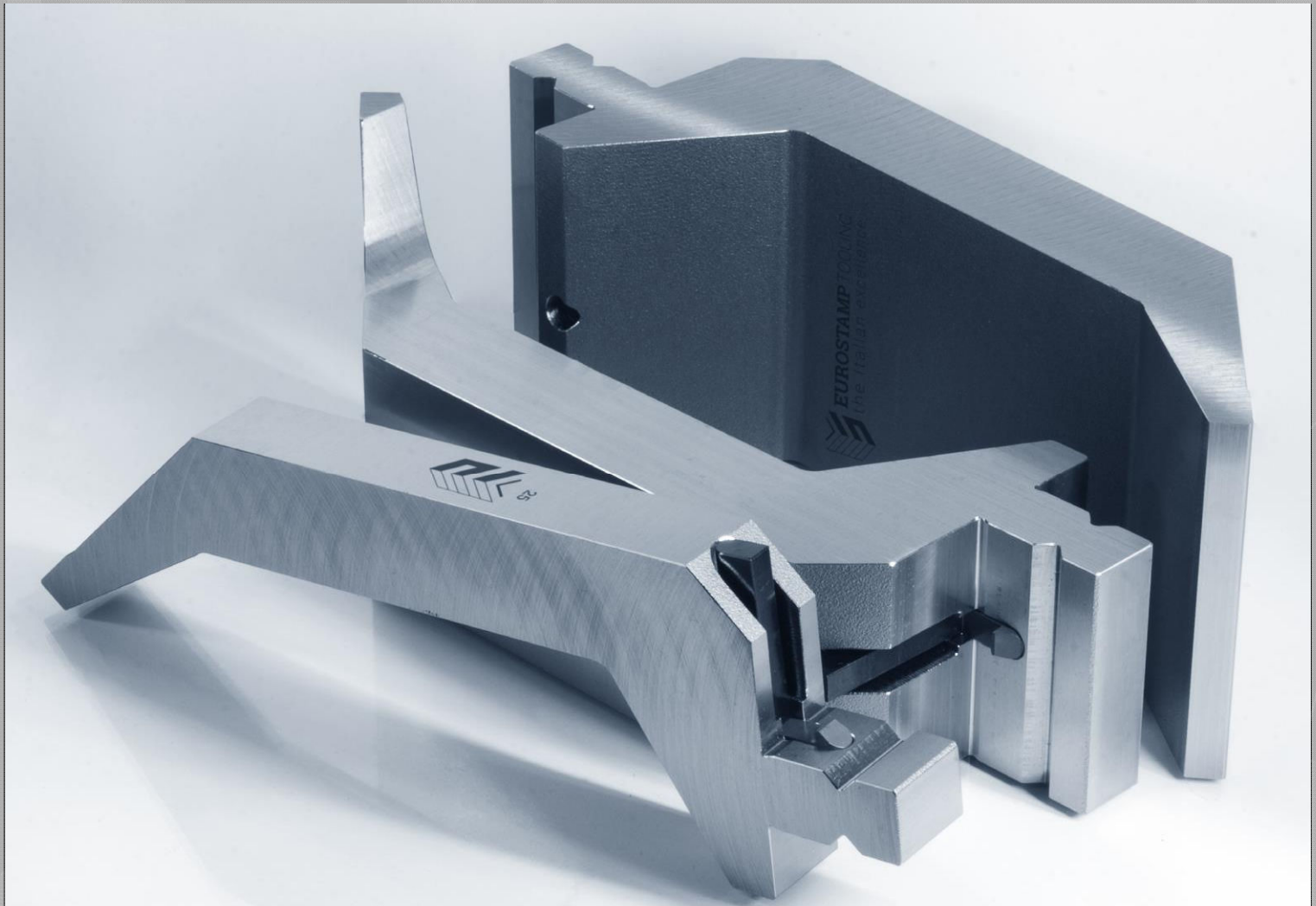


MATE OUTILLAGE FRANCE



Outils de pliage

TRUMPF WILA

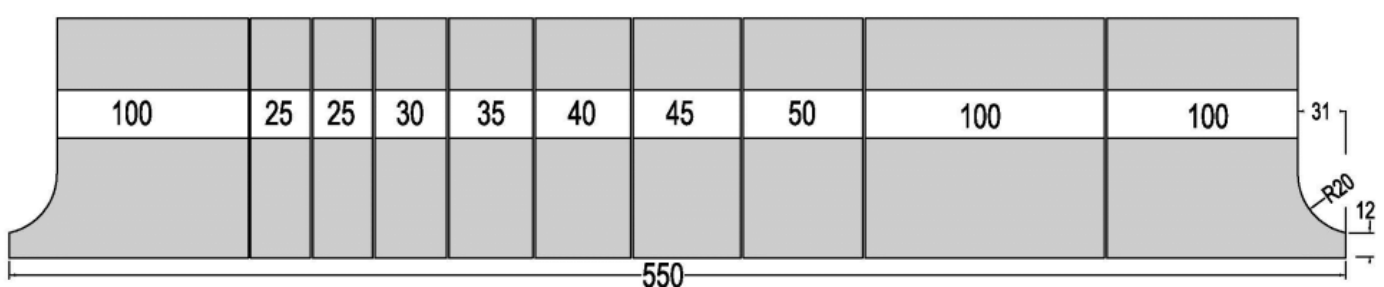


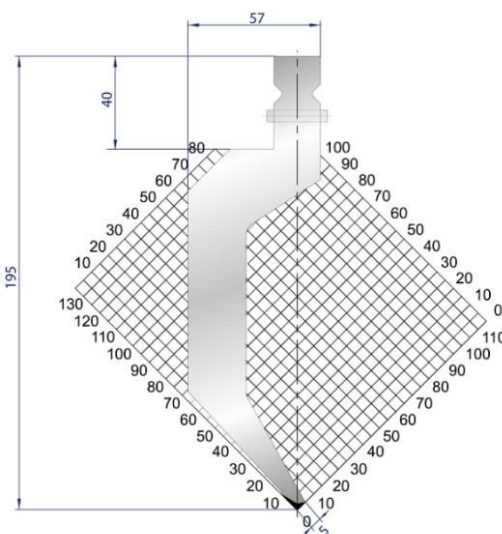
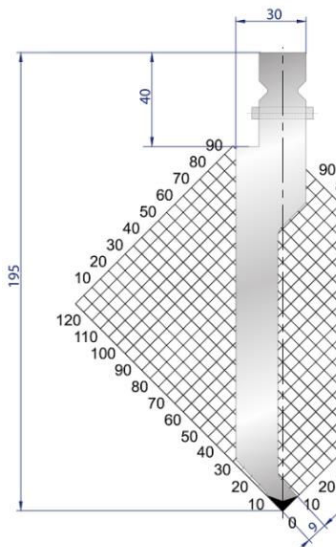
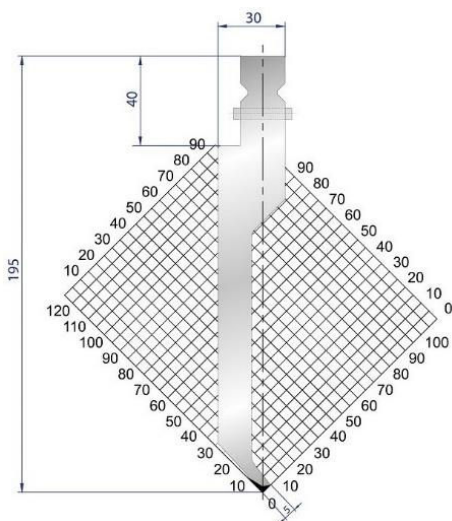
Combinaisons pour poinçons selon longueur

1233 - 1234 - 1235 - 1236 - 1237 - 1238
1295 - 1302 - 1308 - 1313 - 1314

				550
				1050
				1250
				2050
				2550
				3050
				4050

Gamme TRUMPF: l'ensemble des poinçons est en acier 42CrMo4.





1234

$a=86^\circ$ $R=0,6$ $H=195$ Max T/m=30

100 mm	200 mm	300 mm	500 mm	550 mm fr
178 €	309 €	412 €	556 €	1259 €

1235

$a=86^\circ$ $R=0,8$ $H=195$ Max T/m=100

100 mm	200 mm	300 mm	500 mm	550 mm fr
166 €	278 €	359 €	414 €	1020 €

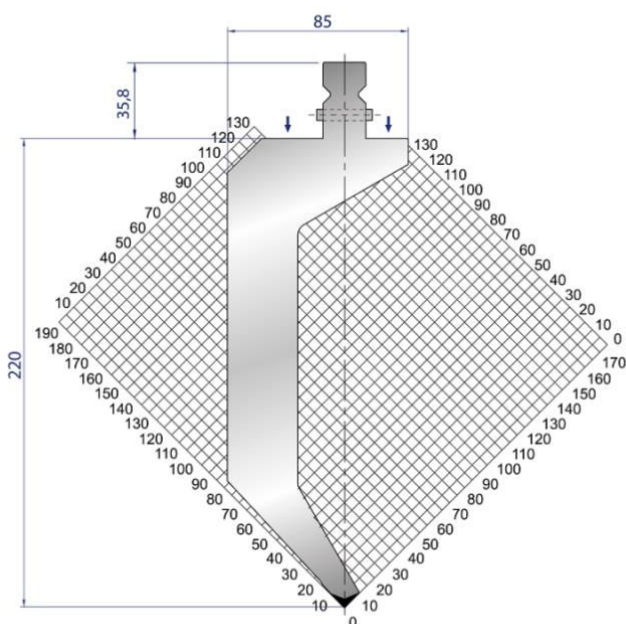
Goupilles sur 500 mm

1233

$a=86^\circ$ $R=0,8$ $H=195$ Max T/m=40

100 mm	200 mm	300 mm	500 mm	550 mm fr
208 €	364 €	484 €	610 €	1479 €

Goupilles sur 500 mm

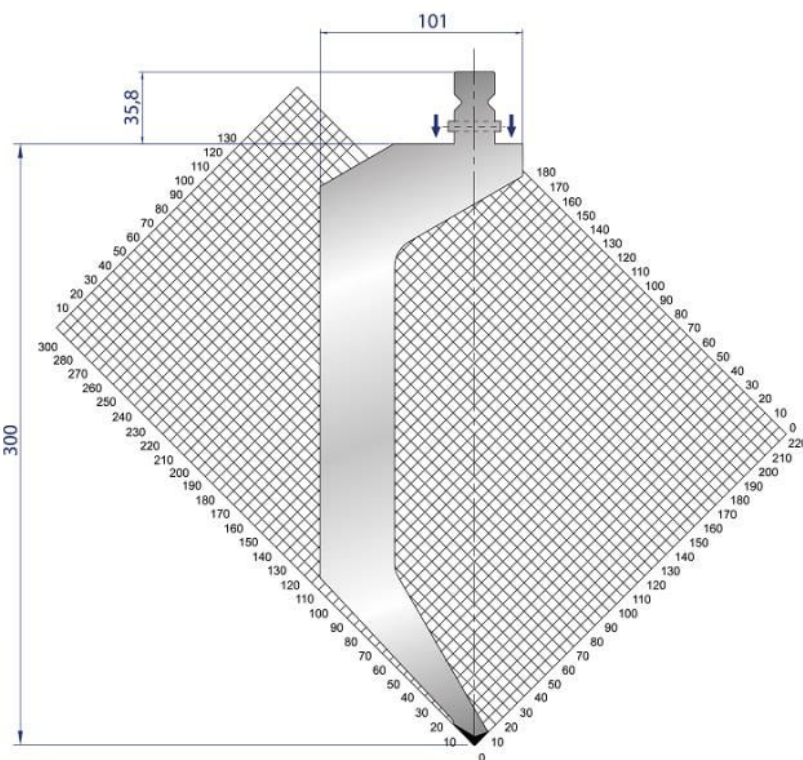


1294

$a=86^\circ$ $R=1$ $H=220$ Max T/m=85 (200/S)

100 mm	200 mm	300 mm	500 mm	550 mm fr
295 €	544 €	695 €	1024 €	1895 €

Goupilles sur 300 et 500 mm



1315

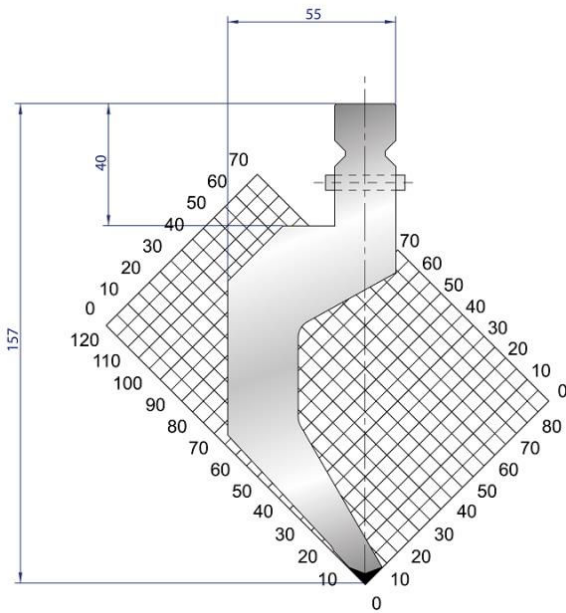
$a=86^\circ$ $R=1$ $H=300$ Max T/m=80 (300/S)

100 mm	200 mm	550 mm fr
453 €	726 €	2955 €

Goupilles sur 200 mm

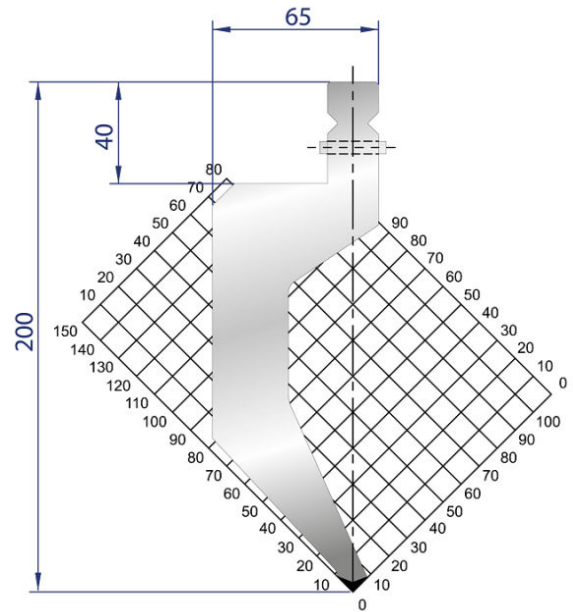
En standard:

Acier 42CrMo4, poinçons avec bouton de sécurité (sauf spécifié)



1314				
a=86° R=1 H=157 Max T/m=65 (200/K)				
100 mm	200 mm	300 mm	500 mm	550 mm fr
183 €	322 €	429 €	539 €	1421 €

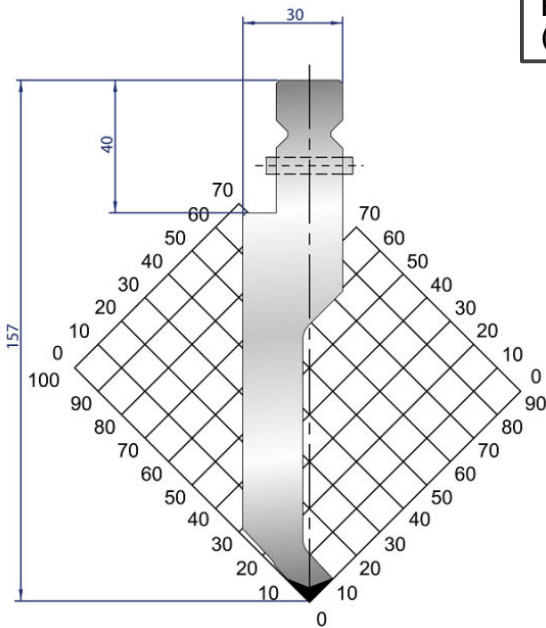
Goupilles sur 500 mm



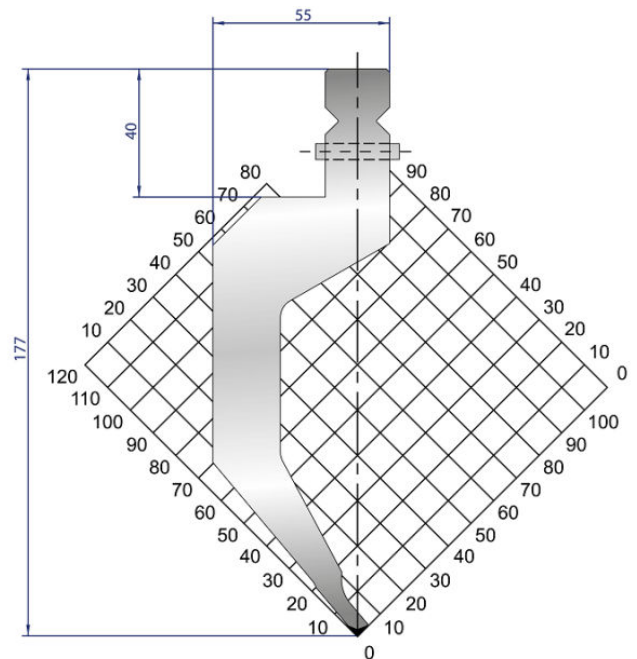
1320				
a=86° R=1.5 H=200 Max T/m=100				
100 mm	200 mm	300 mm	500 mm	550 mm fr
226 €	396 €	463 €	670 €	1707 €

Goupilles sur 300 et 500 mm

En standard:
Acier 42CrMo4,
poinçons avec
bouton de sécurité
(sauf spécifié)

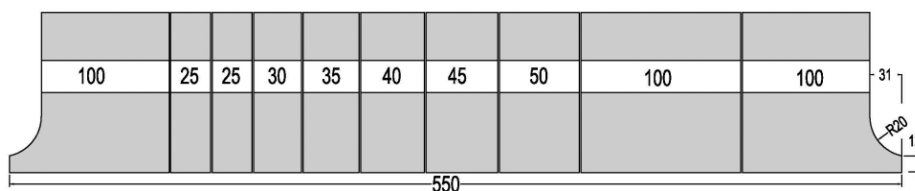


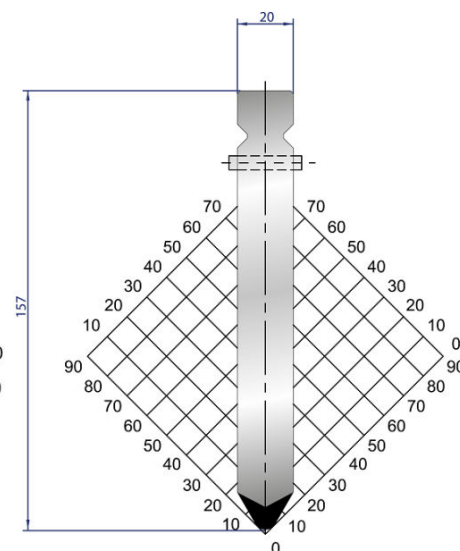
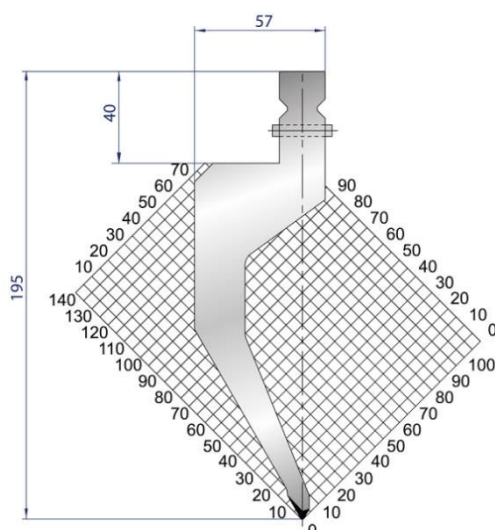
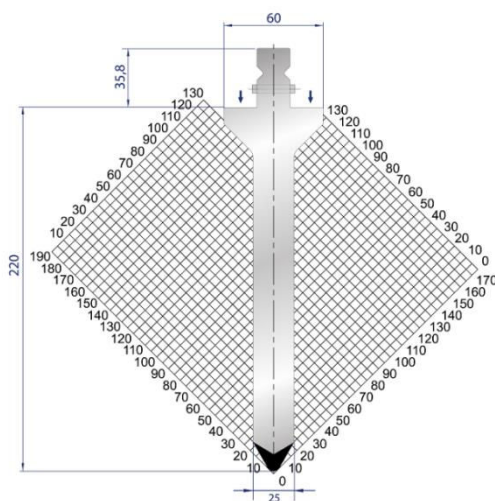
1317				
a=86° R=1 H=157 Max T/m=100 (201/K)				
100 mm	200 mm	300 mm	500 mm	550 mm fr
143 €	235 €	301 €	364 €	945 €



1319				
a=80° R=0.5 H=177 Max T/m=20 (280/K)				
100 mm	200 mm	300 mm	500 mm	550 mm fr
229 €	418 €	573 €	778 €	1444 €

Goupilles sur 500 mm





1303

a=60° R=4 H=220 Max T/m=100 (203/S)

100 mm	200 mm	300 mm	500 mm	550 mm fr
234 €	415 €	490 €	746 €	1646 €

Goupilles sur 300 et 500 mm

1236

a=60° R=0,8 H=195 Max T/m=40

100 mm	200 mm	300 mm	500 mm	550 mm fr
232 €	415 €	552 €	726 €	1707 €

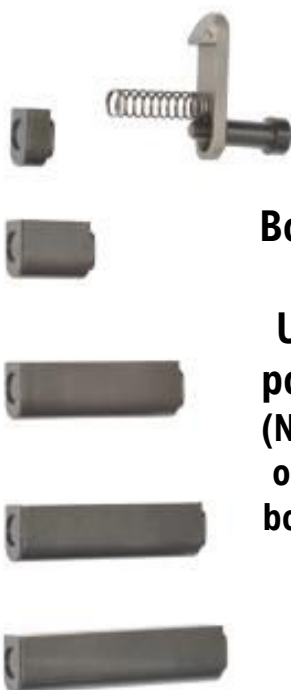
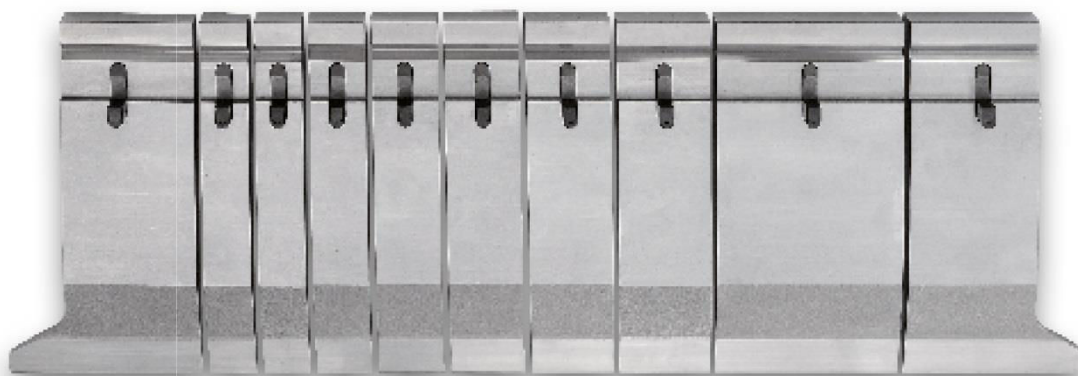
Goupilles sur 500 mm

1318

a=60° R=4 H=157 Max T/m=100 (203/K)

100 mm	200 mm	300 mm	500 mm	550 mm fr
126 €	212 €	266 €	341 €	877 €

En standard:
Acier 42CrMo4,
poinçons avec
bouton de sécurité
(sauf spécifié)



Bouton SC de rechange:
42 €

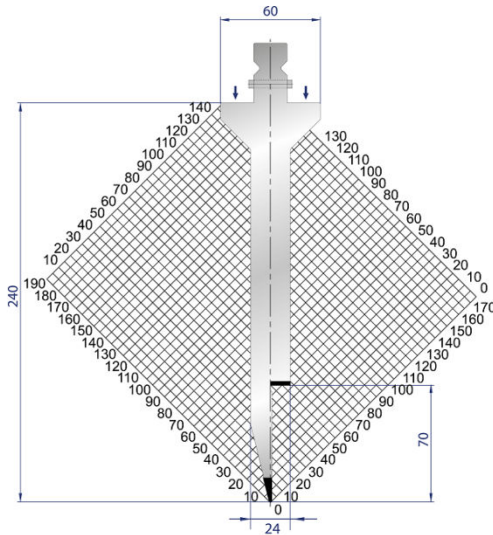
**Usinage sur outil pour
pose de bouton SC: 38€**
(Nous préciser la référence
originale de l'outil pour la
bonne longueur de bouton)

**Bigornes spéciales
sur demande.**

**Option nitruration
disponible sur
demande.**

**Supplément pour
coupe à longueur:
40€ par coupe.**

Gamme TRUMPF:
l'ensemble
des poinçons
est en acier
42CrMo4.

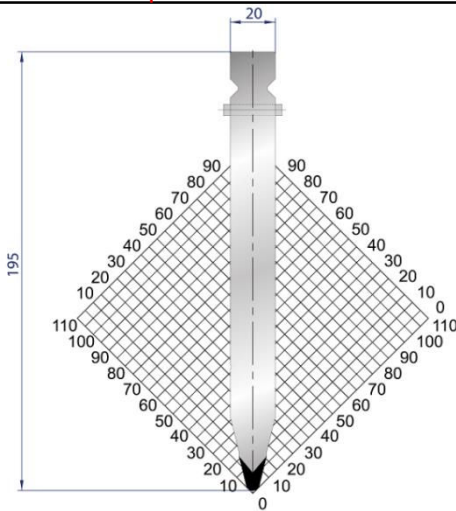


1295

a=28° R=1 H=240 Max T/m=40 (210/S)

100 mm	200 mm	300 mm	500 mm	550 mm fr
274 €	497 €	619 €	904 €	1819 €

Goupilles sur 300 et 500 mm

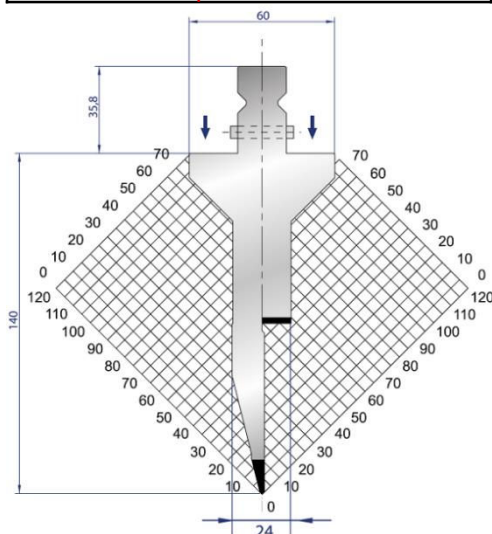


1237

a=28° R=3 H=195 Max T/m=100

100 mm	200 mm	300 mm	500 mm	550 mm fr
143 €	233 €	290 €	302 €	920 €

Goupilles sur 500 mm

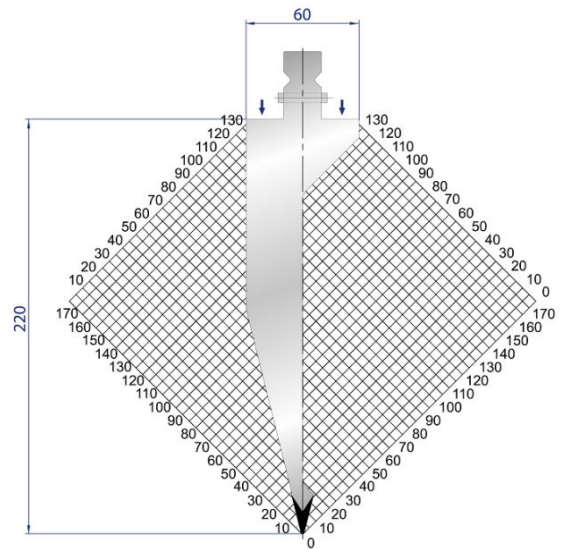


1308

a=28° R=1 H=140 Max T/m=40 (210)

100 mm	200 mm	300 mm	500 mm	550 mm fr
222 €	407 €	552 €	749 €	1503 €

Goupilles sur 500 mm

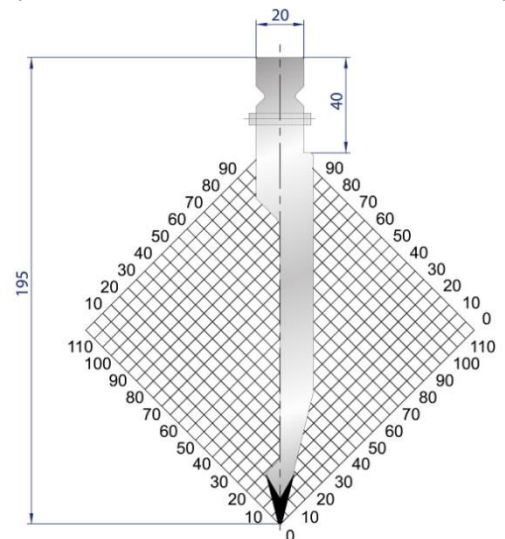


1302

a=28° R=1 H=220 Max T/m=80 (202/S)

100 mm	200 mm	300 mm	500 mm	550 mm fr
246 €	459 €	526 €	726 €	1707 €

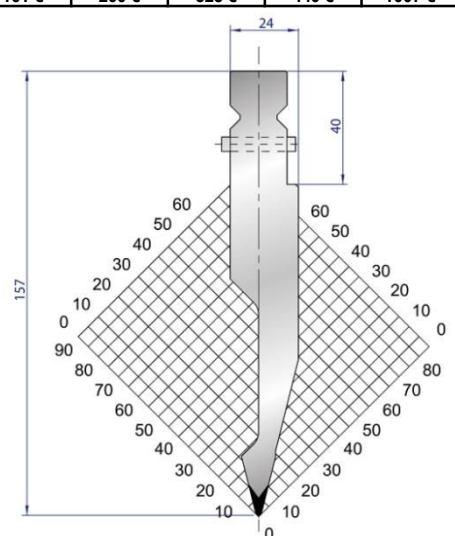
Goupilles sur 300 et 500 mm



1238

a=28° R=1 H=195 Max T/m=80

100 mm	200 mm	300 mm	500 mm	550 mm fr
161 €	260 €	323 €	440 €	1007 €

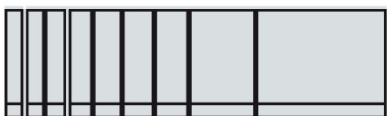
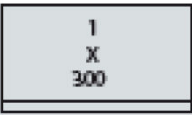
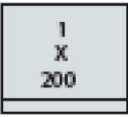
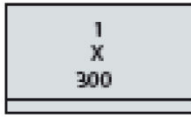
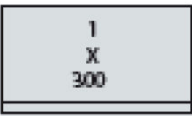
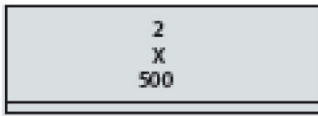
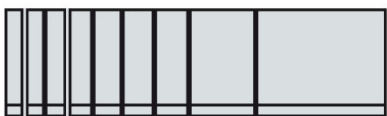
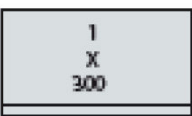
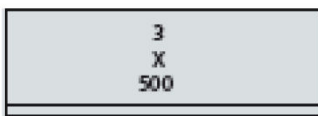
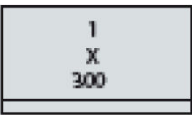
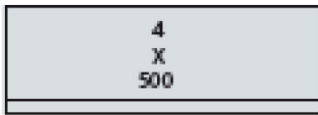
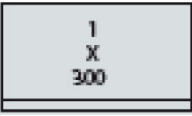
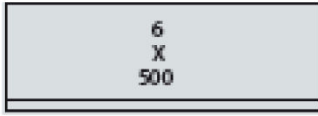


1313

a=28° R=1 H=157 Max T/m=80 (202/K)

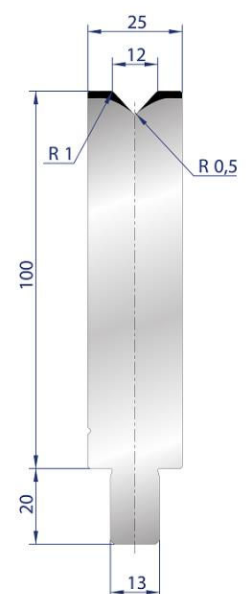
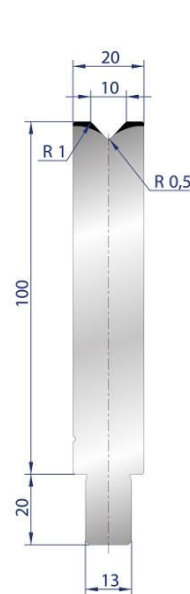
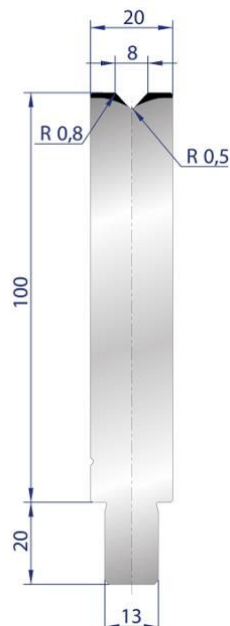
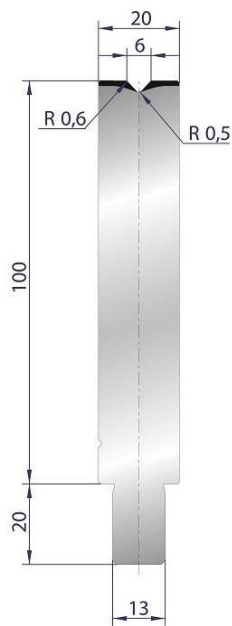
100 mm	200 mm	300 mm	500 mm	550 mm fr
150 €	235 €	293 €	378 €	918 €

Combinaisons pour matrices selon longueur

								550
								1050
								1250
								2050
								2550
								3050
								4050

Note: combinaisons valables pour matrices jusqu'à V40
Nous consulter pour V de dimension supérieure

25	25	30	35	40	45	50	100	200
550								



3123

V6 a=86° R=0,6 H=100
Max T/m=100

100 mm	70 €
200 mm	108 €
300 mm	146 €
500 mm	192 €
550 mm fr	459 €

3124

V8 a=86° R=0,8 H=100
Max T/m=100

100 mm	70 €
200 mm	108 €
300 mm	146 €
500 mm	192 €
550 mm fr	459 €

3125

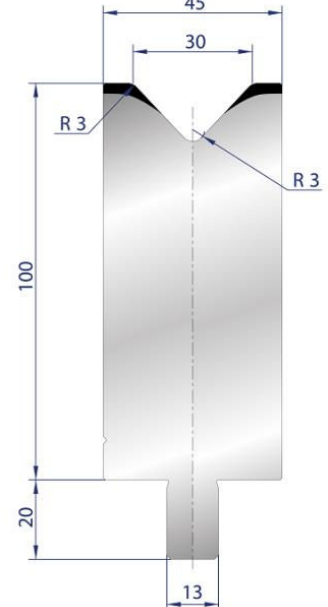
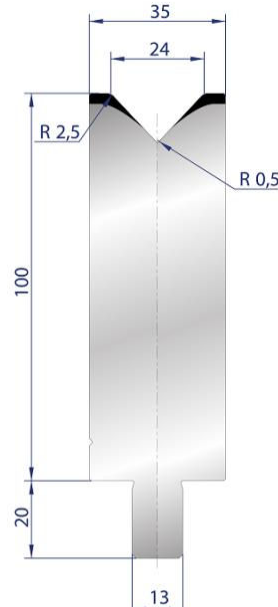
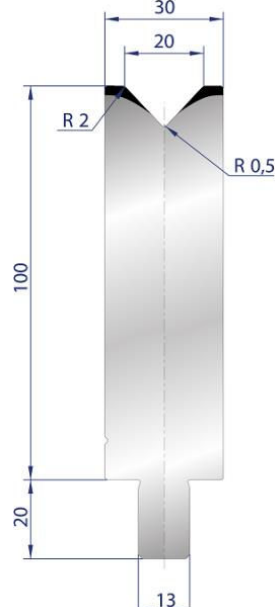
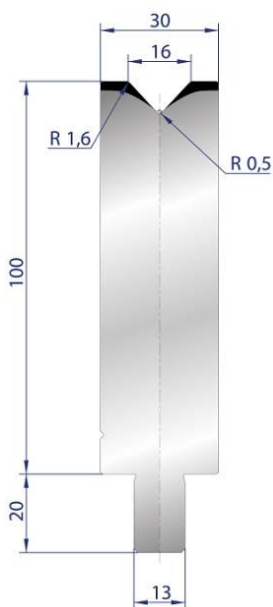
V10 a=86° R=1 H=100
Max T/m=100

100 mm	70 €
200 mm	108 €
300 mm	146 €
500 mm	192 €
550 mm fr	459 €

3126

V12 a=86° R=1 H=100
Max T/m=100

100 mm	73 €
200 mm	115 €
300 mm	155 €
500 mm	205 €
550 mm fr	473 €



3127

V16 a=86° R=1,6 H=100
Max T/m=100

100 mm	76 €
200 mm	120 €
300 mm	166 €
500 mm	221 €
550 mm fr	494 €

3128

V20 a=86° R=2 H=100
Max T/m=100

100 mm	81 €
200 mm	128 €
300 mm	175 €
500 mm	240 €
550 mm fr	517 €

3129

V24 a=86° R=2,5 H=100
Max T/m=100

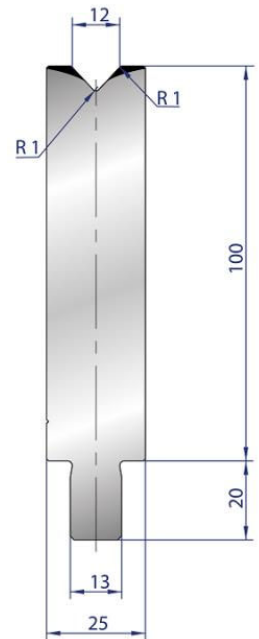
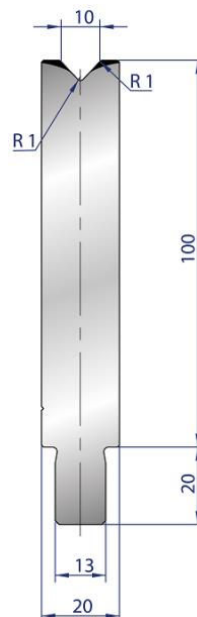
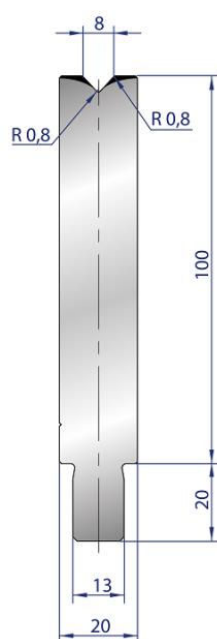
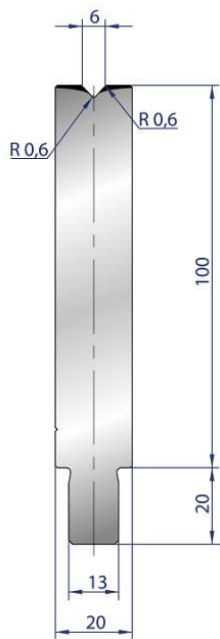
100 mm	84 €
200 mm	133 €
300 mm	184 €
500 mm	253 €
550 mm fr	531 €

3130

V30 a=86° R=3 H=100
Max T/m=100

100 mm	96 €
200 mm	157 €
300 mm	219 €
500 mm	309 €
550 mm fr	586 €

En standard:
Acier C45 traité induction
sur parties travaillantes



3200

V6 a=86° R=0,6 H=100
Max T/m=100

100 mm	79 €
200 mm	123 €
300 mm	167 €
500 mm	225 €
550 mm fr	540 €

3201

V8 a=86° R=0,8 H=100
Max T/m=100

100 mm	79 €
200 mm	123 €
300 mm	167 €
500 mm	225 €
550 mm fr	540 €

3202

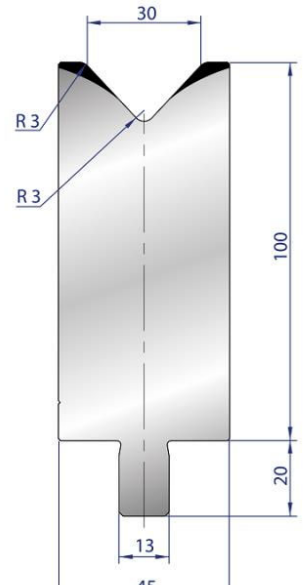
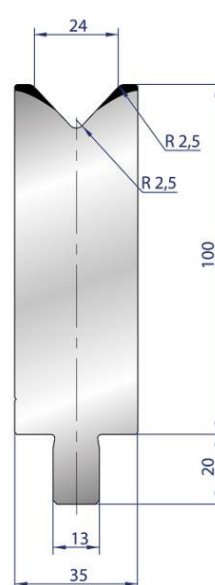
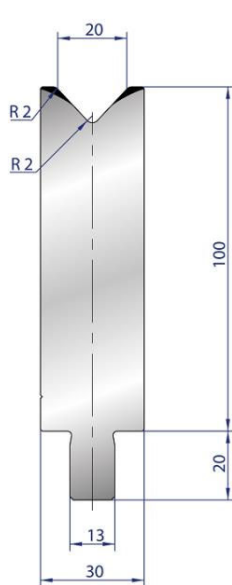
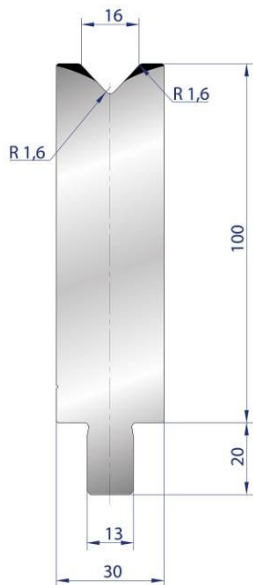
V10 a=86° R=1 H=100
Max T/m=100

100 mm	79 €
200 mm	123 €
300 mm	167 €
500 mm	225 €
550 mm fr	540 €

3203

V12 a=86° R=1 H=100
Max T/m=100

100 mm	81 €
200 mm	128 €
300 mm	175 €
500 mm	240 €
550 mm fr	555 €



3204

V16 a=86° R=1,6 H=100
Max T/m=100

100 mm	86 €
200 mm	137 €
300 mm	189 €
500 mm	262 €
550 mm fr	580 €

3205

V20 a=86° R=2 H=100
Max T/m=100

100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	296 €
550 mm fr	607 €

3215

V24 a=86° R=2,5 H=100
Max T/m=100

100 mm	92 €
200 mm	152 €
300 mm	210 €
500 mm	296 €
550 mm fr	623 €

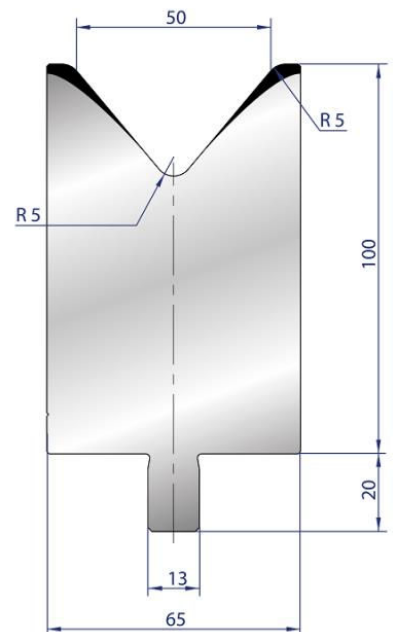
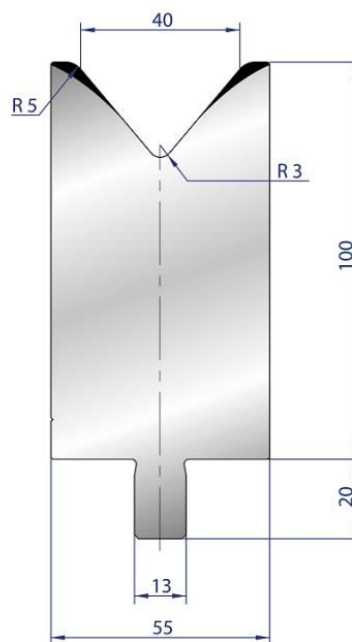
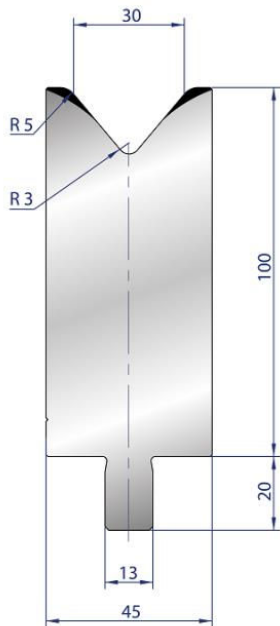
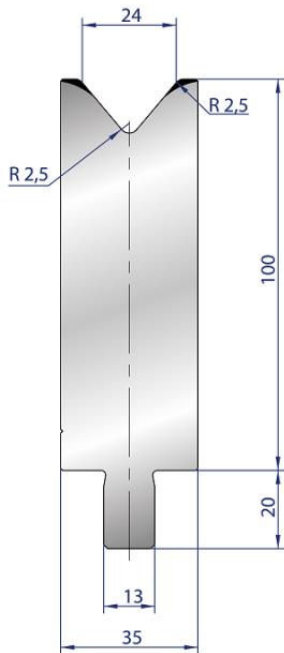
3216

V30 a=86° R=3 H=100
Max T/m=100

100 mm	105 €
200 mm	178 €
300 mm	251 €
500 mm	363 €
550 mm fr	690 €

25	25	30	35	40	45	50	100	200

En standard:
Acier 42CrMo4



3231

V24 a=80° R=2.5 H=100
Max T/m=100
(V W24/80)

100 mm	92 €
200 mm	152 €
300 mm	210 €
500 mm	296 €
550 mm fr	623 €

3232

V30 a=80° R=3 H=100
Max T/m=100
(V W30/80)

100 mm	105 €
200 mm	178 €
300 mm	251 €
500 mm	363 €
550 mm fr	690 €

3233

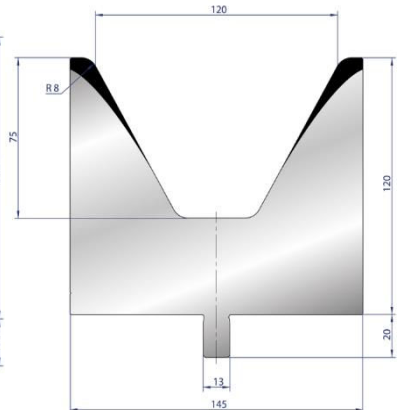
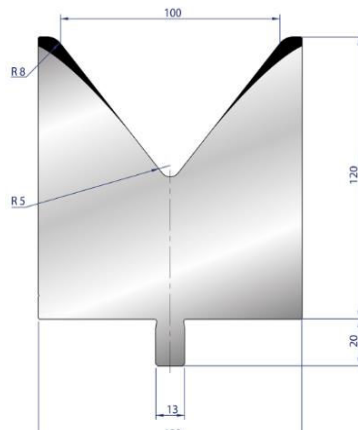
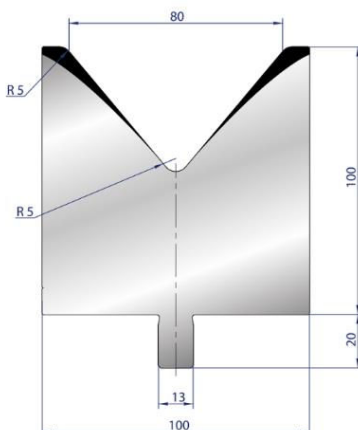
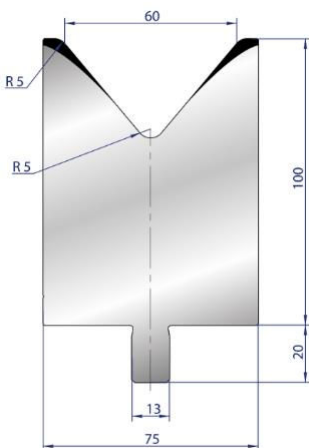
V40 a=80° R=5 H=100
Max T/m=100
(V W40/80)

100 mm	110 €
200 mm	188 €
300 mm	264 €
500 mm	388 €
550 mm fr	723 €

3234

V50 a=80° R=5 H=100
Max T/m=100
(V W50/80)

100 mm	140 €
200 mm	237 €
300 mm	334 €
500 mm	488 €
550 mm fr	891 €



V60 a=80° R=5 H=100		
Max T/m= 100 150		
REF:	3133	3219
ACIER:	C45	42CrMo4
		(V W60/80)
100 mm	133 €	160 €
200 mm	220 €	214 €
300 mm	309 €	320 €
500 mm	448 €	526 €
550 mm fr	793 €	931 €

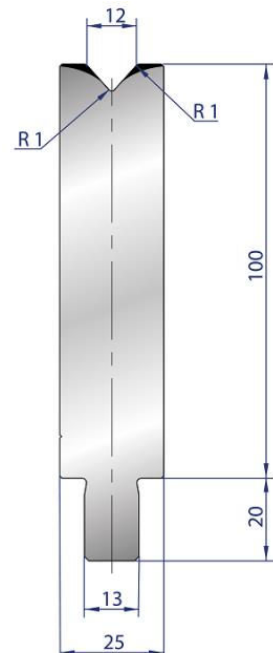
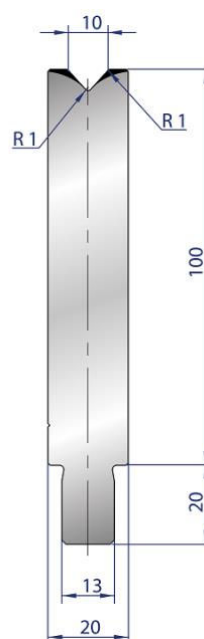
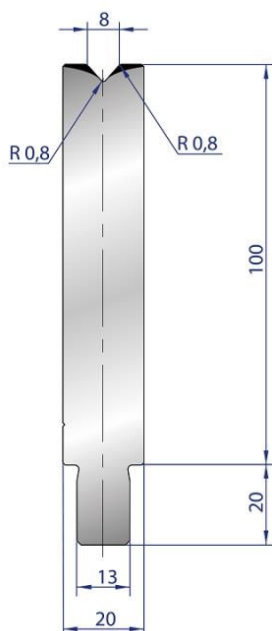
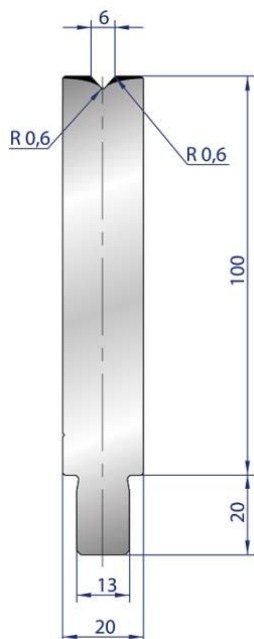
V80 a=80° R=5 H=100		
Max T/m= 100 150		
REF:	3134	3221
ACIER:	C45	42CrMo4
		(V W80/80)
100 mm	146 €	175 €
200 mm	253 €	270 €
300 mm	358 €	395 €
500 mm	525 €	NA
550 mm fr	933 €	1098 €

V100 a=80° R=8 H=120		
Max T/m= 100 150		
REF:	3135	3223
ACIER:	C45	42CrMo4
		(V W100/80)
100 mm	174 €	175 €
200 mm	307 €	333 €
300 mm	438 €	NA
500 mm	658 €	NA
550 mm fr	1169 €	1426 €

V120 a=60° R=8 H=120	
Max T/m=160	
REF:	3224
ACIER:	42CrMo4
	(V W120/80)
100 mm	314 €
200 mm	501 €
300 mm	NA
500 mm	NA
550 mm fr	1761 €

Matrices en acier 42CrMo4.

Références 3133 - 3134 - 3135 en acier C45

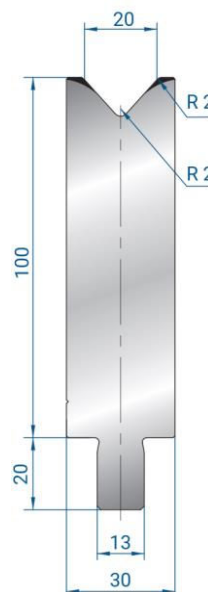
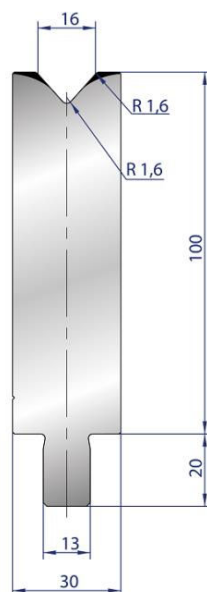
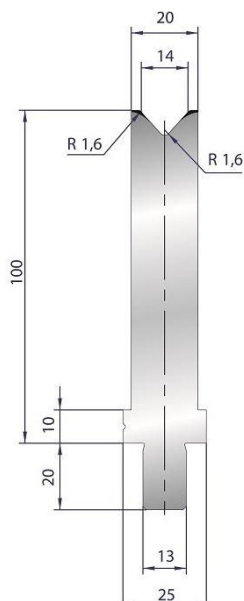


3225	
V6 a=84° R=0,6 H=100 Max T/m=130	
100 mm	79 €
200 mm	123 €
300 mm	167 €
500 mm	225 €
550 mm fr	540 €
V W6/84°	

3226	
V8 a=84° R=0,8 H=100 Max T/m=100	
100 mm	79 €
200 mm	123 €
300 mm	167 €
500 mm	225 €
550 mm fr	540 €
V W8/84°	

3227	
V10 a=84° R=3 H=100 Max T/m=100	
100 mm	79 €
200 mm	123 €
300 mm	167 €
500 mm	225 €
550 mm fr	540 €
V W10/84°	

3228	
V12 a=84° R=1 H=100 Max T/m=100	
100 mm	81 €
200 mm	128 €
300 mm	175 €
500 mm	240 €
550 mm fr	555 €
V W12/84°	



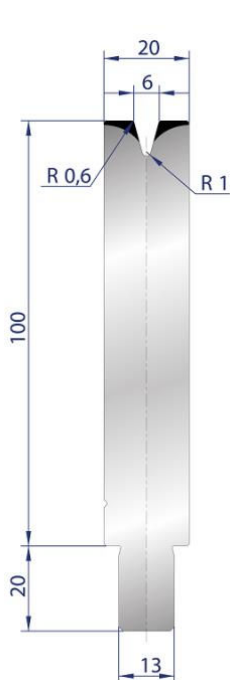
3244	
V14 a=84° R=1,6 H=120 Max T/m=160	
100 mm	100 €
200 mm	169 €
300 mm	238 €
500 mm	344 €
550 mm fr	661 €
V/S W14/84°	

3229	
V16 a=120° R=1,6 H=120 Max T/m=160	
100 mm	86 €
200 mm	137 €
300 mm	189 €
500 mm	262 €
550 mm fr	580 €
V W16/84°	

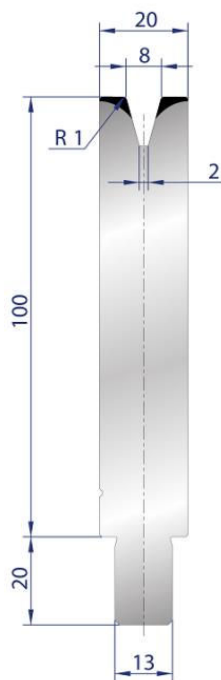
3230	
V20 a=84° R=2 H=120 Max T/m=160	
100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	283 €
550 mm fr	607 €
Compatible EV W20/84°	

25	25	30	35	40	45	50	100	200
550								

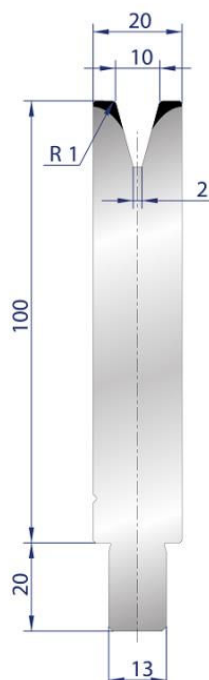
En standard:
Acier 42CrMo4



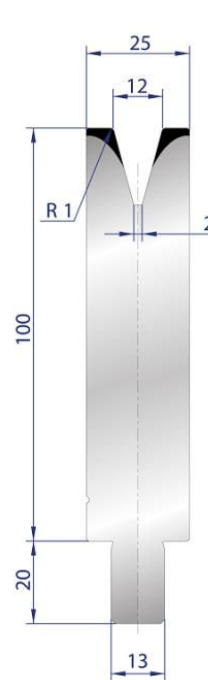
3136	
V6 a=30° R=0,6 H=100 Max T/m=50	
100 mm	81 €
200 mm	130 €
300 mm	175 €
500 mm	240 €
550 mm fr	517 €



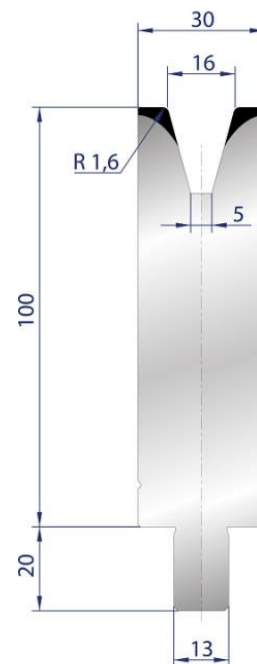
3137	
V8 a=30° R=1 H=100 Max T/m=50	
100 mm	81 €
200 mm	130 €
300 mm	175 €
500 mm	240 €
550 mm fr	517 €



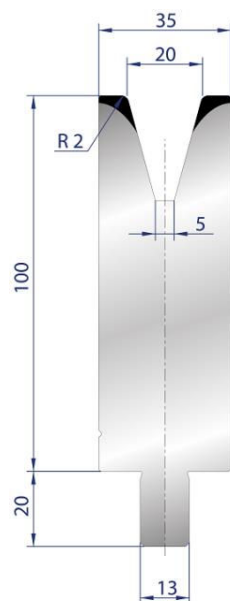
3138	
V10 a=30° R=1 H=100 Max T/m=50	
100 mm	81 €
200 mm	130 €
300 mm	175 €
500 mm	240 €
550 mm fr	517 €



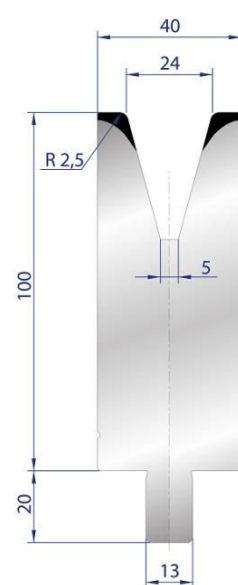
3139	
V12 a=30° R=1 H=100 Max T/m=56	
100 mm	84 €
200 mm	133 €
300 mm	184 €
500 mm	253 €
550 mm fr	531 €



3140	
V16 a=30° R=1,6 H=100 Max T/m=68	
100 mm	87 €
200 mm	140 €
300 mm	194 €
500 mm	270 €
550 mm fr	552 €

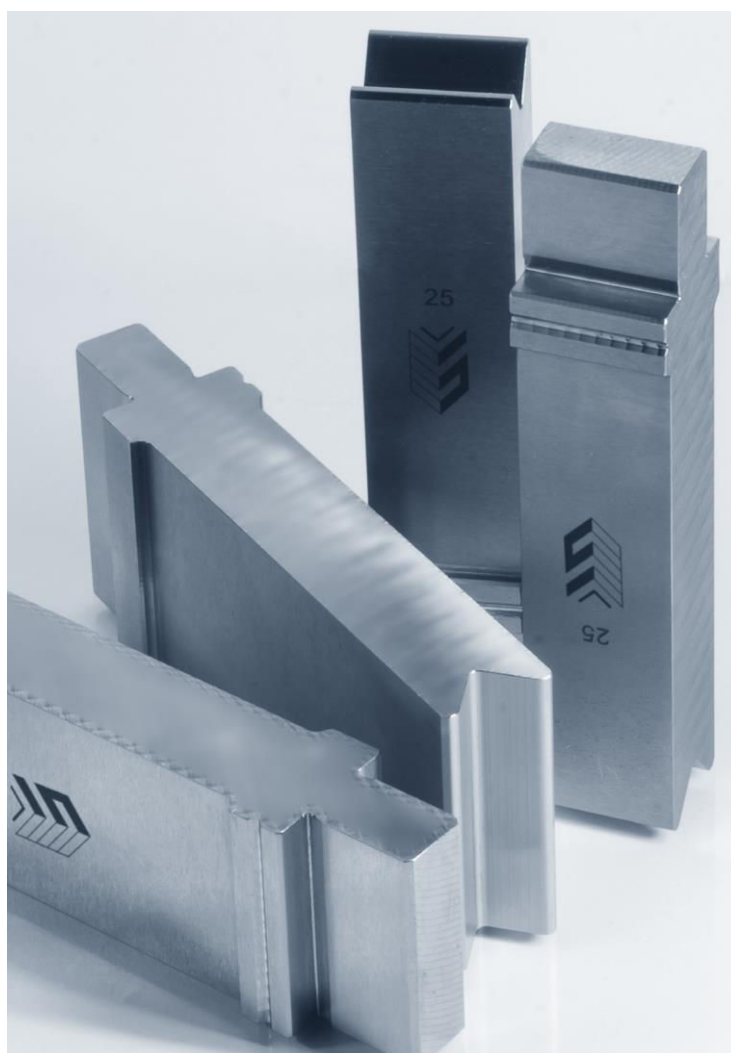


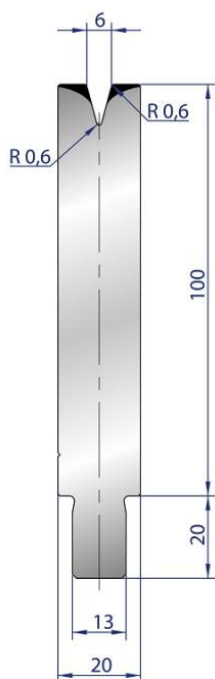
3141	
V20 a=30° R=2 H=100 Max T/m=50	
100 mm	90 €
200 mm	147 €
300 mm	206 €
500 mm	289 €
550 mm fr	573 €



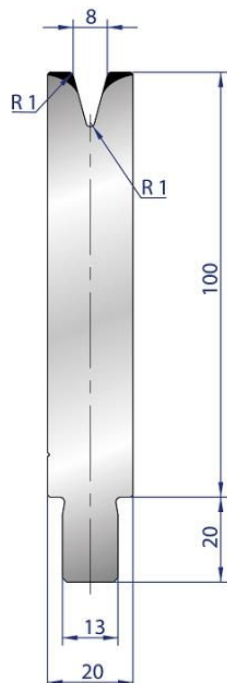
3142	
V24 a=30° R=2,5 H=100 Max T/m=55	
100 mm	96 €
200 mm	158 €
300 mm	220 €
500 mm	313 €
550 mm fr	601 €

Matrices en acier
C45 traité induction
sur parties travaillantes

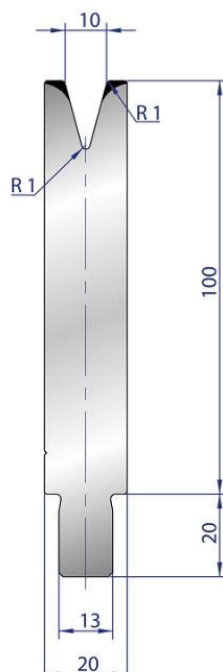




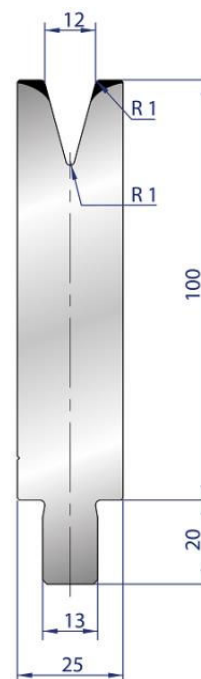
3206	
V6 a=30° R=0,6 H=100 Max T/m=60	
100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	283 €
550 mm fr	560 €
V 001	



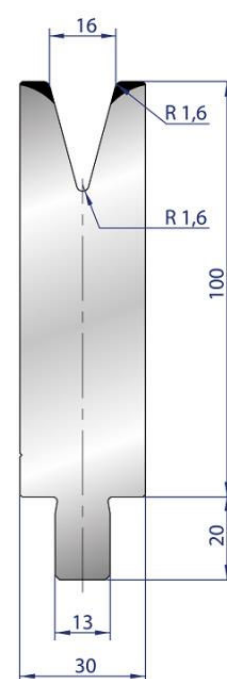
3207	
V8 a=30° R=1 H=100 Max T/m=50	
100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	283 €
550 mm fr	560 €
V 002	



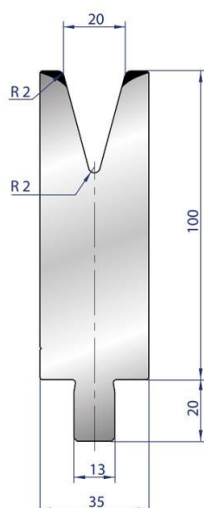
3208	
V10 a=30° R=1 H=100 Max T/m=50	
100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	283 €
550 mm fr	560 €
V 003	



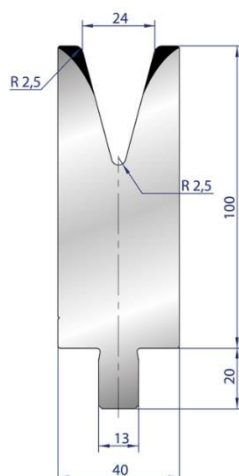
3209	
V12 a=30° R=1 H=100 Max T/m=56	
100 mm	90 €
200 mm	147 €
300 mm	206 €
500 mm	289 €
550 mm fr	580 €
V 004	



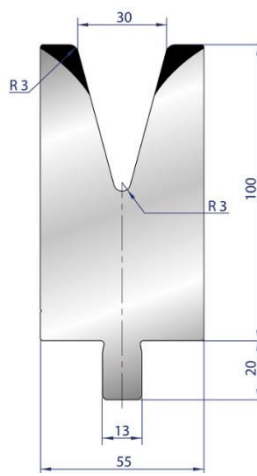
3210	
V16 a=30° R=1,6 H=100 Max T/m=68	
100 mm	93 €
200 mm	156 €
300 mm	216 €
500 mm	308 €
550 mm fr	611 €
V 005	



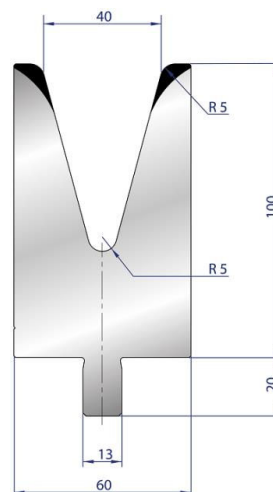
3211	
V20 a=30° R=2 H=100 Max T/m=50	
100 mm	99 €
200 mm	166 €
300 mm	233 €
500 mm	333 €
550 mm fr	636 €
V 006	



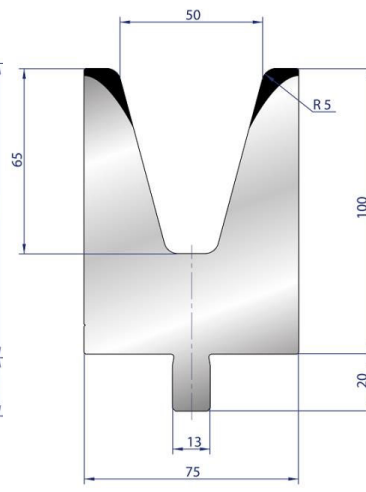
3212	
V24 a=30° R=2,5 H=100 Max T/m=55	
100 mm	104 €
200 mm	174 €
300 mm	246 €
500 mm	358 €
550 mm fr	674 €
V 007	



3213	
V30 a=30° R=3 H=100 Max T/m=85	
100 mm	126 €
200 mm	218 €
300 mm	310 €
500 mm	464 €
550 mm fr	774 €
V W30/30°	



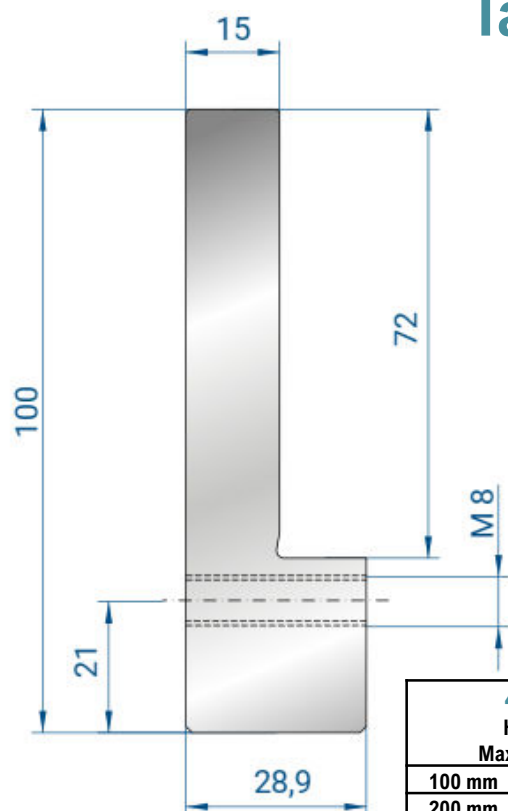
3214	
V40 a=30° R=5 H=100 Max T/m=73	
100 mm	154 €
200 mm	263 €
300 mm	373 €
500 mm	550 €
550 mm fr	1055 €
V W40/30°	



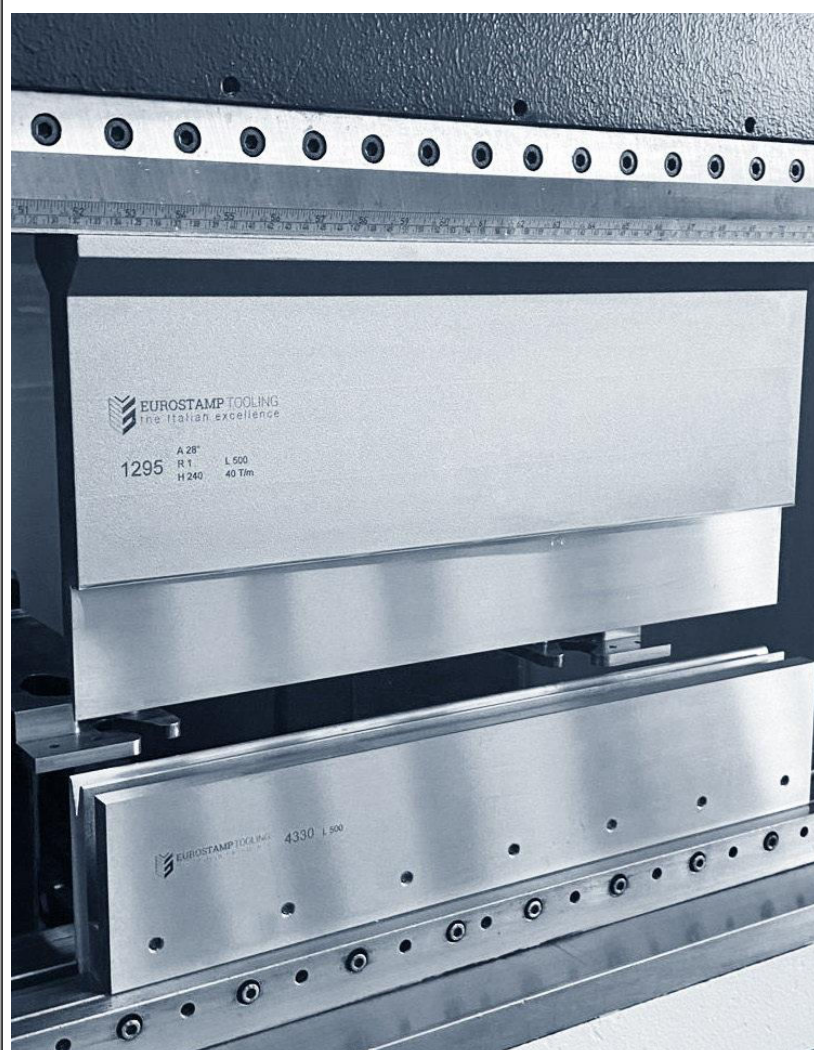
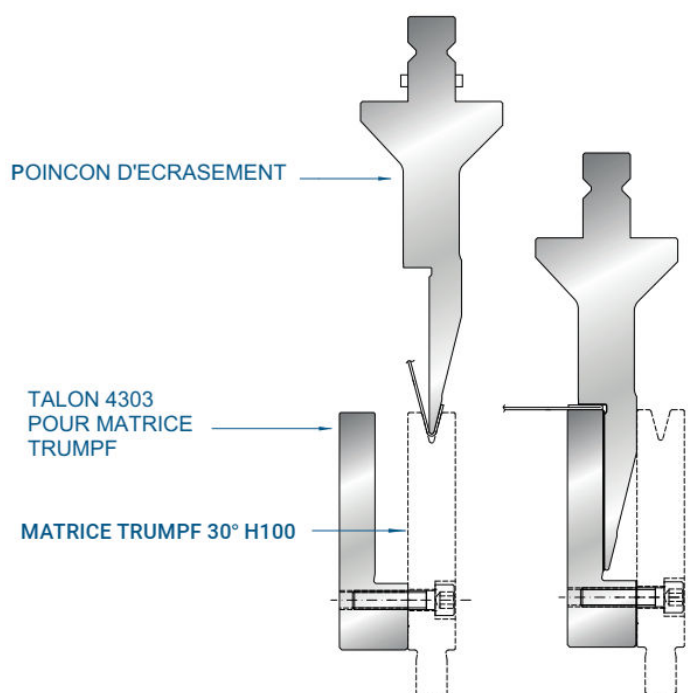
3235	
V50 a=30° R=5 H=100 Max T/m=100	
100 mm	181 €
200 mm	310 €
300 mm	439 €
500 mm	651 €
550 mm fr	1243 €
V W50/30°	

En standard:
Acier 42CrMo4

Talon d'écrasement



4330 H=100 Max T/m=50	
100 mm	104 €
200 mm	180 €
300 mm	249 €
500 mm	344 €
550 mm fr	598 €

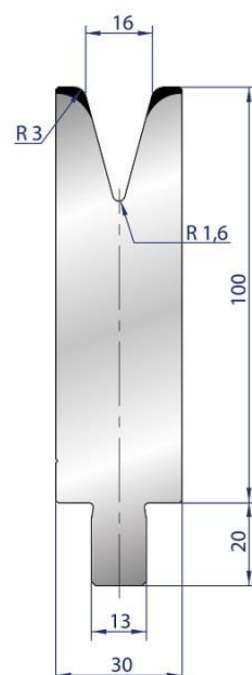
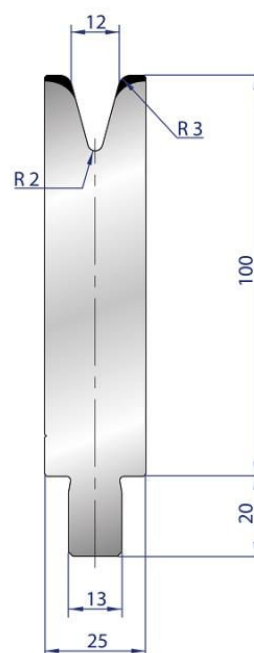
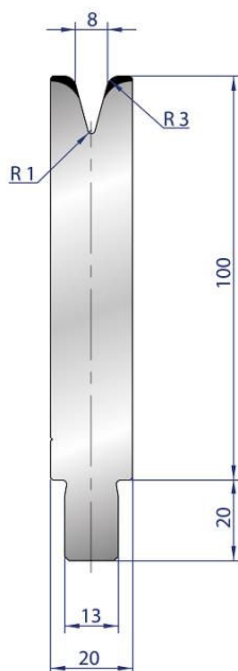
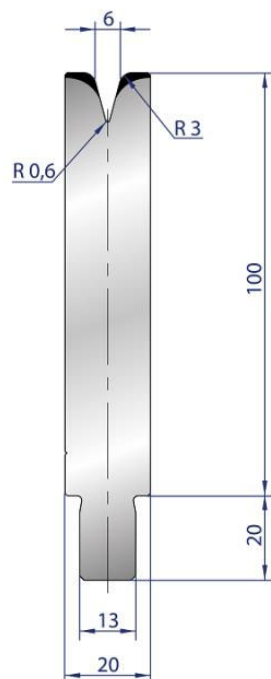


8108

Option perçage/taraudage sur matrice compatible 30°:

3206 - 3207 - 3208 - 3209 - 3210

25-40 mm	12 € (1 Perçage)
45-100 mm	15 € (2 perçages)
100 mm	15 € (2 perçages)
200 mm	25 € (4 perçages)
300 mm	35 € (6 perçages)
500 mm	48 € (7 perçages)
550 mm	83 € (15 perçages)



3236	
V6 a=30° R=3 H=100 Max T/m=60	
100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	283 €
550 mm fr	560 €
V 001 R3	

3237	
V8 a=30° R=3 H=100 Max T/m=50	
100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	283 €
550 mm fr	560 €
V 002 R3	

3238	
V10 a=30° R=3 H=100 Max T/m=50	
100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	283 €
550 mm fr	560 €
V 003 R3	

3239	
V12 a=30° R=3 H=100 Max T/m=56	
100 mm	90 €
200 mm	147 €
300 mm	206 €
500 mm	289 €
550 mm fr	580 €
V 004 R3	

3240	
V16 a=30° R=3 H=100 Max T/m=68	
100 mm	93 €
200 mm	156 €
300 mm	216 €
500 mm	308 €
550 mm fr	611 €
V 005 R3	



**Supplément pour
coupe à longueur:
50€ par coupe.**

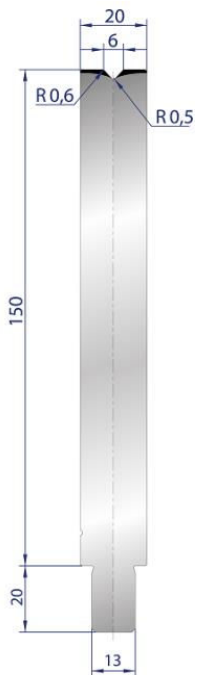
**Option nitruration
disponible sur
demande.**

**Option matrice
« slim » sur
demande.**

**En standard:
Acier 42CrMo4**

25	25	30	35	40	45	50	100	200	

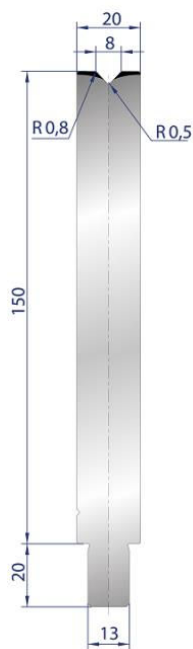
550



3143

V6 a=86° R=0,6 H=150
Max T/m=100

100 mm	73 €
200 mm	115 €
300 mm	156 €
500 mm	205 €
550 mm fr	528 €



3144

V8 a=86° R=0,6 H=150
Max T/m=100

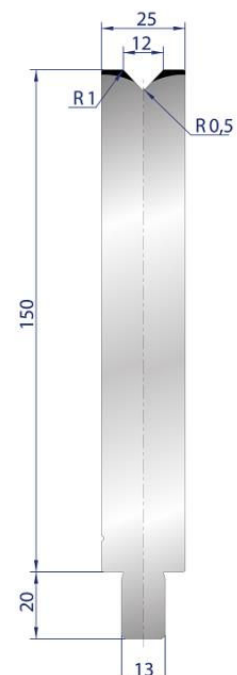
100 mm	73 €
200 mm	115 €
300 mm	156 €
500 mm	205 €
550 mm fr	528 €



3145

V10 a=86° R=0,6 H=150
Max T/m=100

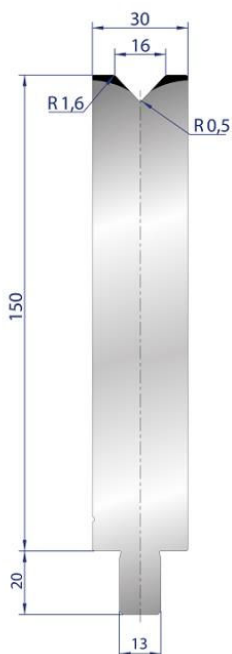
100 mm	73 €
200 mm	115 €
300 mm	156 €
500 mm	205 €
550 mm fr	528 €



3146

V12 a=86° R=0,6 H=150
Max T/m=100

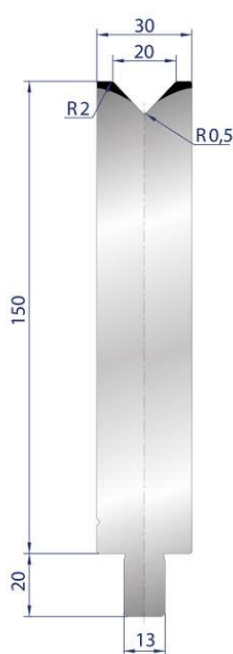
100 mm	79 €
200 mm	123 €
300 mm	169 €
500 mm	228 €
550 mm fr	556 €



3147

V16 a=86° R=0,6 H=150
Max T/m=100

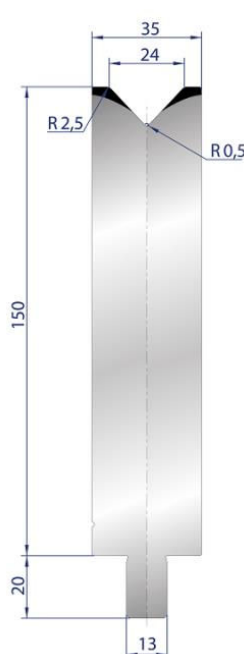
100 mm	83 €
200 mm	131 €
300 mm	180 €
500 mm	245 €
550 mm fr	577 €



3148

V20 a=86° R=0,6 H=150
Max T/m=100

100 mm	85 €
200 mm	135 €
300 mm	187 €
500 mm	258 €
550 mm fr	593 €

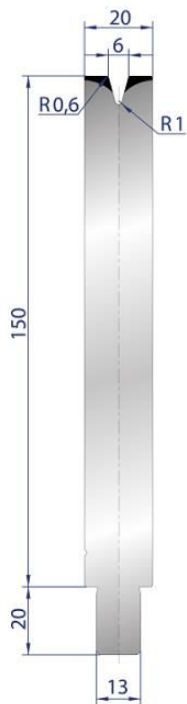


3149

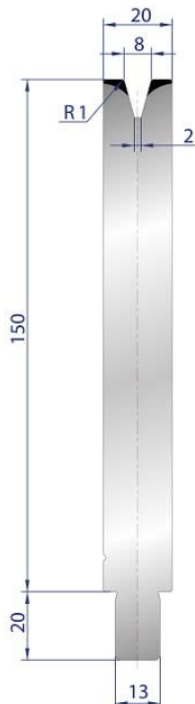
V24 a=86° R=0,6 H=150
Max T/m=100

100 mm	89 €
200 mm	144 €
300 mm	201 €
500 mm	283 €
550 mm fr	622 €

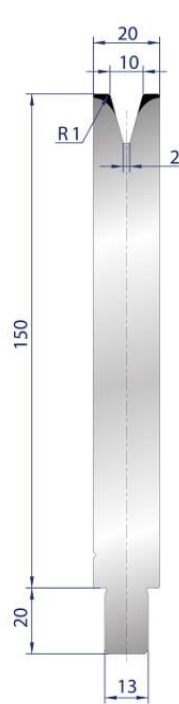
En standard:
Acier C45 traité induction
sur parties travaillantes



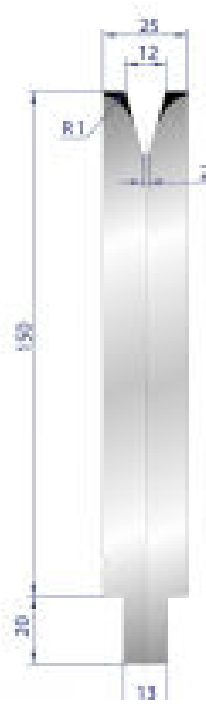
3150	
V6 a=30° R=0,6 H=150 Max T/m=50	
100 mm	85 €
200 mm	135 €
300 mm	187 €
500 mm	258 €
550 mm fr	593 €



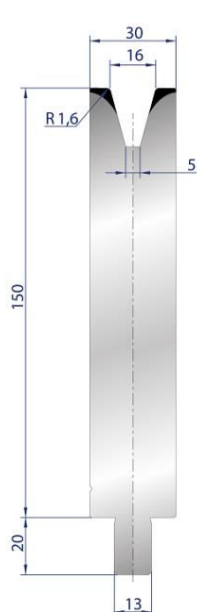
3151	
V8 a=30° R=1 H=150 Max T/m=40	
100 mm	85 €
200 mm	135 €
300 mm	187 €
500 mm	258 €
550 mm fr	593 €



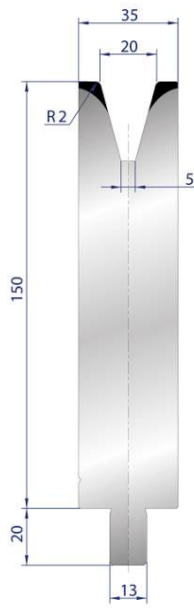
3152	
V10 a=30° R=1 H=150 Max T/m=40	
100 mm	85 €
200 mm	135 €
300 mm	187 €
500 mm	258 €
550 mm fr	593 €



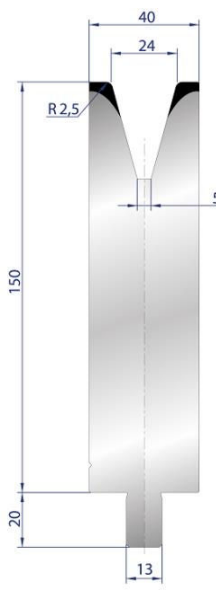
3153	
V12 a=30° R=1 H=150 Max T/m=50	
100 mm	87 €
200 mm	140 €
300 mm	194 €
500 mm	270 €
550 mm fr	607 €



3154	
V16 a=30° R=1,6 H=150 Max T/m=45	
100 mm	90 €
200 mm	147 €
300 mm	206 €
500 mm	289 €
550 mm fr	628 €



3155	
V20 a=30° R=2 H=150 Max T/m=50	
100 mm	93 €
200 mm	156 €
300 mm	216 €
500 mm	308 €
550 mm fr	650 €



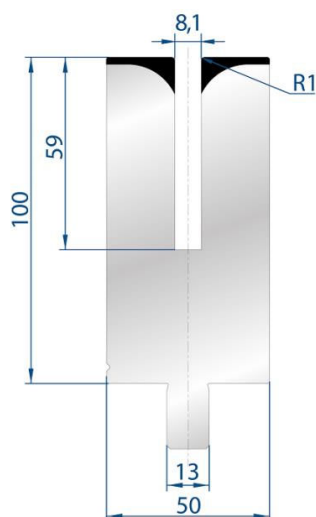
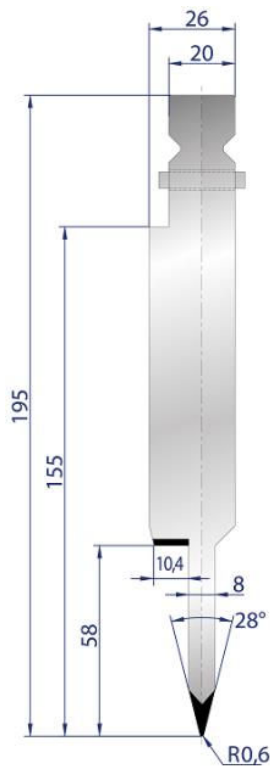
3156	
V24 a=30° R=2,5 H=150 Max T/m=50	
100 mm	98 €
200 mm	164 €
300 mm	226 €
500 mm	324 €
550 mm fr	671 €



Matrices en acier
C45 traité induction
sur parties travaillantes

25	25	30	35	40	45	50	100	200

550



1249

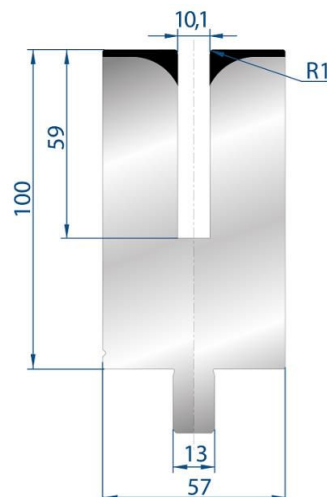
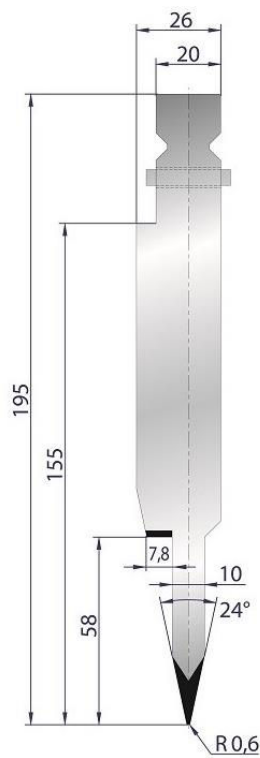
Poinçon à 28° **Max T/m=80**
Pour tôle acier 1,2 mm maxi
Se monte avec la matrice **3157**

500 mm	550 mm fr	550mm fr SC
567 €	1179 €	1579 €

3157

Matrice à écraser U= 8,1 mm **Max T/m=50**

500 mm	550 mm
479 €	855 €



1250

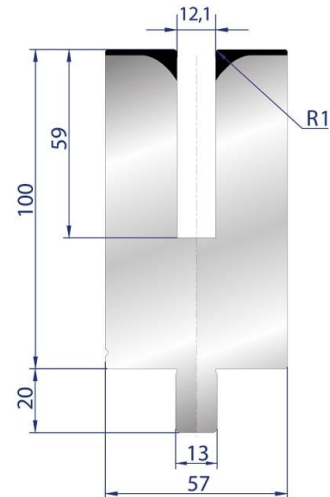
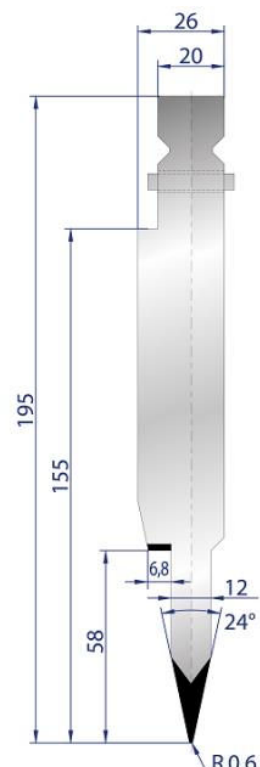
Poinçon à 24° **Max T/m=80**
Pour tôle acier 1,5 mm maxi
Se monte avec la matrice **3174**

500 mm	550 mm fr	550mm fr SC
610 €	1253 €	1653 €

3174

Matrice à écraser U= 10,1 mm **Max T/m=50**

500 mm	550 mm
508 €	906 €



1251

Poinçon à 24° **Max T/m=80**
Pour tôle acier 1,5 mm maxi
Se monte avec la matrice **3175**

500 mm	550 mm fr	550mm fr SC
610 €	1253 €	1653 €

3175

Matrice à écraser U= 12,1 mm **Max T/m=50**

500 mm	550 mm
508 €	906 €

