

AGT
ELETROMECAÂNICA

Fornecedor autorizado:



PUNÇÃO

Punções produzidos em AÇO 42CrMo₄ ou AÇO SAE1045 com tratamento térmico de alívio de tensão e têmpera por indução com dureza de 52/58 HRC.



Fixação Europeia

Punções convencionais (PCE), Punções angulares (PAE), Punções retos (PRE) e Punções especiais (PEE).



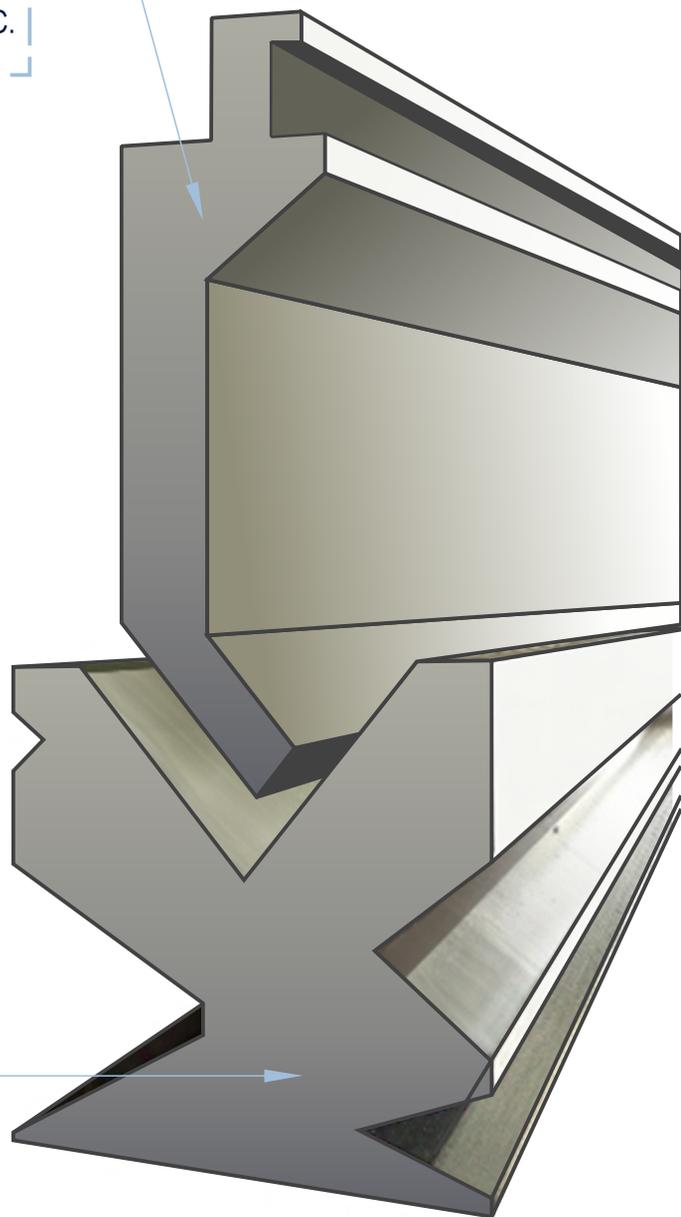
Fixação Americana(Newton)

Punções convencionais (PCA), Punções angulares (PAA), Punções retos (PRA) e Punções especiais (PEA).



Fixação Trumpf

Punções angulares (PAA) e Punções retos (PRA).



MATRIZ DE DOBRA

Matrizes produzidas em AÇO 42CrMo₄ ou AÇO SAE1045 com tratamento térmico de alívio de tensão e têmpera por indução com dureza de 52/58 HRC.



Sistema Europeu

ME-3050-M, ME-3050-T e ME-3050-V.



Sistema Americano(Newton)

MA-3050-M.



Sistema Amada

ME-3050-M, ME-3050-T e ME-3050-V.
MTB120-3050.



Sistema Trumpf

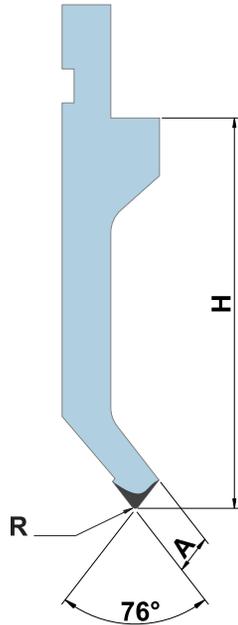
MTB120-3050.

PUNÇÕES CONVENCIONAIS

PCE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
105	8,0	0,8	PCE-76-8,0-105
130	10,0	0,8	PCE-76-10,0-130
145	12,0	0,8	PCE-76-12,0-145

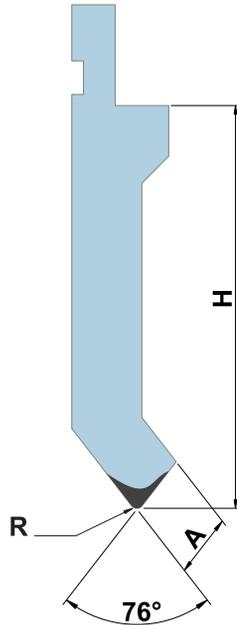


Cr:80 ton./m

PCE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
105	13,0	1,0	PCE-76-13,0-105
130	15,0	2,0	PCE-76-15,0-130
145	20,0	2,0	PCE-76-20,0-145

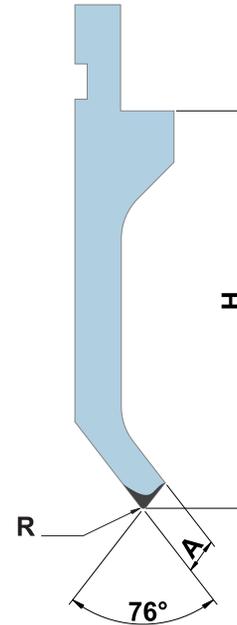


Cr:120 ton./m

PCE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
105	6,0	0,5	PCE-76-6,0-105
130	8,0	0,8	PCE-76-8,0-130
145	10,0	0,8	PCE-76-10,0-145

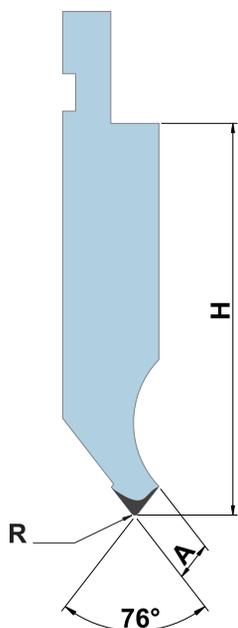


Cr:50 ton./m

PCE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
105	8,0	0,8	PCE-76-8,0-105
145	9,0	0,8	PCE-76-9,0-145
145	10,0	0,8	PCE-76-10,0-145

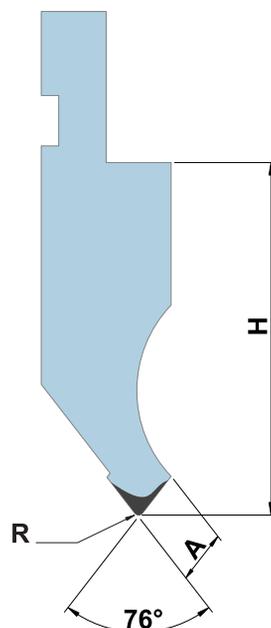


Cr:100 ton./m

PCE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
67,6	8,0	0,8	PCE-76-8,0-67,6
105	9,0	0,8	PCE-76-9,0-105
105	10,0	0,8	PCE-76-10,0-105

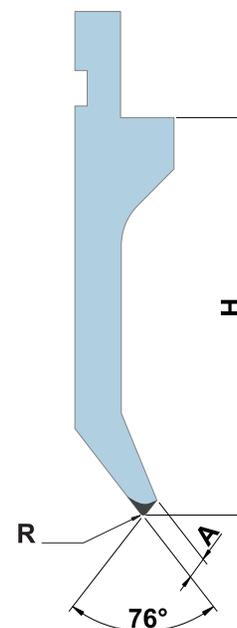


Cr:100 ton./m

PCE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
105	5,0	0,5	PCE-76-5,0-105
130	7,0	0,8	PCE-76-7,0-130
145	9,0	0,8	PCE-76-9,0-145



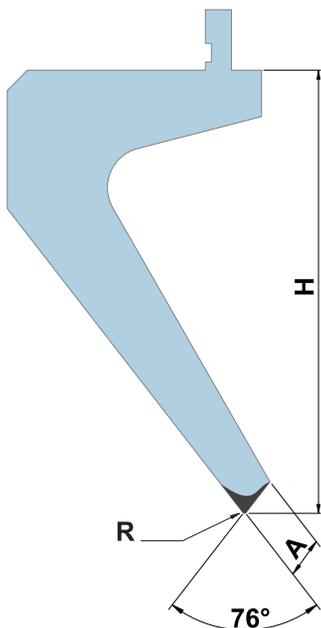
Cr:50 ton./m

PUNÇÕES ANGULARES

PAE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
115	12,7	1,0	PAE-76-12,7-115
145	13,5	1,5	PAE-76-13,5-145
175	15,0	1,5	PAE-76-15,0-175

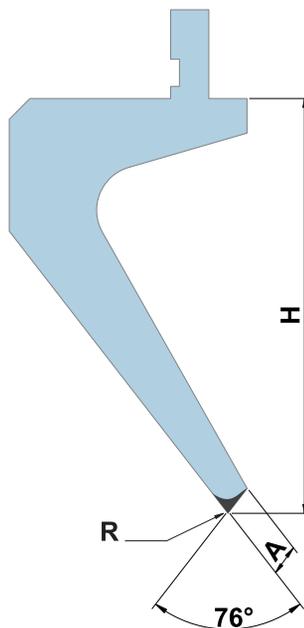


Cr:100 ton./m

PAE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
115	8,0	0,8	PAE-76-8,0-115
145	9,5	0,8	PAE-76-9,5-145
175	10,5	0,8	PAE-76-10,5-175

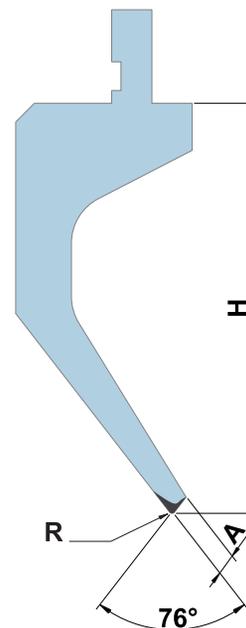


Cr:80 ton./m

PAE-76-A-H-3050

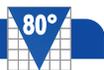


H (mm)	A (mm)	R (mm)	MODELO
115	5,0	0,6	PAE-76-5,0-115
145	6,5	0,6	PAE-76-6,5-145
175	7,5	0,6	PAE-76-7,5-175

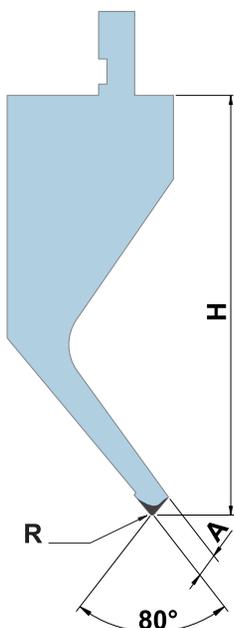


Cr:45 ton./m

PAE-80-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
115	5,0	0,5	PAE-80-5,0-115
145	7,5	0,8	PAE-80-7,5-145
175	8,5	0,8	PAE-80-8,5-175

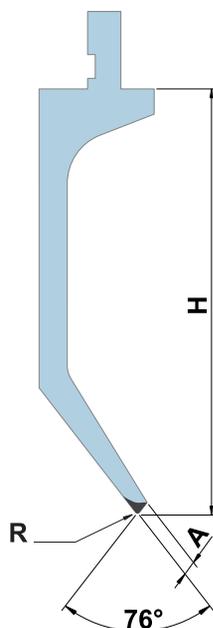


Cr:30 ton./m

PAE-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
115	6,0	0,5	PAE-76-6,0-115
145	8,0	0,8	PAE-76-8,0-145
175	10,0	0,8	PAE-76-10,0-175

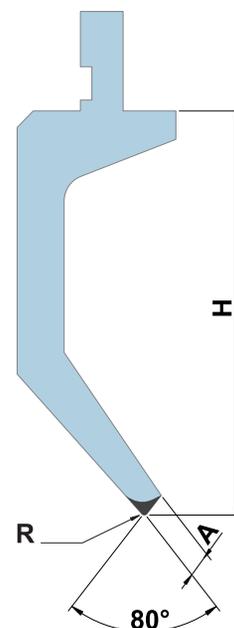


Cr:40 ton./m

PAE-80-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
115	8,0	0,8	PAE-80-8,0-115
145	10,0	0,8	PAE-80-10,0-145
175	12,0	1,5	PAE-80-12,0-175



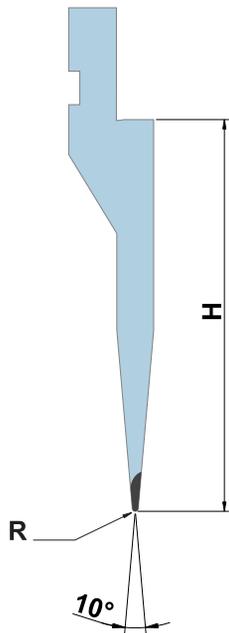
Cr:60 ton./m

PUNÇÕES RETOS

PRE-10-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
104	-	0,5	PRE-10-0,5-104
117	-	0,8	PRE-10-0,8-117
135	-	1,5	PRE-10-1,5-135

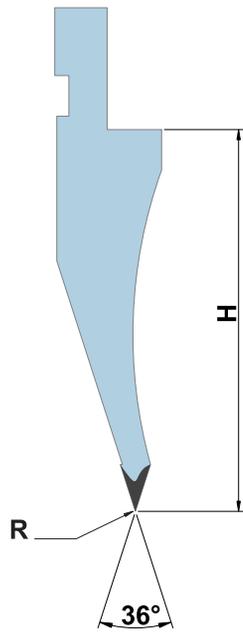


Cr:70 ton./m

PRE-36-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
86	-	0,8	PRE-36-0,8-86
104	-	0,8	PRE-36-0,8-104
117	-	0,8	PRE-36-0,8-117

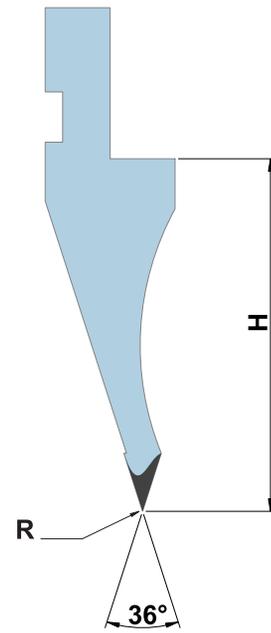


Cr:80 ton./m

PRE-36-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
65	-	0,5	PRE-36-0,5-65
86	-	0,8	PRE-36-0,8-86
100	-	1,5	PRE-36-1,5-100

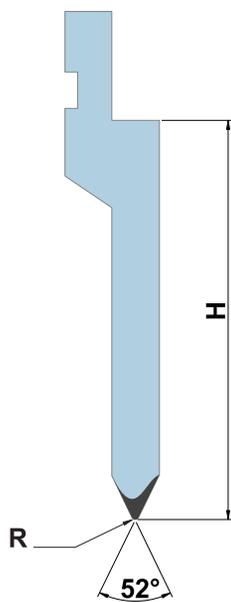


Cr:80 ton./m

PRE-52-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
85	-	0,8	PRE-52-0,8-85
117	-	0,8	PRE-52-0,8-117
145	-	1,5	PRE-52-1,5-145

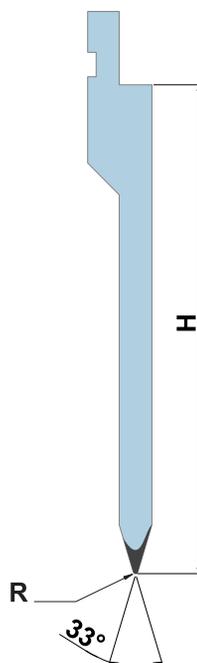


Cr:100 ton./m

PRE-33-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
145	-	1,0	PRE-33-1,0-145
175	-	1,0	PRE-33-1,0-175
200	-	1,0	PRE-33-1,0-200

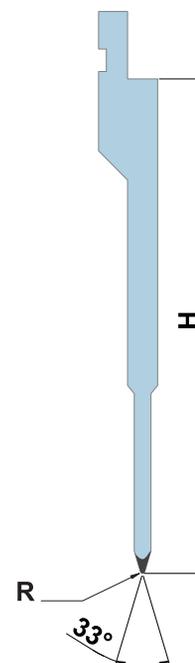


Cr:80 ton./m

PRE-33-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
145	-	0,8	PRE-33-0,8-145
175	-	0,8	PRE-33-0,8-175
220	-	1,0	PRE-33-1,0-220



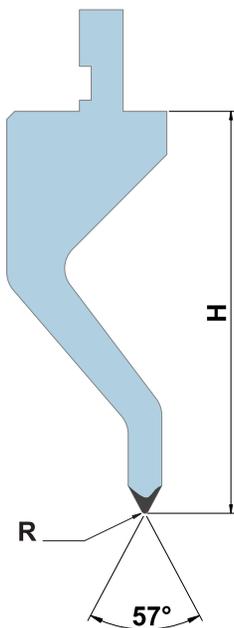
Cr:50 ton./m

PUNÇÕES ESPECIAIS

PEE-57-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	-	1,0	PEE-57-1,0-130
140	-	1,5	PEE-57-1,5-140
150	-	2,0	PEE-57-2,0-150

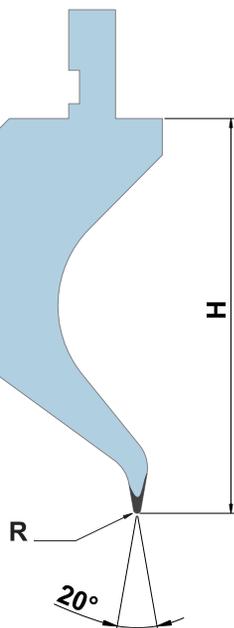


Cr:80 ton./m

PEE-20-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	-	0,5	PEE-20-0,5-130
140	-	0,8	PEE-20-0,8-140
150	-	1,0	PEE-20-1,0-150

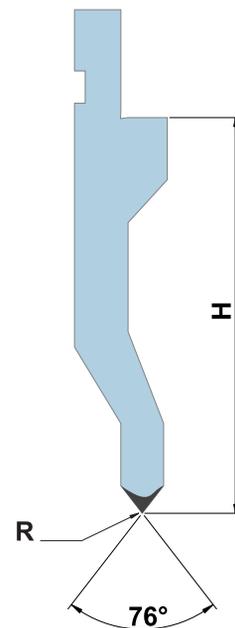


Cr:45 ton./m

PEE-76-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	-	1,0	PEE-76-1,0-130
150	-	1,0	PEE-76-1,0-150
175	-	1,5	PEE-76-1,5-175

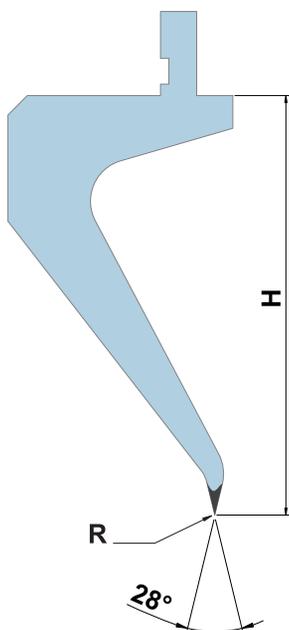


Cr:100 ton./m

PEE-28-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
115	-	0,5	PEE-28-0,5-115
145	-	0,8	PEE-28-0,8-145
175	-	1,0	PEE-28-1,0-175

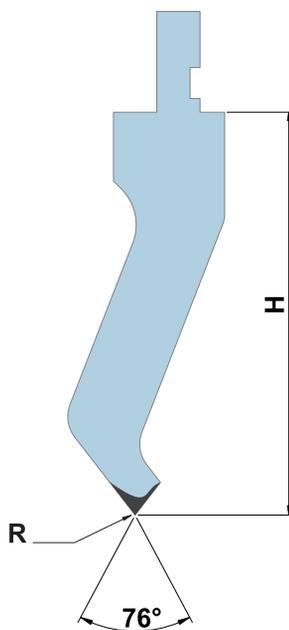


Cr:50 ton./m

PEE-76-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
105	-	1,0	PEE-76-1,0-105
115	-	1,5	PEE-76-1,5-115
145	-	2,0	PEE-76-2,0-145

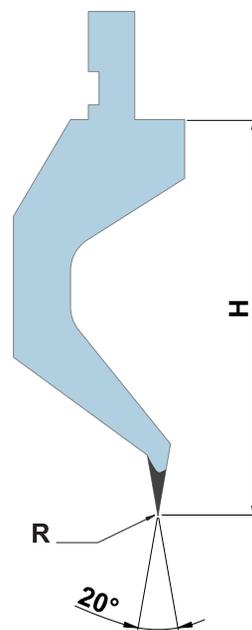


Cr:100 ton./m

PEE-20-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
115	-	0,5	PEE-20-0,5-115
145	-	0,8	PEE-20-0,8-145
160	-	1,0	PEE-20-1,0-160



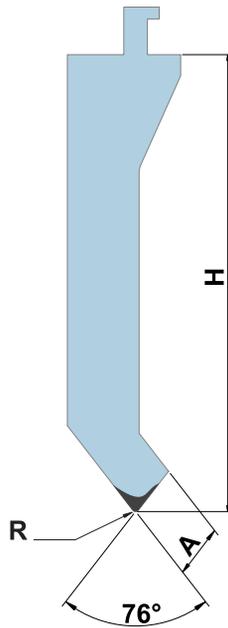
Cr:35 ton./m

PUNÇÕES CONVENCIONAIS

PCN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	15,0	1,5	PCN-76-15,0-130
140	18,0	2,0	PCN-76-18,0-140
150	20,0	2,0	PCN-76-20,0-150

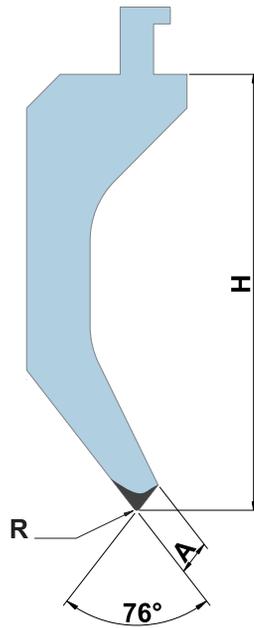


Cr:200 ton./m

PCN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	10,0	1,0	PCN-76-10,0-130
140	12,0	1,5	PCN-76-12,0-140
150	14,0	1,5	PCN-76-14,0-150

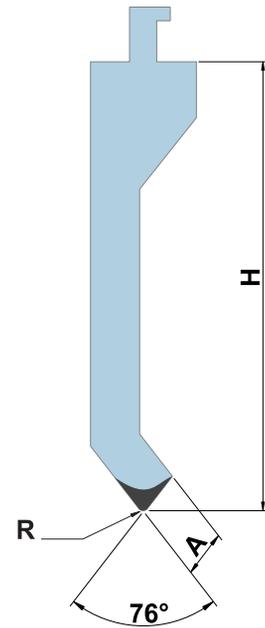


Cr:100 ton./m

PCN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	10,0	1,0	PCN-76-10,0-130
140	12,0	1,5	PCN-76-12,0-140
150	14,0	1,5	PCN-76-14,0-150

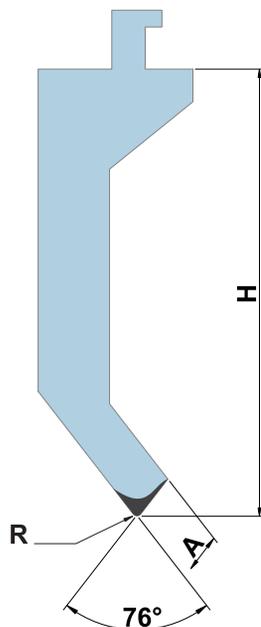


Cr:100 ton./m

PCN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	8,0	0,8	PCN-76-8,0-130
140	10,0	0,8	PCN-76-10,0-140
150	12,0	1,0	PCN-76-12,0-150

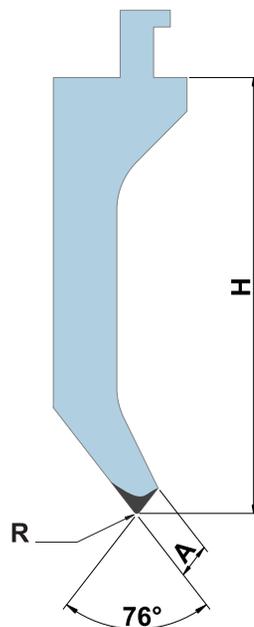


Cr:100 ton./m

PCN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	6,0	0,8	PCN-76-6,0-130
140	8,0	0,8	PCN-76-8,0-140
150	10,0	0,8	PCN-76-10,0-150

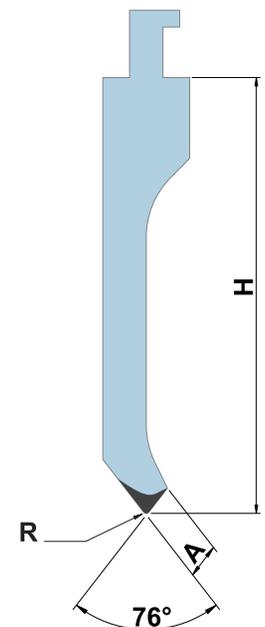


Cr:80 ton./m

PCN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	6,0	0,8	PCN-76-6,0-130
140	8,0	0,8	PCN-76-8,0-140
150	10,0	0,8	PCN-76-10,0-150



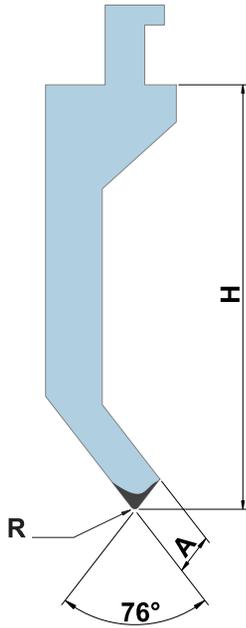
Cr:80 ton./m

PUNÇÕES CONVENCIONAIS

PCN-76-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	8,0	0,8	PCN-76-8,0-100
130	10,0	0,8	PCN-76-10,0-130
150	12,0	1,0	PCN-76-12,0-150

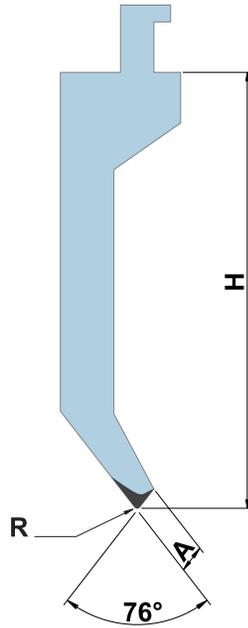


Cr:100 ton./m

PCN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	6,0	0,5	PCN-76-6,0-100
130	8,0	0,8	PCN-76-8,0-130
150	10,0	0,8	PCN-76-10,0-150

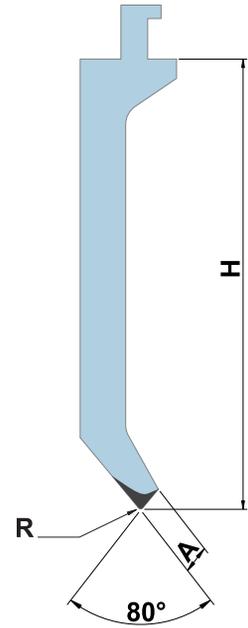


Cr:60 ton./m

PCN-80-A-H-3050



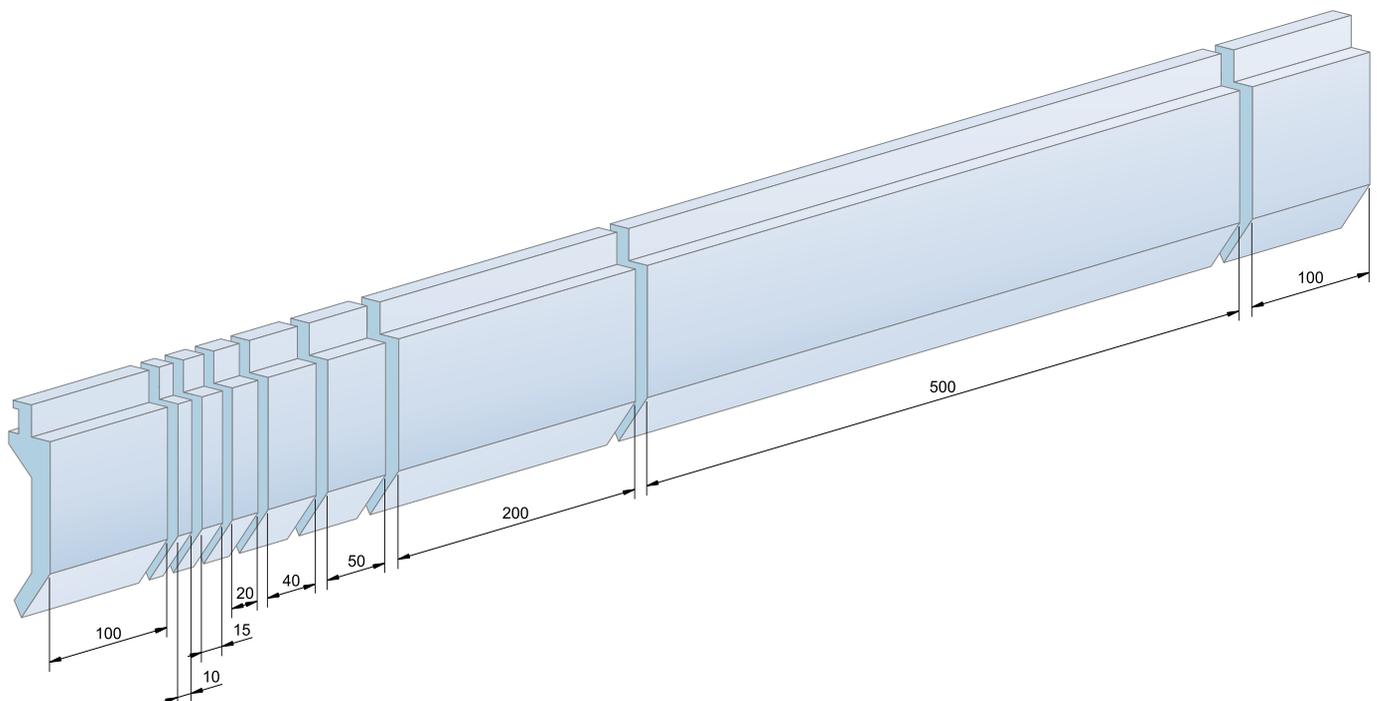
H (mm)	A (mm)	R (mm)	MODELO
100	5,0	0,5	PCN-80-5,0-100
130	7,0	0,5	PCN-80-7,0-130
150	8,5	0,8	PCN-80-8,5-150



Cr:45 ton./m

FIXAÇÃO AMERICANA

SUGESTÃO PARA SECCIONAMENTO DE PUNÇÕES

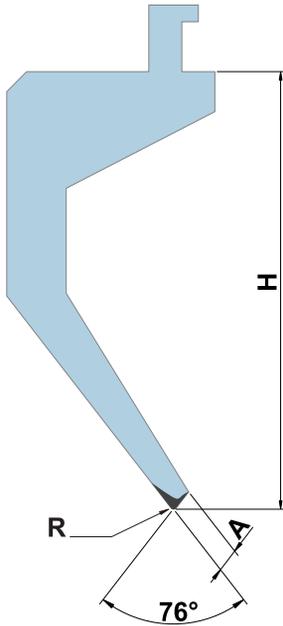


PUNÇÕES ANGULARES

PAN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	6,5	0,5	PAN-76-6,5-10
130	8,0	0,8	PAN-76-8,0-130
150	10,0	0,8	PAN-76-10,0-150

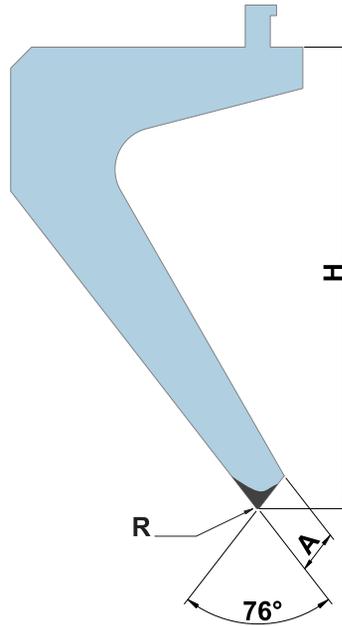


Cr:60 ton./m

PAN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	10,0	0,8	PAN-76-10,0-100
130	12,0	1,5	PAN-76-12,0-130
150	14,0	2,0	PAN-76-14,0-150

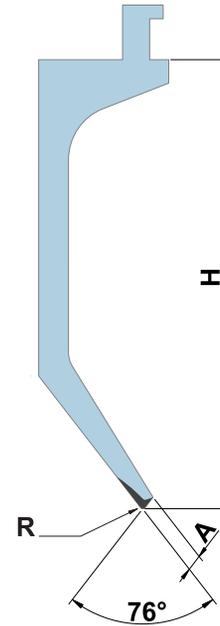


Cr:100 ton./m

PAN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	4,5	0,5	PAN-76-4,5-100
130	6,0	0,5	PAN-76-6,0-130
150	8,0	0,8	PAN-76-8,0-150

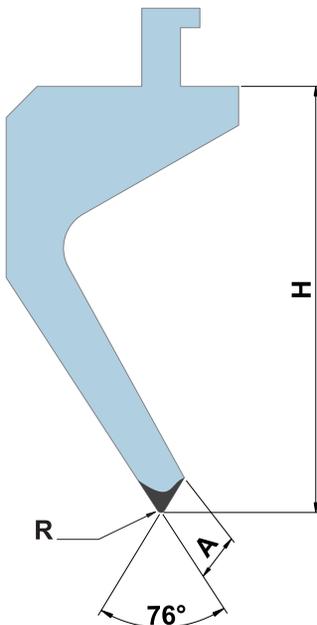


Cr:45 ton./m

PAN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	10,0	0,8	PAN-76-10,0-100
130	11,5	1,5	PAN-76-11,5-130
150	13,0	2,0	PAN-76-13,0-150

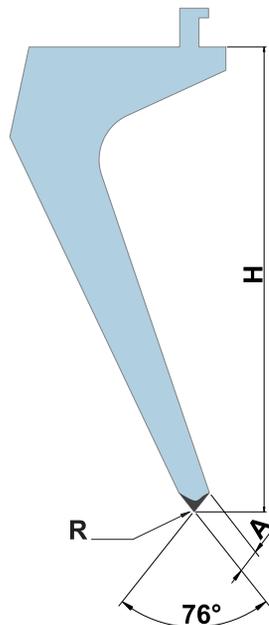


Cr:80 ton./m

PAN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
180	10,0	1,0	PAN-76-10,0-180
200	12,0	1,0	PAN-76-12,0-200
240	13,0	2,0	PAN-76-13,0-240

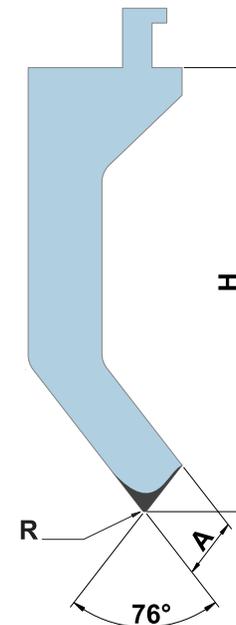


Cr:120 ton./m

PAN-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	18,0	2,0	PAN-76-18,0-100
130	22,0	2,0	PAN-76-22,0-130
150	25,0	3,0	PAN-76-25,0-150



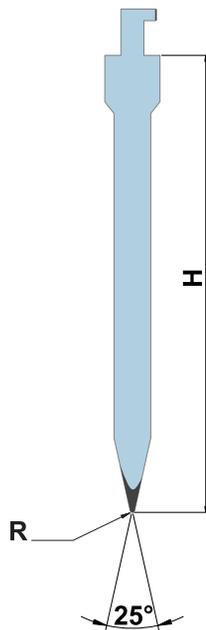
Cr:250 ton./m

PUNÇÕES RETOS

PRN-25-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
150	-	0,8	PRN-25-0,8-150
170	-	1,0	PRN-25-1,0-170
200	-	2,0	PRN-25-2,0-200

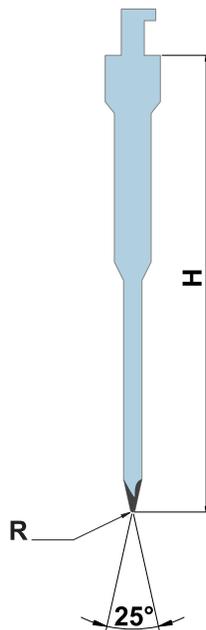


Cr:120 ton./m

PRN-25-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
170	-	0,8	PRN-25-0,8-170
200	-	0,8	PRN-25-0,8-200
220	-	0,8	PRN-25-0,8-220

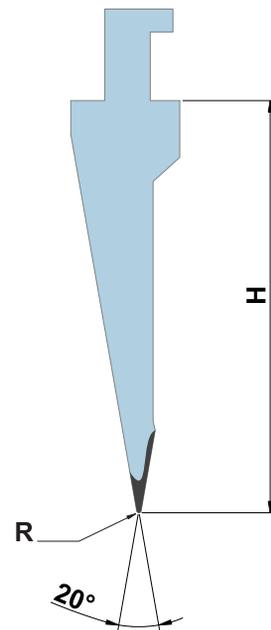


Cr:80 ton./m

PRN-20-R-H-3050

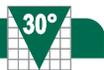


H (mm)	A (mm)	R (mm)	MODELO
100	-	0,8	PRN-20-0,8-100
130	-	0,8	PRN-20-0,8-130
150	-	0,8	PRN-20-0,8-150

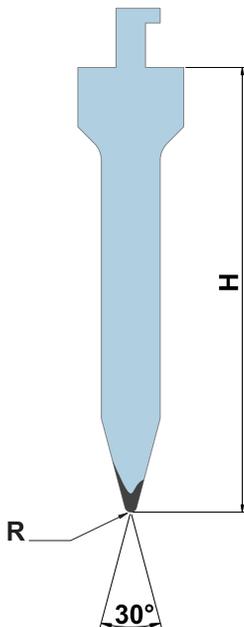


Cr:100 ton./m

PRN-30-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	-	1,0	PRN-30-1,0-100
130	-	1,5	PRN-30-1,5-130
150	-	2,0	PRN-30-2,0-150

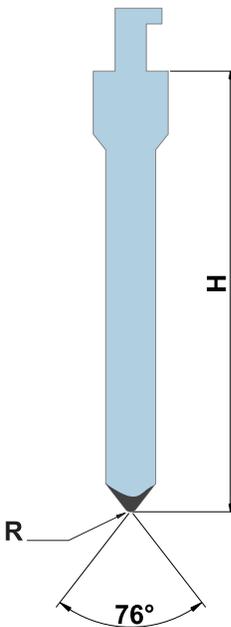


Cr:150 ton./m

PRN-76-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	-	1,0	PRN-76-1,0-100
130	-	1,5	PRN-76-1,5-130
150	-	2,0	PRN-76-2,0-150

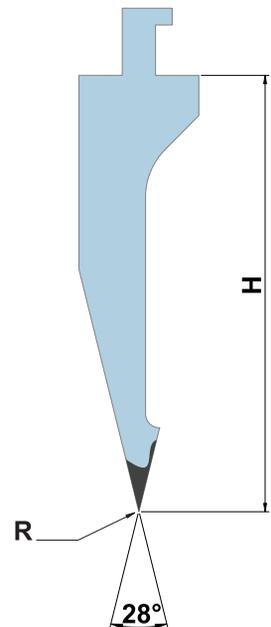


Cr:200 ton./m

PRN-28-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
80	-	0,5	PRN-28-0,5-80
100	-	0,8	PRN-28-0,8-100
130	-	0,8	PRN-28-0,8-130



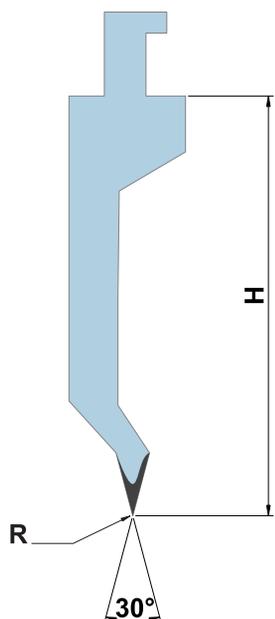
Cr:100 ton./m

PUNÇÕES ESPECIAIS

PEN-30-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	-	0,8	PEN-30-0,8-100
130	-	0,8	PEN-30-0,8-130
-	-	-	-

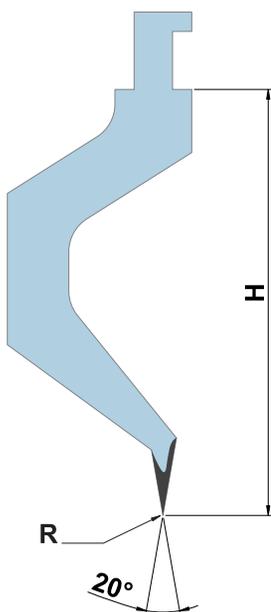


Cr:45 ton./m

PEN-20-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	-	0,8	PEN-20-0,8-100
130	-	0,8	PEN-20-0,8-130
-	-	-	-

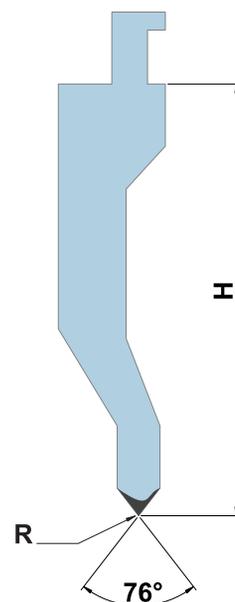


Cr:40 ton./m

PEN-76-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	-	1,0	PEN-76-1,0-100
130	-	1,0	PEN-76-1,0-130
-	-	-	-

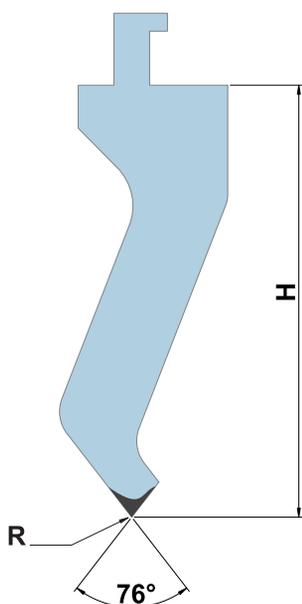


Cr:100 ton./m

PEN-76-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	-	1,0	PEN-76-1,0-100
130	-	1,0	PEN-76-1,0-130
-	-	-	-

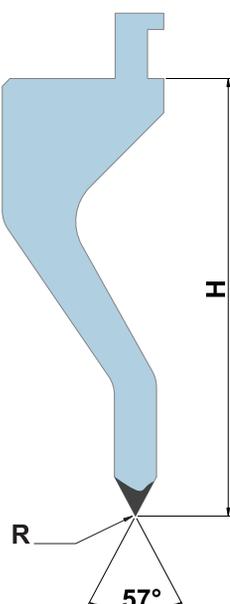


Cr:100 ton./m

PEN-57-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
100	-	1,0	PEN-57-1,0-100
130	-	1,0	PEN-57-1,0-130
140	-	1,0	PEN-57-1,0-140

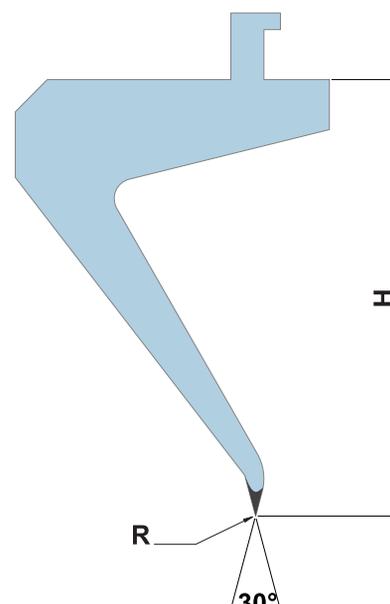


Cr:80 ton./m

PEN-30-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
130	-	0,5	PEN-30-0,8-130
140	-	0,8	PEN-30-0,8-140
150	-	0,8	PEN-30-0,8-150



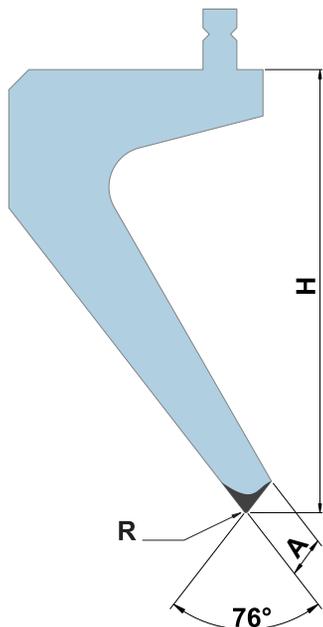
Cr:50 ton./m

PUNÇÕES ANGULARES

PATB-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	12,7	1,0	PATB-76-12,7-120
220	13,5	1,5	PATB-76-13,5-220
240	15,0	1,5	PATB-76-15,0-240

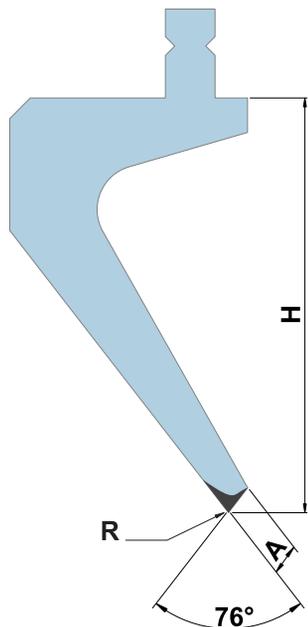


Cr:100 ton./m

PATB-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	8,0	0,8	PATB-76-8,0-120
220	9,5	0,8	PATB-76-9,5-220
240	10,5	0,8	PATB-76-10,5-240

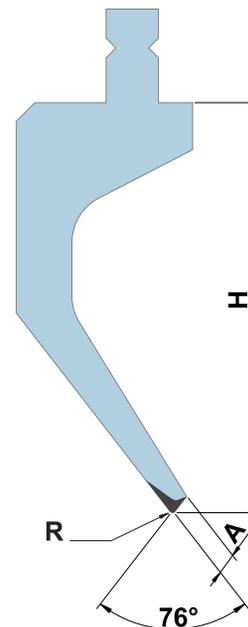


Cr:80 ton./m

PATB-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	5,0	0,6	PATB-76-5,0-120
220	6,5	0,6	PATB-76-6,5-220
240	7,5	0,6	PATB-76-7,5-240

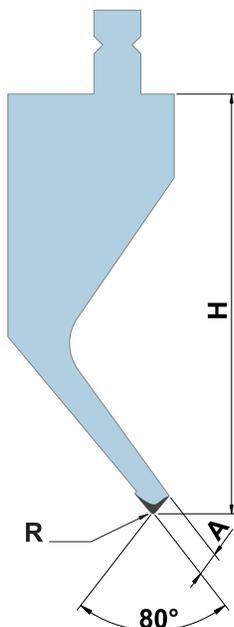


Cr:45 ton./m

PATB-80-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	5,0	0,5	PATB-80-5,0-120
220	7,5	0,8	PATB-80-7,5-220
240	8,5	0,8	PATB-80-8,5-240

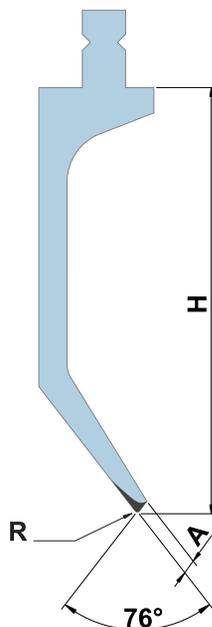


Cr:30 ton./m

PATB-76-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	6,0	0,5	PATB-76-6,0-120
220	8,0	0,8	PATB-76-8,0-220
240	10,0	0,8	PATB-76-10,0-240

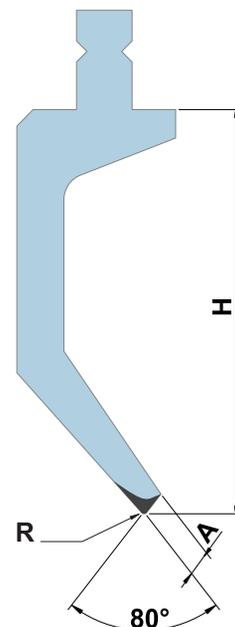


Cr:40 ton./m

PATB-80-A-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	8,0	0,8	PATB-80-8,0-120
220	10,0	0,8	PATB-80-10,0-220
240	12,0	1,5	PATB-80-12,0-240



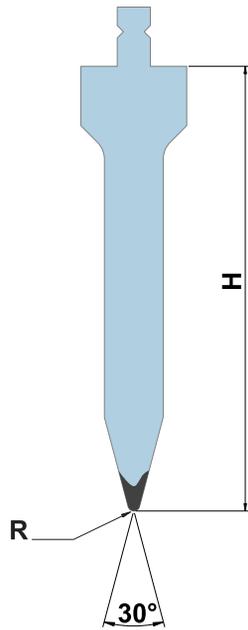
Cr:60 ton./m

PUNÇÕES RETOS

PRTB-30-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	-	1,0	PRTB-30-1,0-120
220	-	2,0	PRTB-30-2,0-220
240	-	2,0	PRTB-30-2,0-240

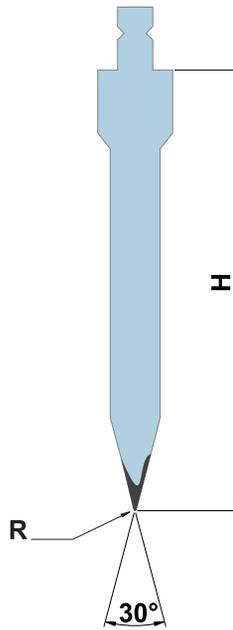


Cr:150 ton./m

PCN-30-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	-	0,5	PRTB-30-0,5-120
220	-	0,8	PRTB-30-0,8-220
240	-	1,0	PRTB-30-1,0-240

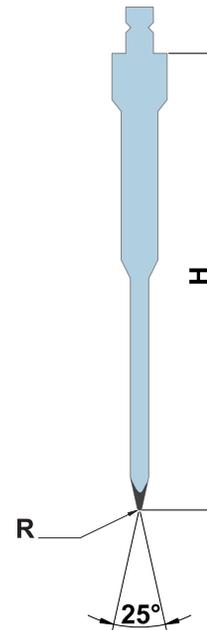


Cr:100 ton./m

PRTB-25-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	-	0,8	PRTB-25-0,8-120
220	-	0,8	PRTB-25-0,8-220
240	-	0,8	PRTB-25-0,8-240

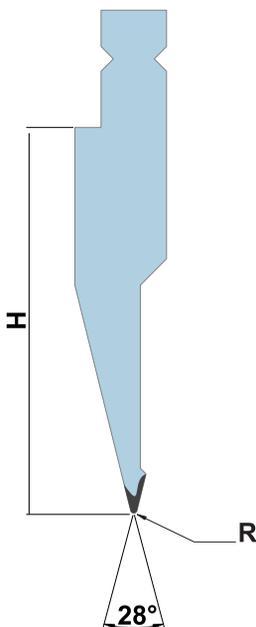


Cr:60 ton./m

PRTB-28-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	-	1,0	PRTB-28-1,0-120
220	-	1,0	PRTB-28-1,0-220
240	-	1,0	PRTB-28-1,0-240

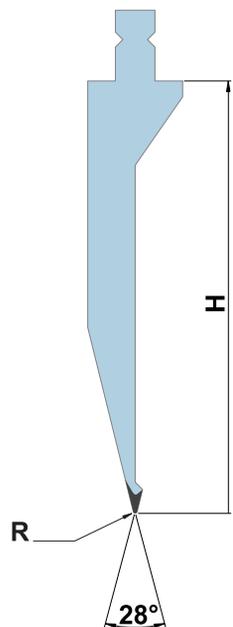


Cr:80 ton./m

PRTB-28-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	-	1,0	PRTB-28-1,0-120
220	-	1,0	PRTB-28-1,0-220
240	-	1,0	PRTB-28-1,0-240

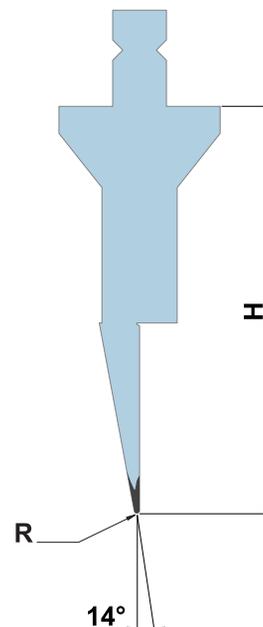


Cr:80 ton./m

PRTB-14-R-H-3050



H (mm)	A (mm)	R (mm)	MODELO
120	-	1,0	PRTB-14-1,0-120
220	-	1,0	PRTB-14-1,0-220
240	-	1,0	PRTB-14-1,0-240

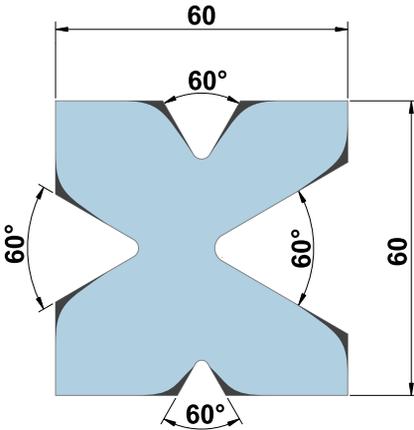
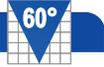


Cr:120 ton./m

MATRIZES DE DOBRA

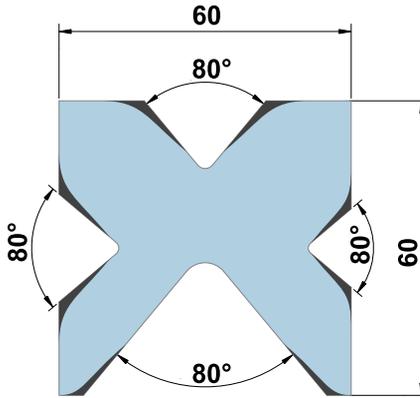
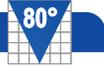
FIXAÇÃO EUROPEIA

ME-60-3050-60°-M



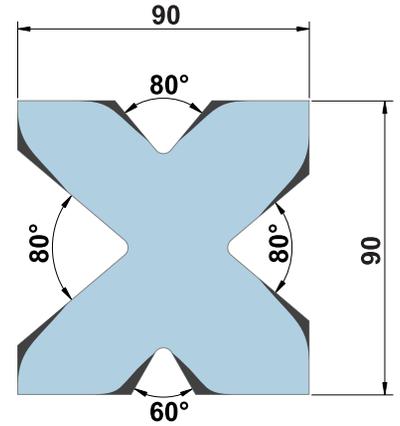
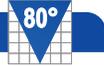
Cr(42kg/mm²): 47 ton./m
Cr(70kg/mm²): 79 ton./m

ME-60-3050-80°-M



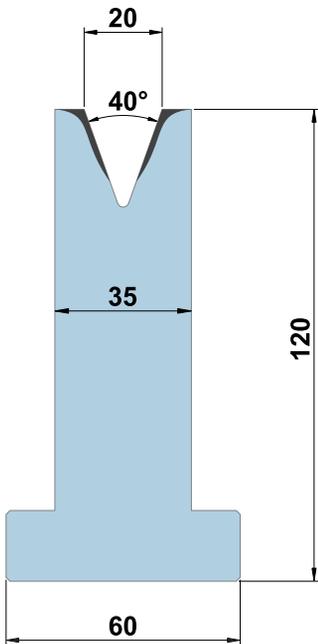
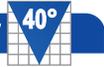
Cr(42kg/mm²): 45 ton./m
Cr(70kg/mm²): 75 ton./m

ME-90-3050-80°-M



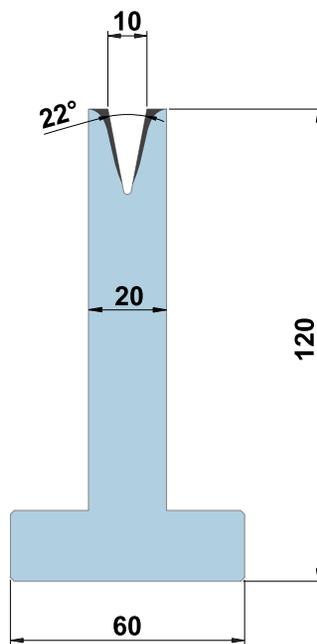
Cr(42kg/mm²): 32 ton./m
Cr(70kg/mm²): 53 ton./m

ME120/20-35-40°-3050-T



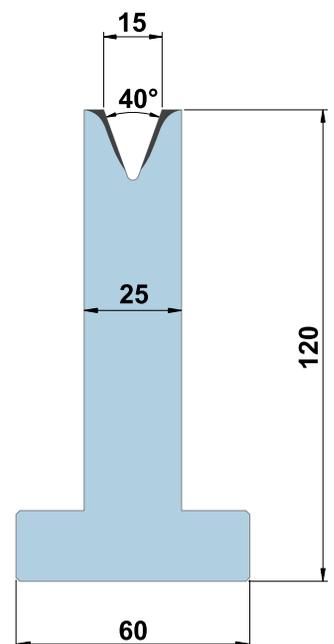
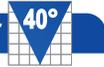
Cr(42kg/mm²): 20 ton./m
Cr(70kg/mm²): 33 ton./m

ME120/10-20-22°-3050-T



Cr(42kg/mm²): 12 ton./m
Cr(70kg/mm²): 20 ton./m

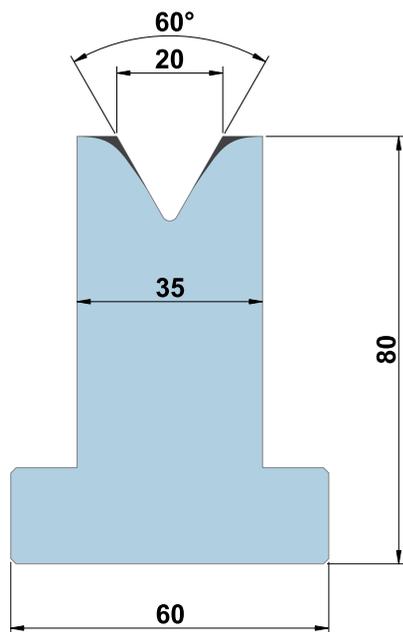
ME120/15-25-40°-3050-T



Cr(42kg/mm²): 47 ton./m
Cr(70kg/mm²): 26 ton./m

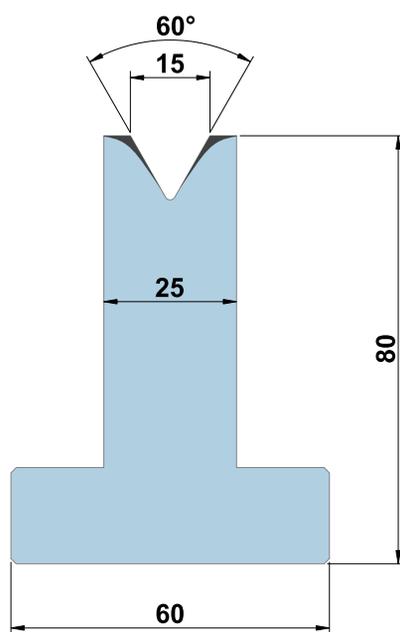
MATRIZES DE DOBRA

ME80/20-35-60°-3050-T



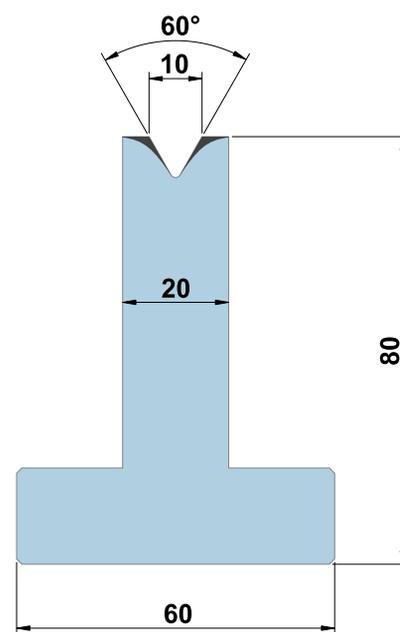
Cr(42kg/mm²): 20 ton./m
Cr(70kg/mm²): 33 ton./m

ME80/15-25-60°-3050-T



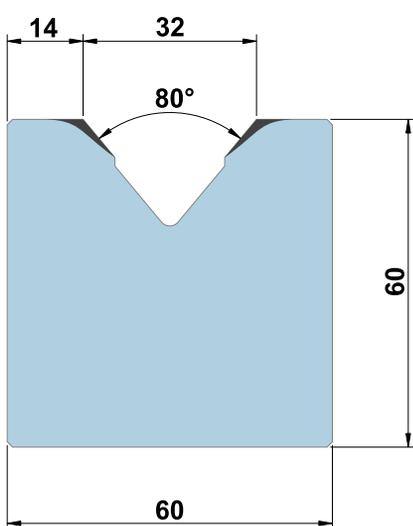
Cr(42kg/mm²): 16 ton./m
Cr(70kg/mm²): 26 ton./m

ME80/10-20-60°-3050-T



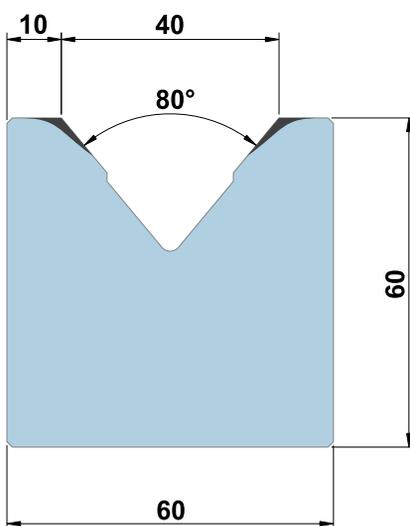
Cr(42kg/mm²): 15 ton./m
Cr(70kg/mm²): 25 ton./m

ME60/32-80°-3050-V



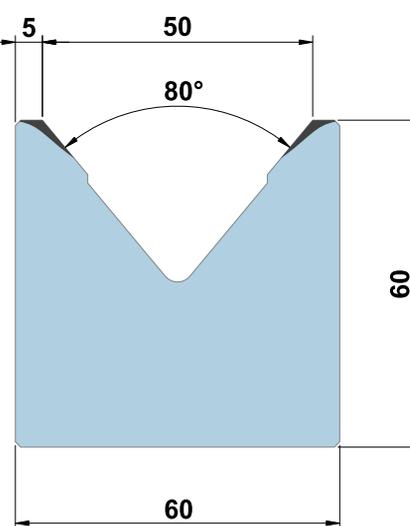
Cr(42kg/mm²): 32 ton./m
Cr(70kg/mm²): 53 ton./m

ME60/40-80°-3050-V



Cr(42kg/mm²): 39 ton./m
Cr(70kg/mm²): 66 ton./m

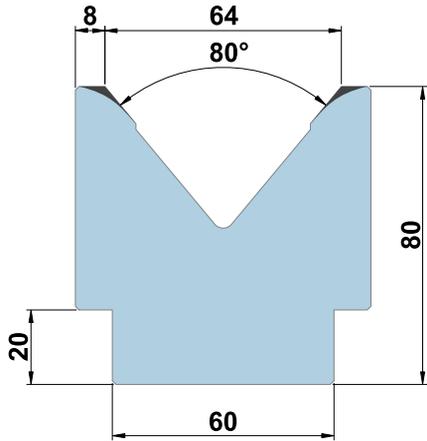
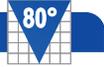
ME60/50-80°-3050-V



Cr(42kg/mm²): 45 ton./m
Cr(70kg/mm²): 75 ton./m

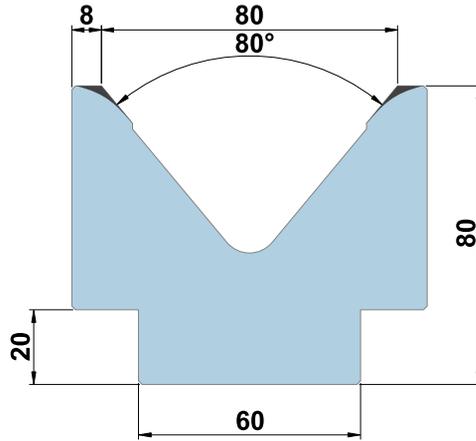
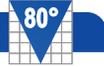
MATRIZES DE DOBRA

ME80/64-80°-3050-V



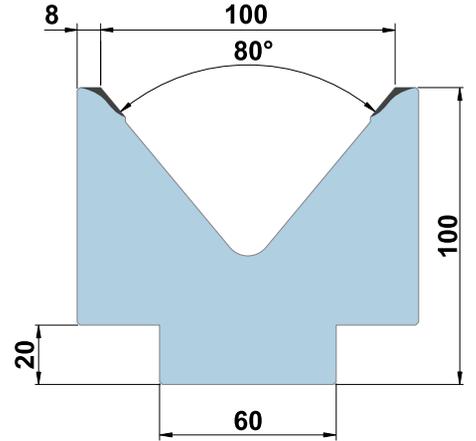
Cr(42kg/mm²): 32 ton./m
Cr(70kg/mm²): 53 ton./m

ME80/80-80°-3050-V



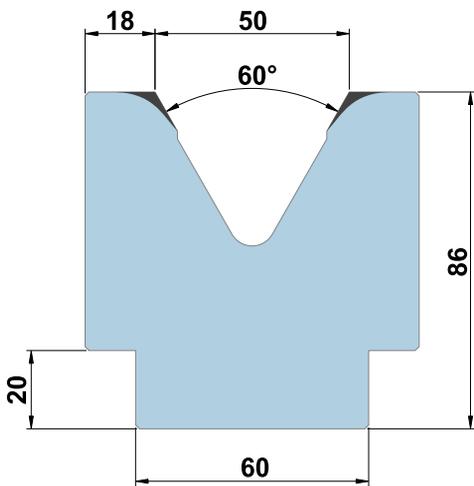
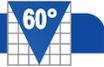
Cr(42kg/mm²): 47 ton./m
Cr(70kg/mm²): 78 ton./m

ME100/100-80°-3050-V



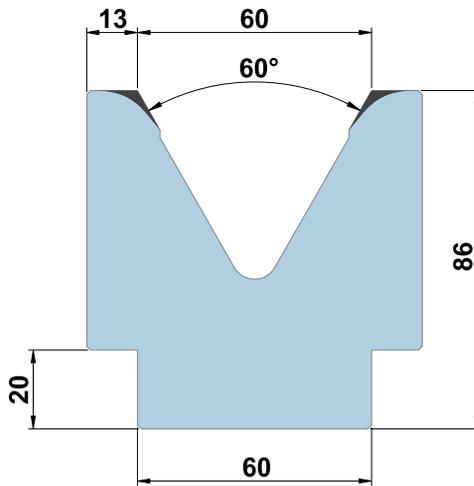
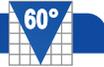
Cr(42kg/mm²): 59 ton./m
Cr(70kg/mm²): 98 ton./m

ME86/50-60°-3050-V



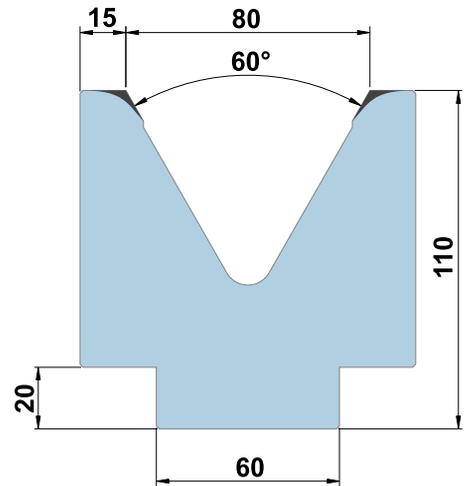
Cr(42kg/mm²): 45 ton./m
Cr(70kg/mm²): 75 ton./m

ME86/60-60°-3050-V



Cr(42kg/mm²): 32 ton./m
Cr(70kg/mm²): 53 ton./m

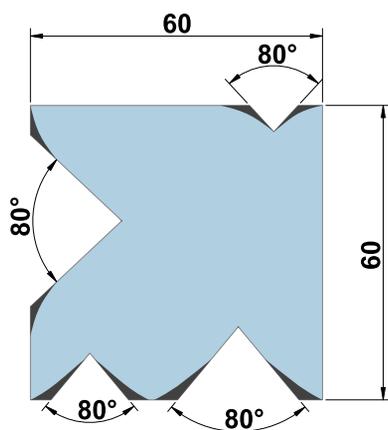
ME110/80-60°-3050-V



Cr(42kg/mm²): 47 ton./m
Cr(70kg/mm²): 78 ton./m

MATRIZES DE DOBRA

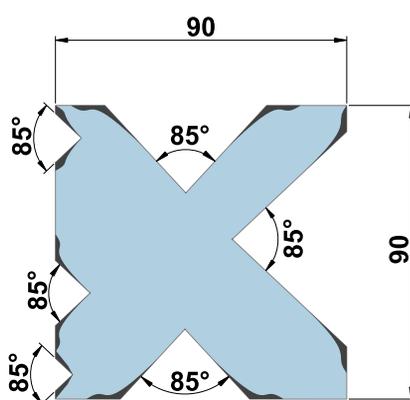
MA-60-3050-80°-M



Cr(42kg/mm²): 22 ton./m

Cr(70kg/mm²): 79 ton./m

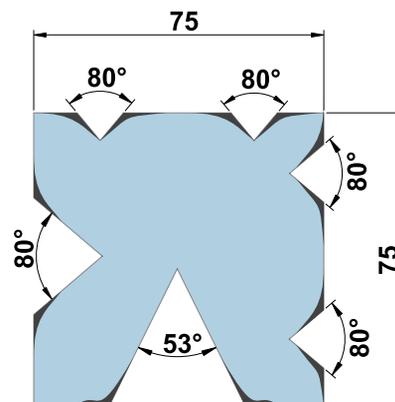
MA-90-3050-85°-M



Cr(42kg/mm²): 22 ton./m

Cr(70kg/mm²): 53 ton./m

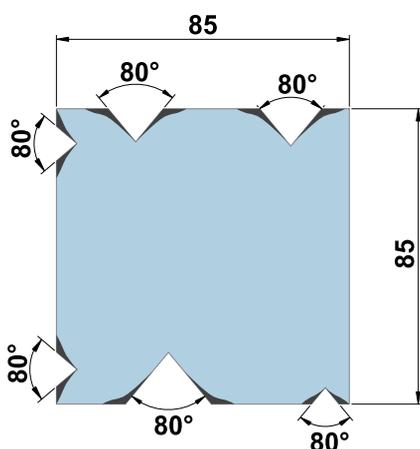
MA-75-3050-80°-M



Cr(42kg/mm²): 22 ton./m

Cr(70kg/mm²): 79 ton./m

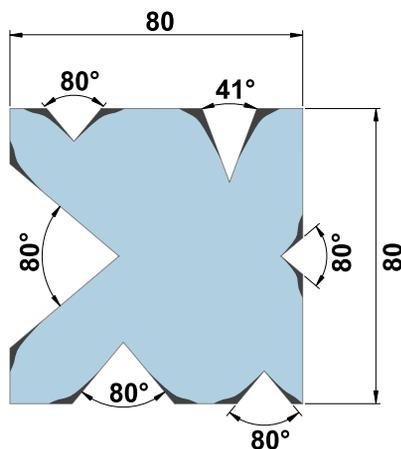
MA-85-3050-80°-M



Cr(42kg/mm²): 22 ton./m

Cr(70kg/mm²): 37 ton./m

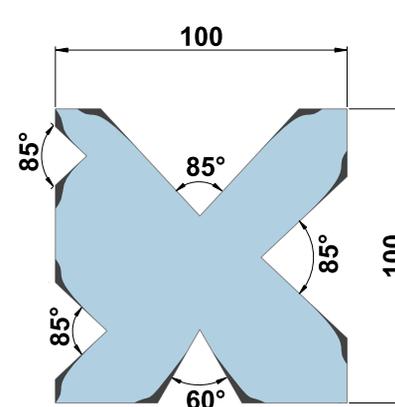
MA-80-3050-80°-M



Cr(42kg/mm²): 45 ton./m

Cr(70kg/mm²): 75 ton./m

MA-100-3050-85°-M

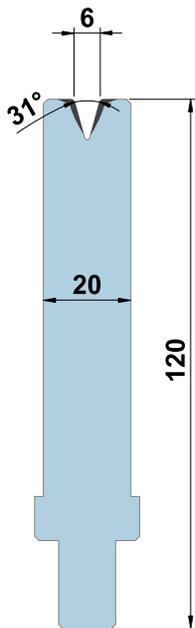


Cr(42kg/mm²): 32 ton./m

Cr(70kg/mm²): 53 ton./m

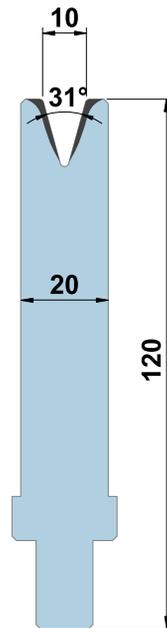
MATRIZES DE DOBRA

MTB120/6-20-3050-31°



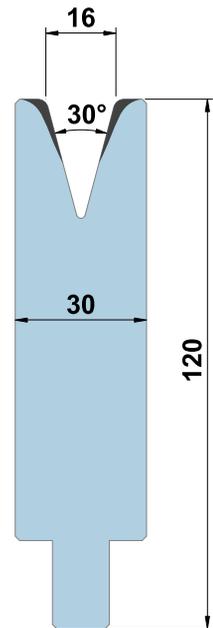
Cr(42kg/mm²): 20 ton./m
Cr(70kg/mm²): 11 ton./m

MTB120/10-20-3050-31°



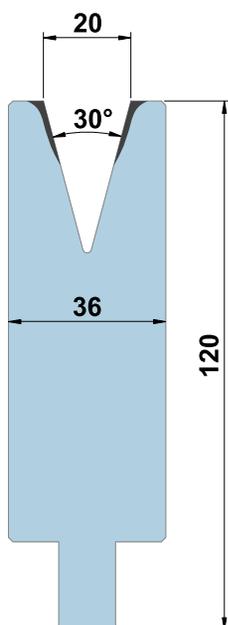
Cr(42kg/mm²): 20 ton./m
Cr(70kg/mm²): 25 ton./m

MTB120/16-30-3050-30°



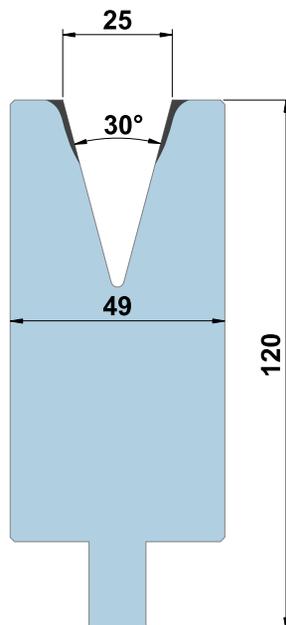
Cr(42kg/mm²): 20 ton./m
Cr(70kg/mm²): 26 ton./m

MTB120/20-36-3050-30°



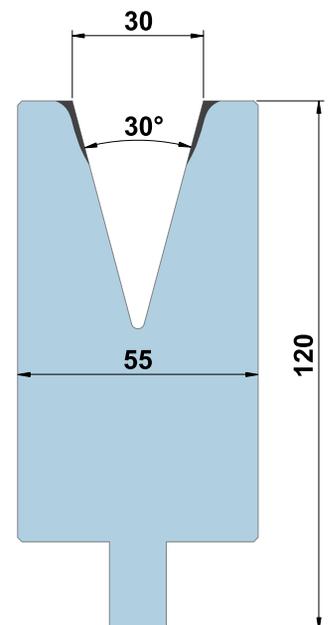
Cr(42kg/mm²): 20 ton./m
Cr(70kg/mm²): 33 ton./m

MTB120/25-49-3050-30°



Cr(42kg/mm²): 22 ton./m
Cr(70kg/mm²): 37 ton./m

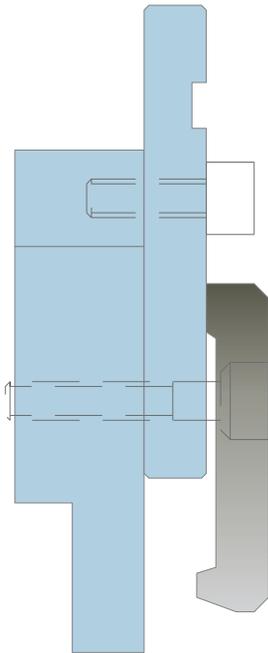
MTB120/30-55-3050-30°



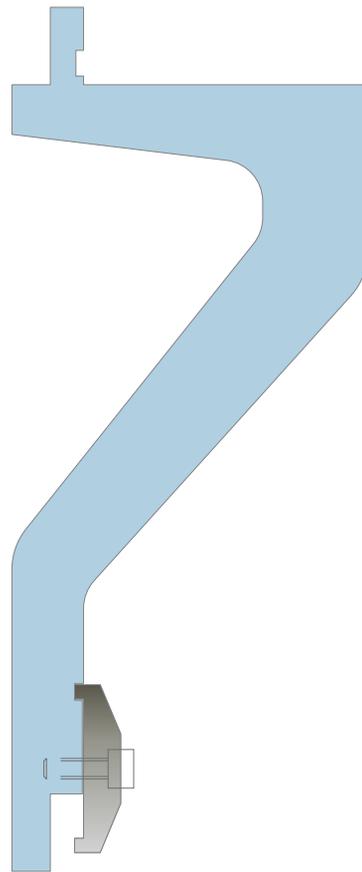
Cr(42kg/mm²): 32 ton./m
Cr(70kg/mm²): 53 ton./m

ADAPTADORES

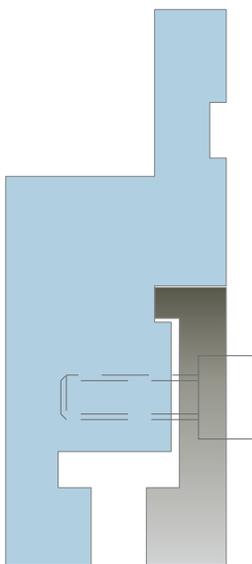
ESPECIAL ADAPTADOR FIXAÇÃO EUROPEIA



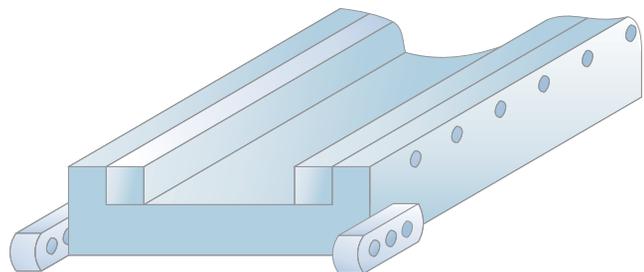
ESPECIAL PROLONGADOR FIXAÇÃO EUROPEIA



ESPECIAL ADAPTADOR FIXAÇÃO AMERICANA

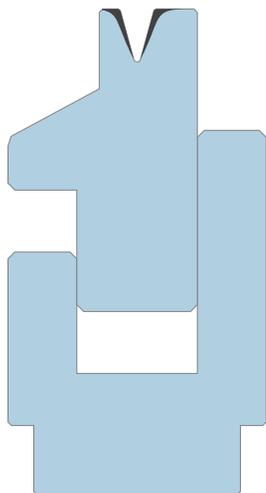


ESPECIAL BASE ADAPTADORA

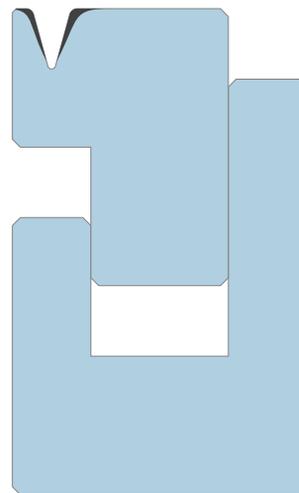


FERRAMENTAS ESPECIAIS

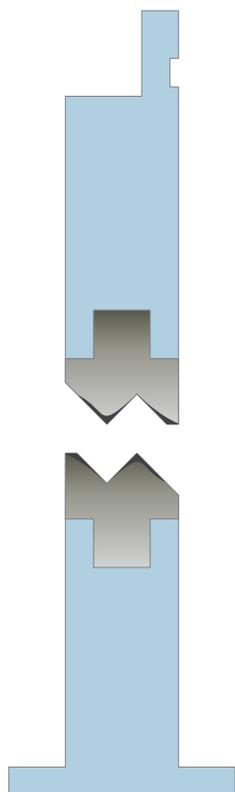
ESPECIAL CONJ. FERRAMENTA CONJUGADA



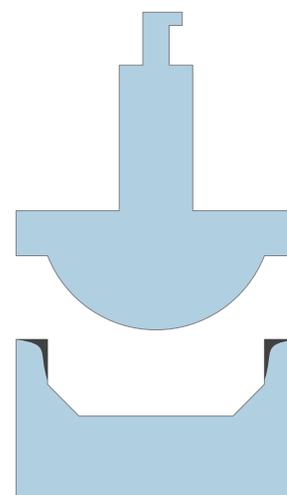
ESPECIAL CONJ. FERRAMENTA CONJUGADA



ESPECIAL FERR. TIPO 'Z' INTERCAMBIÁVEIS



ESPECIAL FERR. LAMBRIL REDONDO



TABELAS

ESPECIAL TABELA DE DOBRA AO AR COM ÂNGULO DE 90 GRAUS

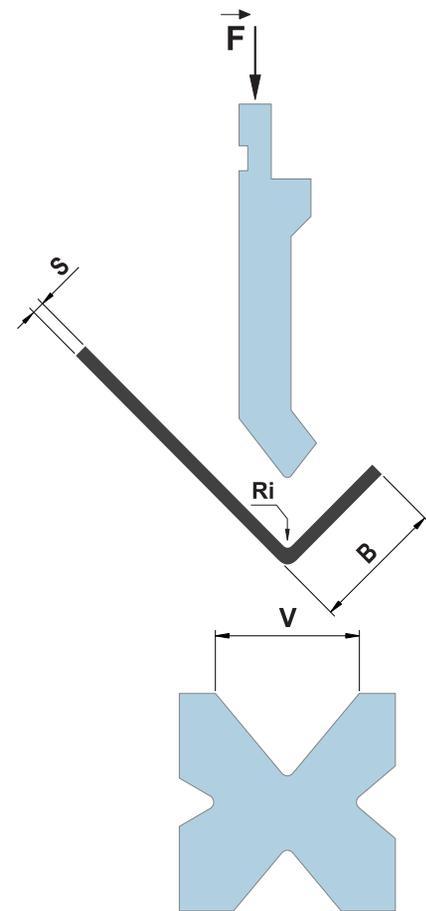
Símbolo	Nomenclatura
S (mm)	Espessura da chapa
V (mm)	Abertura do canal da matriz de dobra
F (ton./m)	Força por metro de dobra
R (kg/mm ²)	Resistência à tração
Ri (mm)	Raio interno da dobra
B (mm)	Bordo mínimo

$$F = \frac{\left\{ 1 + \left(\frac{4.S}{V} \right) \right\} . S^2 . R}{V}$$

$$B = 0,7.V$$

$$Ri = \frac{V}{6}$$

Aço Carbono
 Aço Inox



	S (mm)	0,6		0,8		1,0		1,2		1,5		2,0	
	V (mm)	6	7	6	7	7	8	8	10	10	12	12	16
(R = 42 kg/mm ²)	F (ton./m)	4	3	7	6	9	8	12	9	15	12	23	16
(R = 70 kg/mm ²)	F (ton./m)	6	5	11	9	16	13	20	15	25	20	39	26
	Ri (mm)	1,0	1,2	1,0	1,2	1,2	1,3	1,3	1,7	1,7	2,0	2,0	2,7
	B (mm)	4,2	4,9	4,2	4,9	4,9	4,9	5,6	7,0	7,0	8,4	8,4	11,2

	S (mm)	2,5		3,0		4,0		5,0		6,0		8,0	
	V (mm)	20	23	23	25	32	35	35	40	50	65	80	90
(R = 42 kg/mm ²)	F (ton./m)	20	16	25	22	32	28	47	39	45	32	47	40
(R = 70 kg/mm ²)	F (ton./m)	33	27	42	37	53	47	79	66	75	53	78	67
	Ri (mm)	3,3	3,8	3,8	4,2	5,3	5,8	5,8	6,7	8,3	10,8	13,3	15,0
	B (mm)	14,0	16,1	16,1	17,5	22,4	24,5	24,5	28,0	35,0	45,5	56,0	63,0

	S (mm)	10,0		12,0		15,0		16,0		20,0		25,0	
	V (mm)	90	100	110	125	140	160	160	200	200	250	250	300
(R = 42 kg/mm ²)	F (ton./m)	67	59	79	67	96	81	94	71	118	89	147	117
(R = 70 kg/mm ²)	F (ton./m)	112	98	132	112	161	135	157	118	196	148	245	194
	Ri (mm)	15,0	16,7	18,3	20,8	23,3	26,7	26,7	33,3	33,3	41,7	41,7	50,0
	B (mm)	63,0	70,0	77,0	87,5	98,0	112	112	140	140	175	175	210

