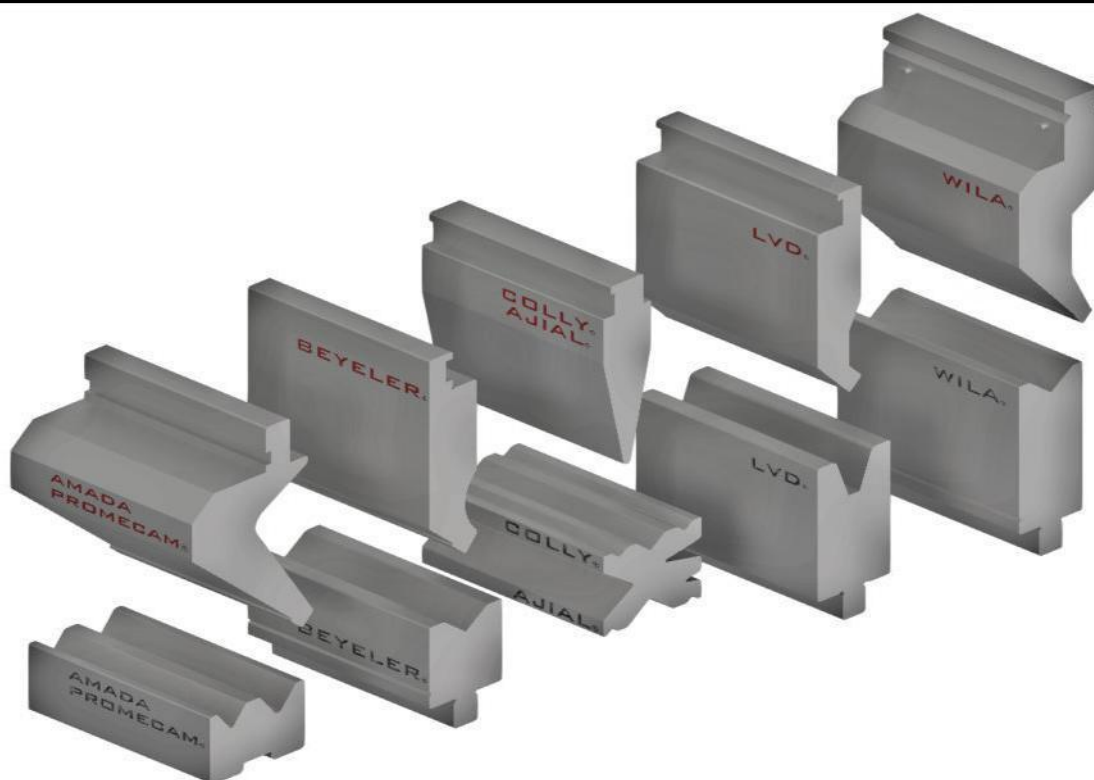




Solutions for Metalworking

WWW.TCPUNZONES.COM



AMADA PROMECAM[®] system

WILA TRUMPF[®] system

BEYELER[®] system

LVD WILA[®] system

COLLY[®] AJIAL[®] AXIAL[®] system

ACCESORIOS

ÚTILES para PLEGADORA y
CIZALLA

PRESS BRAKE TOOLS & SHEAR
BLADES

INDICE INDEX

TABLA DE PLEGADO - BENDING SCHEME	pág	3
ADAPTADORES FIJOS - RETROFITTING	pág	4
ADAPTADORES - ADAPTERS	pág	5
INTERMEDIOS - INTERMEDIATES	pág	10
MORDAZAS - CLAMPS	pág	11
ADAPTADORES INFERIORES - LOWER ADAPTERS	pág	12

AMADA PROMECAM

PUNZONES - PUNCHES	pág	13
SOPORTES DE CUCHILLA - BLADE HOLDERS	pág	26
NUEVOS PUNZONES - NEW PUNCHES	pág	27
MATRICES - DIES	pág	28
SOPORTES - HOLDERS	pág	37
INSERTOS MATRICES - INSERT DIES	pág	38
HERRAMIENTAS DE CHAFADO - FLATTENING TOOL	pág	39

WILA TRUMPF

PULSADORES CAMBIO RÁPIDO - FAST CHANGE BOTTOM	pág	42
PUNZONES - PUNCHES	pág	43
SOPORTES DE CUCHILLA - BLADE HOLDERS	pág	52
MATRICES - DIES	pág	53
HERRAMIENTAS DE CHAFADO - FLATTENING TOOL	pág	70

BEYELER

PUNZONES - PUNCHES	pág	71
SOPORTES DE CUCHILLA - BLADE HOLDERS	pág	77
MATRICES - DIES	pág	78
HERRAMIENTAS DE CHAFADO - FLATTENING TOOL	pág	81

LVD WILA

PUNZONES - PUNCHES	pág	82
SOPORTES DE CUCHILLA - BLADE HOLDERS	pág	85
MATRICES - DIES	pág	86
HERRAMIENTAS DE CHAFADO - FLATTENING TOOL	pág	98
PUNZONES LVD WILA - PUNCHES LVD WILA	pág	99
HERRAMIENTAS DE CHAFADO LVD WILA - FLATTENING TOOL LVD WILA	pág	101

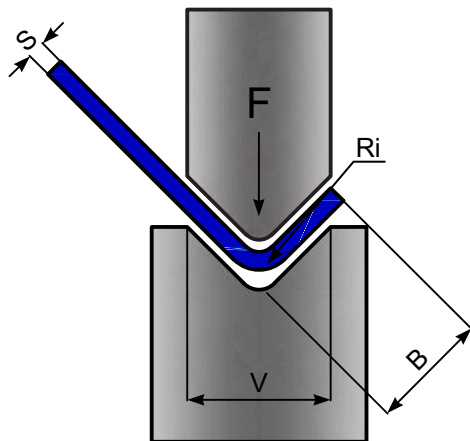
COLLY AJIAL / AXIAL

PUNZONES - PUNCHES	pág	102
MATRICES - DIES	pág	106

ACCESORIOS ACCESSOIRES

Z CONTENEDORES E INSERTOS		
Z TOOL HOLDERS & INSERTS	pág	111
SOPORTES, INSERTOS DE RADIO Y CHAFADO		
HOLDER, RADIUS INSERTS AND FLATTENING INSERTS	pág	113
CONTENEDORES E INSERTOS EN POLIURETANO		
HOLDERS FOR INTERCHANGEABLE POLYURETHANE INSERTS	pág	116
CONTENEDORES PARA INSERTOS INTERCAMBIABLES EN NYLON		
HOLDERS FOR INTERCHANGEABLE NYLON INSERTS	pág	117
ARMARIO PORTA-UTILLAJE		
TOOLING CABINET	pág	119
MORDAZAS CAMBIO RÁPIDO		
QUICK CHANGE CLAMPS	pág	120
CUCHILLAS CIZALLA		
SHEAR BLADES	pág	121

CÁLCULO DE FUERZA PARA PLEGADO AL AIRE **FORCE CALCULATION FOR AIR BENDING**



S	Espesor de chapa - mm Sheet thickness - mm
V	Obertura de la V V opening
F	Fuerza en T/m Force T/m
V	Obertura mínima Shortest edge
Ri	Radio interno Inside radius
R	Aluminio 20 - 25 Kg/mm ² Alluminium 20 - 25 Kg/mm ²
R	Hierro 40 - 45 Kg/mm ² Mild steel 20 - 25 Kg/mm ²
R	Ac. inox 60 - 70 Kg/mm ² Stainless steel 60 - 70 Kg/mm ²

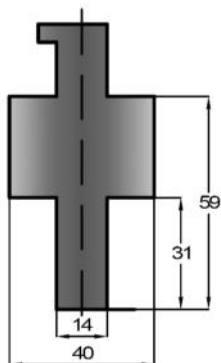
$$F = \frac{S^2 \times 2 \times R}{1.4 \times V} = \dots \text{ Tn / m}$$

TABLA DE PLEGADO AL AIRE - para plegado 90° con chapa R= 45 Kg/mm ² Air bending chart - for 90° bending, resistance sheet R= 45 Kg/mm ²																		
S	6	8	10	12	16	20	25	32	40	50	63	80	100	125	160	200	250	V
	4	5.5	7	8.5	11	14	17.5	22	28	35	45	55	71	89	113	140	175	B
	1	1.3	1.6	2	2.6	3.3	4	5	6.5	8	10	13	16	20	26	33	41	Ri
mm																		
0.5	3																	
0.6	4	4																
0.8	7	5	4															
1	11	8	7	6														
1.2	16	12	10	8	6													
1.5		17	15	13	9	8												
2			27	22	17	13	11											
2.5				35	26	21	11	13										
3					38	30	24	19	15									
4						54	42	34	27	21								
5							67	52	42	33	26							
6								75	60	48	38	30						
8									107	85	68	53	43					
10										134	105	85	67	53				
12											153	120	95	78	60			
15												188	150	120	95	75		
20													270	215	170	135	108	F

T/m

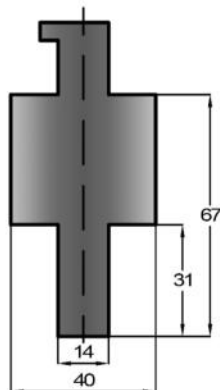
COD 40.000

100 T/m



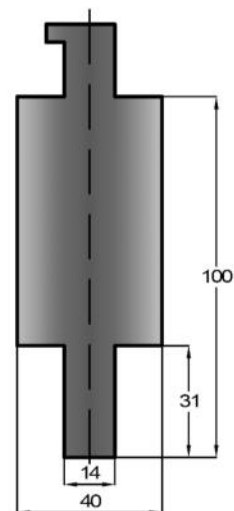
COD 40.010

100 T/m



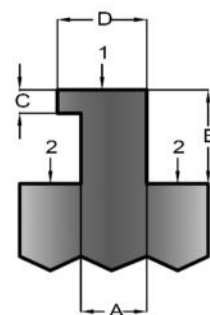
COD 40.020

100 T/m



**INDICAR MEDIDAS DE CABEZA Y PUNTOS DE PRESIÓN
DIMENSIONS OF HEAD AND PRESSURE POINTS**

A		
B		
C		
D		

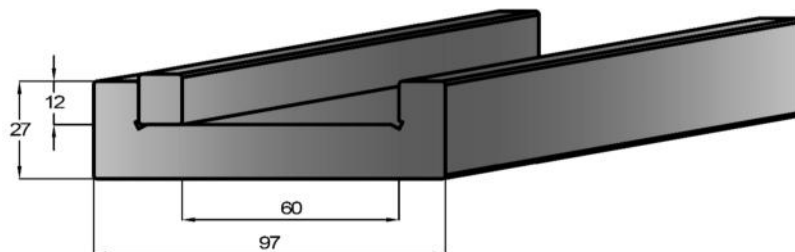
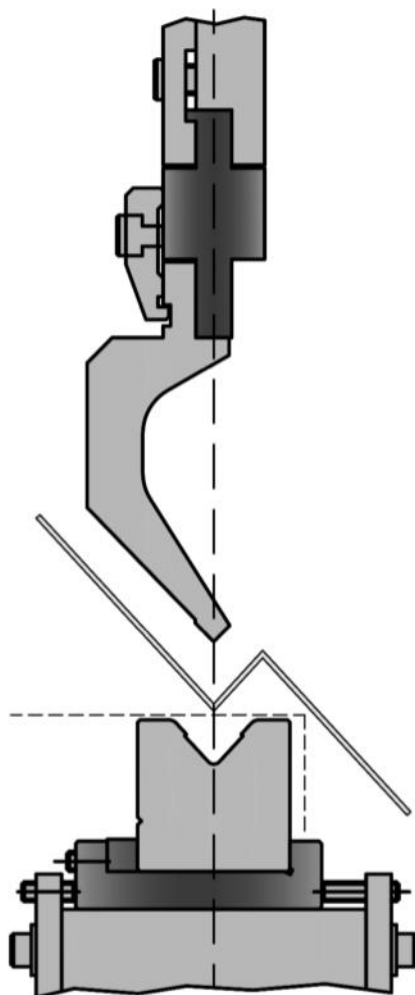


COD 90.100

L=2100

COD 90.099

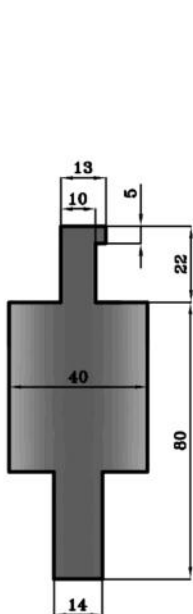
L=1050/SECCIONADO



LVD

COD 41.430

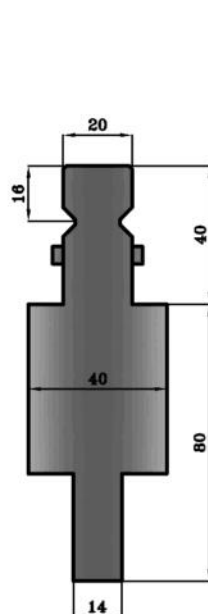
L = 150mm



WILA/TRUMPF

COD 41.910

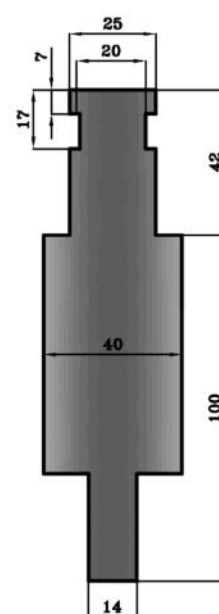
L = 150mm



WEINBRENNER

COD 42.150

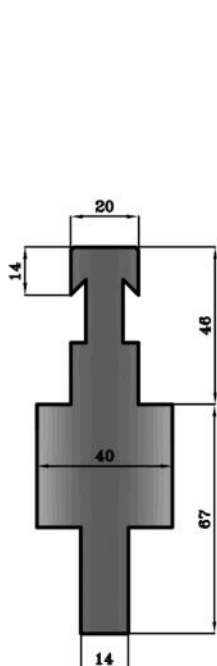
L = 150mm



BEYELER-R

COD 41.920

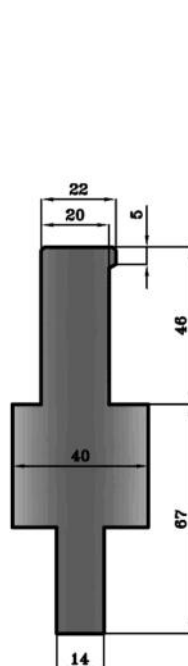
L = 150mm



BEYELER-S

COD 41.930

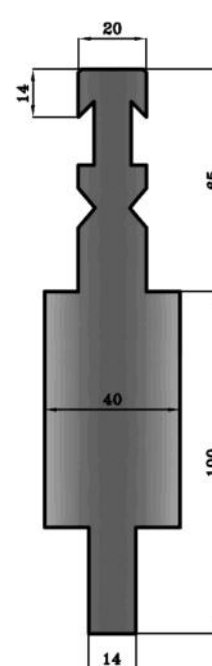
L = 150mm



BEYELER-RFA

COD 41.140

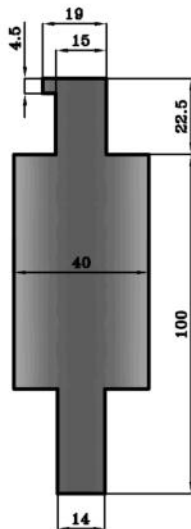
L = 150mm



CBC

COD 42.160

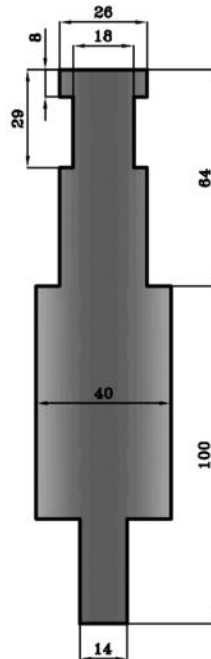
L = 150mm



EHT

COD 42.170

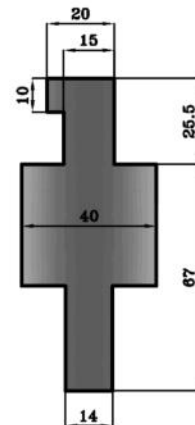
L = 150mm



DURMAZLAR

COD 42.180

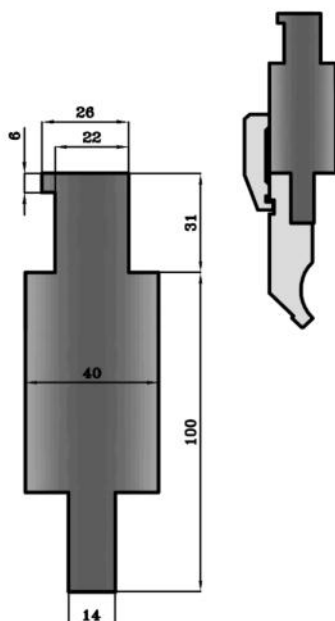
L = 150mm



DARLEY

COD 42.290

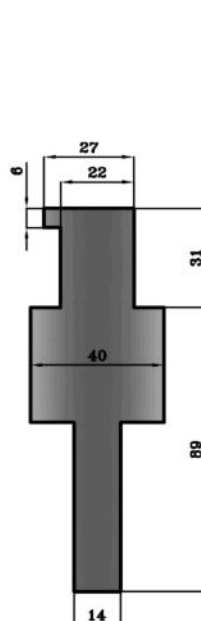
L = 150mm



BAYKAL

COD 42.720

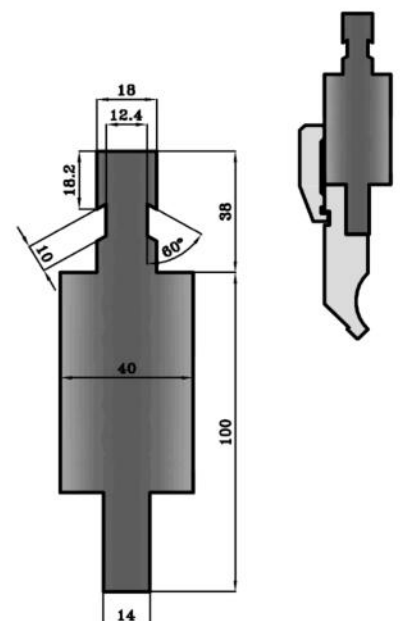
L = 150mm



COLGAR

COD 42.730

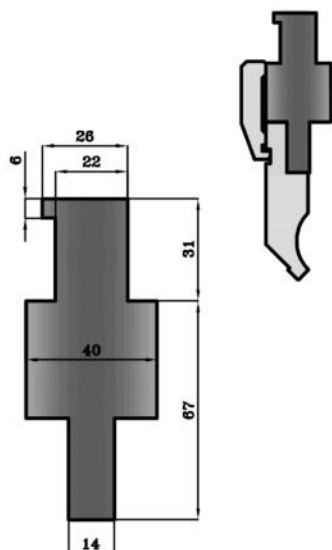
L = 150mm



DARLEY

COD 42.731

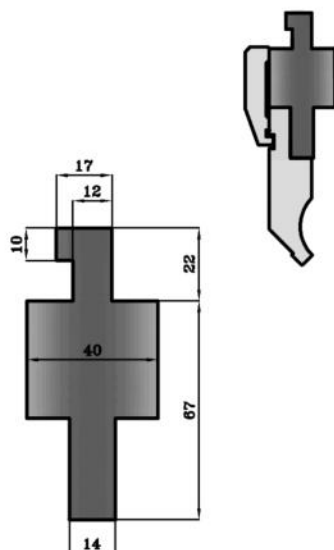
L = 150mm



HACO

COD 42.732

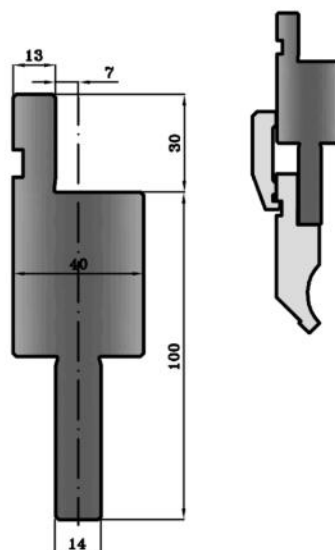
L = 150mm



INETERMEDIO NO AJUSTABLE
NOT ADJUSTABLE INTERMEDIATE

COD 42.733

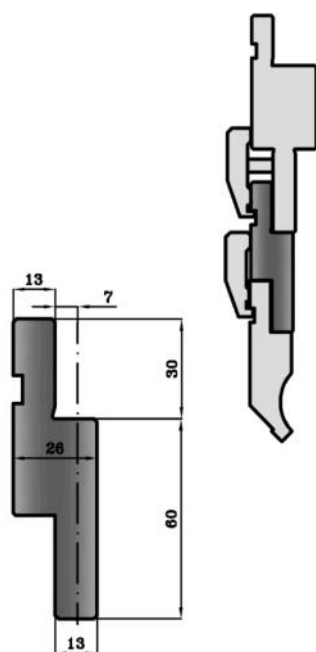
L = 150mm



PROLONGACIONES EXTENSION

COD 42.734

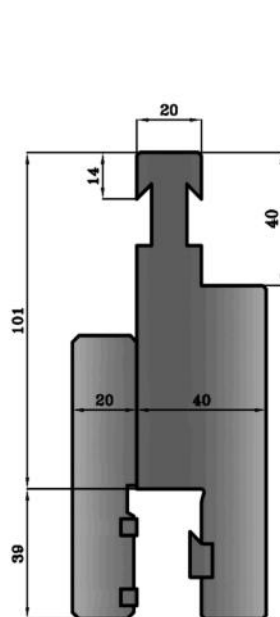
L = 150mm



PROLONGACIONES BEYELER-R BEYELER-R EXTENSION

COD 42.735

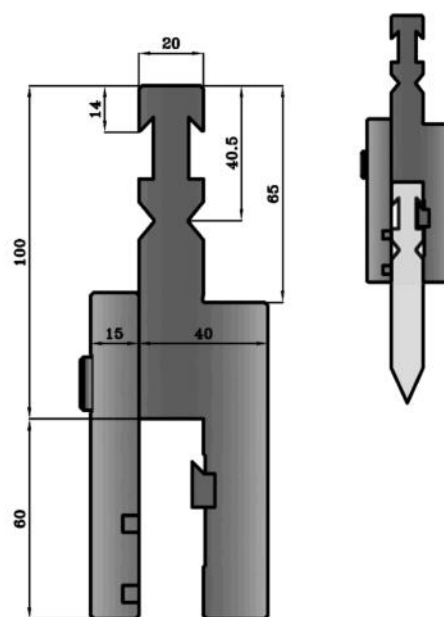
L = 150mm



PROLONGACIONES BEYELER-RFA BEYELER-RFA EXTENSION

COD 42.736

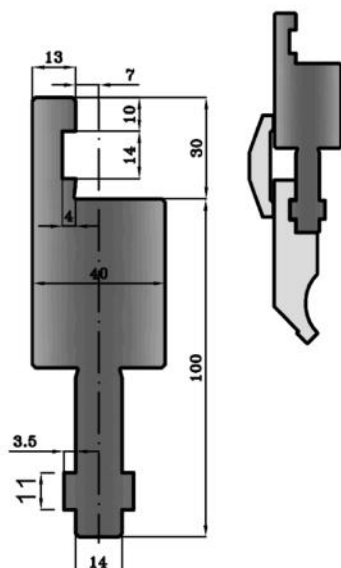
L = 150mm



PROLONGACIONES BEYELER-R
BEYELER-R EXTENSION

COD 42.737

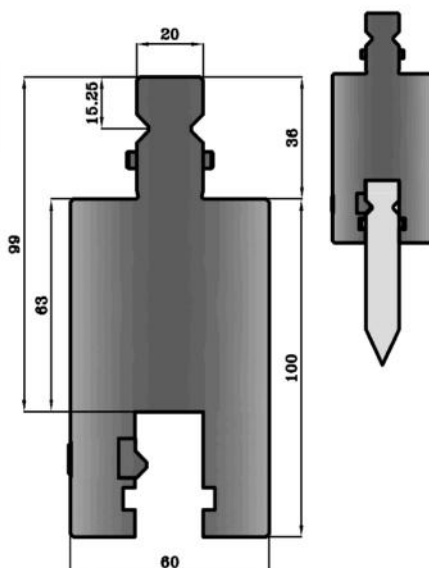
L = 150mm



PROLONGACIONES WILA/TRUMPF
WILA/TRUMPF EXTENSION

COD 42.738

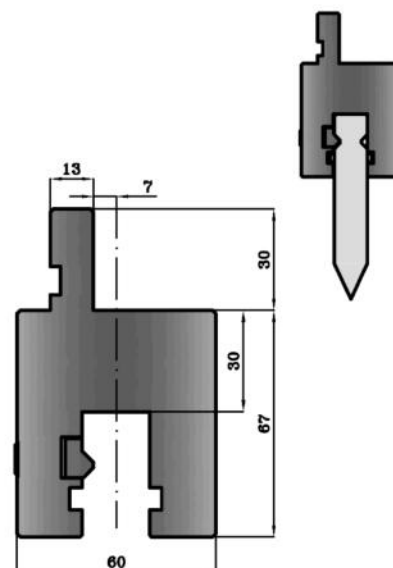
L = 150mm



AMADA/WILA-TRUMPF

COD 42.739

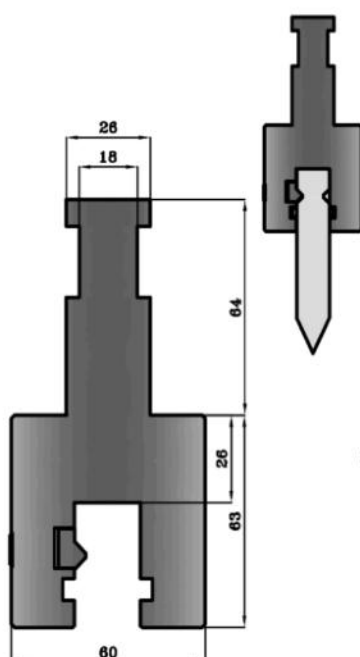
L = 150mm



EHT/WILA-TRUMPF

COD 42.721

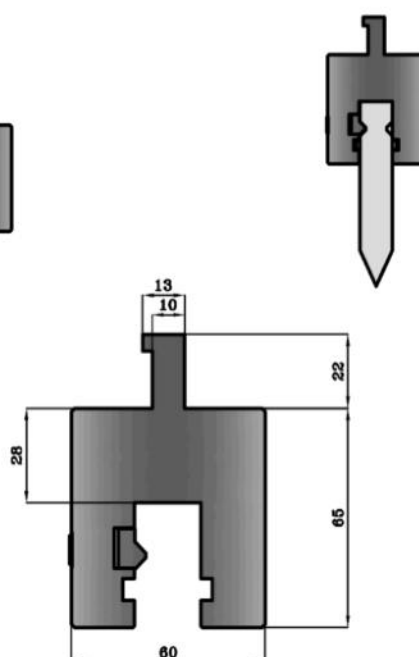
L = 150mm



LVD/WILA-TRUMPF

COD 42.722

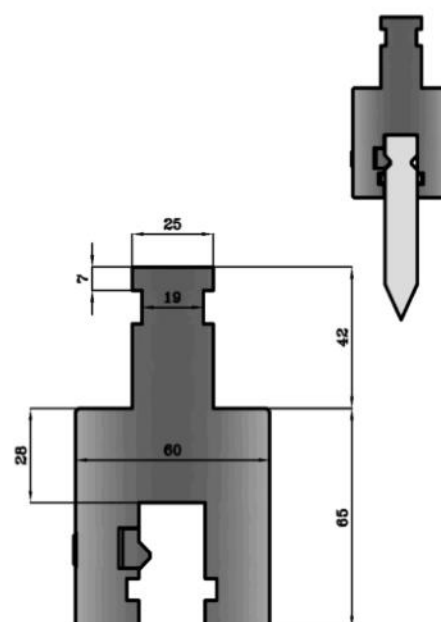
L = 150mm



WEINBRENNER/WILA-TRUMPF

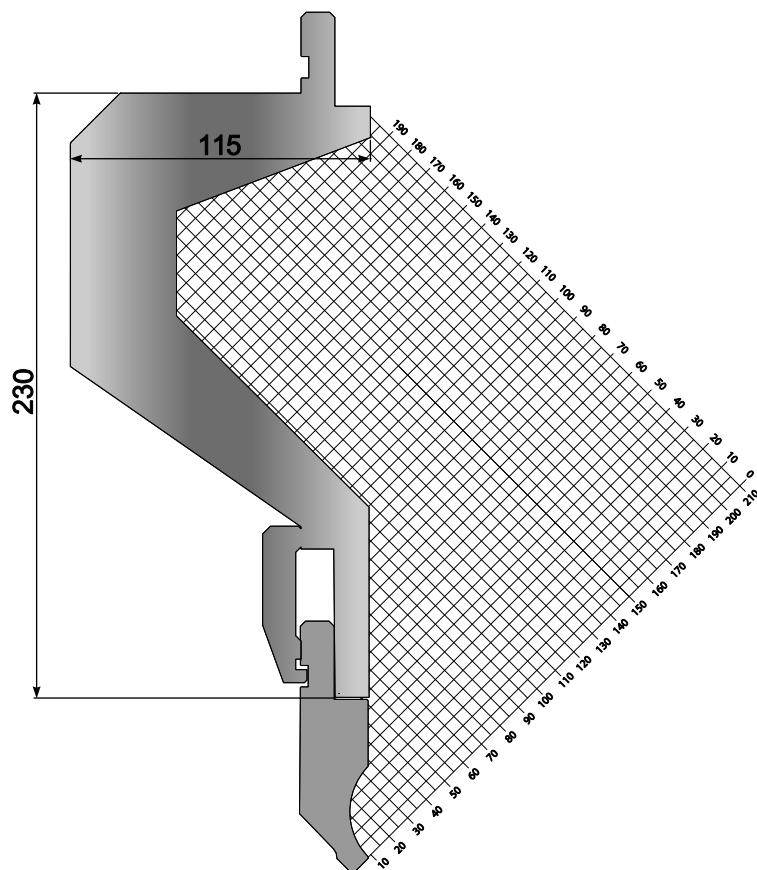
COD 42.723

L = 150mm



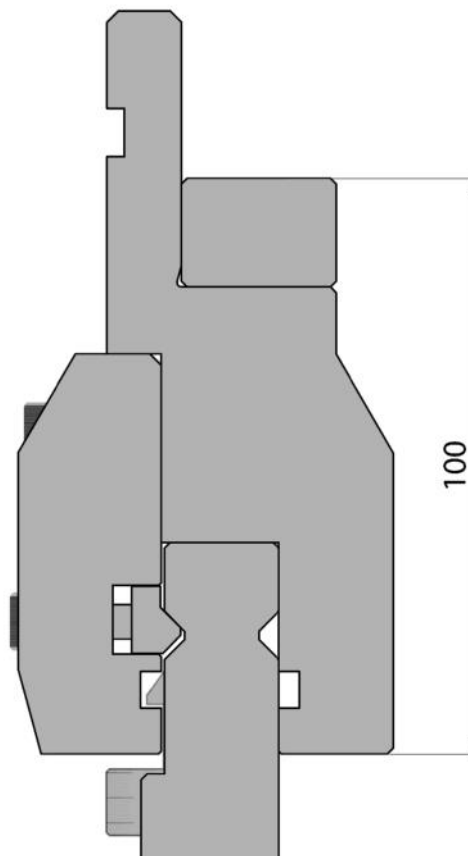
COD 42.270

L = 150mm



COD 42.741

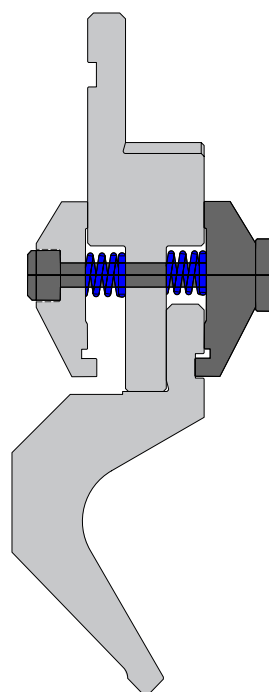
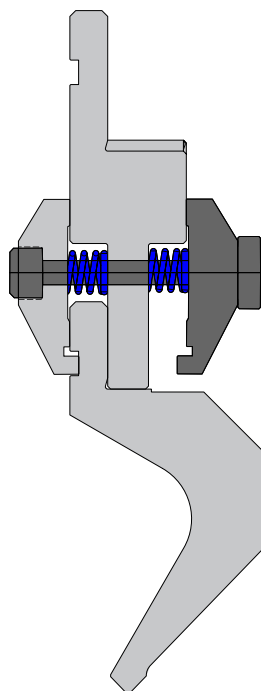
L = 160mm
H = 100mm



KIT DOBLE ANCLAJE
DOUBLE CLAMPING KIT

COD 50.150

L = 150mm



INTERMEDIOS AJUSTABLES ADJUSTABLE INTERMEDIATES

COD 42.210

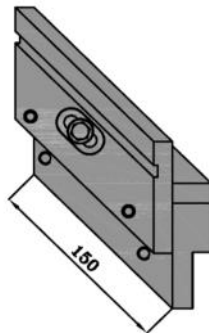
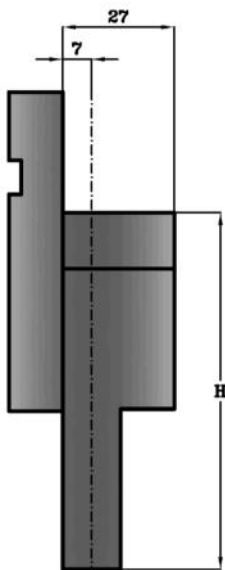
H=100mm/3.8Kg

COD 42.220

H=120mm/4.8Kg

COD 42.230

H=150mm/5.8Kg

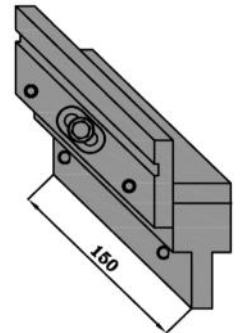
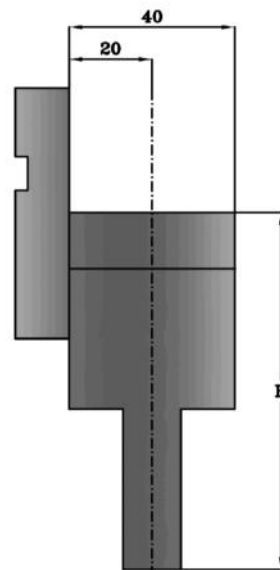


COD 42.240

H=100mm/3.5Kg

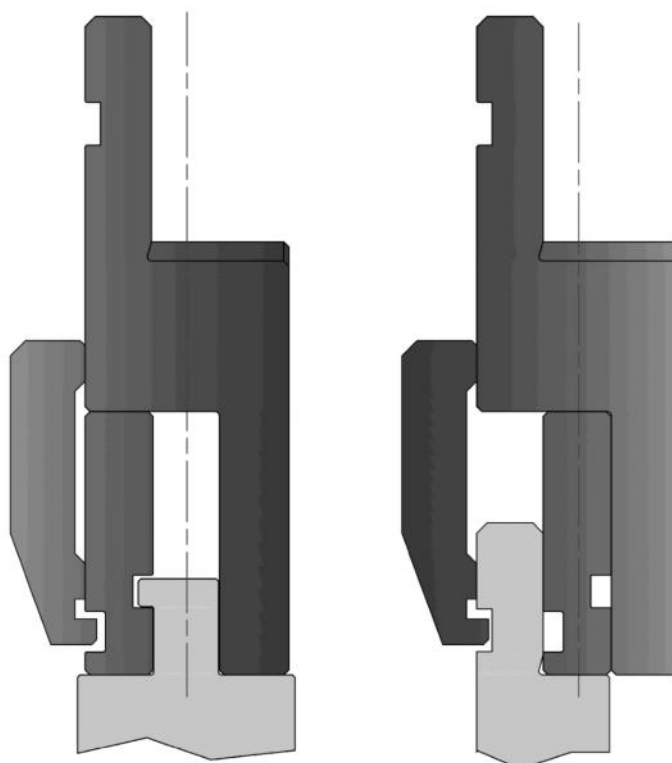
COD 42.250

H=120mm/4.5Kg



COD 42.260

H=100mm/4.5Kg



**INTERMEDIO
AMERICANO
AJUSTABLE**

**AMERICAN
ADJUSTABLE
INTERMEDIATES**

COD 40.160

H=50mm/0.4Kg

COD 50.130

H=43mm/0.4Kg

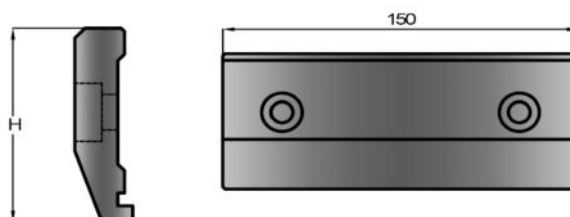
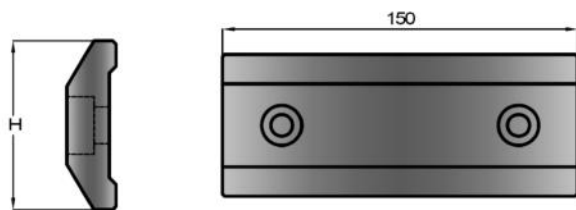
COD 40.200

H=60mm/0.8Kg

COD 50.120

H=52mm/0.8Kg

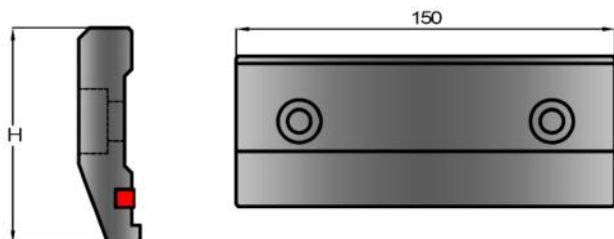
**MORDAZA DE SEGURIDAD
SAFETY CLAMP**



COD 41.990

H=60mm/0.8Kg

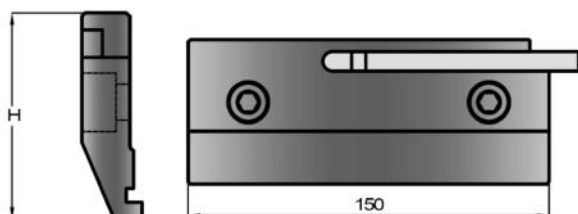
**MORDAZA DE SEGURIDAD CON INSERTO DE POLIURETANO
SAFETY CLAMP WITH POLIURETHANE**



COD 40.090

H=60mm/0.8Kg

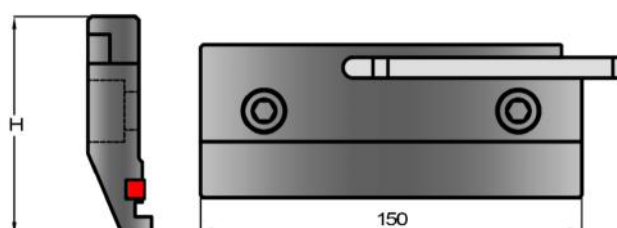
**MORDAZA DE ANCLAJE RÁPIDO
QUICK CLAMP**



COD 42.200

H=60mm/0.8Kg

**MORDAZA DE ANCLAJE RÁPIDO CON POLIURETANO
QUICK CLAMP WITH POLIURETHANE**

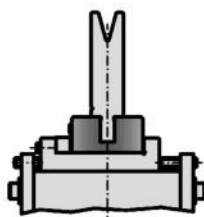
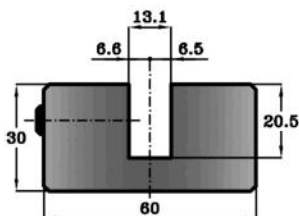


ADAPTADORES INFERIORES / LOWER ADAPTERS

AMADA-BEYELER/TRUMPF

COD 43.010

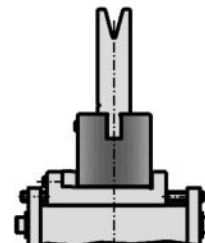
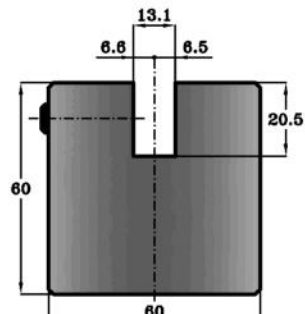
L = 1000mm/L=500mm



AMADA-BEYELER/TRUMPF

COD 43.020

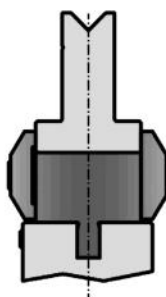
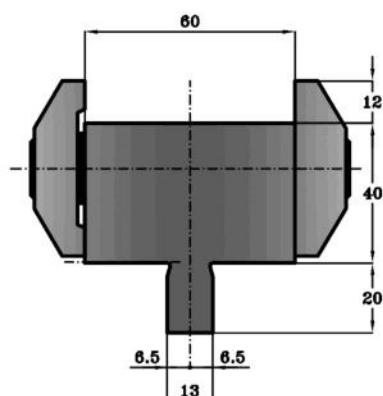
L = 1000mm/L=500mm



AMADA-BEYELER/TRUMPF

COD 43.030

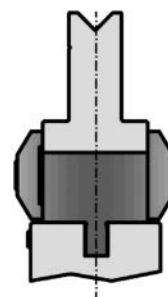
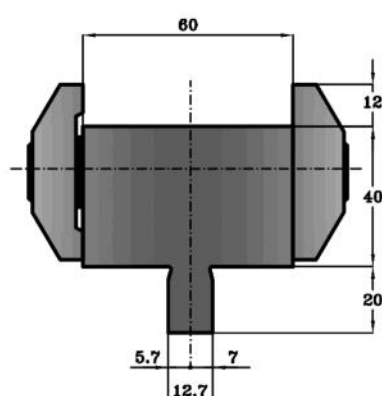
L = 835mm/L=415mm



LVD-AMADA

COD 43.040

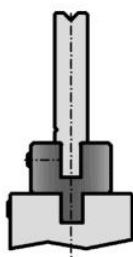
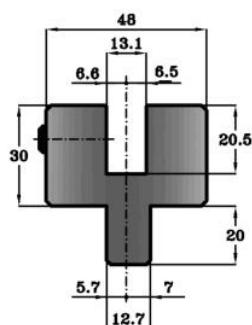
L = 835mm/L=415mm



AMADA-BEYELER/TRUMPF

COD 43.050

L = 1000mm/L=500mm

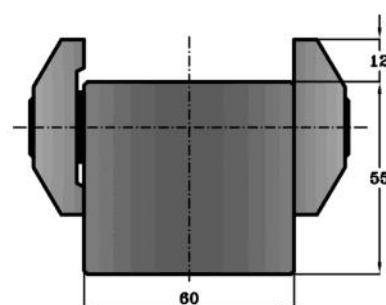
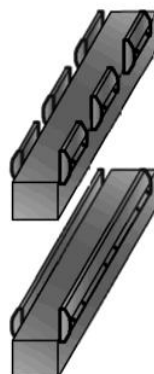


AMADA

COD 43.050

L = 835mm/22Kg

COD 40.500



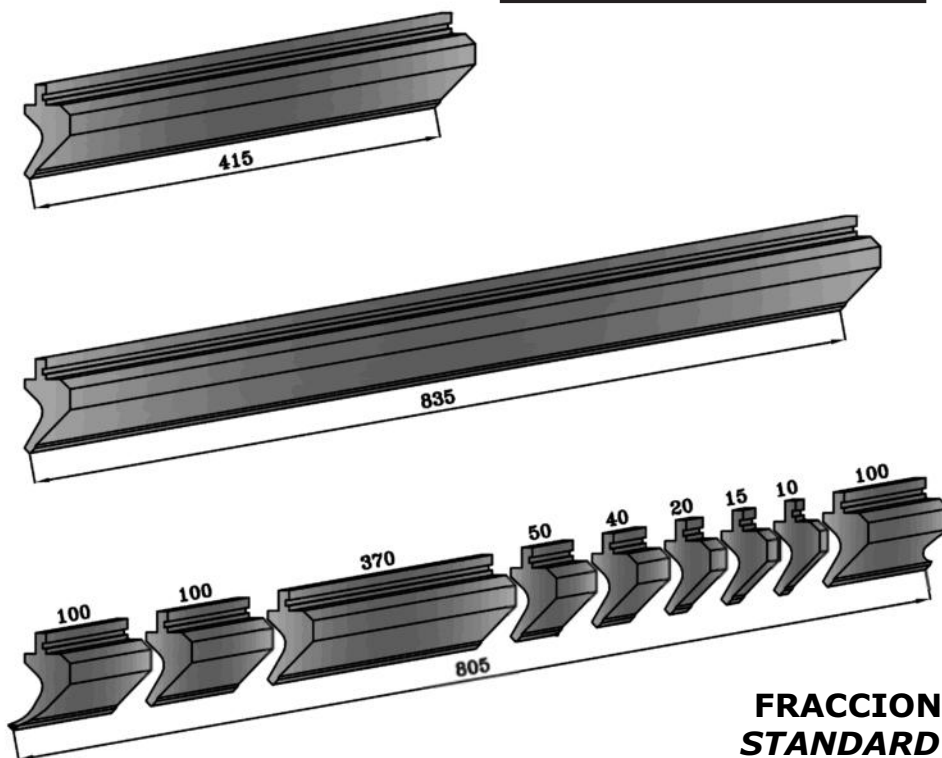
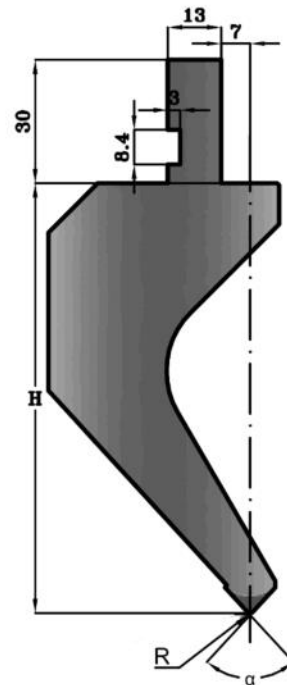
LOS PUNZONES ESTÁNDAR ESTAN DISPONIBLES EN LARGOS 415mm, 835mm Y FRACCIONADO DE 805mm
STANDARD PUNCHES ARE AVAILABLE LENGTHS IN 415mm, 835mm AND 805mm SEGMENTATION

LEYENDA / DESCRIPTION

H = ALTURA PUNZÓN / PUNCH HEIGHT

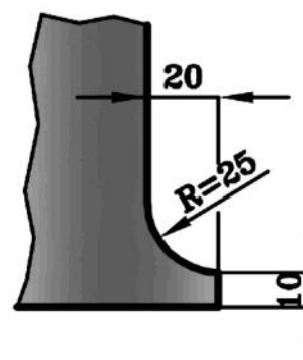
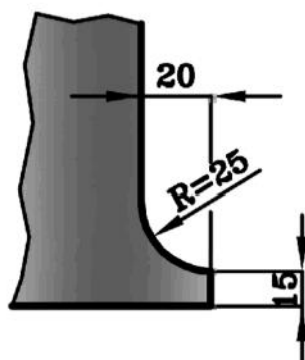
α = ÁNGULO PUNZÓN / PUNCH DEGREE

R = RADIO PUNZÓN / PUNCH RADIUS

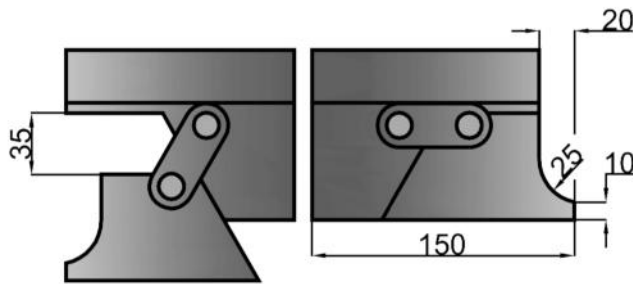


**FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION**

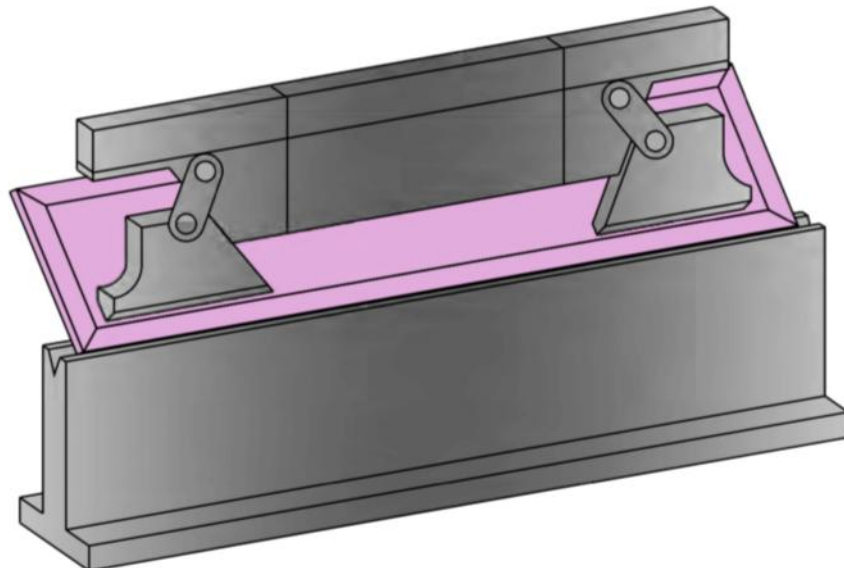
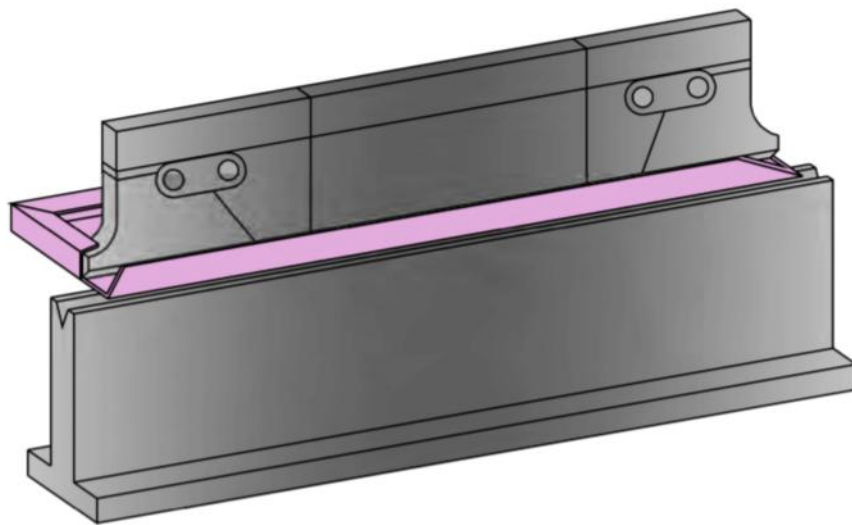
**BIGORNIA FRACCIONADO ESTÁNDAR
STANDARD HORN**



BIGORNIA MÓVIL COMBINADO CON LOS MODELOS LISTADOS
MOVIL HORNS COMBINATED WITH LISTED MODELS



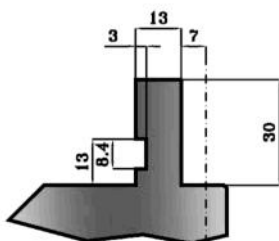
CÓDIGO BIGORNIA MÓVIL MOVIL HORN CODE	CÓDIGO PUNZÓN PUNCH CODE
10.100 S	10.100
10.110 S	10.110
10.640 S	10.640
10.650 S	10.650



RANURADO DE SEGURIDAD SAFETY GROOVE

COD 80.120

**RANURADO ESTÁNDAR
STANDARD GROVEE**



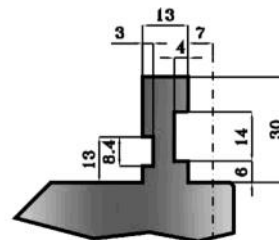
COD 80.201

**RANURADO ESTÁNDAR
STANDARD GROVEE**



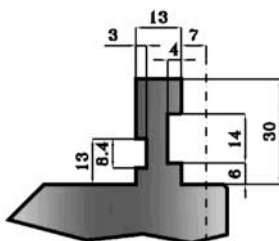
COD 80.201

**RANURADO A PETICIÓN
GROVEE ON REQUEST**



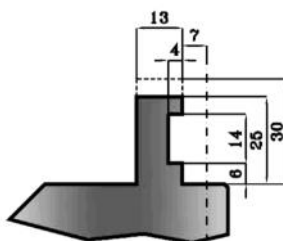
COD 80.170

**RANURADO A PETICIÓN
GROVEE ON REQUEST**



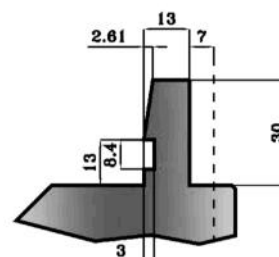
COD 80.160

**RANURADO A PETICIÓN
GROVEE ON REQUEST**



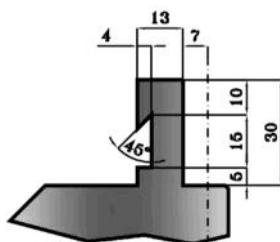
COD 80.200

**RANURADO A PETICIÓN
GROVEE ON REQUEST**



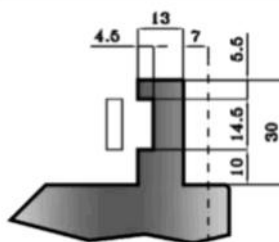
COD 80.130

**RANURADO A PETICIÓN
GROVEE ON REQUEST**



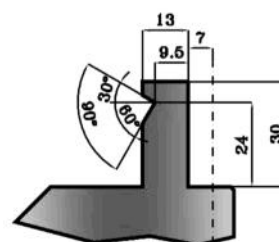
COD 80.100

**RANURADO A PETICIÓN
GROVEE ON REQUEST**



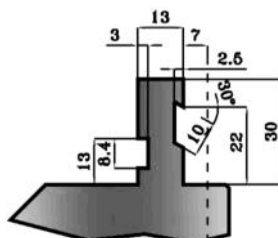
COD 80.110

**RANURADO A PETICIÓN
GROVEE ON REQUEST**

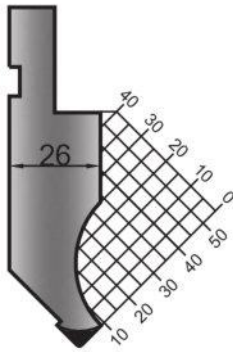


COD 80.140

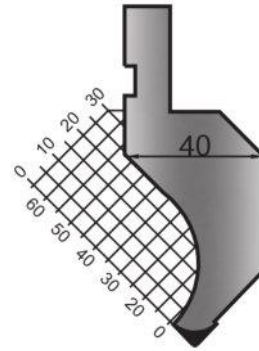
**RANURADO A PETICIÓN
GROVEE ON REQUEST**



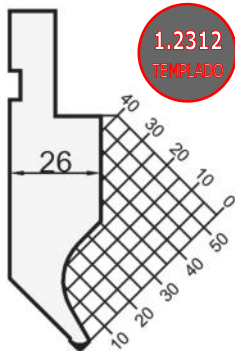
AMADA PROMECAM®



COD	α	R	H	MAX Tn/mt
10.100	90°	0.80	66.65	100
10.110	88°	0.80	66.65	100
10.120	88°	3.00	65.50	100
10.640	90°	0.25	66.60	100
10.650	88°	0.25	66.60	100
11.770	85°	3.00	65.50	100
12.600	85°	0.80	66.60	100
10.101	85°	0.25	66.50	100

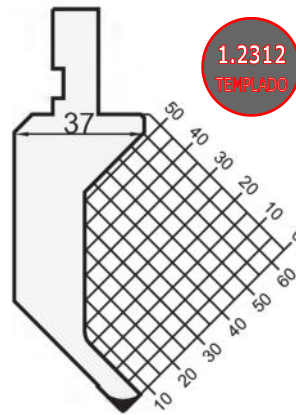


COD	α	R	H	MAX Tn/mt
10.800	90°	0.80	66.65	60
10.810	88°	0.80	66.65	60



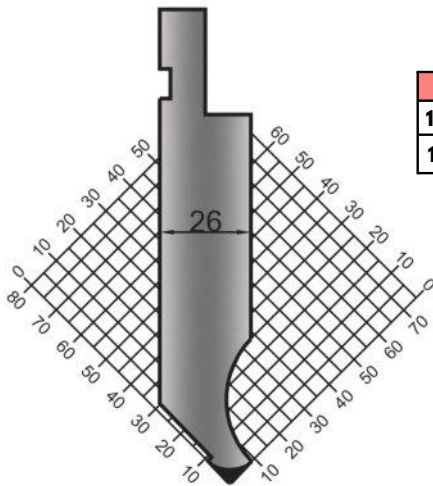
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
10.480	90°	0.60	66.40	35
10.490	88°	0.60	66.40	35
12.630	90°	0.25	66.35	35
12.640	88°	0.25	66.35	35

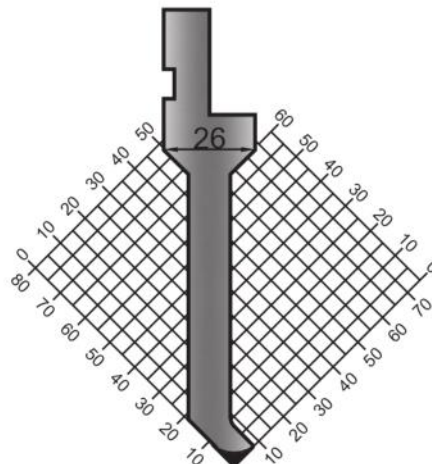


1.2312
TEMPLADO

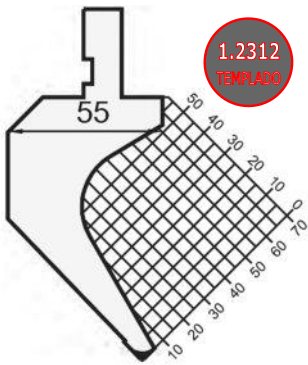
COD	α	R	H	MAX Tn/mt
10.190	90°	0.60	84.16	20
10.200	88°	0.60	84.15	20



COD	α	R	H	MAX Tn/mt
10.630	88°	0.80	104.65	100
12.810	85°	0.80	104.65	100

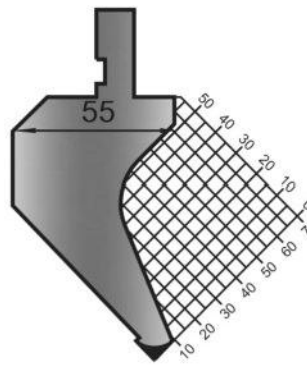


COD	α	R	H	MAX Tn/mt
10.280	90°	0.60	99.40	50
10.290	88°	0.60	99.40	50
12.610	90°	0.25	99.35	50
12.620	88°	0.25	99.35	50

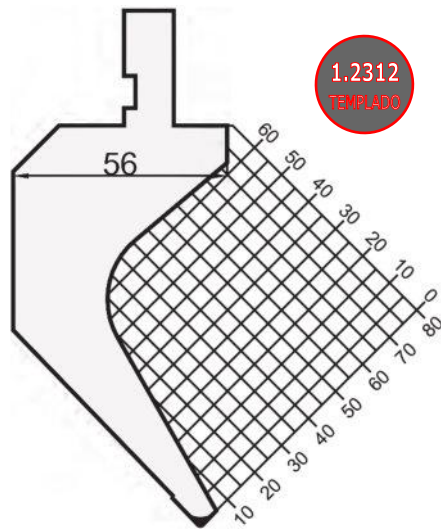


1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
11.760	90°	0.25	89.88	50
11.750	88°	0.80	89.65	50

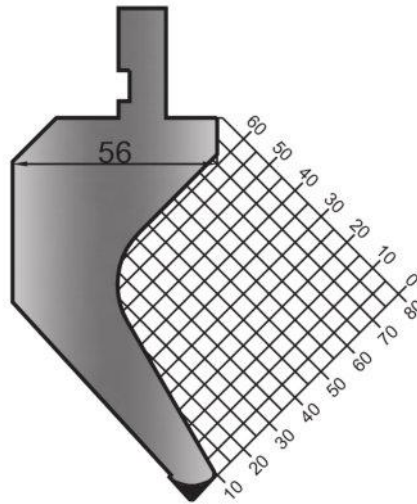


COD	α	R	H	MAX Tn/mt
10.130	90°	0.80	89.65	60
10.140	88°	0.80	89.65	60
10.150	88°	3.00	88.50	60
12.650	90°	0.25	89.60	60
12.660	88°	0.25	89.60	60

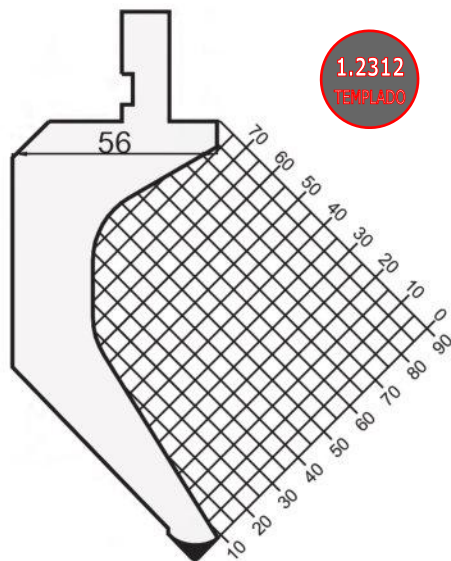


1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
11.740	90°	0.25	104.88	50
11.730	88°	0.80	104.65	50

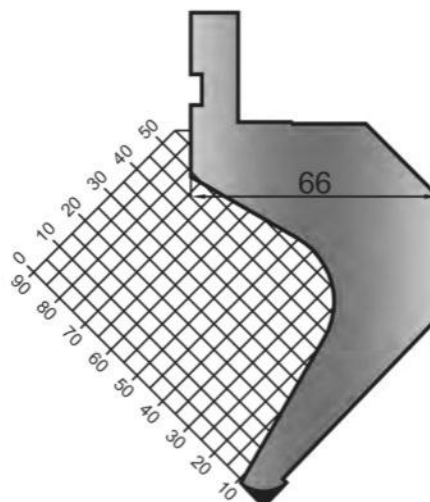


COD	α	R	H	MAX Tn/mt
10.160	90°	0.80	104.40	50
10.170	88°	0.80	104.65	50
10.180	88°	3.00	103.50	50
11.720	85°	0.80	104.60	50
12.670	90°	0.25	104.60	50
12.680	88°	0.25	104.60	50

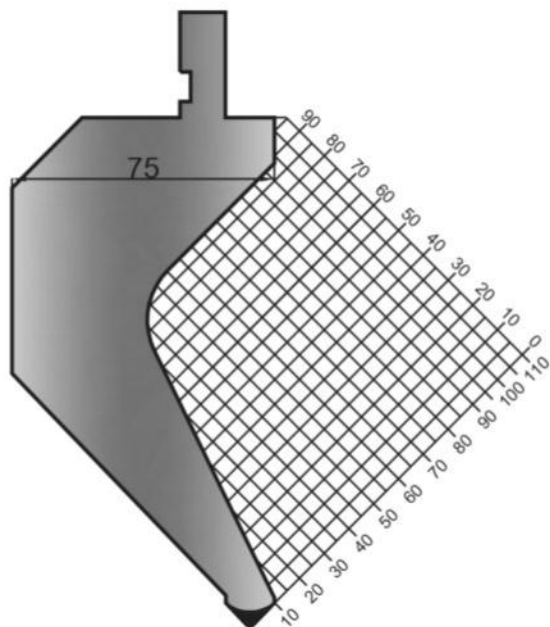


1.2312
TEMPLADO

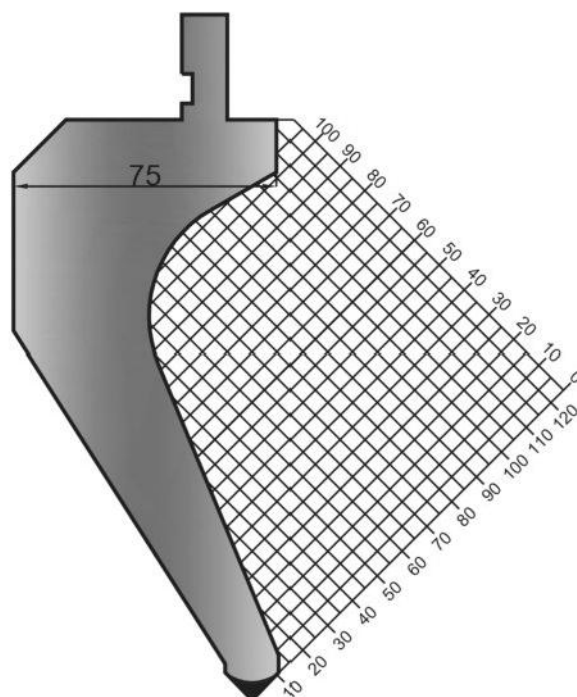
COD	α	R	H	MAX Tn/mt
10.600	90°	0.80	120.00	50
10.610	88°	0.80	120.00	50
10.620	88°	3.00	119.00	50



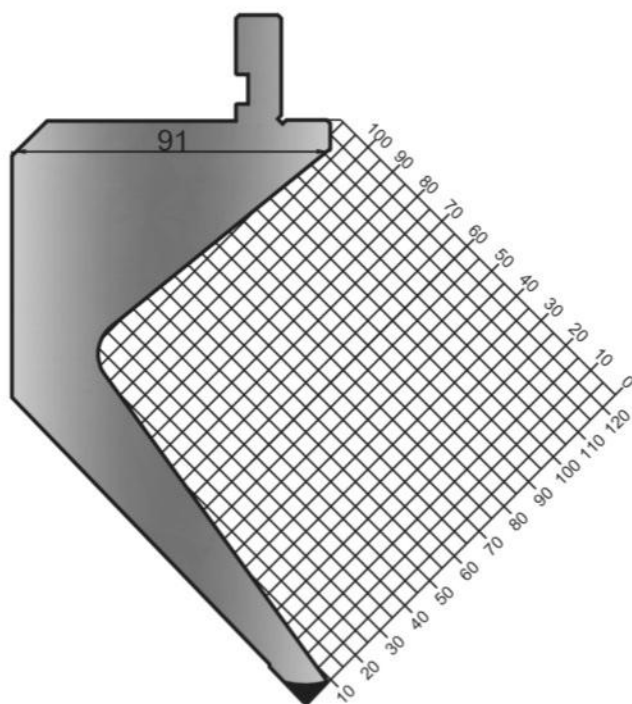
COD	α	R	H	MAX Tn/mt
10.820	88°	0.80	104.65	45



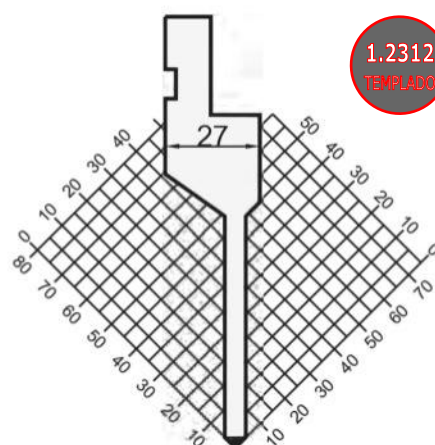
COD	α	R	H	MAX Tn/mt
10.300	88°	0.80	145.00	80



COD	α	R	H	MAX Tn/mt
10.310	88°	0.80	165.00	60

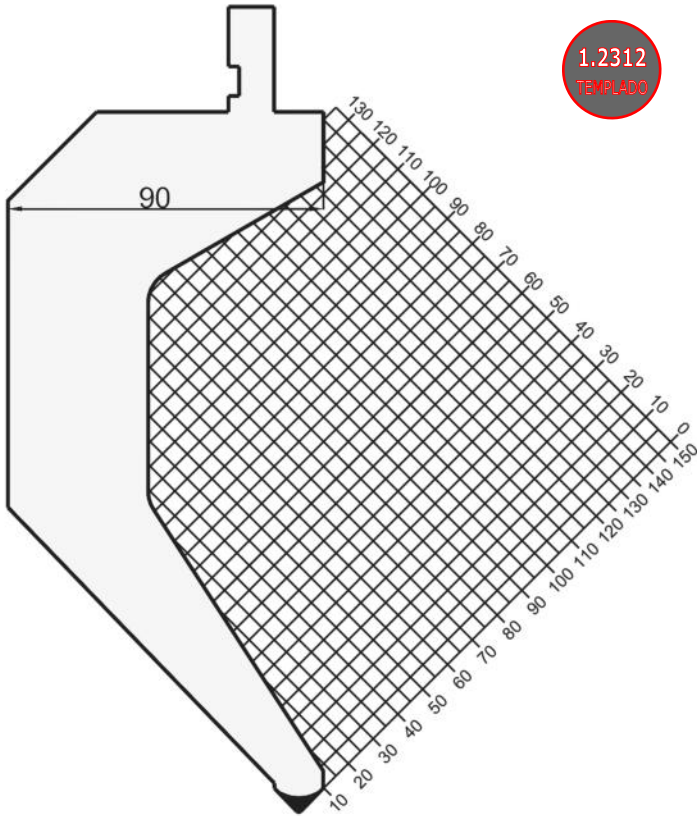


COD	α	R	H	MAX Tn/mt
10.301	88°	0.60	167.00	30
10.302	85°	0.80	167.00	30



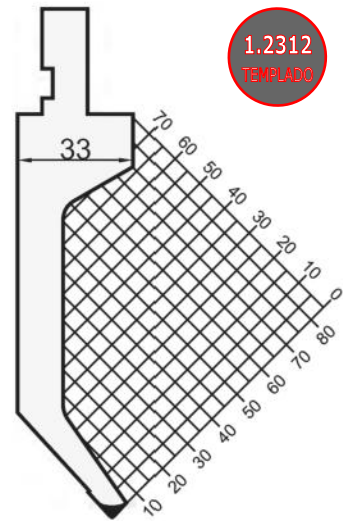
COD	α	R	H	MAX Tn/mt
10.830	90°	0.60	94.40	50
12.690	90°	0.25	94.35	50
10.840	88°	0.60	94.40	50
12.700	88°	0.25	94.35	50

FRACCIONABLE
SEGMENTABLE



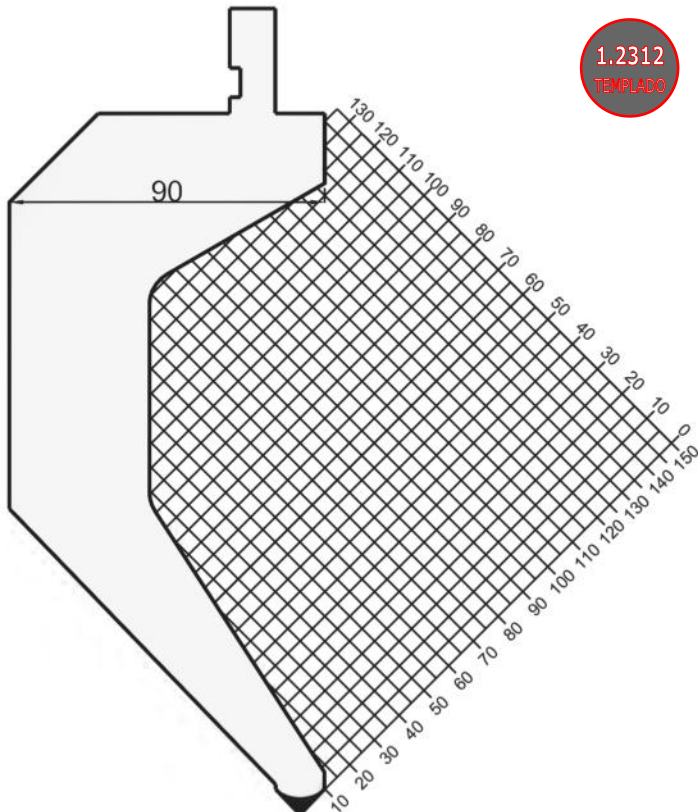
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
12.910	88°	0.80	200.00	85



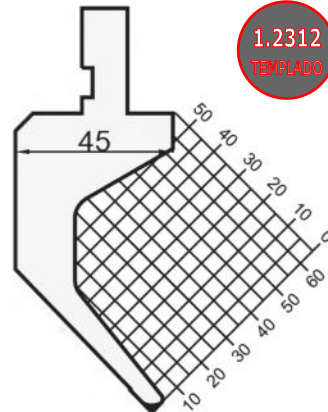
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
10.303	85°	0.60	115.00	20



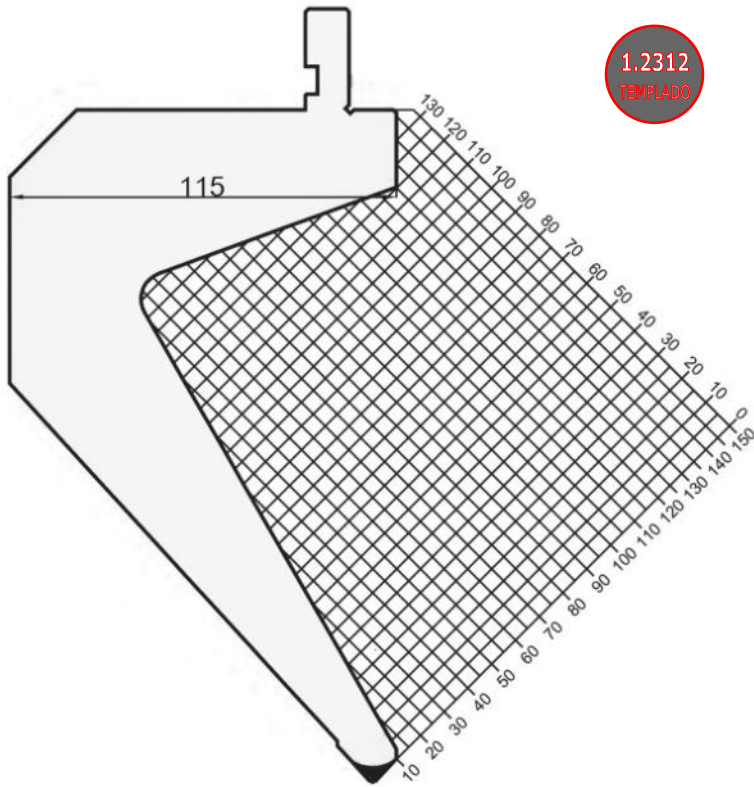
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
13.010	88°	3.00	199.00	85



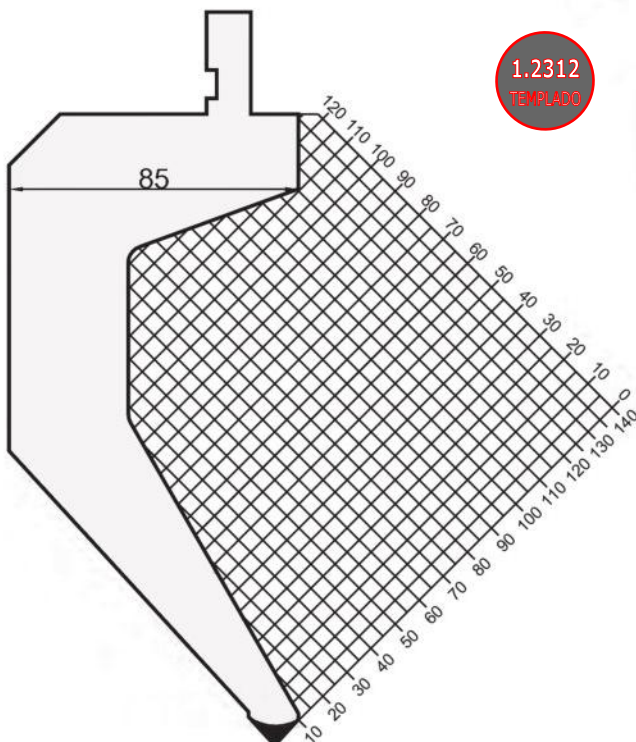
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
10.304	88°	0.60	85.00	15



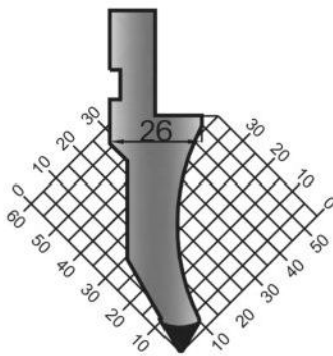
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
10.306	85°	1.00	200.00	70

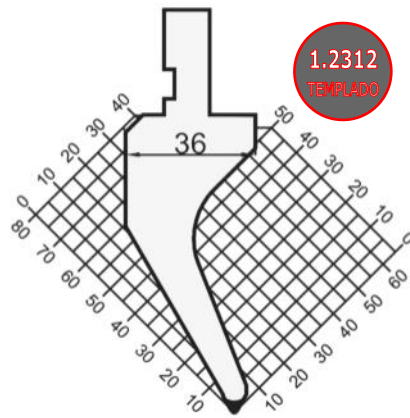


1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
10.305	85°	1.00	185.00	60

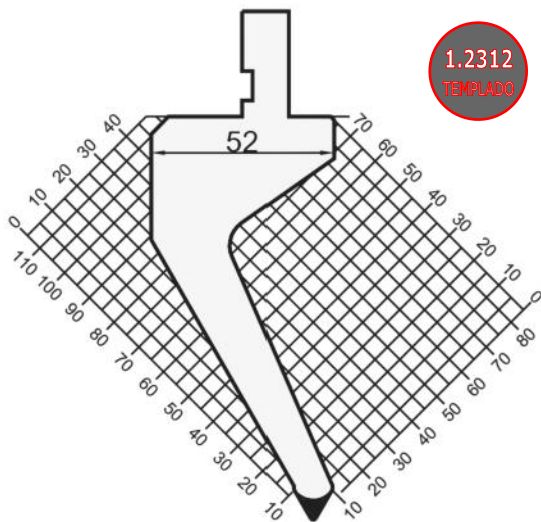


COD	α	R	H	MAX Tn/mt
10.260	60°	0.80	67.00	80
10.270	60°	2.00	67.00	80



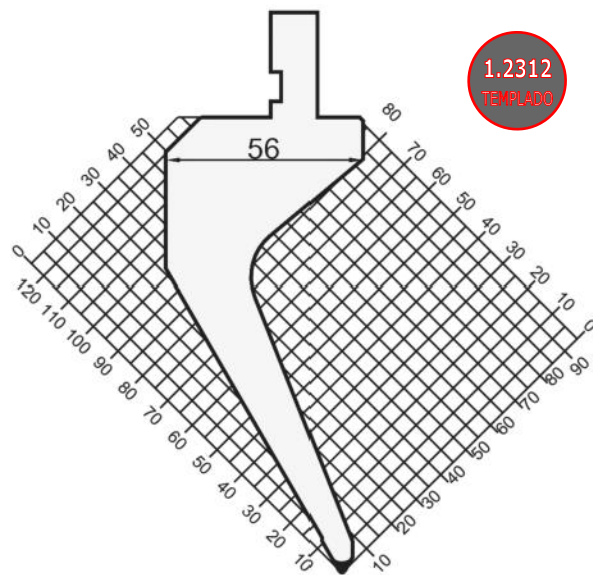
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
11.620	60°	0.80	85.00	40



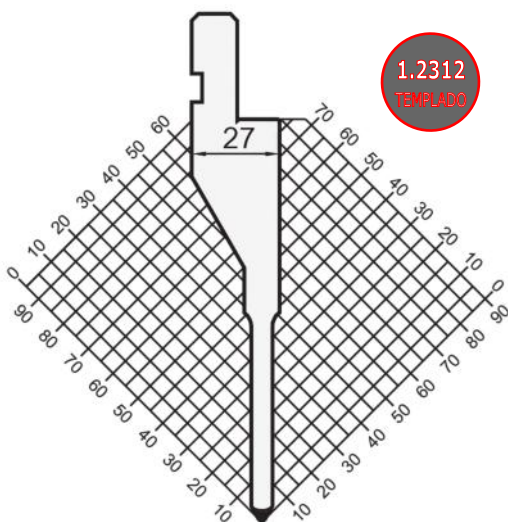
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
12.720	60°	0.80	115.00	40



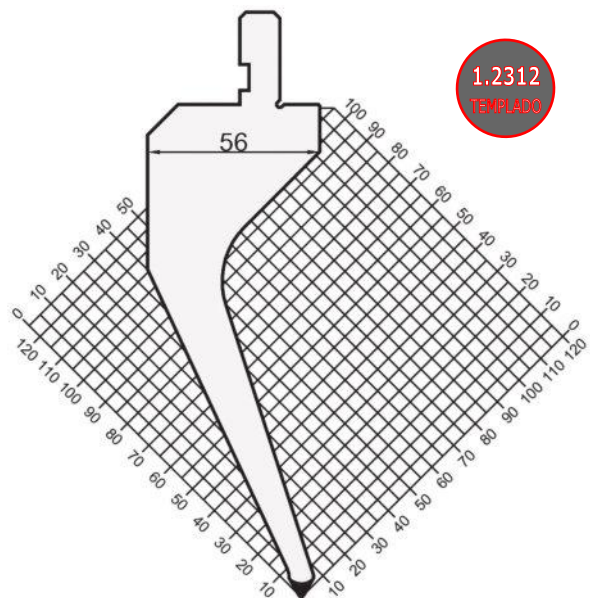
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
11.630	60°	0.80	130.00	40



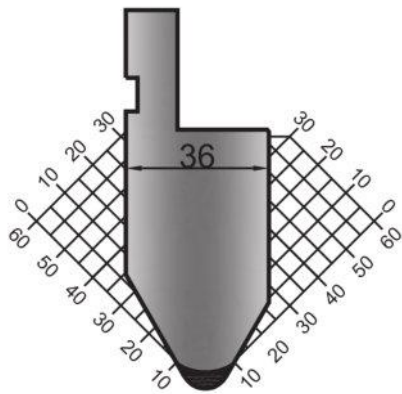
1.2312
TEMPLADO

COD	α	R	H	MAX Tn/mt
12.710	60°	0.80	115.00	50

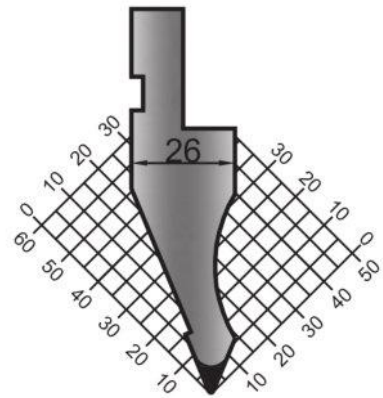


1.2312
TEMPLADO

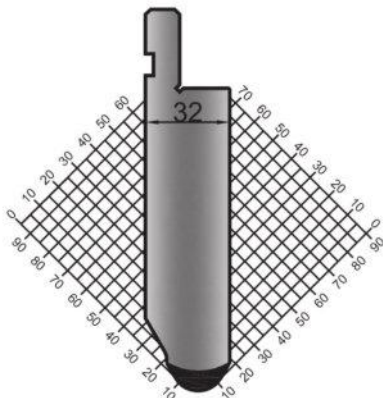
COD	α	R	H	MAX Tn/mt
11.900	60°	0.80	160.00	40



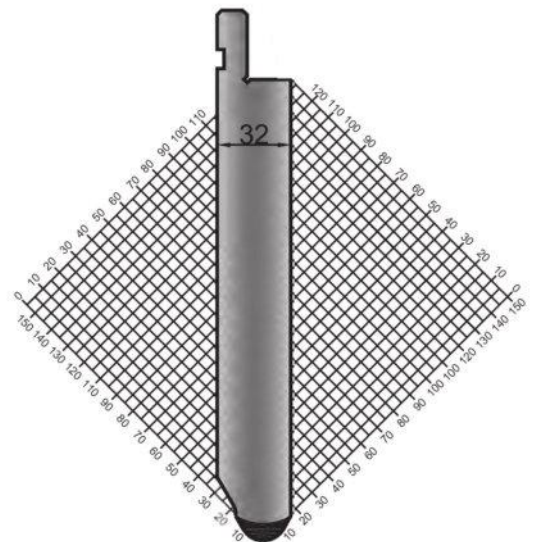
COD	α	R	H	MAX Tn/mt
10.320	60°	6.00	65.00	100



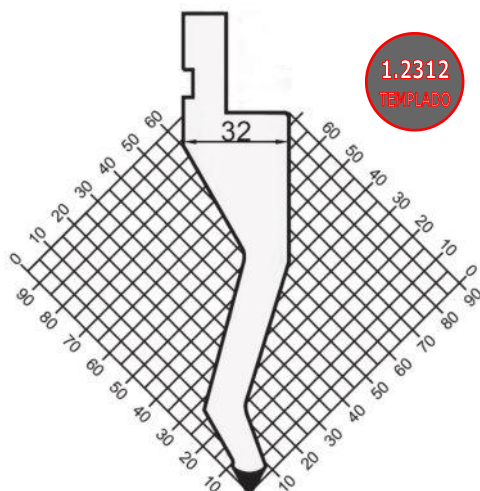
COD	α	R	H	MAX Tn/mt
10.240	45°	0.50	66.40	80
10.250	45°	1.50	65.20	80



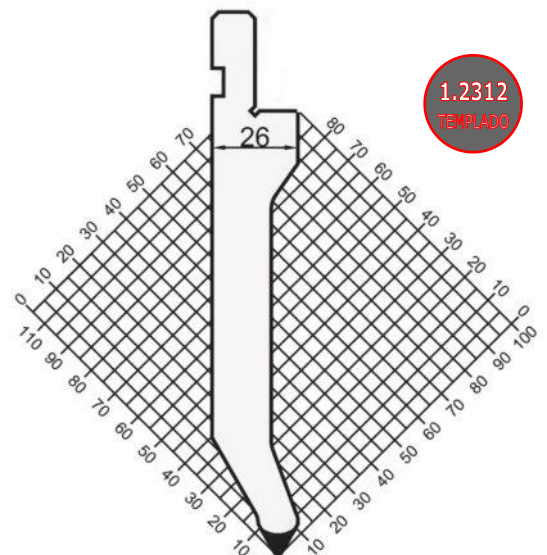
COD	α	R	H	MAX Tn/mt
12.830	60°	10.0	115.00	100



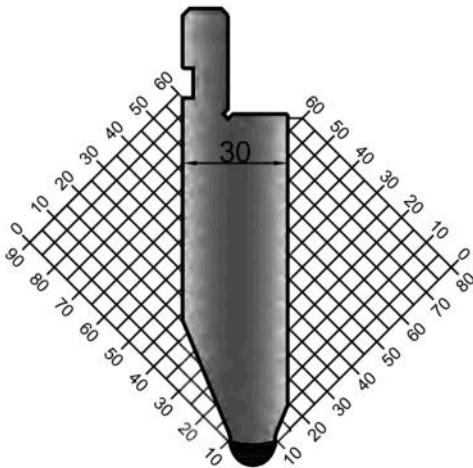
COD	α	R	H	MAX Tn/mt
12.930	60°	8.00	200.00	100



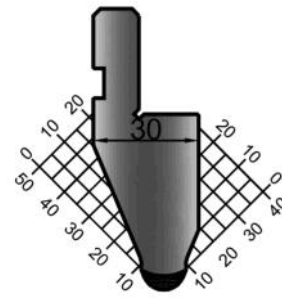
COD	α	R	H	MAX Tn/mt
11.910	60°	0.80	115.00	60



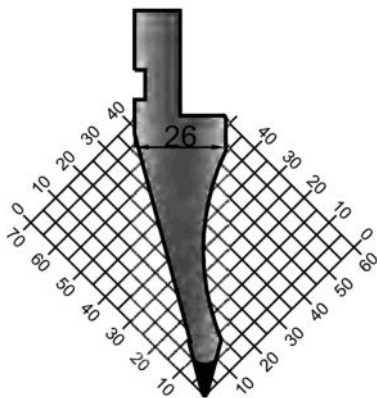
COD	α	R	H	MAX Tn/mt
12.840	60°	0.80	135.00	70



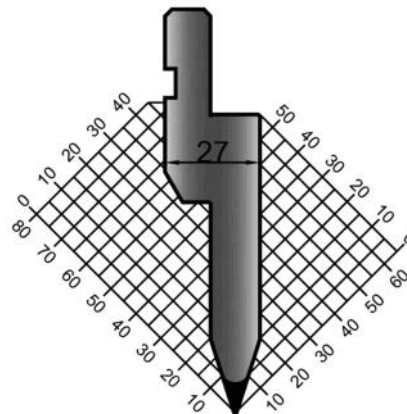
COD	α	R	H	MAX Tn/mt
10.530	45°	6.00	100.00	100



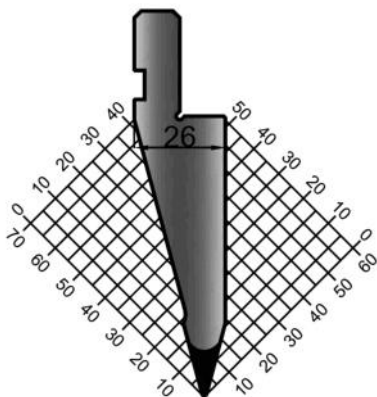
COD	α	R	H	MAX Tn/mt
10.540	45°	6.00	50.00	100



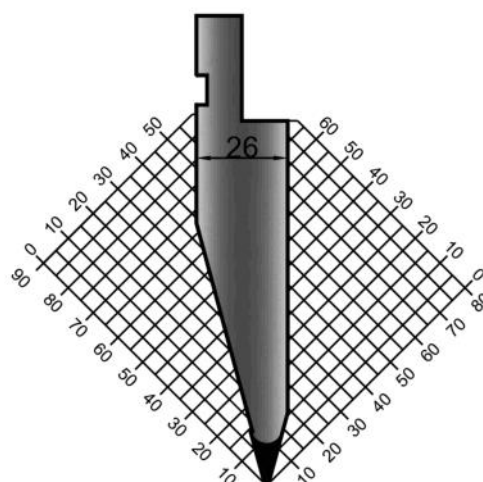
COD	α	R	H	MAX Tn/mt
10.350	35°	0.50	80.00	70
10.470	35°	0.80	90.00	70
12.820	35°	1.50	90.00	70



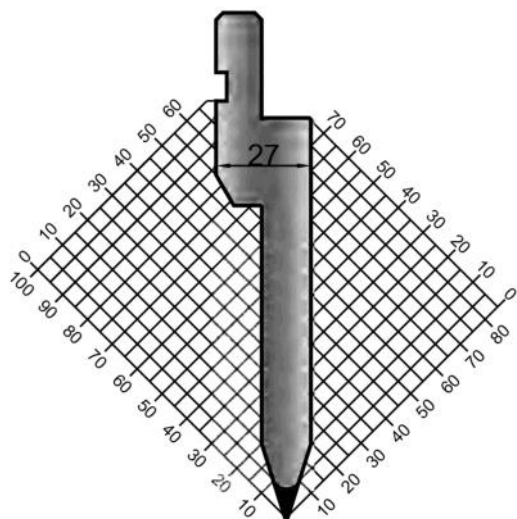
COD	α	R	H	MAX Tn/mt
10.340	35°	0.80	85.00	100



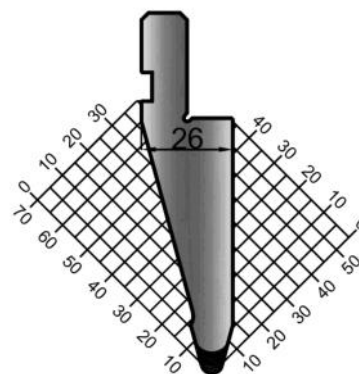
COD	α	R	H	MAX Tn/mt
10.560	30°	0.50	80.00	100



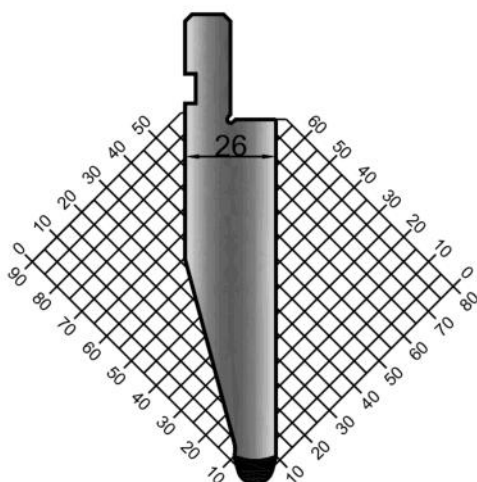
COD	α	R	H	MAX Tn/mt
11.930	30°	0.60	104.00	100



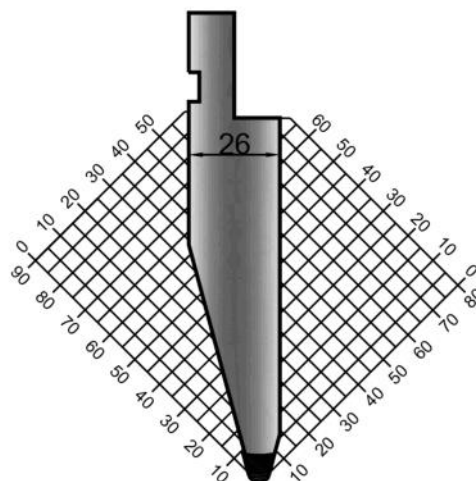
COD	α	R	H	MAX Tn/mt
10.330	26°	0.80	117.00	100



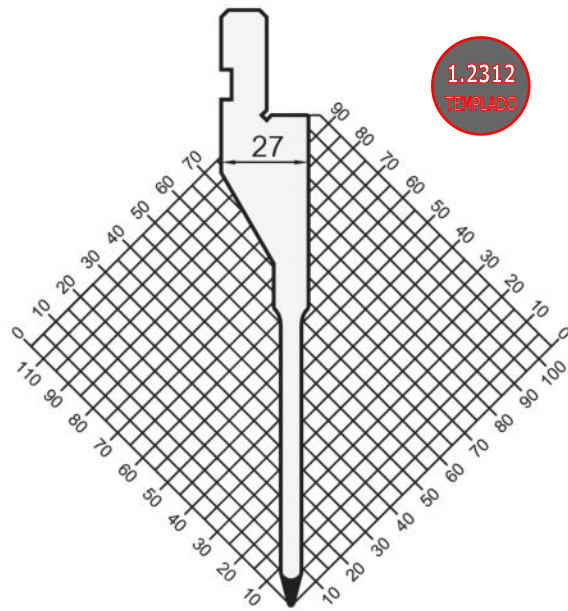
COD	α	R	H	MAX Tn/mt
10.570	30°	3.00	80.00	100



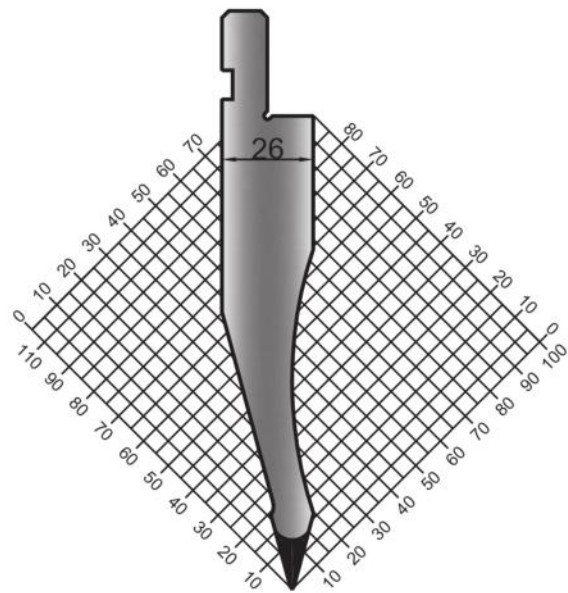
COD	α	R	H	MAX Tn/mt
11.940	30°	5.00	104.00	100



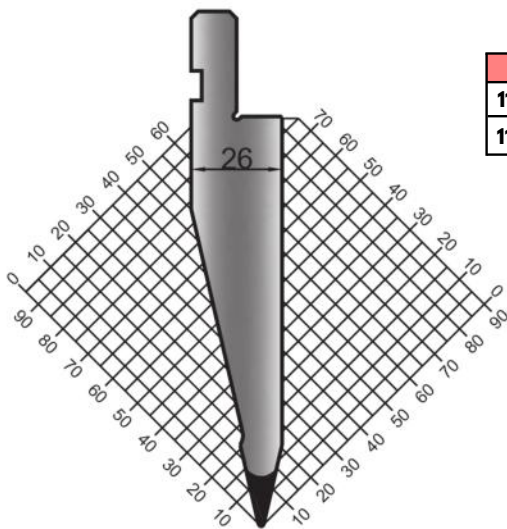
COD	α	R	H	MAX Tn/mt
12.890	30°	3.00	104.00	100



COD	α	R	H	MAX Tn/mt
10.860	30°	0.60	140.00	40

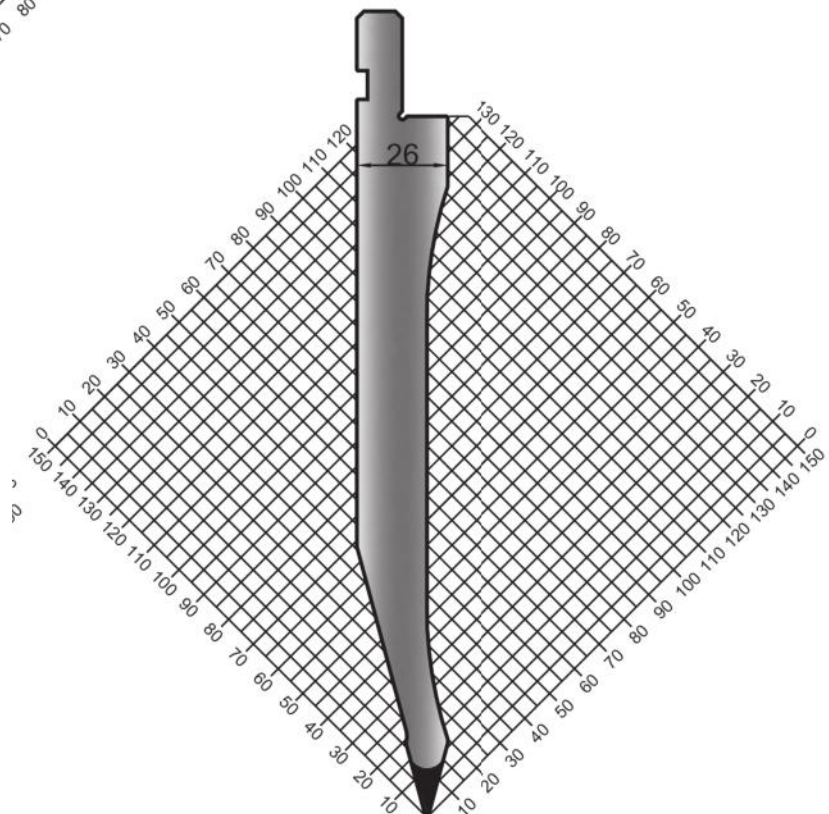


COD	α	R	H	MAX Tn/mt
10.520	30°	0.50	135.00	50
10.550	30°	0.50	105.00	50



COD	α	R	H	MAX Tn/mt
11.780	26°	0.80	117.00	100
11.920	26°	3.00	117.00	100

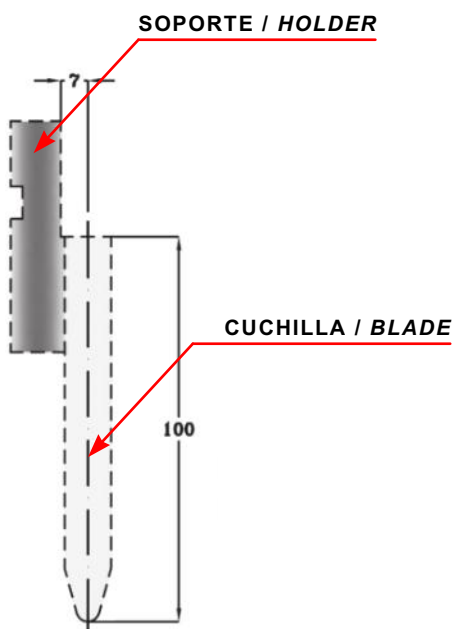
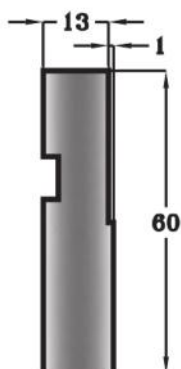
COD	α	R	H	MAX Tn/mt
12.920	30°	0.50	200.00	50



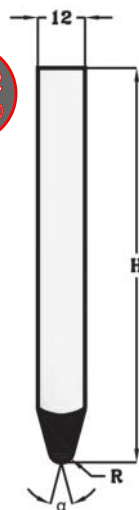
AMADA-PROMECAM

COD 10.440

L=500mm



1.2312
TEMPLEADO



COD 13.500

$\alpha 28^\circ$ | R 0.50 | H 100.00 | Max. Tn/mt 100

COD 13.501

$\alpha 28^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.502

$\alpha 28^\circ$ | R 2.00 | H 100.00 | Max. Tn/mt 100

COD 13.503

$\alpha 28^\circ$ | R 3.00 | H 100.00 | Max. Tn/mt 100

COD 13.504

$\alpha 28^\circ$ | R 4.00 | H 100.00 | Max. Tn/mt 100

COD 13.505

$\alpha 28^\circ$ | R 5.00 | H 100.00 | Max. Tn/mt 100

COD 13.506

$\alpha 28^\circ$ | R 6.00 | H 100.00 | Max. Tn/mt 100

COD 13.520

$\alpha 84^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.530

$\alpha 86^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.550

$\alpha 90^\circ$ | R 0.50 | H 100.00 | Max. Tn/mt 100

COD 13.551

$\alpha 90^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

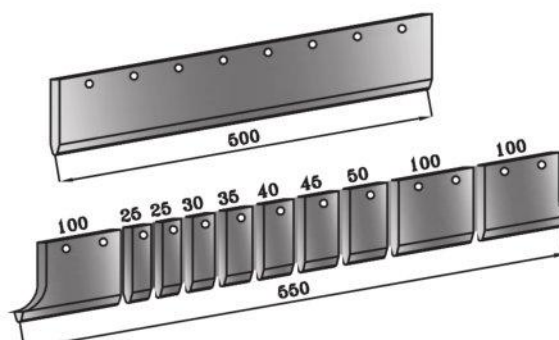
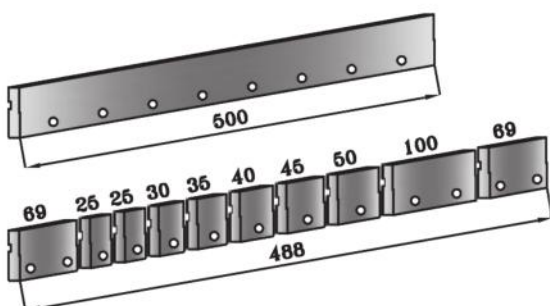
COD 13.552

$\alpha 90^\circ$ | R 1.50 | H 100.00 | Max. Tn/mt 100

COD 13.553

$\alpha 90^\circ$ | R 2.00 | H 100.00 | Max. Tn/mt 100

FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION

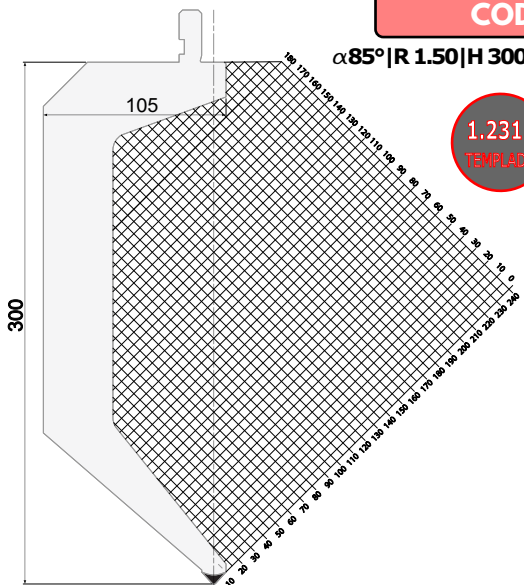


AMADA-PROMECAM

COD 10.307

$\alpha 85^\circ | R 1.50 | H 300.00 | \text{Max. Tn/mt } 100$

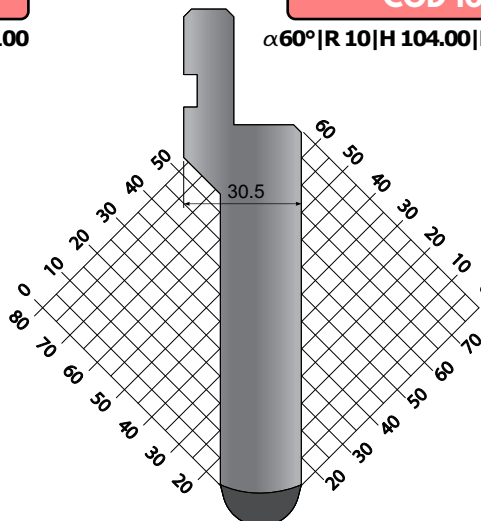
1.2312
TEMPLADO



AMADA-PROMECAM

COD 10.580

$\alpha 60^\circ | R 10 | H 104.00 | \text{Max. Tn/mt } 100$

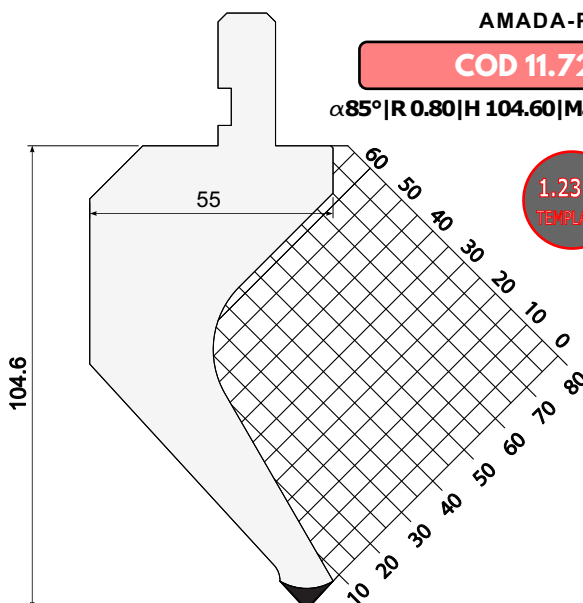


AMADA-PROMECAM

COD 11.721

$\alpha 85^\circ | R 0.80 | H 104.60 | \text{Max. Tn/mt } 80$

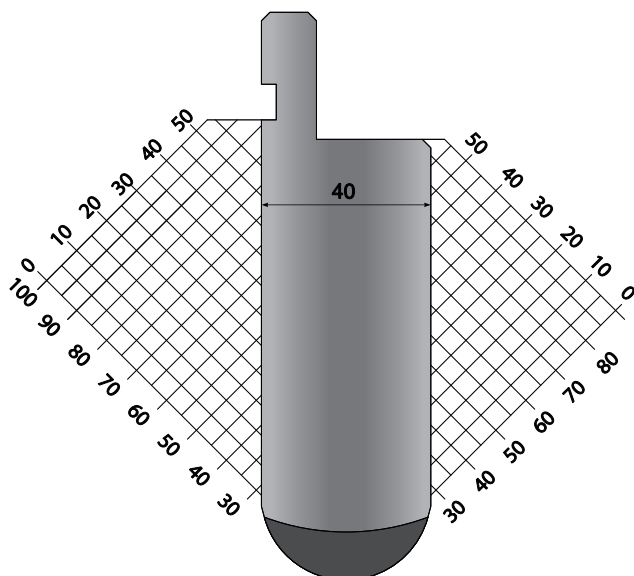
1.2312
TEMPLADO



AMADA-PROMECAM

COD 10.595

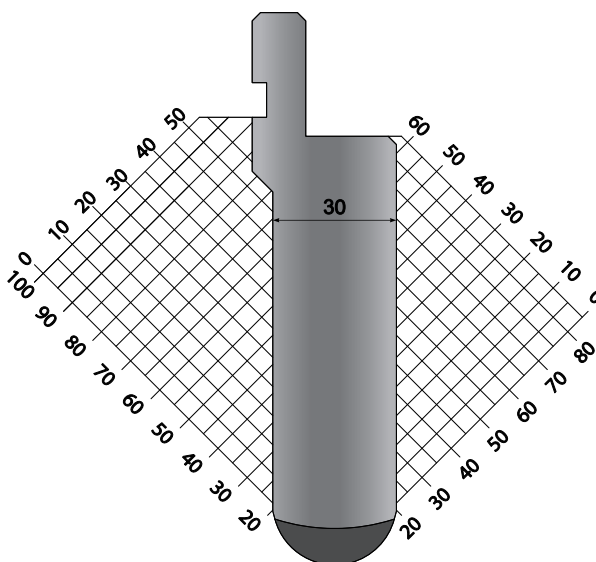
$\alpha 60^\circ | R 20 | H 104.00 | \text{Max. Tn/mt } 100$



AMADA-PROMECAM

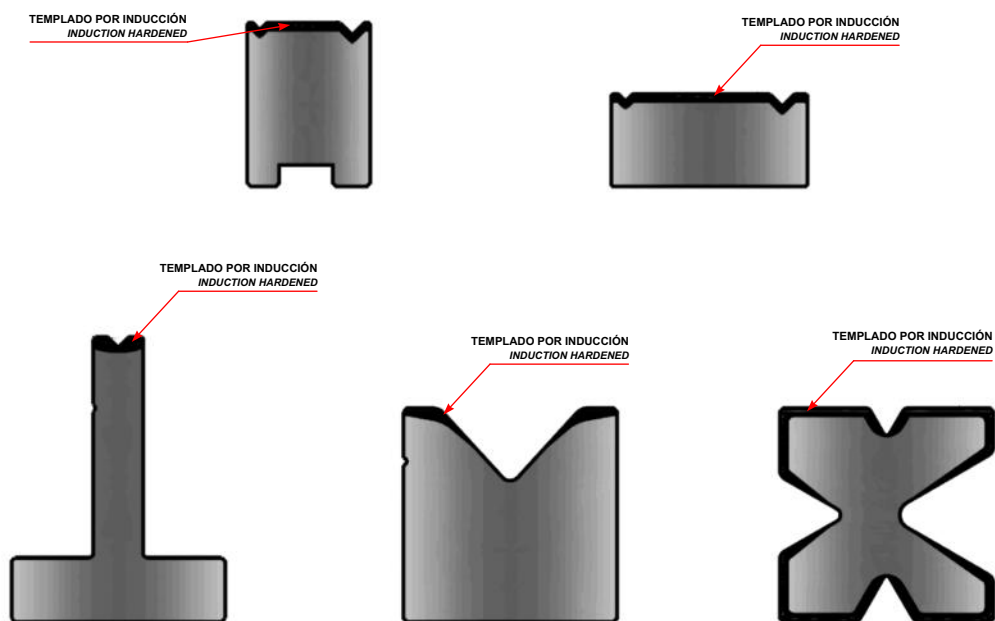
COD 10.590

$\alpha 60^\circ | R 15 | H 104.00 | \text{Max. Tn/mt } 100$

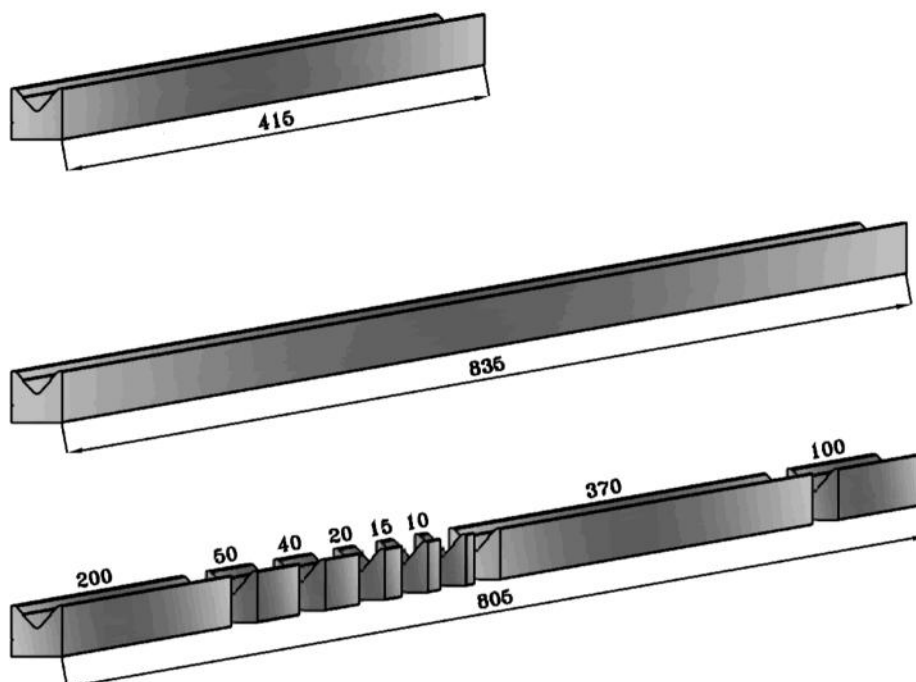


AMADA PROMECAM®

LAS MATRICES ESTÁNDAR ESTÁN DISPONIBLES EN LARGO: 415mm, 835mm Y FRACCIONADO DE 805mm
STANDARD DIES ARE AVAILABLE IN LENGTHS: 415mm, 835mm AND 805mm SEGMENTED

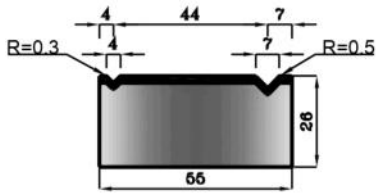


FRACCIONADO ESTÁNDAR STANDARD SEGMENTATION



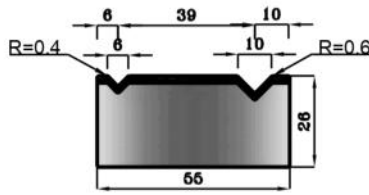
COD 20.100

$\alpha 90^\circ$ | Max. Tn/mt 100



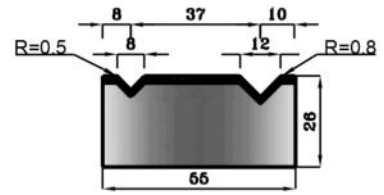
COD 20.110

$\alpha 90^\circ$ | Max. Tn/mt 100



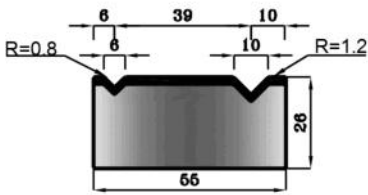
COD 20.120

$\alpha 90^\circ$ | Max. Tn/mt 100



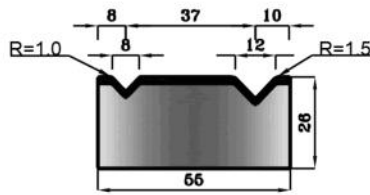
COD 20.460

$\alpha 88^\circ$ | Max. Tn/mt 100



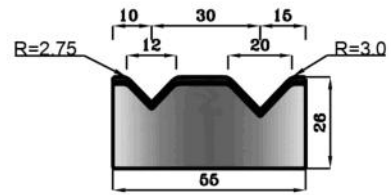
COD 20.410

$\alpha 88^\circ$ | Max. Tn/mt 100



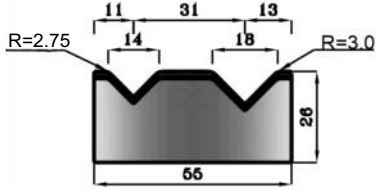
COD 20.130

$\alpha 88^\circ$ | Max. Tn/mt 100



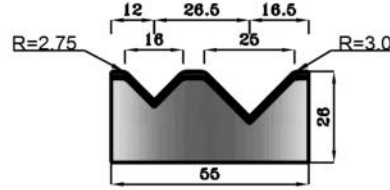
COD 20.320

$\alpha 88^\circ$ | Max. Tn/mt 100



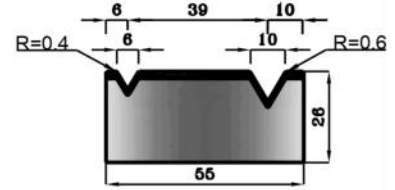
COD 20.140

$\alpha 88^\circ$ | Max. Tn/mt 100



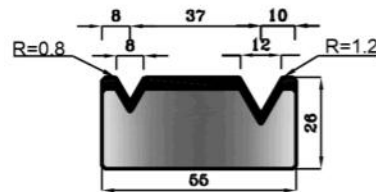
COD 20.150

$\alpha 60^\circ$ | Max. Tn/mt 100



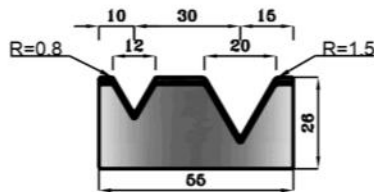
COD 20.160

$\alpha 60^\circ$ | Max. Tn/mt 60



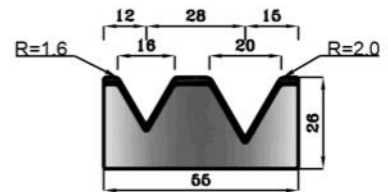
COD 20.330

$\alpha 60^\circ$ | Max. Tn/mt 60



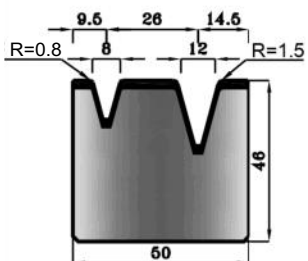
COD 20.170

$\alpha 60^\circ$ | Max. Tn/mt 60

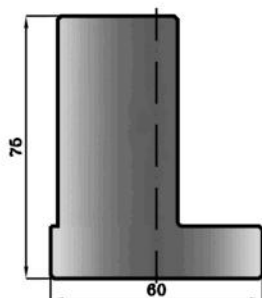


COD 20.470

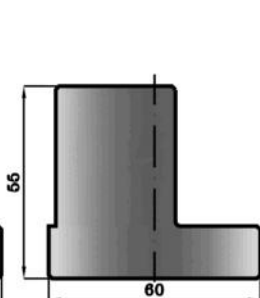
$\alpha 30^\circ$ | Max. Tn/mt 40



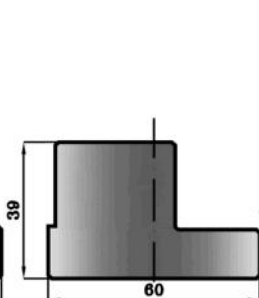
COD 20.350



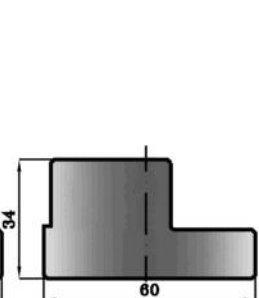
COD 20.190



COD 20.390

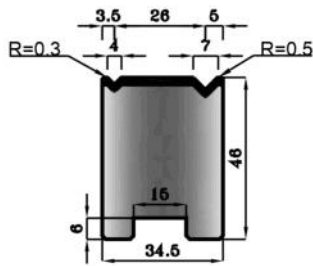


COD 20.180



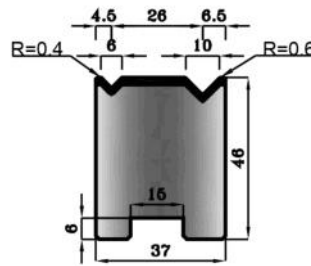
COD 20.480

$\alpha 90^\circ$ | Max. Tn/mt 80



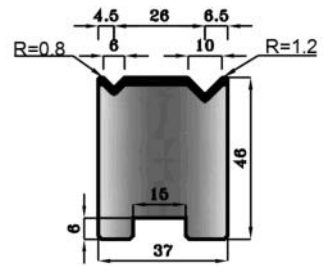
COD 20.490

$\alpha 90^\circ$ | Max. Tn/mt 80



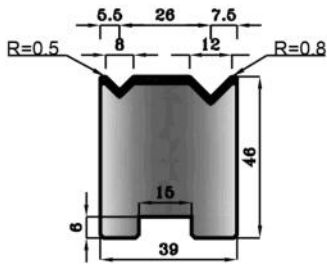
COD 20.500

$\alpha 88^\circ$ | Max. Tn/mt 80



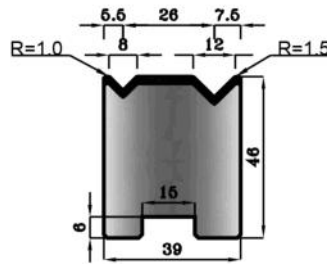
COD 20.510

$\alpha 90^\circ$ | Max. Tn/mt 80



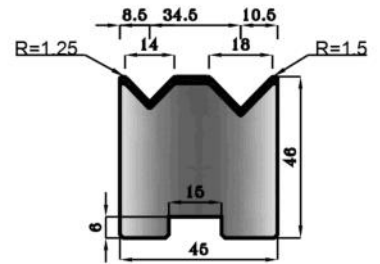
COD 20.520

$\alpha 88^\circ$ | Max. Tn/mt 80



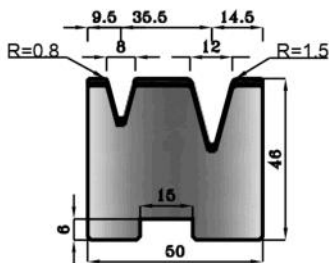
COD 20.530

$\alpha 88^\circ$ | Max. Tn/mt 80



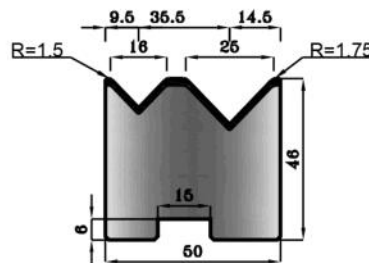
COD 20.560

$\alpha 30^\circ$ | Max. Tn/mt 40



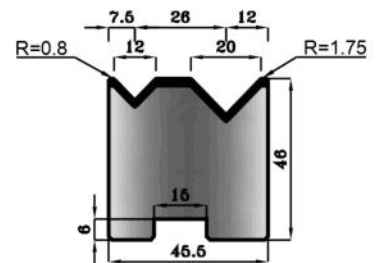
COD 20.550

$\alpha 88^\circ$ | Max. Tn/mt 80



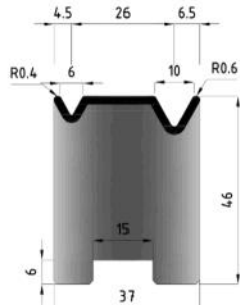
COD 20.540

$\alpha 88^\circ$ | Max. Tn/mt 80

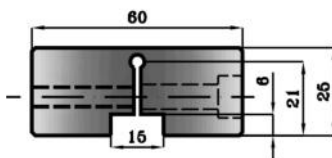


COD 20.610

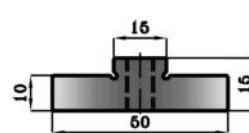
$\alpha 60^\circ$ | Max. Tn/mt 50



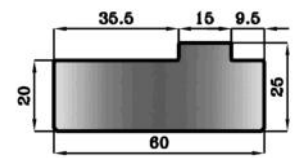
COD 20.600



COD 20.580

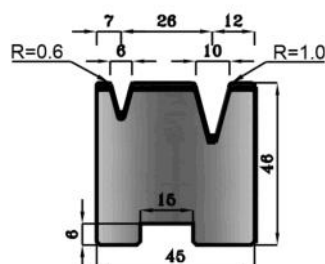


COD 20.590



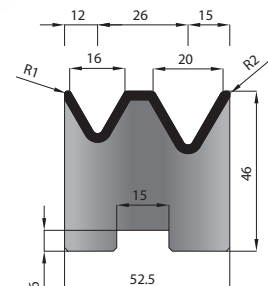
COD 20.570

$\alpha 30^\circ$ | Max. Tn/mt 80



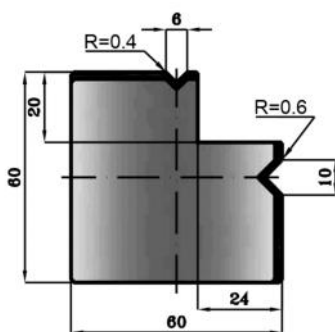
COD 20.620

$\alpha 60^\circ$ | Max. Tn/mt 60



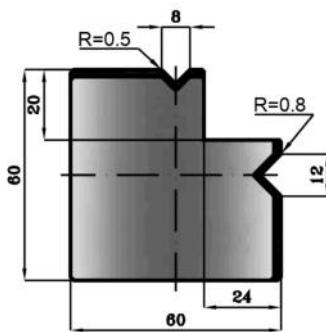
COD 20.280

$\alpha 90^\circ$ | Max. Tn/mt 80



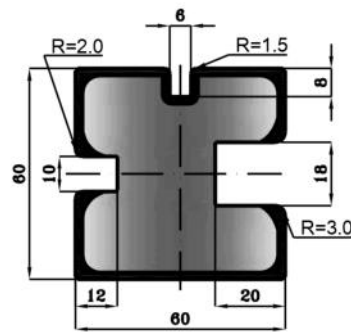
COD 20.290

$\alpha 90^\circ$ | Max. Tn/mt 80



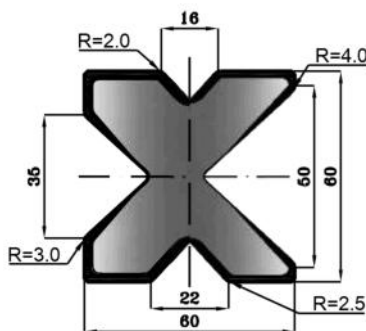
COD 20.310

Max. Tn/mt 100



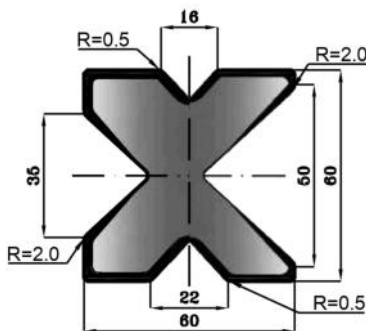
COD 20.670

$\alpha 85^\circ$ | Max. Tn/mt 80



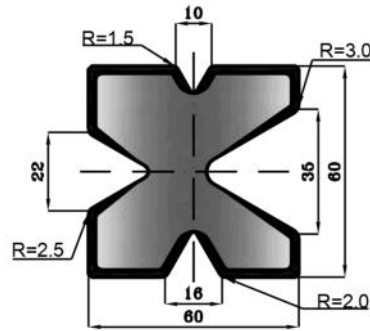
COD 20.300

$\alpha 85^\circ/88^\circ$ | Max. Tn/mt 80



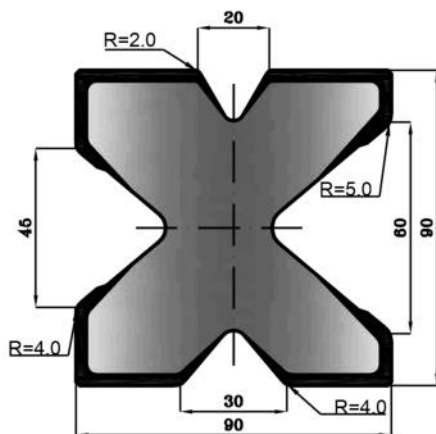
COD 20.340

$\alpha 60^\circ$ | Max. Tn/mt 60



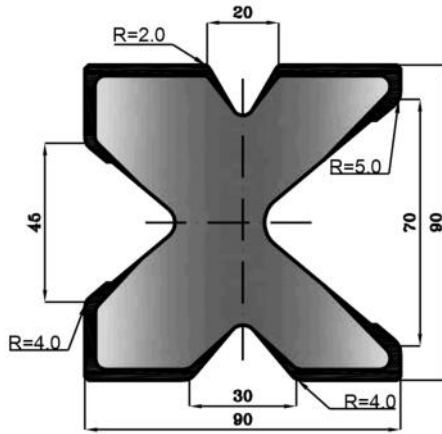
COD 20.671

$\alpha 80^\circ/60^\circ$ | Max. Tn/mt 100



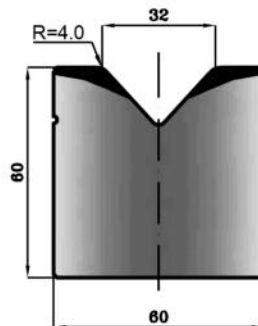
COD 20.672

$\alpha 80^\circ/60^\circ$ | Max. Tn/mt 100



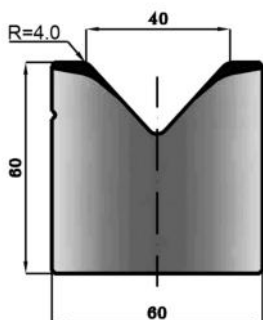
COD 20.200

$\alpha 85^\circ$ | Max. Tn/mt 100



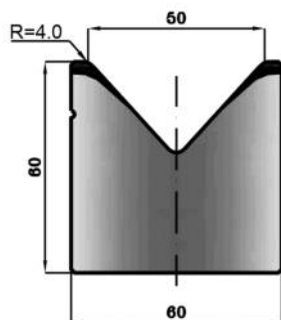
COD 20.210

$\alpha 80^\circ/60^\circ$ | Max. Tn/mt 100



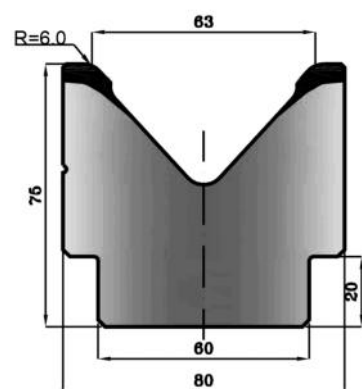
COD 20.220

$\alpha 80^\circ/60^\circ$ | Max. Tn/mt 100



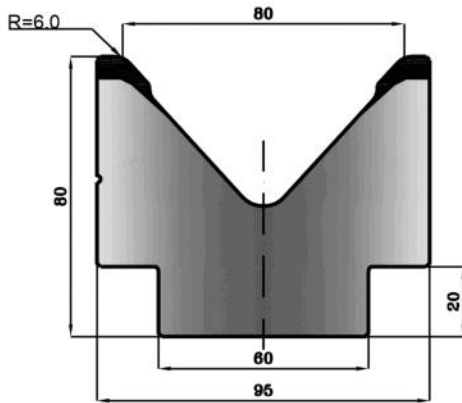
COD 20.230

$\alpha 85^\circ$ | Max. Tn/mt 100



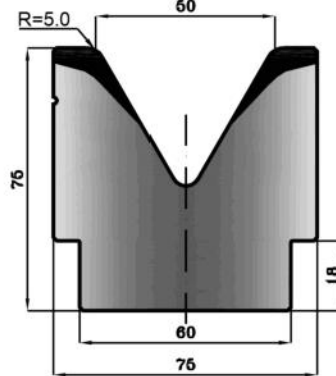
COD 20.240

$\alpha 85^\circ$ | Max. Tn/mt 100



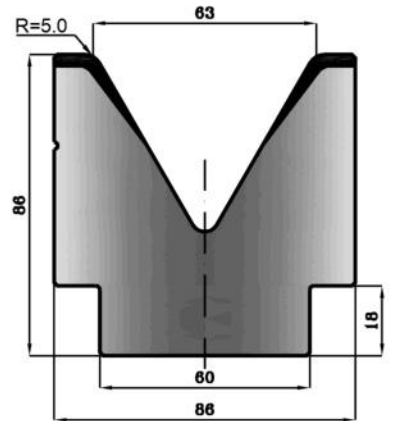
COD 20.820

$\alpha 60^\circ$ | Max. Tn/mt 100



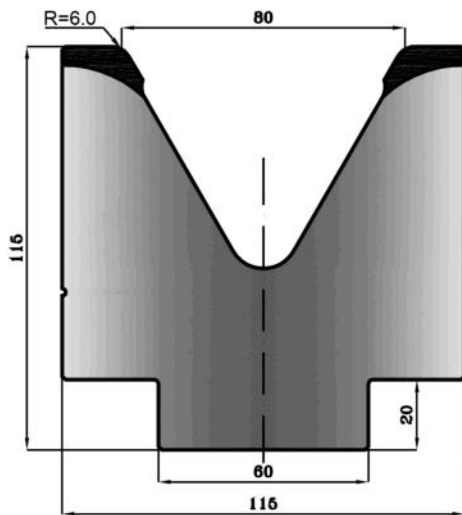
COD 20.830

$\alpha 60^\circ$ | Max. Tn/mt 100



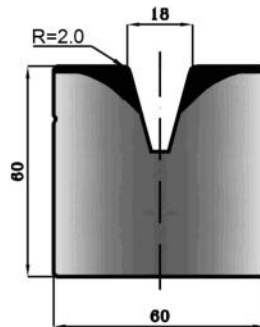
COD 20.890

$\alpha 60^\circ$ | Max. Tn/mt 100



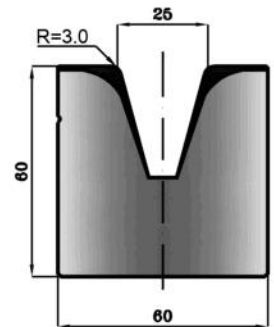
COD 20.860

$\alpha 30^\circ$ | Max. Tn/mt 100



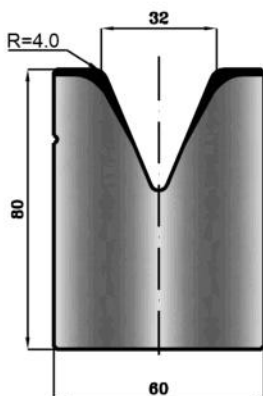
COD 20.870

$\alpha 30^\circ$ | Max. Tn/mt 100



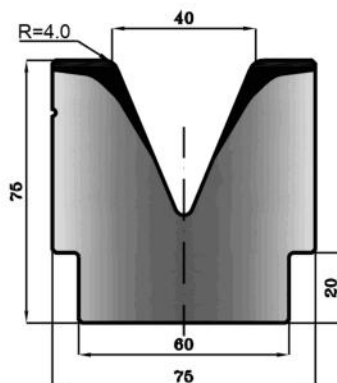
COD 20.880

$\alpha 45^\circ$ | Max. Tn/mt 100



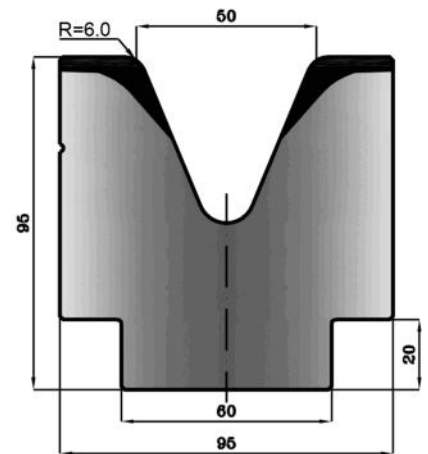
COD 20.810

$\alpha 45^\circ$ | Max. Tn/mt 100



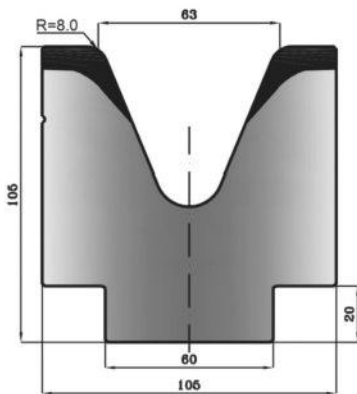
COD 21.180

$\alpha 45^\circ$ | Max. Tn/mt 100



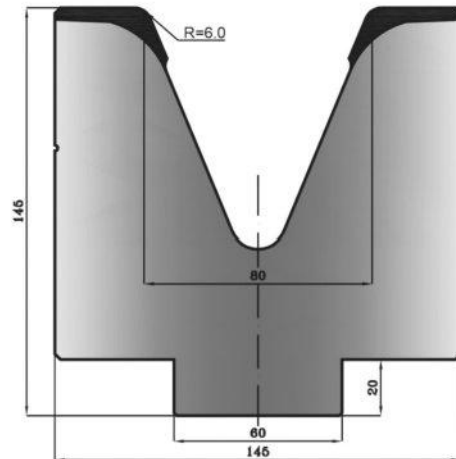
COD 21.170

$\alpha 45^\circ$ | Max. Tn/mt 100



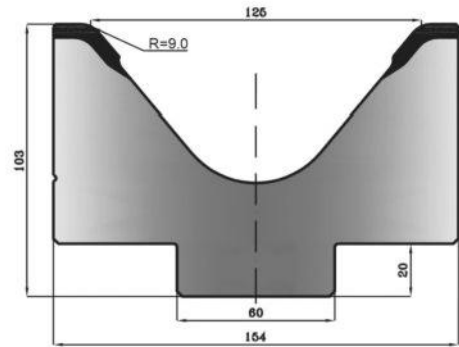
COD 20.840

$\alpha 45^\circ$ | Max. Tn/mt 100



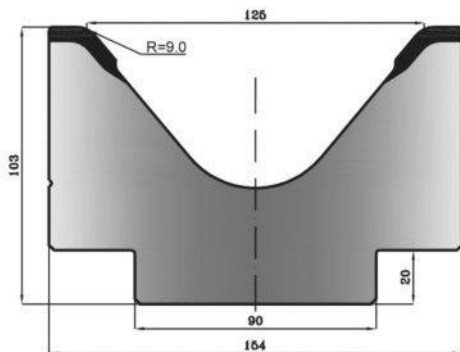
COD 20.261

$\alpha 80^\circ$ | Max. Tn/mt 100



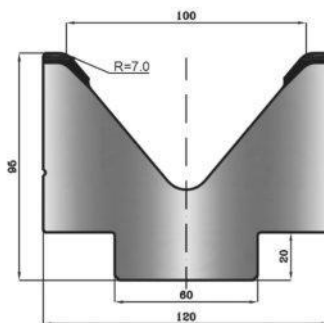
COD 20.260

$\alpha 80^\circ$ | Max. Tn/mt 100



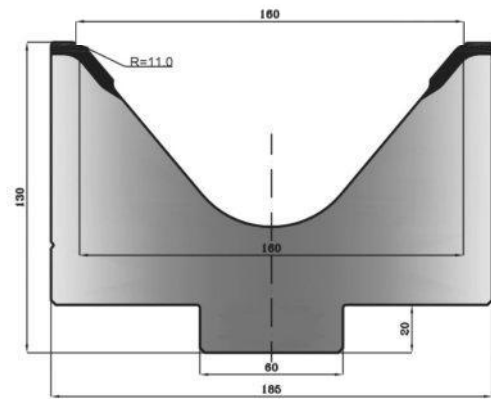
COD 20.250

$\alpha 80^\circ$ | Max. Tn/mt 100



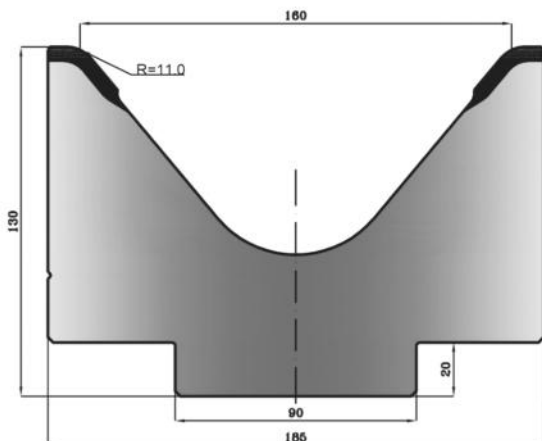
COD 20.271

$\alpha 80^\circ$ | Max. Tn/mt 100



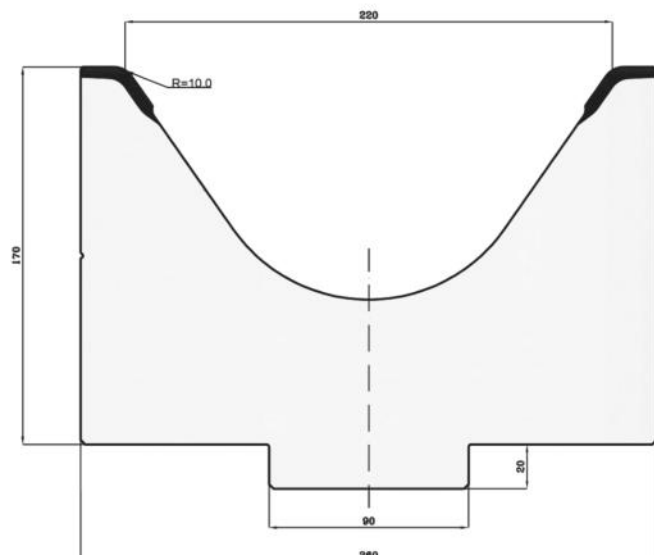
COD 20.270

$\alpha 80^\circ$ | Max. Tn/mt 100



COD 72.900

$\alpha 70^\circ$ | Max. Tn/mt 200



1.2312
TEMPLADO



A 45°

A 30°

A 90°

A 88°

A 60°

A 35°

34

A 90°

COD	V (mm)	R(mm)	Tn/mt	S (mm)
30.500	6	0.4	100	14
30.510	8	0.5	100	14
30.520	10	0.6	100	18
30.530	12	0.8	100	18
30.540	16	1.0	100	24

A 88°

COD	V (mm)	R(mm)	Tn/mt	S (mm)
30.830	6	0.4	100	14
30.840	8	0.5	100	14
30.850	10	0.6	100	18
30.550	12	2.75	100	18
30.560	16	2.75	100	24
30.570	20	3.0	100	30
30.580	25	3.0	100	35

A 60°

COD	V (mm)	R(mm)	Tn/mt	S (mm)
30.590	6	0.4	60	14
30.600	8	0.5	60	14
30.610	10	0.6	60	18
30.620	12	0.8	60	18
30.630	16	3.0	60	24
30.640	20	3.0	60	30
30.650	25	3.0	60	35

A 35°

COD	V (mm)	R(mm)	Tn/mt	S (mm)
30.731	6	1.5	40	14
30.732	8	2.0	40	18
30.733	10	2.5	55	24
30.734	12	3.0	45	24
30.735	16	3.5	50	30
30.736	20	4.0	60	35
30.737	25	5.0	60	40



A 85°

COD	V (mm)	R(mm)	Tn/mt	S (mm)
30.831	6	1.5	100	14
30.832	8	2.0	100	14
30.833	10	2.5	100	18
30.834	12	3.0	100	18
30.835	16	3.5	100	24
30.836	20	4.0	100	30
30.837	25	5.0	100	35

A 45°

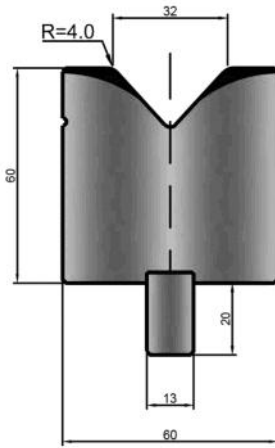
COD	V (mm)	R(mm)	Tn/mt	S (mm)
30.660	6	0.6	50	14
30.670	8	0.8	50	18
30.680	10	1.0	50	18
30.690	12	1.5	50	24
30.700	16	2.0	50	24
30.710	20	2.5	50	30
30.720	25	3.0	50	35

A 30°

COD	V (mm)	R(mm)	Tn/mt	S (mm)
30.730	6	0.6	35	14
30.740	8	0.8	35	18
30.750	10	1.0	50	24
30.760	12	1.5	40	24
30.770	16	2.0	45	30
30.780	20	2.5	50	35
30.790	25	3.0	50	40

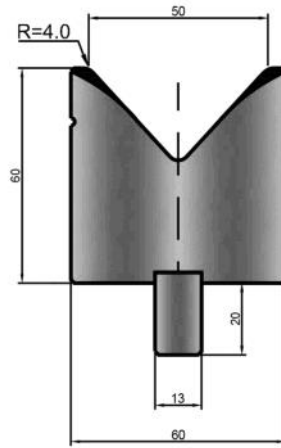
COD 20.200-B

Tn/mt 100



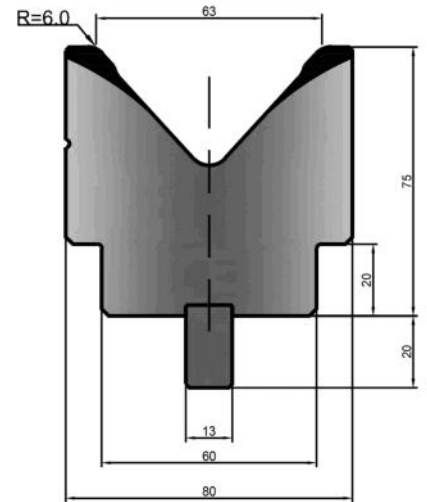
COD 20.220-B

Tn/mt 100



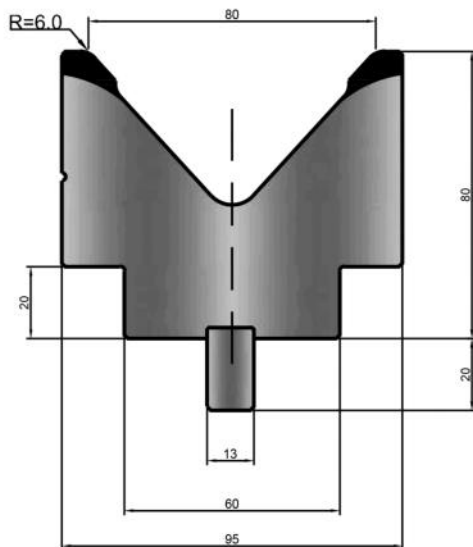
COD 20.230-B

Tn/mt 100



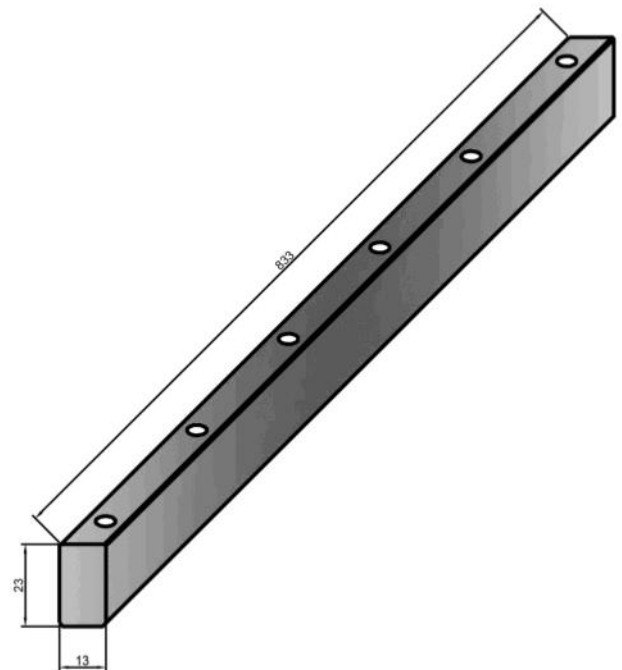
COD 20.240-B

Tn/mt 100



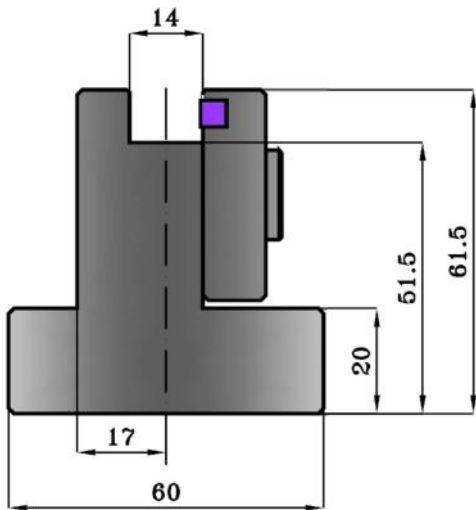
COD 10.431

Tn/mt 100

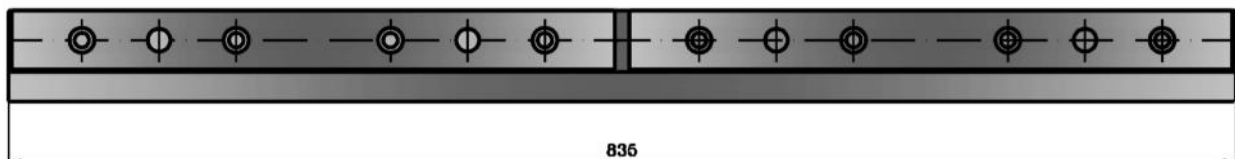
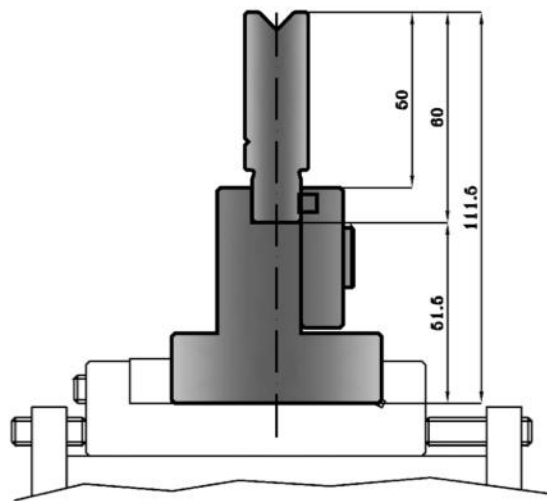


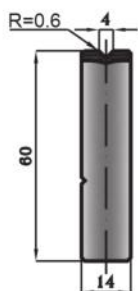
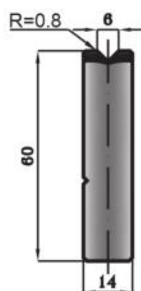
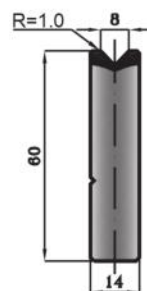
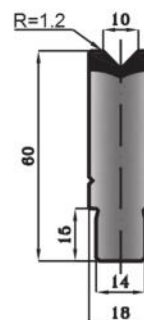
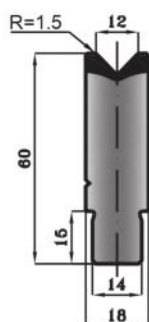
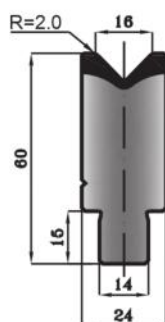
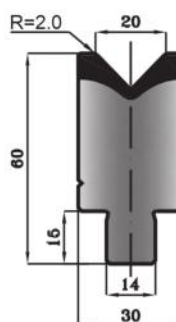
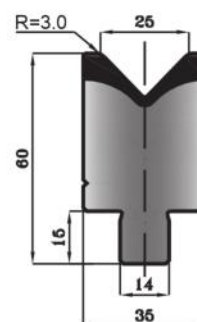
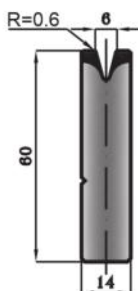
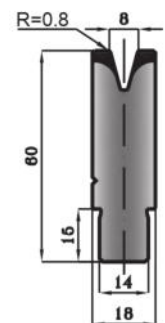
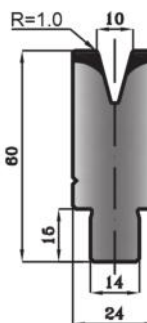
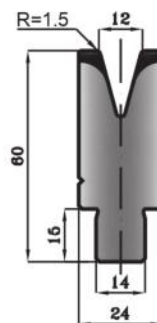
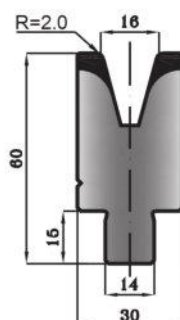
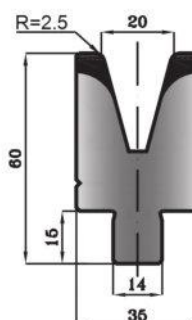
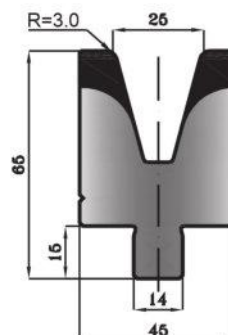
COD 31.730

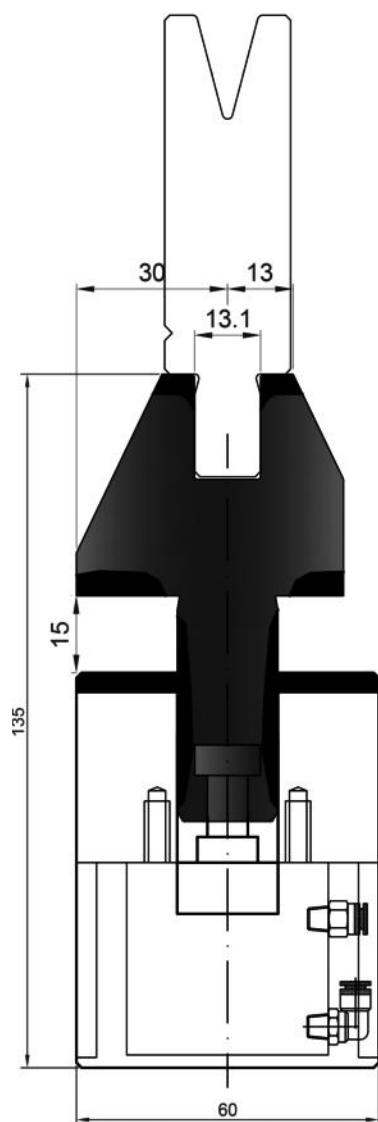
L=835mm
L=415mm



SOPORTES PARA INSERTOS DE MATRIZ
INSERT DIE HOLDERS



COD AM.804
 $\alpha 88^\circ$ | Max. Tn/mt 100

COD AM.806
 $\alpha 88^\circ$ | Max. Tn/mt 100

COD AM.808
 $\alpha 88^\circ$ | Max. Tn/mt 100

COD AM.810
 $\alpha 88^\circ$ | Max. Tn/mt 100

COD AM.812
 $\alpha 88^\circ$ | Max. Tn/mt 100

COD AM.816
 $\alpha 88^\circ$ | Max. Tn/mt 100

COD AM.820
 $\alpha 88^\circ$ | Max. Tn/mt 100

COD AM.825
 $\alpha 88^\circ$ | Max. Tn/mt 100

COD AM.306
 $\alpha 30^\circ$ | Max. Tn/mt 35

COD AM.308
 $\alpha 30^\circ$ | Max. Tn/mt 35

COD AM.310
 $\alpha 30^\circ$ | Max. Tn/mt 50

COD AM.312
 $\alpha 30^\circ$ | Max. Tn/mt 40

COD AM.316
 $\alpha 30^\circ$ | Max. Tn/mt 45

COD AM.320
 $\alpha 30^\circ$ | Max. Tn/mt 50

COD AM.325
 $\alpha 30^\circ$ | Max. Tn/mt 50




AMADA-PROMECAM

COD 30.390

$\alpha 35^\circ$ | Max. Tn/mt 80

AMADA-PROMECAM/
WILA-TRUMPF

COD 30.415/PN

Max. Tn/mt 100

AMADA-PROMECAM

COD 30.410

Max. Tn/mt 80

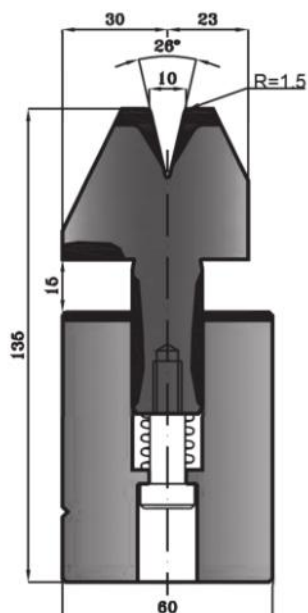
Material ~ 40Kg/mm ²				
S (mm)	Tn/mt	A(mm)	Tn/mt	2S (mm)
0.6	9	3	23	1.2
0.8	12	3	32	1.6
1.0	15	3.5	40	2.0
1.25	17	3.5	50	2.5
1.5	22	4.6	63	3.0
2.0	30	5.5	80	4.0
2.5	55	6.5	90	5.0
3.0	70	8.0	100	6.0

Material ~ 70Kg/mm ²				
S (mm)	Tn/mt	A(mm)	Tn/mt	2S (mm)
0.6	15	3	35	1.2
0.8	20	3	50	1.6
1.0	25	3.5	60	2.0
1.25	26	3.5	80	2.5
1.5	38	4.6	95	3.0
2.0	50	5.5	130	4.0

AMADA-PROMECAM

COD 30.380

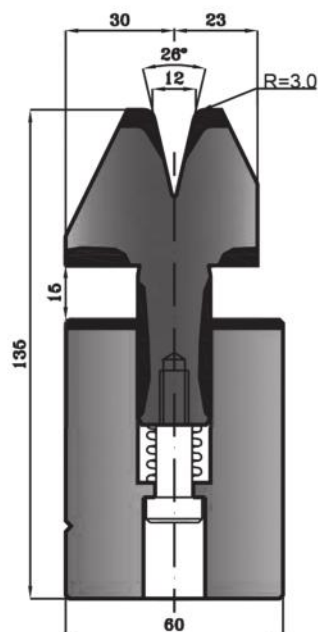
$\alpha 26^\circ$ | Max. Tn/mt 100



AMADA-PROMECAM

COD 30.400

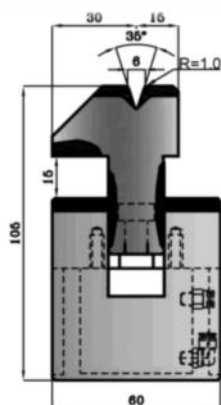
$\alpha 26^\circ$ | Max. Tn/mt 100



AMADA-PROMECAM

COD 30.390/PN

$\alpha 35^\circ$ | Max. Tn/mt 60



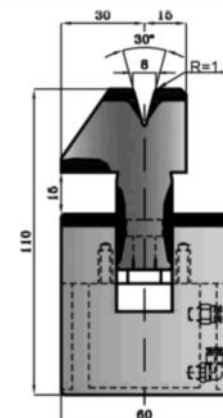
Material ~ 40Kg/mm²

S (mm)	Tn/mt	A(mm)	Tn/mt	2S (mm)
0.6	9	3	23	1.2
0.8	12	3	32	1.6
1.0	15	3.5	40	2.0
1.25	17	3.5	50	2.5
1.5	22	4.6	63	3.0
2.0	30	5.5	80	4.0
2.5	55	6.5	90	5.0
3.0	70	8.0	100	6.0

AMADA-PROMECAM

COD 30.410/PN

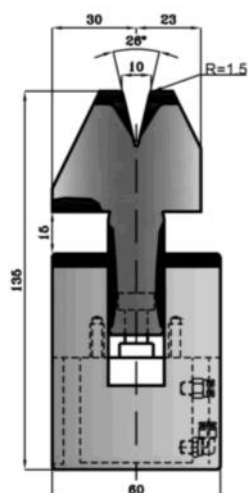
$\alpha 30^\circ$ | Max. Tn/mt 80



AMADA-PROMECAM

COD 30.380/PN

$\alpha 26^\circ$ | Max. Tn/mt 100



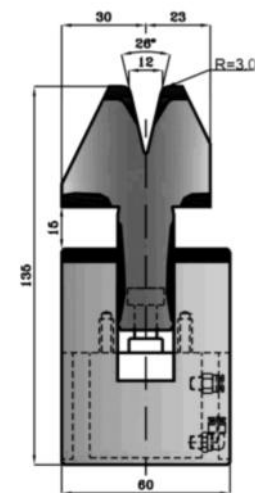
Material ~ 70Kg/mm²

S (mm)	Tn/mt	A(mm)	Tn/mt	2S (mm)
0.6	15	3	35	1.2
0.8	20	3	50	1.6
1.0	25	3.5	60	2.0
1.25	26	3.5	80	2.5
1.5	38	4.6	95	3.0
2.0	50	5.5	130	4.0

AMADA-PROMECAM

COD 30.400/PN

$\alpha 26^\circ$ | Max. Tn/mt 100



AMADA-PROMECAM

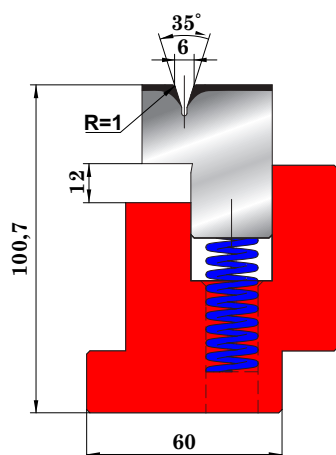
COD 43.130



AMADA-PROMECAM

COD 30.370/6

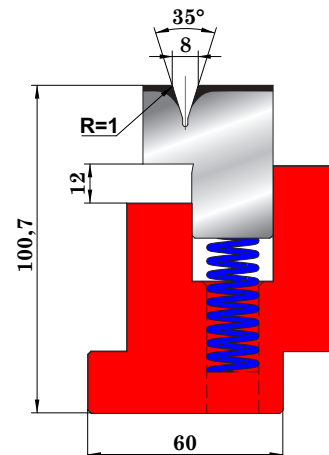
$\alpha 35^\circ$ | Max. Tn/mt 60



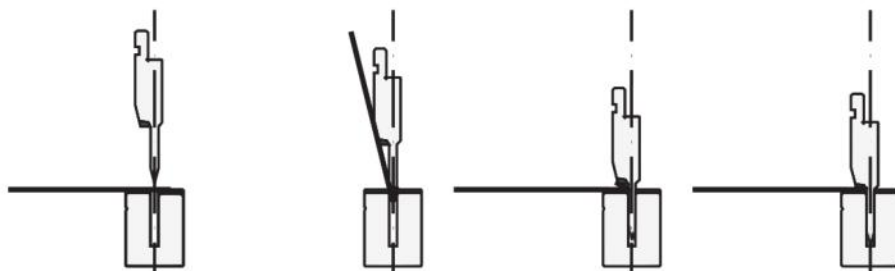
AMADA-PROMECAM

COD 30.370/8

$\alpha 35^\circ$ | Max. Tn/mt 60



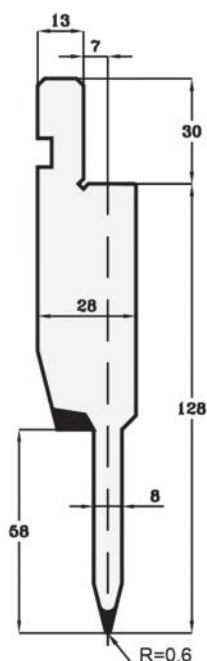
L=835
L=415
L=805 S



AMADA-PROMECAM

COD 11.950

$\alpha 28^\circ$ | Max. Tn/mt 80

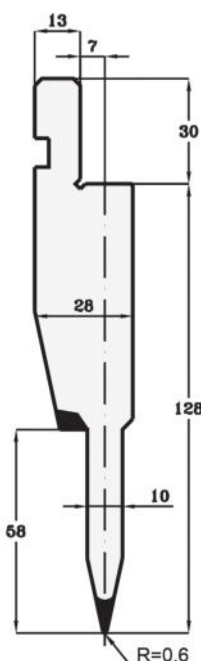


1.2312
TEMPLADO

AMADA-PROMECAM

COD 11.960

$\alpha 24^\circ$ | Max. Tn/mt 80

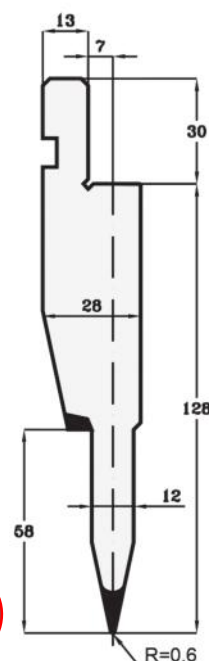


1.2312
TEMPLADO

AMADA-PROMECAM

COD 11.970

$\alpha 24^\circ$ | Max. Tn/mt 80

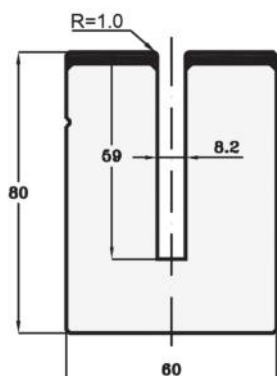


1.2312
TEMPLADO

AMADA-PROMECAM

COD 31.760

Max. Tn/mt 50

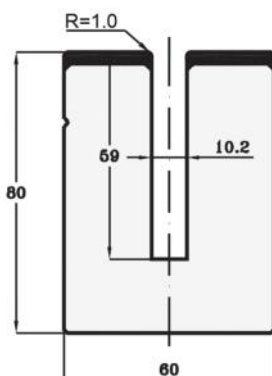


1.2312
TEMPLADO

AMADA-PROMECAM

COD 31.770

Max. Tn/mt 50

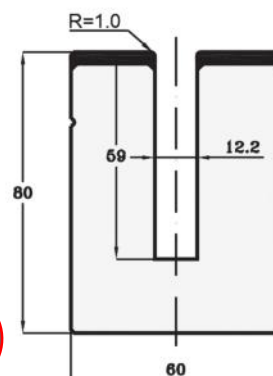


1.2312
TEMPLADO

AMADA-PROMECAM

COD 31.780

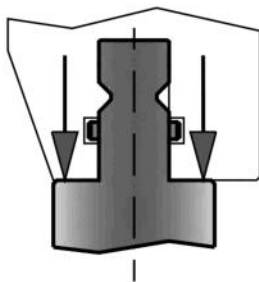
Max. Tn/mt 50



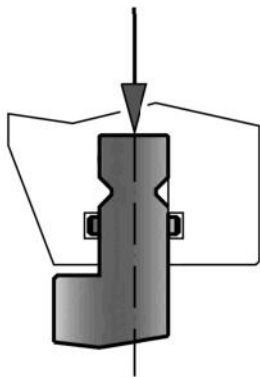
1.2312
TEMPLADO

AMADA PROMECAM®

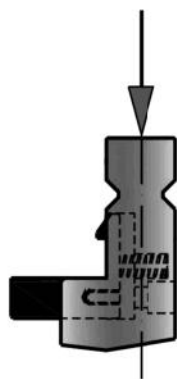
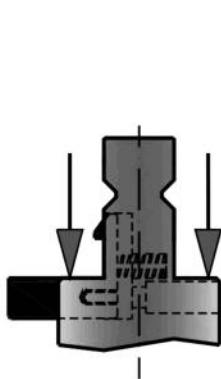
PRESIÓN SOBRE HOMBROS
PRESURE ON THE SHOULDERS

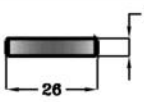


PRESIÓN SOBRE CABEZA
PRESURE ON THE HEAD



CON SAFETY CLICK
WITH SAFETY CLICK



PULSADOR CAMBIO RÁPIDO FAST CHANGE BOTTOM		
12.333 12.370		80.202
12.332 12.380		80.203
12.331 12.340 12.350		80.204
12.941 13.020 13.030 12.335 12.950 10.444		80.205
12.334 12.330 12.360		80.206
12.940 12.943		80.207
		80.208

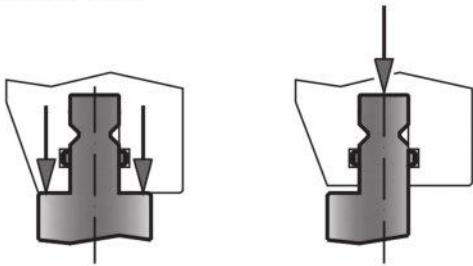
12.942 - 12.943, LARGO 500mm NO ESTÁ DISPONIBLE
12.942 - 12.943, LENGTH 500mm IS NOT AVAILABLE

PUNZONES / PUNCHES

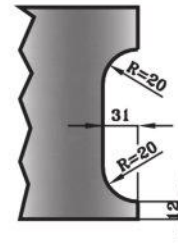
LOS PUNZONES ESTÁNDAR ESTAN DISPONIBLES EN LARGOS 500mm Y FRACCIONADO DE 550mm
STANDARD PUNCHES ARE AVAILABLE LENGTHS IN 500mm AND 550mm SEGMENTATION

PRESIÓN SOBRE HOMBROS
PRESSURE ON THE SHOULDERS

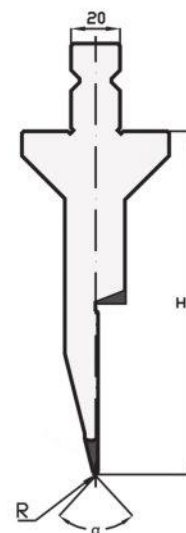
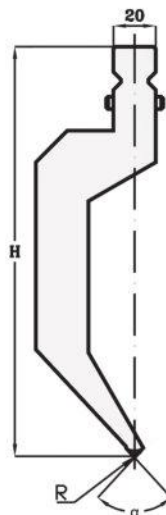
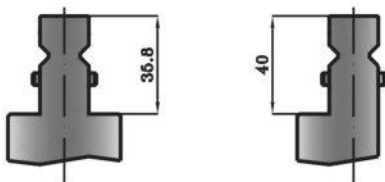
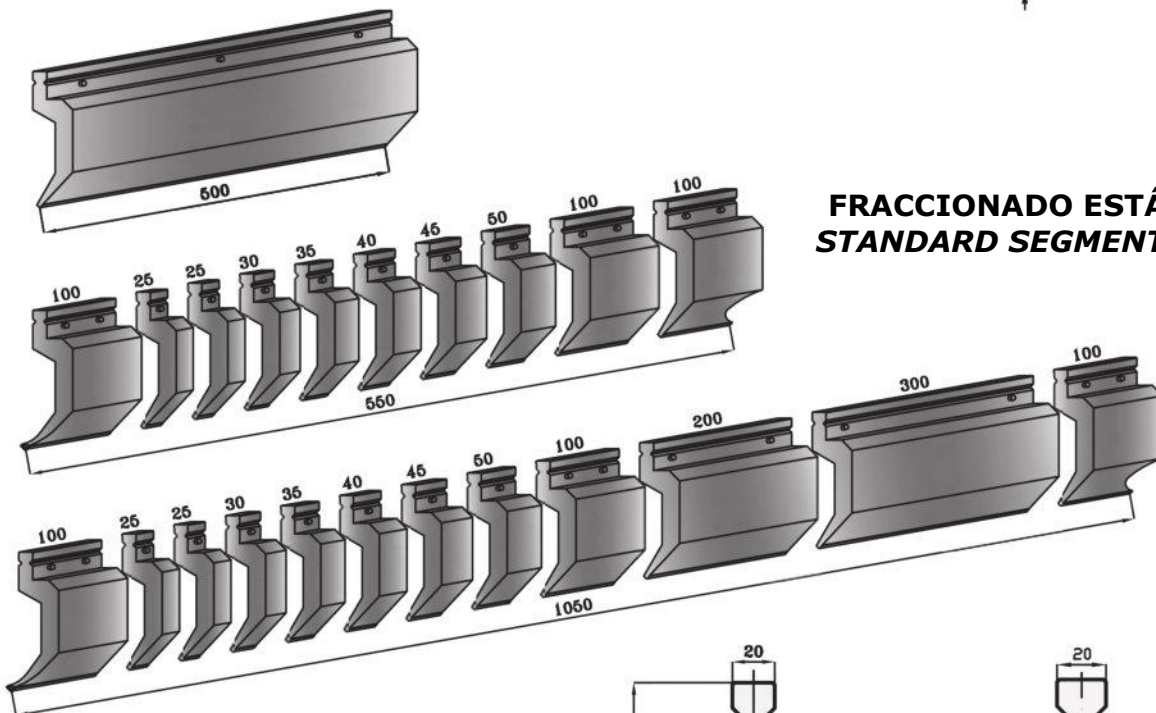
PRESIÓN SOBRE CABEZA
PRESSURE ON THE HEAD



BIGORNIA FRACCIONADO ESTÁNDAR
STANDARD HORN



FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION



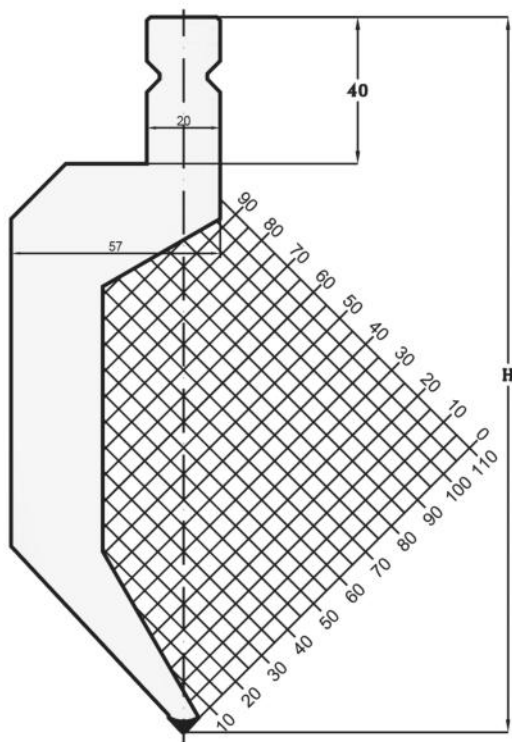
LEYENDA / DESCRIPTION

H = ALTURA PUNZÓN / PUNCH HEIGHT

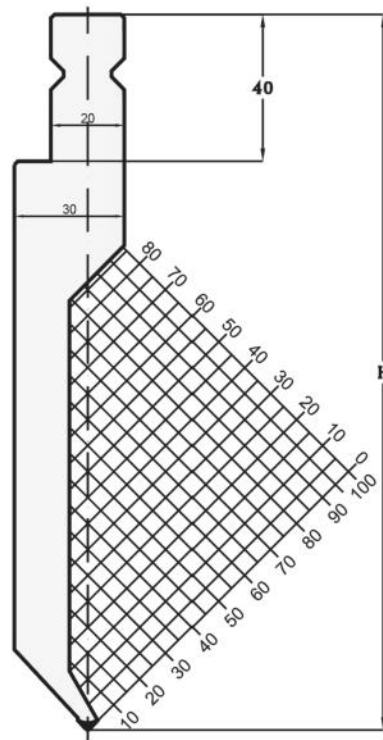
α = ÁNGULO PUNZÓN / PUNCH DEGREE

R = RADIO PUNZÓN / PUNCH RADIUS

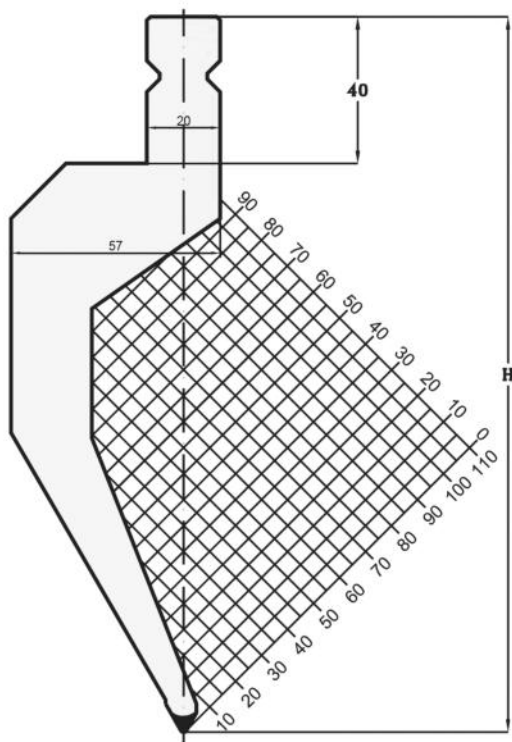
COD	α	R	H	MAX Tn/mt
12.330	86°	0.80	195.00	40



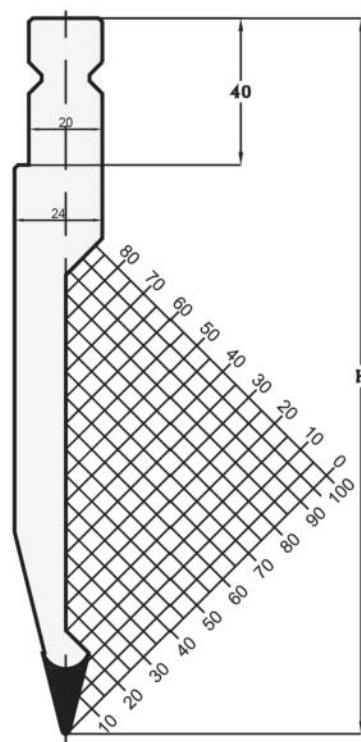
COD	α	R	H	MAX Tn/mt
12.340	86°	0.60	195.00	30



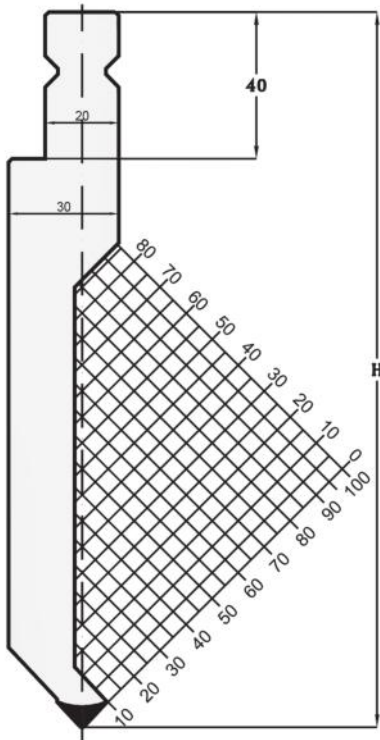
COD	α	R	H	MAX Tn/mt
12.360	60°	0.80	195.00	40



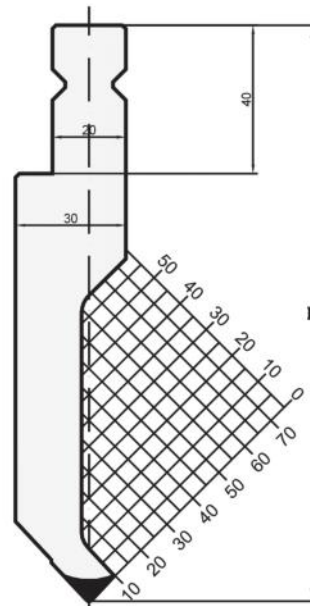
COD	α	R	H	MAX Tn/mt
12.380	28°	1.00	195.00	80



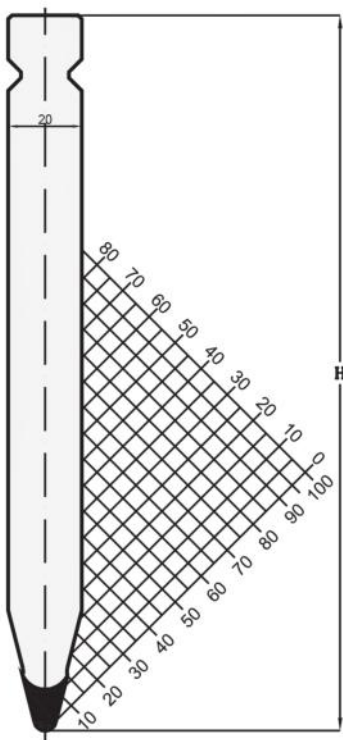
COD	α	R	H	MAX Tn/mt
12.350	86°	0.80	195.00	80



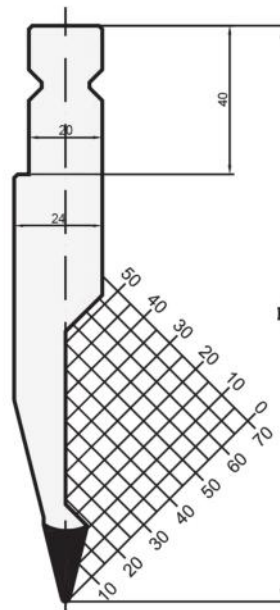
COD	α	R	H	MAX Tn/mt
12.331	86°	1.00	157.00	80



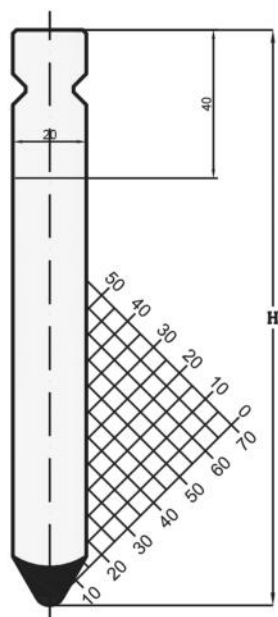
COD	α	R	H	MAX Tn/mt
12.370	28°	3.00	195.00	100



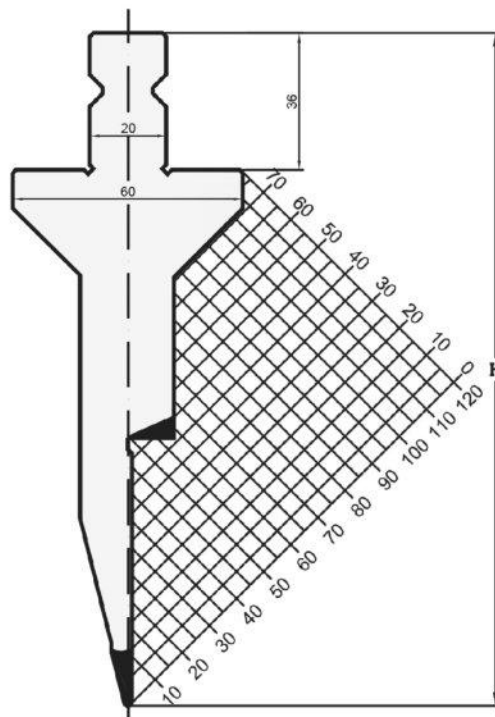
COD	α	R	H	MAX Tn/mt
12.332	28°	1.00	157.00	80



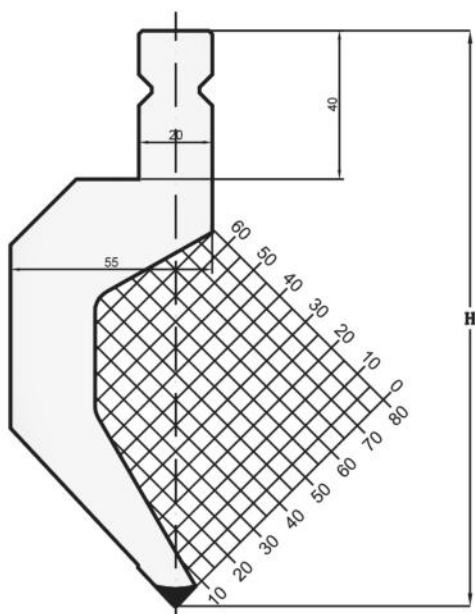
COD	α	R	H	MAX Tn/mt
12.333	60°	4.00	157.00	130



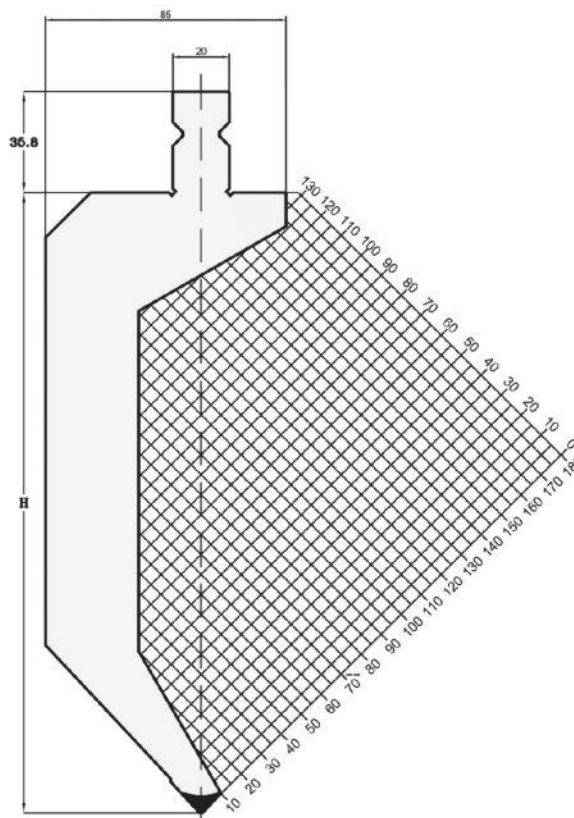
COD	α	R	H	MAX Tn/mt
12.335	28°	1.00	176.00	40



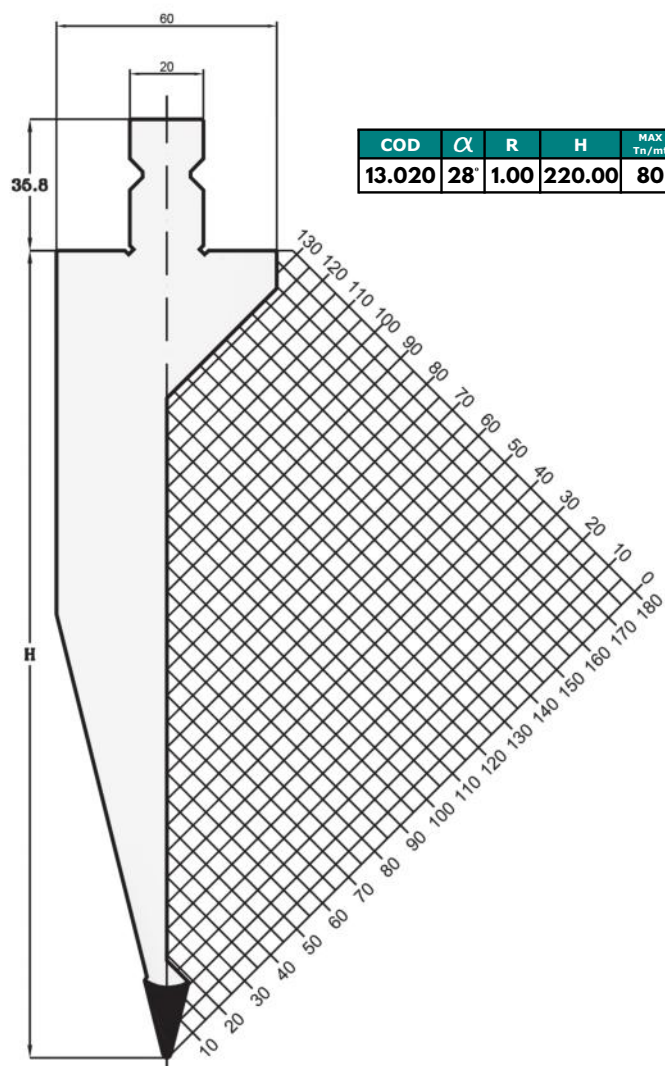
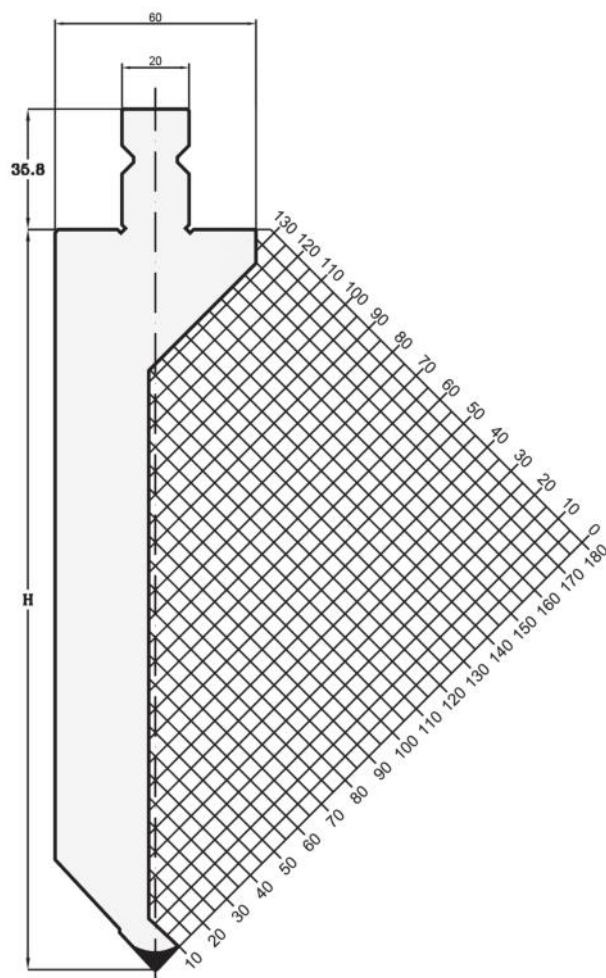
COD	α	R	H	MAX Tn/mt
12.334	86°	1.00	157.00	80



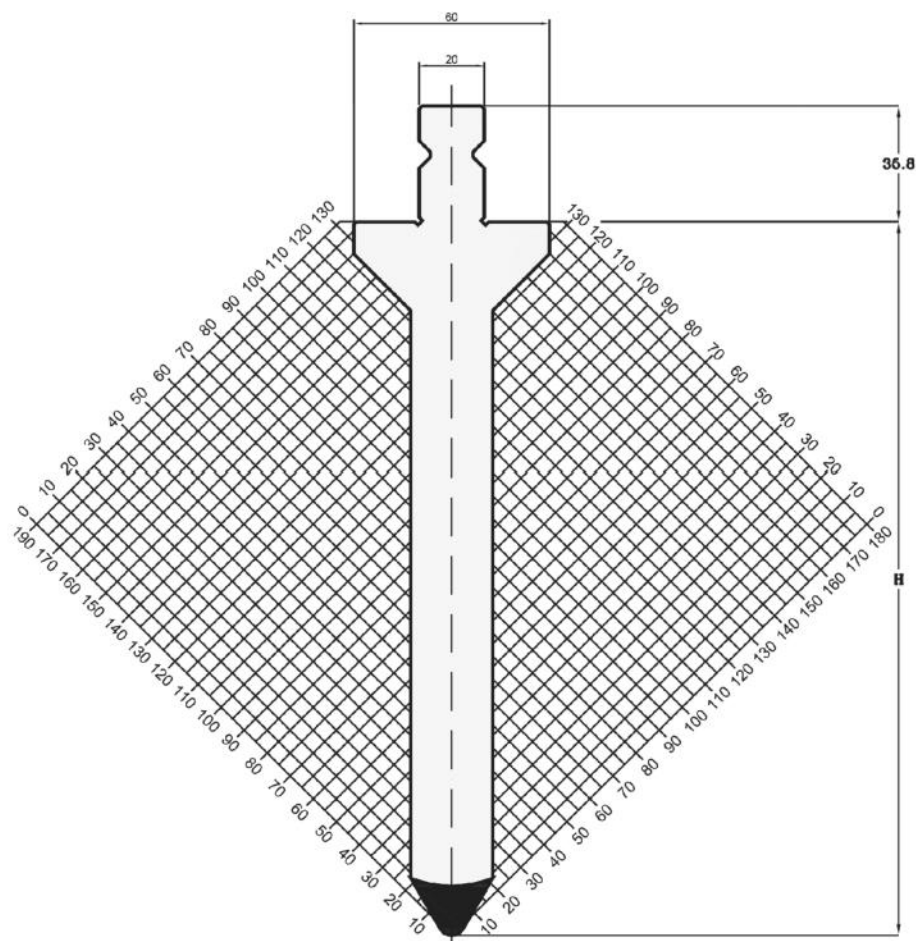
COD	α	R	H	MAX Tn/mt
12.940	86°	1.00	220.00	60



COD	α	R	H	MAX Tn/mt
12.941	86°	1.00	220.00	80

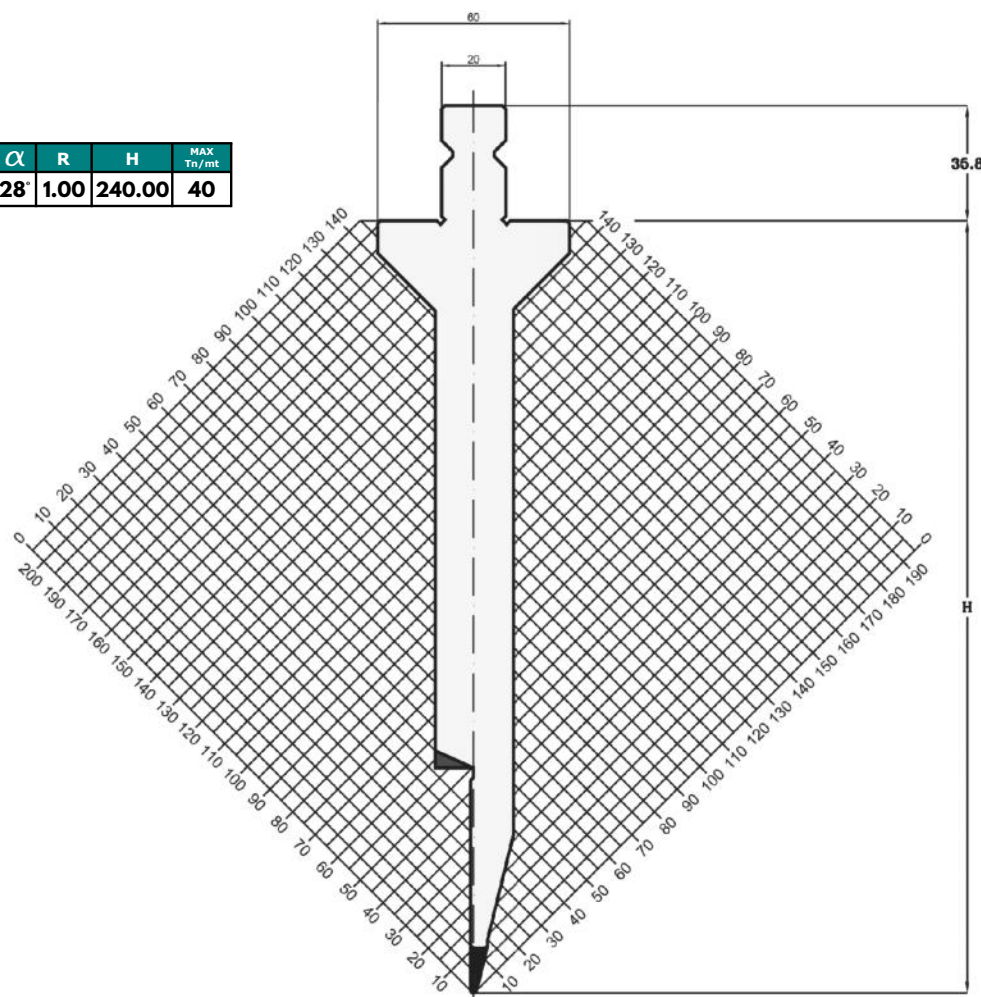


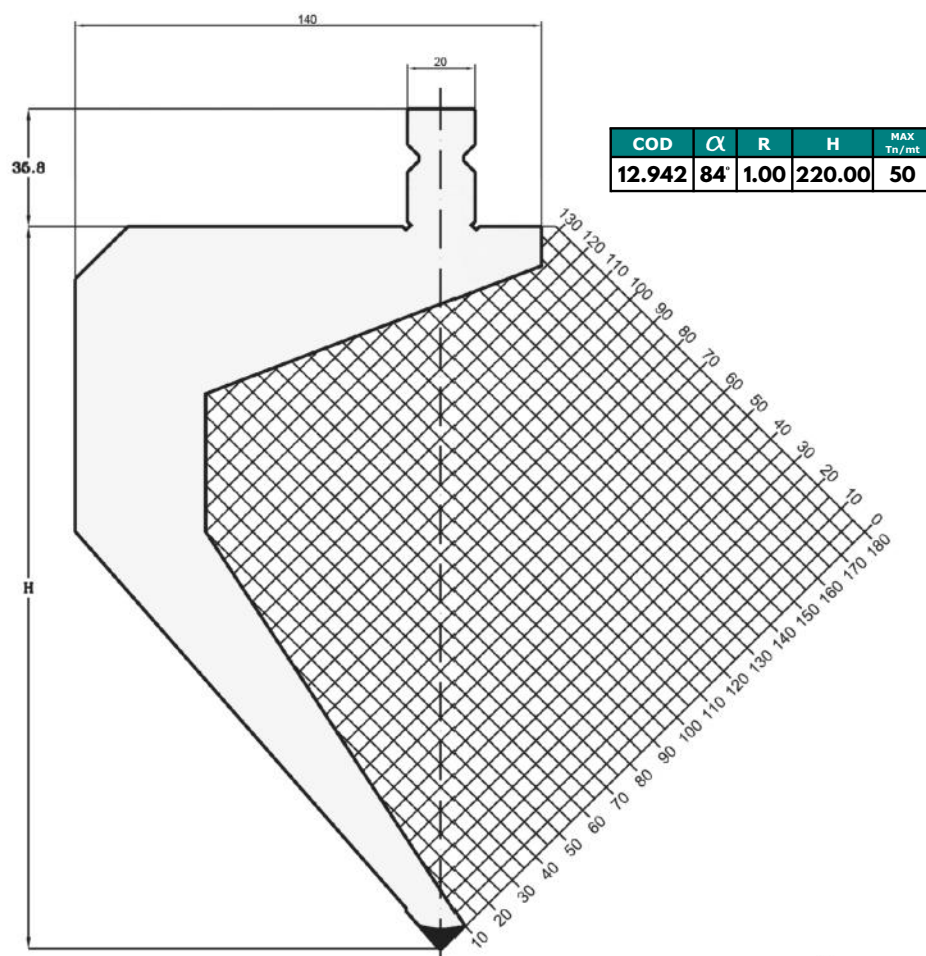
COD	α	R	H	MAX Tn/mt
13.020	28°	1.00	220.00	80



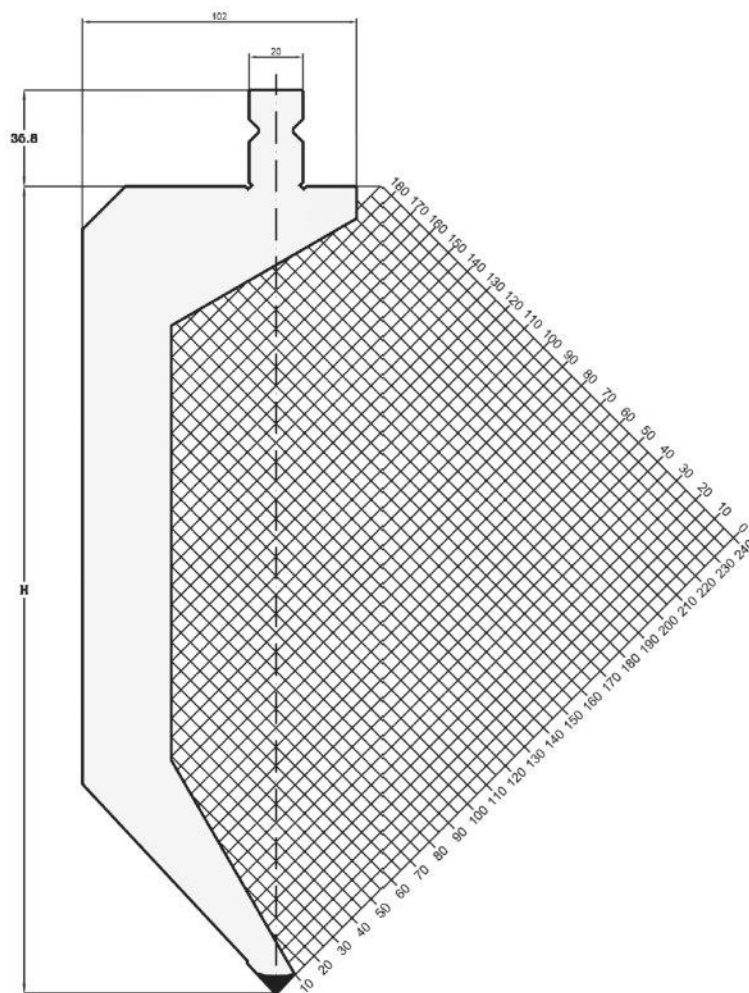
COD	α	R	H	MAX Tn/mt
13.030	60°	4.00	220.00	100

COD	α	R	H	MAX Tn/mt
12.950	28°	1.00	240.00	40

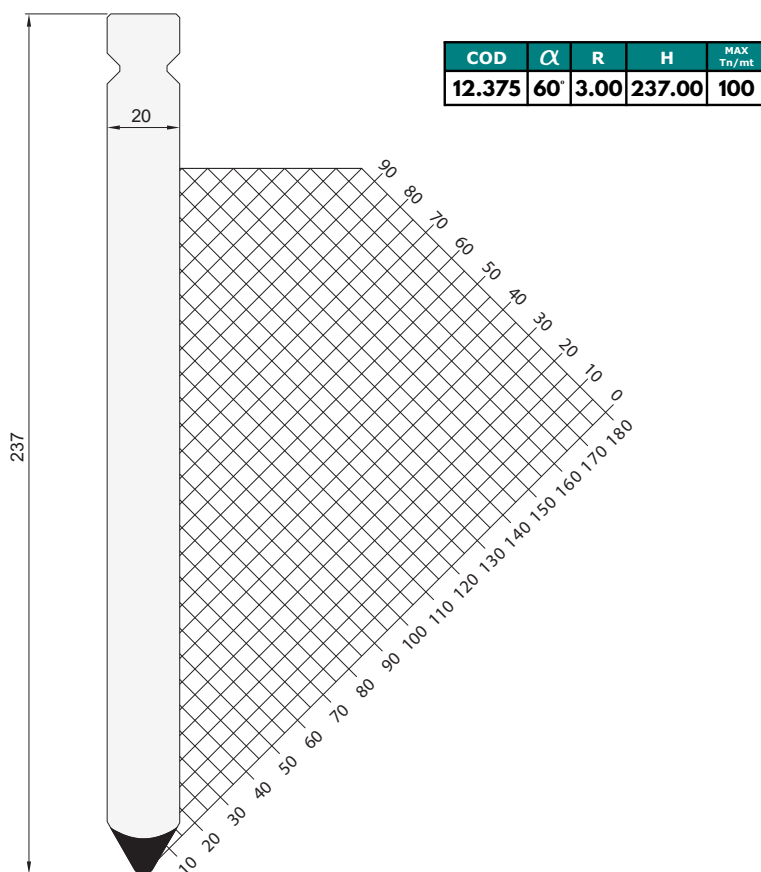




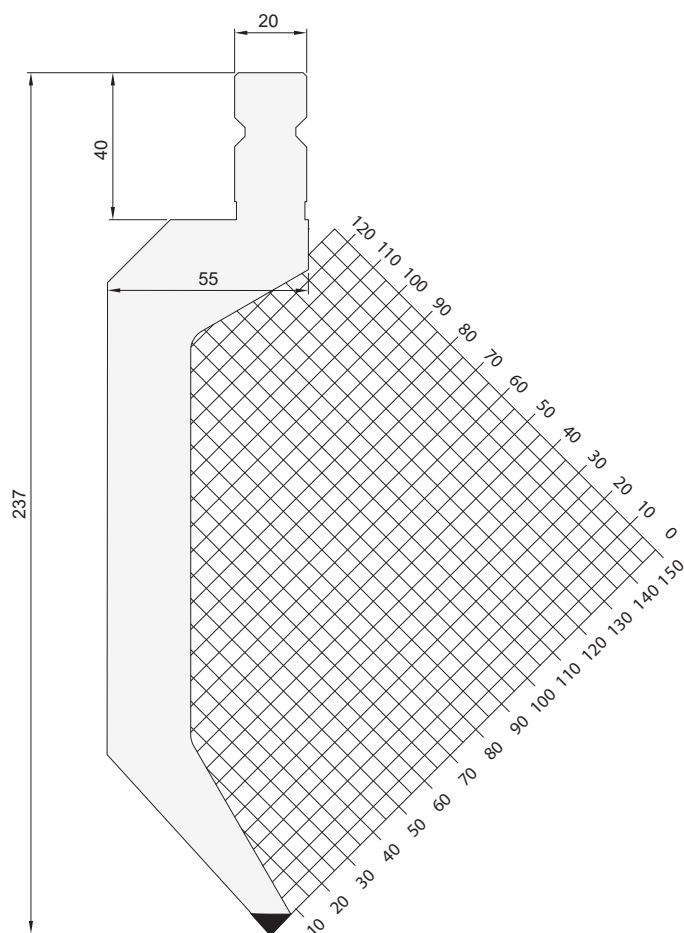
COD	α	R	H	MAX Tn/mt
12.943	86°	1.00	300.00	40

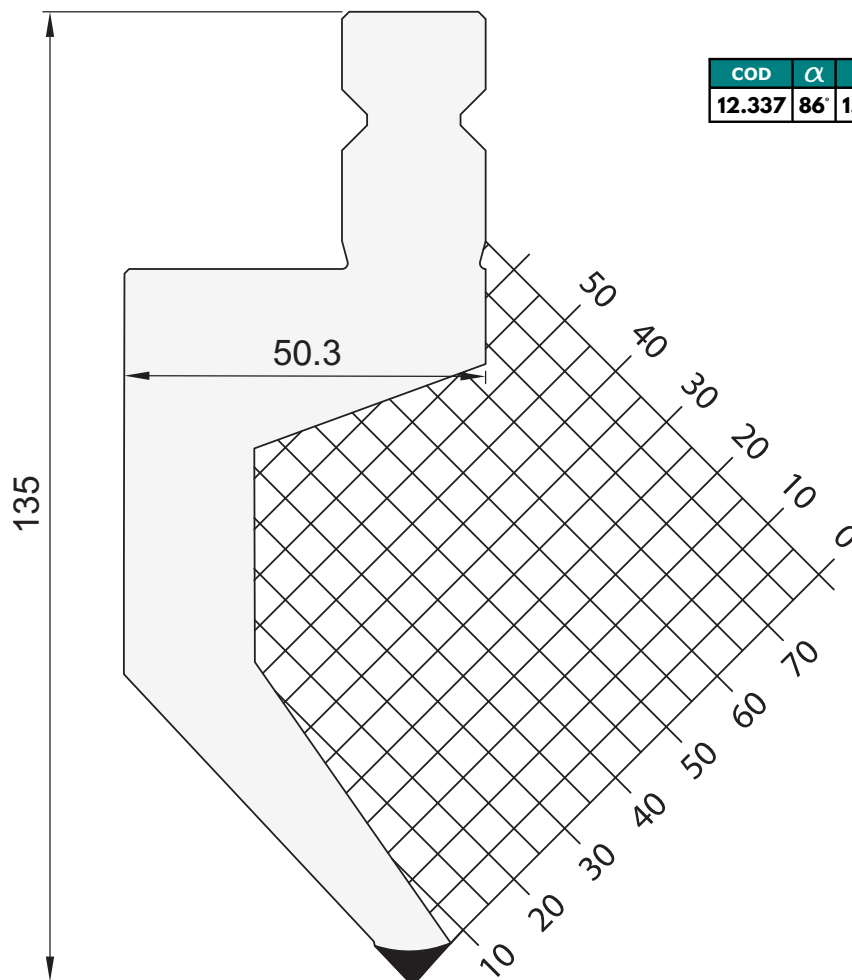


WILA TRUMPF®



COD	α	R	H	MAX Tn/mt
12.336	86°	1.00	237.00	50

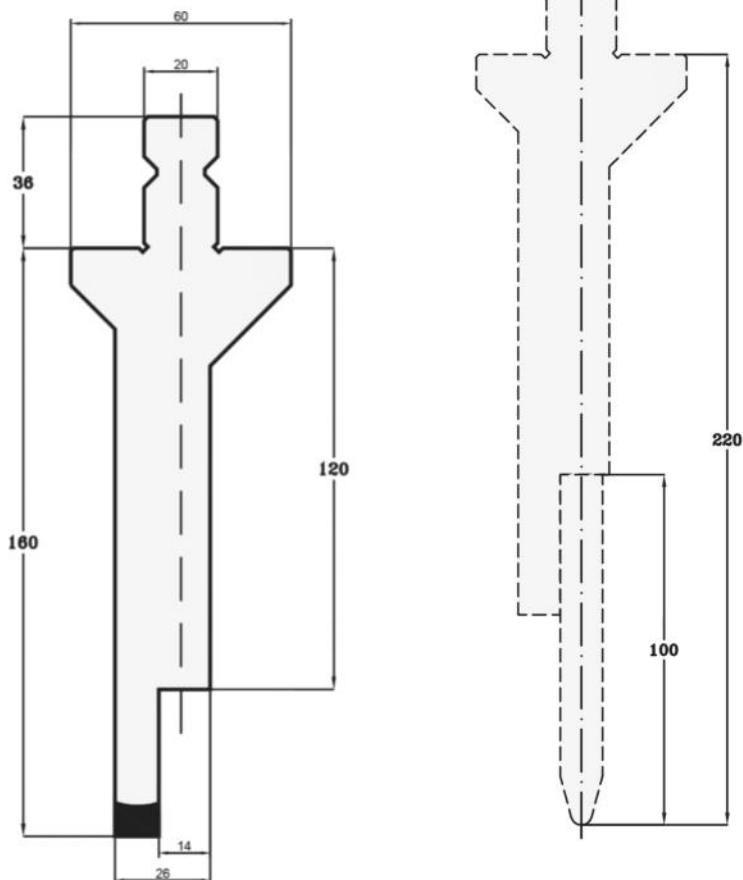




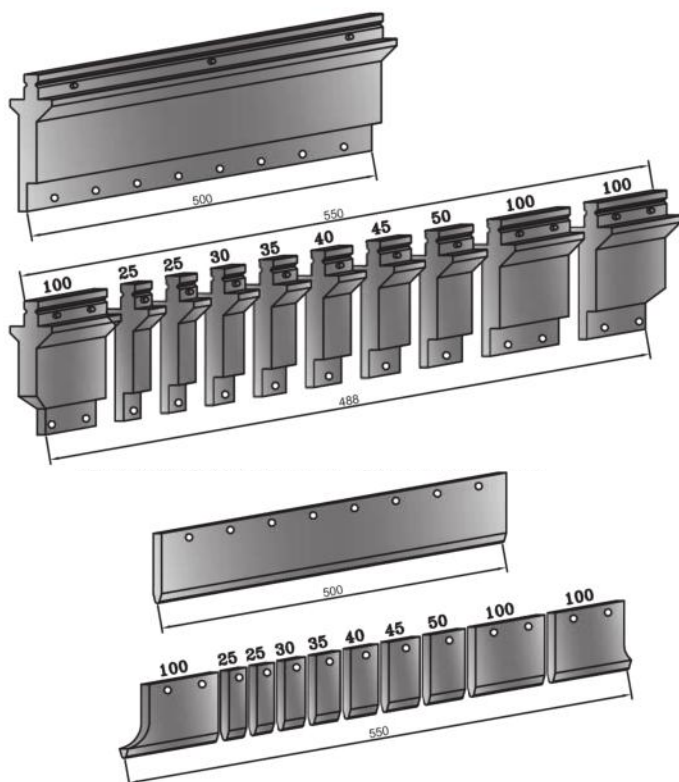
COD	α	R	H	MAX Tn / mt
12.337	86°	1.00	135.00	45

WILA TRUMPF®

COD	MAX Tn/mt
10.444	100



**FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION**



COD 13.500

$\alpha 28^\circ$ | R 0.50 | H 100.00 | Max. Tn/mt 100

COD 13.501

$\alpha 28^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.502

$\alpha 28^\circ$ | R 2.00 | H 100.00 | Max. Tn/mt 100

COD 13.503

$\alpha 28^\circ$ | R 3.00 | H 100.00 | Max. Tn/mt 100

COD 13.504

$\alpha 28^\circ$ | R 4.00 | H 100.00 | Max. Tn/mt 100

COD 13.505

$\alpha 28^\circ$ | R 5.00 | H 100.00 | Max. Tn/mt 100

COD 13.506

$\alpha 28^\circ$ | R 6.00 | H 100.00 | Max. Tn/mt 100

COD 13.520

$\alpha 84^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.530

$\alpha 86^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.550

$\alpha 90^\circ$ | R 0.50 | H 100.00 | Max. Tn/mt 100

COD 13.551

$\alpha 90^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

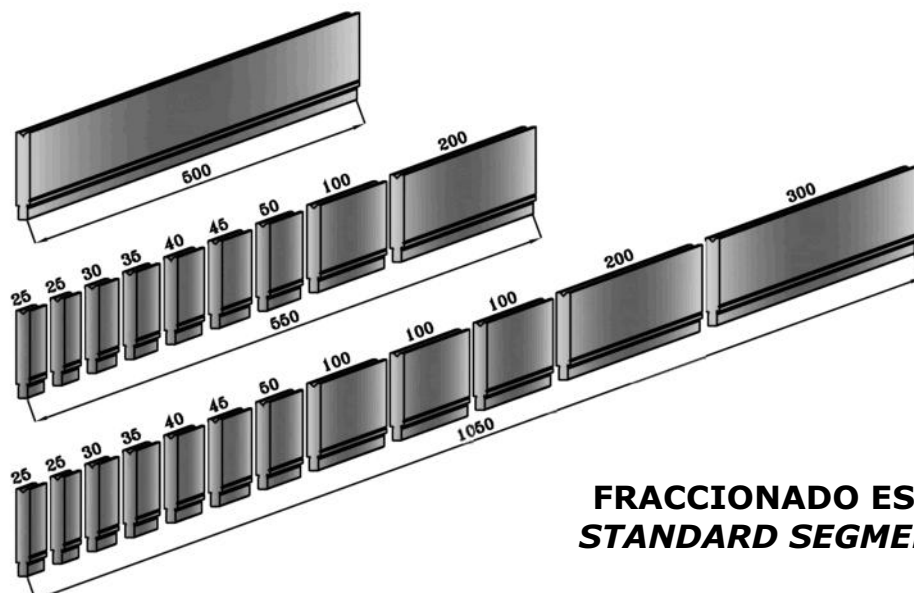
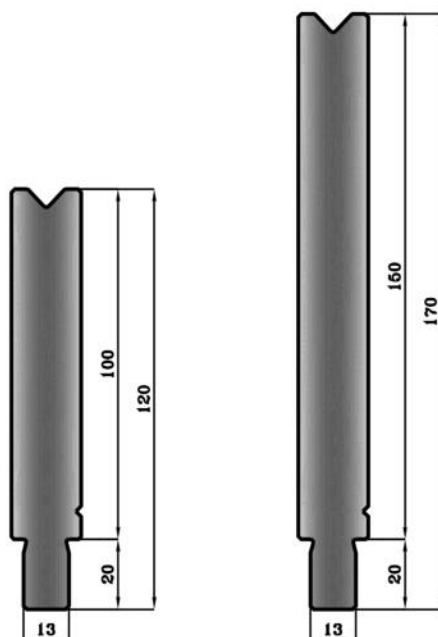
COD 13.552

$\alpha 90^\circ$ | R 1.50 | H 100.00 | Max. Tn/mt 100

COD 13.553

$\alpha 90^\circ$ | R 2.00 | H 100.00 | Max. Tn/mt 100

LAS MATRICES ESTÁNDAR ESTÁN DISPONIBLES EN LARGO: 500mm Y FRACCIONADO DE 550mm
STANDARD DIES ARE AVAILABLE IN LENGTHS: 500mm AND 550mm SEGMENTED

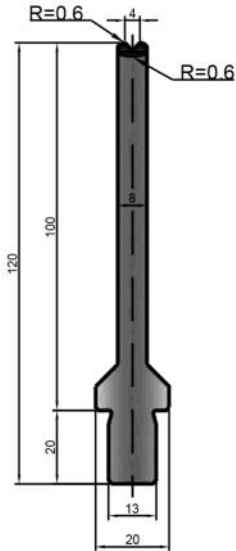


FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION

WILA TRUMPF®

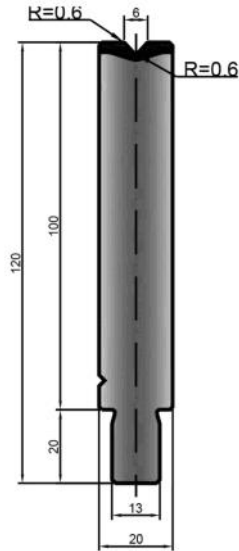
COD 40.300

$\alpha 86^\circ$ | Max. Tn/mt 100



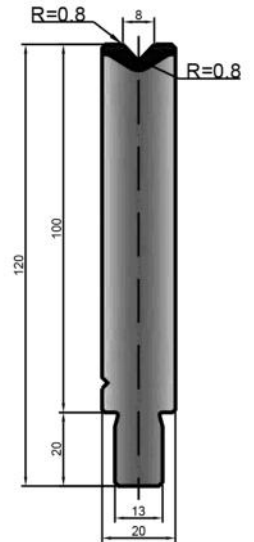
COD 40.301

$\alpha 86^\circ$ | Max. Tn/mt 100



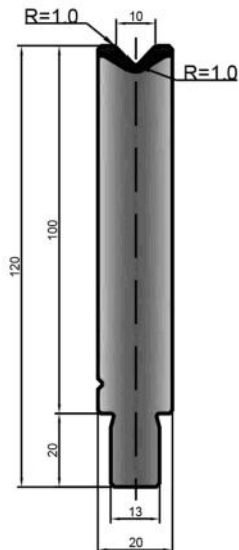
COD 40.302

$\alpha 86^\circ$ | Max. Tn/mt 100



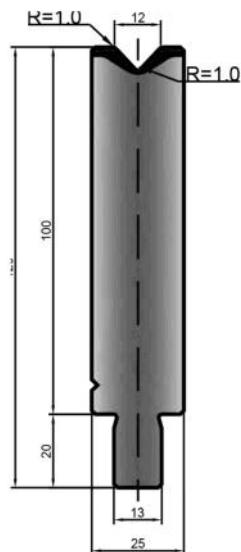
COD 40.303

$\alpha 86^\circ$ | Max. Tn/mt 100



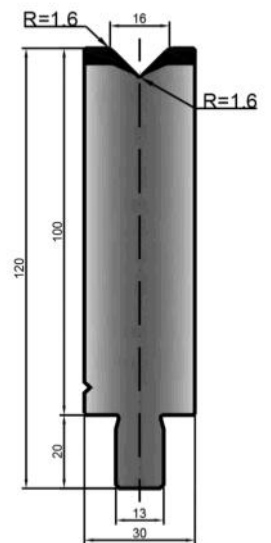
COD 40.304

$\alpha 86^\circ$ | Max. Tn/mt 100



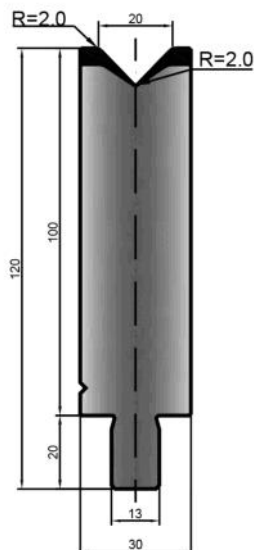
COD 40.309

$\alpha 86^\circ$ | Max. Tn/mt 100



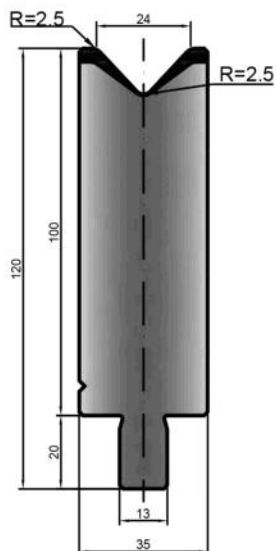
COD 40.310

$\alpha 86^\circ$ | Max. Tn/mt 100



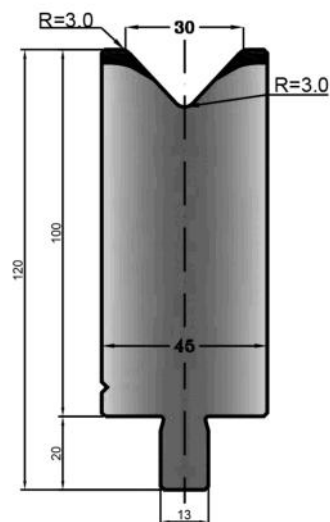
COD 40.311

$\alpha 86^\circ$ | Max. Tn/mt 100



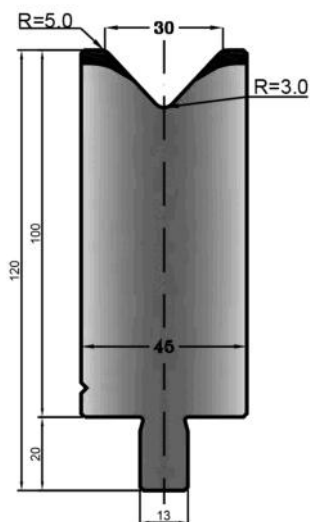
COD 40.315

$\alpha 86^\circ$ | Max. Tn/mt 100



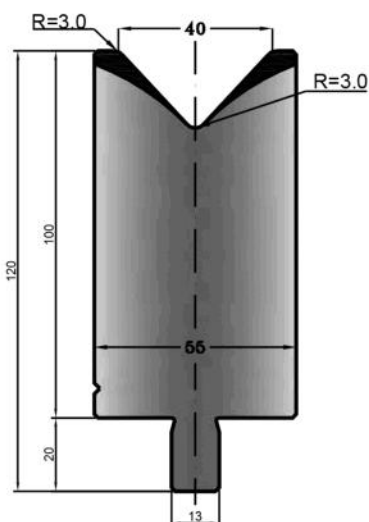
COD 40.316

$\alpha 80^\circ$ | Max. Tn/mt 100



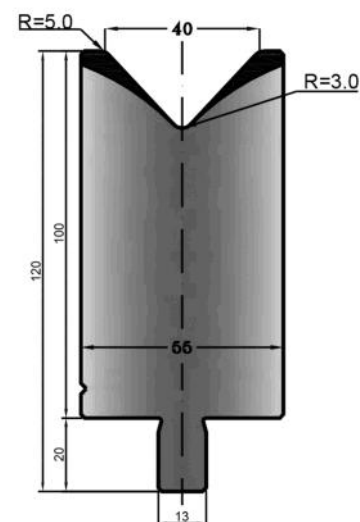
COD 40.317

$\alpha 80^\circ$ | Max. Tn/mt 100



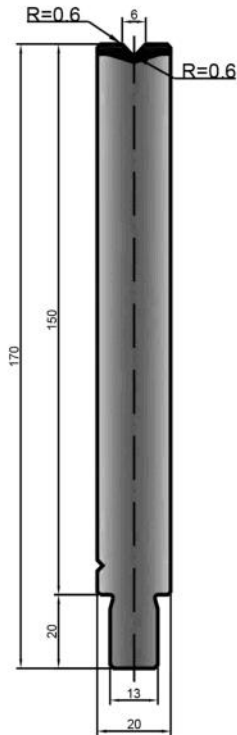
COD 40.318

$\alpha 80^\circ$ | Max. Tn/mt 100



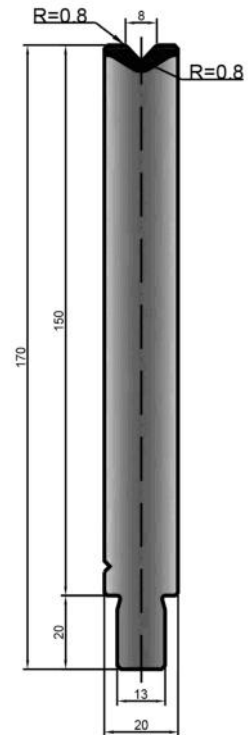
COD 40.305

$\alpha 86^\circ$ | Max. Tn/mt 100



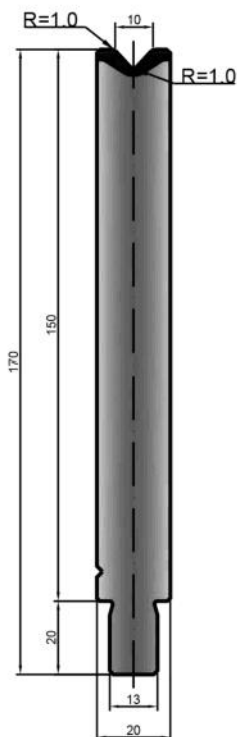
COD 40.306

$\alpha 86^\circ$ | Max. Tn/mt 100



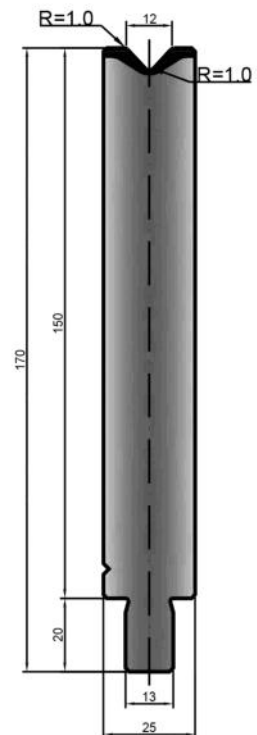
COD 40.307

$\alpha 86^\circ$ | Max. Tn/mt 100



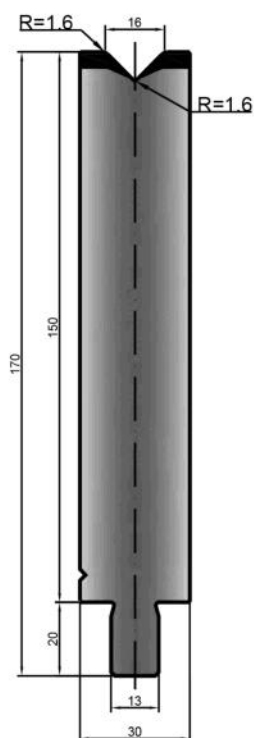
COD 40.308

$\alpha 86^\circ$ | Max. Tn/mt 100



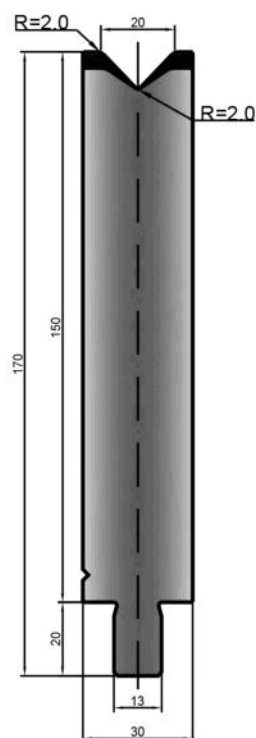
COD 40.312

$\alpha 86^\circ$ | Max. Tn/mt 100



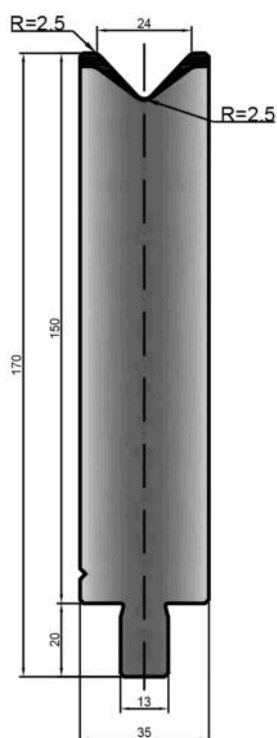
COD 40.313

$\alpha 86^\circ$ | Max. Tn/mt 100



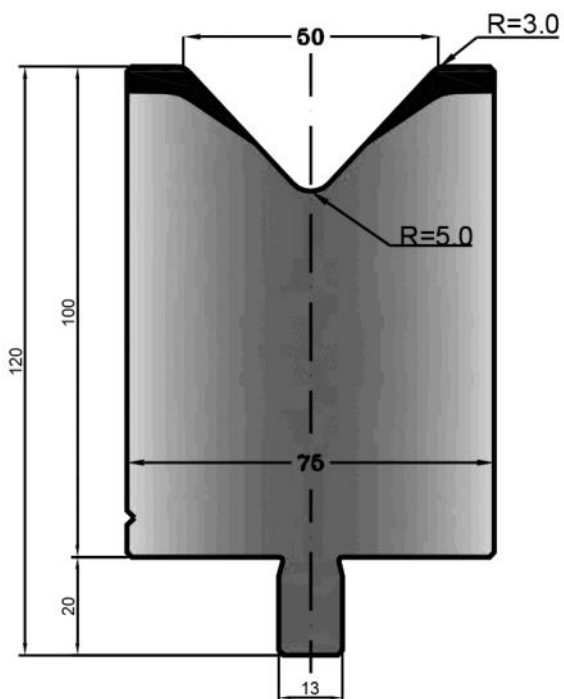
COD 40.314

$\alpha 86^\circ$ | Max. Tn/mt 100



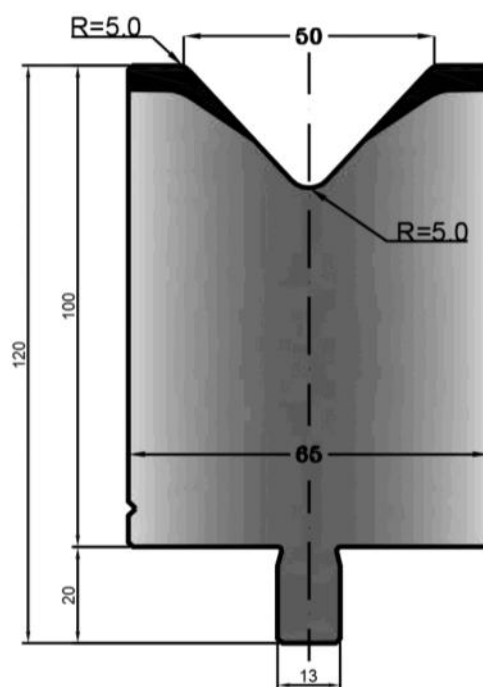
COD 40.319

$\alpha 86^\circ$ | Max. Tn/mt 100



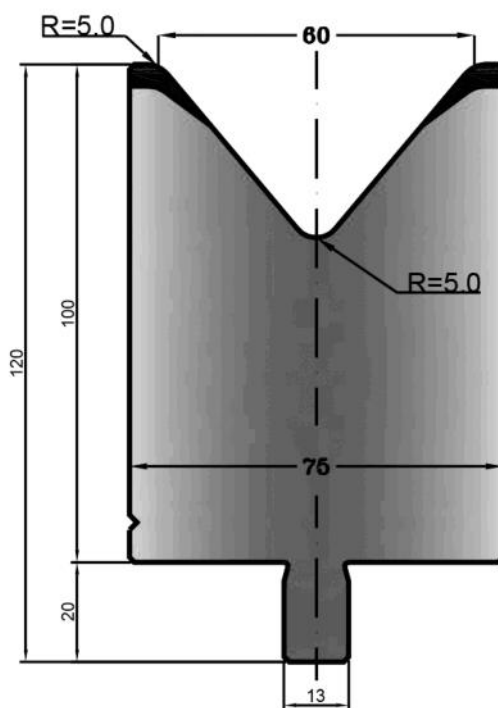
COD 40.320

$\alpha 80^\circ$ | Max. Tn/mt 100



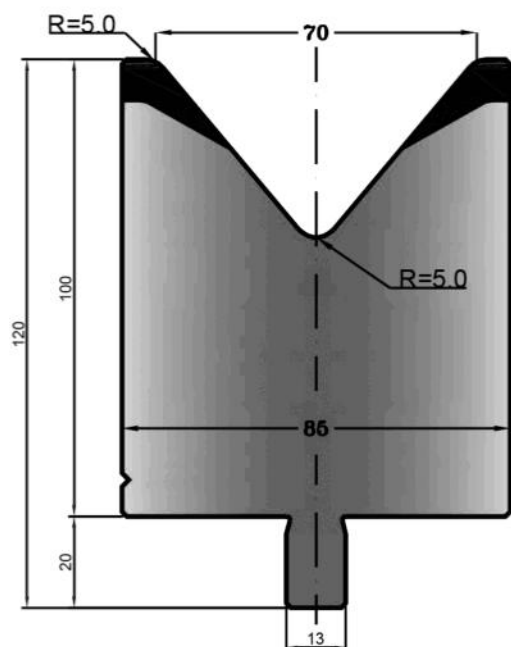
COD 40.321

$\alpha 80^\circ$ | Max. Tn/mt 100



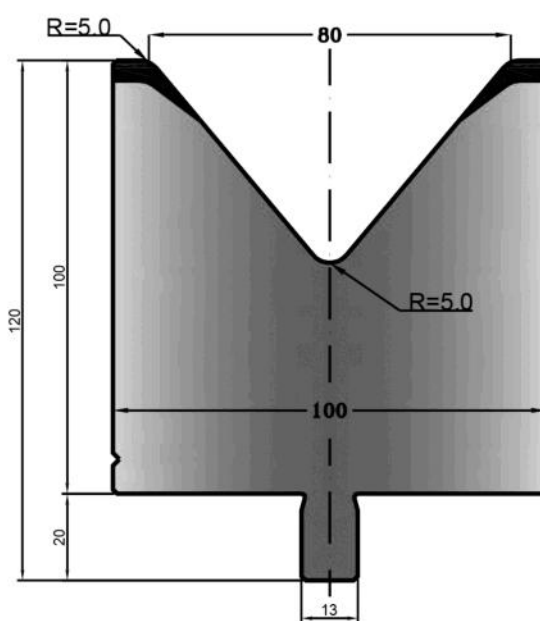
COD 40.322

$\alpha 80^\circ$ | Max. Tn/mt 100



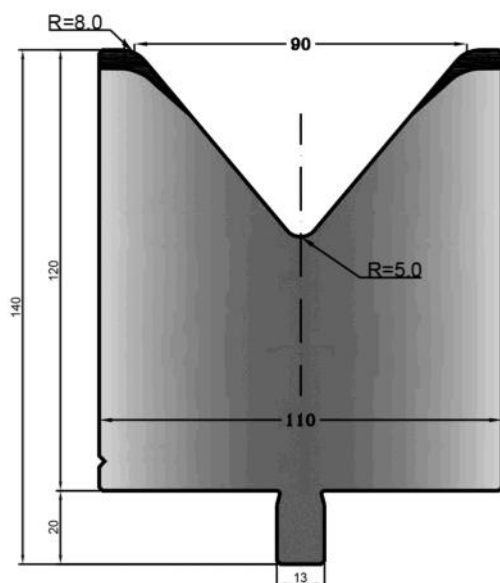
COD 40.323

$\alpha 80^\circ$ | Max. Tn/mt 100



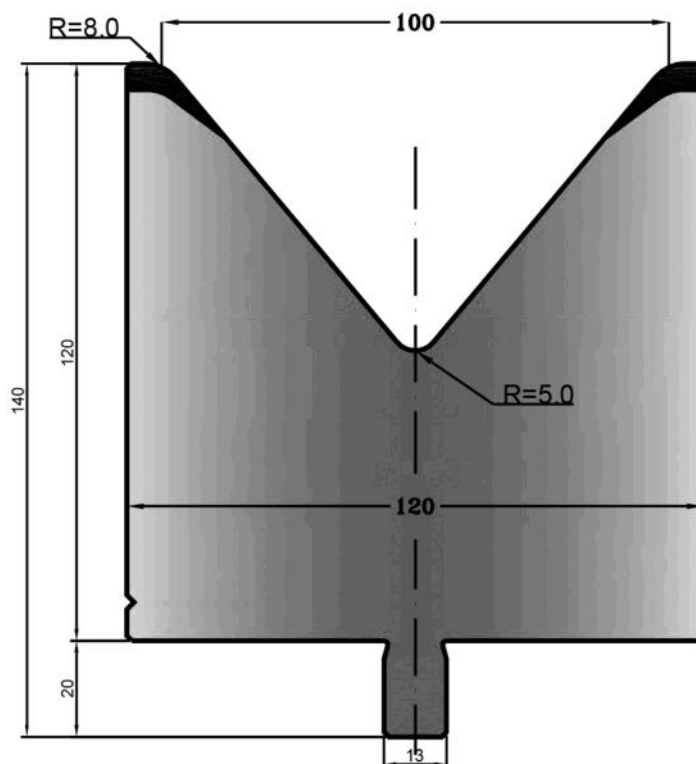
COD 40.324

$\alpha 80^\circ$ | Max. Tn/mt 100



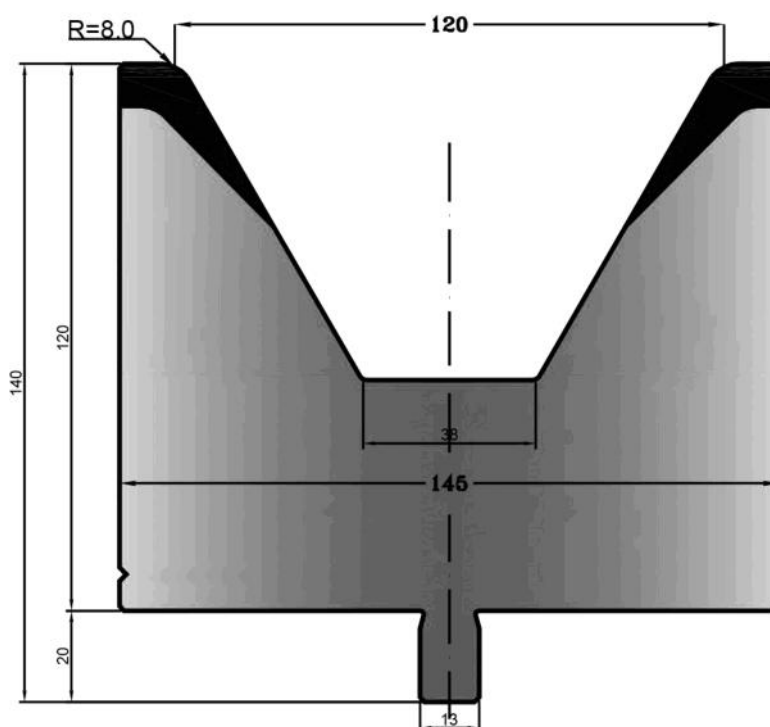
COD 40.325

$\alpha 80^\circ$ | Max. Tn/mt 100



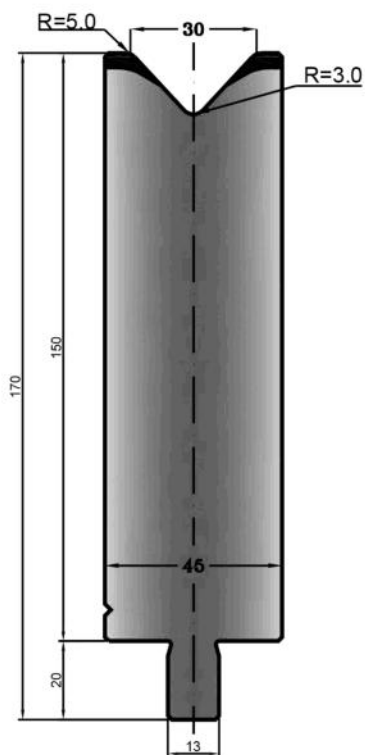
COD 40.326

$\alpha 60^\circ$ | Max. Tn/mt 100



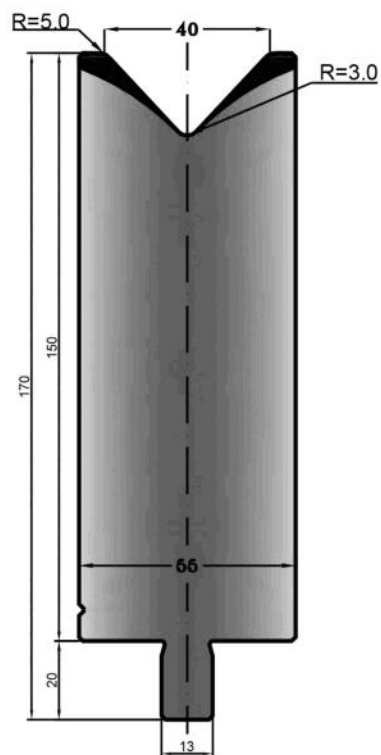
COD 40.327

$\alpha 80^\circ$ | Max. Tn/mt 100



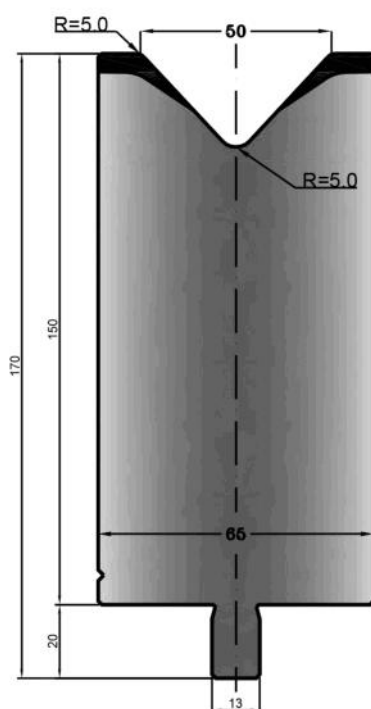
COD 40.328

$\alpha 80^\circ$ | Max. Tn/mt 100



COD 40.329

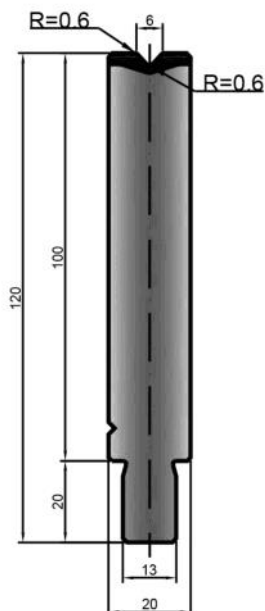
$\alpha 80^\circ$ | Max. Tn/mt 100



WILA TRUMPF®

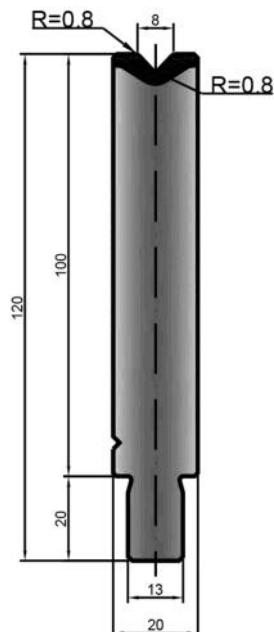
COD 40.368

$\alpha 84^\circ$ | Max. Tn/mt 100



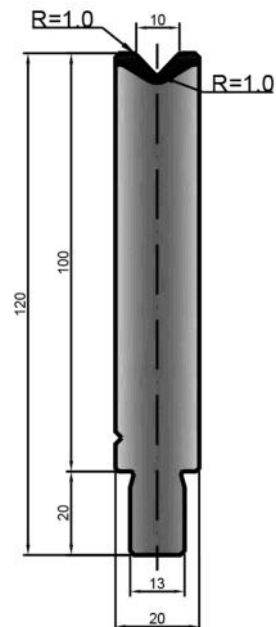
COD 40.331

$\alpha 84^\circ$ | Max. Tn/mt 100



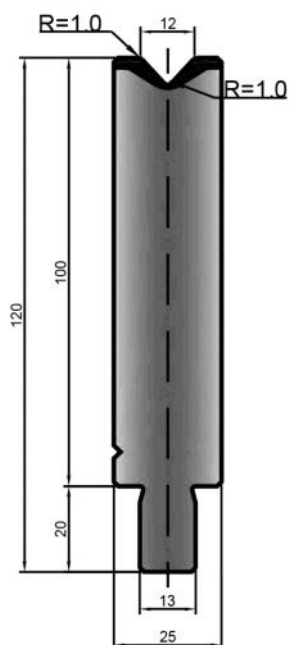
COD 40.332

$\alpha 84^\circ$ | Max. Tn/mt 100



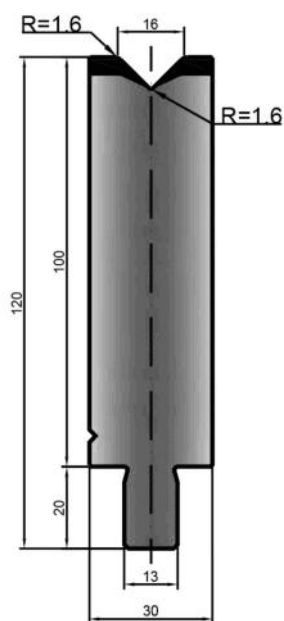
COD 40.333

$\alpha 84^\circ$ | Max. Tn/mt 100



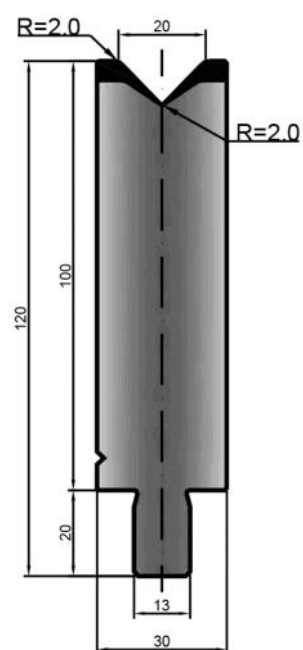
COD 40.338

$\alpha 84^\circ$ | Max. Tn/mt 100



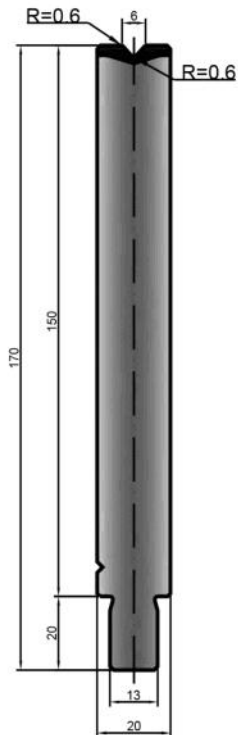
COD 40.339

$\alpha 84^\circ$ | Max. Tn/mt 100



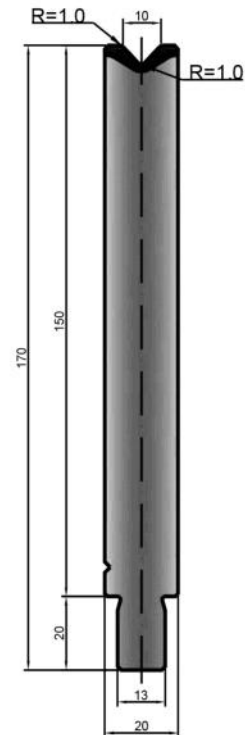
COD 40.334

$\alpha 84^\circ$ | Max. Tn/mt 100



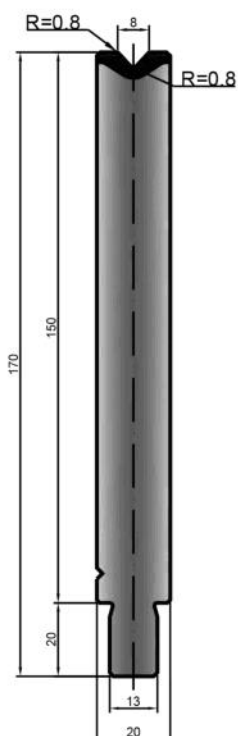
COD 40.336

$\alpha 84^\circ$ | Max. Tn/mt 100



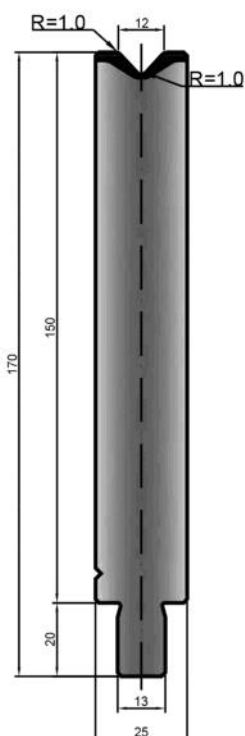
COD 40.335

$\alpha 84^\circ$ | Max. Tn/mt 100



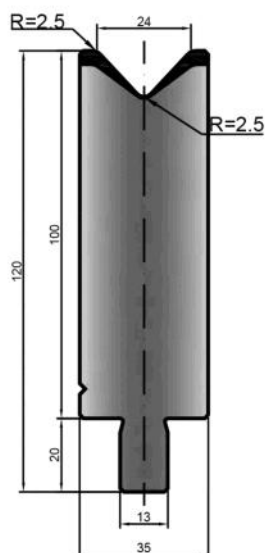
COD 40.337

$\alpha 84^\circ$ | Max. Tn/mt 100



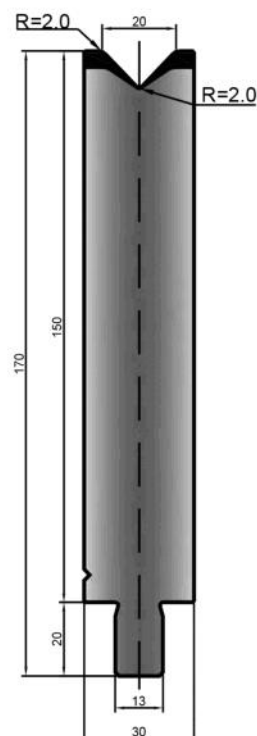
COD 40.340

$\alpha 80^\circ$ | Max. Tn/mt 100



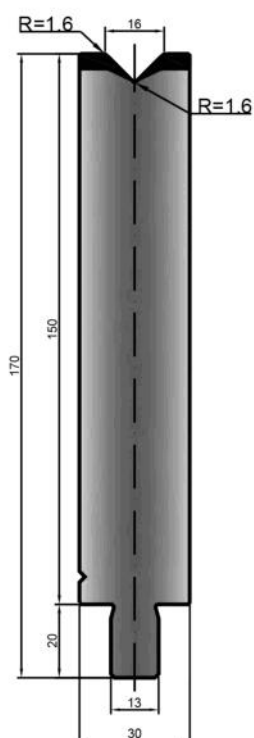
COD 40.342

$\alpha 84^\circ$ | Max. Tn/mt 100



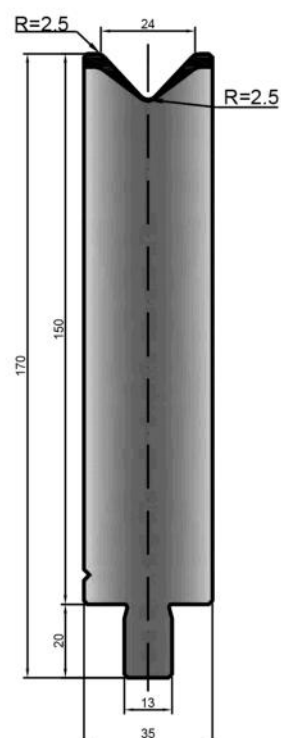
COD 40.341

$\alpha 84^\circ$ | Max. Tn/mt 100



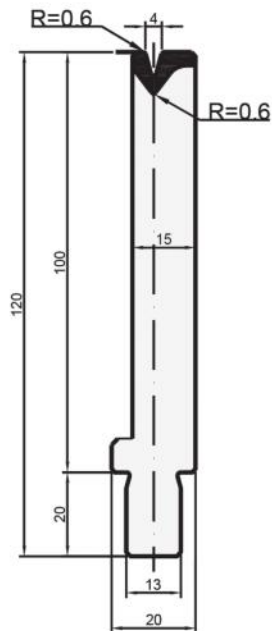
COD 40.343

$\alpha 80^\circ$ | Max. Tn/mt 100



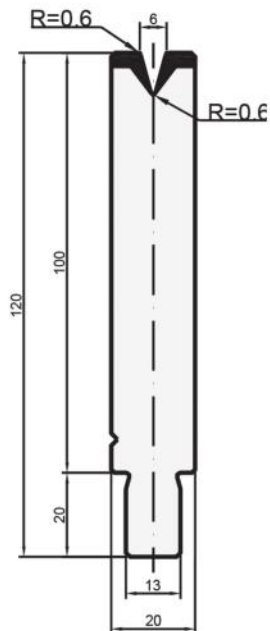
COD 40.344

$\alpha 30^\circ$ | Max. Tn/mt 40



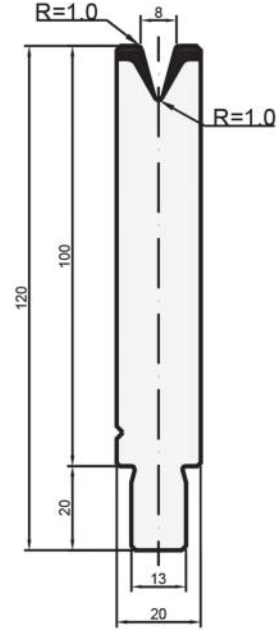
COD 40.345

$\alpha 30^\circ$ | Max. Tn/mt 40



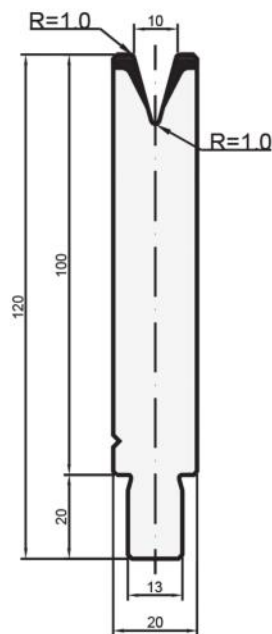
COD 40.346

$\alpha 30^\circ$ | Max. Tn/mt 50



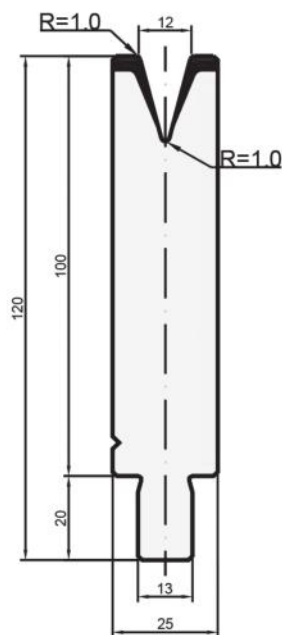
COD 40.347

$\alpha 30^\circ$ | Max. Tn/mt 40



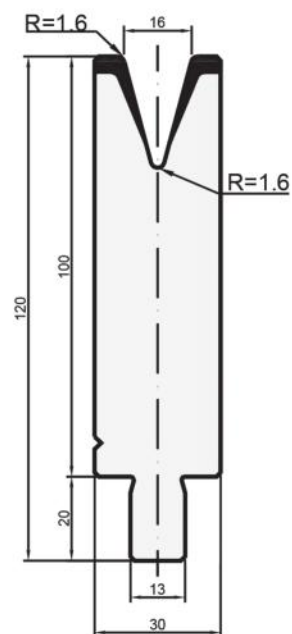
COD 40.348

$\alpha 30^\circ$ | Max. Tn/mt 40



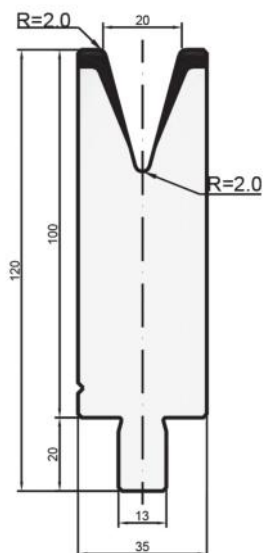
COD 40.353

$\alpha 30^\circ$ | Max. Tn/mt 45



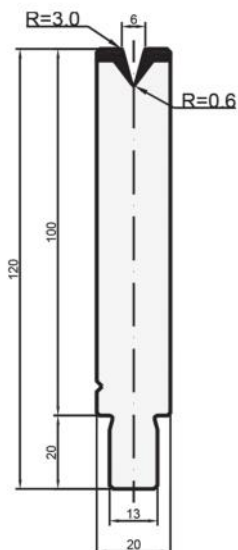
COD 40.354

$\alpha 30^\circ$ | Max. Tn/mt 50



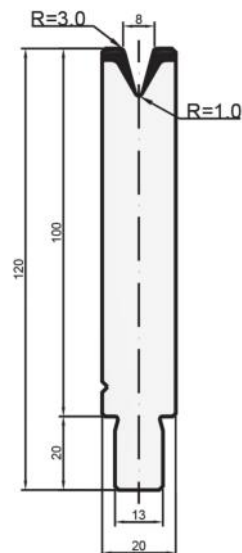
COD 40.360

$\alpha 30^\circ$ | Max. Tn/mt 40



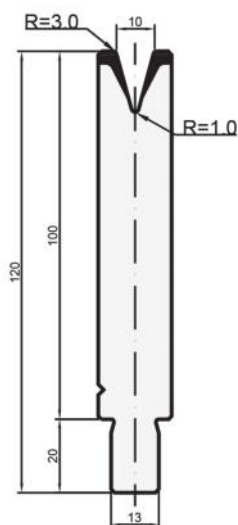
COD 40.361

$\alpha 30^\circ$ | Max. Tn/mt 50



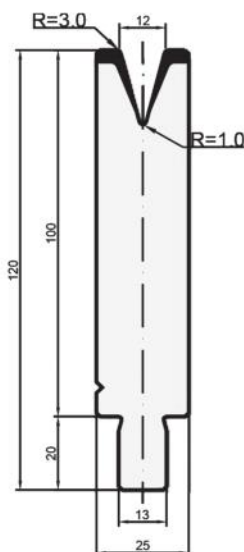
COD 40.362

$\alpha 30^\circ$ | Max. Tn/mt 40



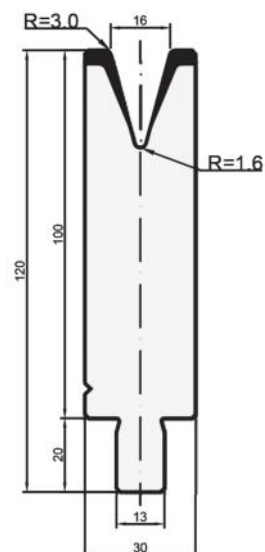
COD 40.363

$\alpha 30^\circ$ | Max. Tn/mt 40



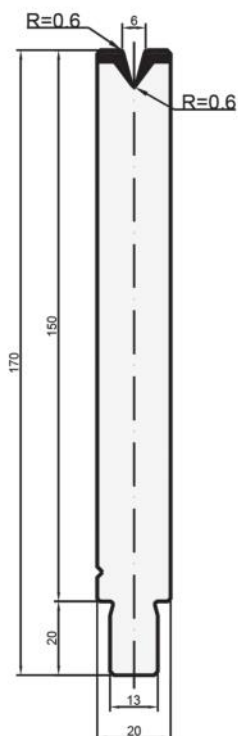
COD 40.364

$\alpha 30^\circ$ | Max. Tn/mt 45



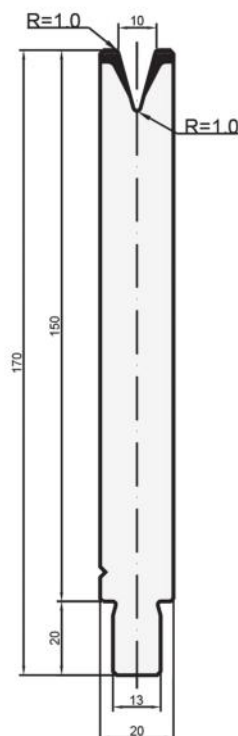
COD 40.349

$\alpha 30^\circ$ | Max. Tn/mt 50



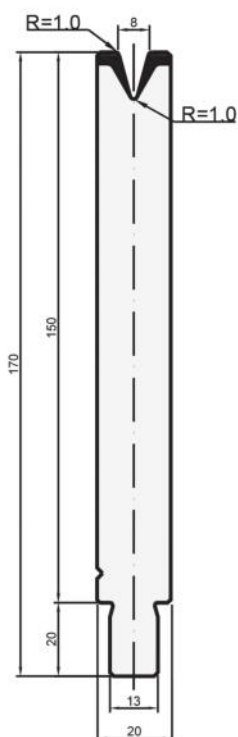
COD 40.351

$\alpha 30^\circ$ | Max. Tn/mt 40



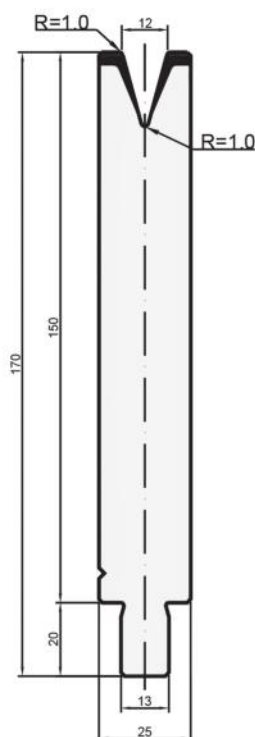
COD 40.350

$\alpha 30^\circ$ | Max. Tn/mt 40



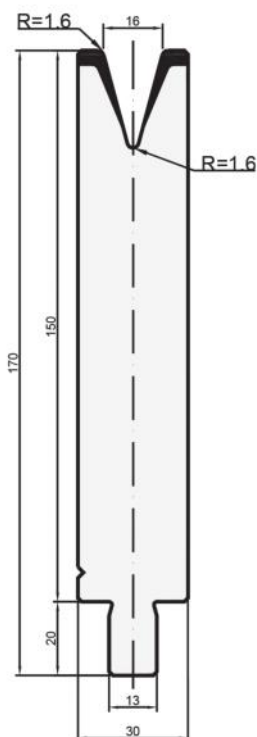
COD 40.352

$\alpha 30^\circ$ | Max. Tn/mt 40



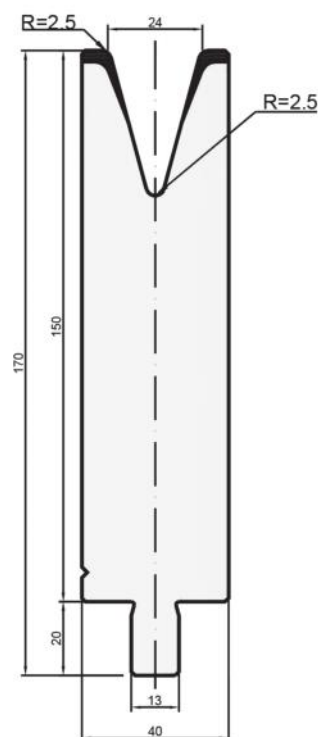
COD 40.357

$\alpha 30^\circ$ | Max. Tn/mt 45



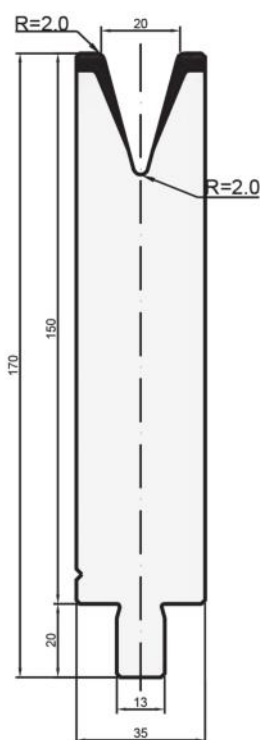
COD 40.359

$\alpha 30^\circ$ | Max. Tn/mt 50



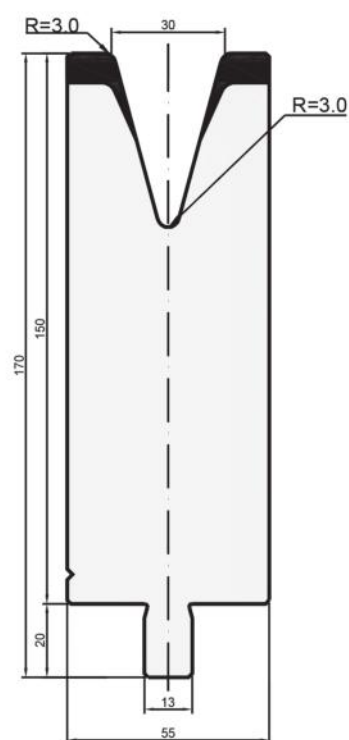
COD 40.358

$\alpha 30^\circ$ | Max. Tn/mt 50



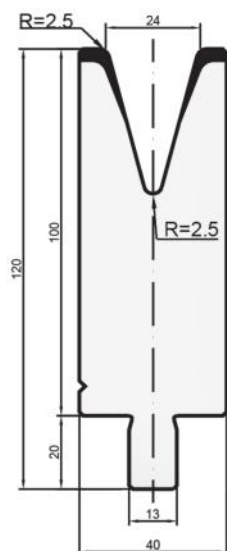
COD 40.365

$\alpha 30^\circ$ | Max. Tn/mt 45



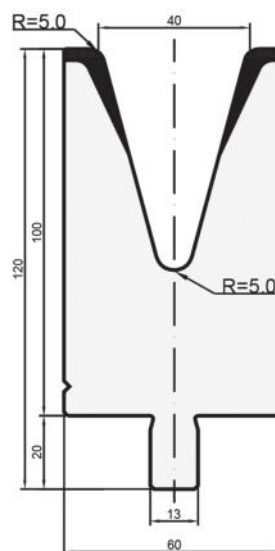
COD 40.355

$\alpha 30^\circ$ | Max. Tn/mt 50



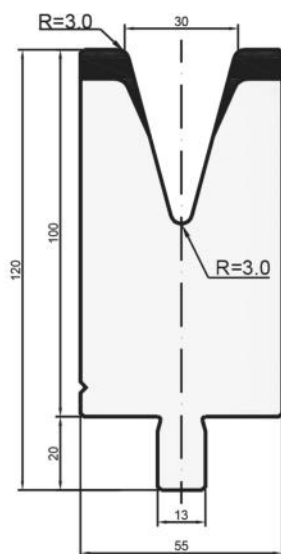
COD 40.366

$\alpha 30^\circ$ | Max. Tn/mt 50



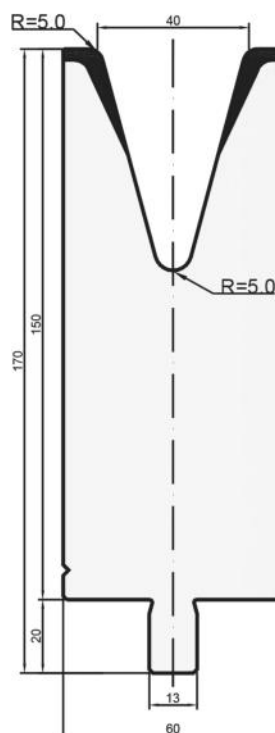
COD 40.356

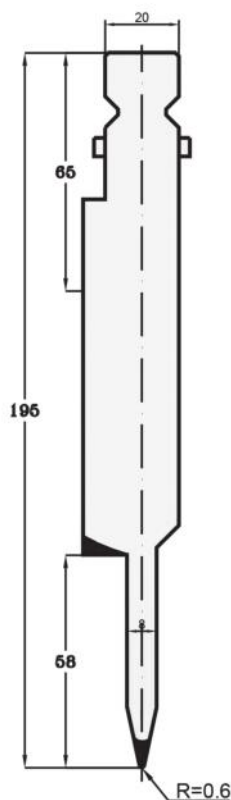
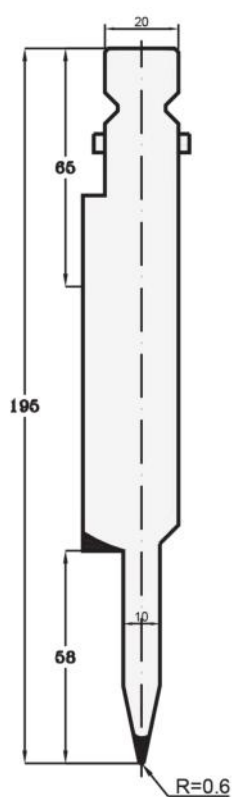
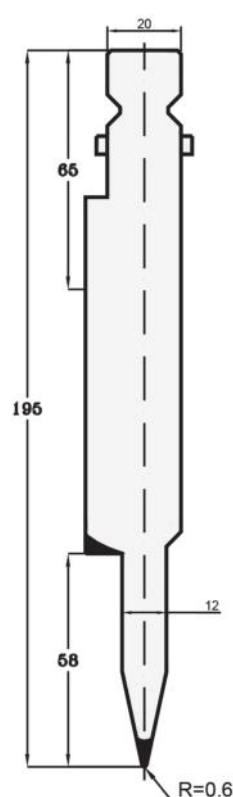
$\alpha 30^\circ$ | Max. Tn/mt 60



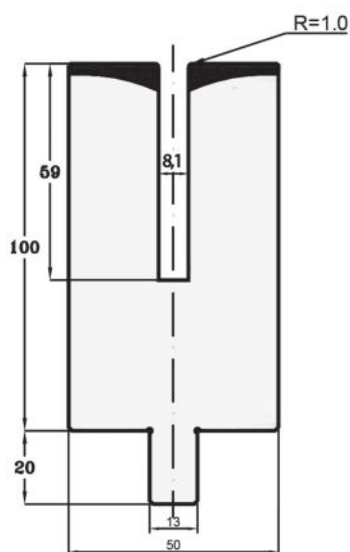
COD 40.367

$\alpha 30^\circ$ | Max. Tn/mt 50

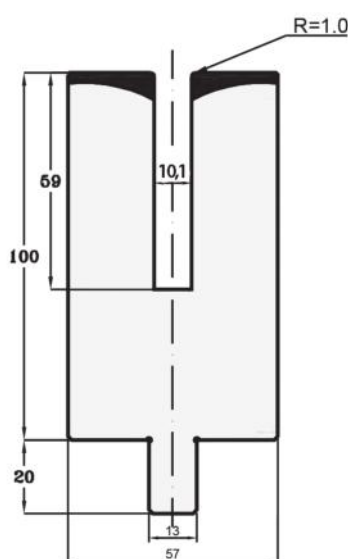


COD 12.490
 $\alpha 28^\circ$ | Max. Tn/mt 80

COD 12.500
 $\alpha 24^\circ$ | Max. Tn/mt 80

COD 12.510
 $\alpha 24^\circ$ | Max. Tn/mt 80

COD 31.570

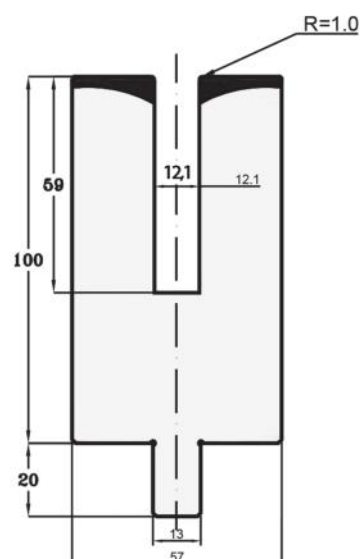
Max. Tn/mt 50


COD 31.740

Max. Tn/mt 50


COD 31.750

Max. Tn/mt 50



PUNZONES / PUNCHES

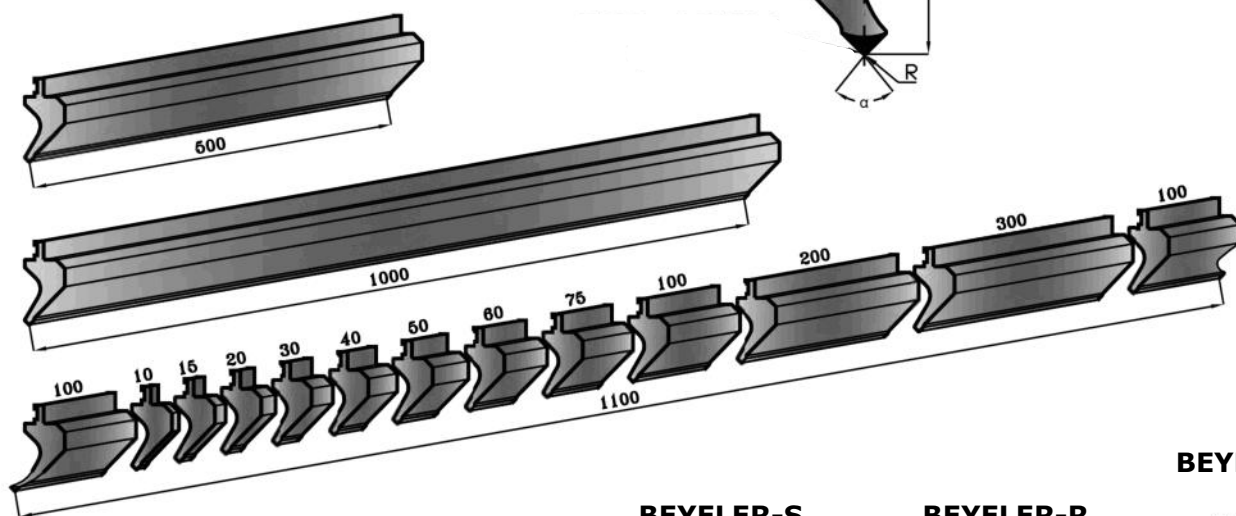
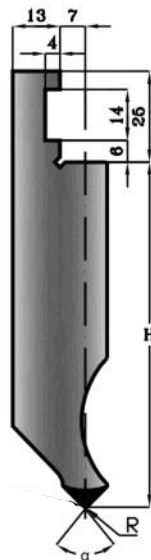
LOS PUNZONES ESTÁNDAR ESTAN DISPONIBLES EN LARGOS 500mm, 1000mm Y FRACCIONADO DE 1100mm
STANDARD PUNCHES ARE AVAILABLE LENGTHS IN 500mm, 1000mm AND 1100mm SEGMENTATION

LEYENDA / DESCRIPTION

H = ALTURA PUNZÓN / PUNCH HEIGHT

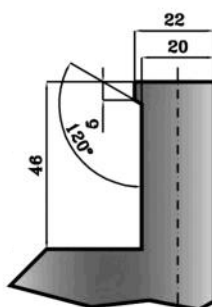
α = ÁNGULO PUNZÓN / PUNCH DEGREE

R = RADIO PUNZÓN / PUNCH RADIUS

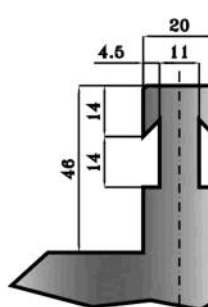


FRACCIONADO ESTÁNDAR STANDARD SEGMENTATION

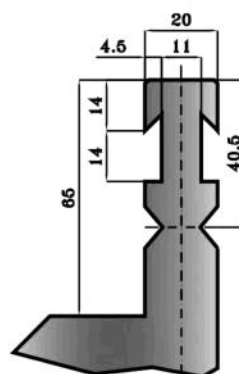
BEYELER-S



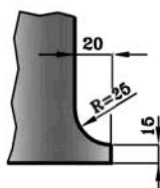
BEYELER-R



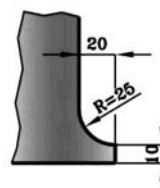
BEYELER-RFA



BIGORNIA ESTÁNDAR STANDARD HORN

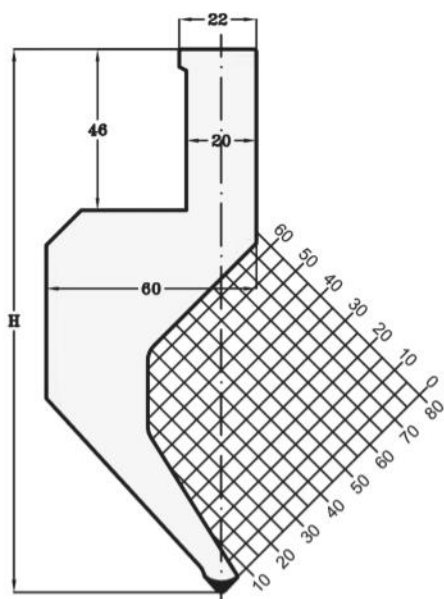


BIGORNIA FRACCIONADO ESTÁNDAR STANDARD SEGMENTATION HORN

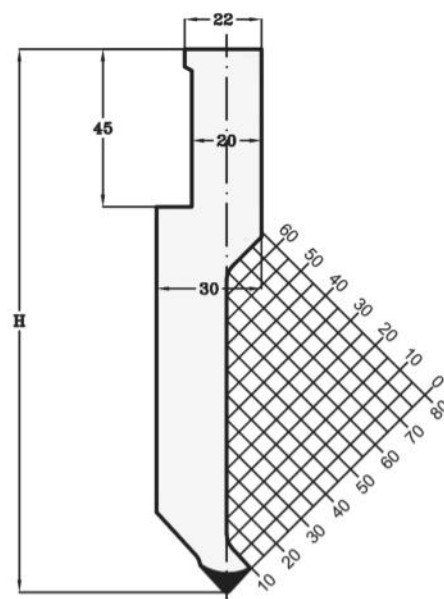


BEYELER®

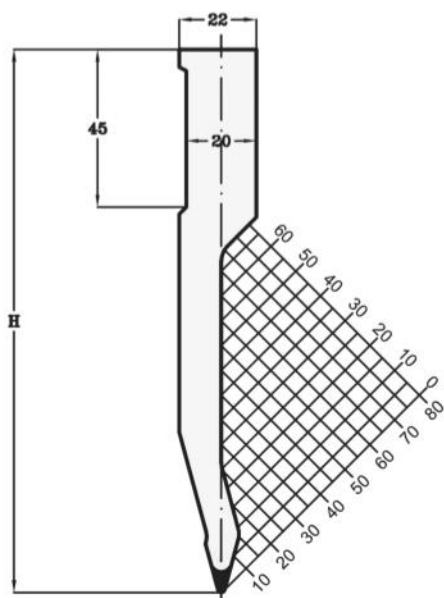
COD	α	R	H	MAX Tn/mt
12.100	85°	1.50	155.00	50
12.110	85°	0.80	155.00	50



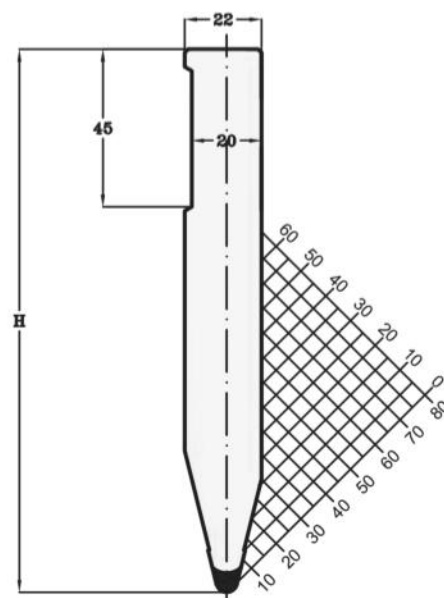
COD	α	R	H	MAX Tn/mt
12.120	85°	1.00	155.00	100



COD	α	R	H	MAX Tn/mt
12.130	30°	1.00	155.00	80
12.140	28°	1.00	155.00	80



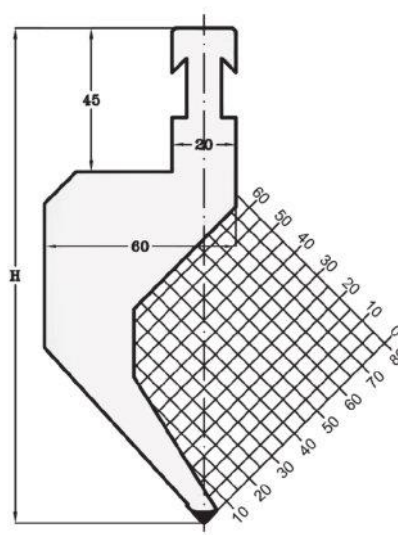
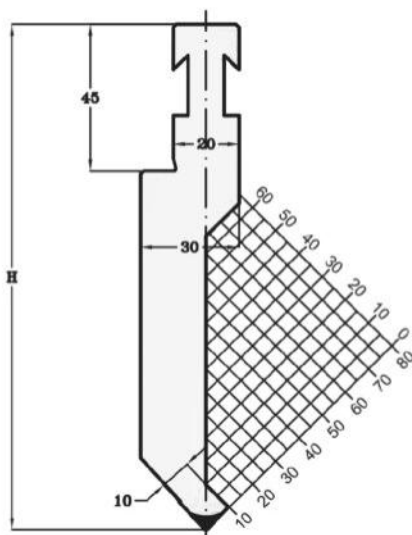
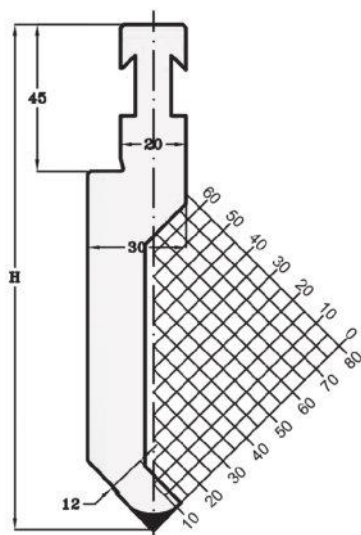
COD	α	R	H	MAX Tn/mt
12.150	28°	3.00	155.00	100



COD	α	R	H	MAX Tn/mt
12.182	88°	1.00	155.00	100

COD	α	R	H	MAX Tn/mt
12.180	88°	1.00	155.00	100
12.181	85°	1.00	155.00	100

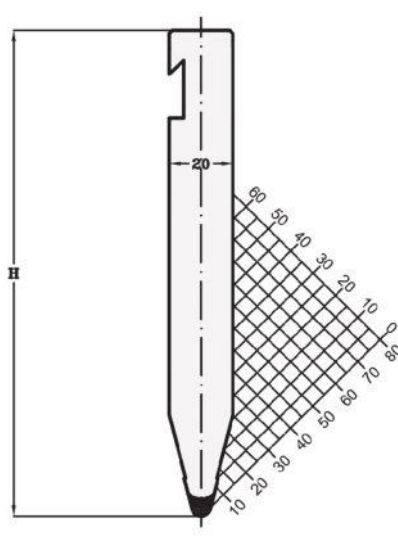
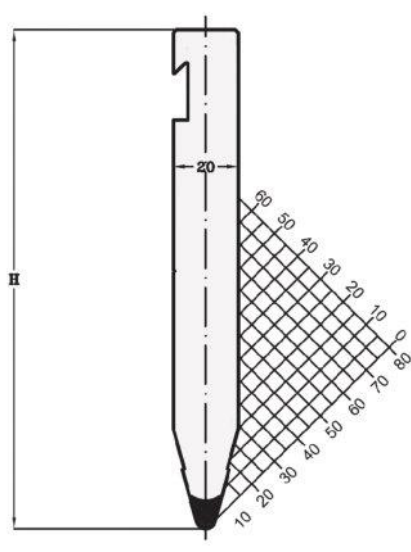
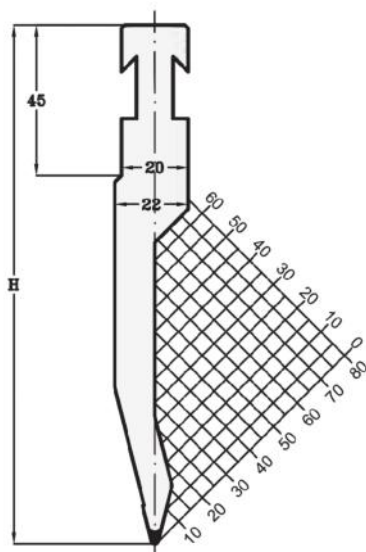
COD	α	R	H	MAX Tn/mt
12.160	85°	1.50	155.00	50
12.170	85°	0.80	155.00	50
12.230	88°	1.50	155.00	50



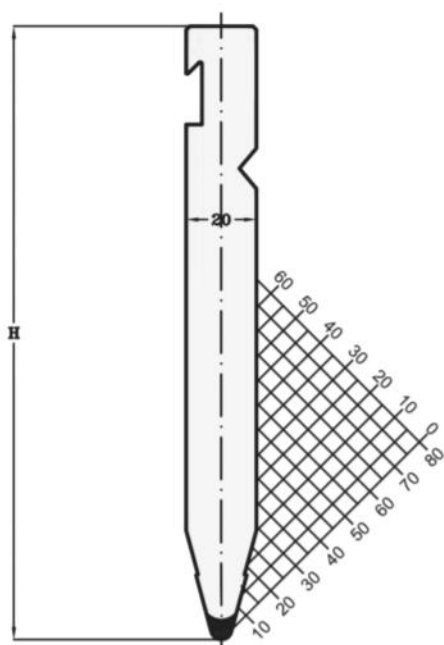
COD	α	R	H	MAX Tn/mt
12.200	30°	1.00	155.00	80
12.210	28°	1.00	155.00	80

COD	α	R	H	MAX Tn/mt
12.250	30°	3.00	155.00	50
12.260	30°	1.00	155.00	50

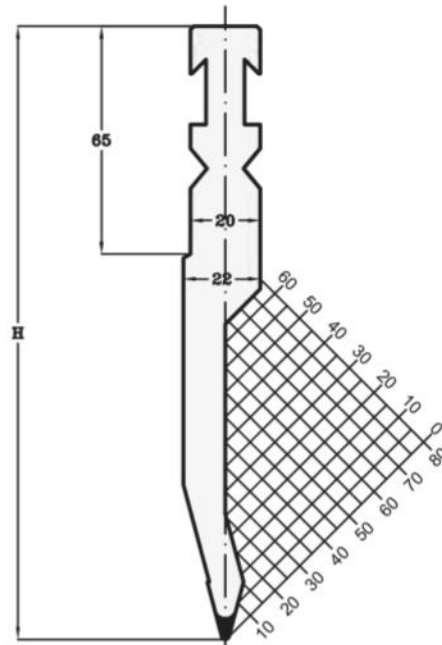
COD	α	R	H	MAX Tn/mt
12.251	28°	3.00	155.00	100
12.252	28°	1.00	155.00	100



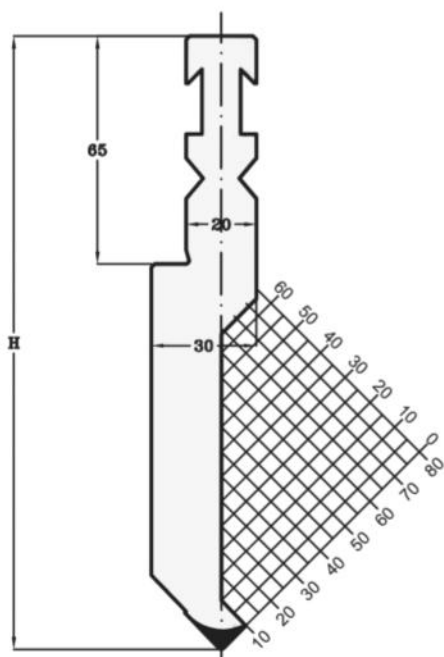
COD	α	R	H	MAX Tn/mt
12.320	30°	1.00	175.00	100
12.310	30°	3.00	175.00	100



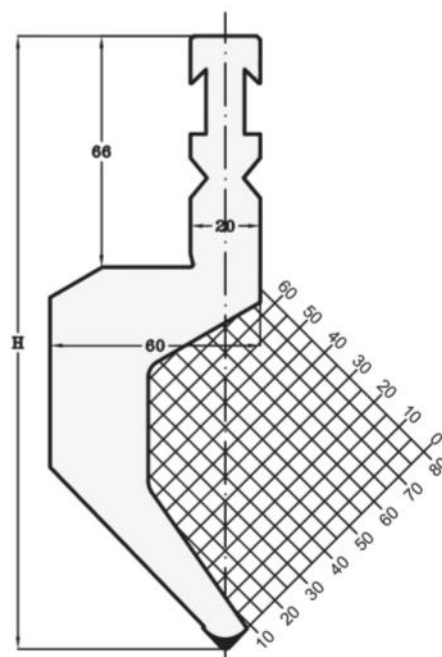
COD	α	R	H	MAX Tn/mt
12.300	30°	1.00	175.00	80



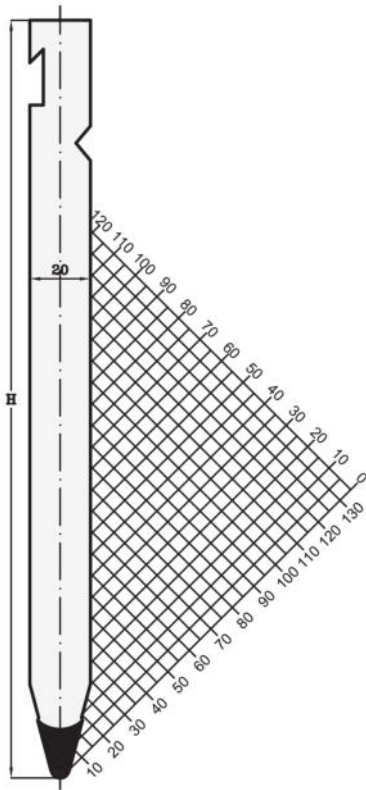
COD	α	R	H	MAX Tn/mt
12.290	88°	1.00	175.00	100
12.291	85°	1.00	175.00	100



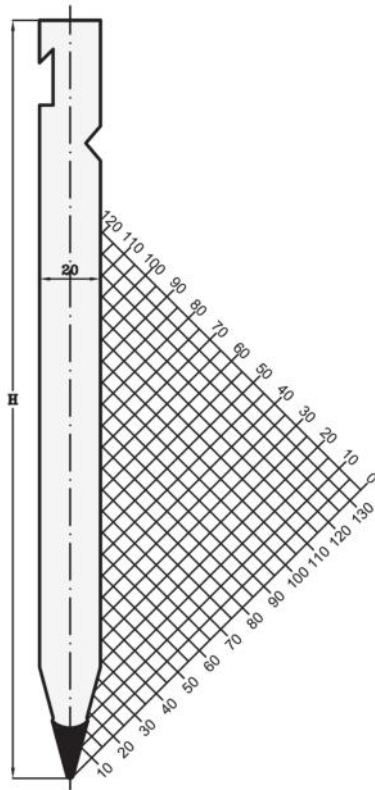
COD	α	R	H	MAX Tn/mt
12.270	88°	1.50	175.00	50
12.271	85°	1.00	175.00	50



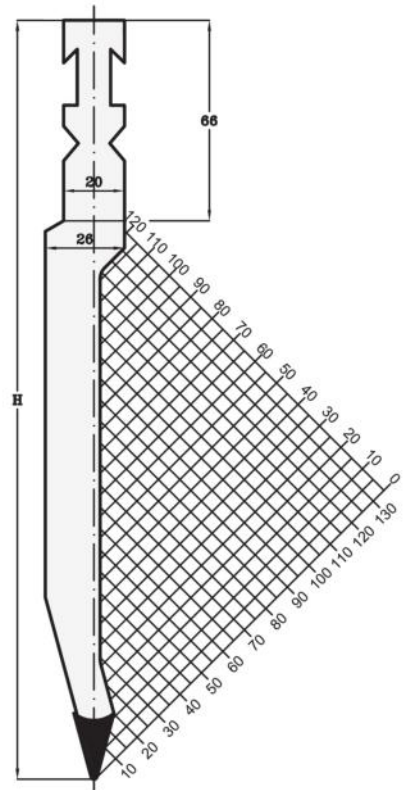
COD	α	R	H	MAX Tn/mt
12.991	30°	3.00	250.00	100



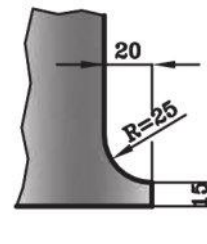
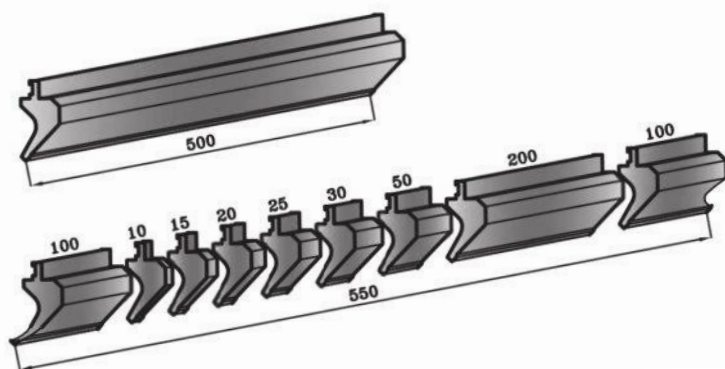
COD	α	R	H	MAX Tn/mt
12.992	30°	1.00	250.00	100



COD	α	R	H	MAX Tn/mt
12.993	30°	1.00	250.00	80
12.994	26°	1.00	250.00	80



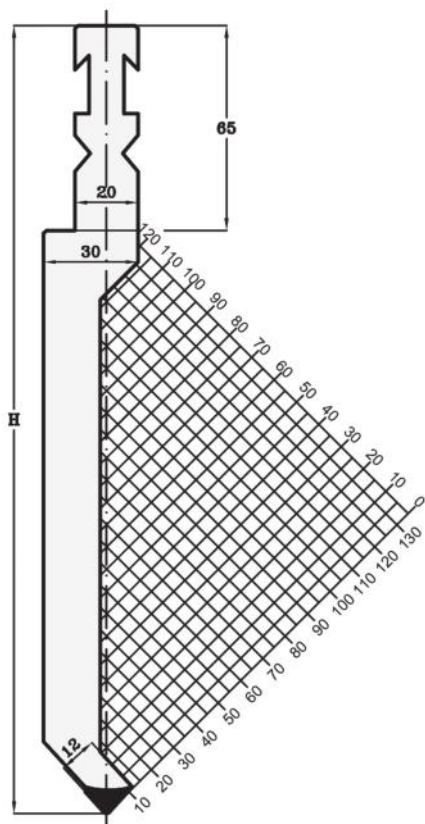
FRACCIONADO ESTÁNDAR STANDARD SEGMENTATION



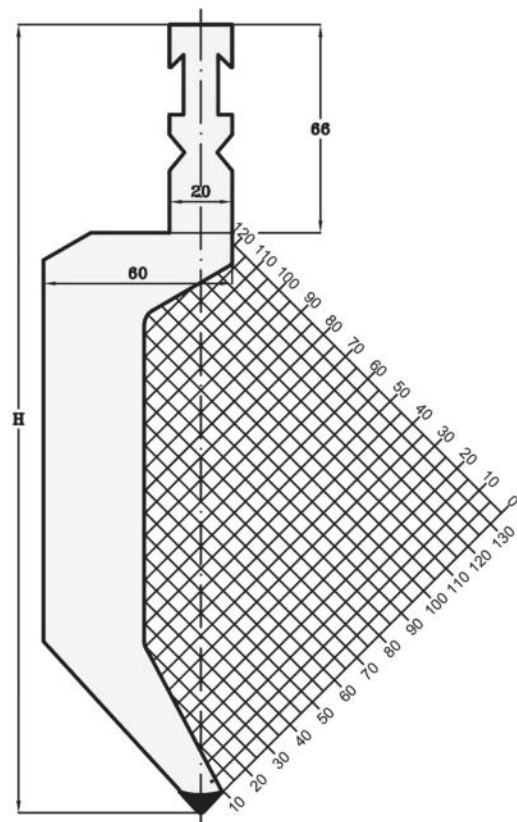
BIGORNIA FRACCIONADO ESTÁNDAR STANDARD SEGMENTATION HORN

BEYELER-RFA®

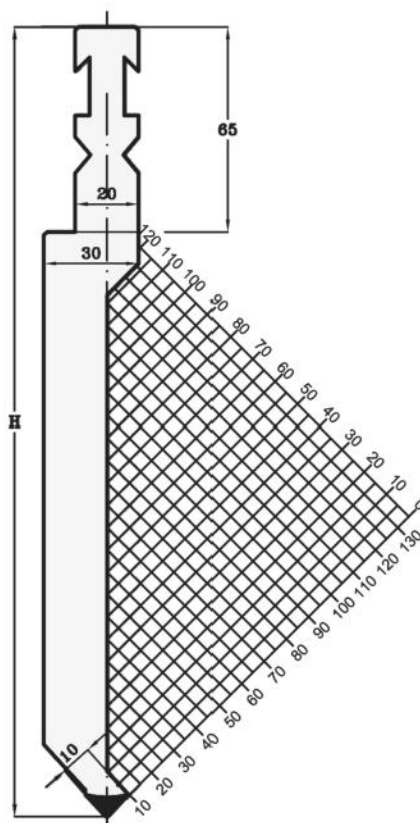
COD	α	R	H	MAX Tn/mt
12.995	85°	1.00	250.00	100



COD	α	R	H	MAX Tn/mt
12.997	85°	1.50	250.00	50

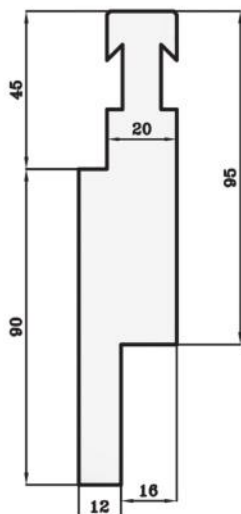


COD	α	R	H	MAX Tn/mt
12.996	85°	1.00	250.00	100



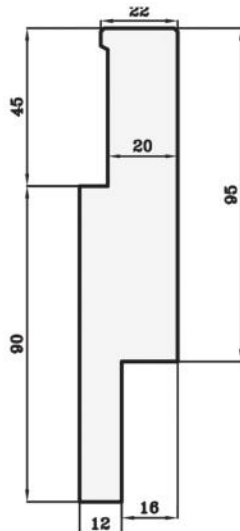
BEYELER-R

COD	MAX Tn/mt
10.441	100



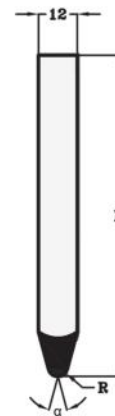
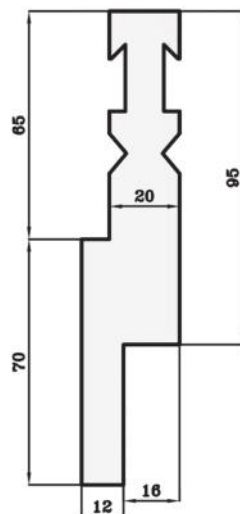
BEYELER-S

COD	MAX Tn/mt
10.442	100



BEYELER-RFA

COD	MAX Tn/mt
10.443	100



COD 13.500

$\alpha 28^\circ | R 0.50 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.501

$\alpha 28^\circ | R 1.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.502

$\alpha 28^\circ | R 2.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.503

$\alpha 28^\circ | R 3.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.504

$\alpha 28^\circ | R 4.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.505

$\alpha 28^\circ | R 5.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.506

$\alpha 28^\circ | R 6.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.520

$\alpha 84^\circ | R 1.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.530

$\alpha 86^\circ | R 1.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.550

$\alpha 90^\circ | R 0.50 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.551

$\alpha 90^\circ | R 1.00 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.552

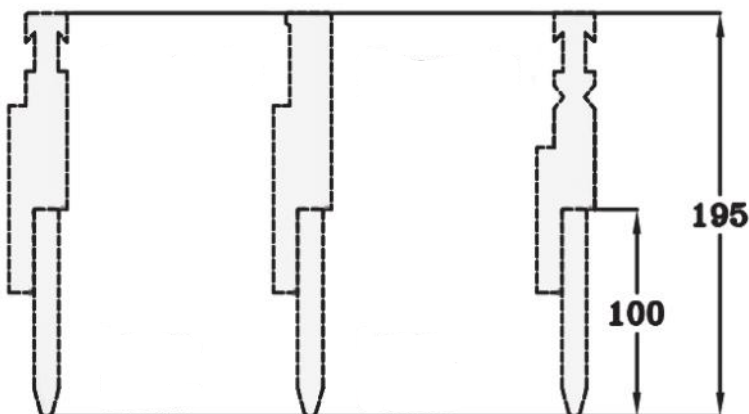
$\alpha 90^\circ | R 1.50 | H 100.00 | \text{Max. Tn/mt } 100$

COD 13.553

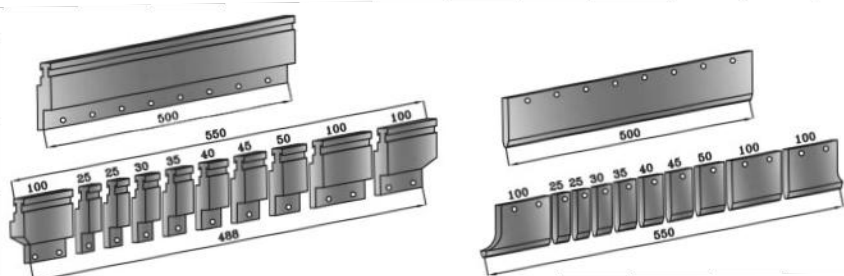
$\alpha 90^\circ | R 2.00 | H 100.00 | \text{Max. Tn/mt } 100$

SOPORTE
HOLDER

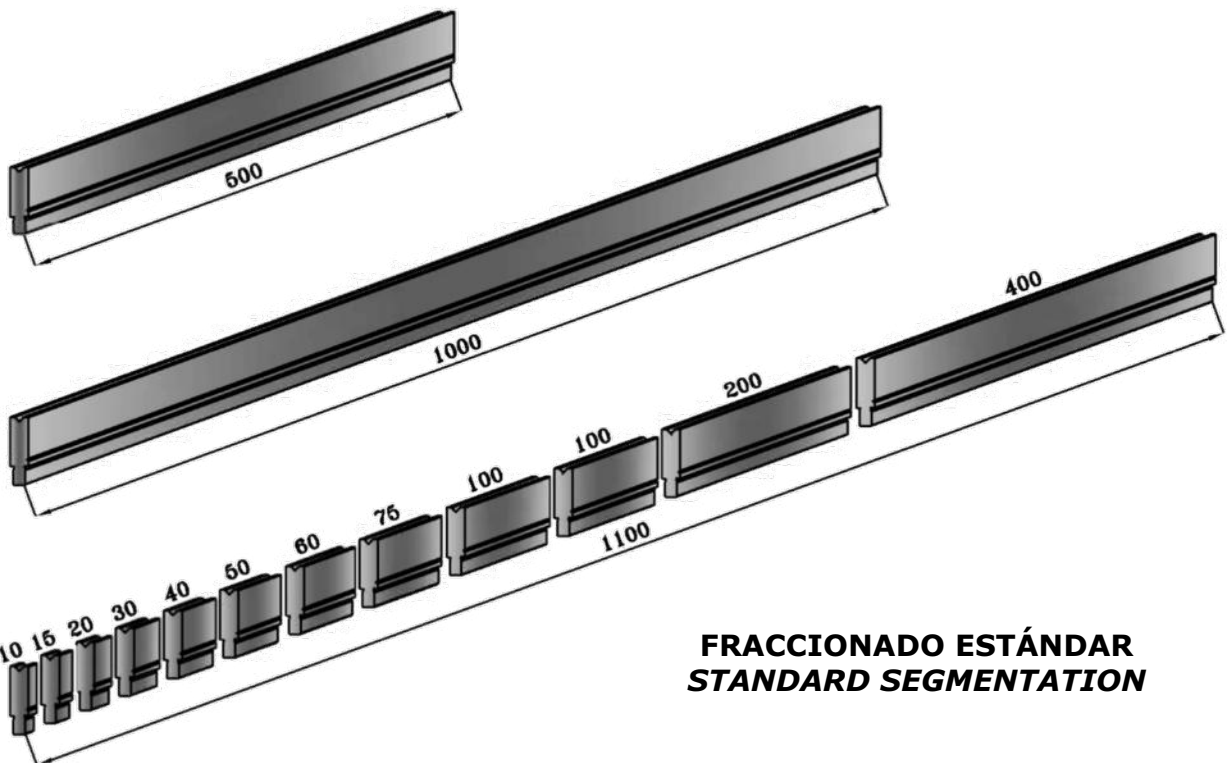
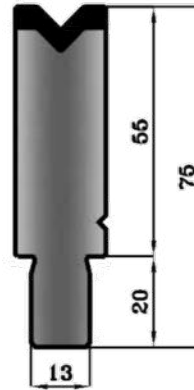
CUCHILLA
BLADE



**FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION**



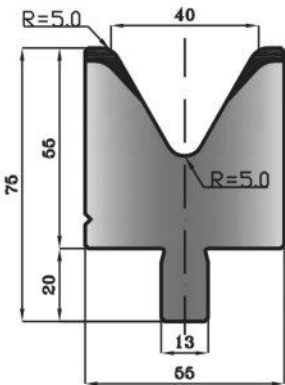
LOS PUNZONES ESTÁNDAR ESTAN DISPONIBLES EN LARGOS 500mm, 1000mm Y FRACCIONADO DE 1100mm
STANDARD PUNCHES ARE AVAILABLE LENGTHS IN 500mm, 1000mm AND 1100mm SEGMENTATION



FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION

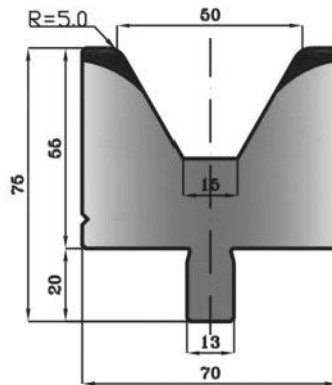
COD 31.130

$\alpha 60^\circ$ | Max. Tn/mt 100



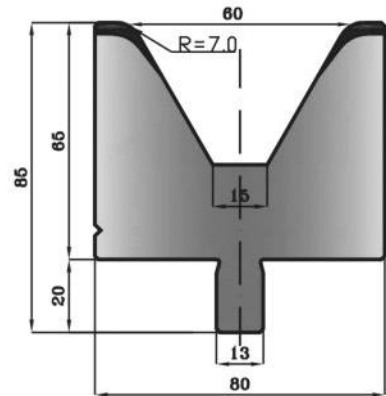
COD 31.790

$\alpha 60^\circ$ | Max. Tn/mt 100



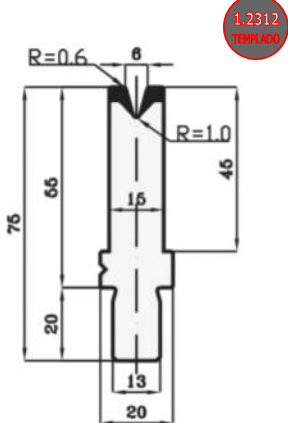
COD 31.140

$\alpha 60^\circ$ | Max. Tn/mt 100



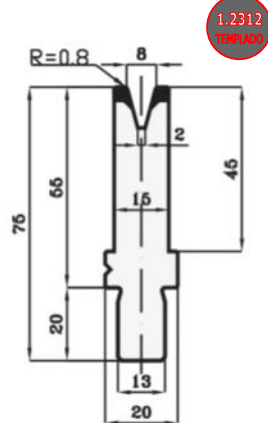
COD 31.150

$\alpha 30^\circ$ | Max. Tn/mt 35



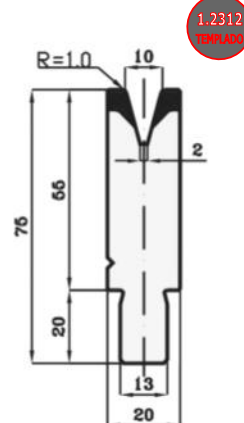
COD 31.160

$\alpha 30^\circ$ | Max. Tn/mt 35



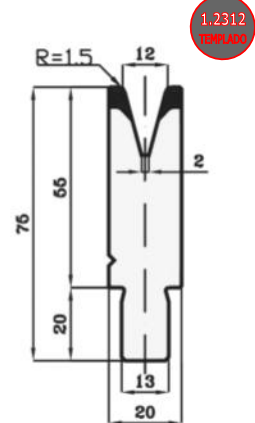
COD 31.170

$\alpha 30^\circ$ | Max. Tn/mt 50



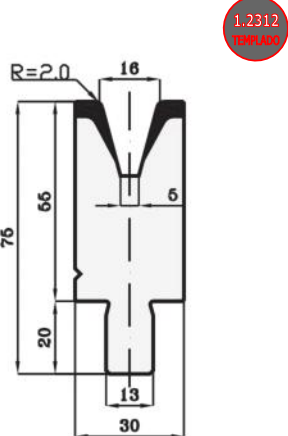
COD 31.180

$\alpha 30^\circ$ | Max. Tn/mt 40



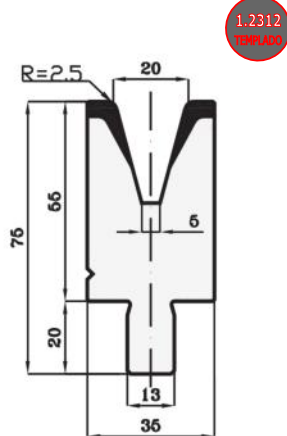
COD 31.190

$\alpha 30^\circ$ | Max. Tn/mt 45



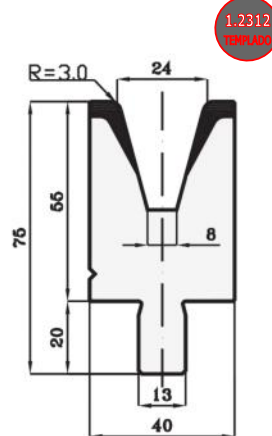
COD 31.200

$\alpha 30^\circ$ | Max. Tn/mt 50



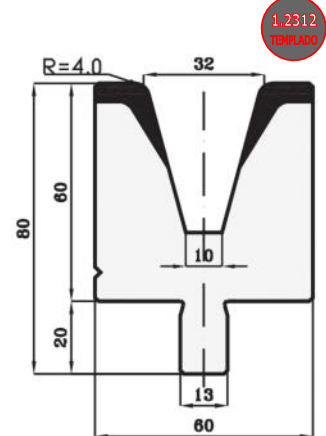
COD 31.210

$\alpha 30^\circ$ | Max. Tn/mt 50



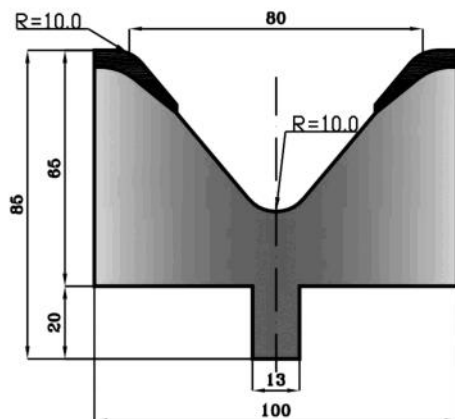
COD 31.220

$\alpha 30^\circ$ | Max. Tn/mt 50



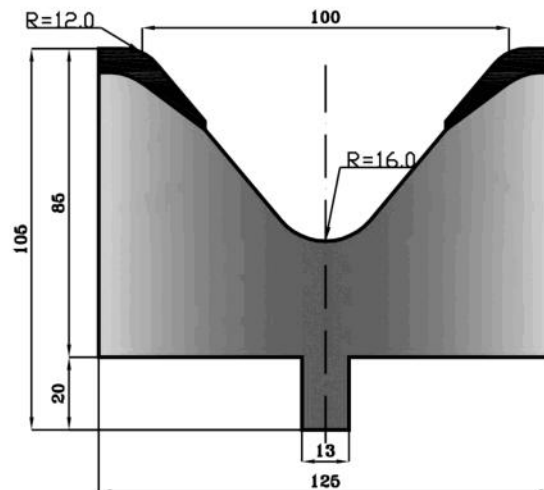
COD 31.101

$\alpha 80^\circ$ | Max. Tn/mt 100



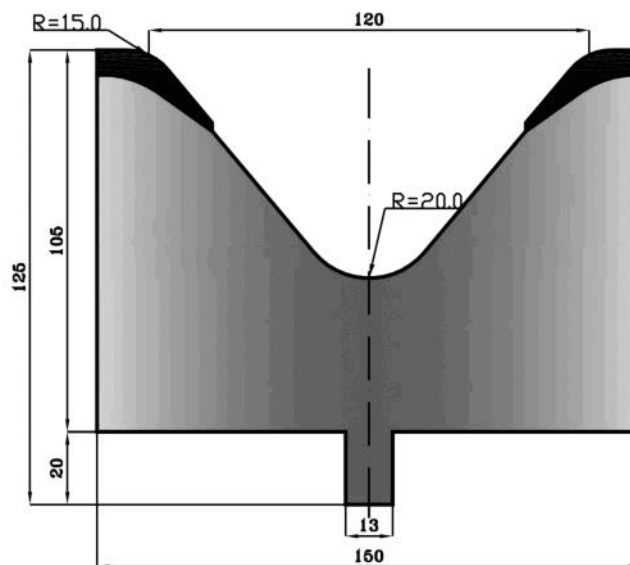
COD 31.102

$\alpha 80^\circ$ | Max. Tn/mt 100

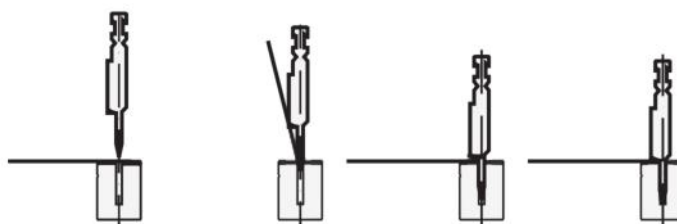


COD 31.103

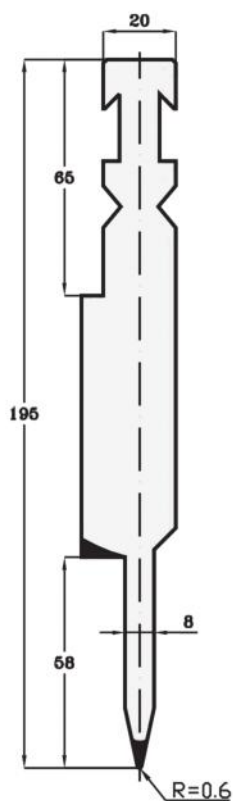
$\alpha 80^\circ$ | Max. Tn/mt 100



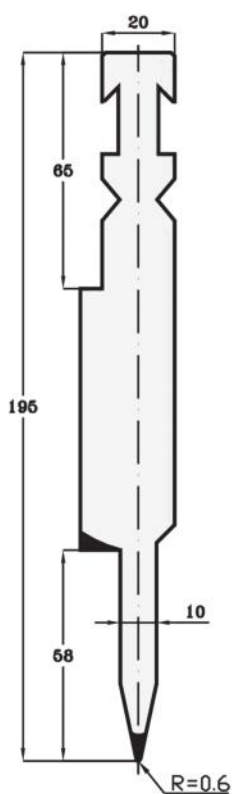
L=500
L=550 S



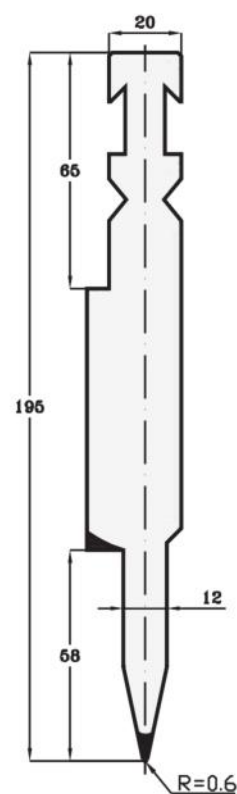
COD	α	R	H	MAX Tn/mt
12.520	24°	0.60	195.00	80



COD	α	R	H	MAX Tn/mt
12.530	24°	0.60	195.00	80

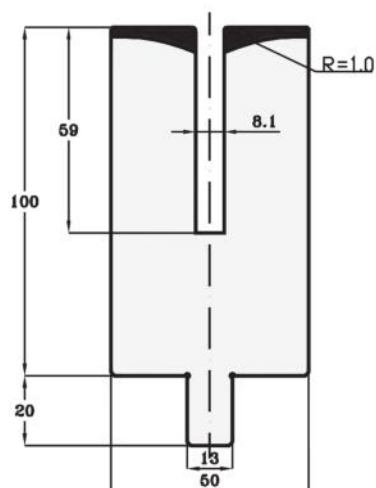


COD	α	R	H	MAX Tn/mt
12.540	24°	0.60	195.00	80



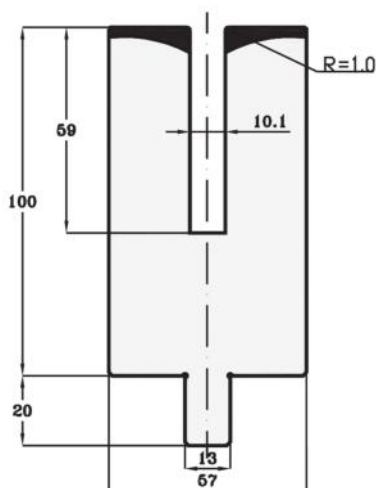
COD 31.570

Max. Tn/mt 50



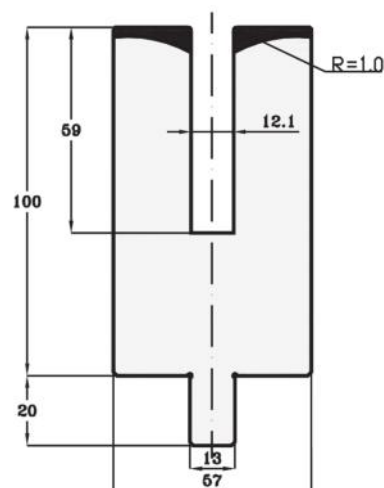
COD 31.740

Max. Tn/mt 50



COD 31.750

Max. Tn/mt 50



BEYELER-RFA®

PUNZONES / PUNCHES

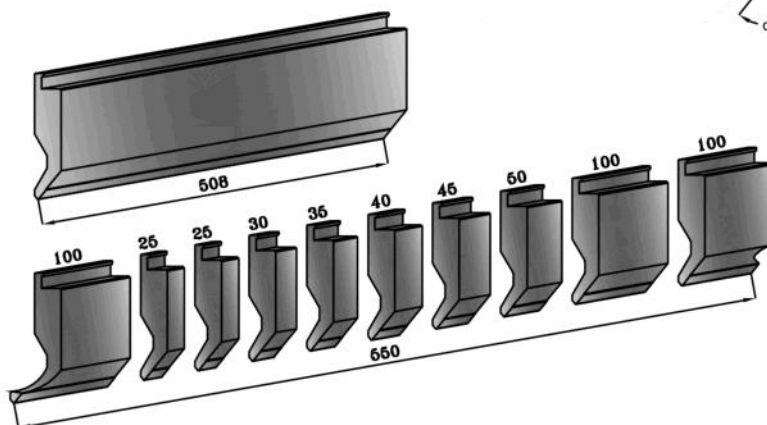
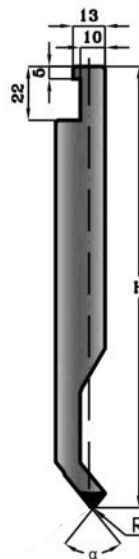
LOS PUNZONES ESTÁNDAR ESTAN DISPONIBLES EN LARGOS 500mm Y FRACCIONADO DE 550mm
STANDARD PUNCHES ARE AVAILABLE LENGTHS IN 500mm AND 550mm SEGMENTATION

LEYENDA / DESCRIPTION

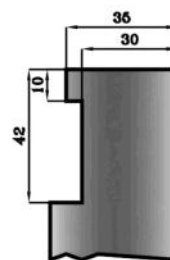
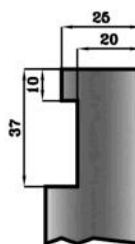
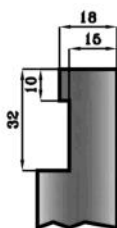
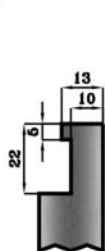
H = ALTURA PUNZÓN / PUNCH HEIGHT

α = ÁNGULO PUNZÓN / PUNCH DEGREE

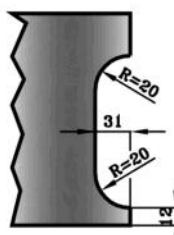
R = RADIO PUNZÓN / PUNCH RADIUS



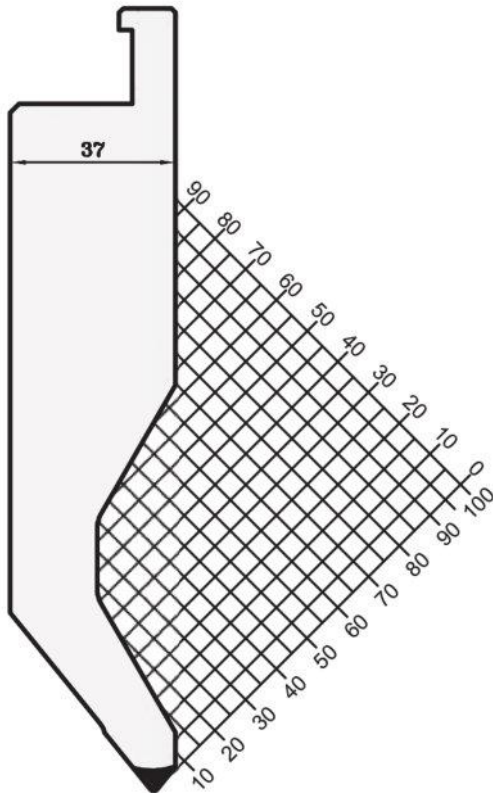
FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION



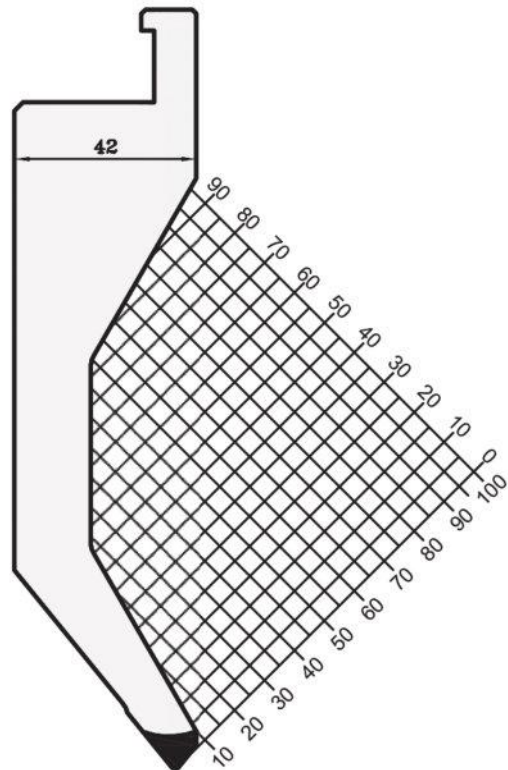
BIGORNIA FRACCIONADO ESTÁNDAR
STANDARD HORN



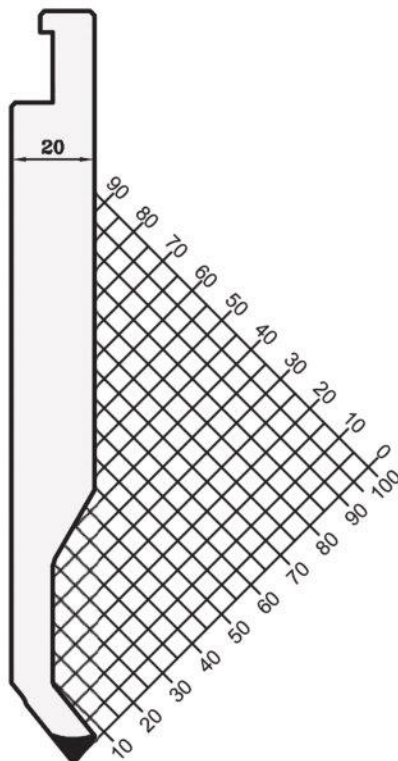
COD	α	R	H	MAX Tn/mt
14.100	78°	1.00	180.00	70



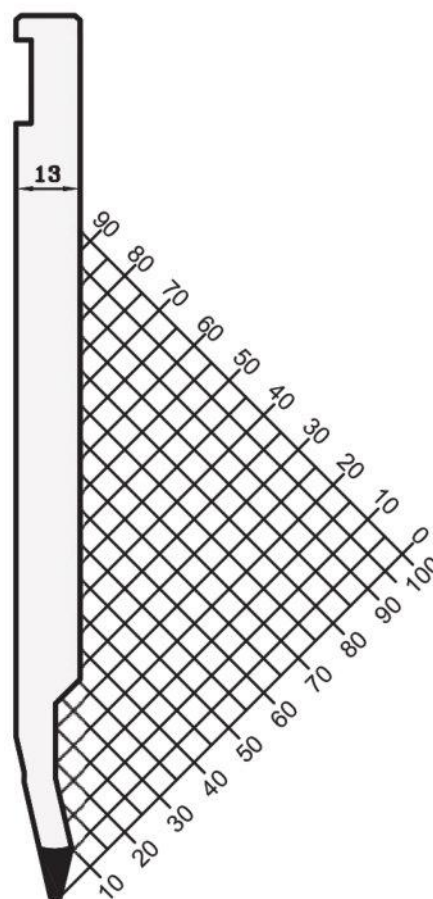
COD	α	R	H	MAX Tn/mt
14.101	78°	1.00	180.00	45



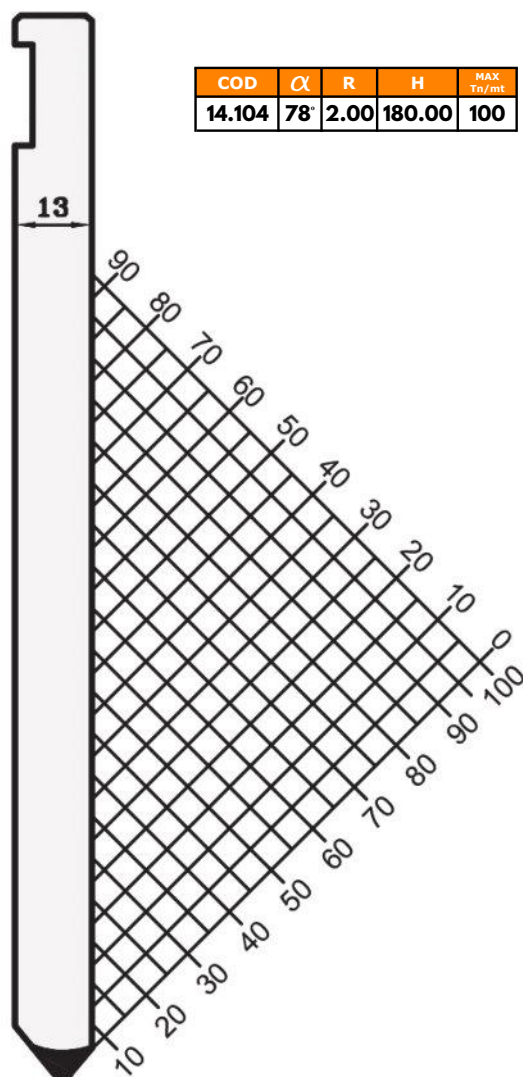
COD	α	R	H	MAX Tn/mt
14.102	78°	1.00	180.00	40



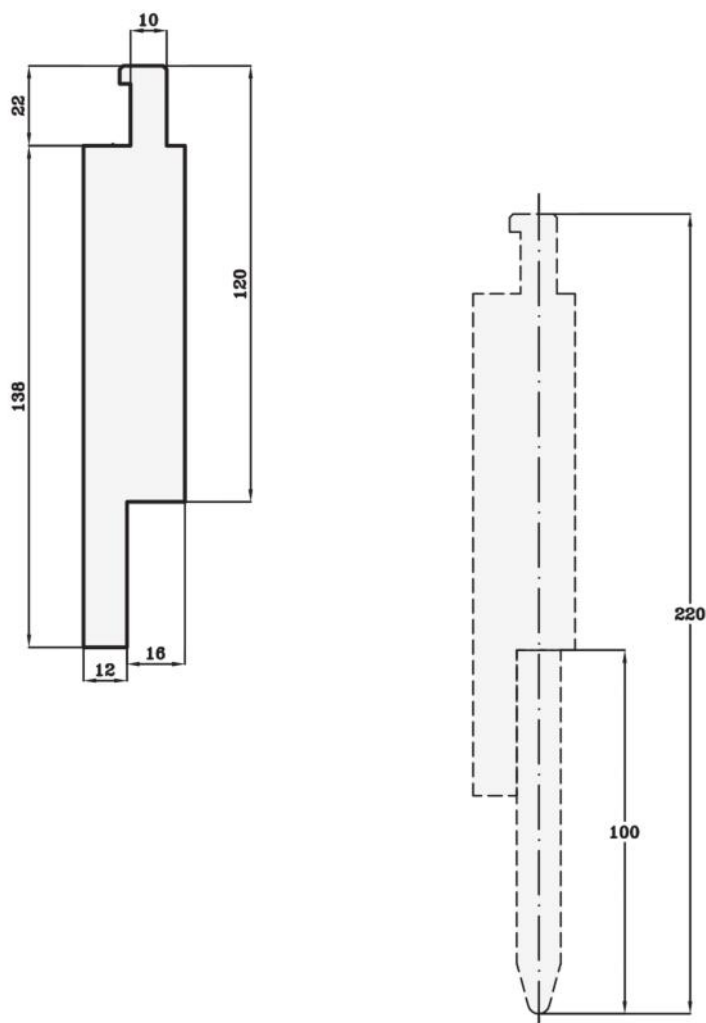
COD	α	R	H	MAX Tn/mt
14.103	26°	1.00	180.00	50



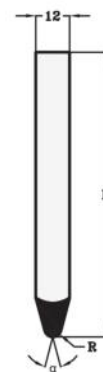
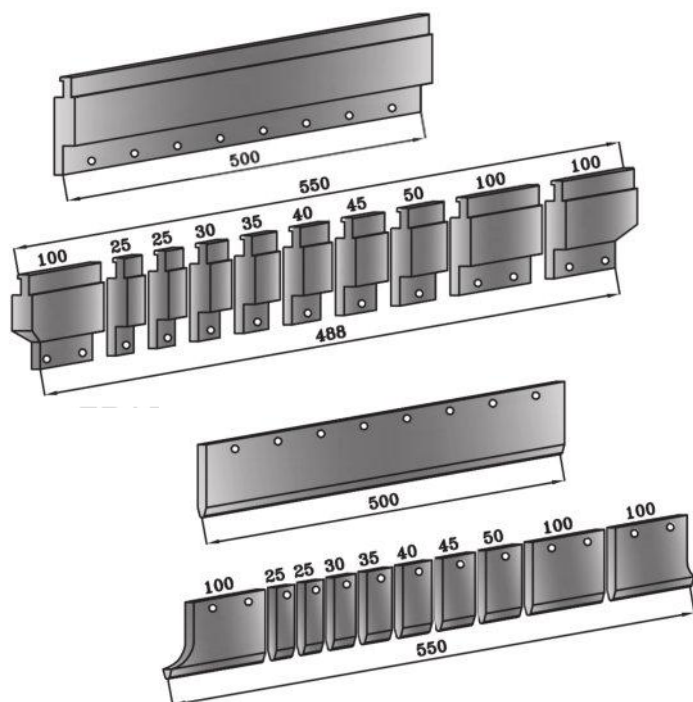
COD	α	R	H	MAX Tn/mt
14.104	78°	2.00	180.00	100



COD	MAX Tn/mt
14.105	100



FRACCIONADO ESTÁNDAR STANDARD SEGMENTATION



COD 13.500

$\alpha 28^\circ$ | R 0.50 | H 100.00 | Max. Tn/mt 100

COD 13.501

$\alpha 28^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.502

$\alpha 28^\circ$ | R 2.00 | H 100.00 | Max. Tn/mt 100

COD 13.503

$\alpha 28^\circ$ | R 3.00 | H 100.00 | Max. Tn/mt 100

COD 13.504

$\alpha 28^\circ$ | R 4.00 | H 100.00 | Max. Tn/mt 100

COD 13.505

$\alpha 28^\circ$ | R 5.00 | H 100.00 | Max. Tn/mt 100

COD 13.506

$\alpha 28^\circ$ | R 6.00 | H 100.00 | Max. Tn/mt 100

COD 13.520

$\alpha 84^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.530

$\alpha 86^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

COD 13.550

$\alpha 90^\circ$ | R 0.50 | H 100.00 | Max. Tn/mt 100

COD 13.551

$\alpha 90^\circ$ | R 1.00 | H 100.00 | Max. Tn/mt 100

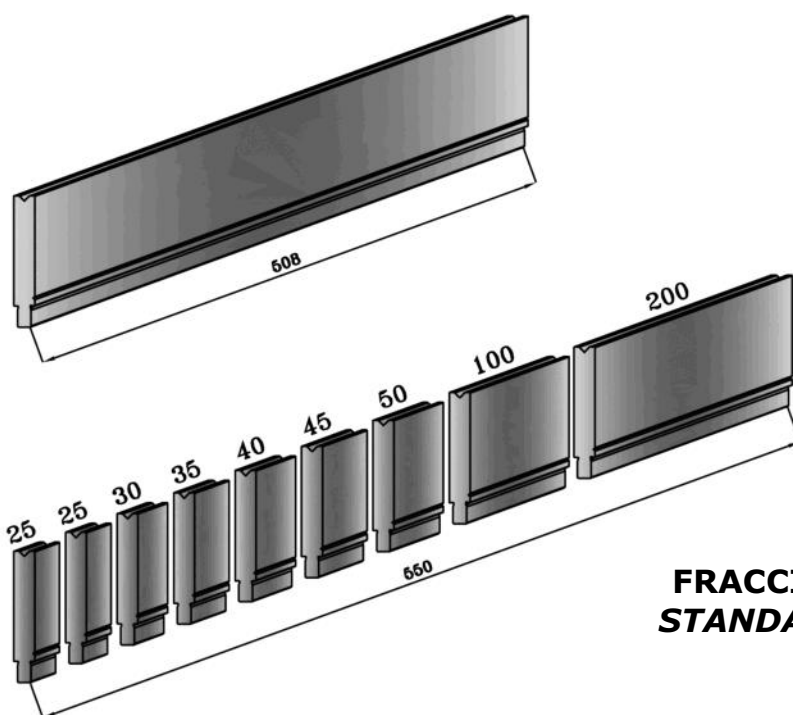
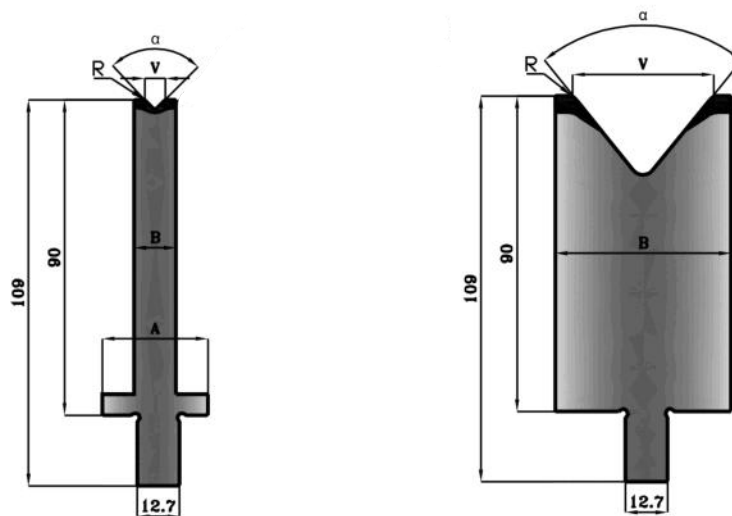
COD 13.552

$\alpha 90^\circ$ | R 1.50 | H 100.00 | Max. Tn/mt 100

COD 13.553

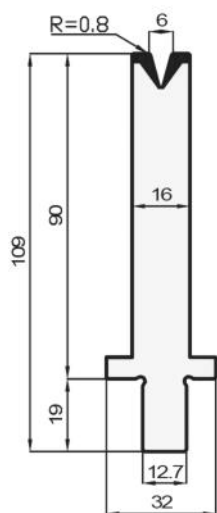
$\alpha 90^\circ$ | R 2.00 | H 100.00 | Max. Tn/mt 100

LAS MATRICES ESTÁNDAR ESTÁN DISPONIBLES EN LARGO: 508mm Y FRACCIONADO DE 550mm
STANDARD DIES ARE AVAILABLE IN LENGTHS: 508mm AND 550mm SEGMENTED

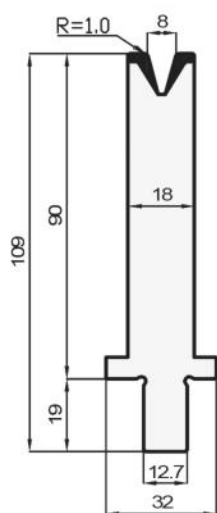


FRACCIONADO ESTÁNDAR
STANDARD SEGMENTATION

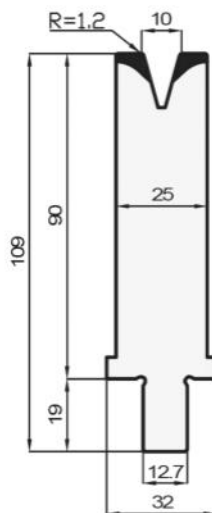
COD 32.100

 $\alpha 30^\circ$ | Max. Tn/mt 20


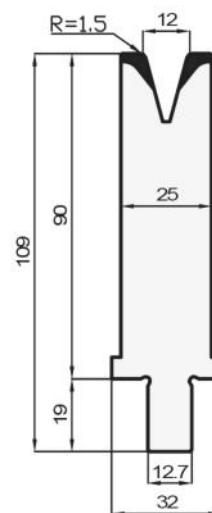
COD 32.101

 $\alpha 30^\circ$ | Max. Tn/mt 22


COD 32.102

 $\alpha 30^\circ$ | Max. Tn/mt 30


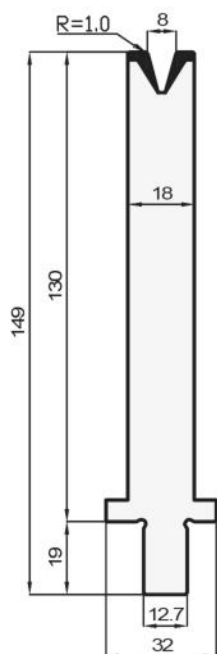
COD 32.103

 $\alpha 30^\circ$ | Max. Tn/mt 38


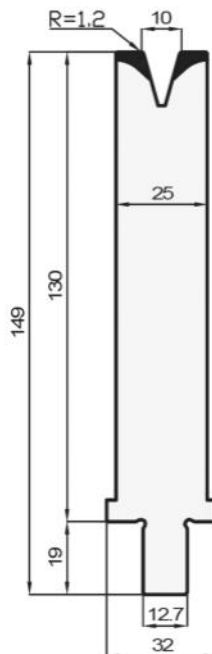
COD 32.124

 $\alpha 30^\circ$ | Max. Tn/mt 20

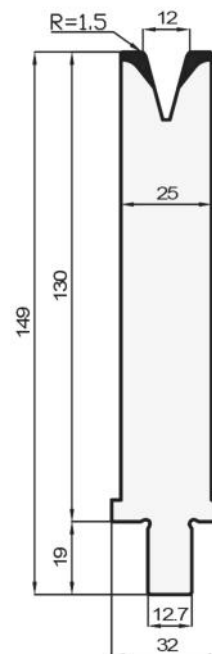

COD 32.125

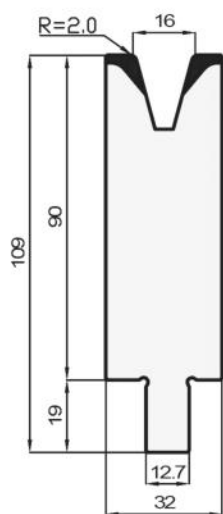
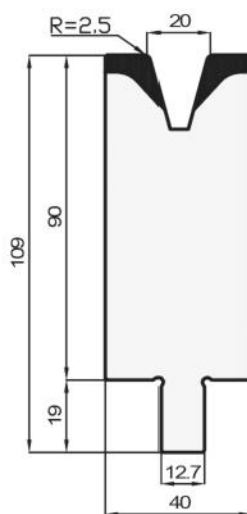
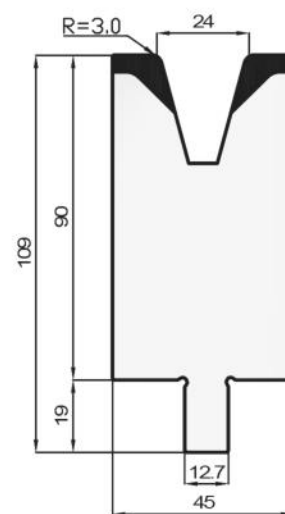
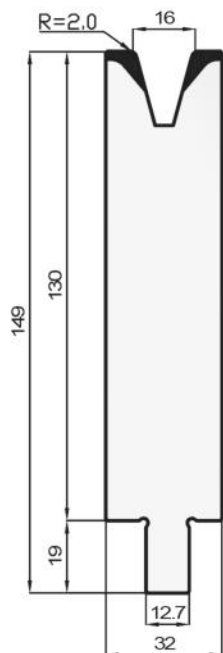
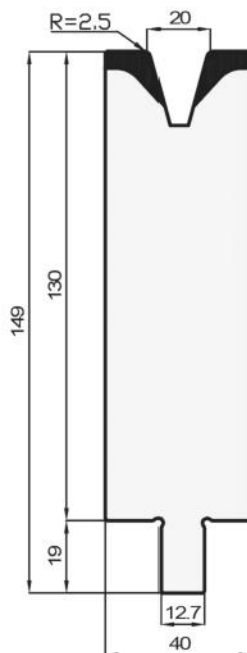
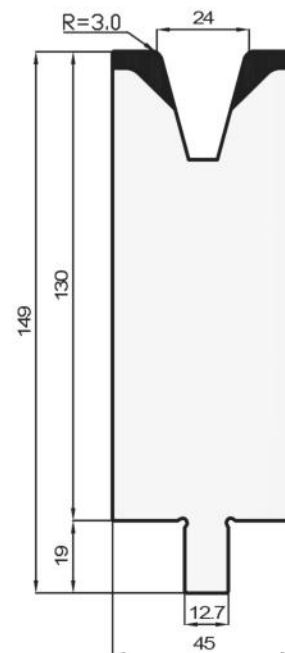
 $\alpha 30^\circ$ | Max. Tn/mt 22


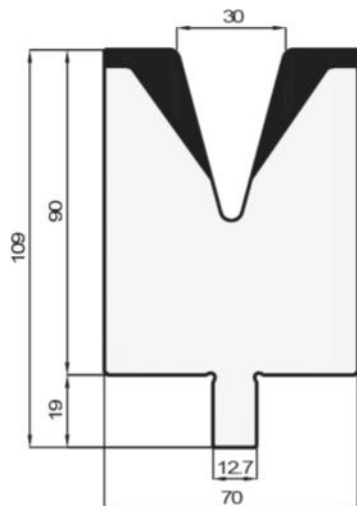
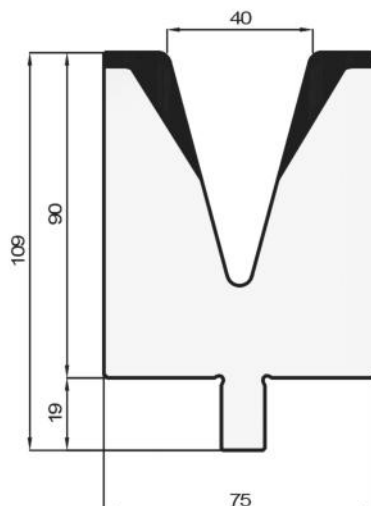
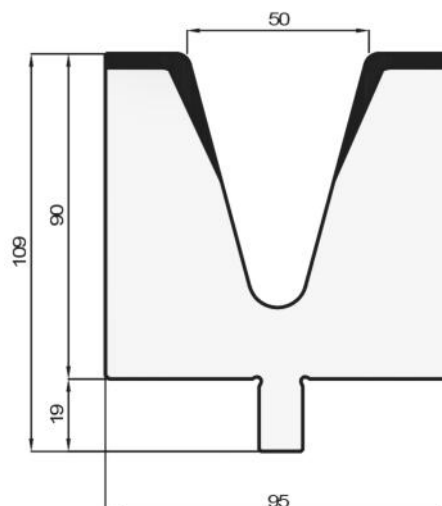
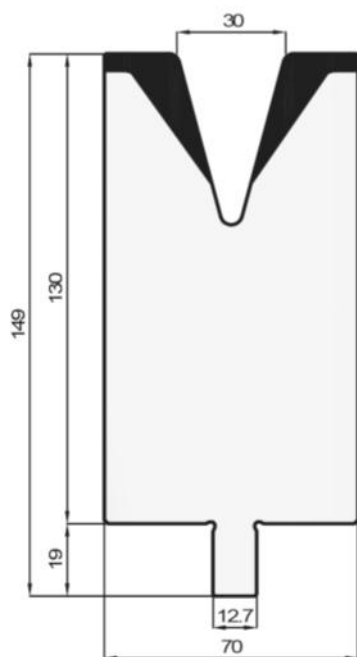
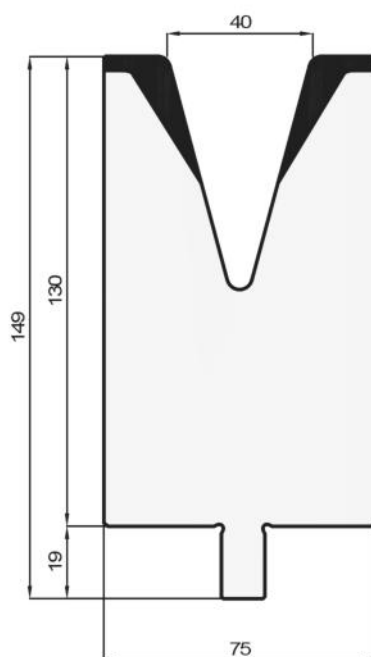
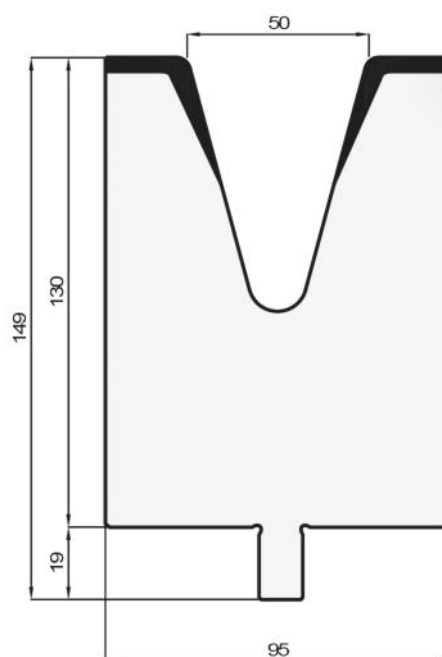
COD 32.126

 $\alpha 30^\circ$ | Max. Tn/mt 30


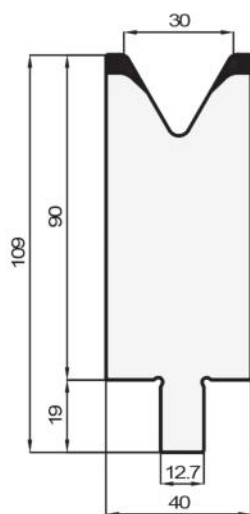
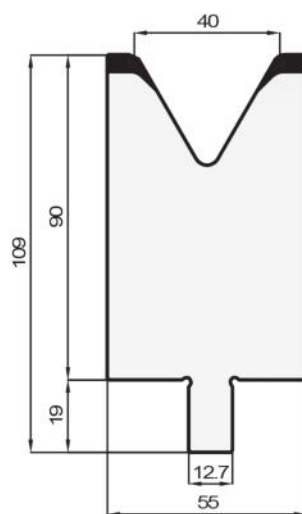
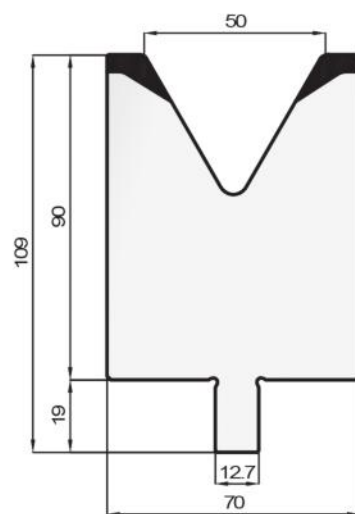
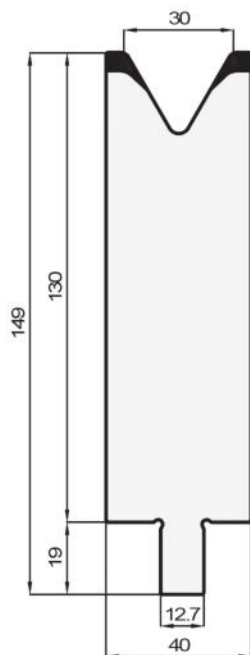
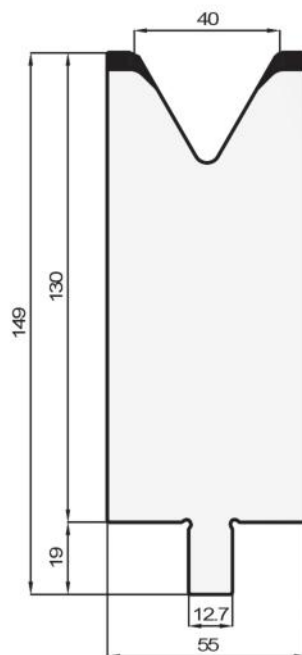
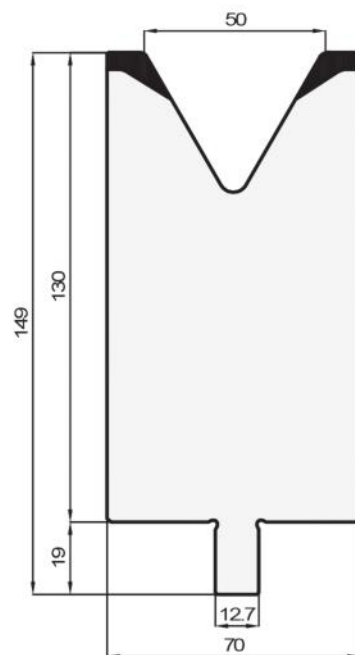
COD 32.127

 $\alpha 30^\circ$ | Max. Tn/mt 38


COD 32.108
 $\alpha 30^\circ$ | Max. Tn/mt 38

COD 32.109
 $\alpha 30^\circ$ | Max. Tn/mt 38

COD 32.110
 $\alpha 30^\circ$ | Max. Tn/mt 55

COD 32.128
 $\alpha 30^\circ$ | Max. Tn/mt 38

COD 32.129
 $\alpha 30^\circ$ | Max. Tn/mt 38

COD 32.130
 $\alpha 30^\circ$ | Max. Tn/mt 55


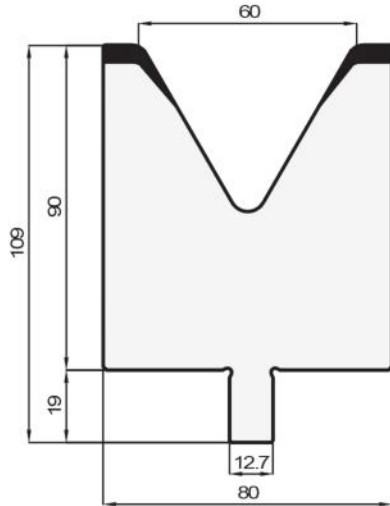
COD 32.131
 $\alpha 30^\circ$ | Max. Tn/mt 60

COD 32.132
 $\alpha 30^\circ$ | Max. Tn/mt 60

COD 32.133
 $\alpha 30^\circ$ | Max. Tn/mt 78

COD 32.134
 $\alpha 30^\circ$ | Max. Tn/mt 60

COD 32.135
 $\alpha 30^\circ$ | Max. Tn/mt 60

COD 32.136
 $\alpha 30^\circ$ | Max. Tn/mt 78


LVD®

COD 32.137
 $\alpha 60^\circ$ | Max. Tn/mt 50

COD 32.138
 $\alpha 60^\circ$ | Max. Tn/mt 66

COD 32.139
 $\alpha 60^\circ$ | Max. Tn/mt 105

COD 32.140
 $\alpha 60^\circ$ | Max. Tn/mt 50

COD 32.141
 $\alpha 60^\circ$ | Max. Tn/mt 66

COD 32.142
 $\alpha 60^\circ$ | Max. Tn/mt 105


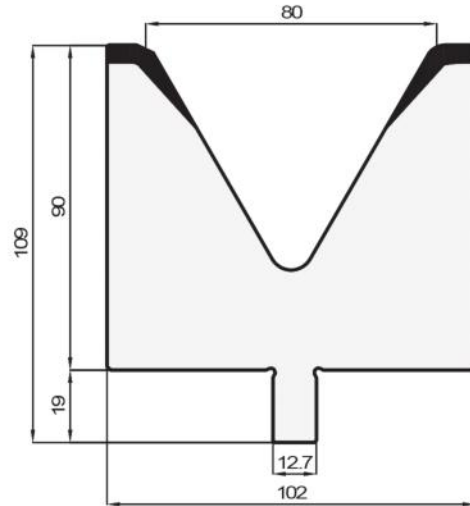
COD 32.143

$\alpha 60^\circ$ | Max. Tn/mt 135



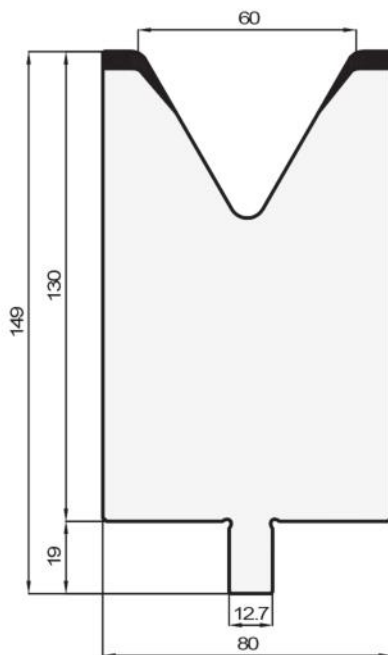
COD 32.144

$\alpha 60^\circ$ | Max. Tn/mt 175



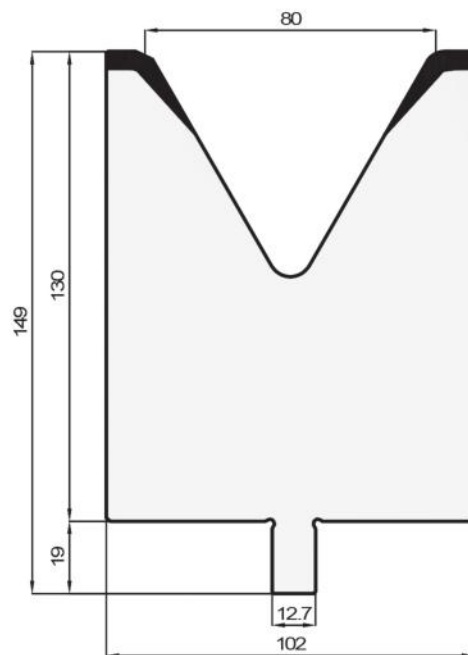
COD 32.145

$\alpha 60^\circ$ | Max. Tn/mt 135



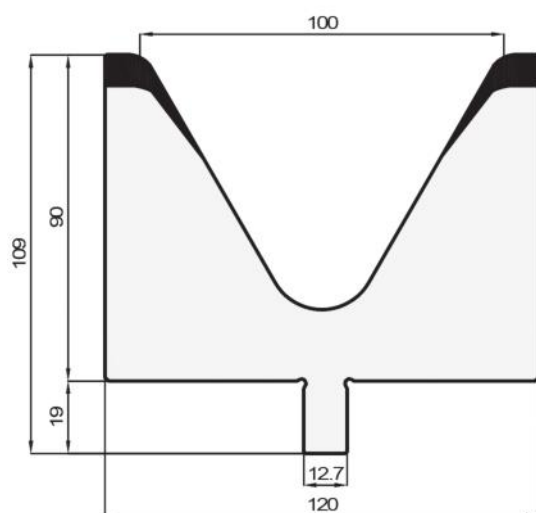
COD 32.146

$\alpha 60^\circ$ | Max. Tn/mt 175



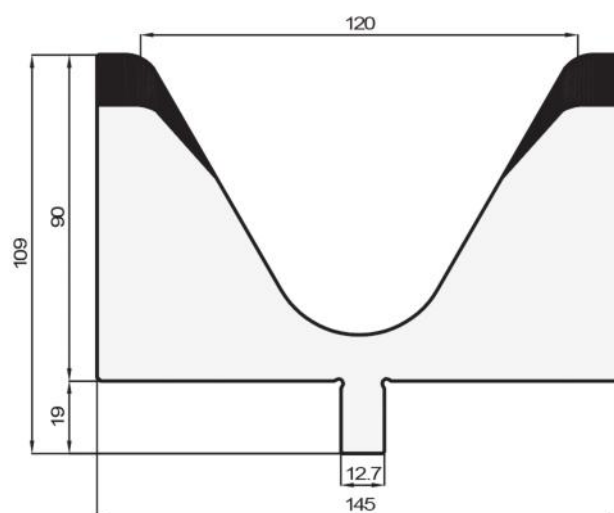
COD 32.147

$\alpha 60^\circ$ | Max. Tn/mt 150



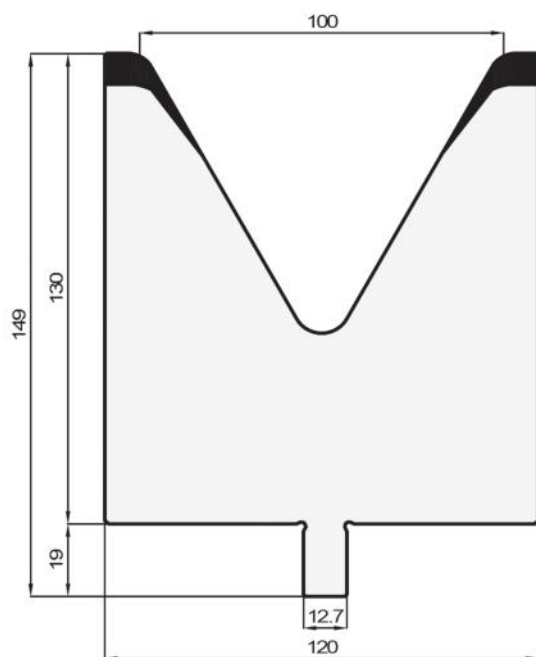
COD 32.148

$\alpha 60^\circ$ | Max. Tn/mt 130



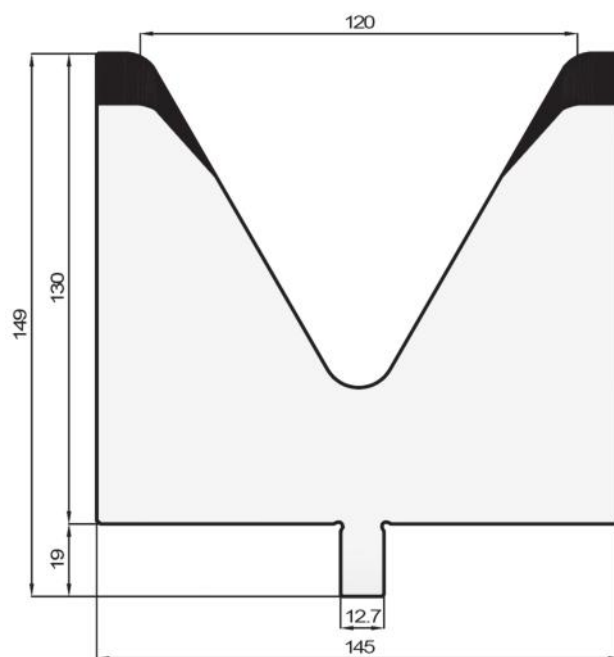
COD 32.149

$\alpha 60^\circ$ | Max. Tn/mt 150



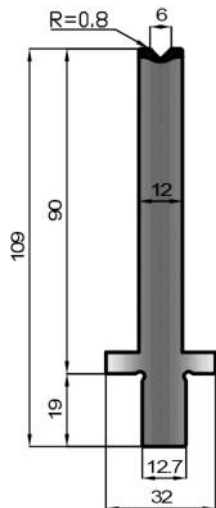
COD 32.150

$\alpha 60^\circ$ | Max. Tn/mt 130



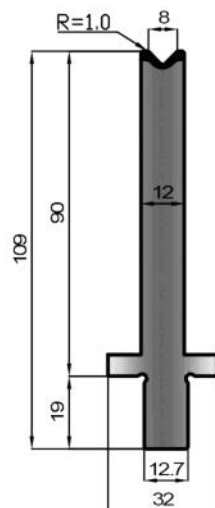
COD 32.104

$\alpha 78^\circ$ | Max. Tn/mt 40



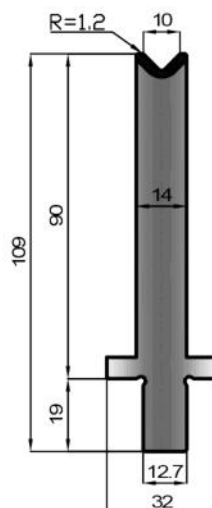
COD 32.105

$\alpha 78^\circ$ | Max. Tn/mt 40



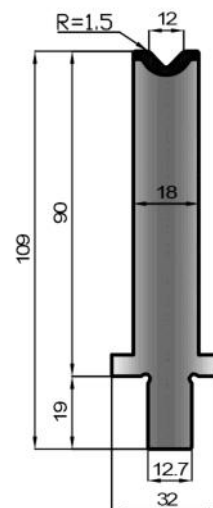
COD 32.106

$\alpha 78^\circ$ | Max. Tn/mt 50



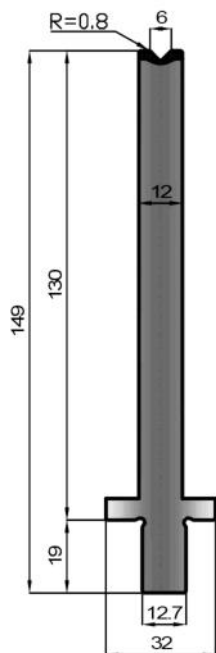
COD 32.107

$\alpha 78^\circ$ | Max. Tn/mt 60



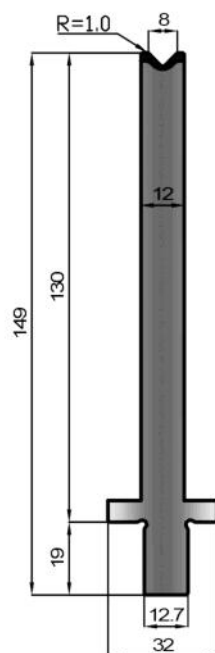
COD 32.151

$\alpha 78^\circ$ | Max. Tn/mt 40



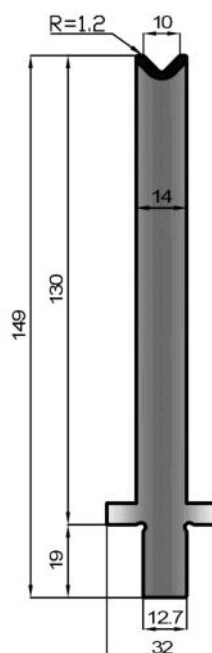
COD 32.152

$\alpha 78^\circ$ | Max. Tn/mt 40



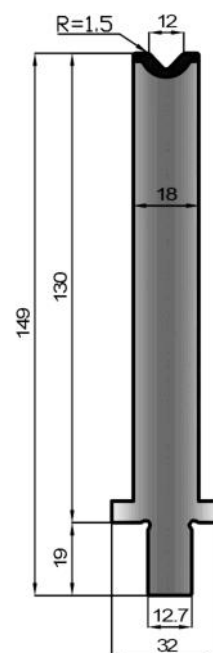
COD 32.153

$\alpha 78^\circ$ | Max. Tn/mt 50



COD 32.154

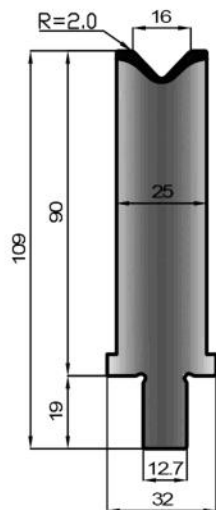
$\alpha 78^\circ$ | Max. Tn/mt 60



LVD®

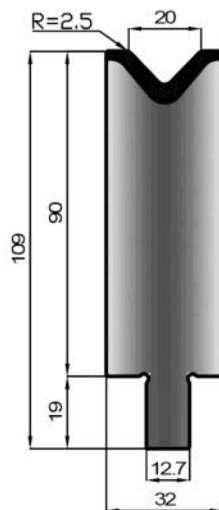
COD 32.111

$\alpha 78^\circ$ | Max. Tn/mt 80



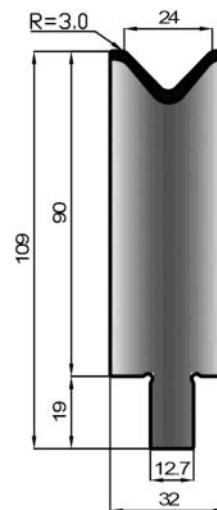
COD 32.112

$\alpha 78^\circ$ | Max. Tn/mt 100



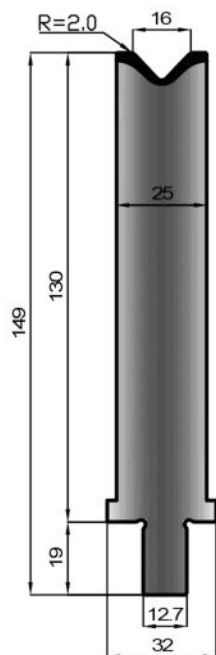
COD 32.113

$\alpha 78^\circ$ | Max. Tn/mt 100



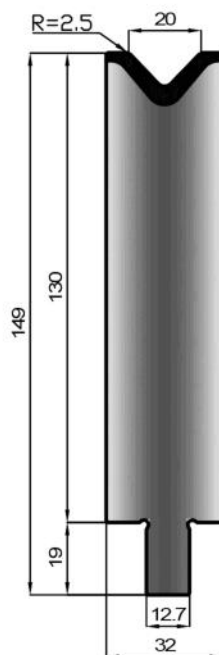
COD 32.155

$\alpha 78^\circ$ | Max. Tn/mt 80



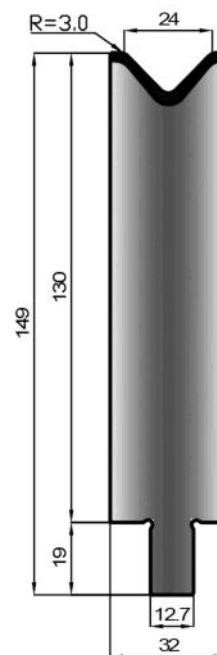
COD 32.156

$\alpha 78^\circ$ | Max. Tn/mt 100



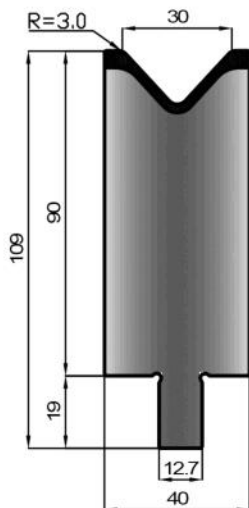
COD 32.157

$\alpha 78^\circ$ | Max. Tn/mt 100



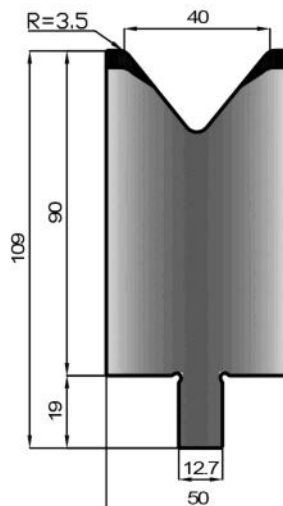
COD 32.114

$\alpha 78^\circ$ | Max. Tn/mt 110



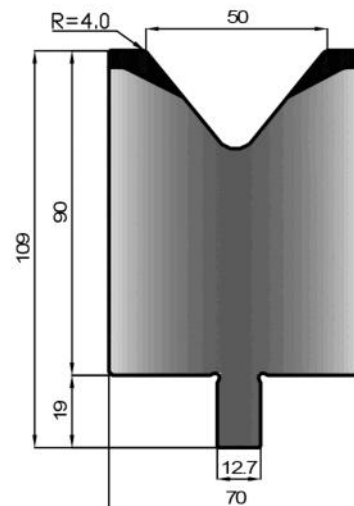
COD 32.115

$\alpha 78^\circ$ | Max. Tn/mt 130



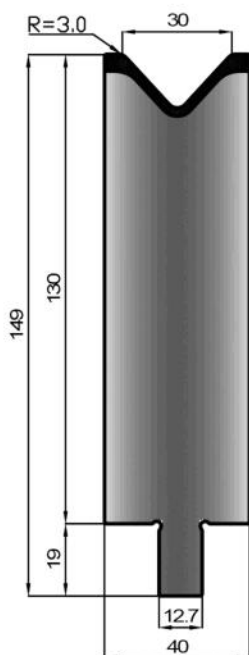
COD 32.116

$\alpha 78^\circ$ | Max. Tn/mt 150



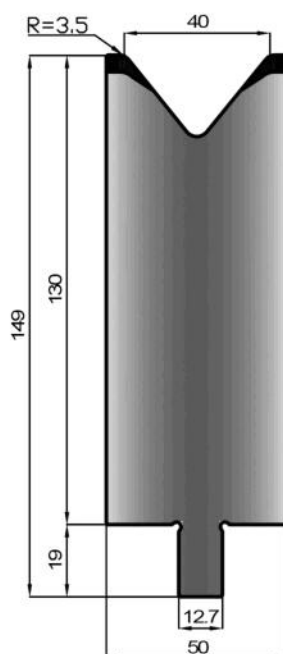
COD 32.158

$\alpha 78^\circ$ | Max. Tn/mt 110



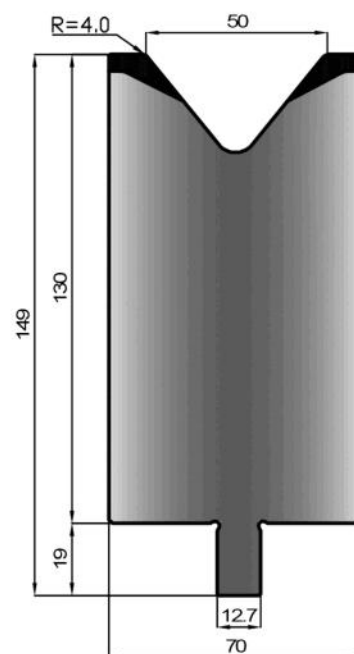
COD 32.159

$\alpha 78^\circ$ | Max. Tn/mt 130



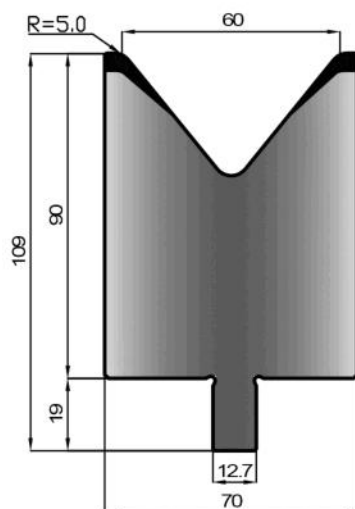
COD 32.160

$\alpha 78^\circ$ | Max. Tn/mt 150



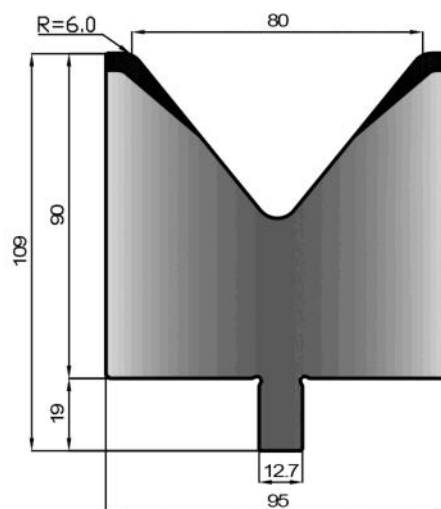
COD 32.117

$\alpha 78^\circ$ | Max. Tn/mt 150



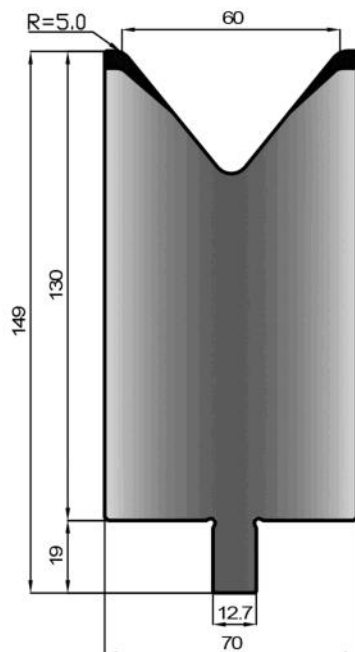
COD 32.118

$\alpha 78^\circ$ | Max. Tn/mt 150



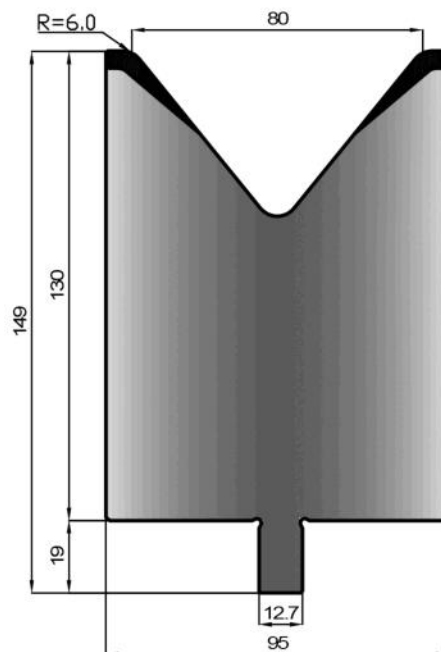
COD 32.161

$\alpha 78^\circ$ | Max. Tn/mt 150



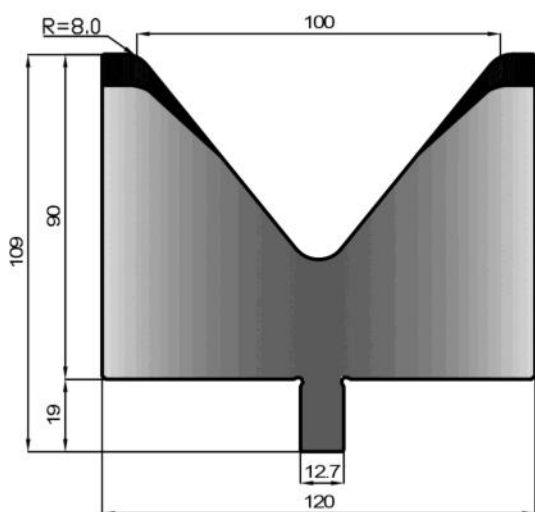
COD 32.162

$\alpha 78^\circ$ | Max. Tn/mt 150



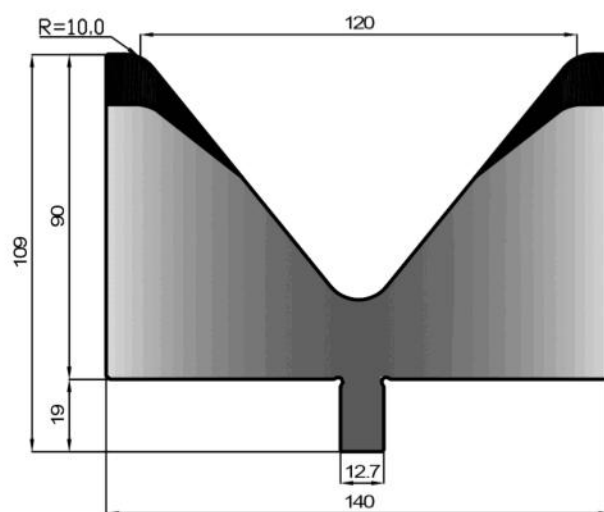
COD 32.119

$\alpha 78^\circ$ | Max. Tn/mt 150



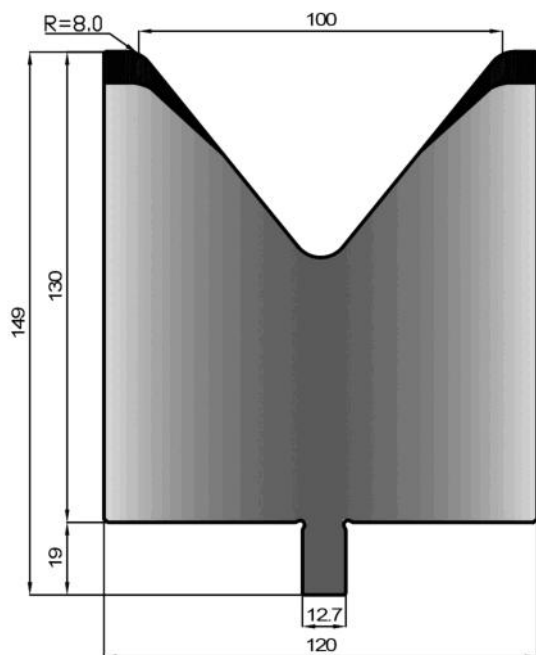
COD 32.163

$\alpha 78^\circ$ | Max. Tn/mt 150



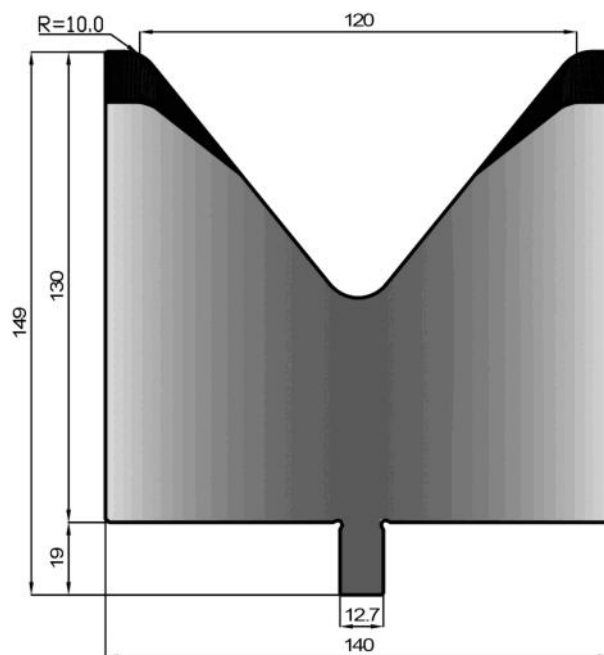
COD 32.164

$\alpha 78^\circ$ | Max. Tn/mt 150



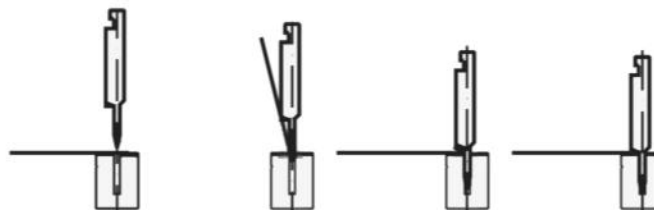
COD 32.120

$\alpha 78^\circ$ | Max. Tn/mt 150



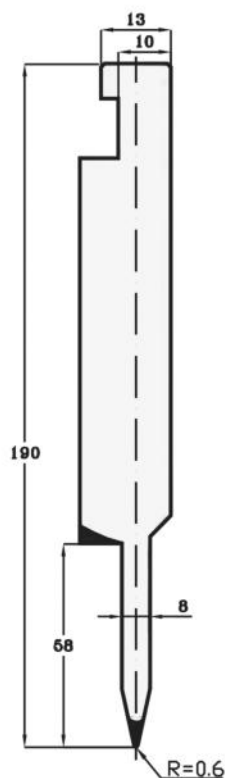
LVD®

L=508
L=550 S



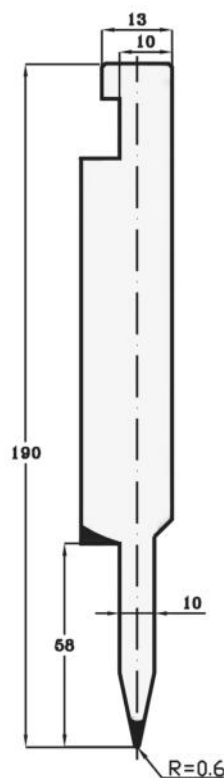
COD 12.491

$\alpha 20^\circ$ | Max. Tn/mt 80



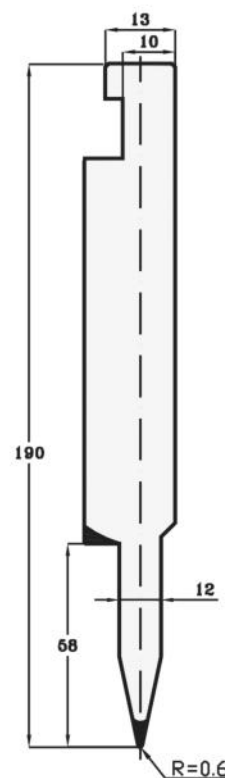
COD 12.492

$\alpha 20^\circ$ | Max. Tn/mt 80



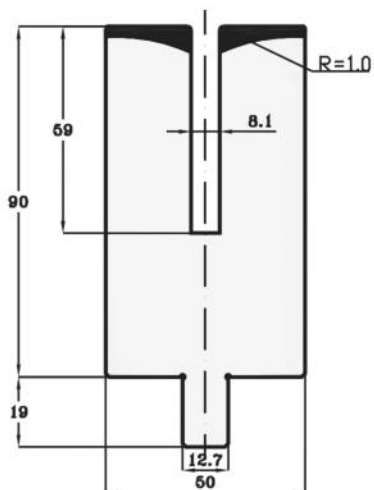
COD 12.493

$\alpha 20^\circ$ | Max. Tn/mt 80



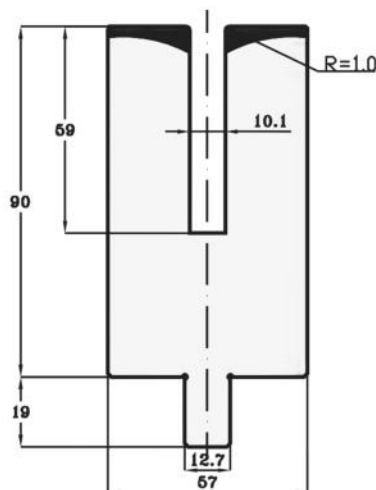
COD 32.121

Max. Tn/mt 50



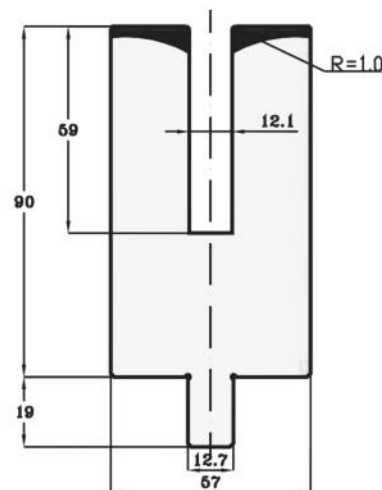
COD 32.122

Max. Tn/mt 50

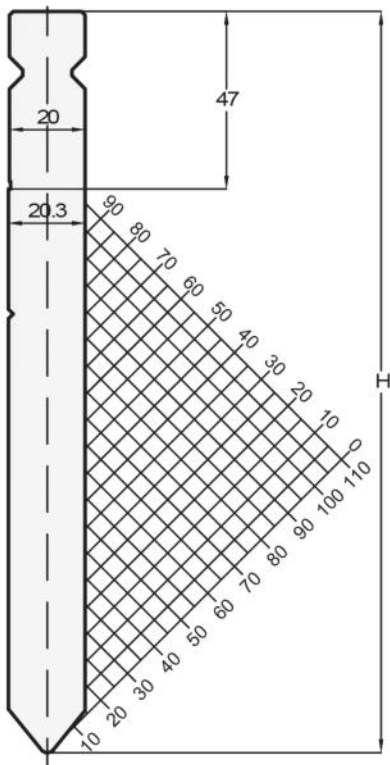


COD 32.123

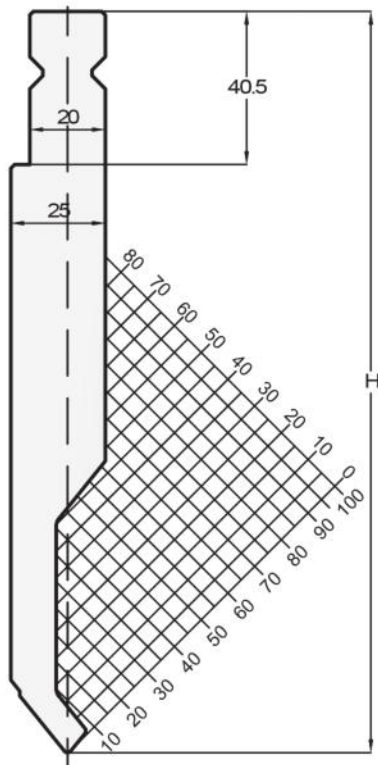
Max. Tn/mt 50



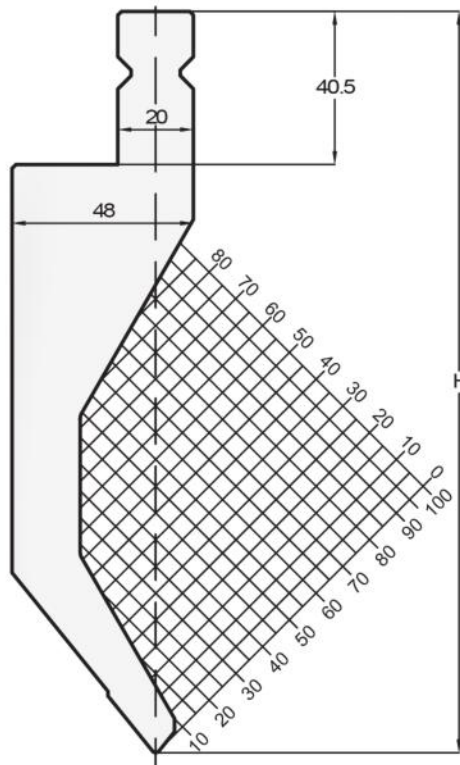
COD	α	R	H	MAX Tn/mt
18.001	78°	2.00	196.00	80



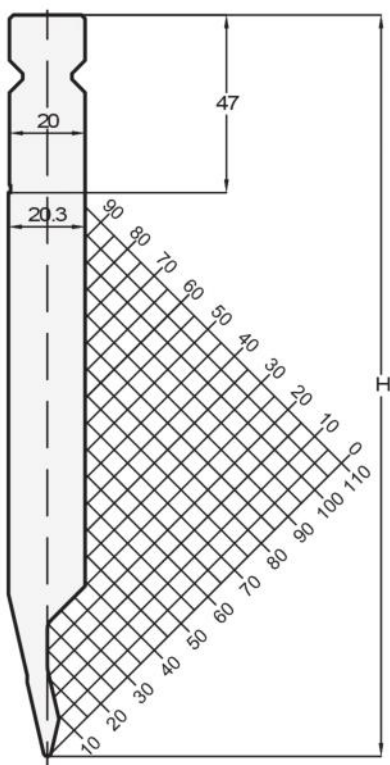
COD	α	R	H	MAX Tn/mt
18.002	78°	1.00	196.00	40



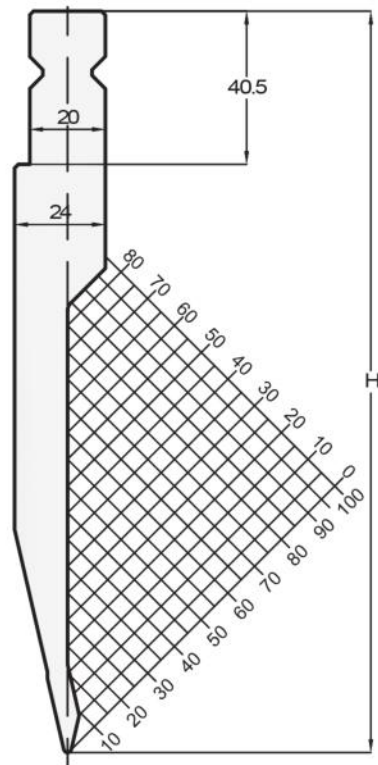
COD	α	R	H	MAX Tn/mt
18.003	78°	1.00	196.00	40



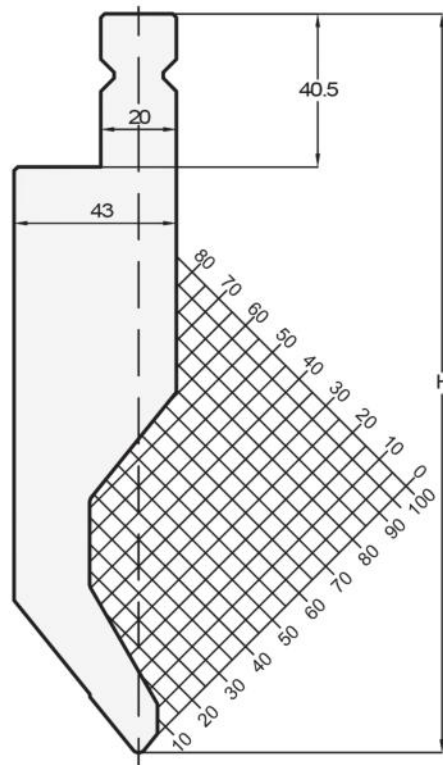
COD	α	R	H	MAX Tn/mt
18.004	26°	1.00	196.00	40



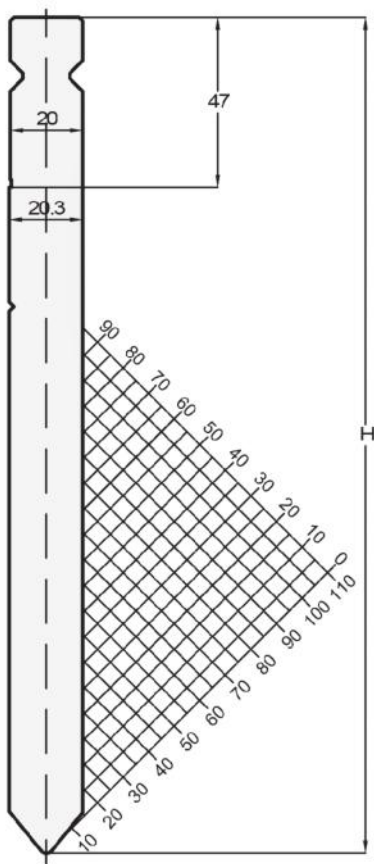
COD	α	R	H	MAX Tn/mt
18.005	26°	1.00	196.00	40



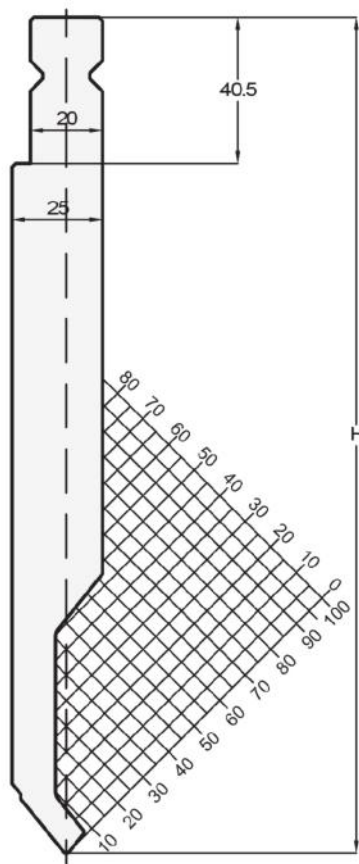
COD	α	R	H	MAX Tn/mt
18.006	78°	2.00	196.00	70



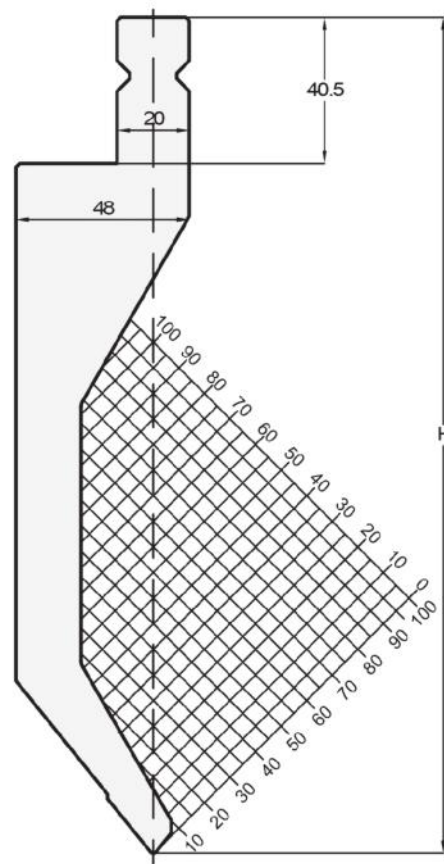
COD	α	R	H	MAX Tn/mt
18.007	78°	3.00	231.00	120



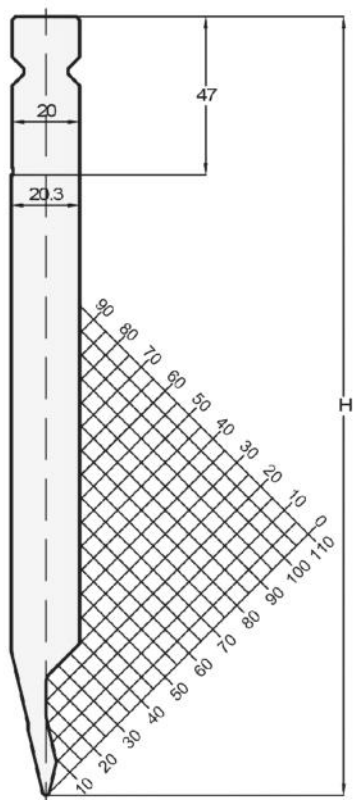
COD	α	R	H	MAX Tn/mt
18.008	78°	2.00	231.00	50



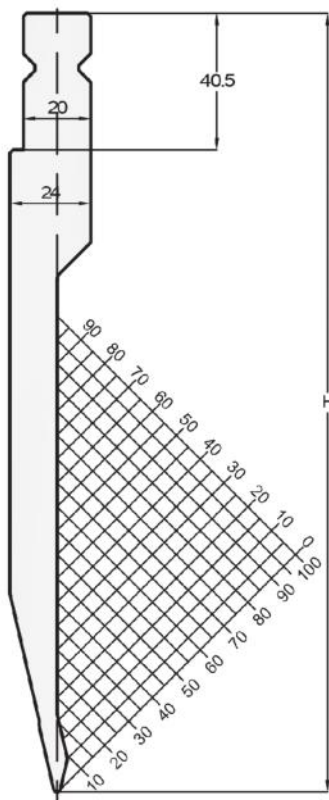
COD	α	R	H	MAX Tn/mt
18.009	78°	2.00	231.00	75



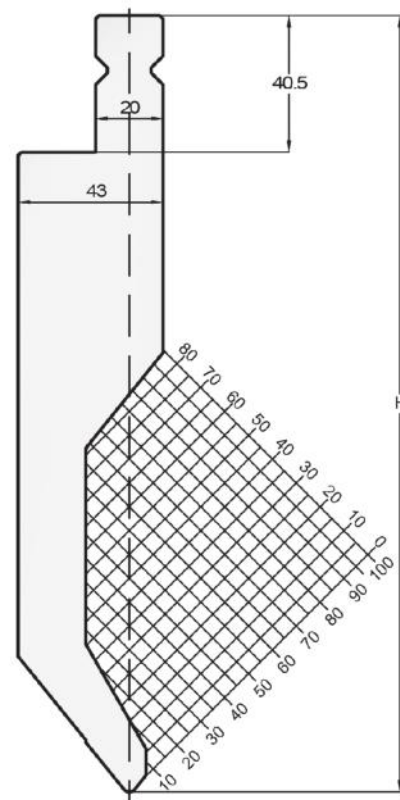
COD	α	R	H	MAX Tn/mt
18.010	26°	2.00	231.00	50

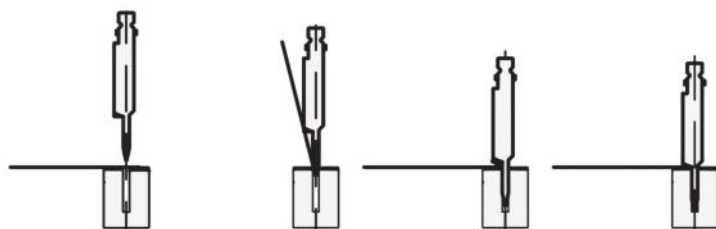


COD	α	R	H	MAX Tn/mt
18.011	26°	2.00	231.00	50



COD	α	R	H	MAX Tn/mt
18.012	78°	2.00	231.00	80



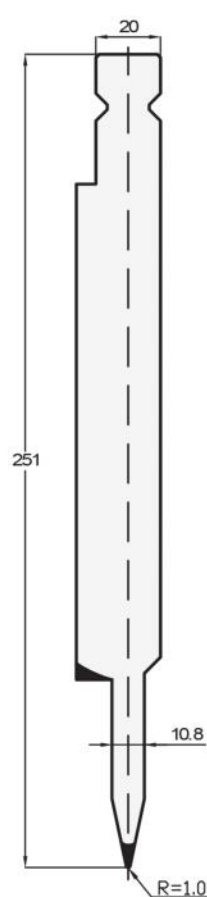
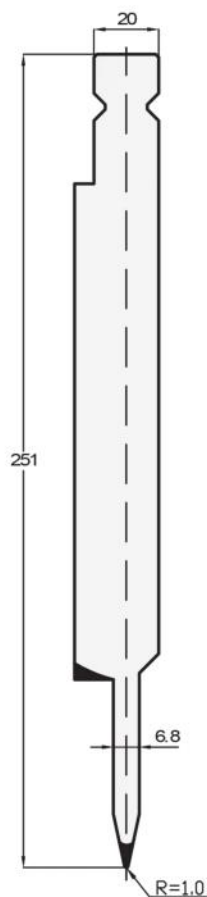
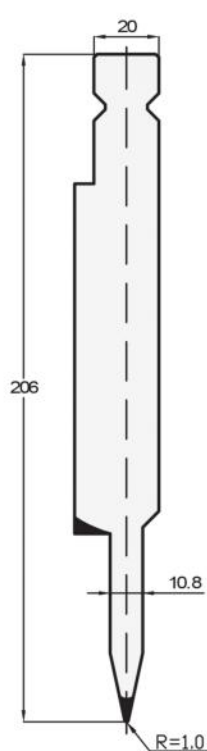
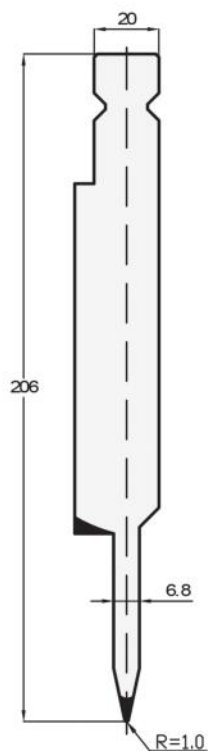


L=500
L=550 S

COD 18.013
 $\alpha 20^\circ$ | Max. Tn/mt 40

COD 18.014
 $\alpha 20^\circ$ | Max. Tn/mt 40

COD 18.015
 $\alpha 20^\circ$ | Max. Tn/mt 40

COD 18.016
 $\alpha 20^\circ$ | Max. Tn/mt 60

COD 32.165

Max. Tn/mt 50

COD 32.166

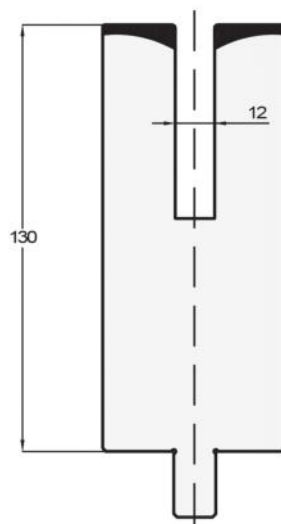
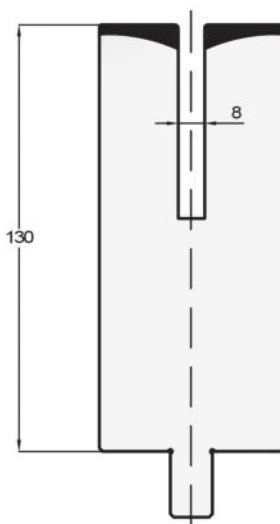
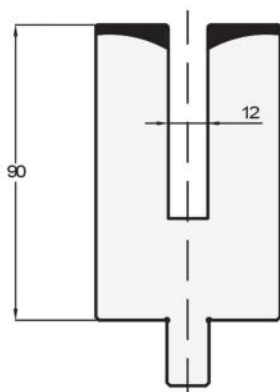
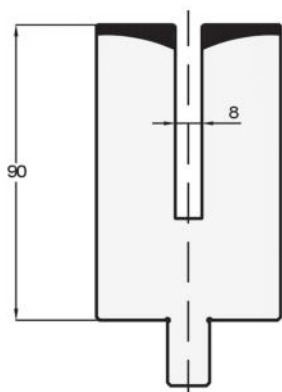
Max. Tn/mt 50

COD 32.167

Max. Tn/mt 50

COD 32.168

Max. Tn/mt 50



LVD WILA®

PUNZONES / PUNCHES

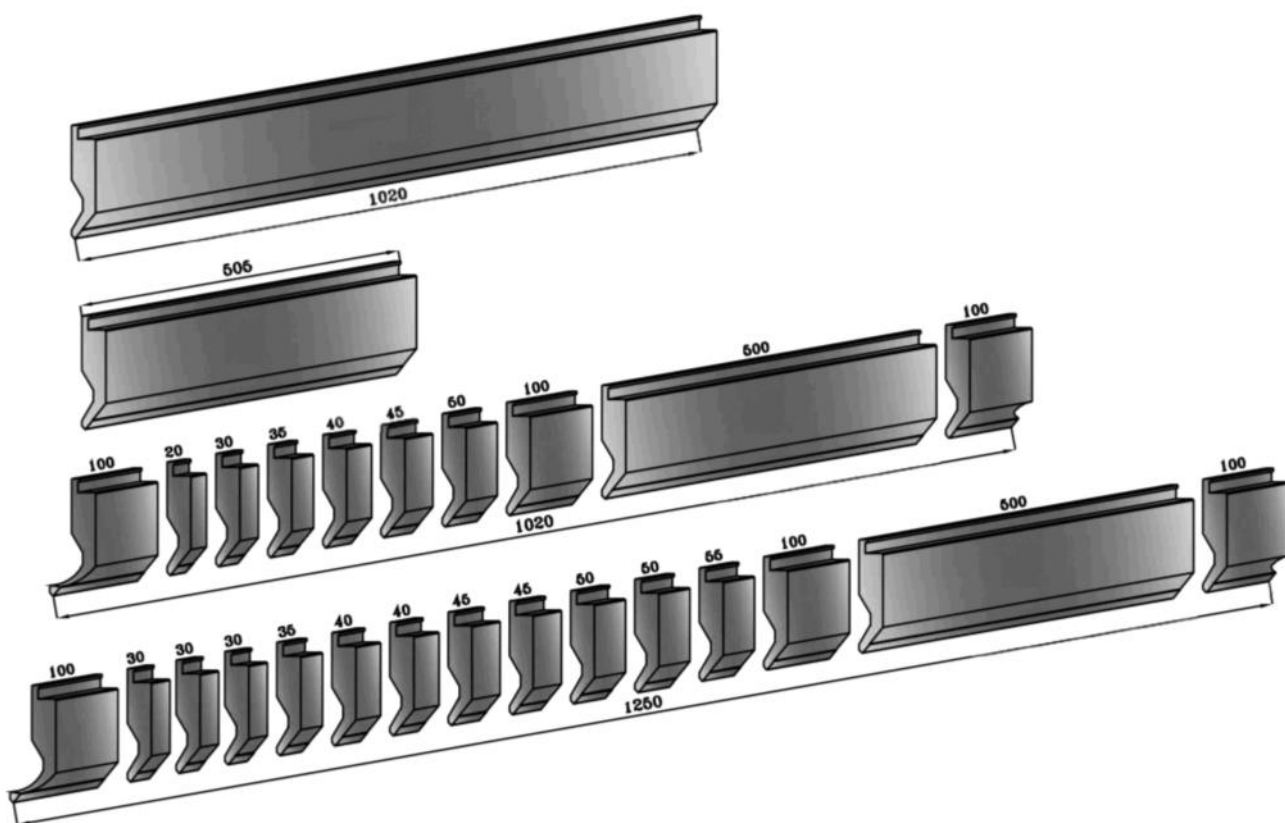
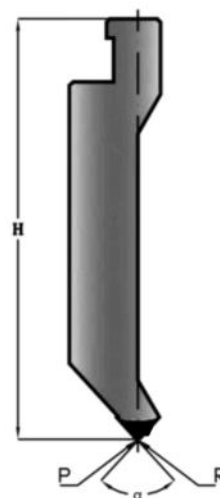
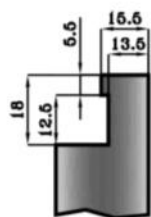
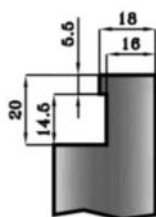
LOS PUNZONES ESTÁNDAR ESTAN DISPONIBLES EN LARGOS 1020mm, 505mm Y FRACCIONADO DE 1020mm, 1250mm
STANDARD PUNCHES ARE AVAILABLE LENGTHS IN 1020mm, 505mm AND 1020mm, 1250mm SEGMENTATION

LEYENDA / DESCRIPTION

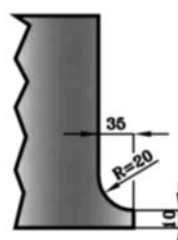
H = ALTURA PUNZÓN / PUNCH HEIGHT

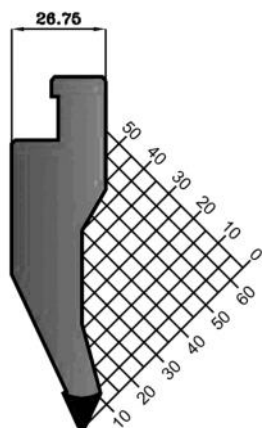
α = ÁNGULO PUNZÓN / PUNCH DEGREE

R = RADIO PUNZÓN / PUNCH RADIUS

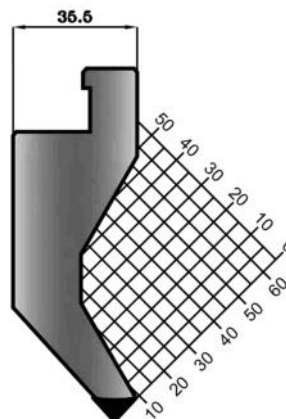


BIGORNIA FRACCIONADO ESTÁNDAR STANDARD HORN

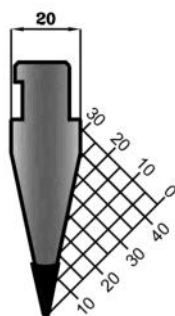




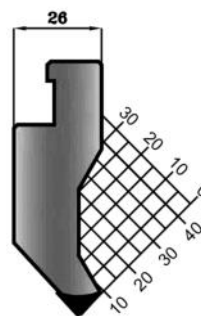
COD	EQV.	α	R	H	MAX Tn/mt
15.100		50°	1.00	100.00	100



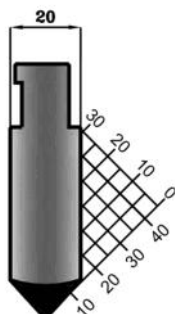
COD	EQV.	α	P	H	MAX Tn/mt
15.101	U-14401	90°	0.80	100.00	100
15.102		88°	0.80	100.00	100
15.103		85°	0.70	100.00	100



COD	EQV.	α	R	H	MAX Tn/mt
10.104	U-14418	24°	0.60	72.00	80



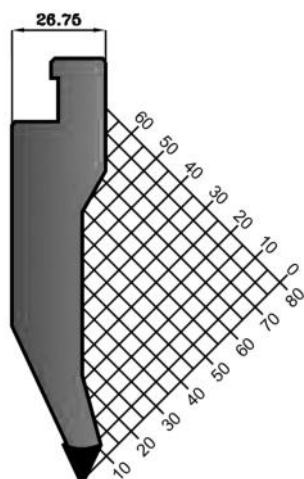
COD	EQV.	α	P	H	MAX Tn/mt
15.105	U-14411	90°	0.80	72.00	80
15.106		88°	0.80	72.00	80
15.107	U-14412	85°	0.70	72.00	80



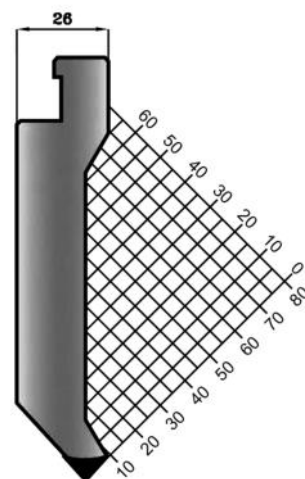
COD	EQV.	α	P	H	MAX Tn/mt
15.108		90°	0.80	72.00	80
15.126		88°	0.80	72.00	80
15.127	U-14420	85°	0.70	72.00	80



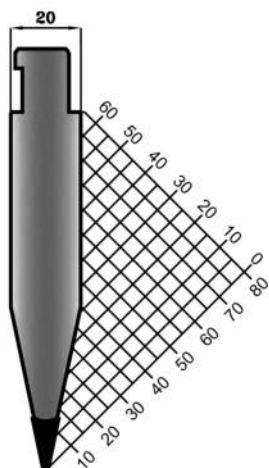
COD	EQV.	α	P	H	MAX Tn/mt
15.109	U-14419	180°	20	82.00	100



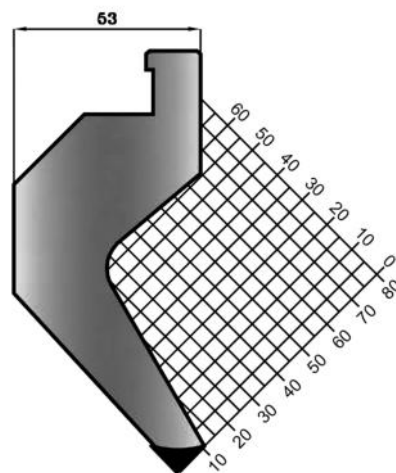
COD	EQV.	α	R	H	MAX Tn/mt
15.110	U-14697	50°	1.00	120.00	100



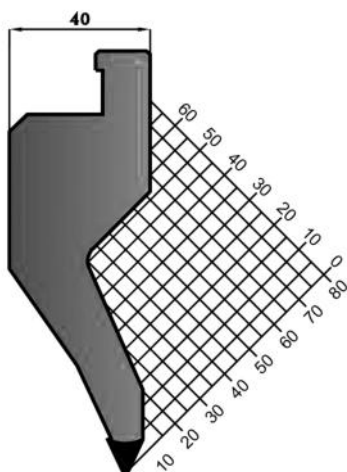
COD	EQV.	α	P	H	MAX Tn/mt
15.111	U-14715	90°	0.80	120.00	80
15.112		88°	0.80	120.00	80
15.113	U-14716	85°	0.70	120.00	80



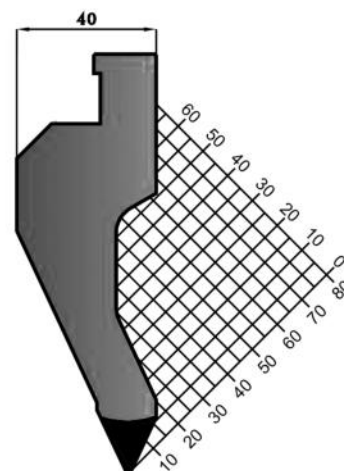
COD	EQV.	α	R	H	MAX Tn/mt
15.114	U-14526	24°	0.60	120.00	100



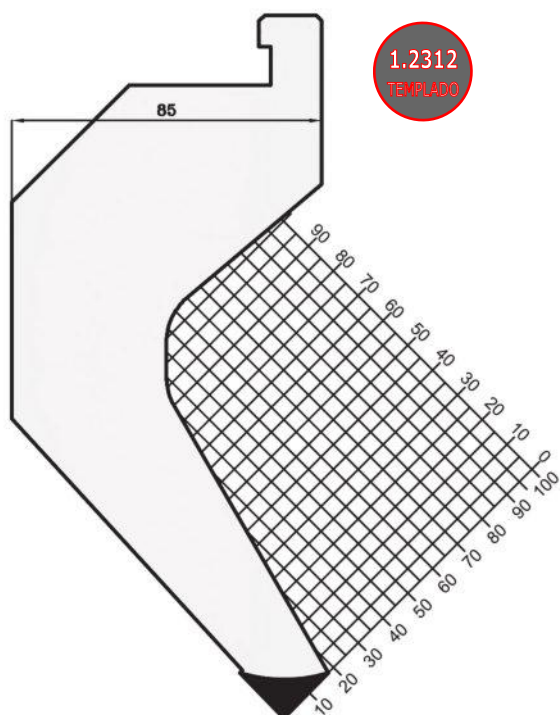
COD	EQV.	α	P	H	MAX Tn/mt
15.115	U-14515	90°	0.80	120.00	80
15.116		88°	0.80	120.00	80
15.117	U-14516	85°	0.70	120.00	80



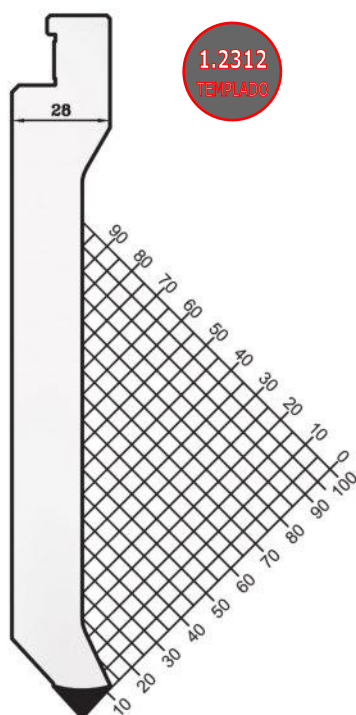
COD	EQV.	α	R	H	MAX Tn/mt
15.118	U-14705	50°	1.00	120.00	80



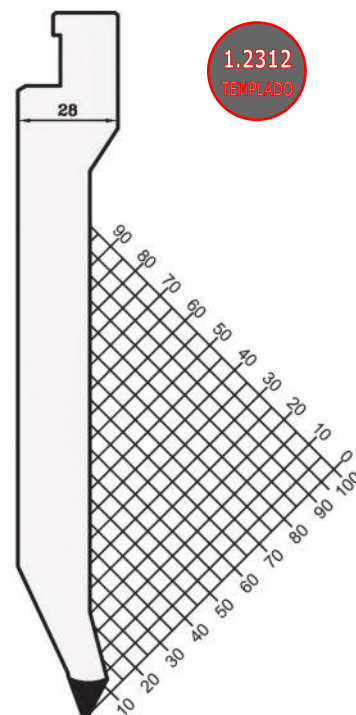
COD	EQV.	α	R	H	MAX Tn/mt
15.119		50°	1.00	120.00	100



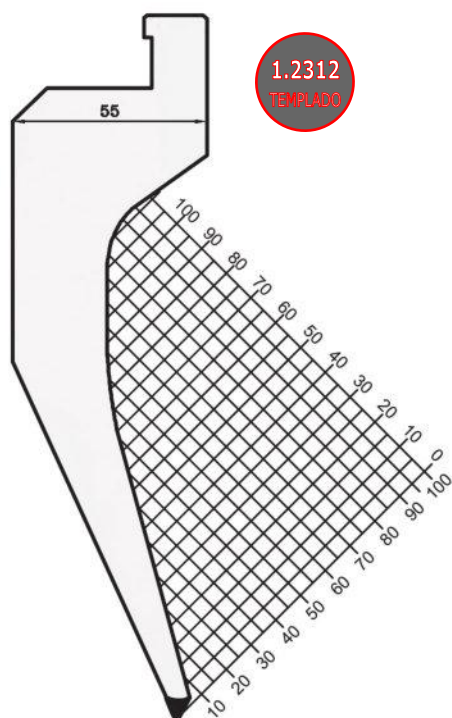
COD	EQV.	α	P	H	MAX Tn/mt
15.120		85°	0.70	200.00	100



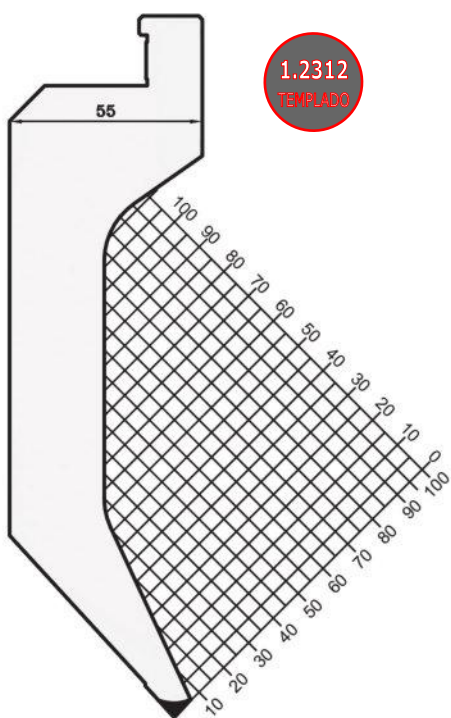
COD	EQV.	α	P	H	MAX Tn/mt
15.121		85°	0.70	200.00	100



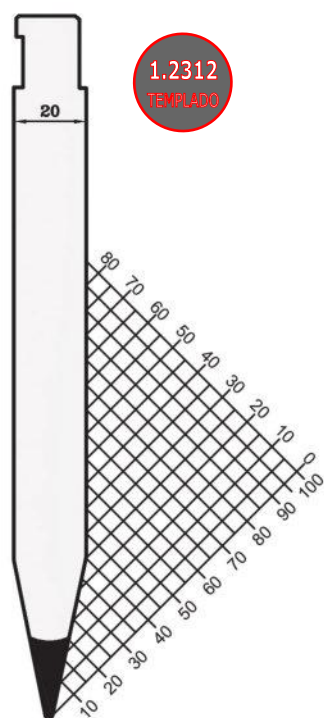
COD	EQV.	α	R	H	MAX Tn/mt
15.122	U-14700	50°	1.00	200.00	100



COD	EQV.	α	R	H	MAX Tn/mt
15.123		50°	1.00	200.00	100



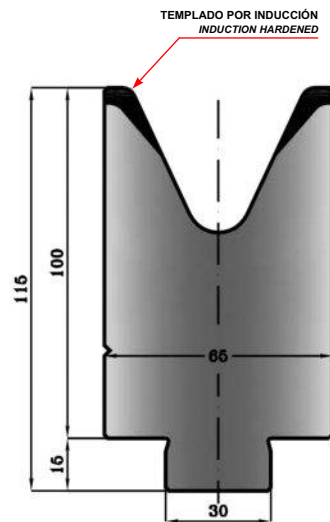
COD	EQV.	α	P	H	MAX Tn/mt
15.124		85°	0.70	200.00	100



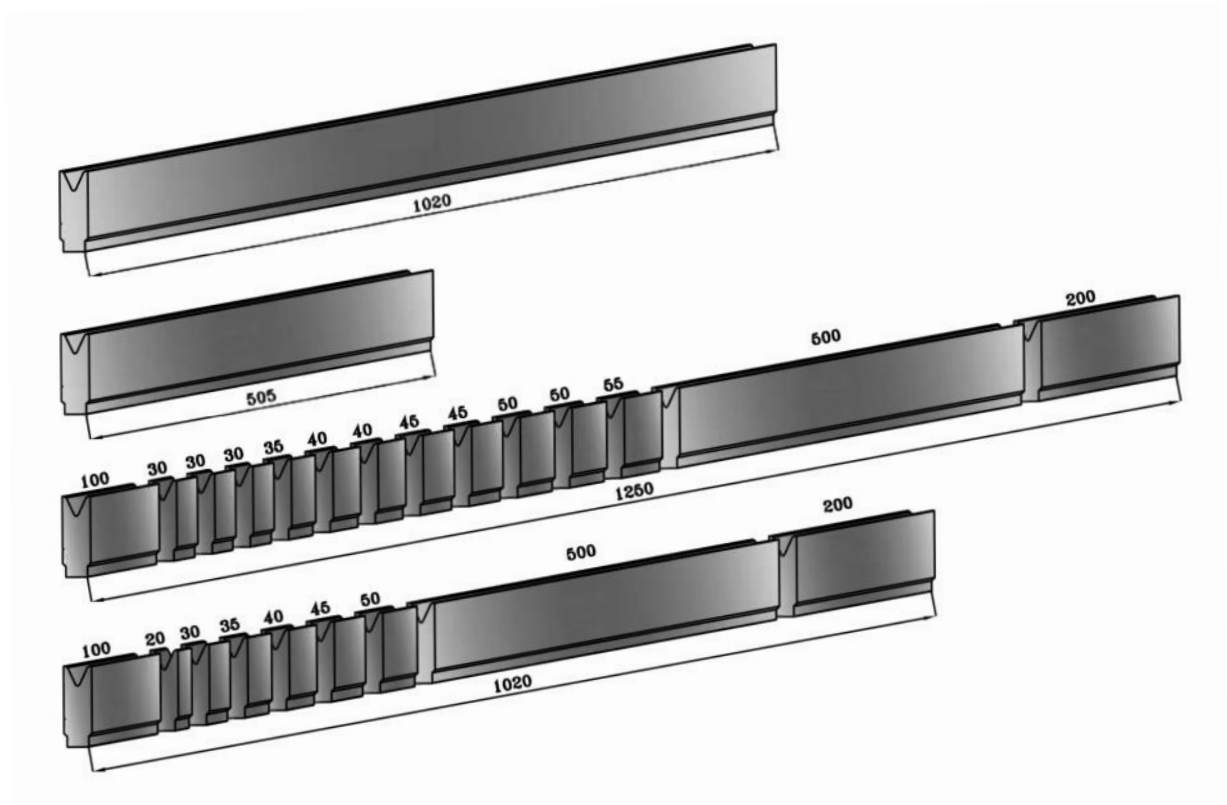
COD	EQV.	α	R	H	MAX Tn/mt
15.125		24°	1.00	200.00	100

MATRICES / DIES

LAS MATRICES ESTÁNDAR ESTAN DISPONIBLES EN LARGOS 1020mm, 505mm Y FRACCIONADO DE 1020mm, 1250mm
STANDARD DIES ARE AVAILABLE LENGTHS IN 1020mm, 505mm AND 1020mm, 1250mm SEGMENTATION

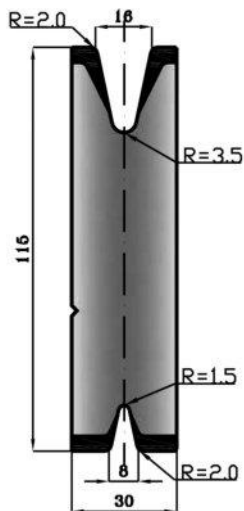


FRACCIONADO ESTÁNDAR STANDARD SEGMENTATION



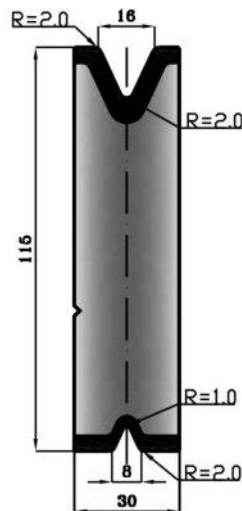
COD 26.100

$\alpha 24^\circ$ | Max. Tn/mt 50



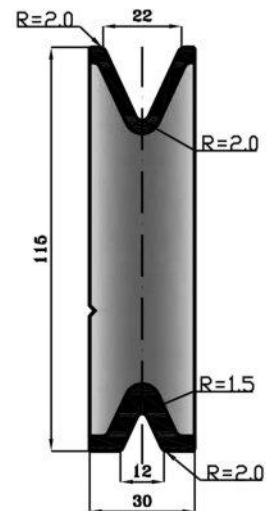
COD 26.101

$\alpha 50^\circ$ | Max. Tn/mt 50



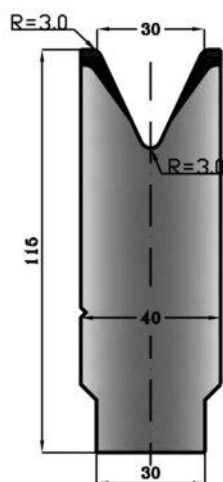
COD 26.102

$\alpha 50^\circ$ | Max. Tn/mt 50



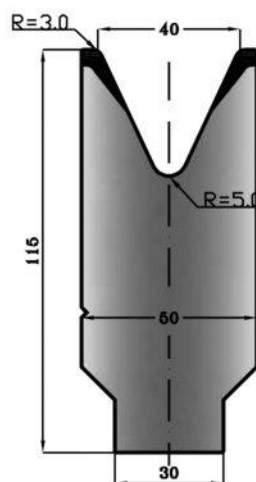
COD 26.103

$\alpha 50^\circ$ | Max. Tn/mt 50



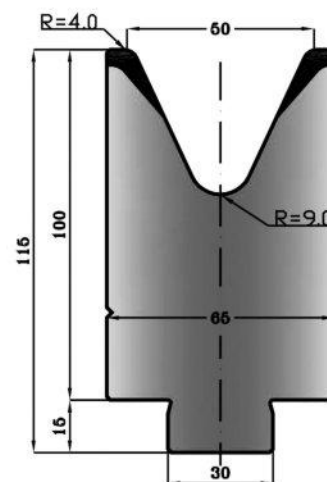
COD 26.104

$\alpha 50^\circ$ | Max. Tn/mt 50



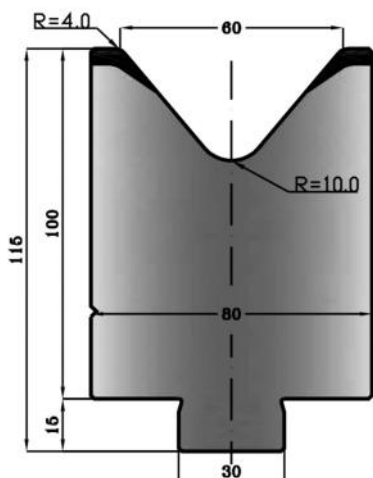
COD 26.105

$\alpha 50^\circ$ | Max. Tn/mt 50



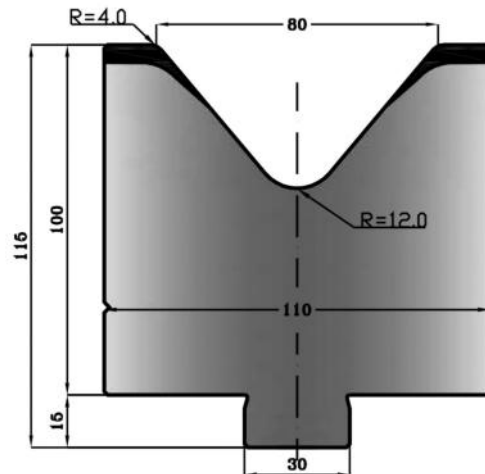
COD 26.106

$\alpha 80^\circ$ | Max. Tn/mt 50



COD 26.107

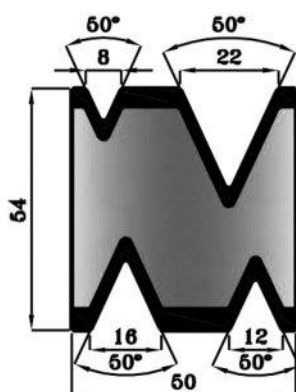
$\alpha 80^\circ$ | Max. Tn/mt 50



COD 26.109

EQV. U-14767

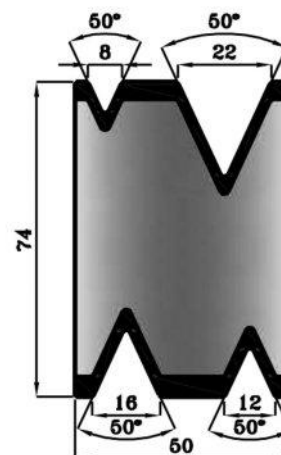
$\alpha 50^\circ$ | Max. Tn/mt 50



COD 26.110

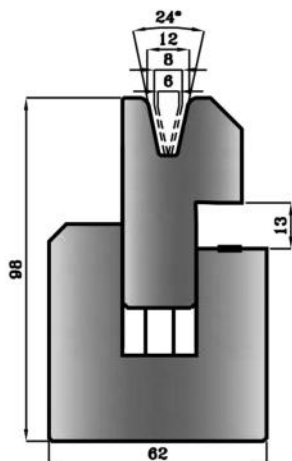
EQV. U-14768

$\alpha 50^\circ$ | Max. Tn/mt 50



COD 26.108

$\alpha 24^\circ$ | Max. Tn/mt 50

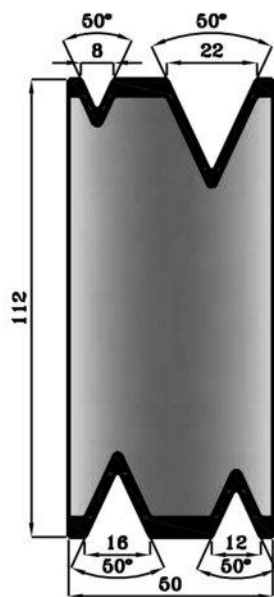


Material ~ 40Kg/mm ²				
S (mm)	Tn/mt	A(mm)	Tn/mt	2S (mm)
0.6	9	3	23	1.2
0.8	12	3	32	1.6
1.0	15	3.5	40	2.0
1.25	17	3.5	50	2.5
1.5	22	4.6	63	3.0
2.0	30	5.5	80	4.0
2.5	55	6.5	90	5.0
3.0	70	8.0	100	6.0

Material ~ 70Kg/mm ²				
S (mm)	Tn/mt	A(mm)	Tn/mt	2S (mm)
0.6	15	3	35	1.2
0.8	20	3	50	1.6
1.0	25	3.5	60	2.0
1.25	26	3.5	80	2.5
1.5	38	4.6	95	3.0
2.0	50	5.5	130	4.0

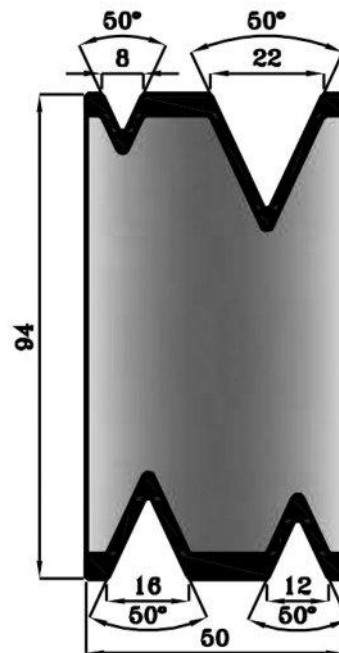
COD 26.112 **EQV. U-14770**

$\alpha 50^\circ$ | Max. Tn/mt 50



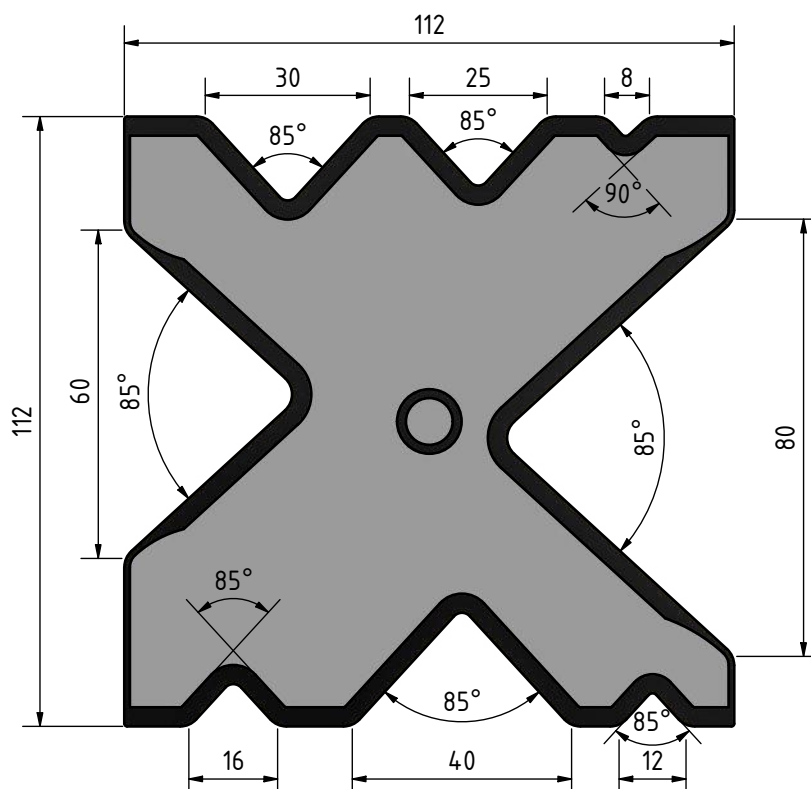
COD 26.111 **EQV. U-14769**

$\alpha 50^\circ$ | Max. Tn/mt 50



COD 26.115 **EQV. U-14518**

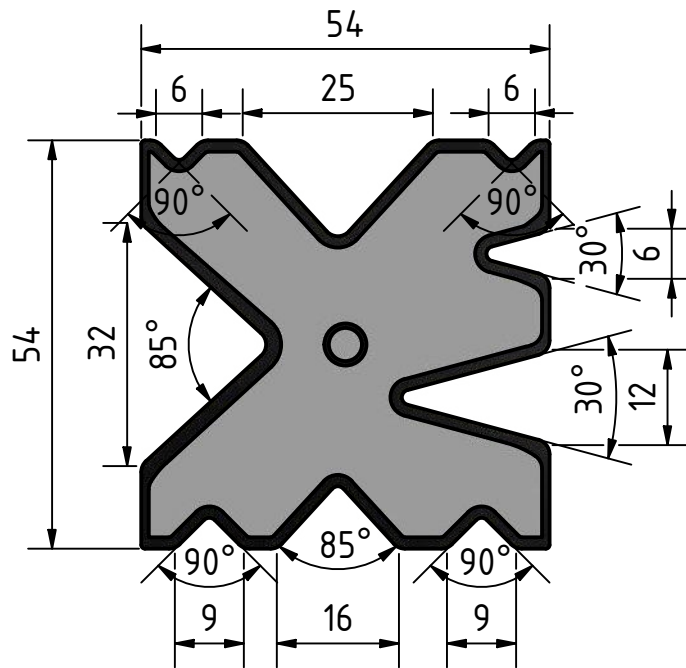
$\alpha 90^\circ \alpha 85^\circ$ | Max. Tn/mt 50



COD 26.113

EQV. U-14319

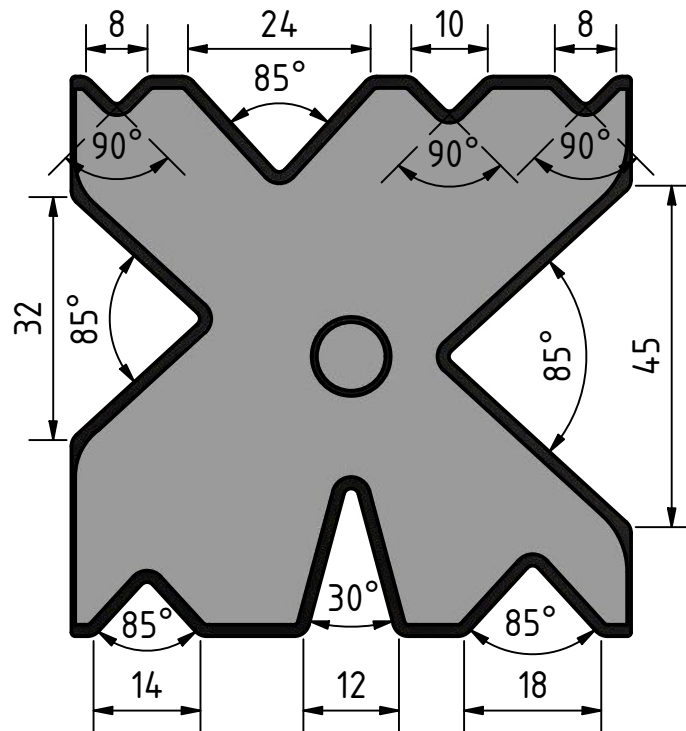
$\alpha 90^\circ \alpha 85^\circ \alpha 30^\circ$ | Max. Tn/mt 50



COD 26.114

EQV. U-14318

$\alpha 90^\circ \alpha 85^\circ \alpha 30^\circ$ | Max. Tn/mt 50



AMADA-PROMECAM

COD 11.500

Max. Tn/mt 100
L=835mm/L=415mm

WILA-TRUMPF

COD 12.420

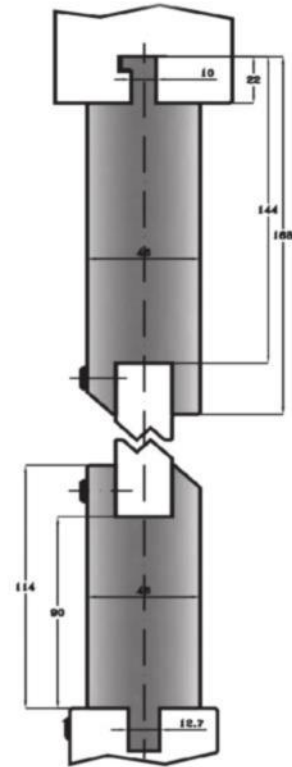
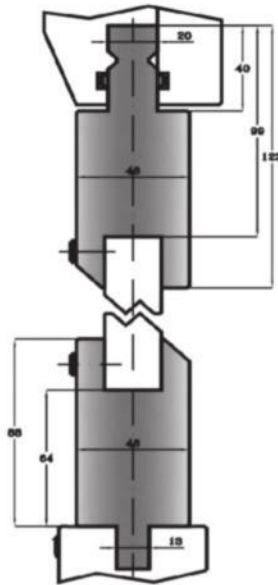
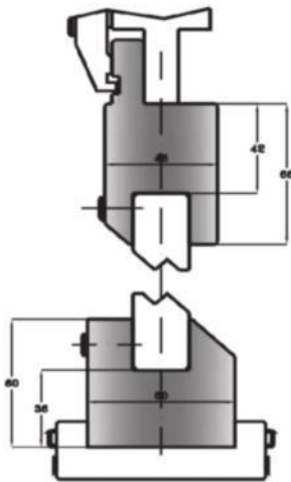
Max. Tn/mt 100
L=835mm/L=415mm

LVD

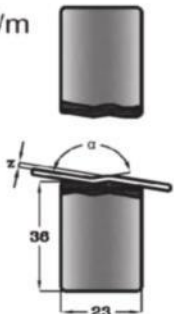
COD 14.106

Max. Tn/mt 100

SOPORTES PARA INSERTOS HERRAMIENTAS Z INSERT Z TOOLS HOLDERS



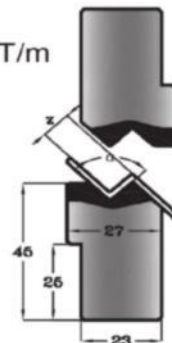
100 T/m



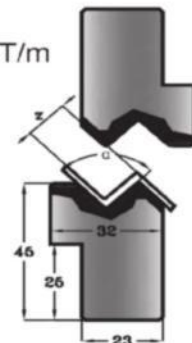
100 T/m



100 T/m



100 T/m



COD 11.300

$\alpha 160^\circ | Z 1.00$

COD 11.310

$\alpha 160^\circ | Z 1.50$

COD 11.320

$\alpha 150^\circ | Z 2.00$

COD 11.330

$\alpha 140^\circ | Z 2.50$

COD 12.760

$\alpha 90^\circ | Z 1.00$

COD 12.770

$\alpha 90^\circ | Z 1.50$

COD 12.740

$\alpha 90^\circ | Z 2.00$

COD 12.750

$\alpha 90^\circ | Z 2.50$

COD 11.340

$\alpha 90^\circ | Z 3.00$

COD 11.350

$\alpha 90^\circ | Z 3.50$

COD 11.360

$\alpha 90^\circ | Z 4.00$

COD 11.370

$\alpha 90^\circ | Z 4.50$

COD 11.380

$\alpha 90^\circ | Z 5.00$

COD 11.390

$\alpha 90^\circ | Z 5.50$

COD 11.400

$\alpha 90^\circ | Z 6.00$

COD 11.410

$\alpha 90^\circ | Z 6.50$

COD 11.420

$\alpha 90^\circ | Z 7.00$

COD 11.430

$\alpha 90^\circ | Z 7.50$

COD 11.440

$\alpha 90^\circ | Z 8.00$

COD 11.450

$\alpha 90^\circ | Z 9.00$

COD 11.460

$\alpha 90^\circ | Z 10.00$

COD 11.470

$\alpha 90^\circ | Z 11.00$

COD 11.480

$\alpha 90^\circ | Z 12.00$

COD 12.780

$\alpha 90^\circ | Z 13.00$

COD 12.790

$\alpha 90^\circ | Z 14.00$

COD 12.800

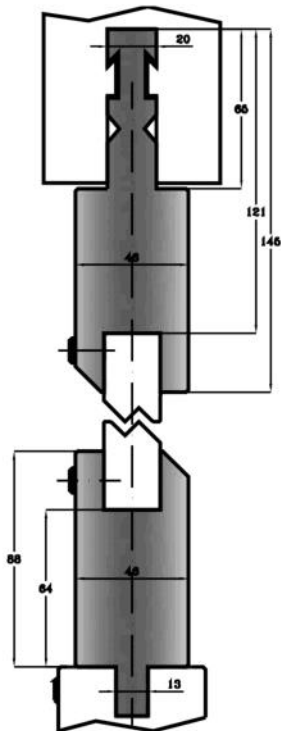
$\alpha 90^\circ | Z 15.00$

SOPORTES PARA INSERTOS HERRAMIENTAS Z INSERT Z TOOLS HOLDERS

BEYELER-RFA

COD 12.998

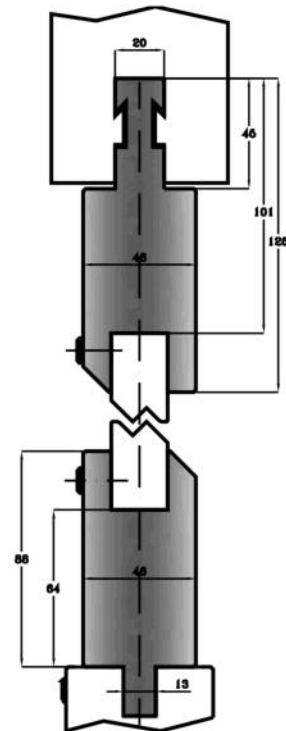
Max. Tn/mt 100
L=835mm/L=415mm



BEYELER-R

COD 11.551

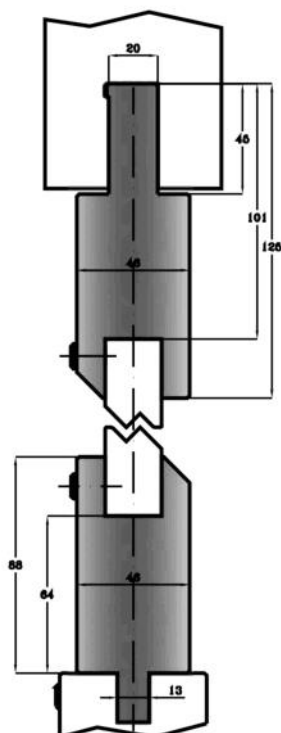
Max. Tn/mt 100
L=835mm/L=415mm



BEYELER-S

COD 11.552

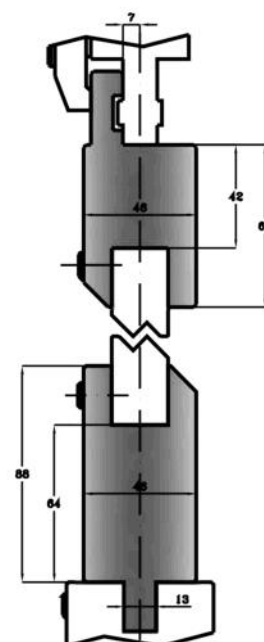
Max. Tn/mt 100
L=835mm/L=415mm



EURO-BEYELER

COD 11.553

Max. Tn/mt 100
L=835mm/L=415mm

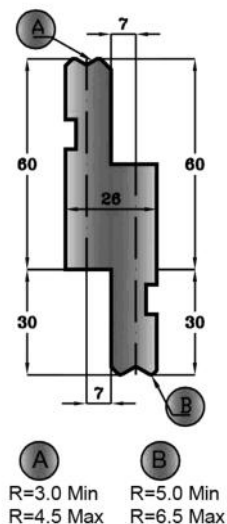


SOPORTES PARA INSERTOS HERRAMIENTAS DE RADIOS INSERT RADIUS TOOLS HOLDERS

AMADA-PROMECAM

COD 11.550

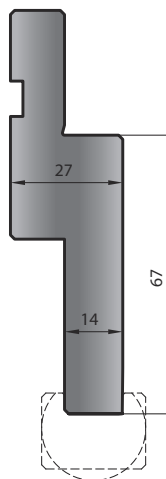
Max. Tn/mt 80
L=830mm/L=410mm



AMADA-PROMECAM

COD 10.360

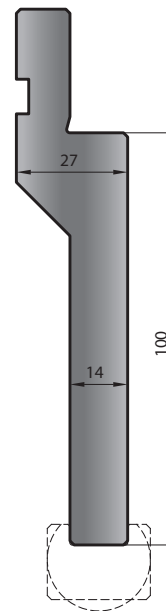
Max. Tn/mt 80
L=830mm/L=410mm



AMADA-PROMECAM

COD 10.960

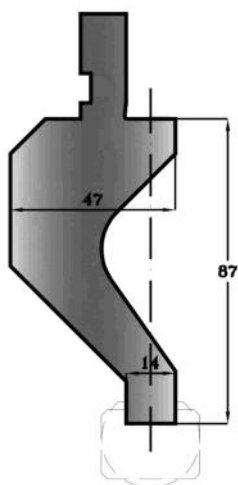
Max. Tn/mt 80
L=830mm/L=410mm



AMADA-PROMECAM

COD 10.910

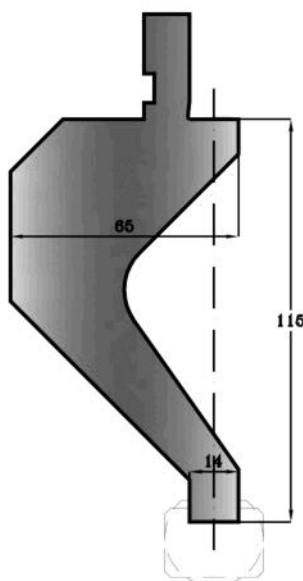
Max. Tn/mt 80
L=830mm/L=410mm



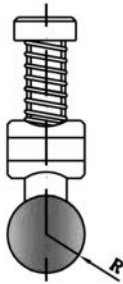
AMADA-PROMECAM

COD 10.900

Max. Tn/mt 80
L=830mm/L=410mm



HERRAMIENTAS DE RADIOS RADIUS TOOLS L=835mm/L=415mm



COD 11.800
R 3.0

COD 11.840
R 5.0

COD 11.810
R 3.5

COD 11.850
R 5.5

COD 11.820
R 4.0

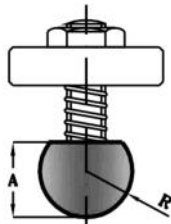
COD 11.860
R 6.0

COD 11.830
R 4.5

COD 11.870
R 6.5



COD 42.750
RECAMBIO
SPARE PART



COD 11.000
R 7.0|A 11.5

COD 10.370
R 10.0|A 16.0

COD 11.010
R 7.5|A 11.5

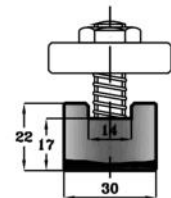
COD 11.040
R 11.0|A 16.0

COD 11.020
R 8.0|A 13.0

COD 11.050
R 11.5|A 16.0

COD 11.030
R 9.0|A 16.0

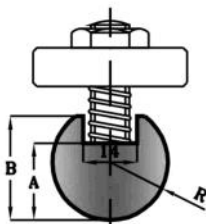
COD 11.060
R 12.0|A 20.0



COD 10.430
INSERTO MACHACADO
FLATTENING TOOL



COD 42.740
RECAMBIO
SPARE PART



COD 11.070
R 12.5|A 16.0|B 21.0

COD 11.110
R 17|A 21.5|B 31.5

COD 10.410
R 25|A 29.0|B 39.0

COD 11.170
R 45|A 50.0|B 60.0

COD 11.080
R 13|A 17.0|B 23.0

COD 10.390
R 17.5|A 22.0|B 32.0

COD 11.140
R 27.5|A 34.0|B 44.0

COD 11.180
R 50|A 54.0|B 64.0

COD 11.090
R 14|A 19.0|B 25.0

COD 11.120
R 19|A 25.0|B 32.0

COD 10.420
R 30|A 34.0|B 44.0

COD 10.380
R 15|A 20.0|B 27.0

COD 10.400
R 20|A 24.0|B 34.0

COD 11.150
R 35|A 45.0|B 55.0

COD 11.100
R 16|A 21.0|B 28.0

COD 11.130
R 22.5|A 25.0|B 33.0

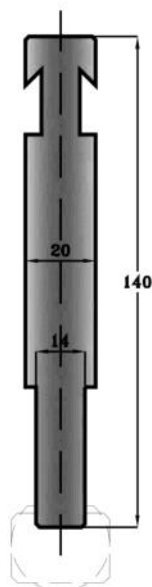
COD 11.160
R 40|A 45.0|B 55.0

SOPORTE E INSERTO RADIO/PLANO RADIUS/PLANE SUPPORT & INSERTS L=830mm/L=410mm

BEYELER-R

COD 12.390

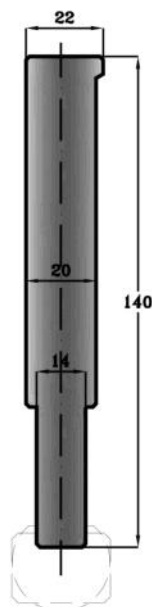
Max. Tn/mt 80



BEYELER-S

COD 12.410

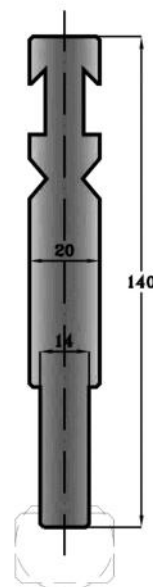
Max. Tn/mt 80



BEYELER-RFA

COD 12.730

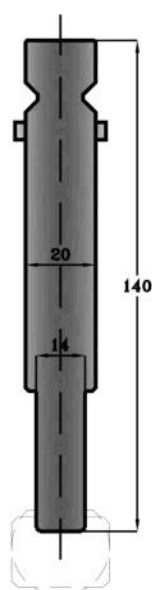
Max. Tn/mt 80



WILA-TRUMPF

COD 12.400

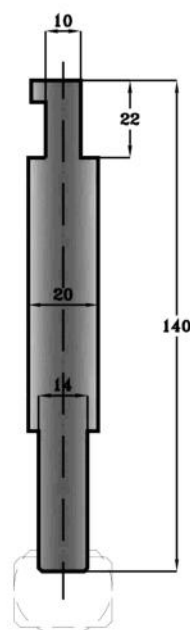
Max. Tn/mt 80



LVD

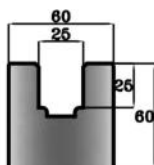
COD 14.105

Max. Tn/mt 80



CONTENEDORES E INSERTOS EN POLIURETANO POLYURETHANE INSERTS & HOLDERS L=835mm/L=415mm

COD 20.360



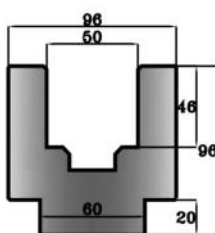
COD 21.010



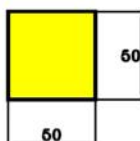
COD 21.050



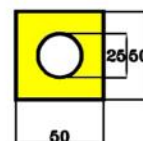
COD 20.370



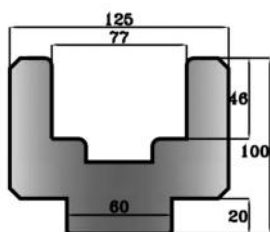
COD 21.020



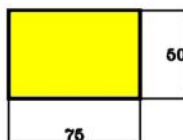
COD 21.060



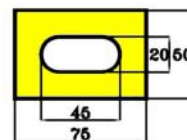
COD 20.380



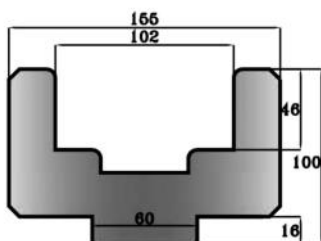
COD 21.030



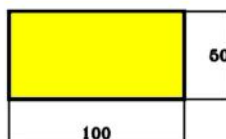
COD 21.070



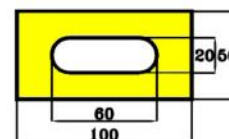
COD 20.400



COD 21.040



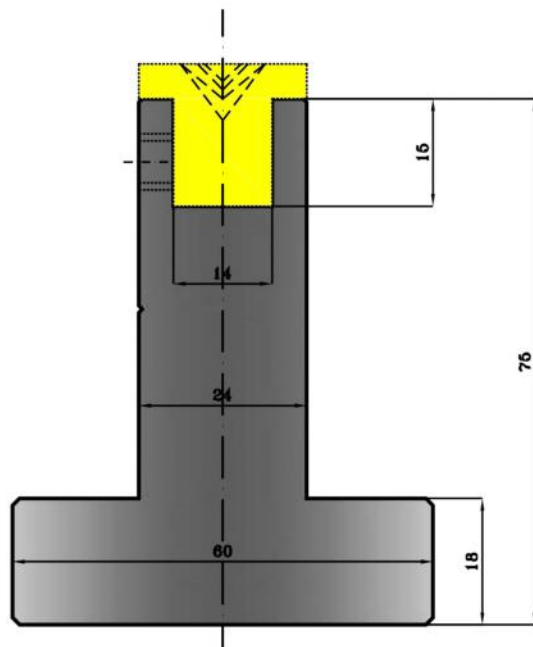
COD 21.080



CONTENEDORES PARA INSERTOS EN NYLON NYLON HOLDERS L=835mm/L=415mm

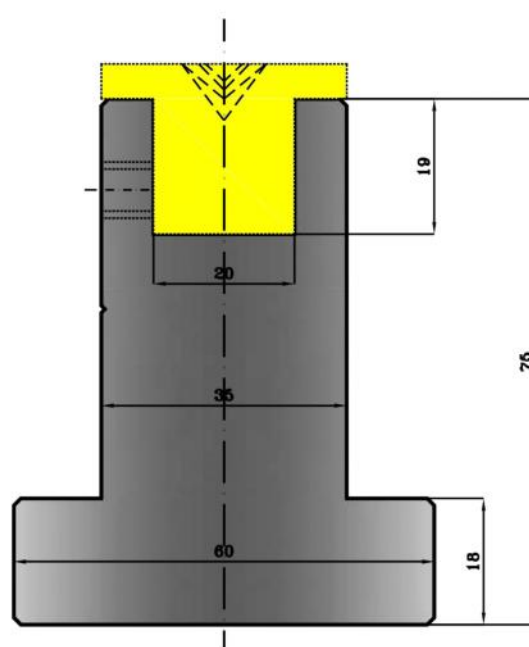
COD 21.090

Max. Tn/mt 100



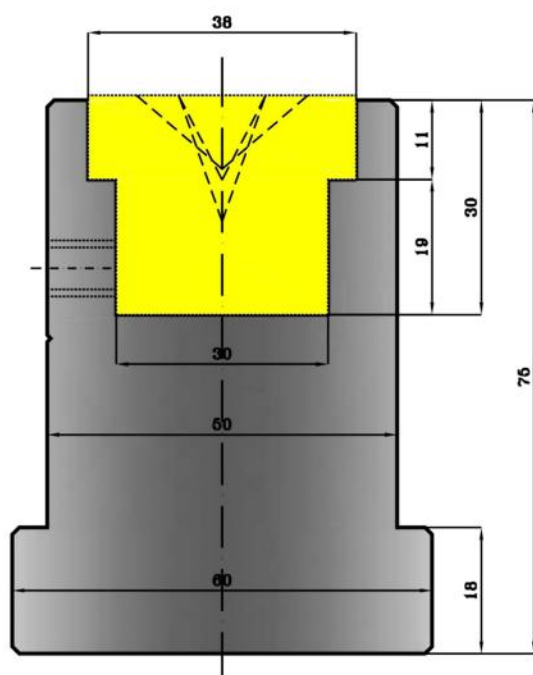
COD 21.100

Max. Tn/mt 100



COD 21.110

Max. Tn/mt 100

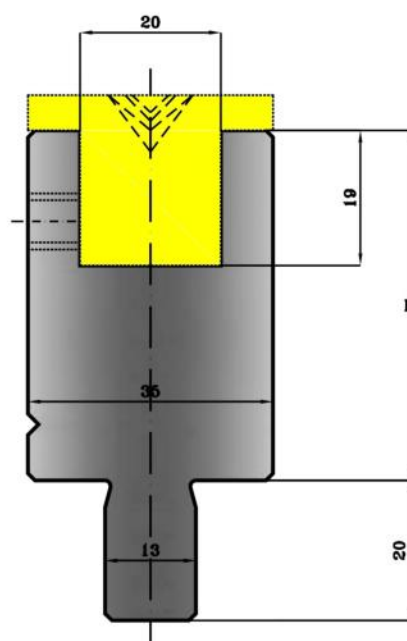


COD 21.150

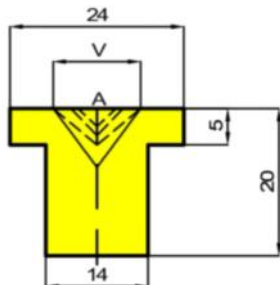
H 50 | Max. Tn/mt 100

COD 21.160

H 95 | Max. Tn/mt 100



INSERTOS INTERCAMBIABLES EN NYLON NYLON INSERTS



COD 21.120			
A	V		
88°	6	8	10
60°	6	8	10
45°	6	8	10
30°	6	8	

Max. Tn/mt 20

COD 43.080

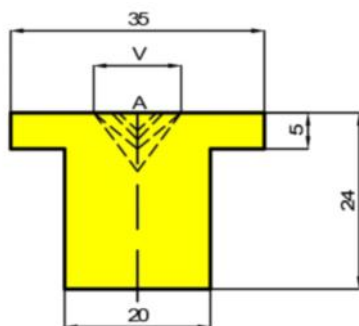
ESPEJOR/THICKNESS 0.5 mm.
ANCHO/WIDTH 100 mm.
LARGO/LEGTH 30 mts.

COD 43.140

ESPEJOR/THICKNESS 0.8 mm.
ANCHO/WIDTH 100 mm.
LARGO/LEGTH 30 mts.



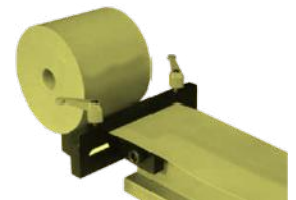
PELÍCULA DE POLIURETANO ANTI ARAÑAZOS/
POLYURETHANE FILM SCRATCH PROTECCION



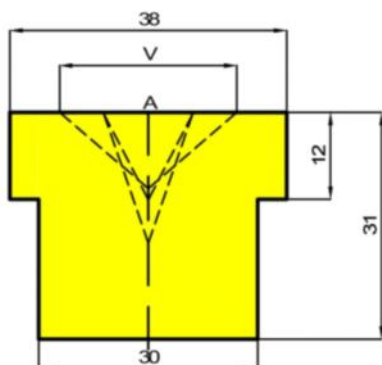
COD 21.130					
A	V				
88°	6	8	10	12	16
60°	6	8	10	12	16
45°	6	8	10	12	
30°	6	8	10		

Max. Tn/mt 20

COD 43.090



TENSOR DE POLIURETANO/
POLYURETHANE TENSIONER



COD 21.140							
A	V						
88°	6	8	10	12	16	20	25
60°	6	8	10	12	16	20	
45°	6	8	10	12	16	20	
30°	6	8	10	12	16		

Max. Tn/mt 20



**ARMARIOS DE HERRAMIENTAS
BAJO PEDIDO, PARA TODO TIPO
DE SISTEMAS**

***TOOLING CABINET ON DEMAND
FOR ALL SYSTEMS***

**ACCESORIOS DE ARMARIOS
*CABINET ACCESSORIES***



BLOQUEO RÁPIDO

SISTEMA DE CAMBIO RÁPIDO ÚTILES SUPERIORES
QUICK CHANGE SYSTEM FOR UPPER TOOLS



CARACTERÍSTICAS PRINCIPALES

- No es necesaria ninguna modificación de la herramienta estándar
- Inserción y extracción frontal de la herramienta
- Sujeción y elevación automática de las herramientas
- Gran ahorro de tiempo comparado con el bloqueo manual con tornillos
- Cumple con todas las normas de seguridad CE

MAIN FEATURES

- No modification to the standard tool
- Tool frontal insertion/removal
- Automatic tool clamping & lifting
- Huge time saving compared to screw manual clamping
- It meets all CE safety norms



INSERCIÓN FRONTAL
FRONTAL INSERTION



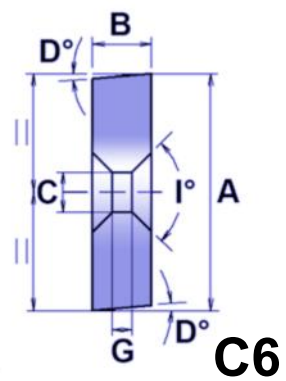
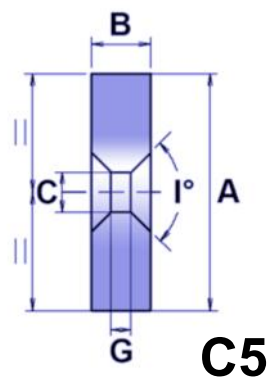
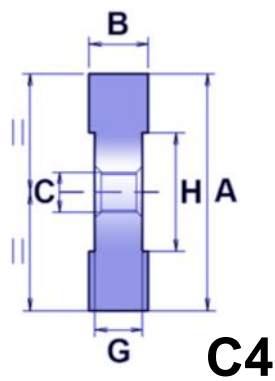
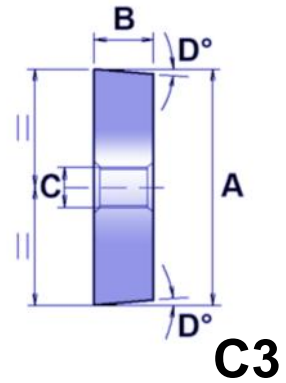
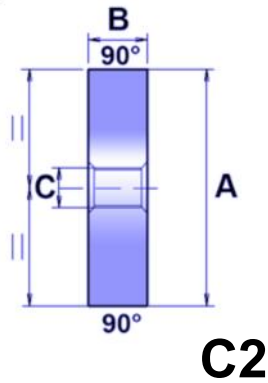
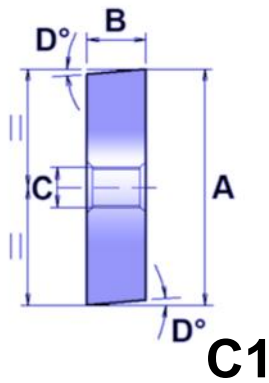
ELEVACIÓN Y ANCLAMIENTO AUTOMÁTICO
AUTOMATIC LIFTING & HOUSING



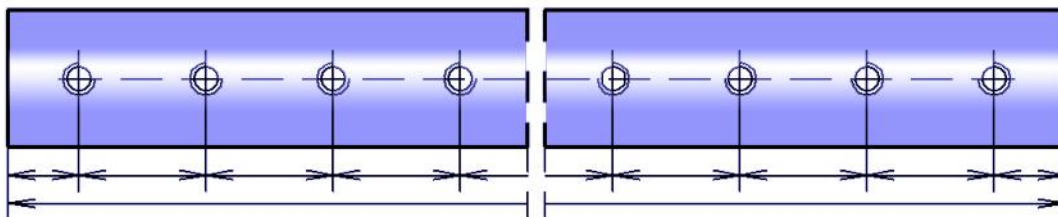
FÁCIL EXTRACCIÓN FRONTAL
EASY FRONTAL EJECTION

CUCHILLAS CIZALLA SHEAR BLADES

TIPO DE SECCIÓN DE CORTE
SHEAR SECTION TYPE



PUNTOS DE ANCLAJE
ANCHOR POINTS





Solutions for Metalworking

WWW.TCPUNZONES.COM

AMADA PROMECAM[®] system

WILA TRUMPF[®] system

BEYELER[®] system

LVD WILA[®] system

COLLY[®] AJIAL[®] AXIAL[®] system

ACCESORIOS

Tlf. +34 934 228 023

info@tcpunzones.com

