	a* max.	b* max.
10	9	44,5	43,7
13	9	50,8	50
16	9	54	53,2
20	11	60,3	59,5
25	13,5	69,9	69,1
32	13,5	69,9	69,1

* Konturen können variieren. Größtmaße sind in der Tabelle angegeben.

* Contours may vary. Maximum dimensions are given in the table.

Stempelhalteplatten für Schneidstempel ISO 8020

Retainer plates for punches ISO 8020

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 393

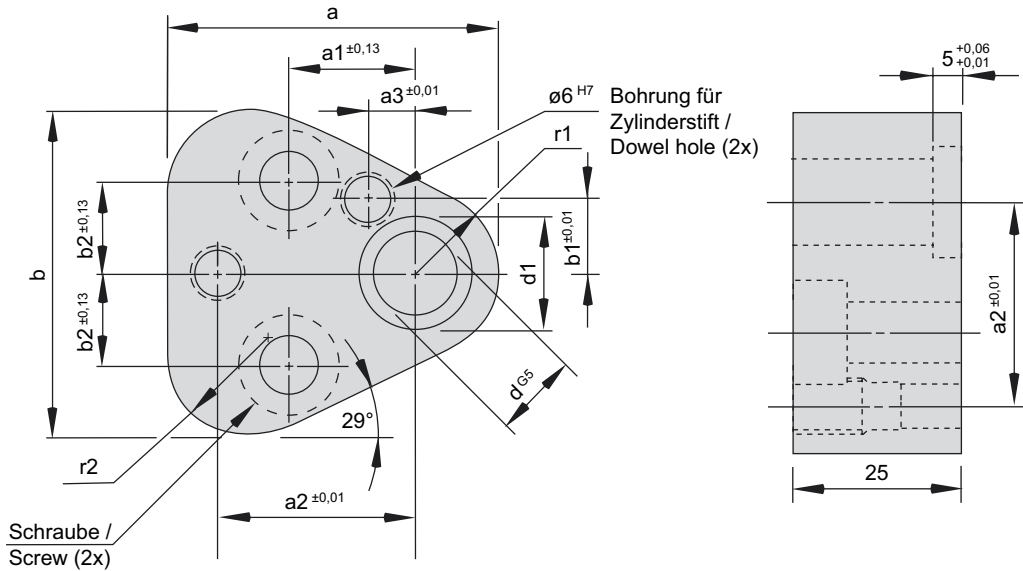
Mat.: C45

Mat.: C45

SE 393 / 13

Lieferumfang:
Zylinderkopfschrauben und Zylinder-
stifte

Included:
Socket head cap screw and dowel
pins



d	d1	a* max.	a1	a2	a3	b* max.	b1	b2	r1*	r2	Schrauben Screws
10	14	44,5	19	26,93	7,5	43,7	9	11,1	9,5	12	M8
13	17	50,8	19	29,97	6,5	50	12	14,3	12,7	15,2	M8
16	20	54	19	31,75	6	53,2	13,5	15,9	14,3	16,8	M8
20	24	60,3	19	33,53	5	59,5	16,5	17,5	17,5	20	M10
25	29	69,9	23,8	40,64	7	69,1	22	19,8	22,2	24,7	M10
32	36	69,9	23,8	40,64	7	69,1	22	19,8	22,2	24,7	M12

* Konturen können variieren. Größtmaße sind in der Tabelle angegeben.

* Contours may vary. Maximum dimensions are given in the table.



Stempelhalteplatten für Schneidstempel ISO 8020

Retainer plates for punches ISO 8020

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 394

mit Verdrehsicherung

with rotation prevention

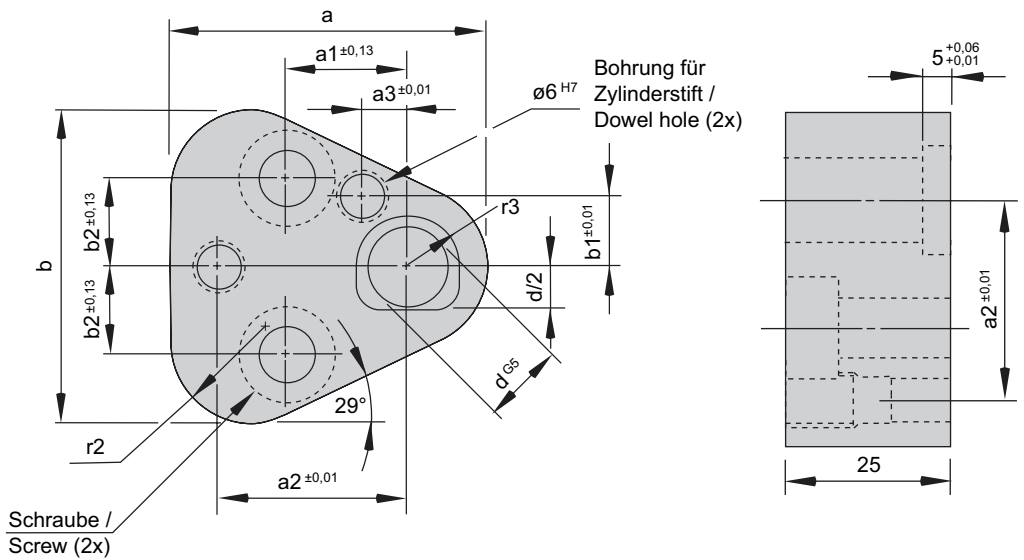
SE 394 / 13

Mat.: C45

Mat.: C45

Lieferumfang:
Zylinderkopfschrauben und
Zylinderstifte

Included:
Socket head cap screw and dowel
pins



d	a* max.	a1	a2	a3	b* max.	b1	b2	r1*	r2	r3	Schrauben Screws
10	44,5	19	26,93	7,5	43,7	9	11,1	9,5	12	7	M8
13	50,8	19	29,97	6,5	50	12	14,3	12,7	15,2	8,5	M8
16	54	19	31,75	6	53,2	13,5	15,9	14,3	16,8	10	M8
20	60,3	19	33,53	5	59,5	16,5	17,5	17,5	20	12	M10
25	69,9	23,8	40,64	7	69,1	22	19,8	22,2	24,7	14,5	M10
32	69,9	23,8	40,64	7	69,1	22	19,8	22,2	24,7	18	M12

* Konturen können variieren. Größtmaße sind in der Tabelle angegeben.

* Contours may vary. Maximum dimensions are given in the table.



Zubehör für Stempelhalteplatten SE 393, SE 394

Accessories for retainer plates SE 393, SE 394

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 395

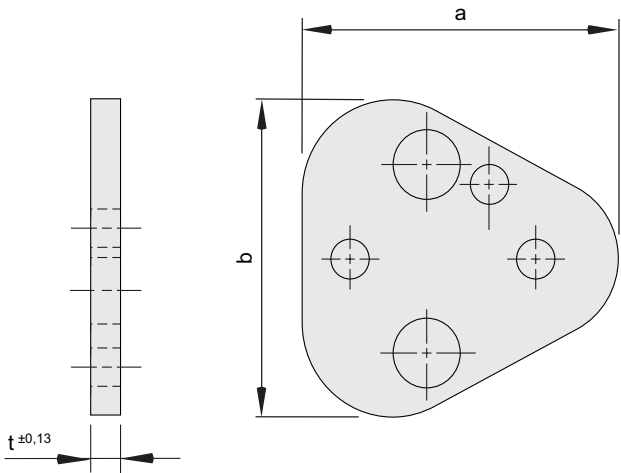
Ausgleichsplatten

Mat.: C45

Shim plates

Mat.: C45

SE 395 / 13



d SE 393, SE 394	t	a* max.	b* max.
10	1,8	44,5	43,7
13	1,8	50,8	50
16	1,8	54	53,2
20	1,8	60,3	59,5
25	1,8	69,9	69,1
32	1,8	69,9	69,1

* Konturen können variieren. Größtmaße sind in der Tabelle angegeben.

* Contours may vary. Maximum dimensions are given in the table.

SE 396

Druckplatten

Mat.: C45
Härte: 55 HRC

Thrust plates

Mat.: C45
Hardness: 55 HRC

SE 396 / 13

d SE 393, SE 394	t	a* max.	b* max.
10	4,8	44,5	43,7
13	4,8	50,8	50
16	4,8	54	53,2
20	4,8	60,3	59,5
25	4,8	69,9	69,1
32	4,8	69,9	69,1

* Konturen können variieren. Größtmaße sind in der Tabelle angegeben.

* Contours may vary. Maximum dimensions are given in the table.

Schneidstempel Posaunenmundstück

Punches trumpet head

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 750

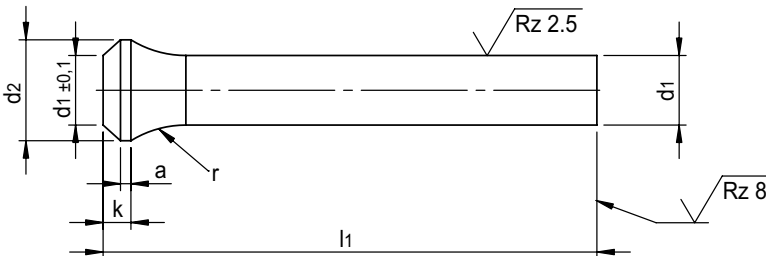
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 750 / 13,0 x 100

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Punches with rotation prevention available, please specify when ordering.



d1 h6	d2 -0,2	k +0,2	a	r -0,2	l1 +0,5				
					71	80	90	100	120
2,0	3,0	3	1,0	3,5	●	●	●		
2,5	3,5	3	1,0	3,5	●	●	●		
3,0	4,5	3	1,0	6,5	●	●	●		
3,5	5,0	3	1,0	8,0	●	●	●		
4,0	5,5	4	1,5	8,0	●	●	●	●	
4,5	6,0	4	1,5	8,0	●	●	●	●	
5,0	7,0	4	1,5	10,0	●	●	●	●	●
5,5	8,0	4	1,5	10,0	●	●	●	●	●
6,0	9,0	4	1,5	10,0	●	●	●	●	●
6,5	10,0	4	1,5	12,0	●	●	●	●	●
7,0	10,0	4	1,5	12,0	●	●	●	●	●
7,5	11,0	4	1,5	12,0	●	●	●	●	●
8,0	11,0	4	1,5	12,0	●	●	●	●	●
8,5	13,0	4	1,5	15,0	●	●	●	●	●
9,0	13,0	4	1,5	15,0	●	●	●	●	●
9,5	14,0	4	1,5	15,0	●	●	●	●	●
10,0	14,0	4	1,5	15,0	●	●	●	●	●
10,5	15,0	4	1,5	15,0	●	●	●	●	●
11,0	15,0	4	1,5	15,0	●	●	●	●	●
11,5	16,0	4	1,5	15,0	●	●	●	●	●
12,0	16,0	4	1,5	15,0	●	●	●	●	●
12,5	17,0	4	1,5	15,0	●	●	●	●	●
13,0	17,0	4	1,5	15,0	●	●	●	●	●
13,5	18,0	4	1,5	15,0	●	●	●	●	●
14,0	18,0	4	1,5	15,0	●	●	●	●	●
14,5	19,0	4	1,5	15,0	●	●	●	●	●
15,0	19,0	4	1,5	15,0	●	●	●	●	●
15,5	20,0	4	1,5	15,0	●	●	●	●	●
16,0	20,0	4	1,5	15,0	●	●	●	●	●
16,5	21,0	4	1,5	15,0	●	●	●	●	●
17,0	21,0	4	1,5	15,0	●	●	●	●	●
17,5	22,0	4	1,5	15,0	●	●	●	●	●
18,0	22,0	4	1,5	15,0	●	●	●	●	●
18,5	23,0	4	1,5	15,0	●	●	●	●	●
19,0	23,0	4	1,5	15,0	●	●	●	●	●
19,5	25,0	4	1,5	15,0	●	●	●	●	●
20,0	25,0	4	1,5	15,0	●	●	●	●	●
25,0	30,0	4	1,5	15,0	●	●	●	●	●
= bevorzugte Abmessungen / preferred dimensions									

Schneidstempel Posaunenhals mit fed. Auswerferstift

Punches trumpet head with spring ejector

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 753

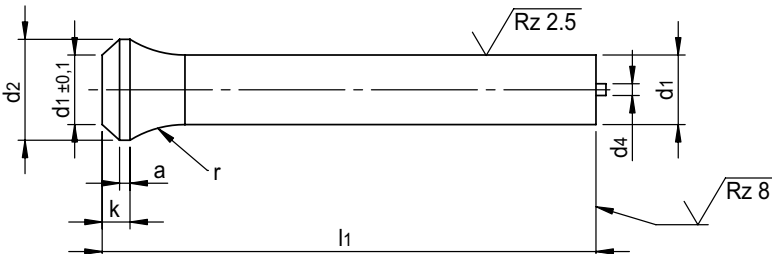
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 753 / 13,0 x 100

Stempel mit Verdrehssicherung auf Wunsch lieferbar (bei Bestellung angeben).

Punches with rotation prevention available, please specify when ordering.



d1 h6	d2 -0,2	k +0,2	a	r -0,2	d4	l1 +0,5				
						71	80	90	100	120
5,0	7	4	1,5	10	1,0	●	●	●	●	
6,0	9	4	1,5	10	1,0	●	●	●	●	
8,0	11	4	1,5	12	1,5	●	●	●	●	●
10,0	14	4	1,5	15	1,5	●	●	●	●	●
13,0	17	4	1,5	15	1,5	●	●	●	●	●
16,0	20	4	1,5	15	2,3	●	●	●	●	●
20,0	25	4	1,5	15	2,3	●	●	●	●	●
25,0	30	4	1,5	15	2,3	●	●	●	●	●

Zwischenabmessungen auf Anfrage! / Intermediate dimensions on request!

Schneidstempel Posaunenhals, abgesetzter Schaft

Punches trumpet head, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 751

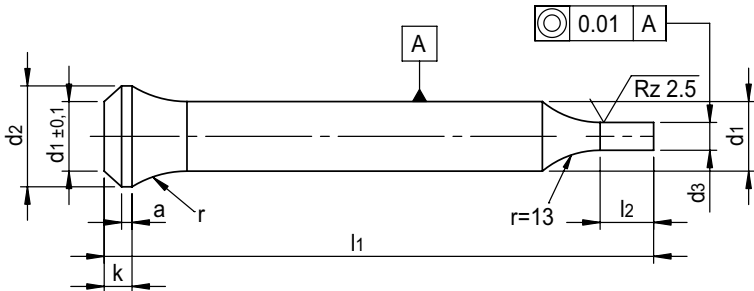
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 751 / 10,0 x 100 / d3

Länge l2 frei wählbar!
Stempel mit Verdrehssicherung auf Wunsch lieferbar (bei Bestellung angeben).

Length l2 freely selectable!
Punches with rotation prevention available, please specify when ordering.



d1 h6	d3 h6 Stufung/step 0,01	d2 -0,2	k +0,2	a	r -0,2	l2 +0,5	l1 +0,5				
							71	80	90	100	120
2,0	0,5 - 1,9	3,0	3	1,0	3,5	7	●	●	●		
2,5	0,5 - 2,4	3,5	3	1,0	3,5	7	●	●	●		
3,0	1,6 - 2,9	4,5	3	1,0	6,5	7	●	●	●		
3,5	1,6 - 3,4	5,0	3	1,0	8,0	10	●	●	●		
4,0	1,6 - 3,9	5,5	4	1,5	8,0	10	●	●	●	●	
4,5	2,0 - 4,4	6,0	4	1,5	8,0	10	●	●	●	●	
5,0	2,5 - 4,9	7,0	4	1,5	10,0	10	●	●	●	●	●
5,5	2,5 - 5,4	8,0	4	1,5	10,0	10	●	●	●	●	●
6,0	3,0 - 5,9	9,0	4	1,5	10,0	10	●	●	●	●	●
6,5	3,0 - 6,4	10,0	4	1,5	12,0	10	●	●	●	●	●
7,0	3,5 - 6,9	10,0	4	1,5	12,0	10	●	●	●	●	●
7,5	3,5 - 7,4	11,0	4	1,5	12,0	10	●	●	●	●	●
8,0	3,5 - 7,9	11,0	4	1,5	12,0	13	●	●	●	●	●
8,5	4,0 - 8,4	13,0	4	1,5	15,0	13	●	●	●	●	●
9,0	4,0 - 8,9	13,0	4	1,5	15,0	13	●	●	●	●	●
9,5	4,5 - 9,4	14,0	4	1,5	15,0	13	●	●	●	●	●
10,0	5,0 - 9,9	14,0	4	1,5	15,0	17	●	●	●	●	●
10,5	5,5 - 10,4	15,0	4	1,5	15,0	17	●	●	●	●	●
11,0	5,5 - 10,9	15,0	4	1,5	15,0	17	●	●	●	●	●
11,5	6,0 - 11,4	16,0	4	1,5	15,0	17	●	●	●	●	●
12,0	6,0 - 11,9	16,0	4	1,5	15,0	17	●	●	●	●	●
12,5	7,0 - 12,4	17,0	4	1,5	15,0	17	●	●	●	●	●
13,0	9,0 - 12,9	17,0	4	1,5	15,0	17	●	●	●	●	●
13,5	9,0 - 13,4	18,0	4	1,5	15,0	17	●	●	●	●	●
14,0	9,5 - 13,9	18,0	4	1,5	15,0	17	●	●	●	●	●
14,5	9,5 - 14,4	19,0	4	1,5	15,0	17	●	●	●	●	●
15,0	10,0 - 14,9	19,0	4	1,5	15,0	17	●	●	●	●	●
15,5	10,5 - 15,4	20,0	4	1,5	15,0	17	●	●	●	●	●
16,0	12,0 - 15,9	20,0	4	1,5	15,0	17	●	●	●	●	●
16,5	12,5 - 16,4	21,0	4	1,5	15,0	17	●	●	●	●	●
17,0	13,0 - 16,9	21,0	4	1,5	15,0	17	●	●	●	●	●
17,5	13,0 - 17,4	22,0	4	1,5	15,0	17	●	●	●	●	●
18,0	13,5 - 17,9	22,0	4	1,5	15,0	17	●	●	●	●	●
18,5	13,5 - 18,4	23,0	4	1,5	15,0	17	●	●	●	●	●
19,0	14,0 - 18,9	23,0	4	1,5	15,0	17	●	●	●	●	●
19,5	15,0 - 19,4	25,0	4	1,5	15,0	17	●	●	●	●	●
20,0	16,0 - 19,9	25,0	4	1,5	15,0	17	●	●	●	●	●
25,0	18,0 - 24,9	30,0	4	1,5	15,0	17	●	●	●	●	●

= bevorzugte Abmessungen / preferred dimensions

Schneidstempel Posaunenhals, abgesetzter Schaft

Punches trumpet head, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 754

mit federndem Auswerferstift

with spring ejector

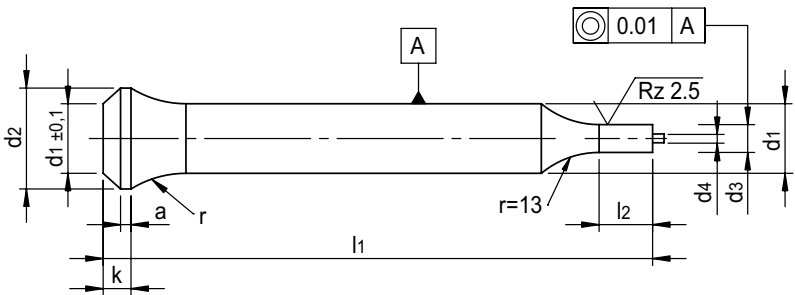
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 754 /
10,0 x 100 / d3

Länge l2 frei wählbar!
Stempel mit Verdrehsicherung auf
Wunsch lieferbar (bei Bestellung
angeben).

Length l2 freely selectable!
Punches with rotation prevention
available, please specify when
ordering.



d1 h6	d3 h6 Stufung/step 0,01 ≥ ≤	d2	k -0,2	a +0,2	r	l2 -0,2	d4 +0,5	l1 +0,5				
								71	80	90	100	120
5,0	2,5 - 4,9	7	4,0	1,5	10,0	10	1,0	●	●	●	●	
6,0	3,0 - 5,9	9	4,0	1,5	10,0	10	1,0	●	●	●	●	
8,0	4,0 - 7,9	11	4,0	1,5	12,0	13	1,5	●	●	●	●	●
10,0	5,0 - 9,9	14	4,0	1,5	15,0	17	1,5	●	●	●	●	●
13,0	9,0 - 12,9	17	4,0	1,5	15,0	17	1,5	●	●	●	●	●
16,0	12,0 - 15,9	20	4,0	1,5	15,0	17	2,3	●	●	●	●	●
20,0	16,0 - 19,9	25	4,0	1,5	15,0	17	2,3	●	●	●	●	●
25,0	18,0 - 24,9	30	4,0	1,5	15,0	17	2,3	●	●	●	●	●

Zwischenabmessungen auf Anfrage! / Intermediate dimensions on request!

Schneidstempel Posaunenhals, abgesetzter Schaft

Punches trumpet head, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 752 . .

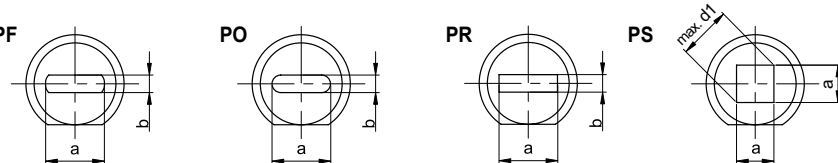
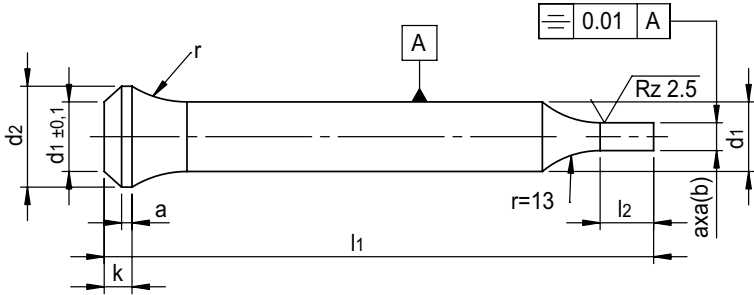
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 752 PF /
10,0 x 100 / a x b

Länge l2 frei wählbar!
Stempel ohne Verdrehsicherung auf
Wunsch lieferbar (bei Bestellung
angeben).

Length l2 freely selectable!
Punches without rotation preventi-
on available, please specify when
ordering.



d1 h6	a x b ±0,01 Stufung/step 0,01 ≥ ≤	d2 -0,2	k +0,2	a	r -0,2	l2 +0,5	l1 +0,5				
							71	80	90	100	120
2,0	0,5 - 1,9	3,0	3	1,0	3,5	7	●	●	●		
2,5	0,5 - 2,4	3,5	3	1,0	3,5	7	●	●	●		
3,0	1,6 - 2,9	4,5	3	1,0	6,5	7	●	●	●		
3,5	1,6 - 3,4	5,0	3	1,0	8,0	10	●	●	●		
4,0	1,6 - 3,9	5,5	4	1,5	8,0	10	●	●	●	●	
4,5	2,0 - 4,4	6,0	4	1,5	8,0	10	●	●	●	●	
5,0	2,5 - 4,9	7,0	4	1,5	10,0	10	●	●	●	●	●
5,5	2,5 - 5,4	8,0	4	1,5	10,0	10	●	●	●	●	●
6,0	3,0 - 5,9	9,0	4	1,5	10,0	10	●	●	●	●	●
6,5	3,0 - 6,4	10,0	4	1,5	12,0	10	●	●	●	●	●
7,0	3,5 - 6,9	10,0	4	1,5	12,0	10	●	●	●	●	●
7,5	3,5 - 7,4	11,0	4	1,5	12,0	10	●	●	●	●	●
8,0	3,5 - 7,9	11,0	4	1,5	12,0	13	●	●	●	●	●
8,5	4,0 - 8,4	13,0	4	1,5	15,0	13	●	●	●	●	●
9,0	4,0 - 8,9	13,0	4	1,5	15,0	13	●	●	●	●	●
9,5	4,5 - 9,4	14,0	4	1,5	15,0	13	●	●	●	●	●
10,0	5,0 - 9,9	14,0	4	1,5	15,0	17	●	●	●	●	●
10,5	5,5 - 10,4	15,0	4	1,5	15,0	17	●	●	●	●	●
11,0	5,5 - 10,9	15,0	4	1,5	15,0	17	●	●	●	●	●
11,5	6,0 - 11,4	16,0	4	1,5	15,0	17	●	●	●	●	●

d1 h6	a x b ±0,01 Stufung/step 0,01 ≥ ≤	d2 -0,2	k +0,2	a	r -0,2	l2 +0,5	l1 +0,5				
							71	80	90	100	120
12,0	6,0 - 11,9	16,0	4	1,5	15,0	17	●	●	●	●	●
12,5	7,0 - 12,4	17,0	4	1,5	15,0	17	●	●	●	●	●
13,0	9,0 - 12,9	17,0	4	1,5	15,0	17	●	●	●	●	●
13,5	9,0 - 13,4	18,0	4	1,5	15,0	17	●	●	●	●	●
14,0	9,5 - 13,9	18,0	4	1,5	15,0	17	●	●	●	●	●
14,5	9,5 - 14,4	19,0	4	1,5	15,0	17	●	●	●	●	●
15,0	10,0 - 14,9	19,0	4	1,5	15,0	17	●	●	●	●	●
15,5	10,5 - 15,4	20,0	4	1,5	15,0	17	●	●	●	●	●
16,0	12,0 - 15,9	20,0	4	1,5	15,0	17	●	●	●	●	●
16,5	12,5 - 16,4	21,0	4	1,5	15,0	17	●	●	●	●	●
17,0	13,0 - 16,9	21,0	4	1,5	15,0	17	●	●	●	●	●
17,5	13,0 - 17,4	22,0	4	1,5	15,0	17	●	●	●	●	●
18,0	13,5 - 17,9	22,0	4	1,5	15,0	17	●	●	●	●	●
18,5	13,5 - 18,4	23,0	4	1,5	15,0	17	●	●	●	●	●
19,0	14,0 - 18,9	23,0	4	1,5	15,0	17	●	●	●	●	●
19,5	15,0 - 19,4	25,0	4	1,5	15,0	17	●	●	●	●	●
20,0	16,0 - 19,9	25,0	4	1,5	15,0	17	●	●	●	●	●
25,0	18,0 - 24,9	30,0	4	1,5	15,0	17	●	●	●	●	●
= bevorzugte Abmessungen / preferred dimensions											

Schneidstempel Posaunenhals abgesetzter Schaft

Punches trumpet head shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 755 . . .

mit federndem Auswerferstift

with spring ejector

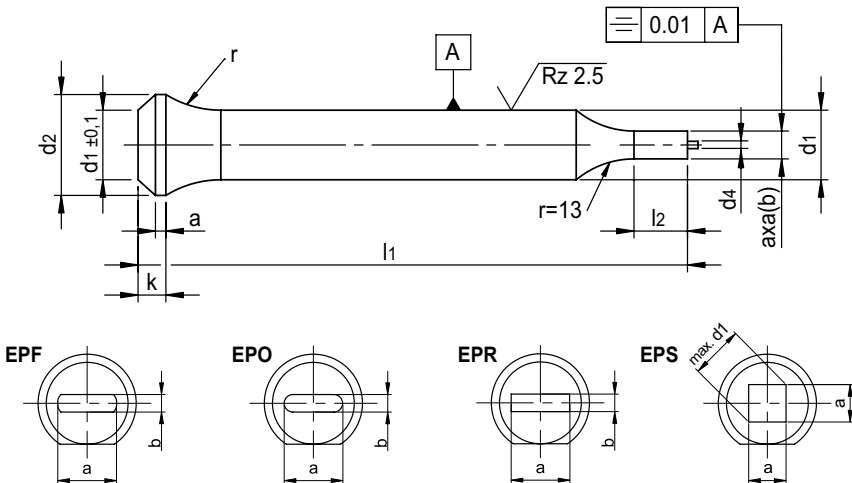
SE 755 EPF /
10,0 x 100 / a x b

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

Länge l2 frei wählbar!
Stempel ohne Verdrehsicherung auf
Wunsch lieferbar (bei Bestellung
angeben).

Length l2 freely selectable!
Punches without rotation preventi-
on available, please specify when
ordering.



d1 h6	a x b ±0,01 Stufung/step 0,01 ≥ ≤	d2	k -0,2	a +0,2	r	l2 -0,2	d4 +0,5	l1 +0,5				
								71	80	90	100	120
5,0	2,5 - 4,9	7	4,0	1,5	10	10	1,0	●	●	●	●	
6,0	3,0 - 5,9	9	4,0	1,5	10	10	1,0	●	●	●	●	
8,0	4,0 - 7,9	11	4,0	1,5	12	13	1,5	●	●	●	●	●
10,0	5,0 - 9,9	14	4,0	1,5	15	17	1,5	●	●	●	●	●
13,0	9,0 - 12,9	17	4,0	1,5	15	17	1,5	●	●	●	●	●
16,0	12,0-15,9	20	4,0	1,5	15	17	2,3	●	●	●	●	●
20,0	16,0-19,9	25	4,0	1,5	15	17	2,3	●	●	●	●	●
25,0	18,0-24,9	30	4,0	1,5	15	17	2,3	●	●	●	●	●

Zwischenabmessungen auf Anfrage! / Intermediate dimensions on request!

Kopfsenker für Posaunenhals-Stempel

Counterbore-tools for trumpet-head punches

SCHNEIDELEMENTE / CUTTING ELEMENTS

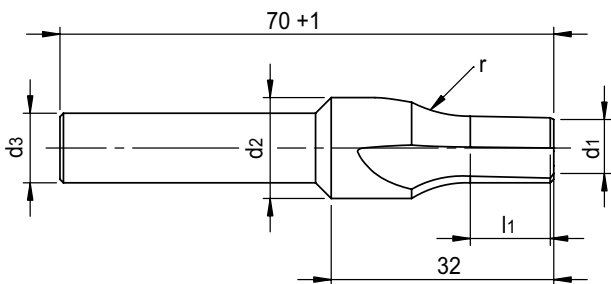


SE 020

Mat.: HSS
Härte Schaft: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC

SE 020 / 6,0



d1 f7	d2 h8	d3 h11	r	l1
5,0	7,4	d2	10	10
5,5	8,5	d2	10	10
6,0	9,5	d2	10	10
6,5 / 7,0	10,5	10	12	12
7,5 / 8,0	11,5	10	12	12
8,5 / 9,0	13,5	10	15	12
9,5 / 10,0	14,5	10	15	12
10,5 / 11,0	15,5	10	15	15
11,5 / 12,0	16,5	10	15	15
12,5 / 13,0	17,5	10	15	15
13,5 / 14,0	18,5	10	15	15
14,5 / 15,0	19,5	10	15	15
15,5 / 16,0	20,5	10	15	15
16,5 / 17,0	21,5	16	15	15
17,5 / 18,0	22,5	16	15	15
18,5 / 19,0	23,5	16	15	15
19,5 / 20,0	25,5	16	15	15
25,0	30,5	16	15	15

Zwischenabmessungen auf Anfrage! / Intermediate dimensions on request!

Fangstifte

Pilot punches

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 709

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

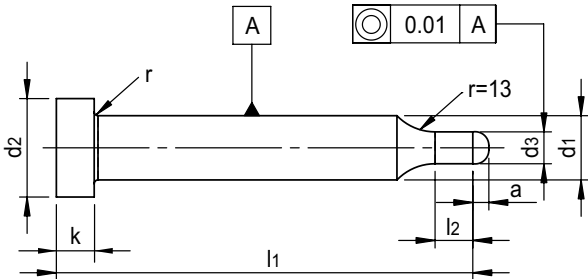
SE 709 /
6 x 100 / d3

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Gesamtlänge = l1 + a
Länge l2 frei wählbar!
Fehlende Maße siehe SE 712 (Seite SE.4)

Total length = l1 + a
Length l2 freely selectable!
for missing dimensions please see SE 712 (Page SE.4)

Punches with rotation prevention available, please specify when ordering.



d1 m5	d3 +0,01 Stufung/step 0,01	l2	a					
				63	71	80	90	100
5	0,8 - 2,0	10	3,0	●	●	●	●	●
6	2,1 - 4,5	10	4,5	●	●	●	●	●
8	4,6 - 7,5	13	6,5	●	●	●	●	●
10	7,6 - 10,0	17	8,0	●	●	●	●	●
13	10,1 - 13,0	17	9,5	●	●	●	●	●
16	13,1 - 16,0	17	11,5	●	●	●	●	●
20	16,1 - 20,0	17	13,5	●	●	●	●	●
25	20,1 - 25,0	17	13,5	●	●	●	●	●

Schneidstempel 30° Kopf

Punches 30° head

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 730

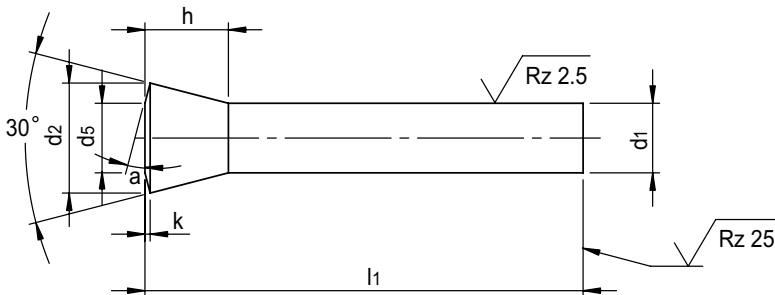
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 730 / 8 x 100

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Punches with rotation prevention available, please specify when ordering.



d1 h6	d2 -0,3	d3	h	k	a					
						71	80	90	100	120
4	6,6	3,8	6	1,0	35,0	●	●	●	●	
5	8,2	5,0	7	1,0	32,0	●	●	●	●	●
6	9,7	6,0	8	1,0	28,0	●	●	●	●	●
7	11,8	7,0	10	1,0	22,6	●	●	●	●	●
8	12,8	8,0	10	1,0	22,5	●	●	●	●	●
9	14,4	9,0	11	1,0	20,0	●	●	●	●	●
10	15,9	10,0	12	1,0	19,0	●	●	●	●	●
11	17,4	11,0	13	1,5	25,0	●	●	●	●	●
12	18,7	12,0	14	1,5	24,0	●	●	●	●	●
13	20,2	13,0	15	1,5	26,0	●	●	●	●	●
14	21,8	14,0	16	1,5	21,0	●	●	●	●	●
15	23,3	15,0	17	1,5	20,0	●	●	●	●	●
16	24,6	16,0	18	2,0	25,0	●	●	●	●	●

Schneidstempel 30° Kopf

Punches 30° head

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 734

mit federndem Auswerferstift

with spring ejector

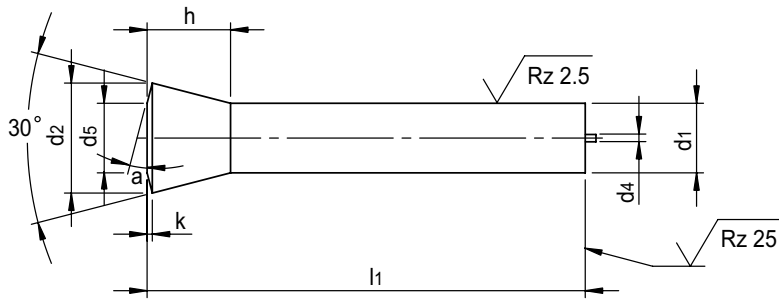
SE 734 / 8 x 100

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Punches with rotation prevention available, please specify when ordering.



d1 h6	d2 -0,3	d4	d5	h	k	a	l1 +1				
							71	80	90	100	120
5	8,2	1	5,0	7	1,0	32,0	●	●	●	●	●
6	9,7	1	6,0	8	1,0	28,0	●	●	●	●	●
7	11,8	1	7,0	10	1,0	22,6	●	●	●	●	●
8	12,8	1,5	8,0	10	1,0	22,5	●	●	●	●	●
9	14,4	1,5	9,0	11	1,0	20,0	●	●	●	●	●
10	15,9	1,5	10,0	12	1,0	19,0	●	●	●	●	●
11	17,4	1,5	11,0	13	1,5	25,0	●	●	●	●	●
12	18,7	1,5	12,0	14	1,5	24,0	●	●	●	●	●
13	20,2	1,5	13,0	15	1,5	26,0	●	●	●	●	●
14	21,8	1,5	14,0	16	1,5	21,0	●	●	●	●	●
15	23,3	2,3	15,0	17	1,5	20,0	●	●	●	●	●
16	24,6	2,3	16,0	18	2,0	25,0	●	●	●	●	●



Schneidstempel 30° Kopf, abgesetzter Schaft

Punches 30° head, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 732

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

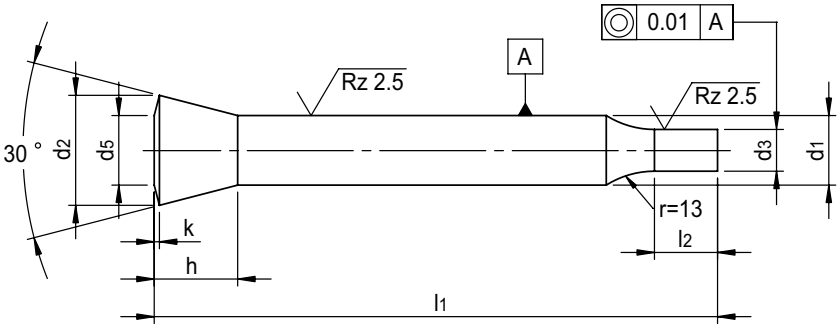
SE 732 / 6 x 100 / d3

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Länge l2 frei wählbar!
Fehlende Maße siehe SE 730 (Seite SE.23)

Length l2 freely selectable!
for missing dimensions please see SE 730 (page SE.23)

Punches with rotation prevention available, please specify when ordering.



d1 h6	d3 h6 Stufung/step 0,01	l2	d5	h	k	l1 +1				
						71	80	90	100	120
4	1,6 - 3,9	10	3,8	6	1,0	●	●	●	●	
5	2,5 - 4,9	10	5,0	7	1,0	●	●	●	●	●
6	3,0 - 5,9	10	6,0	8	1,0	●	●	●	●	●
7	3,0 - 6,9	10	7,0	10	1,0	●	●	●	●	●
8	4,0 - 7,9	13	8,0	10	1,0	●	●	●	●	●
9	4,5 - 8,9	13	9,0	11	1,0	●	●	●	●	●
10	5,0 - 9,9	17	10,0	12	1,0	●	●	●	●	●
11	5,0 - 10,9	17	11,0	13	1,5	●	●	●	●	●
12	6,0 - 11,9	17	12,0	14	1,5	●	●	●	●	●
13	9,0 - 12,9	17	13,0	15	1,5	●	●	●	●	●
14	9,5 - 13,9	17	14,0	16	1,5	●	●	●	●	●
15	10,0 - 14,9	17	15,0	17	1,5	●	●	●	●	●
16	12,0 - 15,9	17	16,0	18	2,0	●	●	●	●	●



Schneidstempel 30° Kopf, abgesetzter Schaft

Punches 30° head, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 735

mit federndem Auswerferstift

with spring ejector

SE 735 /
6 x 100 / d3

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

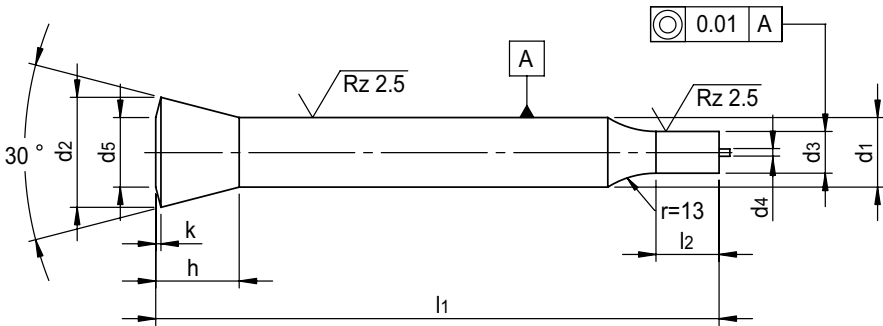
Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

Stempel mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Länge l2 frei wählbar!
Fehlende Maße siehe SE 730 (Seite SE.23)

Length l2 freely selectable!
for missing dimensions please see SE 730 (page SE.23)

Punches with rotation prevention available, please specify when ordering.



d1 h6	d3 h6 Stufung/step 0,01	d4	l2	d5	h	k	l1 +1				
							71	80	90	100	120
5	2,5 - 4,9	1	10	5,0	7	1,0	●	●	●	●	●
6	3,0 - 5,9	1	10	6,0	8	1,0	●	●	●	●	●
7	3,0 - 6,9	1	10	7,0	10	1,0	●	●	●	●	●
8	4,0 - 7,9	1,5	13	8,0	10	1,0	●	●	●	●	●
9	4,5 - 8,9	1,5	13	9,0	11	1,0	●	●	●	●	●
10	5,0 - 9,9	1,5	17	10,0	12	1,0	●	●	●	●	●
11	5,0 -10,9	1,5	17	11,0	13	1,5	●	●	●	●	●
12	6,0 -11,9	1,5	17	12,0	14	1,5	●	●	●	●	●
13	9,0 -12,9	1,5	17	13,0	15	1,5	●	●	●	●	●
14	9,5 -13,9	1,5	17	14,0	16	1,5	●	●	●	●	●
15	10,0-14,9	2,3	17	15,0	17	1,5	●	●	●	●	●
16	12,0-15,9	2,3	17	16,0	18	2,0	●	●	●	●	●

Schneidstempel 30° Kopf, abgesetzter Schaft

Punches 30° head, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 733 . . .

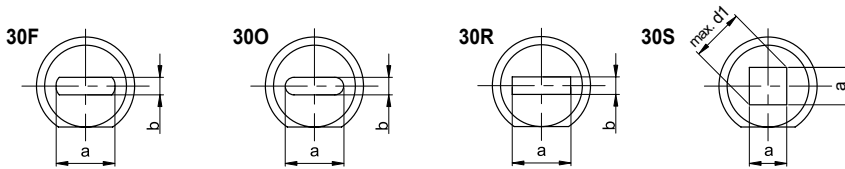
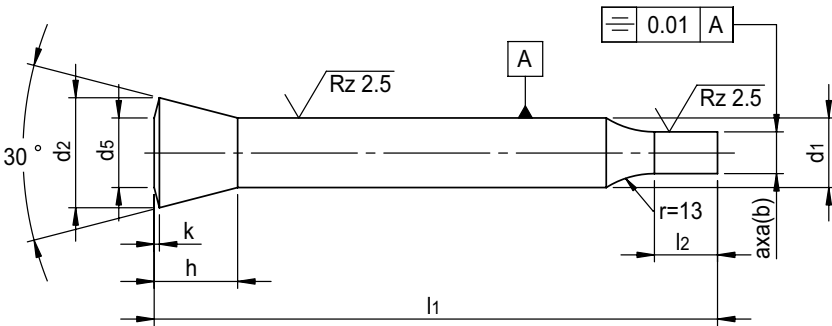
Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

SE 733 30F /
6 x 100 / a x b

Länge l2 frei wählbar!
Stempel ohne Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).
Fehlende Maße siehe SE 730 (Seite SE.23)

Length l2 freely selectable!
Punches without rotation prevention available, please specify when ordering.
for missing dimensions please see SE 730 (page SE.23)



d1 h6	a x b ±0,01 Stufung/step 0,01 ≥ ≤	l2 +0,5	d5	h	k	l1 +1				
						71	80	90	100	120
4	1,6 - 3,9	10	3,8	6	1,0	●	●	●	●	
5	2,5 - 4,9	10	5,0	7	1,0	●	●	●	●	●
6	3,0 - 5,9	10	6,0	8	1,0	●	●	●	●	●
7	3,0 - 6,9	10	7,0	10	1,0	●	●	●	●	●
8	4,0 - 7,9	13	8,0	10	1,0	●	●	●	●	●
9	4,5 - 8,9	13	9,0	11	1,0	●	●	●	●	●
10	5,0 - 9,9	17	10,0	12	1,0	●	●	●	●	●
11	5,0 -10,9	17	11,0	13	1,5	●	●	●	●	●
12	6,0 -11,9	17	12,0	14	1,5	●	●	●	●	●
13	9,0 -12,9	17	13,0	15	1,5	●	●	●	●	●
14	9,5 -13,9	17	14,0	16	1,5	●	●	●	●	●
15	10,0-14,9	17	15,0	17	1,5	●	●	●	●	●
16	12,0-15,9	17	16,0	18	2,0	●	●	●	●	●

Schneidstempel 30° Kopf, abgesetzter Schaft

Punches 30° head, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 736 . . .

mit federndem Auswerferstift

with spring ejector

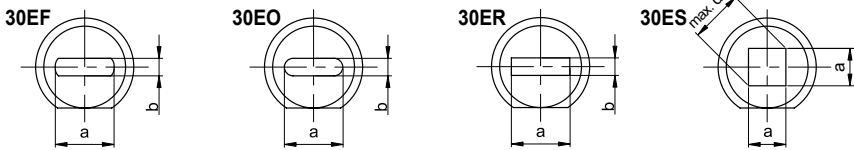
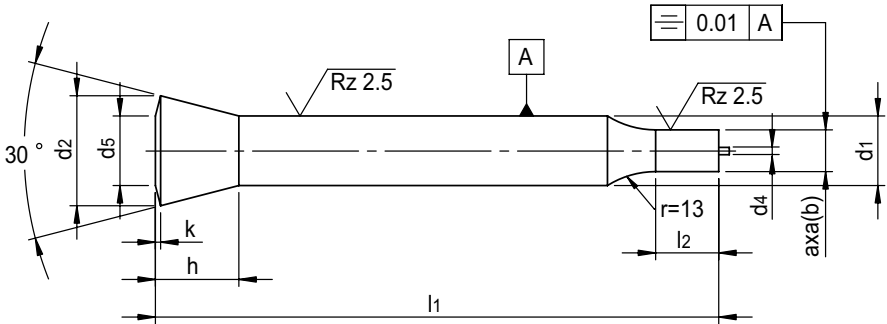
SE 736 30EF / 6 x 100 / a x b

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 50 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 50 ±5 HRC

Länge l2 frei wählbar!
Stempel ohne Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).
Fehlende Maße siehe SE 730 (Seite SE.23)

Length l2 freely selectable!
Punches without rotation prevention available, please specify when ordering.
for missing dimensions please see SE 730 (page SE.23)



d1 h6	a x b ±0,01 Stufung/step 0,01 ≥ ≤	d4	l2 +0,5	d5	h	k	l1 +1				
							71	80	90	100	120
5	2,5 - 4,9	1	10	5,0	7	1,0	●	●	●	●	●
6	3,0 - 5,9	1	10	6,0	8	1,0	●	●	●	●	●
7	3,0 - 6,9	1	10	7,0	10	1,0	●	●	●	●	●
8	4,0 - 7,9	1,5	13	8,0	10	1,0	●	●	●	●	●
9	4,5 - 8,9	1,5	13	9,0	11	1,0	●	●	●	●	●
10	5,0 - 9,9	1,5	17	10,0	12	1,0	●	●	●	●	●
11	5,0 -10,9	1,5	17	11,0	13	1,5	●	●	●	●	●
12	6,0 -11,9	1,5	17	12,0	14	1,5	●	●	●	●	●
13	9,0 -12,9	1,5	17	13,0	15	1,5	●	●	●	●	●
14	9,5 -13,9	1,5	17	14,0	16	1,5	●	●	●	●	●
15	10,0-14,9	2,3	17	15,0	17	1,5	●	●	●	●	●
16	12,0-15,9	2,3	17	16,0	18	2,0	●	●	●	●	●

Schneidstempel mit Langlochprofil über die Gesamtlänge

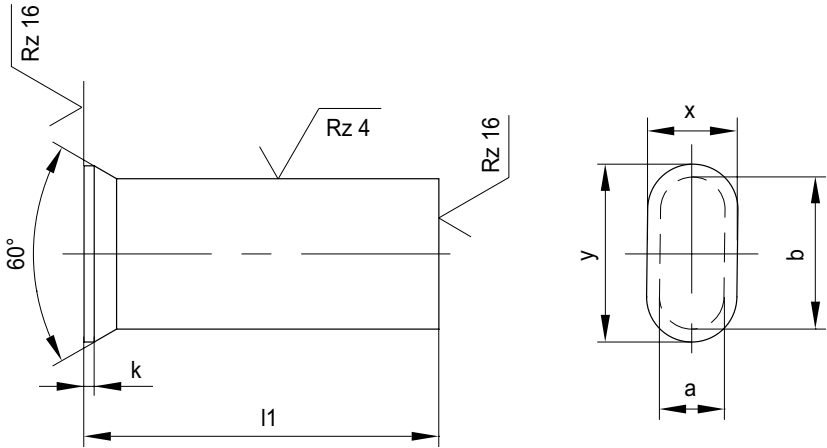
Punches with oblong shape over total length

SCHNEIDELEMENTE / CUTTING ELEMENTS



mit Senkkopf

with countersunk head



SE 744

Qualitätsausführung
Kopf und Schaft feinstgeschliffen
Kopf gestaut

Grade A - finish
Head and shank finish-ground
Jolted head

SE 744 / a x b x l1 x c x d x k

Mat.: HWS
Härte Schaft: 62 ±2 HRC
Kopf: 45 ±5 HRC

Mat.: HWS (e.g. A2)
Hardness shank: 62 ±2 HRC
Head: 45 ±5 HRC

ohne Toleranzangabe
a/b: ±0,02
l: +0,5 / +1,0

untoleranced
a/b: ±0,02
l: +0,5 / +1,0

Kopfmaße können nach Ihren
Angaben gefertigt werden!

Head-dimensions can be produced
as per customers request!



SE 745

Qualitätsausführung
Kopf und Schaft feinstgeschliffen
Kopf gestaut

Grade A - finish
Head and shank finish-ground
Jolted head

SE 745 / a x b x l1 x c x d x k

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 45 ±5 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 45 ±5 HRC

ohne Toleranzangabe
a/b: ±0,02
l: +0,5 / +1,0

untoleranced
a/b: ±0,02
l: +0,5 / +1,0

Kopfmaße können nach Ihren
Angaben gefertigt werden!

Head-dimensions can be produced
as per customers request!



Schneidstempel mit Rechteckprofil über die Gesamtlänge

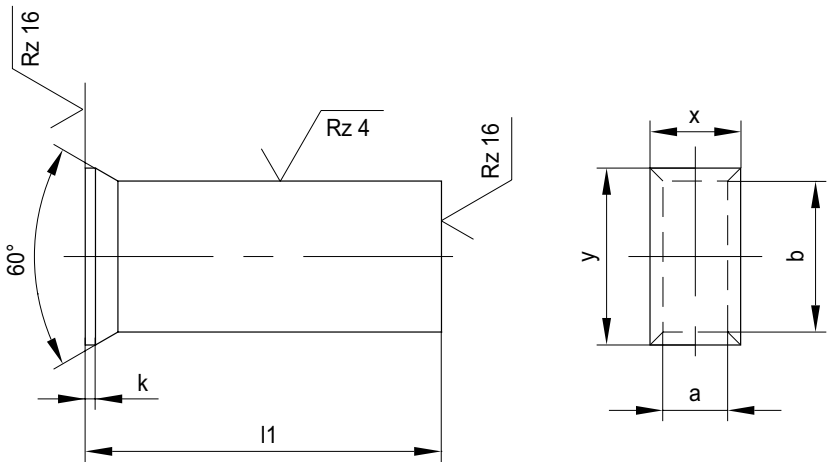
Punches with rectangular shape over total length

SCHNEIDELEMENTE / CUTTING ELEMENTS



mit Senkkopf

with countersunk head



SE 748

Qualitätsausführung
Kopf und Schaft feinstgeschliffen
Kopf gestaucht

Mat.: HWS
Härte Schaft: 62 ±2 HRC
Kopf: 45 ±5 HRC

ohne Toleranzangabe
a/b: ±0,02
l: +0,5 / +1,0

Kopfmaße können nach Ihren
Angaben gefertigt werden!

Grade A - finish
Head and shank finish-ground
Jolted head

HWS (e.g. A2)
Hardness shank: 62 ±2 HRC
Head: 45 ±5 HRC

untoleranced
a/b: ±0,02
l: +0,5 / +1,0

Head-dimensions can be produced
as per customers request!

SE 748 / a x b x l1 x
c x d x k



SE 749

Qualitätsausführung
Kopf und Schaft feinstgeschliffen
Kopf gestaucht

Mat.: HSS
Härte Schaft: 64 ±2 HRC
Kopf: 45 ±5 HRC

ohne Toleranzangabe
a/b: ±0,02
l: +0,5 / +1,0

Kopfmaße können nach Ihren
Angaben gefertigt werden!

Grade A - finish
Head and shank finish-ground
Jolted head

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC
Head: 45 ±5 HRC

untoleranced
a/b: ±0,02
l: +0,5 / +1,0

Head-dimensions can be produced
as per customers request!

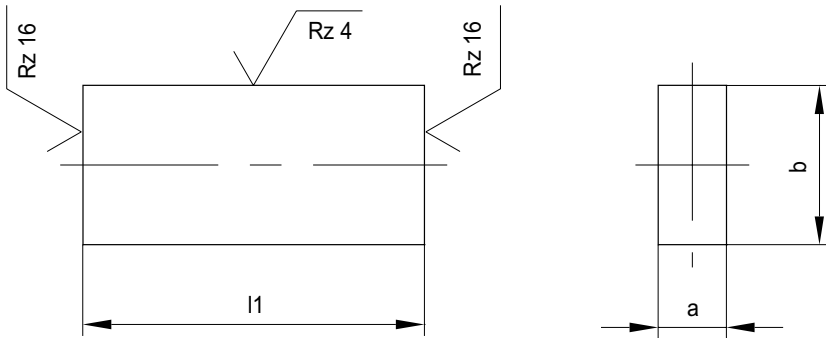
SE 749 / a x b x l1 x
c x d x k



Schneidstempel mit Rechteckprofil über die Gesamtlänge

Punches with rectangular shape over total length

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 738

Mat.: HWS
Härte Schaft: 62 ±2 HRC

ohne Toleranzangabe
a/b: ±0,02
l: +0,5 / +1,0

Mat.: HWS (e.g. A2)
Hardness shank: 62 ±2 HRC

untoleranced
a/b: ±0,02
l: +0,5 / +1,0

SE 738 / a x b x l1



SE 739

Mat.: HSS
Härte Schaft: 64 ±2 HRC

ohne Toleranzangabe
a/b: ±0,02
l: +0,5 / +1,0

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC

untoleranced
a/b: ±0,02
l: +0,5 / +1,0

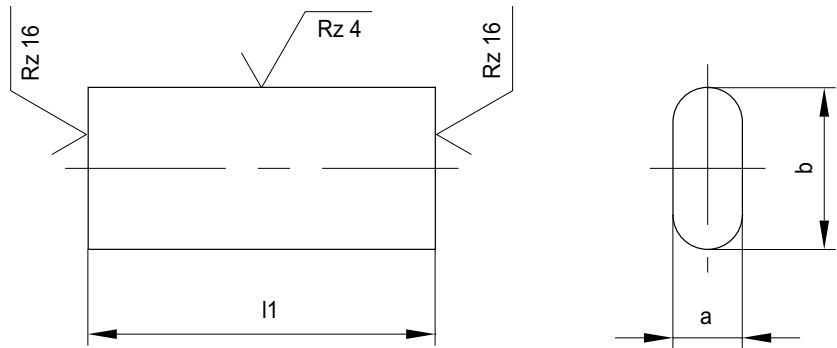
SE 739 / a x b x l1



Schneidstempel mit Langlochprofil über die Gesamtlänge

Punches with oblong shape over total length

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 740

Mat.: HWS
Härte Schaft: 62 ±2 HRC

Mat.: HWS (e.g. A2)
Hardness shank: 62 ±2 HRC

ohne Toleranzangabe
a/b: ±0,02
l: +0,5 / +1,0

untoleranced
a/b: ±0,02
l: +0,5 / +1,0

SE 740 / a x b x l1



SE 741

Mat.: HSS
Härte Schaft: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness shank: 64 ±2 HRC

ohne Toleranzangabe
a/b: ±0,02
l: +0,5 / +1,0

untoleranced
a/b: ±0,02
l: +0,5 / +1,0

SE 741 / a x b x l1



Schneidbuchsen DIN 9845 ohne Bund, Form A

Die buttons DIN 9845 without collar, Form A

SCHNEIDELEMENTE / CUTTING ELEMENTS

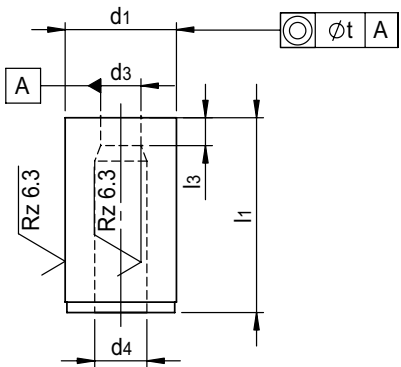


SE 791

Mat.: HSS
Härte: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

SE 791 / 3,0 x 28



d3 H8	Stufung Graduation	d1 n6	d4	kurze Ausführung short version		lange Ausführung long version		t
				l1 +0,5	l3	l1 +0,5	l3	
1,0	0,1	5	d3 + 0,3	20	2	—	—	0,01
1,1 - 2,0	0,1	6	d3 + 0,3	20	3	28	3	0,01
2,1 - 3,0	0,1	7	d3 + 0,5	20	3	28	3	0,01
3,1 - 4,0	0,1	8	d3 + 0,5	20	3	28	3	0,01
4,1 - 5,0	0,1	10	d3 + 0,7	20	4	28	4	0,01
5,1 - 6,0	0,1	12	d3 + 0,7	20	4	28	4	0,02
6,1 - 8,0	0,1	15	d3 + 0,7	20	4	28	4	0,02
8,1 - 10,0	0,1	18	d3 + 1,0	20	4	28	4	0,02
10,1 - 12,0	0,1	22	d3 + 1,0	20	5	28	5	0,02
12,1 - 15,0	0,1	26	d3 + 1,0	20	5	28	5	0,02
15,5 - 18,0	0,5	30	d3 + 1,0	—	—	28	5	0,02

Schneidbuchsen DIN 9845 mit Bund, Form B

Die buttons DIN 9845 with collar, Form B

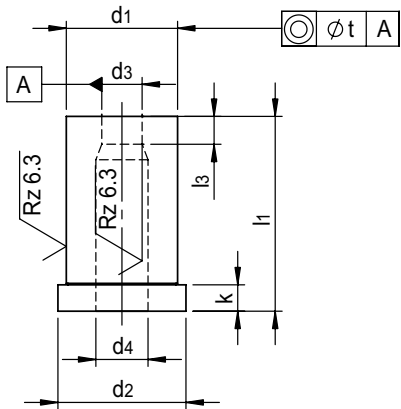
SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 792

Mat.: HSS
Härte: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

SE 792 / 3,0 x 28



d3 H8	Stufung Graduation	d1 k6	d2	d4	kurze Ausführung short version			lange Ausführung long version			t
					l1 +0,5	l3	k	l1 +0,5	l3	k	
1,0	0,1	5	7	d3 + 0,3	20	2	4	—	—	—	0,01
1,1 - 2,0	0,1	6	8	d3 + 0,3	20	3	4	28	3	4	0,01
2,1 - 3,0	0,1	7	9	d3 + 0,5	20	3	4	28	3	4	0,01
3,1 - 4,0	0,1	8	10	d3 + 0,5	20	3	4	28	3	4	0,01
4,1 - 5,0	0,1	10	12	d3 + 0,7	20	4	4	28	4	4	0,01
5,1 - 6,0	0,1	12	14	d3 + 0,7	20	4	4	28	4	4	0,02
6,1 - 8,0	0,1	15	17	d3 + 0,7	20	4	4	28	4	4	0,02
8,1 - 10,0	0,1	18	20	d3 + 1,0	20	4	4	28	4	4	0,02
10,1 - 12,0	0,1	22	24	d3 + 1,0	20	5	4	28	5	4	0,02
12,1 - 15,0	0,1	26	28	d3 + 1,0	20	5	4	28	5	4	0,02
15,5 - 18,0	0,5	30	32	d3 + 1,0	—	—	—	28	5	4	0,02

Schneidbuchsen, Typ ED, ohne Bund, ISO 8977A

Die buttons, type ED, without collar, ISO 8977A

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 711 ED

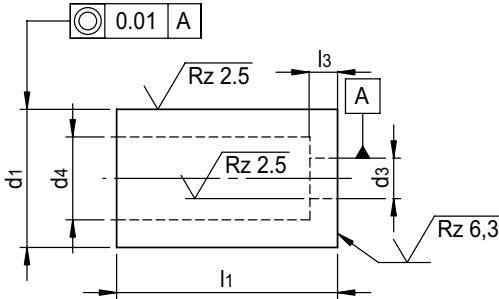
Mat.: HSS
Härte: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

SE 711 ED /
20 x 25 / d3

Buchsen mit Verdrehsicherung auf Wunsch lieferbar (bei Bestellung angeben).

Bushings with rotation prevention available, please specify when ordering.



d1 m5	l3	d3 +0,02 Stufung/step 0,01	d4	l1 +0,5								
				16	19	20	22	25	28	30	32	35
5	2	1,0-2,4	2,8	●		●	●	●	●	●	●	●
6	3	1,6-3,0	3,5	●		●	●	●	●	●	●	●
8	4	2,0-3,5	4,0	●		●	●	●	●	●	●	●
10	4	2,5-5,0	5,8	●		●	●	●	●	●	●	●
13	5	3,0-7,0	8,0			●	●	●	●	●	●	●
16	5	4,0-9,0	9,5			●	●	●	●	●	●	●
19*	4	5,0-10,0	11,0		●			●		●	●	
20	8	6,0-11,0	12,0			●	●	●	●	●	●	●
22	8	8,0-11,0	15,0			●	●	●	●	●	●	●
25	8	8,0-16,0	17,3			●	●	●	●	●	●	●
32	8	8,0-20,0	20,7			●	●	●	●	●	●	●
38*	6	16,0-26,0	28,0							●	●	
40	8	19,0-27,0	27,7			●	●	●	●	●	●	●
50	8	26,0-36,0	37,0			●	●	●	●	●	●	●
55*	8	35,0-41,0	42,0							●	●	
* = nicht nach ISO 8977A / not in acc. with ISO 8977A												

Schneidbuchsen, Typ EKD, mit Bund, ISO 8977B

Die buttons, type EKD, with collar, ISO 8977B

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 713 EKD

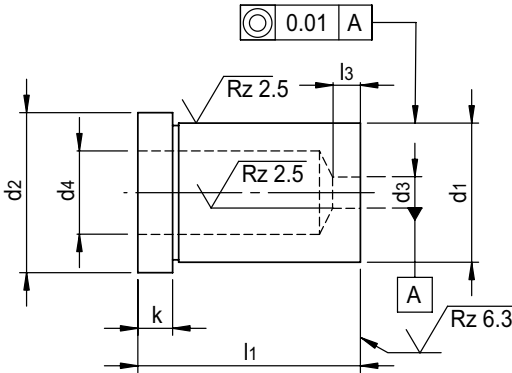
Mat.: HSS
Härte: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

SE 713 EKD /
20 x 25 / d3

Buchsen mit Verdrehssicherung auf Wunsch lieferbar (bei Bestellung angeben).

Bushings with rotation prevention available, please specify when ordering.



d1 m5	d2 +0,3	l3	k	d3 +0,02 Stufung/step 0,01	d4	l1 +0,5							
						16	20	22	25	28	30	32	35
5	8	2	5	1,0 - 2,4	2,8	●	●	●	●	●	●	●	●
6	9	3	5	1,6 - 3,0	3,5	●	●	●	●	●	●	●	●
8	11	4	5	2,0 - 3,5	4,0	●	●	●	●	●	●	●	●
10	13	4	5	2,5 - 5,0	5,8	●	●	●	●	●	●	●	●
13	16	5	5	3,0 - 7,0	8,0		●	●	●	●	●	●	●
16	19	5	5	4,0 - 9,0	9,5		●	●	●	●	●	●	●
19*	22	4	5	5,0 - 10,0	11,0				●	●	●	●	●
20	23	8	5	6,0 - 11,0	12,0		●	●	●	●	●	●	●
22	25	8	5	8,0 - 14,0	15,0		●	●	●	●	●	●	●
25	28	8	5	8,0 - 16,0	17,3		●	●	●	●	●	●	●
32	35	8	5	8,0 - 20,0	20,7		●	●	●	●	●	●	●
38*	42	6	5	16,0 - 26,0	28,0					●		●	●
40	43	8	5	19,0 - 27,0	27,7		●	●	●	●	●	●	●
50	53	8	5	26,0 - 36,0	37,0		●	●	●	●	●	●	●
55*	58	8	5	35,0 - 41,0	42,0								●
* = nicht nach ISO 8977B / not in acc. with ISO 8977B													

Schneidb., Typ. EDF, EDO, EDR, EDS, o. Bund, ISO 8977A

Die buttons without collar, Typ. EDF, EDO, EDR, EDS, ISO 8977A

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 715 ...

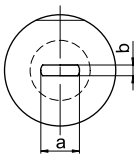
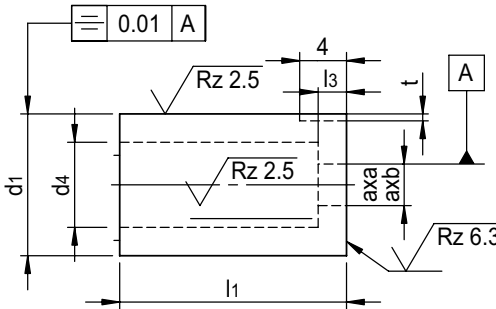
Mat.: HSS
Härte: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

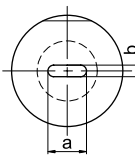
SE 715 EDF /
20 x 25 / a x b

Buchsen ohne Verdrehssicherung auf Wunsch lieferbar (bei Bestellung angeben).

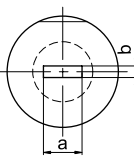
Bushings without rotation prevention available, please specify when ordering.



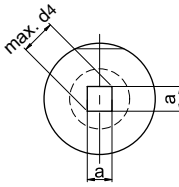
EDF



EDO



EDR



EDS



d1 n5	a x b ±0,01 Stufung/step 0,01 ≥ ≤	l3	d4	t	l1 +0,5								
					16	19	20	22	25	28	30	32	35
5	1,0 - 2,4	2	2,8	0,5	●		●	●	●	●	●	●	●
6	1,6 - 3,0	3	3,5	0,5	●		●	●	●	●	●	●	●
8	2,0 - 3,5	4	4,0	0,5	●		●	●	●	●	●	●	●
10	2,5 - 5,0	4	5,8	2,0	●		●	●	●	●	●	●	●
13	3,0 - 7,0	5	8,0	2,0			●	●	●	●	●	●	●
16	4,0 - 9,0	5	9,5	2,0			●	●	●	●	●	●	●
19*	5,0 - 10,0	4	11,0	2,0		●			●		●	●	
20	6,0 - 11,0	8	12,0	2,0			●	●	●	●	●	●	●
22	8,0 - 11,0	8	12,0	2,0			●	●	●	●	●	●	●
25	8,0 - 16,0	8	17,3	2,0			●	●	●	●	●	●	●
32	8,0 - 20,0	8	20,7	2,0			●	●	●	●	●	●	●
38*	16,0 - 26,0	6	28,0	2,0							●	●	
40	19,0 - 27,0	8	27,7	2,0			●	●	●	●	●	●	●
50	26,0 - 36,0	8	37,0	2,0			●	●	●	●	●	●	●
55*	35,0 - 41,0	8	42,0	2,0							●	●	
* = nicht nach ISO 8977A / not in acc. with ISO 8977A													

SE 717

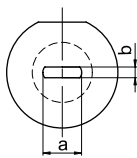
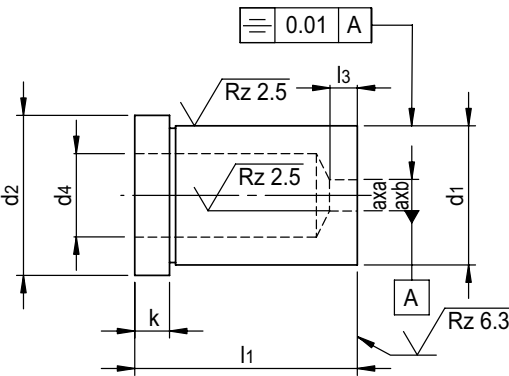
Mat.: HSS
Härte: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

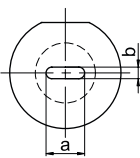
SE 717 EKDO /
20 x 25 / a x b

Buchsen ohne Verdrehssicherung
auf Wunsch lieferbar (bei Bestellung
angeben).

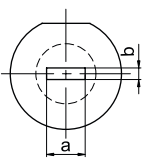
Bushings without rotation preven-
tion available, please specify when
ordering.



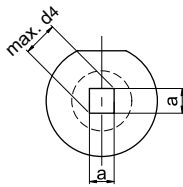
EKDF



EKDO



EKDR



EKDS



d1 m5	a x b ±0,01 Stufung/step 0,01 ≥ ≤	d2 +0,3	l3	k +0,25	d4	l1 +0,5							
						16	20	22	25	28	30	32	35
5	1,0 - 2,4	8	2	5	2,8	●	●	●	●	●	●	●	●
6	1,6 - 3,0	9	3	5	3,5	●	●	●	●	●	●	●	●
8	2,0 - 3,5	11	4	5	4,0	●	●	●	●	●	●	●	●
10	2,5 - 5,0	13	4	5	5,8	●	●	●	●	●	●	●	●
13	3,0 - 7,0	16	5	5	8,0		●	●	●	●	●	●	●
16	4,0 - 9,0	19	5	5	9,5		●	●	●	●	●	●	●
19*	5,0 - 10,0	22	4	5	11,0				●	●	●	●	●
20	6,0 - 11,0	23	8	5	12,0		●	●	●	●	●	●	●
22	8,0 - 14,0	25	8	5	15,0		●	●	●	●	●	●	●
25	8,0 - 16,0	28	8	5	17,3		●	●	●	●	●	●	●
32	8,0 - 20,0	35	8	5	20,7		●	●	●	●	●	●	●
38*	16,0 - 26,0	42	6	5	28,0					●		●	●
40	19,0 - 27,0	43	8	5	27,7		●	●	●	●	●	●	●
50	26,0 - 36,0	53	8	5	37,0		●	●	●	●	●	●	●
55*	35,0 - 41,0	58	8	5	42,0								●
*	= nicht nach ISO 8977B / not in acc. with ISO 8977B												

SE 711 EDL

Typ EDL, ohne Bund

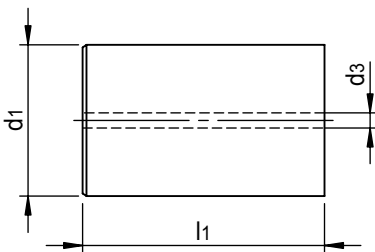
Type EDL, without collar

Mat.: HSS
Härte: 64 ±2 HRC

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

SE 711 EDL /
20 x 35

Andere Längen auf Wunsch lieferbar. Other lengths available on request.



d1 n5	d3	l1 +0,5 35
5	1,5	●
6	1,5	●
8	2	●
10	3	●
13	3	●
16	3	●
19*	3	●
20	4	●
22	4	●
25	4	●
32	4	●
38*	5	●
40	5	●
50	5	●
55*	5	●
* = nicht nach ISO 8977A / not in acc. with ISO 8977A		



SE 713 EKDL

Typ EKDL, mit Bund

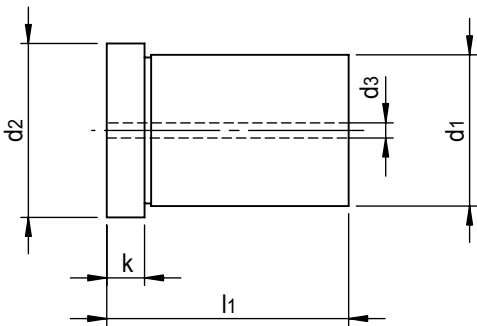
Mat.: HSS
Härte: 64 ±2 HRC

Typ EKDL, with collar

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

SE 713 EKDL /
20 x 35

Andere Längen auf Wunsch lieferbar. Other lengths available on request.



d1 m5	d2	d3	k +0,25	l1 +0,5 35
5	8	1,5	5	●
6	9	1,5	5	●
8	11	2	5	●
10	13	3	5	●
13	16	3	5	●
16	19	3	5	●
19*	22	3	5	●
20	23	4	5	●
22	25	4	5	●
25	28	4	5	●
32	35	4	5	●
38*	42	5	5	●
40	43	5	5	●
50	53	5	5	●
55*	58	5	5	●

* = nicht nach ISO 8977B / not in acc. with ISO 8977B



SE 711 EDM

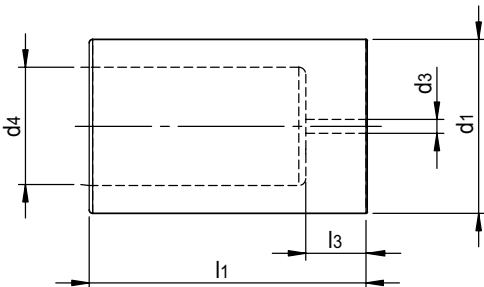
Typ EDM, ohne Bund

Mat.: HSS
Härte: 64 ±2 HRC

Type EDM, without collar

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

SE 711 EDM /
20 x 35



d1 n5	d3	l3	d4	l1 +0,5								
				16	19	20	22	25	28	30	32	35
5	1,5	2	2,8	●		●	●	●	●	●	●	●
6	1,5	3	3,5	●		●	●	●	●	●	●	●
8	2,0	4	4,0	●		●	●	●	●	●	●	●
10	3,0	4	5,8	●		●	●	●	●	●	●	●
13	3,0	5	8,0			●	●	●	●	●	●	●
16	3,0	5	9,5			●	●	●	●	●	●	●
19*	3,0	5	11,0		●			●		●	●	
20	4,0	8	12,0			●	●	●	●	●	●	●
22	4,0	8	15,0			●	●	●	●	●	●	●
25	4,0	8	17,3			●	●	●	●	●	●	●
32	4,0	8	20,7			●	●	●	●	●	●	●
38*	5,0	6	28,0							●	●	
40	5,0	8	27,7			●	●	●	●	●	●	●
50	5,0	8	37,0			●	●	●	●	●	●	●
55*	5,0	8	42,0							●	●	

* = nicht nach ISO 8977A / not in acc. with ISO 8977A



SE 713 EKDM

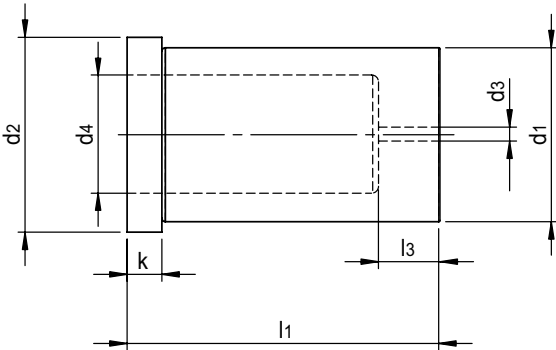
Typ EKDM, mit Bund

Mat.: HSS
Härte: 64 ±2 HRC

Typ EKDM, with collar

Mat.: HSS (e.g. M2)
Hardness: 64 ±2 HRC

SE 713 EKDM /
20 x 35



d1 m5	d3	d2 +0,3	l3	d4	k +0,25	l1 +0,5							
						16	20	22	25	28	30	32	35
5	1,5	8	2,0	2,8	5	●	●	●	●	●	●	●	●
6	1,5	9	3,0	3,5	5	●	●	●	●	●	●	●	●
8	2,0	11	4,0	4,0	5	●	●	●	●	●	●	●	●
10	3,0	13	4,0	5,8	5	●	●	●	●	●	●	●	●
13	3,0	16	5,0	8,0	5		●	●	●	●	●	●	●
16	3,0	19	5,0	9,5	5		●	●	●	●	●	●	●
19*	3,0	22	4,0	11,0	5				●	●	●	●	●
20	4,0	23	8,0	12,0	5		●	●	●	●	●	●	●
22	4,0	25	8,0	15,0	5		●	●	●	●	●	●	●
25	4,0	28	8,0	17,3	5		●	●	●	●	●	●	●
32	4,0	35	8,0	20,7	5		●	●	●	●	●	●	●
38*	5,0	42	6,0	28,0	5					●		●	●
40	5,0	43	8,0	27,7	5		●	●	●	●	●	●	●
50	5,0	53	8,0	37,0	5		●	●	●	●	●	●	●
55*	5,0	58	8,0	42,0	5								●

* = nicht nach ISO 8977B / not in acc. with ISO 8977B

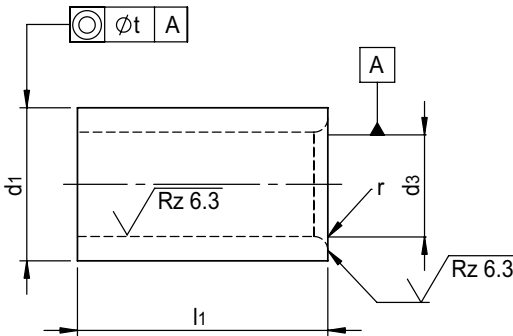


SE 793

Mat.: Einsatzstahl
Härte: 62 ±2 HRC

Mat.: Case-hardening steel
Hardness: 62 ±2 HRC

SE 793 / 3,0



d3 H7	Stufung Graduation	d1 n6	l1	r	t
1,0	0,1	5	9	1,0	0,01
1,1-2,0	0,1	6	12	1,0	0,01
2,1-3,0	0,1	7	12	1,0	0,01
3,1-4,0	0,1	8	12	1,0	0,01
4,1-5,0	0,1	10	16	1,0	0,01
5,1-6,0	0,1	12	16	1,5	0,02
6,1-8,0	0,1	15	20	1,5	0,02
8,1-10,0	0,1	18	20	2,0	0,02
10,1-12,0	0,1	22	28	2,0	0,02
12,1-15,0	0,1	26	28	2,0	0,02
15,5-18,0	0,5	30	36	2,0	0,02



SE 300

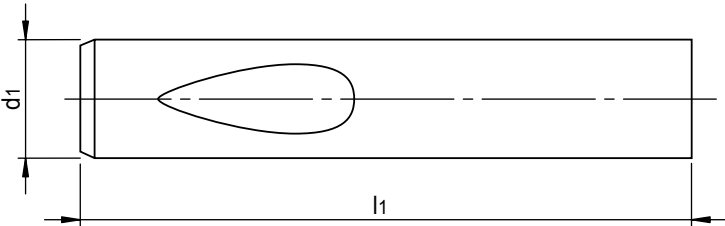
Schwere Ausführung

Heavy duty

Mat.: HSS
Härte: 60 - 63 HRC

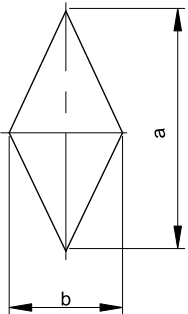
Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC

SE 300 / 13 x 80

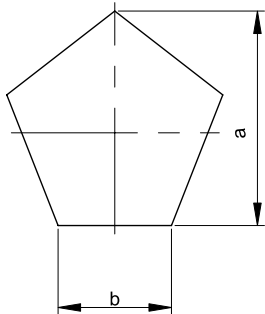


d1 g5	63	71	80	l1 +0,3 90	100	110	125
10	●	●	●	●	●	●	●
13	●	●	●	●	●	●	●
16	●	●	●	●	●	●	●
20	●	●	●	●	●	●	●
25		●	●	●	●	●	●
32		●	●	●	●	●	●
40			●	●	●	●	●

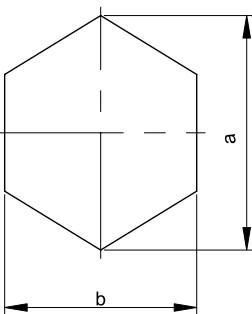
SP1



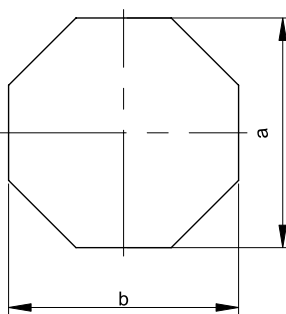
SP2



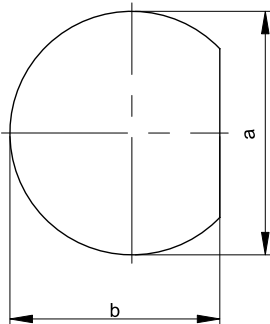
SP3



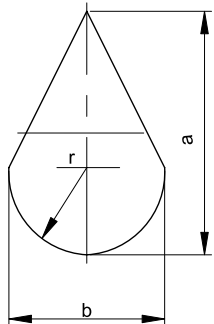
SP4



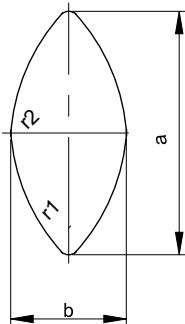
SP5



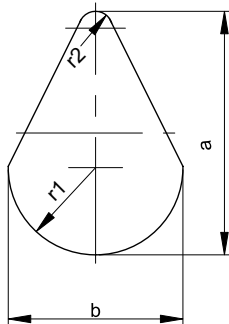
SP6



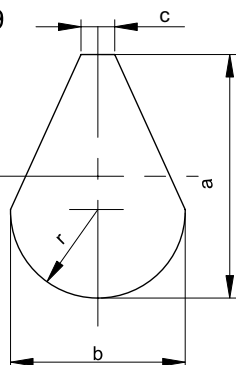
SP7



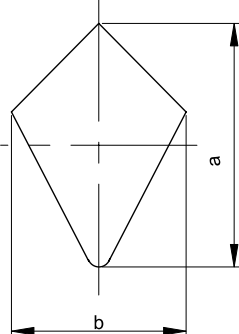
SP8



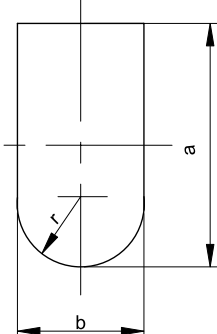
SP9



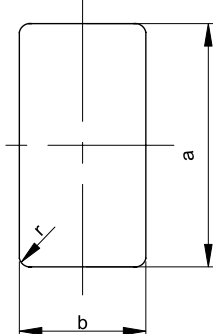
SP10



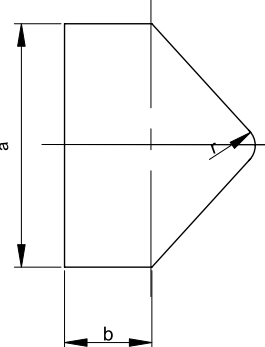
SP11



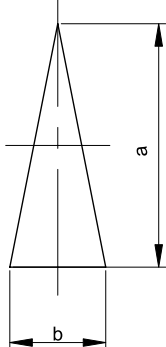
SP12



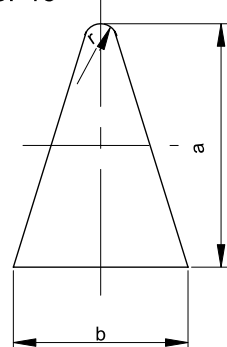
SP13



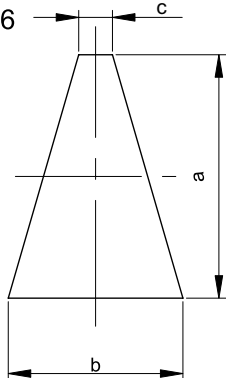
SP14



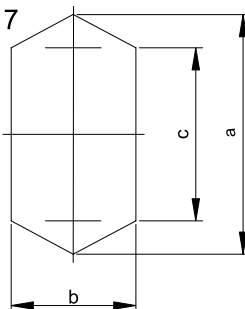
SP15



SP16



SP17



Schnellwechsel-Schneidstempel

Ball lock punches

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 320

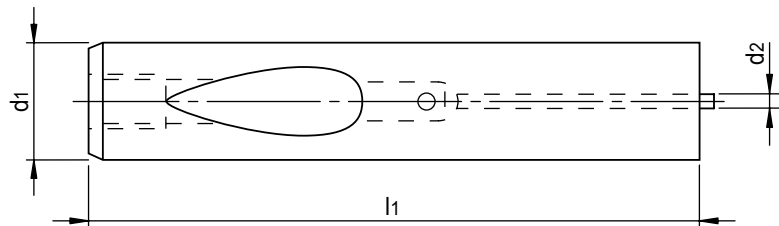
Schwere Ausführung
mit federndem Auswerferstift

Mat.: HSS
Härte: 60 - 63 HRC

Heavy duty
with spring ejector

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC

SE 320 / 13 x 80



d1 g5	d2	63	71	80	l1 +0,3 90	100	110	125
10	1,5	●	●	●	●	●		
13	1,5	●	●	●	●	●	●	●
16	1,5	●	●	●	●	●	●	●
20	2,4	●	●	●	●	●	●	●
25	2,4		●	●	●	●	●	●
32	2,4		●	●	●	●	●	●
40	2,4			●	●	●	●	●



Schnellwechsel-Schneidstempel, abgesetzter Schaft

Ball lock punches, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 301

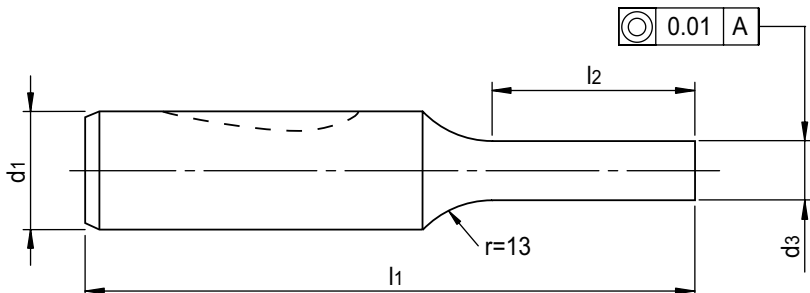
Schwere Ausführung

Mat.: HSS
Härte: 60 - 63 HRC

Heavy duty

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC

SE 301 /
20 x 19 x 80 / d3



d1 g5	d3 min. +0,01	l2 +1				l1 +0,3						
		10	13	19	25	63	71	80	90	100	110	125
10	2,1	●	●	●		●	●	●	●	●	●	●
13	5		●	●		●	●	●	●	●	●	●
16	8		●	●	●	●	●	●	●	●	●	●
20	12		●	●	●	●	●	●	●	●	●	●
25	16		●	●	●		●	●	●	●	●	●
32	24		●	●	●		●	●	●	●	●	●
40	30			●	●			●	●	●	●	●





SE 321

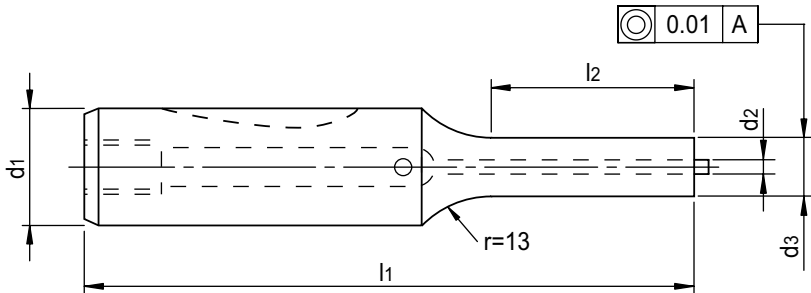
Schwere Ausführung
mit federndem Auswerferstift

Heavy duty
with spring ejector

SE 321 /
20 x 13 x 80 / d3

Mat.: HSS
Härte: 60 - 63 HRC

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC



d1 g5	d2	d3 min. +0,01	l2 +1				l1 +0,3						
			10	13	19	25	63	71	80	90	100	110	125
10	1,5	2,1	●	●	●		●	●	●	●	●	●	
13	1,5	5		●	●		●	●	●	●	●	●	●
16	1,5	8		●	●	●	●	●	●	●	●	●	●
20	2,4	12		●	●	●	●	●	●	●	●	●	●
25	2,4	16		●	●	●		●	●	●	●	●	●
32	2,4	24		●	●	●		●	●	●	●	●	●
40	2,4	30			●	●			●	●	●	●	●



SE 302 .

Schwere Ausführung

Heavy duty

SE 302 O / 20 x 19 x
80 / a x b / 45°

Mat.: HSS
Härte: 60 - 63 HRC

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC

Bei der Bestellung bitte die Position
der Kugellage angeben (Bild 1).

When ordering, please specify the
ball position (Fig. 1).

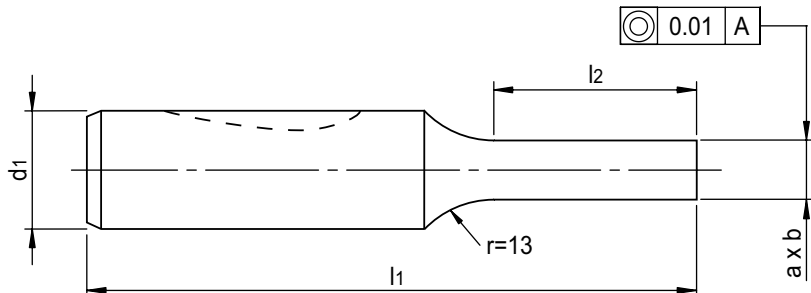
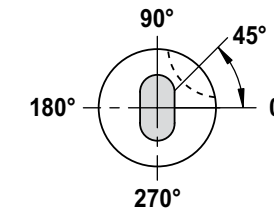
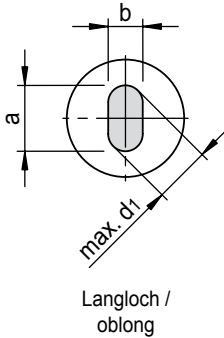


Bild 1/ Fig. 1

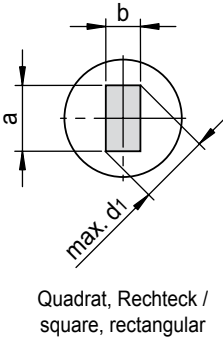


Typ / Type O



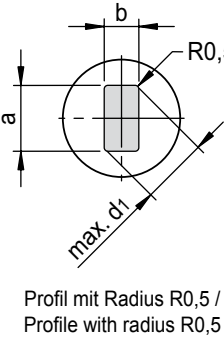
Langloch /
oblong

Typ / Type S



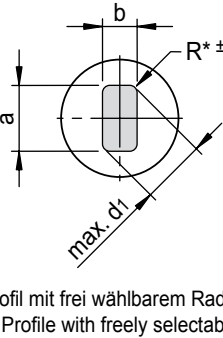
Quadrat, Rechteck /
square, rectangular

Typ / Type H



Profil mit Radius R0,5 /
Profile with radius R0,5

Typ / Type L



Profil mit frei wählbarem Radius /
Profile with freely selectable
radius

* Bei Typ L ist der
Radius R frei wählbar.
Bitte bei der Bestellung
den Radius angeben.

* With type L the radius R
is freely selectable.
Please specify the
radius when ordering.



d1 g5	a min. ±0,01	b min. ±0,01	l2 +1				l1 +0,3						
			10	13	19	25	63	71	80	90	100	110	125
10	2,1	2,1	●	●	●		●	●	●	●	●	●	●
13	5	4,5		●	●		●	●	●	●	●	●	●
16	8	6		●	●	●	●	●	●	●	●	●	●
20	12	8		●	●	●	●	●	●	●	●	●	●
25	16	10		●	●	●		●	●	●	●	●	●
32	24	12,5		●	●	●		●	●	●	●	●	●
40	30	14			●	●			●	●	●	●	●

Schnellwechsel-Schneidstempel, abgesetzter Schaft

Ball lock punches, shouldered shank

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 322 .

Schwere Ausführung
mit federndem Auswerferstift

Heavy duty
with spring ejector

SE 322 O/ 20 x 19 x
80 / a x b / 45°

Mat.: HSS
Härte: 60 - 63 HRC

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC

Bei der Bestellung bitte die Position
der Kugellage angeben (Bild 1).

When ordering, please specify the
ball position (Fig. 1).

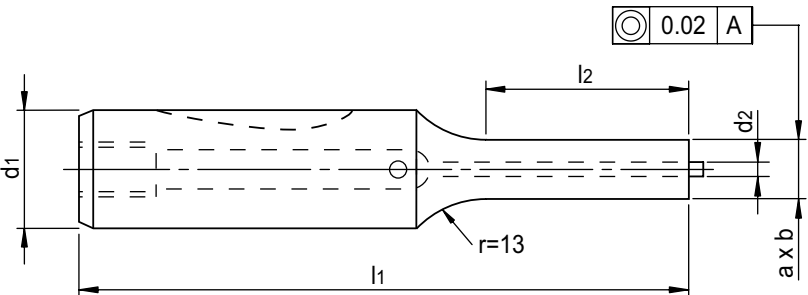
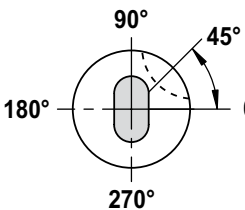


Bild 1/ Fig. 1

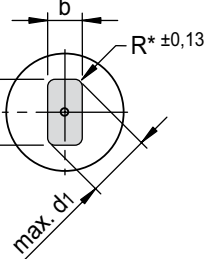
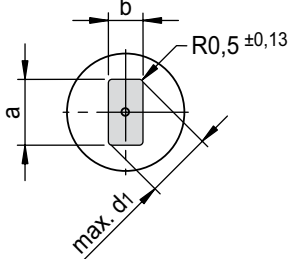
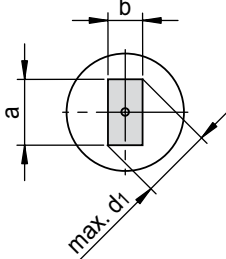
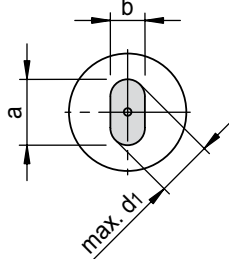


Typ / Type O

Typ / Type S

Typ / Type H

Typ / Type L



* Bei Typ L ist der
Radius R frei wählbar.
Bitte bei der Bestellung
den Radius angeben.

* With type L the radius R
is freely selectable.
Please specify the
radius when ordering.

Langloch /
oblong

Quadrat, Rechteck /
square, rectangular

Profil mit Radius R0,5 /
Profile with radius R0,5

Profil mit frei wählbarem Radius /
Profile with freely selectable
radius



d1 g5	d2	a min. ±0,01	b min. ±0,01	l2 +1				l1 +0,3						
				10	13	19	25	63	71	80	90	100	110	125
10	1,5	2,1	2,1	●	●	●		●	●	●	●	●	●	
13	1,5	5	4,5		●	●		●	●	●	●	●	●	●
16	1,5	8	6		●	●	●	●	●	●	●	●	●	●
20	2,4	12	8		●	●	●	●	●	●	●	●	●	●
25	2,4	16	10		●	●	●		●	●	●	●	●	●
32	2,4	24	12,5		●	●	●		●	●	●	●	●	●
40	2,4	30	14			●	●			●	●	●	●	●

Schnellwechsel-Schneidstempel, Schneide größer Schaft

Ball lock punches, inverted

SCHNEIDELEMENTE / CUTTING ELEMENTS



SE 303

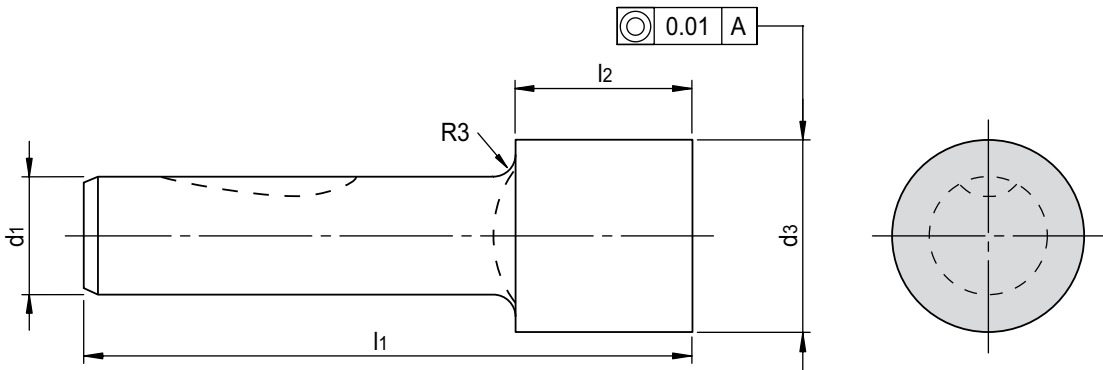
Schwere Ausführung

Heavy duty

SE 303 /
20 x 30 x 71 / d3

Mat.: HSS
Härte: 60 - 63 HRC

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC



d1 g5	d3 min. +0,01	d3 max. +0,01	l2 +1		l1 +0,3			
			19	30	71	80	90	100
13	13,1	32	●	●	●	●	●	●
16	16,1	38	●	●	●	●	●	●
20	20,1	40	●	●	●	●	●	●
25	25,1	44	●	●	●	●	●	●
32	32,1	50	●	●		●	●	●
40	40,1	56	●	●		●	●	●



Ball lock punches, inverted

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 323

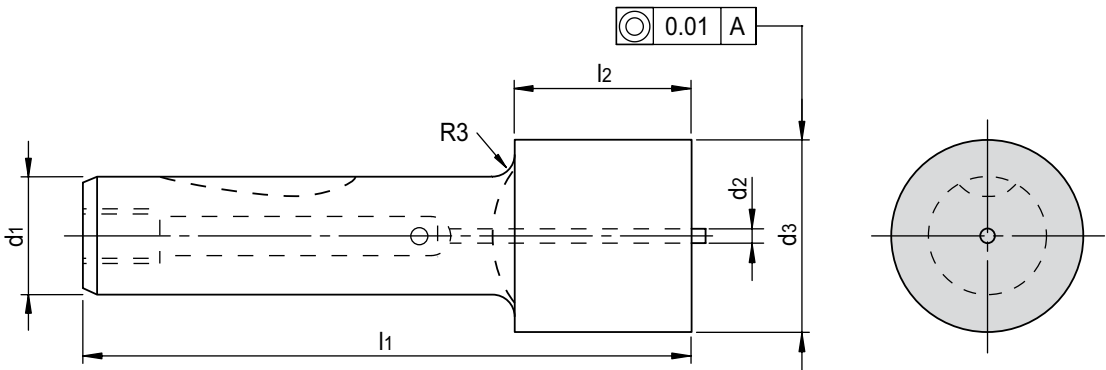
Schwere Ausführung
mit federndem Auswerferstift

Heavy duty
with spring ejector

SE 323 /
20 x 30 x 71 / d3

Mat.: HSS
Härte: 60 - 63 HRC

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC



d1 g5	d2	d3 min. +0,01	d3 max. +0,01	l2 +1		l1 +0,3			
				19	30	71	80	90	100
13	1,5	13,1	32	●	●	●	●	●	●
16	1,5	16,1	38	●	●	●	●	●	●
20	2,4	20,1	40	●	●	●	●	●	●
25	2,4	25,1	44	●	●	●	●	●	●
32	2,4	32,1	50	●	●		●	●	●
40	2,4	40,1	56	●	●		●	●	●

Ball lock punches, inverted

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 304 .

Schwere Ausführung

Heavy duty

SE 304 O / 20 x 30 x
80 / a x b / 45°

Mat.: HSS
Härte: 60 - 63 HRC

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC

Bei der Bestellung bitte die Position
der Kugellage angeben (Bild 1).

When ordering, please specify the
ball position (Fig. 1).

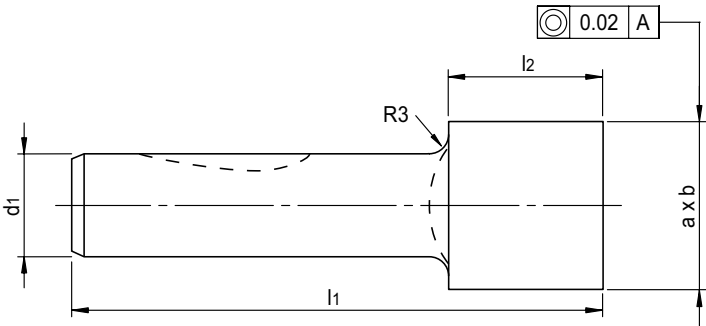
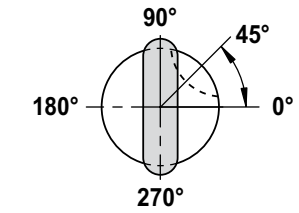
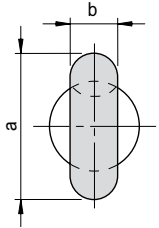


Bild 1/ Fig. 1

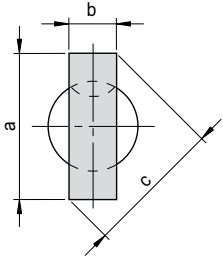


Typ / Type O



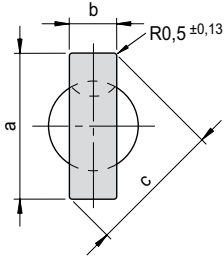
Langloch /
oblong

Typ / Type S



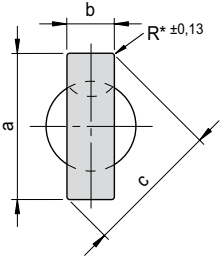
Quadrat, Rechteck /
square, rectangular

Typ / Type H



Profil mit Radius R0,5 /
Profile with radius R0,5

Typ / Type L



Profil mit frei wählbarem Radius /
Profile with freely selectable
radius

* Bei Typ L ist der
Radius R frei wählbar.
Bitte bei der Bestellung
den Radius angeben.

* With type L the radius R
is freely selectable.
Please specify the
radius when ordering.



d1 g5	a max. ±0,01	b min. ±0,01	c max.	l2 +1		l1 +0,3			
				19	30	71	80	90	100
13	32	5	32	●	●	●	●	●	●
16	38	6,5	38	●	●	●	●	●	●
20	40	8	40	●	●	●	●	●	●
25	44	11	44	●	●	●	●	●	●
32	50	12,5	50	●	●		●	●	●
40	56	14	56	●	●		●	●	●

Ball lock punches, inverted

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 324 .

Schwere Ausführung
mit federndem Auswerferstift

Heavy duty
with spring ejector

SE 324 O/ 20 x 30 x
80 / a x b / 45°

Mat.: HSS
Härte: 60 - 63 HRC

Mat.: HSS (e.g. M2)
Hardness: 60 - 63 HRC

Bei der Bestellung bitte die Position
der Kugellage angeben (Bild 1).

When ordering, please specify the
ball position (Fig. 1).

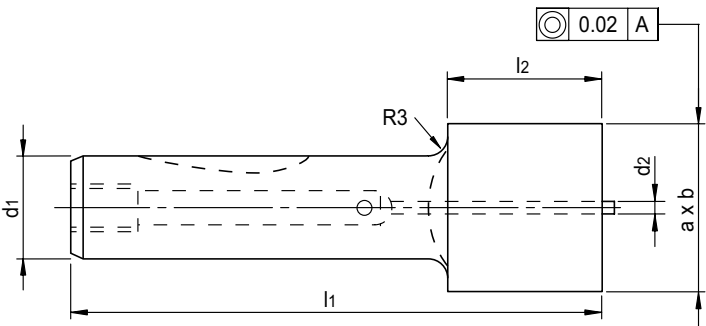
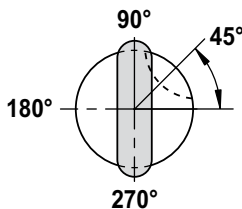
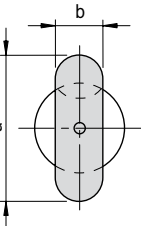


Bild 1/ Fig. 1

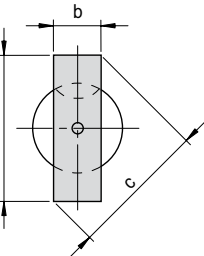


Typ / Type O



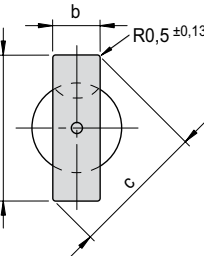
Langloch /
oblong

Typ / Type S



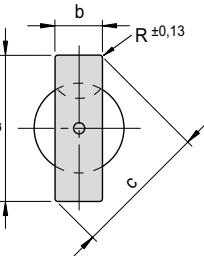
Quadrat, Rechteck /
square, rectangular

Typ / Type H



Profil mit Radius R0,5 /
Profile with radius R0,5

Typ / Type L



Profil mit frei wählbarem Radius /
Profile with freely selectable
radius

* Bei Typ L ist der
Radius R frei wählbar.
Bitte bei der Bestellung
den Radius angeben.

* With type L the radius R
is freely selectable.
Please specify the
radius when ordering.



d1 g5	d2	a max. ±0,01	b min. ±0,01	c max.	l2 +1		l1 +0,3			
					19	30	71	80	90	100
13	1,5	32	5	32	●	●	●	●	●	●
16	1,5	38	6,5	38	●	●	●	●	●	●
20	2,4	40	8	40	●	●	●	●	●	●
25	2,4	44	11	44	●	●	●	●	●	●
32	2,4	50	12,5	50	●	●		●	●	●
40	2,4	56	14	56	●	●		●	●	●

Ball lock die buttons, round

SCHNEIDELEMENTE / CUTTING ELEMENTS

SE 340

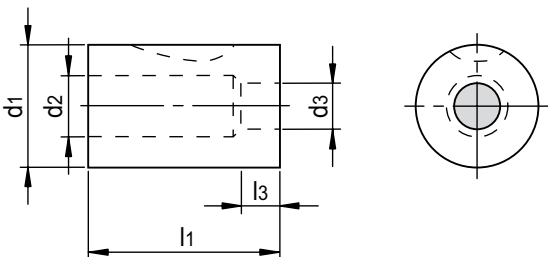
Leichte Ausführung

Light duty

SE 340 / 20 / d3

Mat.: HWS
Härte: 60 - 63 HRC

Mat.: HWS (e.g. A2)
Hardness: 60 - 63 HRC



d1 g5	d3 +0,01 ≥ ≤	d2 max.	l1 +0,3	l3
13	1,5 - 5,0	6	32	4
16	3,2 - 7,0	8	32	5
20	4,0 - 11,0	12	32	5
25	8,0 - 15,0	16	32	6
32	11,0 - 19,0	20	32	6
38	16,5 - 26,0	27	32	8





SE 341 .

Leichte Ausführung

Light duty

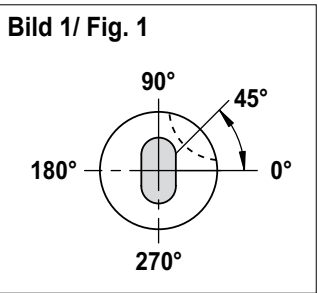
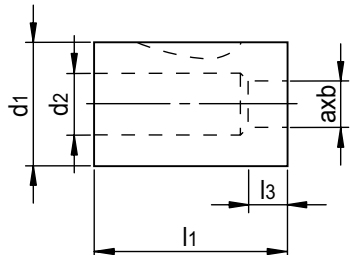
SE 341 S / 16 /
a x b / 45°

Mat.: HWS
Härte: 60 - 63 HRC

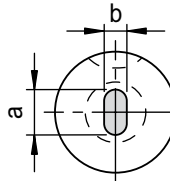
Mat.: HWS (e.g. A2)
Hardness: 60 - 63 HRC

Bei der Bestellung bitte die Position
der Kugellage angeben (Bild 1).

When ordering, please specify the
ball position (Fig. 1).

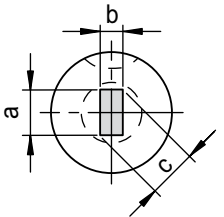


Typ / Type O



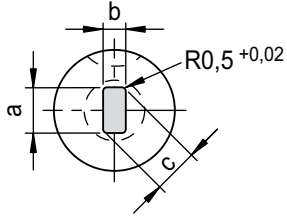
Langloch /
oblong

Typ / Type S



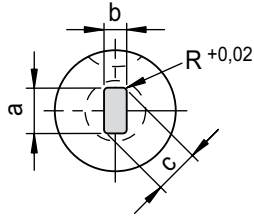
Quadrat, Rechteck /
square, rectangular

Typ / Type H



Profil mit Radius R0,5 /
Profile with radius R0,5

Typ / Type L



Profil mit frei wählbarem Radius /
Profile with freely selectable
radius

* Bei Typ L ist der
Radius R frei wählbar.
Bitte bei der Bestellung
den Radius angeben.

* With type L the radius R
is freely selectable.
Please specify the
radius when ordering.



d1 g5	a +0,02 ≥ ≤	b +0,02 ≥ ≤	d2 max.	c max.	l1 +0,3	l3
13	1,5 - 5,0	1,2 - 5,0	6	5,0	32	4
16	3,2 - 7,0	2,0 - 7,0	8	7,0	32	5
20	4,0 - 11,0	2,4 - 11,0	12	11,0	32	5
25	8,0 - 15,0	4,0 - 15,0	16	15,0	32	6
32	11,0 - 19,0	4,8 - 19,0	20	19,0	32	6
38	16,5 - 26,0	6,4 - 26,0	27	26,0	32	8



SE 390

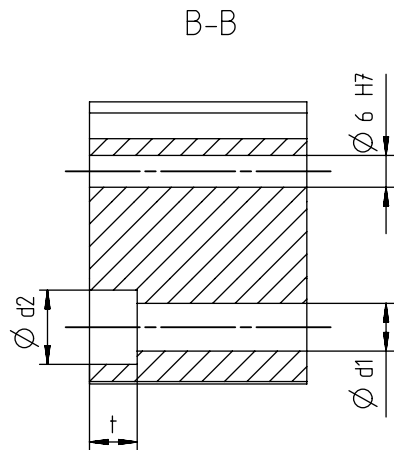
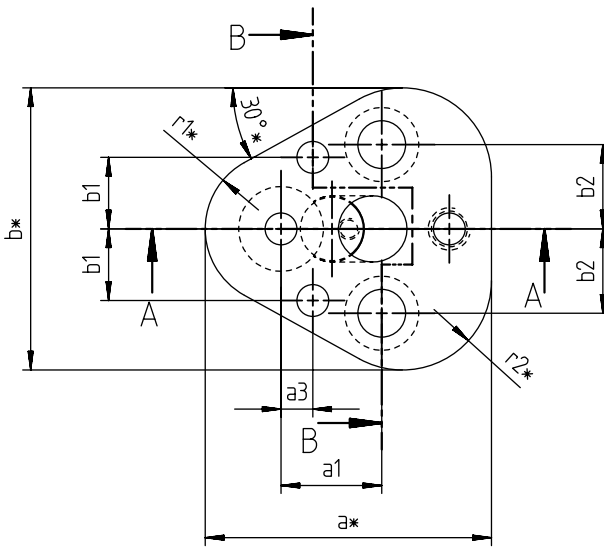
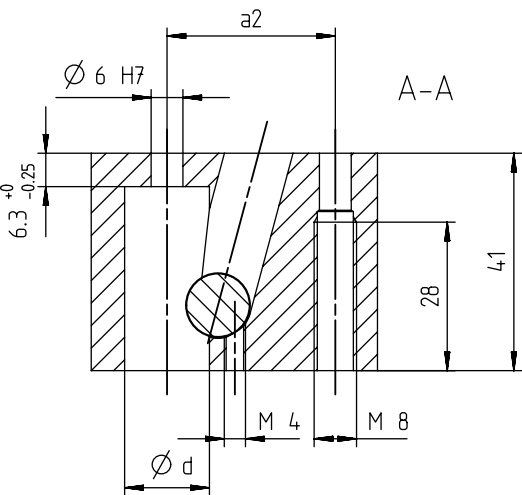
Schwere Ausführung

Heavy duty

SE 390 / 13

Lieferumfang:
Zylinderkopfschrauben, Zylinderstifte
und Gewindestift

Included:
Socket head cap screws, dowel pins
and headless screw



d H6	a*	b*	a3 ±0,01	a1 ±0,13	a2 ±0,01	r1*	r2*	b1 ±0,01	b2 ±0,13	d1	d2	t	Kugel-Ø Ball-Ø	Schraube Screw
10	44,5	43,7	7,5	19,0	26,93	9,5	12,0	9,0	11,1	9,0	15	9	10	M8
13	50,8	50,0	6,5	19,0	29,97	12,7	15,2	12,0	14,3	9,0	15	9	12	M8
16	54,0	53,2	6,0	19,0	31,75	14,3	16,8	13,5	15,9	9,0	15	9	12	M8
20	60,3	59,5	5,0	19,0	33,53	17,5	20,0	16,5	17,5	11,0	18	11	12	M10
25	69,9	69,1	7,0	23,8	40,64	22,2	24,7	22,0	19,8	13,5	20	13	12	M12
32	69,9	69,1	7,0	23,8	40,64	22,2	24,7	22,0	19,8	13,5	20	13	12	M12
40	77,4	76,6	10,0	27,0	43,99	26,0	28,5	26,0	24,0	13,5	20	13	12	M12

* Konturen können variieren. Größtmaße sind in der Tabelle angegeben.

* Contours may vary. Maximum dimensions are given in the table.

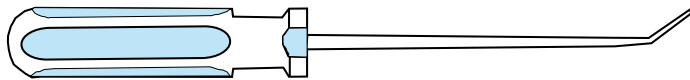


SE 360

abgewinkelte Ausführung

angular

SE 360

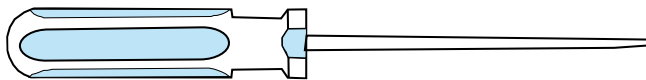


SE 361

gerade Ausführung

straight

SE 361

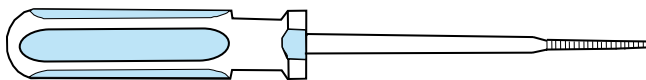


SE 362

Gewindeausführung

threaded

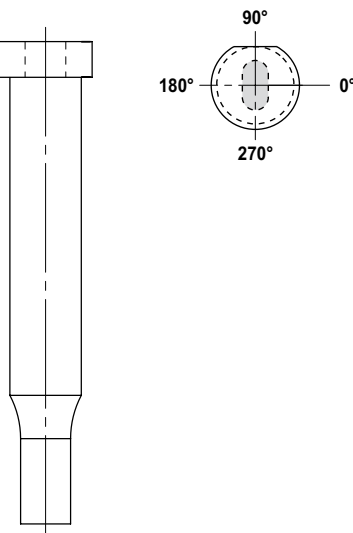
SE 362



Profilierte Schneidstempel und die dazu passenden Schneidbuchsen werden von uns generell mit Verdreh-sicherung ausgeliefert, wobei diese parallel zur langen Seite des Profils angebracht wird. Sollen Schneidelemente ohne Verdreh-sicherung geliefert werden, muss darauf bei der Bestellung hingewiesen werden. Ebenso wenn die Verdreh-sicherung an anderen Positionen oder in anderer Form gewählt werden soll, wie sie auf dieser Seite aufgeführt werden. Die Gradzahl ist frei wählbar und muss der Bestellnummer angehängt werden.

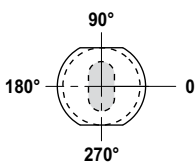
Shaped punches as well as the corresponding bushes are in general equipped with a rotation prevention, positioned alongside the longer side of the punching shape (round punches and bushes only upon request). If punches or bushes without a rotation prevention are needed, please specify during the ordering process. If a different location, shape or size (as shown below) for this purpose is requested, please specify as well. The angle is freely selectable and needs to be stated at the end of the ordering-number.

Verdrehsicherung Typ V1
Rotation prevention Type V1



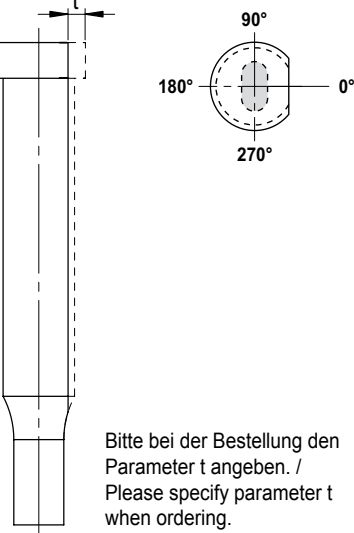
SE ... V1/ 90°

Verdrehsicherung Typ V2
Rotation prevention Type V2



SE ... V2/ 90°

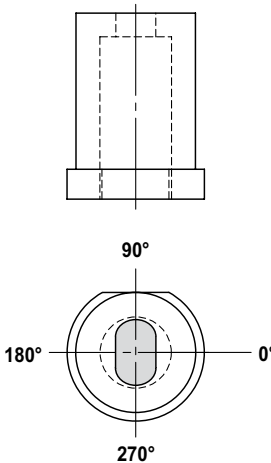
Verdrehsicherung Typ V3
Rotation prevention Type V3



SE ... V3/ 4 / 0°

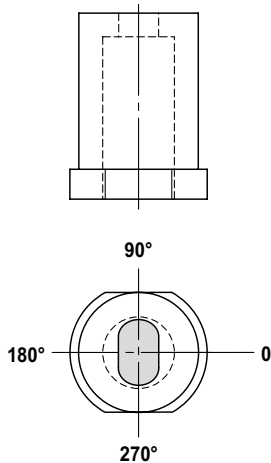
Bitte bei der Bestellung den Parameter t angeben. / Please specify parameter t when ordering.

Verdrehsicherung Typ V4
Rotation prevention Type V4



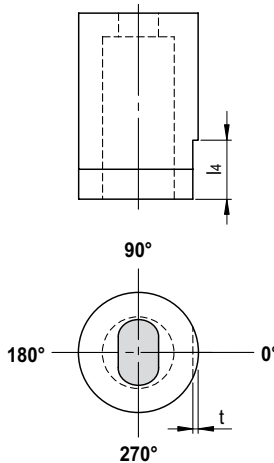
SE ... V4/ 90°

Verdrehsicherung Typ V5
Rotation prevention Type V5



SE ... V5/ 90°

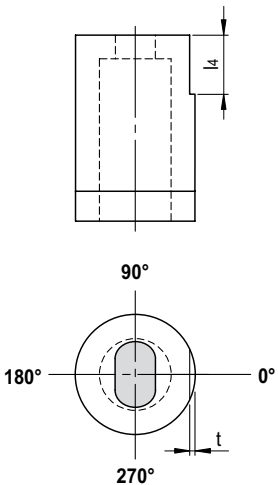
Verdrehsicherung Typ V6
Rotation prevention Type V6



Bitte bei der Bestellung die Parameter t und l4 angeben. / Please specify parameter t and l4 when ordering.

SE ... V6/ 2 x 14 / 0°

Verdrehsicherung Typ V7
Rotation prevention Type V7



Bitte bei der Bestellung die Parameter t und l4 angeben. / Please specify parameter t and l4 when ordering.

SE ... V7/ 2 x 14 / 0°

Bestellbeispiele / Ordering examples

SE	K3	10	90	13	P2	-	8,0	5,0	A1	45°	X1	B1	5
	Stempelkopf Punches head	d1	l1	l2	Profil Profile	d3	a	b	Auswerferstift Spring ejector	Verdreh- sicherung Rotation prevention	Material Material	Beschich- tung Coating	Menge Quantity
Stempelkopf / Punches head K1 K2 K3 K4 Längen / Length Profil / Profile P1 P2 P3 P4 Auswerferstift / Spring ejector A0 = ohne/without A1 = mit/with Beschichtung / Coating B0 = ohne / without B1 = TiN B2 = TiCN B3 = CrN B4 = Bitte angeben Please specify Material X1 = HSS X2 = Vanadis 10 X3 = ASP 23 X4 = CPM 10 V X5 = REX M4 X6 = Böhler S290 X7 = Bitte angeben Please specify Verdrehsicherung / Rotation prevention													

Datum:

Schneidstempel ☐ **Anfrage** ☐ **Auftrag** **Schneidbuchse** ☐ **Anfrage** ☐ **Auftrag**

Firma: _____

Straße/Hausnummer: _____

PLZ/Ort:

Ansprechpartner:

Telefon:**Telefax:**

E-Mail:

Anfrage-Nr.

Auftrags-Nr.

Material:

Beschichtung:

Für Sonderausführungen erbitten wir eine Zeichnung oder CAD-Daten!

Stückzahl:

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.

[06.05.2020]