



Stempel und Matrizen



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Bei der Festlegung des Schneidspieles empfehlen wir folgende Regeln:

Für runde und quadratische Schnittform:

Materialstärke	mm	bis 4	>4 bis 9	bis 9 2b4is 1	4-14 bis 19	>19
Schneidspiel	mm	0,2	0,7	1,2	1,7	2,2

Beispiel: Stempeldurchmesser: 20,0 mm
 Materialstärke: 12,0 mm
 Matrizenöffnung: 21,2 mm

Wird bei Bestellung keine Matrizenöffnung und keine Materialstärke angegeben, so werden Matrizen mit folgendem Schneidspiel geliefert:

Stempel- durchmesser	mm	bis 5	5,5 bis 22	22,5 bis 40	über 40
Schneidspiel	mm	0,2	0,7	1,2	0,7

Beispiel: Bestellter Stempel: 15,0 mm
 geliefert wird die Matrice mit der Öffnung: 15,7 mm

Für Langlochschnittform:

Langlochwerkzeuge werden nach der MUBEA-Norm mit 0,3 mm und 1,0 mm Schneidspiel gefertigt.

Materialstärke	mm	bis 6	>6 bis 14
Schneidspiel	mm	0,3	1,0

Beispiel: Langlochabmessung: 11 x 30 mm
 Materialstärke: 1-6 mm
 =Matrizenöffnung: 11,3 x 30,3 mm
 Materialstärke: über 6 mm
 =Matrizenöffnung: 12 x 31 mm

Falls in der Bestellung keine Istmaße oder Materialstärken für die Langlochmatrizen genannt werden, werden diese mit folgendem Schneidspiel geliefert:

Bis 8 mm Schnittbreite mit 0,3 mm Schneidspiel.
 Über 8 mm Schnittbreite mit 1,0 mm Schneidspiel.

Zwischenabmessungen, die von dieser Norm abweichen, werden auf Wunsch in Einzelfertigung hergestellt.

Auf Wunsch werden die hier aufgeführten Stempel und Matrizentypen als Sonderanfertigung in jeder gewünschten Schnittform hergestellt: z.B. Dreieck-, Rechteck-, Sechskant-, sowie in anderen Spezial-Schnittformen. Die gängigsten Sonderformen wurden bereits genormt und in diesen Katalog aufgenommen.

Zur Vermeidung von Rückfragen ist es zweckmäßig, die genauen Lochmaße und die Anordnung der Löcher im Material in einer Skizze darzustellen.

Bei Langloch, Rechteck oder ähnlichen Werkzeugen über 50 mm Schnittbereich (Sonderanfertigung, nicht genormt) ist anzugeben, ob das Stanzloch lang oder quer zur Maschine stehen soll.

Selbstverständlich fertigt Mubea Aftermarket Services alle Spezialstanzwerkzeuge nach Ihren Angaben (Zeichnung oder Muster).

Darüber hinaus liefert Mubea Aftermarket Services sämtliche Stempel und Matrizen für alle Fremdfabrikate (Stempel oder Muster).

Bei Bestellung von Stempeln und Matrizen, die von dieser Norm (MBN) abweichen, bitte unbedingt die zu bearbeitende Materialstärke und Materialqualität angeben.

Bitte beachten Sie beim Einsatz von MUBEA-Stanzwerkzeugen folgende grundlegende Aspekte:

Alle Werkzeuge dieses Kataloges sind für die Bearbeitung von Material bis zu einer Festigkeit von 600 N/mm² geeignet. Werkzeuge zur Bearbeitung von Material mit höherer Festigkeit werden auf Wunsch einzeln gefertigt.

Achten Sie bitte auf einen gleichmäßigen Schneidspalt zwischen Stempel- und Matrizenöffnung.

Die Matrize muss in der Halterung einen festen Sitz haben. Ebenfalls müssen Stempelhalter und Stempelfutter in ihren Halterungen sicher befestigt sein.

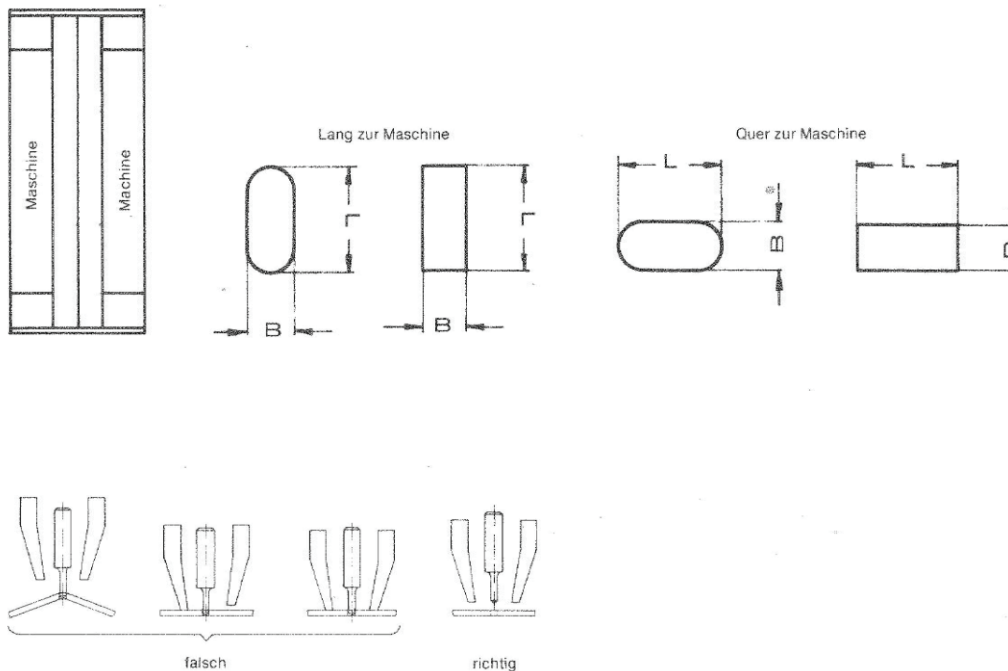
Die Abstreifer oder Niederhalter (siehe nachstehende Skizze) müssen gleichmäßig abstreifen und plan zur Matrizenoberfläche stehen.

Um eine möglichst lange Lebensdauer der Werkzeuge zu erreichen, sollten die Stempel beim Stanzen öfter mit Öl bestrichen werden.

Beim Einsatz von Stempeln nach MBN 50505 in den Schnittformen Langloch, Vierkant sowie in anderen Spezial-Sonderformen muss der mitgelieferte Verdrehstift eingesetzt werden.

Um eine Überlastung Ihrer Maschine zu vermeiden, empfehlen wir, den beim Stanzen der Löcher entstehenden Stanzdruck nach folgender Formel zu überprüfen. Die max. Stanzkraft ist aus dem Leistungsschild an Ihrer Maschine ersichtlich.

Lochumfang x Materialstärke x Materialfestigkeit (Bis zu einer Materialfestigkeit von 600 N/mm² kann der Multiplikator 0,8 eingesetzt werden.)



Stempel - Punch - Poinçon **50505-1**

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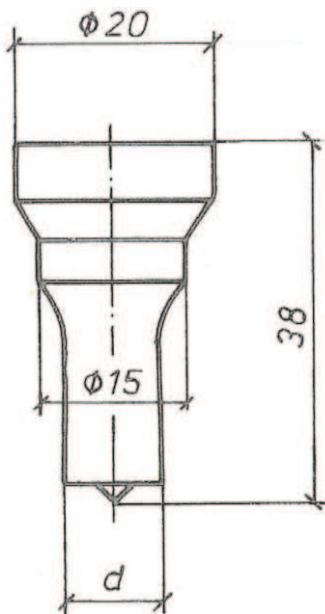
Form/Forme:



Nur einsetzbar in Verbindung mit der Reduzierung MBN 50531-3 und der Stempelbeilage MBN 50529 oder mit der Reduzierung MBN 50531-4 und der Stempelbeilage MBN 50529

Can only be used with reducer insert MBN 50531 and punch filter MBN 50529 or with reducer insert MBN 50531-4 and punch filter MBN 50529

Se montant uniquement avec la bague de réduction MBN 50531 et pièce intercalaire MBN 50529 ou avec la bague de réduction MBN 50531-4 et pièce intercalaire MBN 50529

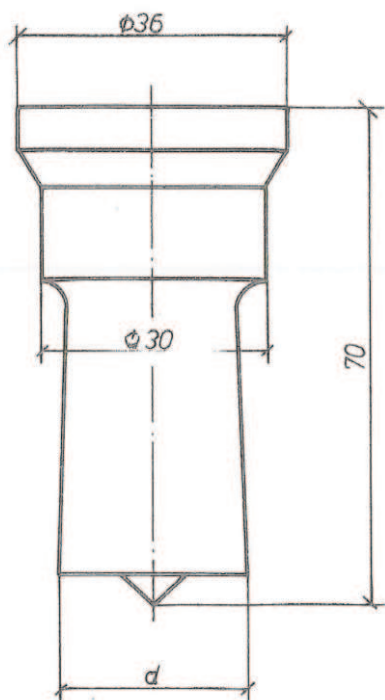


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6,0	5050511022
6,5	5050511024
7,0	5050511026
7,5	5050511028
8,0	5050511031
8,5	5050511033
9,0	5050511035
9,5	5050511037
10,0	5050511039
10,5	5050511042
11,0	5050511044
11,5	5050511046
12,0	5050511048
12,5	5050511051
13,0	5050511053
13,5	5050511055
14,0	5050511057
14,5	5050511059
15,0	5050511062

Stempel - Punch - Poinçon
50505-2

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Form/Forme:

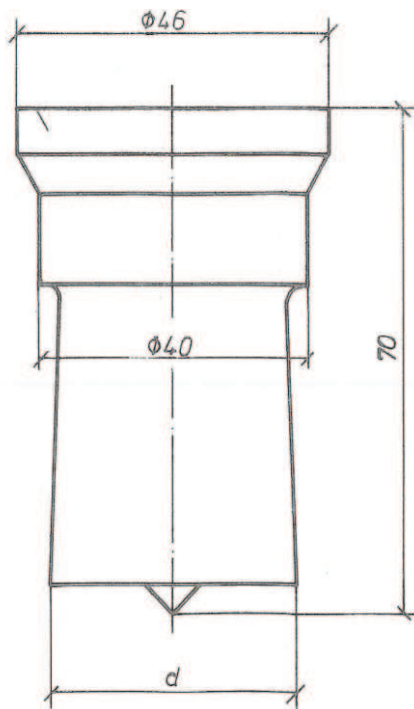


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18,5	5050521077
19,0	5050521079
19,5	5050521082
20,0	5050521084
20,5	5050521086
21,0	5050521088
21,5	5050521091
22,0	5050521093
22,5	5050521095
23,0	5050521097
23,5	5050523099
24,0	5050521102
24,5	5050521104
25,0	5050521106
25,5	5050521108
26,0	5050521111
26,5	5050521113
27,0	5050521115
27,5	5050521117
28,0	5050521119
28,5	5050521122
29,0	5050521124
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Stempel - Punch - Poinçon
50505-3

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Form/Forme:



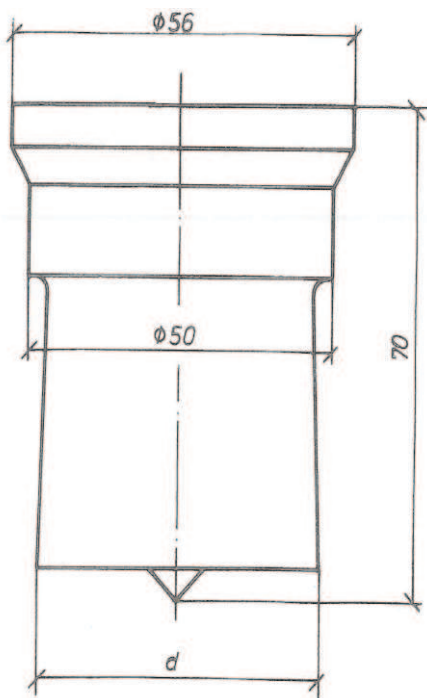
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33,0	5050531142
33,5	5050531144
34,0	5050531146
34,5	5050531148
35,0	5050531151
35,5	5050531153
36,0	5050531155
36,5	5050531157
37,0	5050531159
37,5	5050531162
38,0	5050531164
38,5	5050531166
39,0	5050531168
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Stempel - Punch - Poinçon
50505-4

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Form/Forme:



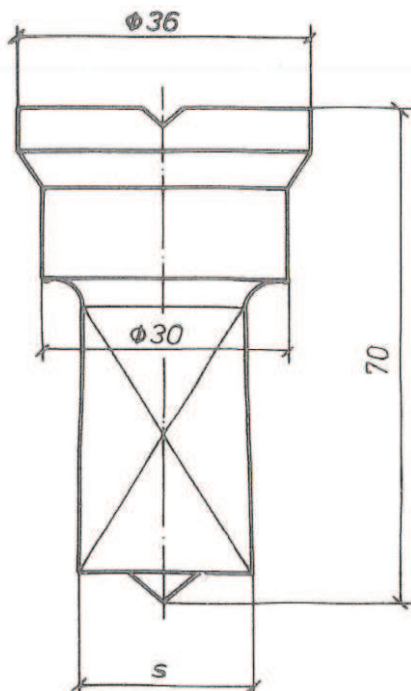
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43,0	5050541186
43,5	5050541188
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44,5	5050541193
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45,5	5050541197
46,0	5050541199
46,5	5050541202
47,0	5050541204
47,5	5050541206
48,0	5050541208
48,5	5050541211
49,0	5050541213
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Stempel - Punch - Poinçon
50505-2

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Form/Forme:



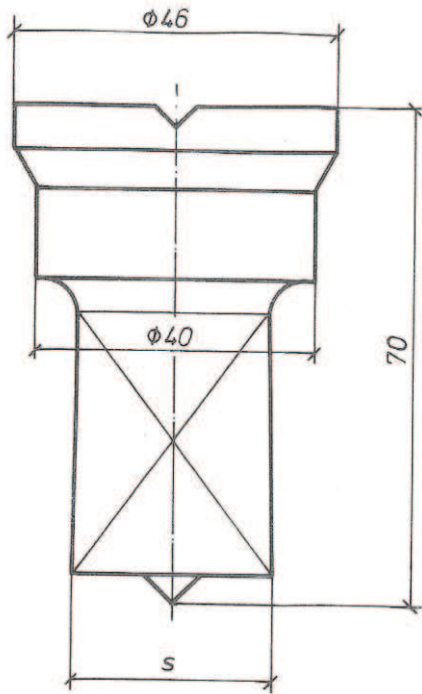
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9,0	5050522136
9,5	5050522138
10,0	5050522142
10,5	5050522144
11,0	5050522146
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12,0	5050522152
12,5	5050522154
13,0	5050522156
13,5	5050522158
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15,0	5050522166
15,5	5050522168
16,0	5050522172
16,5	5050522174
17,0	5050522176
17,5	5050522178
18,0	5050522182
18,5	5050522184
19,0	5050522186
19,5	5050522188
20,0	5050522192
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Stempel - Punch - Poinçon
50505-3

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Form/Forme:



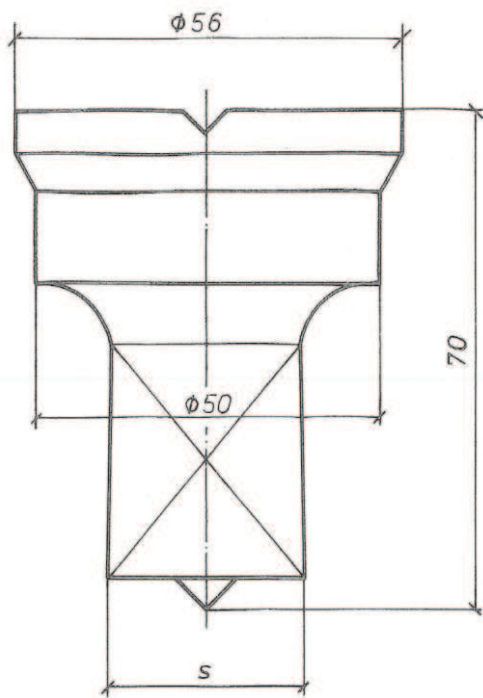
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24,5	5050532214
25,0	5050532216
25,5	5050532218
26,0	5050532222
26,5	5050532224
27,0	5050532226
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Stempel - Punch - Poinçon
50505-4

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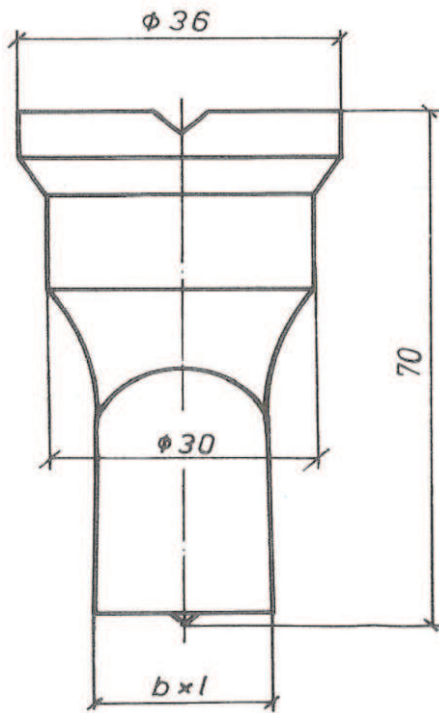
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31,5	5050542248
32,0	5050542252
32,5	5050542254
33,0	5050542256
33,5	5050542258
34,0	5050542262
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35,0	5050542266

Stempel - Punch - Poinçon
50505-2

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Form/Forme:

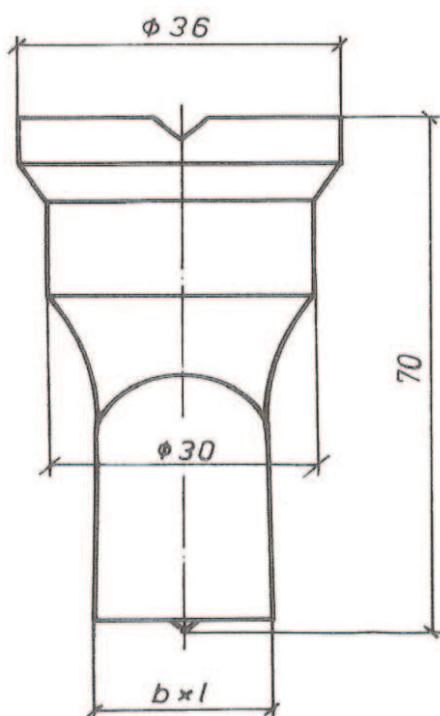


mm	Artikel-Nr.
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5,5 x 13	5050523020
5,5 x 15	5050523021
5,5 x 20	5050523022
5,5 x 25	5050523023
6,5 x 13	5050523037
6,5 x 15	5050523038
6,5 x 20	5050523039
6,5 x 25	5050523040
6,5 x 30	5050523041
7,0 x 15	5050523055
7,0 x 20	5050523056
7,0 x 25	5050523057
7,0 x 30	5050523058
8,0 x 13	5050523070
8,0 x 16	5050523071
8,0 x 20	5050523072
8,0 x 25	5050523073
8,0 x 30	5050523074
9,0 x 13	5050523088
9,0 x 18	5050523089
9,0 x 20	5050523090
9,0 x 25	5050523091
9,0 x 30	5050523092
9,5 x 13	5050523107
9,5 x 15	5050523108
9,5 x 20	5050523109
9,5 x 25	5050523110
9,5 x 30	5050523111
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10,5 x 21	5050523126
10,5 x 25	5050523127

Stempel - Punch - Poinçon 50505-2



Form/Forme:

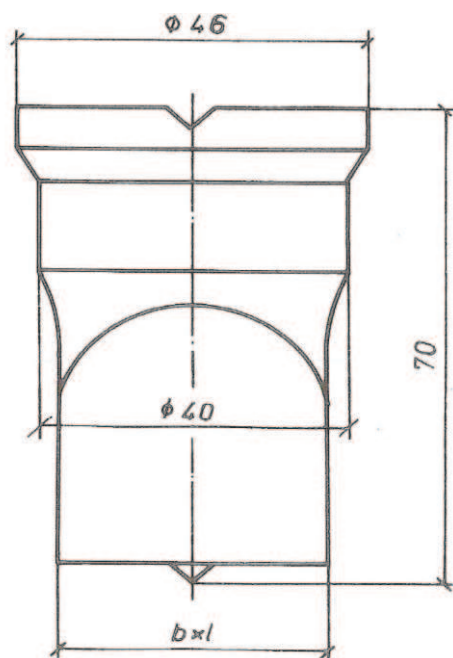


mm	Artikel-Nr.
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11,0 x 25	5050523142
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12,0 x 20	5050523167
12,0 x 25	5050523168
12,0 x 30	5050523169
13,0 x 20	5050523179
13,0 x 25	5050523180
13,0 x 30	5050523181
13,5 x 20	5050523191
13,5 x 25	5050523192
13,5 x 30	5050523193
14,0 x 20	5050523215
14,0 x 25	5050523216
14,0 x 30	5050523217
16,0 x 25	5050523233
16,0 x 30	5050523234
17,5 x 25	5050523248
17,5 x 30	5050523249
18,0 x 30	5050523255
19,0 x 25	5050523266
19,0 x 30	5050523267
20,5 x 25	5050523281
20,5 x 30	5050523282
22,0 x 30	5050523288
22,5 x 30	5050523301
24,0 x 30	5050523316
25,5 x 30	5050523328

Stempel - Punch - Poinçon
50505-3

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Form/Forme:



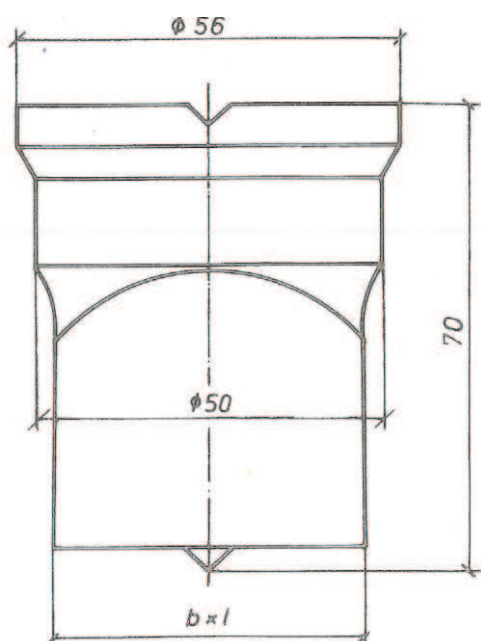
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14,0 x 40	5050533219
16,0 x 35	5050533235
16,0 x 40	5050533236
17,5 x 35	5050533250
17,5 x 40	5050533251
19,0 x 35	5050533268
19,0 x 40	5050533269
20,5 x 35	5050533283
20,5 x 40	5050533284
22,5 x 35	5050533302
22,5 x 40	5050533303
24,0 x 40	5050533317
25,5 x 40	5050533329
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27,0 x 40	5050533350

Stempel - Punch - Poinçon
50505-4

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Form/Forme:

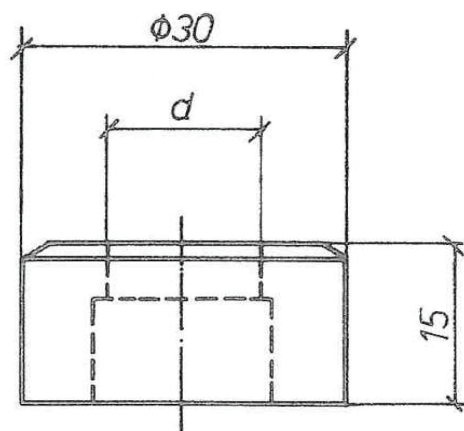


mm	Artikel-Nr.
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17,5 x 50	5050543252
20,5 x 50	5050543285
22,5 x 50	5050543304
24,0 x 50	5050543318
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26,0 x 50	5050543341
27,0 x 50	5050543350

Matrize - Die - Matrice 50633



Form/Forme:

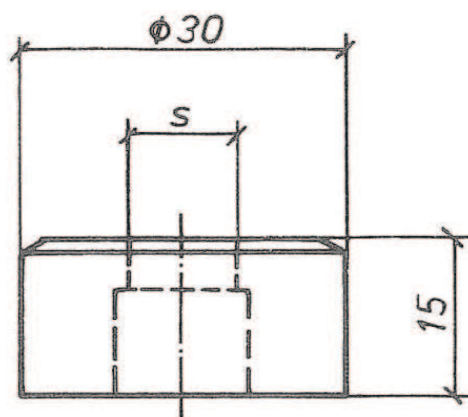


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6,2	5063301023
6,7	5063301025
7,2	5063301027
7,7	5063301029
8,2	5063301032
8,7	5063301034
9,2	5063301036
9,7	5063301038
10,2	5063301041
10,7	5063301043
11,2	5063301045
11,7	5063301047
12,2	5063301049
12,7	5063301052
13,2	5063301054
13,7	5063301056
14,2	5063301058
14,7	5063301061
15,2	5063301063
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16,2	5063301067

Matrize - Die - Matrice 50633



Form/Forme:



mm	Artikel-Nr.
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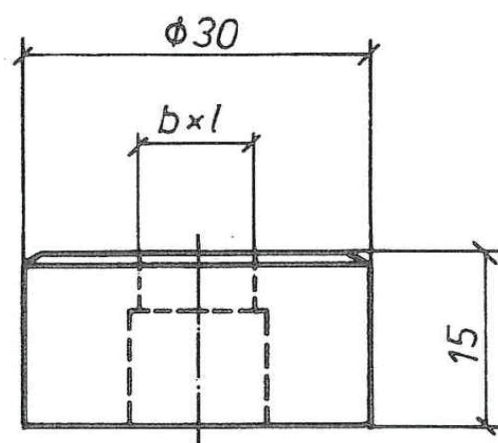
Matrize - Die - Matrize 50633



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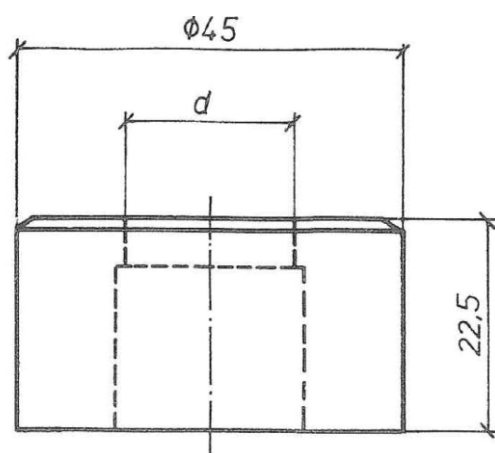


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5,8 x 13,3	5063303026
5,8 x 15,3	5063303027
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6,0 x 14,0	5063303014
6,0 x 16,0	5063303015
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6,5 x 14,0	5063303032
6,5 x 16,0	5063303033
6,8 x 13,3	5063303043
6,8 x 15,3	5063303044
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7,5 x 14,0	5063303049
7,5 x 16,0	5063303050
8,0 x 16,0	5063303071
8,3 x 13,3	5063303076
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9,3 x 13,3	5063303094
9,8 x 13,3	5063303113
9,8 x 15,3	5063303114
10,0 x 14,0	5063303101
10,5 x 14,0	5063303119
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10,8 x 15,3	5063303130
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Matrize - Die - Matrice
50638



Form/Forme:



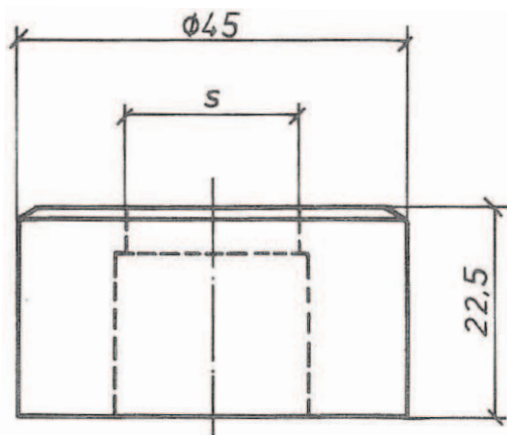
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30,2	5063801129
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Matrize - Die - Matrice
50638

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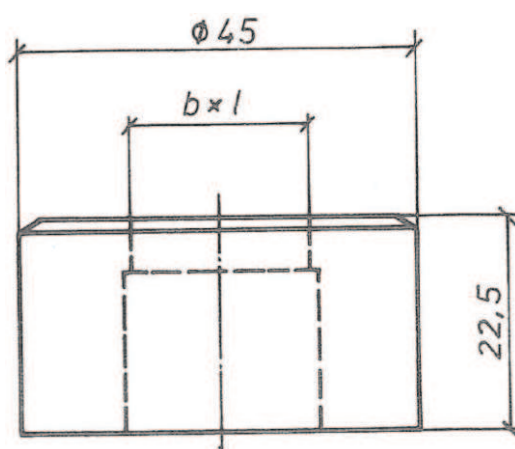
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15,2	5063802167
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16,7	5063802175
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17,7	5063802181
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20,7	5063802195
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Matrize - Die - Matrice
50638

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 Aftermarket Services



Form/Forme:



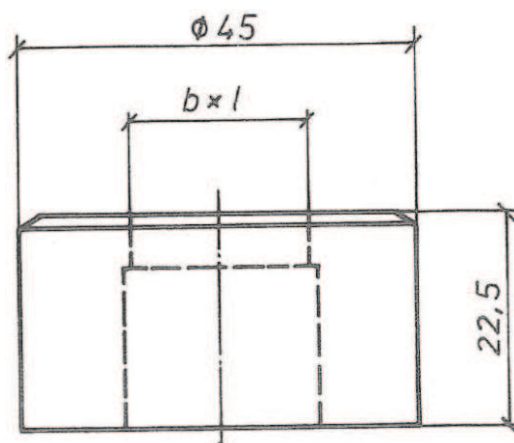
mm	Artikel-Nr.
5,3 x 20,3	5063803010
5,3 x 25,3	5063803011
6,0 x 21,0	5063803016
6,0 x 26,0	5063803017
5,8 x 20,3	5063803028
5,8 x 25,3	5063803029
6,5 x 21,0	5063803034
6,5 x 26,0	5063803035
6,8 x 20,3	5063803045
6,8 x 25,3	5063803046
6,8 x 30,3	5063803047
7,5 x 21,0	5063803051
7,5 x 26,0	5063803052
7,5 x 31,0	5063803053
7,3 x 20,3	5063803061
7,3 x 25,3	5063803062
7,3 x 30,3	5063803063
8,0 x 21,0	5063803066
8,0 x 26,0	5063803067
8,0 x 31,0	5063803068
8,3 x 16,3	5063803077
8,3 x 20,3	5063803078
8,3 x 25,3	5063803079
8,3 x 30,3	5063803080
9,0 x 17,0	5063803083
9,0 x 21,0	5063803084
9,0 x 26,0	5063803085
9,0 x 31,0	5063803086
9,3 x 18,3	5063803095
9,3 x 20,3	5063803096
9,3 x 25,3	5063803097
9,3 x 30,3	5063803098
10,0 x 19,0	5063803102
10,0 x 21,0	5063803103

Matrize - Die - Matrice
50638

Mubea
 Aftermarket Services



Form/Forme:



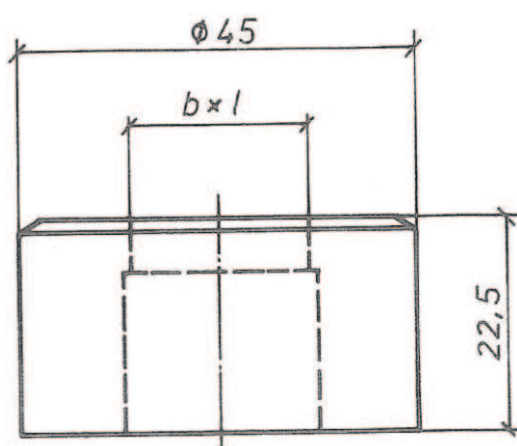
mm	Artikel-Nr.
10,0 x 26,0	5063803104
10,0 x 31,0	5063803105
9,8 x 20,3	5063803115
9,8 x 25,3	5063803116
9,8 x 30,3	5063803117
10,5 x 26,0	5063803122
10,5 x 31,0	5063803123
10,5 x 21,0	5063803126
10,8 x 21,3	5063803131
10,8 x 25,3	5063803132
10,8 x 30,3	5063803133
11,5 x 22,0	5063803136
11,5 x 26,0	5063803137
11,5 x 31,0	5063803138
11,3 x 20,3	5063803150
11,3 x 25,3	5063803151
11,3 x 30,3	5063803152
12,0 x 21,0	5063803159
12,0 x 26,0	5063803160
12,0 x 31,0	5063803161
12,3 x 20,3	5063803171
12,3 x 25,3	5063803172
12,3 x 30,3	5063803173
13,0 x 21,0	5063803175
13,0 x 26,0	5063803176
13,0 x 31,0	5063803177
13,3 x 20,3	5063803183
13,3 x 25,3	5063803184
13,3 x 30,3	5063803185
14,0 x 21,0	5063803187
14,0 x 26,0	5063803188
14,0 x 31,0	5063803189
13,8 x 20,3	5063803201
13,8 x 25,3	5063803202
13,8 x 30,3	5063803203

Matrize - Die - Matrice
50638

Mubea
 Aftermarket Services



Form/Forme:



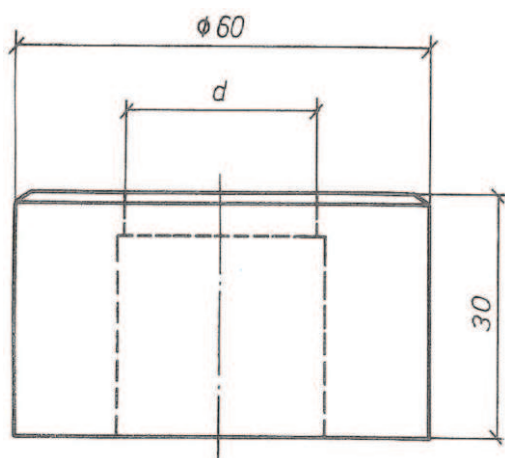
mm	Artikel-Nr.
14,5 x 21,0	5063803208
14,5 x 26,0	5063803209
14,5 x 31,0	5063803210
14,3 x 20,3	5063803221
14,3 x 25,3	5063803222
14,3 x 30,3	5063803223
15,0 x 21,0	5063803227
15,0 x 26,0	5063803228
15,0 x 31,0	5063803229
16,3 x 25,3	5063803238
16,3 x 30,3	5063803239
17,0 x 26,0	5063803243
17,0 x 31,0	5063803244
17,8 x 25,3	5063803254
17,8 x 30,3	5063803255
18,3 x 30,3	5063803258
18,5 x 26,0	5063803260
18,5 x 31,0	5063803261
19,0 x 31,0	5063803264
19,3 x 25,3	5063803271
19,3 x 30,3	5063803272
20,0 x 26,0	5063803276
20,0 x 31,0	5063803277
20,8 x 25,3	5063803287
20,8 x 30,3	5063803288
21,5 x 26,0	5063803293
21,5 x 31,0	5063803294
22,3 x 30,3	5063803295
22,8 x 30,3	5063803306
23,0 x 31,0	5063803308
23,5 x 31,0	5063803311
24,3 x 30,3	5063803320
25,0 x 31,0	5063803324
25,8 x 30,3	5063803332
26,5 x 31,0	5063803336

Matrize - Die - Matrice
50639

Mubea
 Aftermarket Services



Form/Forme:



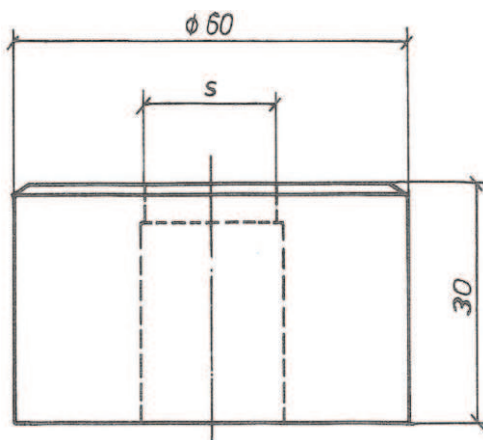
mm	Artikel-Nr.
30,7	5063901132
31,2	5063901134
31,7	5063901136
32,2	5063901138
32,7	5063901141
33,2	5063901143
33,7	5063901145
34,2	5063901147
34,7	5063901149
35,2	5063901152
35,7	5063901154
36,2	5063901156
36,7	5063901158
37,2	5063901161
37,7	5063901163
38,2	5063901165
38,7	5063901167
39,2	5063901169
39,7	5063901172
40,2	5063901174
40,7	5063901176
41,2	5063901178
41,7	5063901181
42,2	5063901183

Matrize - Die - Matrice
50639

Mubea
 Aftermarket Services



Form/Forme:



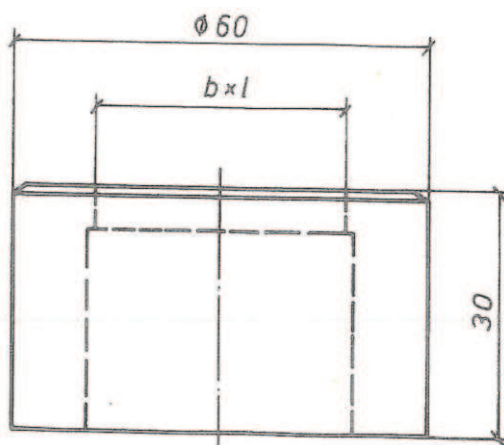
mm	Artikel-Nr.
21,7	5063902201
22,2	5063902203
22,7	5063902205
23,2	5063902207
23,7	5063902211
24,2	5063902213
24,7	5063902215
25,2	5063902217
25,7	5063902221
26,2	5063902223
26,7	5063902225
27,2	5063902227
27,7	5063902231
28,2	5063902233
28,7	5063902235
29,2	5063902237

Matrize - Die - Matrice
50639

Mubea
 Aftermarket Services



Form/Forme:



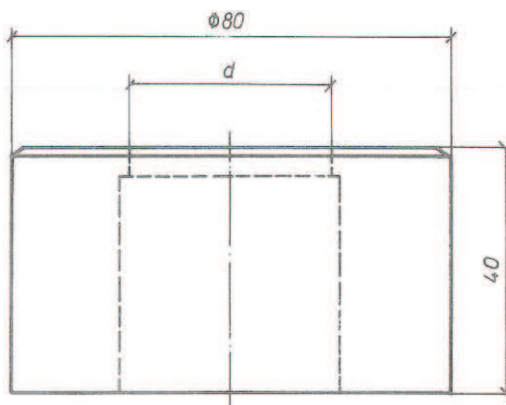
mm	Artikel-Nr.
11,3 x 35,3	5063903153
11,3 x 40,3	5063903154
12,0 x 36,0	5063903162
12,0 x 41,0	5063903163
13,8 x 35,3	5063903204
13,8 x 40,3	5063903205
14,5 x 36,0	5063903211
14,5 x 41,0	5063903212
14,3 x 35,3	5063903224
14,3 x 40,3	5063903225
15,0 x 36,0	5063903230
15,0 x 41,0	5063903231
16,3 x 35,3	5063903240
16,3 x 40,3	5063903241
17,0 x 36,0	5063903245
17,0 x 41,0	5063903246
17,8 x 35,3	5063903256
17,8 x 40,3	5063903257
18,5 x 36,0	5063903262
18,5 x 41,0	5063903263
19,3 x 35,3	5063903273
19,3 x 40,3	5063903274
20,0 x 36,0	5063903278
20,0 x 41,0	5063903279
20,8 x 35,3	5063903289
20,8 x 40,3	5063903290
21,5 x 36,0	5063903295
21,5 x 41,0	5063903296
22,8 x 35,3	5063903307
22,8 x 40,3	5063903308
23,5 x 36,0	5063903312
23,5 x 41,0	5063903313
24,3 x 40,3	5063903321
25,0 x 41,0	5063903325
25,8 x 40,3	5063903333
26,5 x 41,0	5063903337
26,3 x 40,3	5063903343
27,0 x 41,0	5063903346
27,3 x 40,3	5063903352
28,0 x 41,0	5063903355

Matrize - Die - Matrice
50640

Mubea
 Aftermarket Services



Form/Forme:



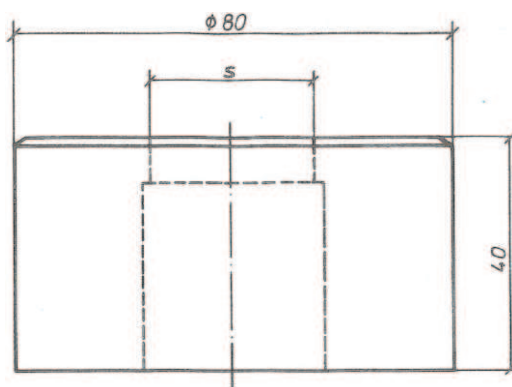
mm	Artikel-Nr.
40,7	5064001176
41,2	5064001178
41,7	5064001181
42,2	5064001183
42,7	5064001185
43,2	5064001187
43,7	5064001189
44,2	5064001192
44,7	5064001194
45,2	5064001196
45,7	5064001198
46,2	5064001201
46,7	5064001203
47,2	5064001205
47,7	5064001207
48,2	5064001209
48,7	5064001212
49,2	5064001214
49,7	5064001216
50,2	5064001218
50,7	5064001221
51,2	5064001223

Matrize - Die - Matrice
50640

Mubea
 Aftermarket Services



Form/Forme:



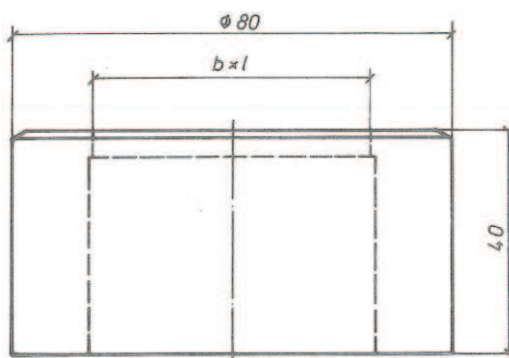
mm	Artikel-Nr.
28,7	5064002235
29,2	5064002237
29,7	5064002241
30,2	5064002243
30,7	5064002245
31,2	5064002247
31,7	5064002251
32,2	5064002253
32,7	5064002255
33,2	5064002257
33,7	5064002261
34,2	5064002263
34,7	5064002265
35,2	5064002267
35,7	5064002268

Matrize - Die - Matrice
50640

Mubea
 Aftermarket Services



Form/Forme:



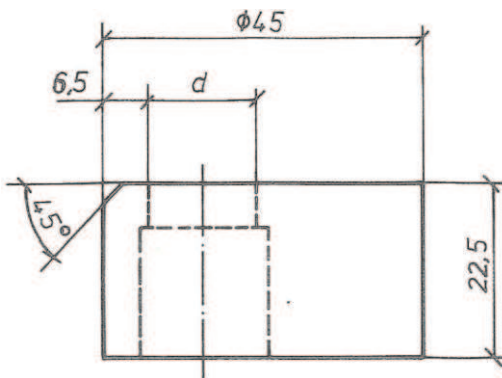
mm	Artikel-Nr.
11,3 x 45,3	5064003155
11,3 x 50,3	5064003156
12,0 x 46,0	5064003164
12,0 x 51,0	5064003165
13,8 x 50,3	5064003206
14,5 x 51,0	5064003213
17,8 x 50,3	5064003258
18,5 x 51,0	5064003264
20,8 x 50,3	5064003291
21,5 x 51,0	5064003297
22,8 x 50,3	5064003309
23,5 x 51,0	5064003314
24,3 x 50,3	5064003322
25,0 x 51,0	5064003326
25,8 x 50,3	5064003334
26,5 x 51,0	5064003338
26,3 x 50,3	5064003344
27,0 x 51,0	5064003347
27,3 x 50,3	5064003353
28,0 x 51,0	5064003356

Matrize - Die - Matrice
50653-1

Mubea
 Aftermarket Services



Form/Forme:



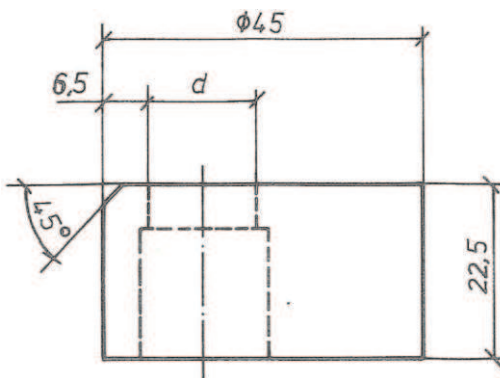
mm	Artikel-Nr.
3,2	5065311009
3,7	5065311012
4,2	5065311014
4,7	5065311016
5,2	5065311018
5,7	5065311021
6,2	5065311023
6,7	5065311025
7,2	5065311027
7,7	5065311029
8,2	5065311032
8,7	5065311034
9,2	5065311036
9,7	5065311038
10,2	5065311041
10,7	5065311043
11,2	5065311045
11,7	5065311047
12,2	5065311049
12,7	5065311052
13,2	5065311054
13,7	5065311056
14,2	5065311058
14,7	5065311061
15,2	5065311063
15,7	5065311065
16,2	5065311067

Matrize - Die - Matrice
50653-1

Mubea
 Aftermarket Services



Form/Forme:



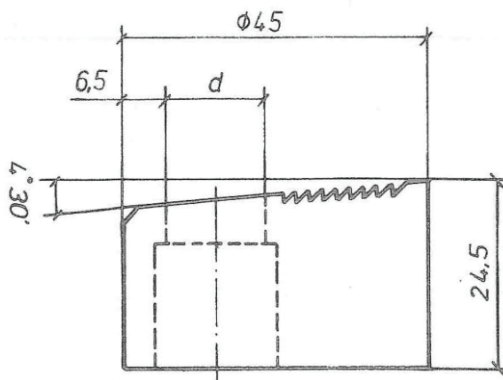
mm	Artikel-Nr.
16,7	5065311069
17,2	5065311072
17,7	5065311074
18,2	5065311076
18,7	5065311078
19,2	5065311081
19,7	5065311083
20,2	5065311085
20,7	5065311087
21,2	5065311089
21,7	5065311092
22,2	5065311094
22,7	5065311096
23,2	5065311098
23,7	5065311101
24,2	5065311103
24,7	5065311105
25,2	5065311107
25,7	5065311109
26,2	5065311112
26,7	5065311114
27,2	5065311116
27,7	5065311118
28,2	5065311121
28,7	5065311123
29,2	5065311125
29,7	5065311127

Matrize - Die - Matrice
50653-2

Mubea
 Aftermarket Services



Form/Forme:



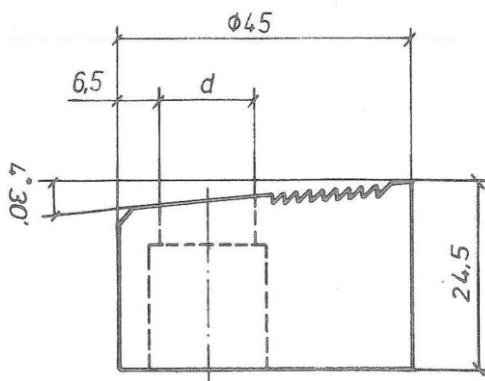
mm	Artikel-Nr.
7,2	5065321027
7,7	5065321029
8,2	5065321032
8,7	5065321034
9,2	5065321036
9,7	5065321038
10,2	5065321041
10,7	5065321043
11,2	5065321045
11,7	5065321047
12,2	5065321049
12,7	5065321052
13,2	5065321054
13,7	5065321056
14,2	5065321058
14,7	5065321061
15,2	5065321063
15,7	5065321065
16,2	5065321067
16,7	5065321069
17,2	5065321072
17,7	5065321074
18,2	5065321076

Matrize - Die - Matrice
50653-2

Mubea
 Aftermarket Services



Form/Forme:



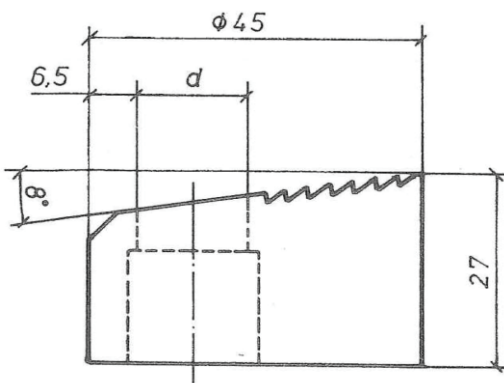
mm	Artikel-Nr.
18,7	5065321078
19,2	5065321081
19,7	5065321083
20,2	5065321085
20,7	5065321087
21,2	5065321089
21,7	5065321092
22,2	5065321094
22,7	5065321096
23,2	5065321098
23,7	5065321101
24,2	5065321103
24,7	5065321105
25,2	5065321107
25,7	5065321109
26,2	5065321112
26,7	5065321114
27,2	5065321116
27,7	5065321118
28,2	5065321121
28,7	5065321123
29,2	5065321125
29,7	5065321127

Matrize - Die - Matrice
50653-3

Mubea
 Aftermarket Services



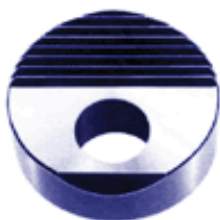
Form/Forme:



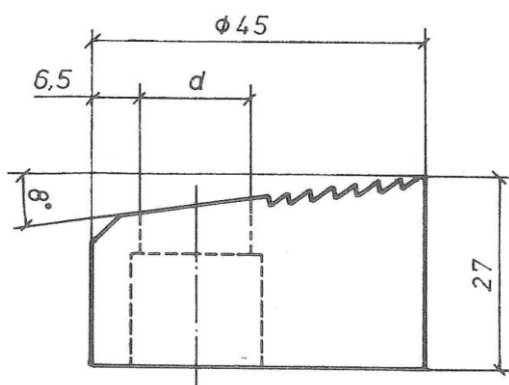
mm	Artikel-Nr.
6,2	5065331023
6,7	5065331025
7,2	5065331027
7,7	5065331029
8,2	5065331032
8,7	5065331034
9,2	5065331036
9,7	5065331038
10,2	5065331041
10,7	5065331043
11,2	5065331045
11,7	5065331047
12,2	5065331049
12,7	5065331052
13,2	5065331054
13,7	5065331056
14,2	5065331058
14,7	5065331061
15,2	5065331063
15,7	5065331065
16,2	5065331067
16,7	5065331069
17,2	5065331072
17,7	5065331074

Matrize - Die - Matrice
50653-3

Mubea
 Aftermarket Services



Form/Forme:



mm	Artikel-Nr.
18,2	5065331076
18,7	5065331078
19,2	5065331081
19,7	5065331083
20,2	5065331085
20,7	5065331087
21,2	5065331089
21,7	5065331092
22,2	5065331094
22,7	5065331096
23,2	5065331098
23,7	5065331101
24,2	5065331103
24,7	5065331105
25,2	5065331107
25,7	5065331109
26,2	5065331112
26,7	5065331114
27,2	5065331116
27,7	5065331118
28,2	5065331121
28,7	5065331123
29,2	5065331125
29,7	5065331127

Matrize - Die - Matrice
50679-1

Mubea
 Aftermarket Services

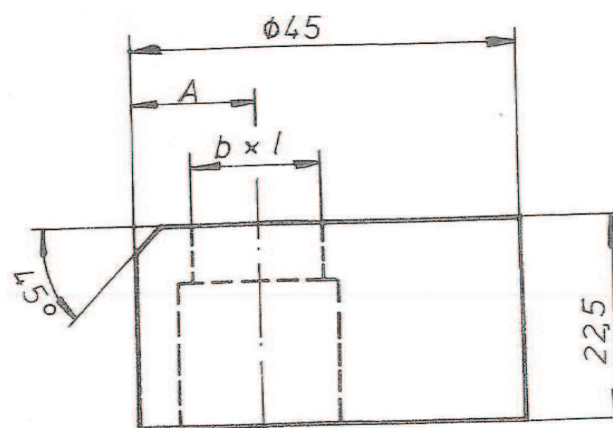


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
5,3 x 10,3	9,5	5067913007
5,3 x 13,3	9,5	5067913008
5,3 x 15,3	10,5	5067913009
5,3 x 20,3	11,5	5067913010
5,3 x 25,3	13,5	5067913011
5,8 x 11,3	10,0	5067913025
5,8 x 13,3	10,0	5067913026
5,8 x 15,3	10,0	5067913027
5,8 x 20,3	12,0	5067913028
5,8 x 25,3	14,0	5067913029
6,0 x 11,0	10,0	5067913013
6,0 x 14,0	10,5	5067913014
6,0 x 16,0	10,5	5067913015
6,0 x 21,0	11,0	5067913016
6,0 x 26,0	14,5	5067913017
6,5 x 12,0	10,5	5067913031
6,5 x 14,0	10,5	5067913032
6,5 x 16,0	11,0	5067913033
6,5 x 21,0	12,5	5067913034
6,5 x 26,0	15,0	5067913035
6,8 x 13,3	10,5	5067913043



Matrize - Die - Matrice
50679-1

Mubea
 Aftermarket Services

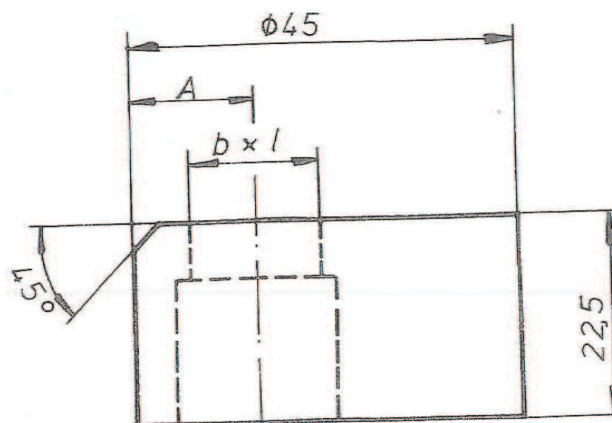


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
6,8 x 15,3	11,0	5067913044
6,8 x 20,3	12,0	5067913045
6,8 x 25,3	14,0	5067913046
6,8 x 30,3	18,0	5067913047
7,3 x 15,3	11,0	5067913060
7,3 x 20,3	12,0	5067913061
7,3 x 25,3	14,5	5067913062
7,3 x 30,3	18,0	5067913063
7,5 x 14,0	11,0	5067913049
7,5 x 16,0	11,5	5067913050
7,5 x 21,0	12,5	5067913051
7,5 x 26,0	14,5	5067913052
7,5 x 31,0	19,0	5067913053
8,0 x 16,0	11,5	5067913071
8,0 x 21,0	12,5	5067913066
8,0 x 26,0	15,0	5067913067
8,0 x 31,0	19,5	5067913068
8,3 x 13,3	11,0	5067913076
8,3 x 16,3	11,5	5067913077
8,3 x 20,3	12,5	5067913078



Matrize - Die - Matrice
50679-1

Mubea
 Aftermarket Services

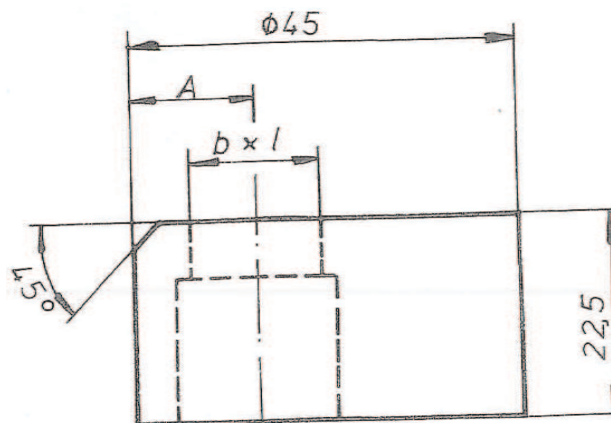


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
8,3 x 25,3	14,5	5067913079
8,3 x 30,3	18,5	5067913080
9,0 x 14,0	11,5	5067913082
9,0 x 17,0	12,0	5067913083
9,0 x 21,0	13,0	5067913084
9,0 x 26,0	15,0	5067913085
9,0 x 31,0	19,5	5067913086
9,3 x 13,3	11,5	5067913094
9,3 x 18,3	12,5	5067913095
9,3 x 20,3	13,0	5067913096
9,3 x 25,3	14,5	5067913097
9,3 x 30,3	18,5	5067913098
9,8 x 13,3	12,0	5067913113
9,8 x 15,3	12,0	5067913114
9,8 x 20,3	13,0	5067913115
9,8 x 25,3	15,0	5067913116
9,8 x 30,3	18,5	5067913117
10,0 x 14,0	12,0	5067913101
10,0 x 19,0	12,5	5067913102
10,0 x 21,0	13,0	5067913103



Matrize - Die - Matrice
50679-1

Mubea
 Aftermarket Services

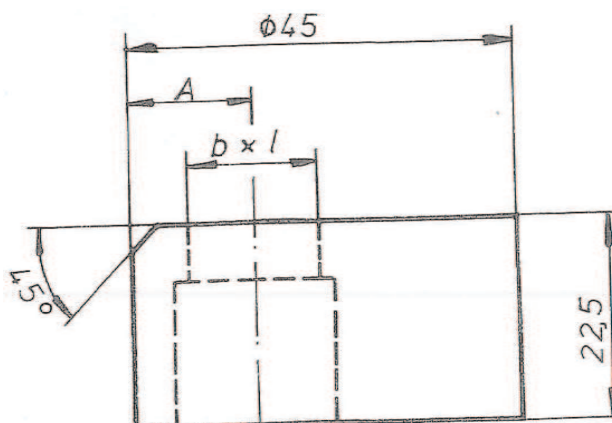


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
10,0 x 26,0	15,0	5067913104
10,0 x 31,0	19,5	5067913105
10,5 x 14,0	12,0	5067913119
10,5 x 16,0	12,5	5067913120
10,5 x 21,0	13,5	5067913126
10,5 x 26,0	15,5	5067913122
10,5 x 31,0	19,5	5067913123
10,8 x 15,3	12,5	5067913130
10,8 x 21,3	13,5	5067913131
10,8 x 25,3	15,0	5067913132
10,8 x 30,3	18,5	5067913133
11,3 x 15,3	12,5	5067913149
11,3 x 20,3	13,5	5067913150
11,3 x 25,3	15,0	5067913151
11,3 x 30,3	18,5	5067913152
11,5 x 16,0	12,5	5067913135
11,5 x 22,0	14,0	5067913136
11,5 x 26,0	15,5	5067913137
11,5 x 31,0	19,5	5067913138
12,0 x 16,0	13,0	5067913158
12,0 x 21,0	14,0	5067913159



Matrize - Die - Matrice
50679-1

Mubea
 Aftermarket Services

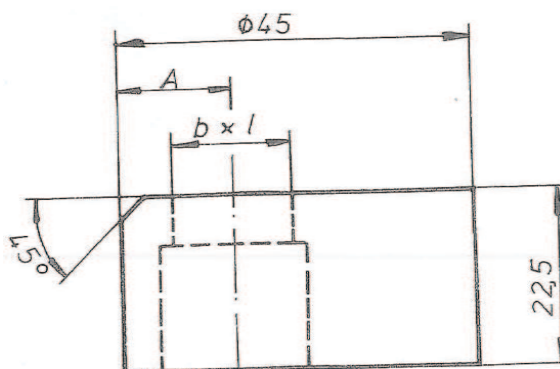


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
12,0 x 26,0	15,5	5067913160
12,0 x 31,0	19,5	5067913161
12,3 x 20,3	13,5	5067913171
12,3 x 25,3	15,5	5067913172
12,3 x 30,3	18,5	5067913173
13,0 x 21,0	14,0	5067913175
13,0 x 26,0	16,0	5067913176
13,0 x 31,0	19,0	5067913177
13,3 x 20,3	14,0	5067913183
13,3 x 25,3	15,5	5067913184
13,3 x 30,3	19,0	5067913185
13,8 x 20,3	14,0	5067913201
13,8 x 25,3	16,0	5067913202
13,8 x 30,3	19,0	5067913203
14,0 x 21,0	14,5	5067913187
14,0 x 26,0	16,0	5067913188
14,0 x 31,0	20,0	5067913189
14,3 x 20,3	14,5	5067913221
14,3 x 25,3	16,0	5067913222
14,3 x 30,3	19,0	5067913223
14,5 x 21,0	14,5	5067913208
14,5 x 26,0	16,0	5067913209
14,5 x 31,0	20,0	5067913210
15,0 x 21,0	15,0	5067913227
15,0 x 26,0	16,5	5067913228
15,0 x 31,0	20,0	5067913229
16,3 x 25,3	16,5	5067913238



Matrize - Die - Matrice
50679-1

Mubea
 Aftermarket Services

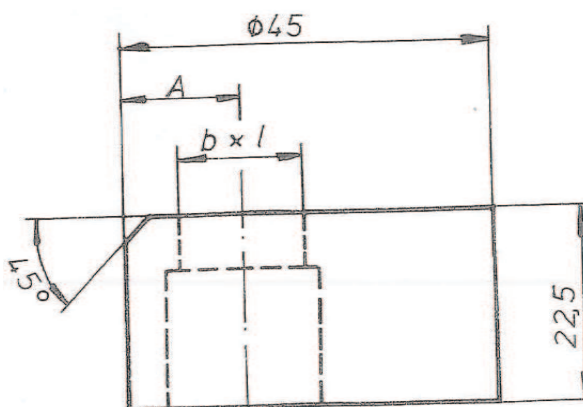


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
16,3 x 30,3	19,0	5067913239
17,0 x 26,0	16,5	5067913243
17,0 x 31,0	20,0	5067913244
17,8 x 25,3	17,0	5067913254
17,8 x 30,3	20,0	5067913255
18,3 x 30,3	20,0	5067913258
18,5 x 26,0	17,0	5067913260
18,5 x 31,0	20,0	5067913261
19,0 x 31,0	20,0	5067913264
19,3 x 25,3	17,0	5067913271
19,3 x 30,3	20,0	5067913272
20,0 x 26,0	17,5	5067913276
20,0 x 31,0	20,5	5067913277
20,8 x 25,3	17,5	5067913287
20,8 x 30,3	20,0	5067913288
21,5 x 26,0	18,0	5067913293
21,5 x 31,0	20,5	5067913294
22,3 x 30,3	20,0	5067913295
22,8 x 30,3	20,0	5067913306
23,0 x 31,0	20,5	5067913308
23,5 x 31,0	20,5	5067913311
24,3 x 30,3	20,5	5067913320
25,0 x 31,0	21,0	5067913324
25,8 x 30,3	20,5	5067913332
26,5 x 31,0	21,0	5067913336



Matrize - Die - Matrice
50679-2

Mubea
 Aftermarket Services

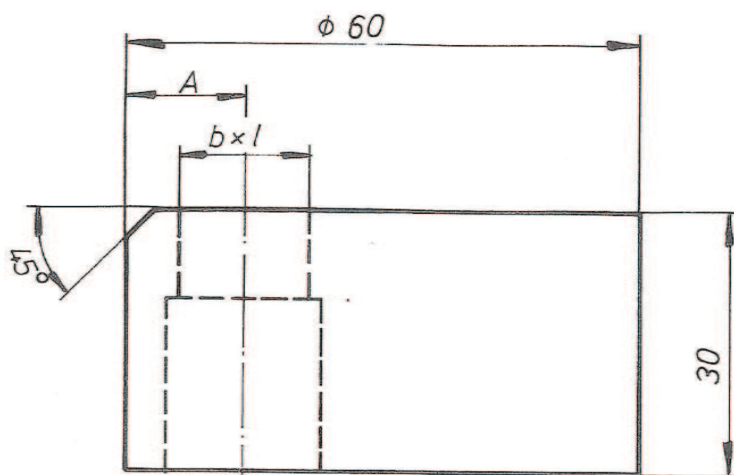


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
11,3 x 35,3	20,0	5067923153
11,3 x 40,3	24,0	5067923154
12,0 x 36,0	20,5	5067923162
12,0 x 41,0	25,0	5067923163
13,8 x 35,3	20,5	5067923204
13,8 x 40,3	24,0	5067923205
14,3 x 35,3	20,5	5067923224
14,3 x 40,3	24,0	5067923225
14,5 x 36,0	21,0	5067923211
14,5 x 41,0	25,0	5067923212
15,0 x 36,0	21,0	5067923230
15,0 x 41,0	25,0	5067923231
16,3 x 35,3	21,0	5067923240
16,3 x 40,3	24,5	5067923241
17,0 x 36,0	21,5	5067923245
17,0 x 41,0	25,5	5067923246
17,8 x 35,3	21,5	5067923256
17,8 x 40,3	25,0	5067923257
18,5 x 36,0	21,5	5067923262
18,5 x 41,0	25,5	5067923263



Matrize - Die - Matrice
50679-2

Mubea
 Aftermarket Services

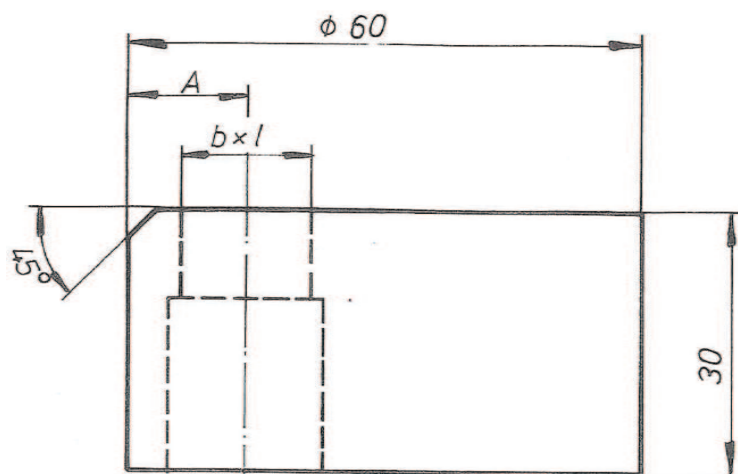


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
19,3 x 35,3	21,5	5067923273
19,3 x 40,3	25,0	5067923274
20,0 x 36,0	22,0	5067923278
20,0 x 41,0	25,5	5067923279
20,8 x 35,3	22,0	5067923289
20,8 x 40,3	25,0	5067923290
21,5 x 36,0	22,5	5067923295
21,5 x 41,0	26,0	5067923296
22,8 x 35,3	22,5	5067923307
22,8 x 40,3	25,5	5067923308
23,5 x 36,0	28,0	5067923312
23,5 x 41,0	26,0	5067923313
24,3 x 40,3	26,0	5067923321
25,0 x 41,0	26,0	5067923325
25,8 x 40,3	26,0	5067923333
26,3 x 40,3	26,5	5067923343
26,5 x 41,0	26,5	5067923337
27,0 x 41,0	27,0	5067923346
27,3 x 40,3	27,0	5067923352
28,0 x 41,0	27,5	5067923355



Matrize - Die - Matrice
50680-1

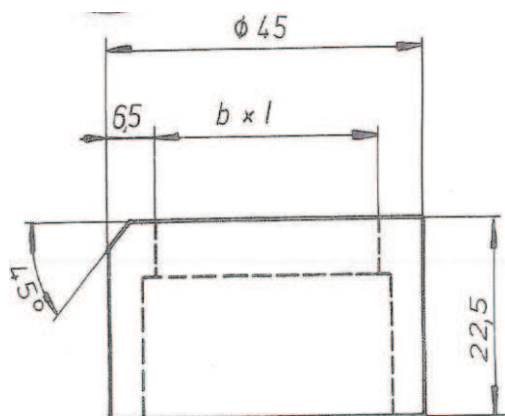
Mubea
 Aftermarket Services



Form/Forme:



Lang zur Maschine
 In line to the machine
 Parallèle à l'axe de la machine



mm	Artikel-Nr.
5,3 x 10,3	5068013007
5,3 x 13,3	5068013008
5,3 x 15,3	5068013009
5,3 x 20,3	5068013010
5,3 x 25,3	5068013011
6,0 x 11,0	5068013013
6,0 x 14,0	5068013014
6,0 x 16,0	5068013015
6,0 x 21,0	5068013016
6,0 x 26,0	5068013017
5,8 x 11,3	5068013025
5,8 x 13,3	5068013026
5,8 x 15,3	5068013027
5,8 x 20,3	5068013028
5,8 x 25,3	5068013029
6,5 x 12,0	5068013031
6,5 x 14,0	5068013032
6,5 x 16,0	5068013033
6,5 x 21,0	5068013034
6,5 x 26,0	5068013035
6,8 x 13,3	5068013043
6,8 x 15,3	5068013044
6,8 x 20,3	5068013045
6,8 x 25,3	5068013046
6,8 x 30,3	5068013047
7,5 x 14,0	5068013049
7,5 x 16,0	5068013050
7,5 x 21,0	5068013051
7,5 x 26,0	5068013052
7,5 x 31,0	5068013053
7,3 x 15,3	5068013060
7,3 x 20,3	5068013061
7,3 x 25,3	5068013062

Matrize - Die - Matrice
50680-1

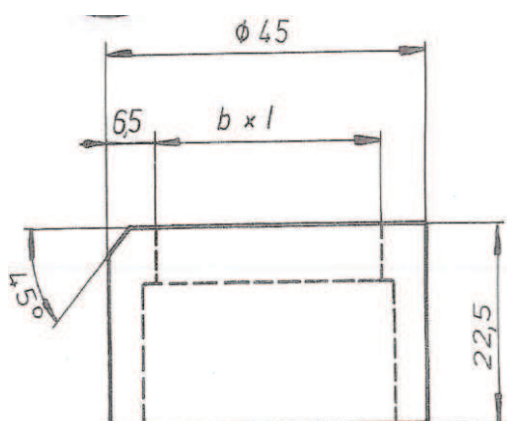
Mubea
 Aftermarket Services



Form/Forme:



Lang zur Maschine
 In line to the machine
 Parallèle à l'axe de la machine



mm	Artikel-Nr.
7,3 x 30,3	5068013063
8,0 x 21,0	5068013066
8,0 x 26,0	5068013067
8,0 x 31,0	5068013068
8,0 x 16,0	5068013071
8,3 x 13,3	5068013076
8,3 x 16,3	5068013077
8,3 x 20,3	5068013078
8,3 x 25,3	5068013079
8,3 x 30,3	5068013080
9,0 x 14,0	5068013082
9,0 x 17,0	5068013083
9,0 x 21,0	5068013084
9,0 x 26,0	5068013085
9,0 x 31,0	5068013086
9,3 x 13,3	5068013094
9,3 x 18,3	5068013095
9,3 x 20,3	5068013096
9,3 x 25,3	5068013097
9,3 x 30,3	5068013098
10,0 x 14,0	5068013101
10,0 x 19,0	5068013102
10,0 x 21,0	5068013103
10,0 x 26,0	5068013104
10,0 x 31,0	5068013105
9,8 x 13,3	5068013113
9,8 x 15,3	5068013114
9,8 x 20,3	5068013115
9,8 x 25,3	5068013116
9,8 x 30,3	5068013117
10,5 x 14,0	5068013119
10,5 x 16,0	5068013120
10,5 x 26,0	5068013122

Matrize - Die - Matrice
50680-1

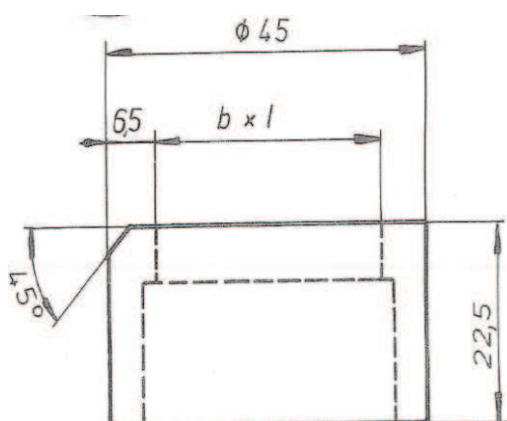
Mubea
 Aftermarket Services



Form/Forme:



Lang zur Maschine
 In line to the machine
 Parallèle à l'axe de la machine



mm	Artikel-Nr.
10,5 x 31,0	5068013123
10,5 x 21,0	5068013126
10,8 x 15,3	5068013130
10,8 x 21,3	5068013131
10,8 x 25,3	5068013132
10,8 x 30,3	5068013133
11,5 x 16,0	5068013135
11,5 x 22,0	5068013136
11,5 x 26,0	5068013137
11,5 x 31,0	5068013138
11,3 x 15,3	5068013149
11,3 x 20,3	5068013150
11,3 x 25,3	5068013151
11,3 x 30,3	5068013152
12,0 x 16,0	5068013158
12,0 x 21,0	5068013159
12,0 x 26,0	5068013160
12,0 x 31,0	5068013161
12,3 x 20,3	5068013171
12,3 x 25,3	5068013172
12,3 x 30,3	5068013173
13,0 x 21,0	5068013175
13,0 x 26,0	5068013176
13,0 x 31,0	5068013177
13,3 x 20,3	5068013183
13,3 x 25,3	5068013184
13,3 x 30,3	5068013185
14,0 x 21,0	5068013187
14,0 x 26,0	5068013188
14,0 x 31,0	5068013189
13,8 x 20,3	5068013201
13,8 x 25,3	5068013202
13,8 x 30,3	5068013203

Matrize - Die - Matrice
50680-1

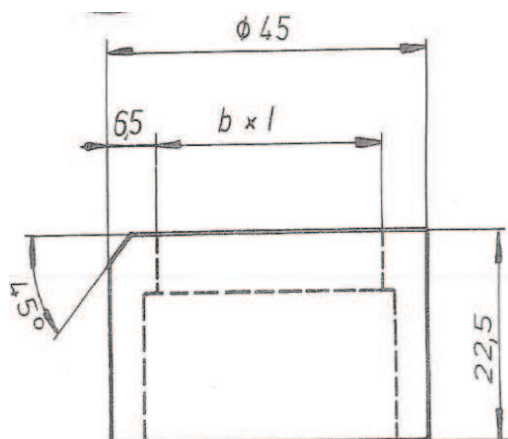
Mubea
 Aftermarket Services



Form/Forme:



Lang zur Maschine
 In line to the machine
 Parallèle à l'axe de la machine



mm	Artikel-Nr.
14,5 x 21,0	5068013208
14,5 x 26,0	5068013209
14,5 x 31,0	5068013210
14,3 x 20,3	5068013221
14,3 x 25,3	5068013222
14,3 x 30,3	5068013223
15,0 x 21,0	5068013227
15,0 x 26,0	5068013228
15,0 x 31,0	5068013229
16,3 x 25,3	5068013238
16,3 x 30,3	5068013239
17,0 x 26,0	5068013243
17,0 x 31,0	5068013244
17,8 x 25,3	5068013254
17,8 x 30,3	5068013255
18,3 x 30,3	5068013258
18,5 x 26,0	5068013260
18,5 x 31,0	5068013261
19,0 x 31,0	5068013264
19,3 x 25,3	5068013271
19,3 x 30,3	5068013272
20,0 x 26,0	5068013276
20,0 x 31,0	5068013277
20,8 x 25,3	5068013287
20,8 x 30,3	5068013288
21,5 x 26,0	5068013293
21,5 x 31,0	5068013294
22,3 x 30,3	5068013295
22,8 x 30,3	5068013306
23,0 x 31,0	5068013308
23,5 x 31,0	5068013311
24,3 x 30,3	5068013320
25,0 x 31,0	5068013324
25,8 x 30,3	5068013332
26,5 x 31,0	5068013336

Matrize - Die - Matrice
50680-2

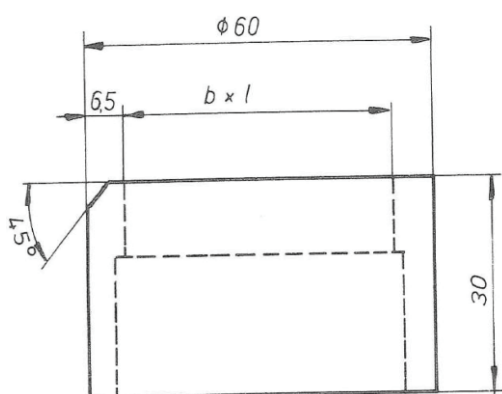
Mubea
 Aftermarket Services



Form/Forme:



Lang zur Maschine
 In line to the machine
 Parallèle à l'axe de la machine



mm	Artikel-Nr.
11,3 x 35,3	5068023153
11,3 x 40,3	5068023154
12,0 x 36,0	5068023162
12,0 x 41,0	5068023163
13,8 x 35,3	5068023204
13,8 x 40,3	5068023205
14,5 x 36,0	5068023211
14,5 x 41,0	5068023212
14,3 x 35,3	5068023224
14,3 x 40,3	5068023225
15,0 x 36,0	5068023230
15,0 x 41,0	5068023231
16,3 x 35,3	5068023240
16,3 x 40,3	5068023241
17,0 x 36,0	5068023245
17,0 x 41,0	5068023246
17,8 x 35,3	5068023256
17,8 x 40,3	5068023257
18,5 x 36,0	5068023262
18,5 x 41,0	5068023263
19,3 x 35,3	5068023273
19,3 x 40,3	5068023274
20,0 x 36,0	5068023278
20,0 x 41,0	5068023279
20,8 x 35,3	5068023289
20,8 x 40,3	5068023290
21,5 x 36,0	5068023295
21,5 x 41,0	5068023296
22,8 x 35,3	5068023307
22,8 x 40,3	5068023308
23,5 x 36,0	5068023312
23,5 x 41,0	5068023313
24,3 x 40,3	5068023321
25,0 x 41,0	5068023325
25,8 x 40,3	5068023333
26,5 x 41,0	5068023337
26,3 x 40,3	5068023343
27,0 x 41,0	5068023346
27,3 x 40,3	5068023352
28,0 x 41,0	5068023355

Matrize - Die - Matrice
50681-1

Mubea
 Aftermarket Services

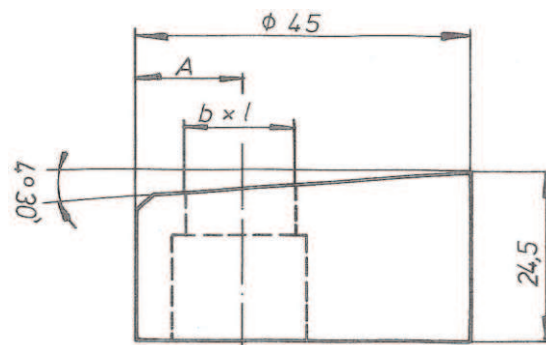


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
8,0 x 16,0	11,5	5068113071
8,0 x 21,0	12,5	5068113066
8,0 x 26,0	15,0	5068113067
8,0 x 31,0	19,5	5068113068
9,0 x 14,0	11,5	5068113082
9,0 x 17,0	12,0	5068113083
9,0 x 21,0	13,0	5068113084
9,0 x 26,0	15,0	5068113085
9,0 x 31,0	19,5	5068113086
10,0 x 14,0	12,0	5068113101
10,0 x 19,0	12,5	5068113102
10,0 x 21,0	13,0	5068113103
10,0 x 26,0	15,0	5068113104
10,0 x 31,0	19,5	5068113105
10,5 x 14,0	12,0	5068113119
10,5 x 16,0	12,5	5068113120
10,5 x 21,0	13,5	5068113126
10,5 x 26,0	15,5	5068113122
10,5 x 31,0	19,5	5068113123
11,5 x 16,0	12,5	5068113135
11,5 x 22,0	14,0	5068113136
11,5 x 26,0	15,5	5068113137
11,5 x 31,0	19,5	5068113138
12,0 x 16,0	13,0	5068113158
12,0 x 21,0	14,0	5068113159
12,0 x 26,0	15,5	5068113160



Matrize - Die - Matrice
50681-1

Mubea
 Aftermarket Services

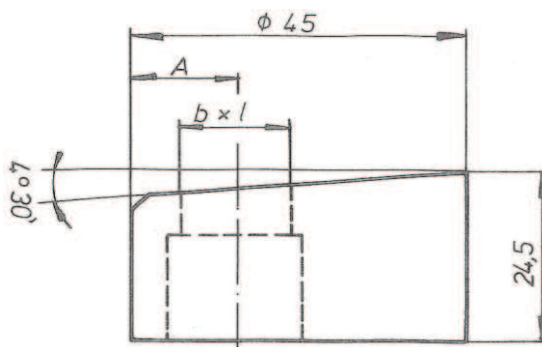


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
12,0 x 31,0	19,5	5068113161
13,0 x 21,0	14,0	5068113175
13,0 x 26,0	16,0	5068113176
13,0 x 31,0	19,0	5068113177
14,0 x 21,0	14,5	5068113187
14,0 x 26,0	16,0	5068113188
14,0 x 31,0	20,0	5068113189
14,5 x 21,0	14,5	5068113208
14,5 x 26,0	16,0	5068113209
14,5 x 31,0	20,0	5068113210
15,0 x 21,0	15,0	5068113227
15,0 x 26,0	16,5	5068113228
15,0 x 31,0	20,0	5068113229
17,0 x 26,0	16,5	5068113243
17,0 x 31,0	20,0	5068113244
18,5 x 26,0	17,0	5068113260
18,5 x 31,0	20,0	5068113261
19,0 x 31,0	20,0	5068113264
20,0 x 26,0	17,5	5068113276
20,0 x 31,0	20,5	5068113277
21,5 x 26,0	18,0	5068113293
21,5 x 31,0	20,5	5068113294
23,0 x 31,0	20,5	5068113308
23,5 x 31,0	20,5	5068113311
25,0 x 31,0	21,0	5068113324
26,5 x 31,0	21,0	5068113336



Matrize - Die - Matrice
50681-2

Mubea
 Aftermarket Services

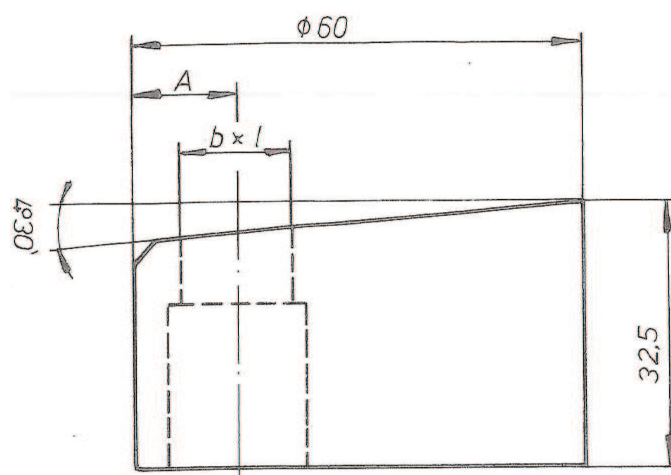


Form/Forme:



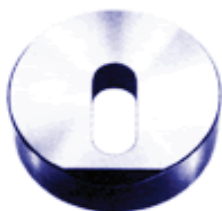
Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
12,0 x 36,0	20,5	5068123162
12,0 x 41,0	25,0	5068123163
14,5 x 36,0	21,0	5068123211
14,5 x 41,0	25,0	5068123212
15,0 x 36,0	21,0	5068123230
15,0 x 41,0	25,0	5068123231
17,0 x 36,0	21,5	5068123245
17,0 x 41,0	25,5	5068123246
18,5 x 36,0	21,5	5068123262
18,5 x 41,0	25,5	5068123263
20,0 x 36,0	22,0	5068123278
20,0 x 41,0	25,5	5068123279
21,5 x 36,0	22,5	5068123295
21,5 x 41,0	26,0	5068123296
23,5 x 36,0	23,0	5068123312
23,5 x 41,0	26,0	5068123313
25,0 x 41,0	26,0	5068123325
26,5 x 41,0	26,5	5068123337
27,0 x 41,0	27,0	5068123346
28,0 x 41,0	27,5	5068123355



Matrize - Die - Matrice
50682-1

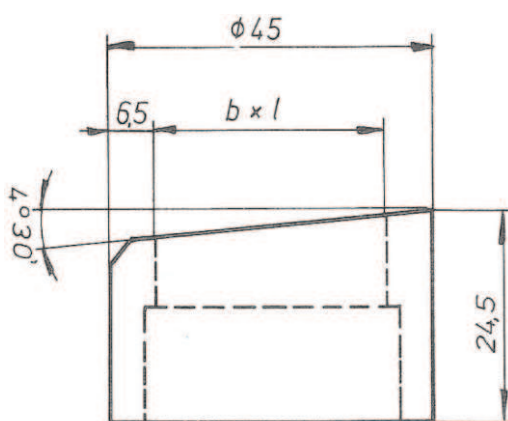
Mubea
 Aftermarket Services



Form/Forme:



Lang zur Maschine
 In line to the machine
 Parallèle à l'axe de la machine



mm	Artikel-Nr.
8,0 x 16,0	5068213071
9,0 x 14,0	5068213082
9,0 x 17,0	5068213083
9,0 x 21,0	5068213084
9,0 x 26,0	5068213085
9,0 x 31,0	5068213086
10,0 x 14,0	5068213101
10,0 x 19,0	5068213102
10,0 x 21,0	5068213103
10,0 x 26,0	5068213104
10,0 x 31,0	5068213105
10,5 x 14,0	5068213119
10,5 x 16,0	5068213120
10,5 x 26,0	5068213122
10,5 x 31,0	5068213123
10,5 x 21,0	5068213126
11,5 x 16,0	5068213135
11,5 x 22,0	5068213136
11,5 x 26,0	5068213137
11,5 x 31,0	5068213138
12,0 x 16,0	5068213158
12,0 x 21,0	5068213159
12,0 x 26,0	5068213160
12,0 x 31,0	5068213161
13,0 x 21,0	5068213175

Matrize - Die - Matrice
50682-1

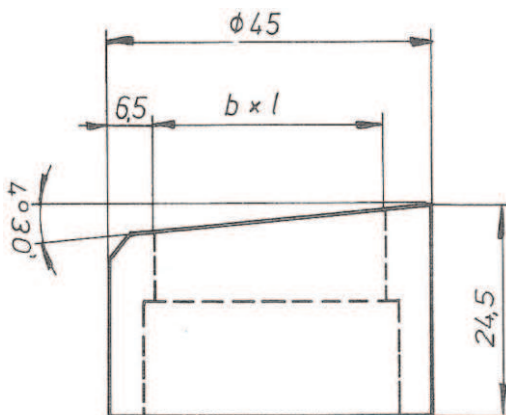
Mubea
 Aftermarket Services



Form/Forme:



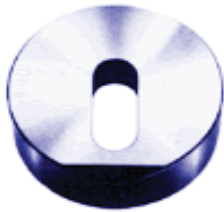
Lang zur Maschine
 In line to the machine
 Parallèle à l'axe de la machine



mm	Artikel-Nr.
13,0 x 26,0	5068213176
13,0 x 31,0	5068213177
14,0 x 21,0	5068213187
14,0 x 26,0	5068213188
14,0 x 31,0	5068213189
14,5 x 21,0	5068213208
14,5 x 26,0	5068213209
14,5 x 31,0	5068213210
15,0 x 21,0	5068213227
15,0 x 26,0	5068213228
15,0 x 31,0	5068213229
17,0 x 26,0	5068213243
17,0 x 31,0	5068213244
18,5 x 26,0	5068213260
18,5 x 31,0	5068213261
19,0 x 31,0	5068213264
20,0 x 26,0	5068213276
20,0 x 31,0	5068213277
21,5 x 26,0	5068213293
21,5 x 31,0	5068213294
23,0 x 31,0	5068213308
23,5 x 31,0	5068213311
25,0 x 31,0	5068213324
26,5 x 31,0	5068213336

Matrize - Die - Matrice
50682-2

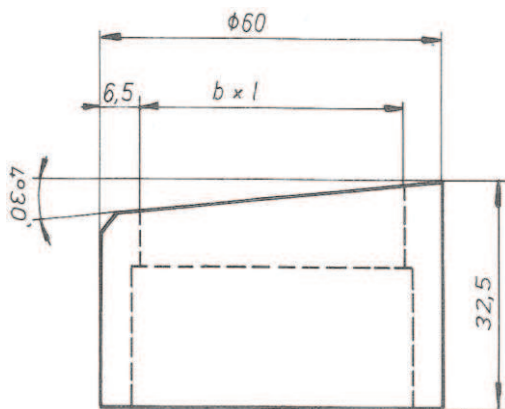
Mubea
 Aftermarket Services



Form/Forme:



Lang zur Maschine
 In line to the machine
 Parallèle à l'axe de la machine



mm	Artikel-Nr.
12,0 x 36,0	5068223162
12,0 x 41,0	5068223163
14,5 x 36,0	5068223211
14,5 x 41,0	5068223212
15,0 x 36,0	5068223230
15,0 x 41,0	5068223231
17,0 x 36,0	5068223245
17,0 x 41,0	5068223246
18,5 x 36,0	5068223262
18,5 x 41,0	5068223263
20,0 x 36,0	5068223278
20,0 x 41,0	5068223279
21,5 x 36,0	5068223295
21,5 x 41,0	5068223296
23,5 x 36,0	5068223312
23,5 x 41,0	5068223313
25,0 x 41,0	5068223325
26,5 x 41,0	5068223337
27,0 x 41,0	5068223346
28,0 x 41,0	5068223355

Matrize - Die - Matrice
50683-1

Mubea
 Aftermarket Services

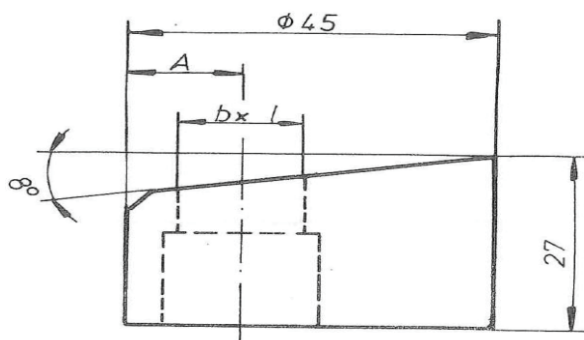


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
7,5 x 14,0	11,0	5068313049
7,5 x 16,0	11,5	5068313050
7,5 x 21,0	12,5	5068313051
7,5 x 26,0	14,5	5068313052
7,5 x 31,0	19,0	5068313053
8,0 x 16,0	11,5	5068313071
8,0 x 21,0	12,5	5068313066
8,0 x 26,0	15,0	5068313067
8,0 x 31,0	19,5	5068313068
9,0 x 14,0	11,5	5068313082
9,0 x 21,0	13,0	5068313084
9,0 x 26,0	15,0	5068313085
9,0 x 31,0	19,5	5068313086
10,0 x 14,0	12,0	5068313101
10,0 x 19,0	12,5	5068313102
10,0 x 21,0	13,0	5068313103
10,0 x 26,0	15,0	5068313104
10,0 x 31,0	19,5	5068313105
10,5 x 14,0	12,0	5068313119
10,5 x 16,0	12,5	5068313120
10,5 x 21,0	13,5	5068313126
10,5 x 26,0	15,5	5068313122
10,5 x 31,0	19,5	5068313123
11,5 x 16,0	12,5	5068313135
11,5 x 22,0	14,0	5068313136
11,5 x 26,0	15,5	5068313137
11,5 x 31,0	19,5	5068313138
12,0 x 16,0	13,0	5068313158



Matrize - Die - Matrice
50683-1

Mubea
 Aftermarket Services

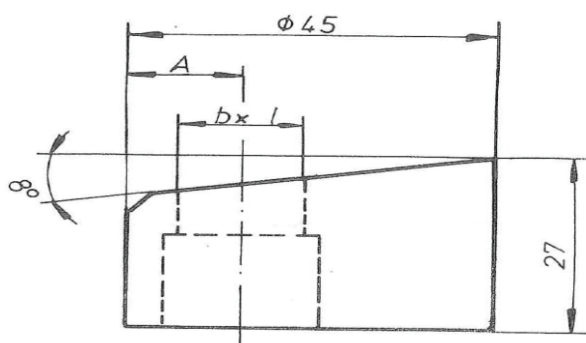


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
12,0 x 21,0	14,0	5068313159
12,0 x 26,0	15,5	5068313160
12,0 x 31,0	19,5	5068313161
13,0 x 21,0	14,0	5068313175
13,0 x 26,0	16,0	5068313176
13,0 x 31,0	19,0	5068313177
14,0 x 21,0	14,5	5068313187
14,0 x 26,0	16,0	5068313188
14,0 x 31,0	20,0	5068313189
14,5 x 21,0	14,5	5068313208
14,5 x 26,0	16,0	5068313209
14,5 x 31,0	20,0	5068313210
15,0 x 21,0	15,0	5068313227
15,0 x 26,0	16,5	5068313228
15,0 x 31,0	20,0	5068313229
17,0 x 26,0	16,5	5068313243
17,0 x 31,0	20,0	5068313244
18,5 x 26,0	17,0	5068313260
18,5 x 31,0	20,0	5068313261
19,0 x 31,0	20,0	5068313264
20,0 x 26,0	17,5	5068313276
20,0 x 31,0	20,5	5068313277
21,5 x 26,0	18,0	5068313293
21,5 x 31,0	20,5	5068313294
23,0 x 31,0	20,5	5068313308
23,5 x 31,0	20,5	5068313311
25,0 x 31,0	21,0	5068313324
26,5 x 31,0	21,0	5068313336



Matrize - Die - Matrice
50683-2

Mubea
 Aftermarket Services

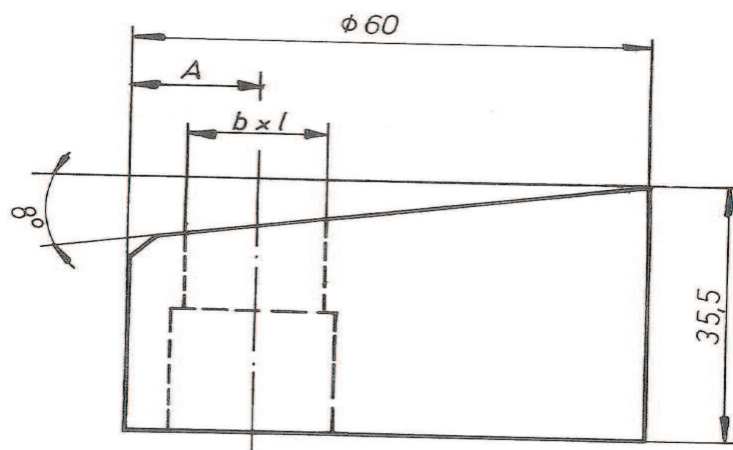


Form/Forme:



Quer zur Maschine
 Perpendicular to the machine
 Transversale à l'axe de
 la machine

mm	A mm	Artikel-Nr.
12,0 x 36,0	20,5	5068123162
12,0 x 41,0	25,0	5068123163
14,5 x 36,0	21,0	5068123211
14,5 x 41,0	25,0	5068123212
15,0 x 36,0	21,0	5068123230
15,0 x 41,0	25,0	5068123231
17,0 x 36,0	21,5	5068123245
17,0 x 41,0	25,5	5068123246
18,5 x 36,0	21,5	5068123262
18,5 x 41,0	25,5	5068123263
20,0 x 36,0	22,0	5068123278
20,0 x 41,0	25,5	5068123279
21,5 x 36,0	22,5	5068123295
21,5 x 41,0	26,0	5068123296
23,5 x 36,0	23,0	5068123312
23,5 x 41,0	26,0	5068123313
25,0 x 41,0	26,0	5068123325
26,5 x 41,0	26,5	5068123337
27,0 x 41,0	27,0	5068123346
28,0 x 41,0	27,5	5068123355



Werkzeuge für Dreiecksklinkungen 45°
Tools for triangular notching 45°
Outils pour grugeages triangulaires 45°

Mubea
 Aftermarket Services

Stempel - Punches - Poinçons

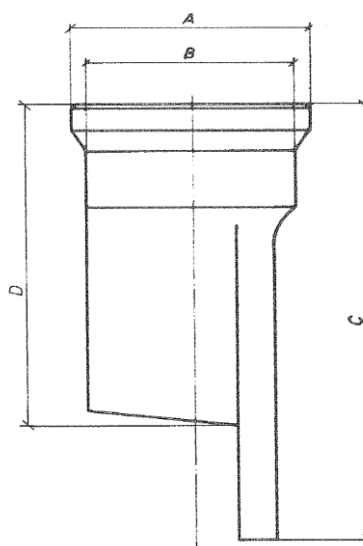
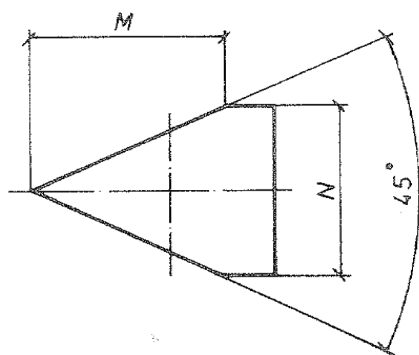
MBN 50564-2

MBN 50564-3

MBN 50564-4



MBN	A	B	C	D	M	N	Artikel-Nr.
50564-2	36	30	102	75	17,5	15,5	50564 20 000
50564-3	46	40	102	75	28,5	24,5	50564 30 000
50564-4	56	50	102	75	35	31	50564 40 000



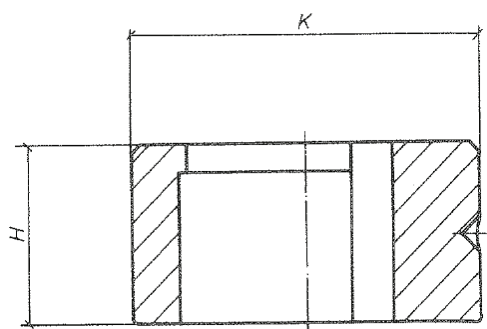
Matrizen - Dies - Matrices

MBN 50624-2

MBN 50624-3

MBN 50624-4

MBN	H	K	Artikel-Nr.
50624-2	22,5	45	50624 20 000
50624-3	30	60	50624 30 000
50624-4	40	80	50624 40 000



Werkzeuge für Dreiecksklinkungen 45°
Tools for triangular notching 45°
Outils pour grugeages triangulaires 45°

Mubea
 Aftermarket Services

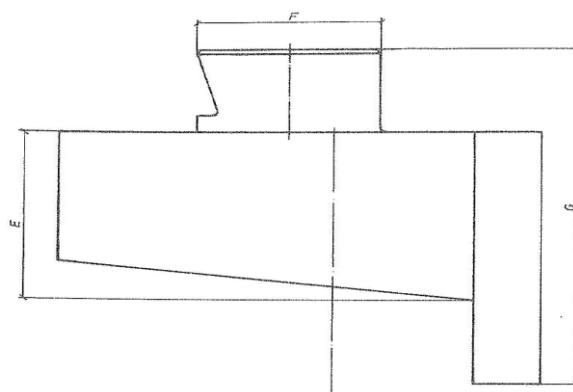
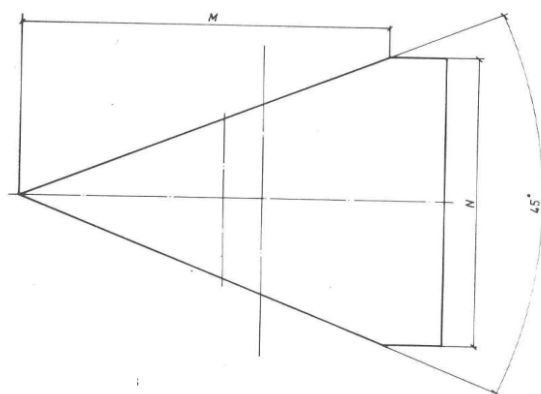
Stempel - Punches - Poinçons

MBN 50564-5

MBN 50564-6



MBN	E	F	G	M	N	Artikel-Nr.
50564-5	60	50	120	75	64	50564 50 000
50564-6	60	50	120	113	96	50564 60 000

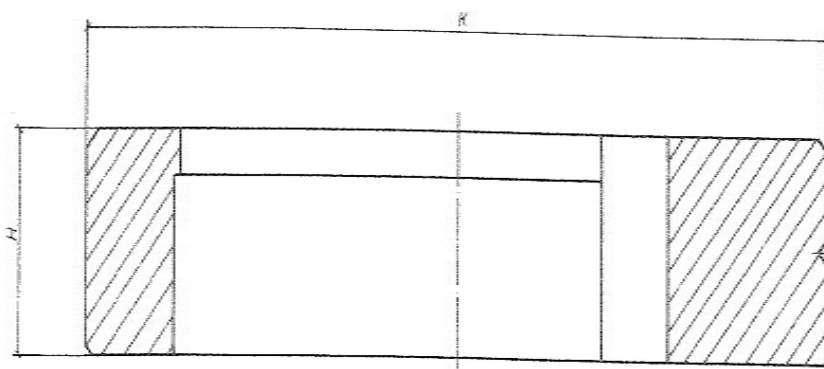


Matrizen - Dies - Matrices

MBN 50624-5

MBN 50624-6

MBN	H	K	Artikel-Nr.
50624-5	40	150	50624 50 000
50624-6	40	200	50624 60 000



Werkzeuge für Dreiecksklinkungen 60°
Tools for triangular notching 60°
Outils pour grugeages triangulaires 60°

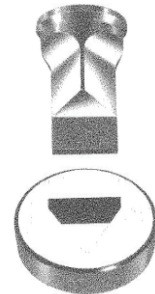
Mubea
 Aftermarket Services

Stempel - Punches - Poinçons

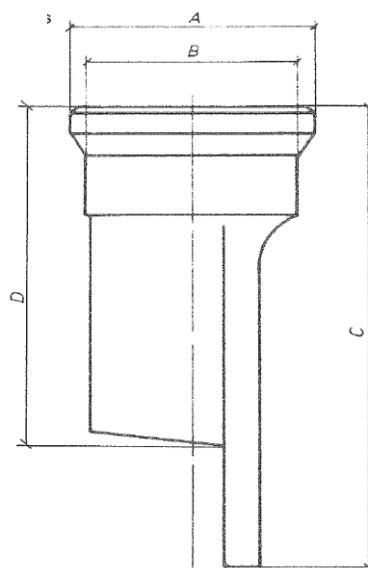
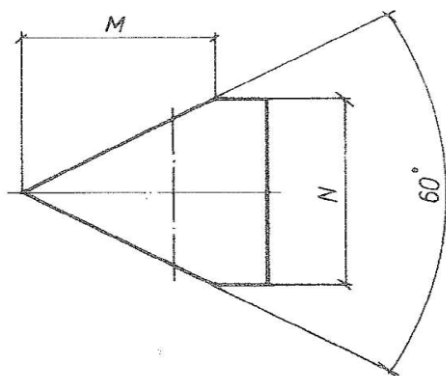
MBN 50563-2

MBN 50563-3

MBN 50563-4



MBN	A	B	C	D	M	N	Artikel-Nr.
50563-2	36	30	102	75	16	19,5	50563 20 000
50563-3	46	40	102	75	25,5	30,5	50563 30 000
50563-4	56	50	102	75	32	39	50563 40 000



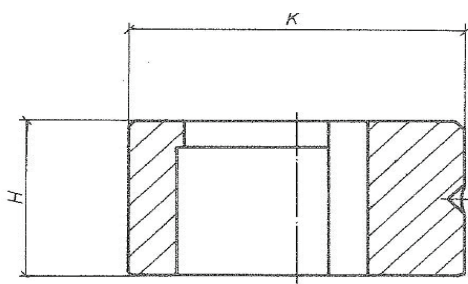
Matrizen - Dies - Matrices

MBN 50623-2

MBN 50623-3

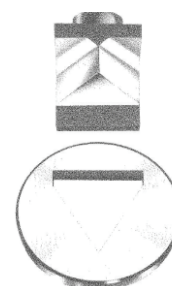
MBN 50623-4

MBN	H	K	Artikel-Nr.
50623-2	22,5	45	50623 20 000
50623-3	30	60	50623 30 000
50623-4	40	80	50623 40 000



Werkzeuge für Dreieckklinkungen 60°
Tools for triangular notching 60°
Outils pour grugeages triangulaires 60°

Mubea
 Aftermarket Services

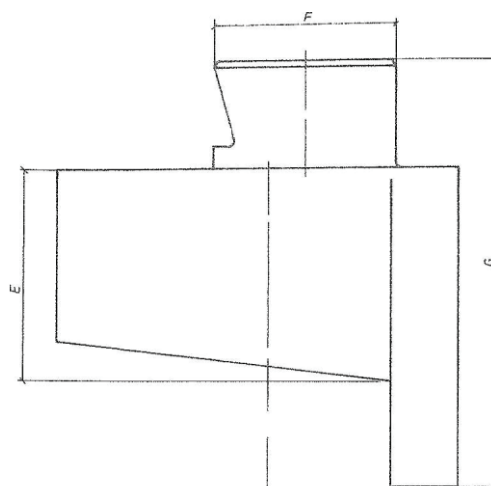
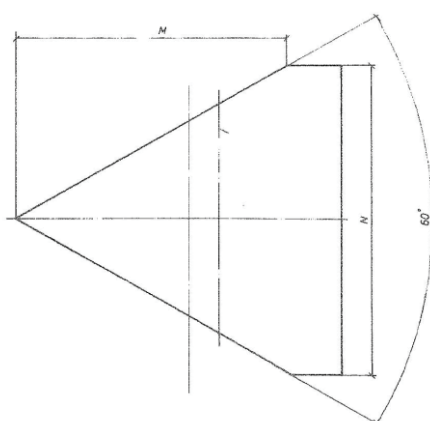


Stempel - Punches - Poinçons

MBN 50563-5

MBN 50563-6

MBN	E	F	G	M	N	Artikel-Nr.
50563-5	60	50	120	68	80,5	50563 50 000
50563-6	60	50	120	92	108	50563 60 000

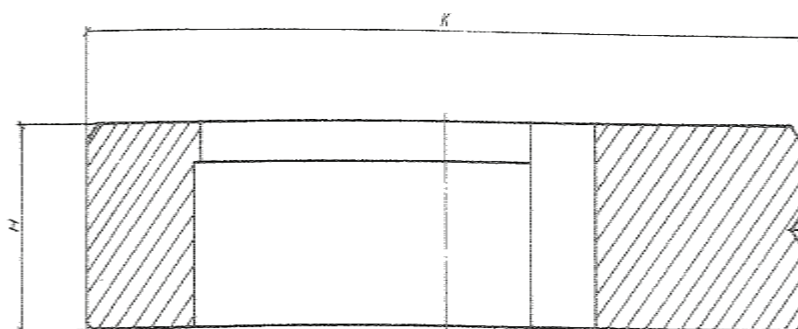


Matrizen - Dies - Matrices

MBN 50623-5

MBN 50623-6

MBN	H	K	Artikel-Nr.
50623-5	40	150	50623 50 000
50623-6	40	200	50623 60 000



Werkzeuge für Dreiecksklinkungen 90°
Tools for triangular notching 90°
Outils pour grugeages triangulaires 90°

Mubea
 Aftermarket Services



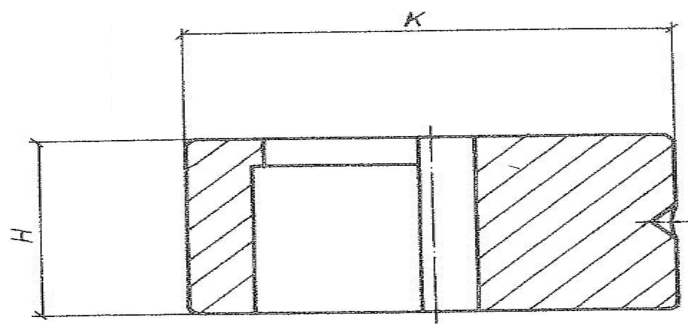
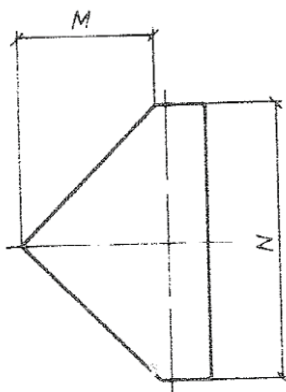
Stempel - Punches - Poinçons

MBN 50562-2

MBN 50562-3

MBN 50562-4

MBN	A	B	C	D	M	N	Artikel-Nr.
50562-2	36	30	102	75	11,5	24	50562 20 000
50562-3	46	40	102	75	19	39	50562 30 000
50562-4	56	50	102	75	23,5	48,5	50562 40 000



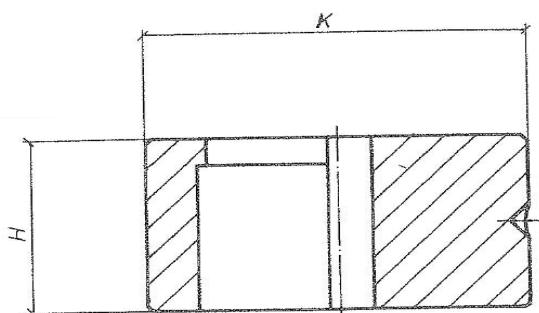
Matrizen - Dies - Matrices

MBN 50622-2

MBN 50622-3

MBN 50622-4

MBN	H	K	Artikel-Nr.
50622-2	22,5	45	50622 20 000
50622-3	30	60	50622 30 000
50622-4	40	80	50622 40 000



Werkzeuge für Dreiecksklinkungen 90°
Tools for triangular notching 90°
Outils pour grugeages triangulaires 90°

Mubea
 Aftermarket Services

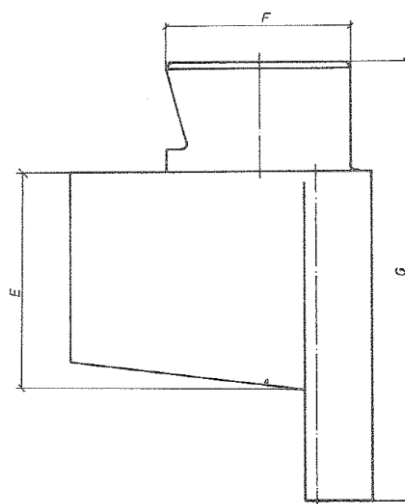
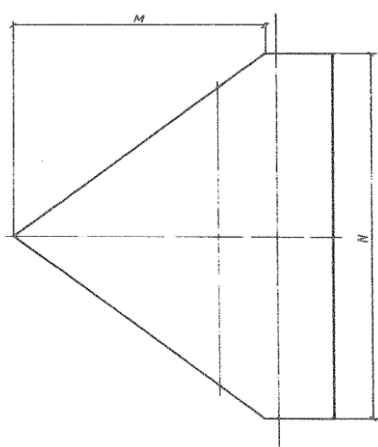
Stempel - Punches - Poinçons

MBN 50562-5

MBN 50562-6



MBN	E	F	G	M	N	Artikel-Nr.
50562-5	60	50	120	45	92	50562 50 000
50562-6	60	50	120	63	128	50562 60 000

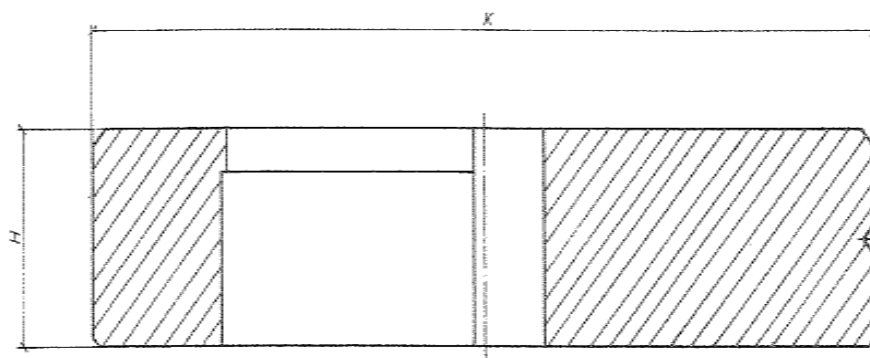


Matrizen - Dies - Matrices

MBN 50622-5

MBN 50622-6

MBN	H	K	Artikel-Nr.
50622-5	40	150	50622 50 000
50622-6	40	200	50622 60 000



Werkzeuge zum Abrunden von Ecken (90°) für Flachmaterial
Tools for rounding off corners (90°) of flats
Outils pour arrondir les coins (90°) de fer plat

Stempel - Punches - Poinçons

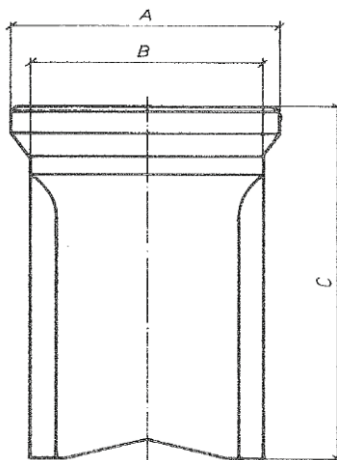
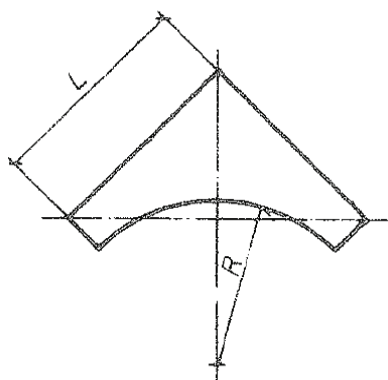
MBN 50569-2

MBN 50569-3

MBN 50569-4



MBN	A	B	C	R	L	Artikel-Nr.
50569-2	36	30	77	5	19	50569 20 005
				8		50569 20 008
				10		50569 20 010
				12		50569 20 012
				15		50569 20 015
50569-3	46	40	77	22	28	50569 30 022
50569-4	56	50	77	30	35	50569 40 030

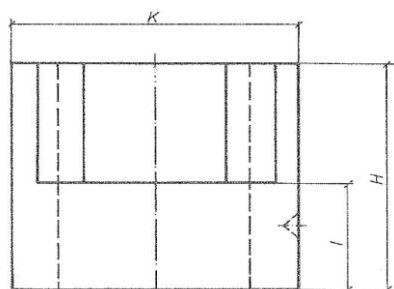


Matrizen - Dies - Matrices

MBN 50629-2

MBN 50629-3

MBN 50629-4



MBN	H	I	K	Artikel-Nr.
50629-2	45	22,5	45	50629 20 005
				50629 20 008
				50629 20 010
				50629 20 012
				50629 20 015
50629-3	54	30	60	50629 30 022
50629-4	65	40	80	50629 40 030

Werkzeuge zum Abrunden von Ecken (90°) für Flachmaterial
Tools for rounding off corners (90°) of flats
Outils pour arrondir les coins (90°) de fer plat

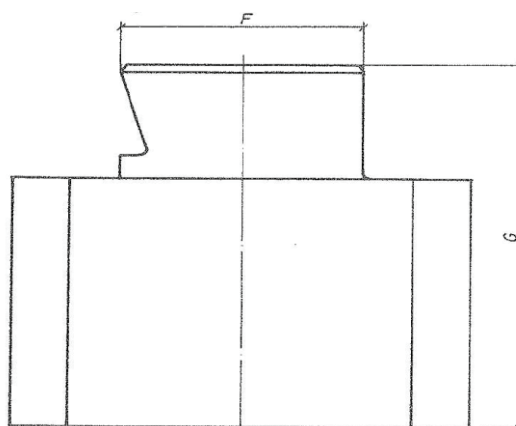
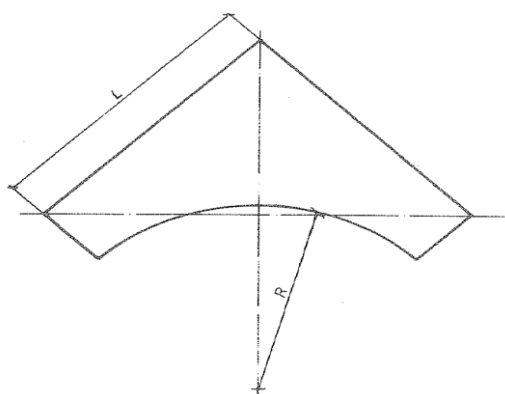
Stempel - Punches - Poinçons

MBN 50569-5

MBN 50569-6



MBN	F	G	L	R	Artikel-Nr.
50569-5	50	95	67	50	50569 50 000
50569-6	50	95	96	80	50569 60 000

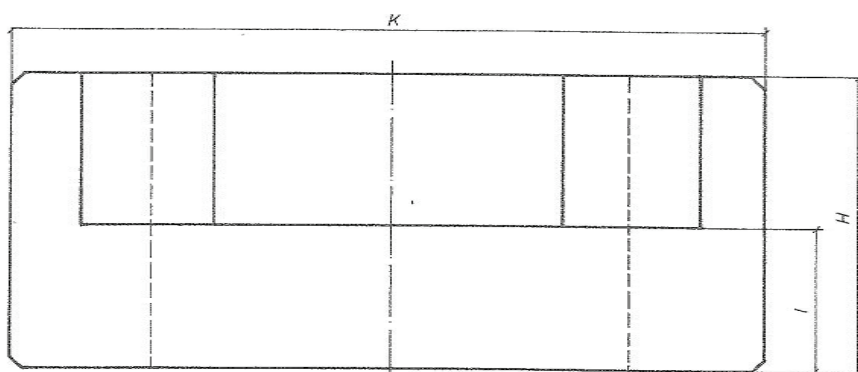


Matrizen - Dies - Matrices

MBN 50629-5

MBN 50629-6

MBN	H	I	K	Artikel-Nr.
50629-5	65	40	150	50629 50 000
50629-6	65	40	200	50629 60 000

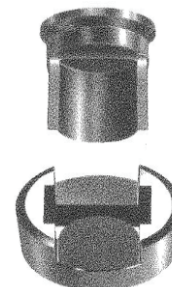


Werkzeuge zum Trennen und Abrunden
(eine Seite gerade, eine Seite abgerundet)

Tools for cutting and rounding off
(one side straight, other side rounded off)

Outils pour sØparer et arrondir
(un cØtØ droit, un cØtØ arrondi)

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 Aftermarket Services



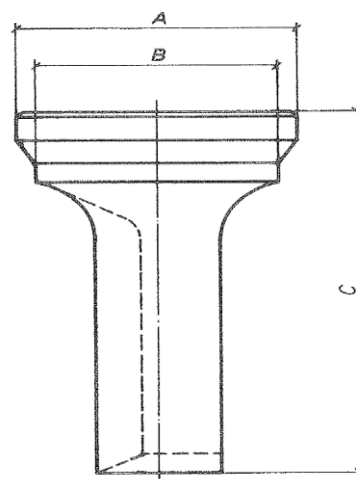
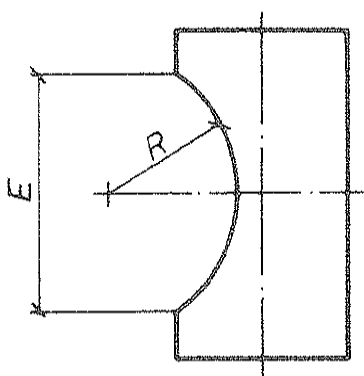
Stempel - Punches - Poinçons

MBN 50568-2

MBN 50568-3

MBN 50568-4

MBN	A	B	C	E	R	Artikel-Nr.
50568-2	36	30	77	16,5	10	50568 20 000
50568-3	46	40	77	25,7	15	50568 30 000
50568-4	56	50	77	32,5	18	50568 40 000



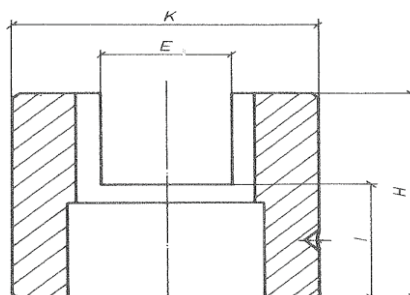
Matrizen - Dies - Matrices

MBN 50628-2

MBN 50628-3

MBN 50628-4

MBN	E	H	I	K	Artikel-Nr.
50628-2	16,5	45	22,5	45	50628 20 000
50628-3	25,7	54	30	60	50628 30 000
50628-4	32,5	65	40	80	50628 40 000

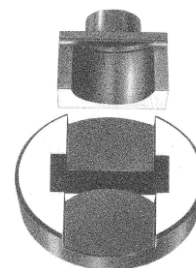


Werkzeuge zum Trennen und Abrunden
(eine Seite gerade, eine Seite abgerundet)

Mubea
 Aftermarket Services

Tools for cutting and rounding off
(one side straight, other side rounded off)

Outils pour sØparer et arrondir
(un cØtØ droit, un cØtØ arrondi)

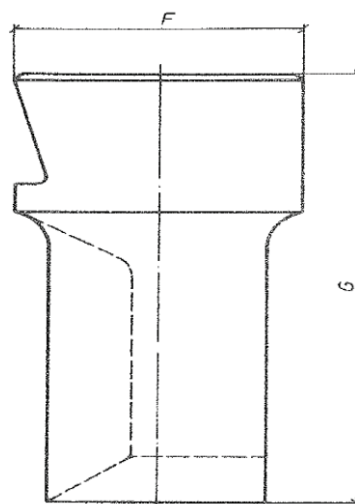
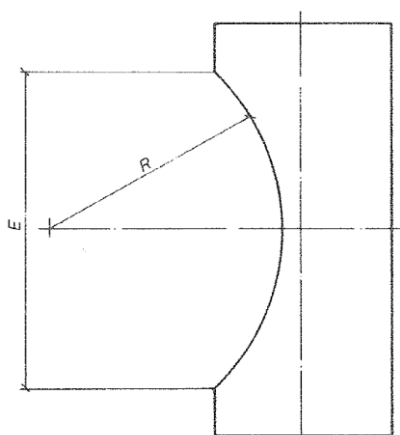


Stempel - Punches - Poinçons

MBN 50568-5

MBN 50568-6

MBN	E	F	G	R	Artikel-Nr.
50568-5	70,5	50	95	50	50568 50 000
50568-6	90,5	50	95	50	50568 60 000

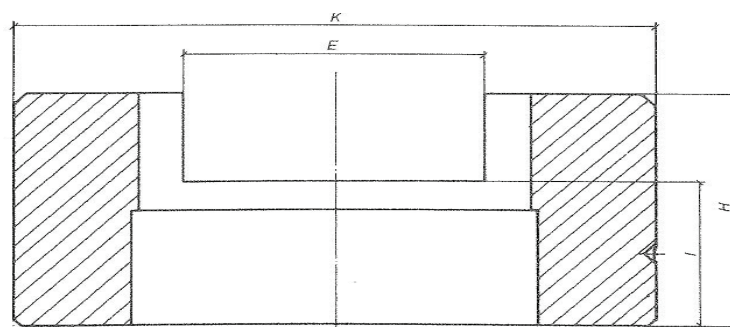


Matrizen - Dies - Matrices

MBN 50628-5

MBN 50628-6

MBN	E	H	I	K	Artikel-Nr.
50628-5	70,5	65	40	150	50628 50 000
50628-6	90,5	65	40	200	50628 60 000

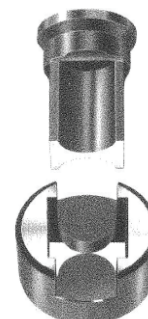


**Werkzeuge zum Trennen und
gleichzeitigen doppelseitigen Abrunden**

Mubea
Aftermarket Services

**Tools for cutting and simultaneously
bilateral rounding off**

**Outils pour sØparer et arrondir
les deux cØtØs en mØme temps**



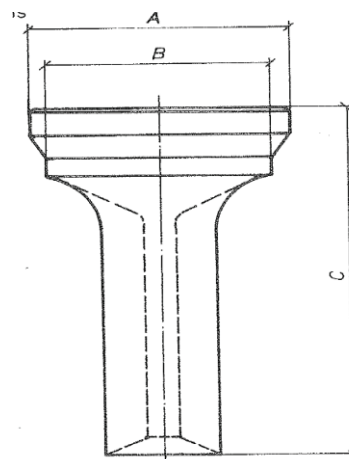
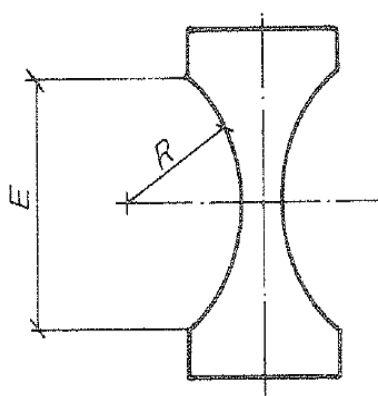
Stempel - Punches - Poinçons

MBN 50567-2

MBN 50567-3

MBN 50567-4

MBN	A	B	C	E	R	Artikel-Nr.
50567-2	36	30	77	16,5	10	50567 20 000
50567-3	46	40	77	25,7	15	50567 30 000
50567-4	56	50	77	32,5	18	50567 40 000



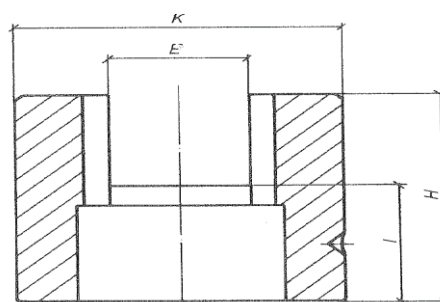
Matrizen - Dies - Matrices

MBN 50627-2

MBN 50627-3

MBN 50627-4

MBN	E	H	I	K	Artikel-Nr.
50627-2	16,5	45	22,5	45	50627 20 000
50627-3	25,7	54	30	60	50627 30 000
50627-4	32,5	65	40	80	50627 40 000

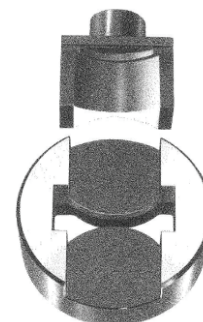


**Werkzeuge zum Trennen und
gleichzeitigen doppelseitigen Abrunden**

**Tools for cutting and simultaneously
bilateral rounding off**

**Outils pour sØparer at arrondir
les deux cØts en mØme temps**

Mubea
Aftermarket Services

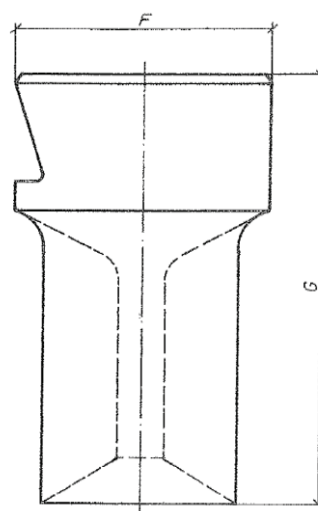
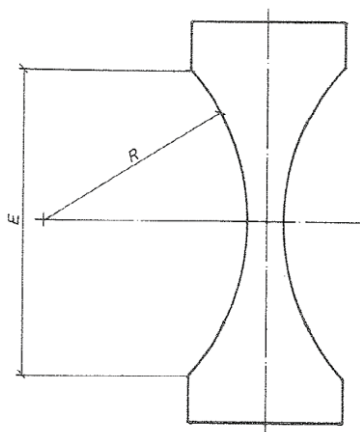


Stempel - Punches - Poinçons

MBN 50567-5

MBN 50567-6

MBN	E	F	G	R	Artikel-Nr.
50567-5	70,5	50	95	50	50567 50 000
50567-6	90,5	50	95	50	50567 60 000

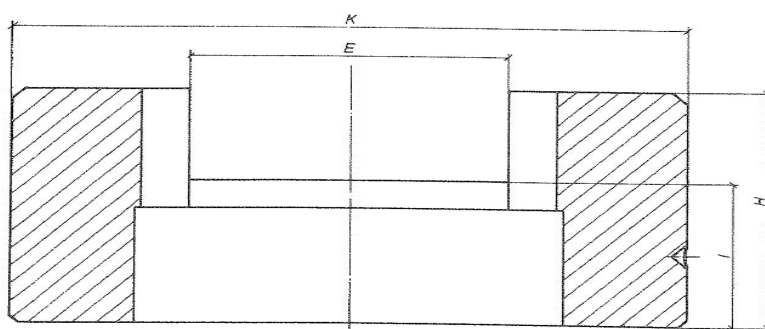


Matrizen - Dies - Matrices

MBN 50627-5

MBN 50627-6

MBN	E	H	I	K	Artikel-Nr.
50627-5	70,5	65	40	150	50627 50 000
50627-6	90,5	65	40	200	50627 60 000

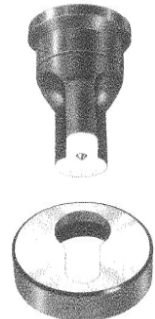


**Werkzeuge zum Stanzen von
Löchern für Profilzylinder**

Mubea
Aftermarket Services

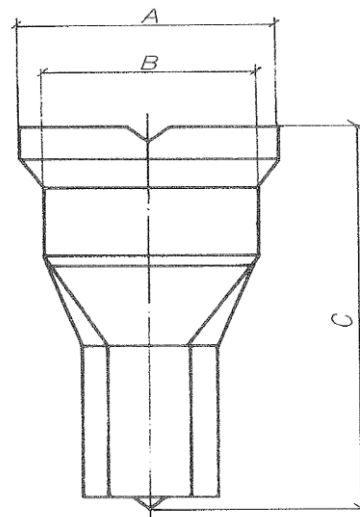
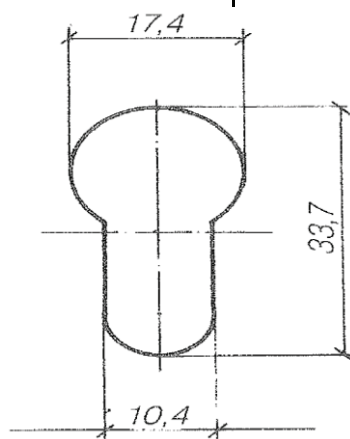
**Tools for punching holes
for sectional cylinders**

**Outils pour poinçonner des
trous pour cylindres profilés**



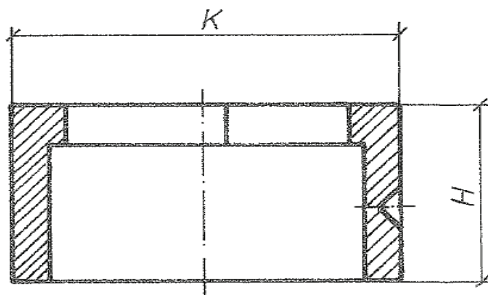
Stempel - Punches - Poinçons
MBN 50570-2
MBN 50570-3

MBN	A	B	C	Artikel-Nr.
50570-2	36	30	70	50570 20 000
50570-3	46	40	70	50570 30 000



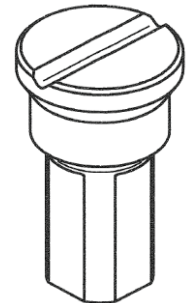
Matrizen - Dies - Matrices
MBN 50684-2
MBN 50684-3

MBN	H	K	Artikel-Nr.
50684-2	22,5	45	50684 20 000
50684-3	30	60	50684 30 000



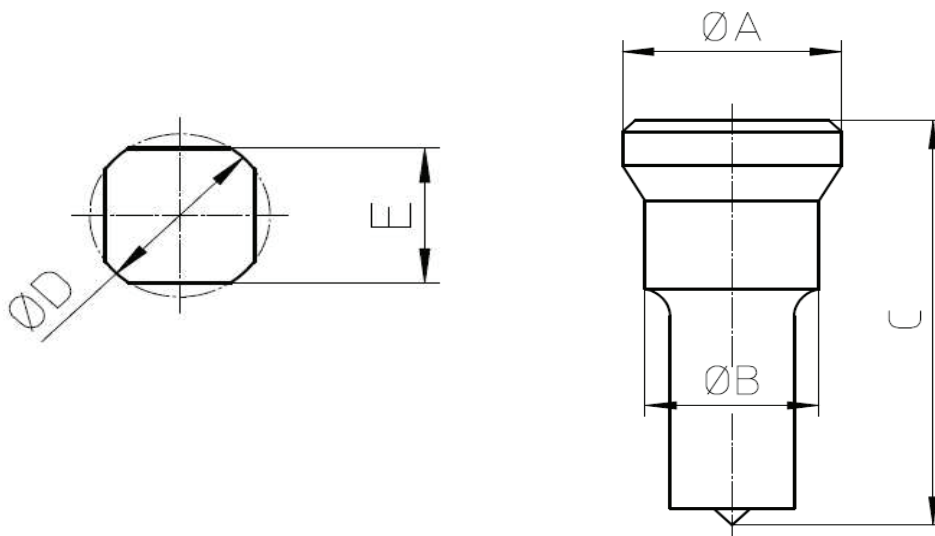
Drehriegelstempel
Hasp hole punch
Poinçon de trou morailon

Mubea
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Stempel - Punches - Poinçons
MBN 50505-2

MBN	A	B	C	D	E	Artikel-Nr.
50505-2	36	30	70	23	20,2	50505 27 001



Matrizen - Dies - Matrices
MBN 50638-0

MBN	H	K	Artikel-Nr.
50638-0	22,5	45	50638 07 001

