

INDOCA

MAQUINARIA



**DIRECTAMENTE
DEL
FABRICANTE**

ES

**UTILES PARA
PLEGADORAS**

SISTEMA DE FIJACION, ADAPTADORES, POST-
VENTA, MODIFICACIONES, ACCESORIOS,
CUCHILLAS PARA CIZALLA

PUNZONES PROMECAM

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PUNZONES PROMECAM A 90° - SERIE R1		
PK.97.90.R06-R025	PK.97.90.R08-R025	PK.114.90.R06
- H=66.80 A=96.80 350kN/m máx. - Long: 835mm-415mm - Fraccionado: 795mm - Bigornia tipo 1 42Cr: 900-1150N/mm²	- H=66.35/66.60 A=96.35/96.60 1000kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=83.95 A=114 200kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²
PK.116.90.R08	DK.116.90.R08	PK.120.90.R08-R025
- H=85.95 A=116 400kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=86 A=116 500kN/m máx. - Long: 835mm-415mm - Fraccionado: 795mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=89.35/89.60 A=119.35/119.60 600kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²
P.130.90.R06-R025	PK.135.90.R08-R025	01630/90°-01602/90° Mod. "A" NUEVO
- H=100 A=130 350kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²	- H=104.35/104.60 A=134.35/134.60 500kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=65.60/66.92 A=95.60/96.92 R3/R0,2 1000kN/m máx. - Long: 835mm-415mm - Fraccionado: 795mm-800mm - Bigornia tipo 3 - C45: 560-710N/mm²





PUNZONES PROMECAM A 90° - MODELO "A" - NUEVO

11600/90°	04600/90°	46200/90°
• H=66.90 A=96.90 • 200kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 7 • 42Cr: 900-1150N/mm²	• H=104.91 A=134.91 • 500kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • 42Cr: 900-1150N/mm²	• H=89.91 A=119.91 • 700kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • 42Cr: 900-1150N/mm²
46300/90°	04800/90°	20100/90°
• H=89.91 A=119.91 • 500kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-800mm • Bigornia tipo 7 • 42Cr: 900-1150N/mm²	• H=120 A=150 • 500kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • 42Cr: 900-1150N/mm²	• H=69.91 A=99.91 • 300kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 4 • 42Cr: 900-1150N/mm²
20300/90°	01680/90°	01690/90°
• H=99.91 A=129.91 • 300kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 4 • 42Cr: 900-1150N/mm²	• H=66.91 A=96.91 • 400kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • C45: 560-710N/mm²	• H=66.91 A=96.91 • 800kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • C45: 560-710N/mm²

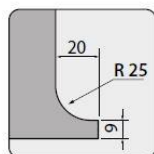




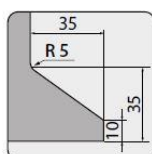
PUNZONES PROMECAM A 90° - MODELO "A" - (CONT.) - NUEVO

10800/90°		
• H=94.91 A=124.91 R0,2 • 500kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 4 • 42Cr: 900-1150N/mm²		

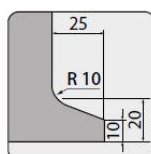
Bigornias



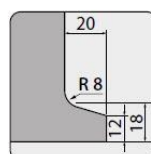
BIGOR. 1 Bigornia 1 Standard



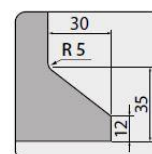
BIGOR. 3 Bigornia 3 Modelo A



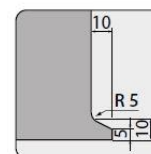
BIGOR. 4 Bigornia 4 Modelo A



BIGOR. 5 Bigornia 5 Modelo A



BIGOR. 6 Bigornia 6 Modelo A



BIGOR. 7 Bigornia 7 Modelo A





PUNZONES PROMECAM A 88° - SERIE R1		
P.95.88.R3	P.97.88.R06-R025	P.97.88.R08/PK.97.88.R025
• H=65.35 A=95.35 • 1000kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=67/66.95 A=97/96.95 R0,6/0,25 • 350kN/m máx. • Longitudes: 835mm-415mm-900mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=66.65/66.60 A=96.65/96.6 R0,8/0,25 • 1000kN/m máx. • Longitudes: 835mm-415mm-900mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²
P.114.88.R06	P.115.88.R06	D.116.88.R08 / R3
• H=84.20 A=114 • 200kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=85 A=115 • 130kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=86/85 A=116/115 R0,8/3 • 500kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²
P.116.88.R08	PS.120.88.R08	P.125.88.R025
• H=86 A=116 • 400kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=89.70 A=119.70 • 450kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=95 A=125 • 500kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²



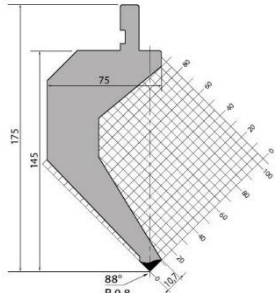
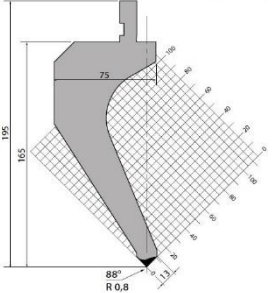
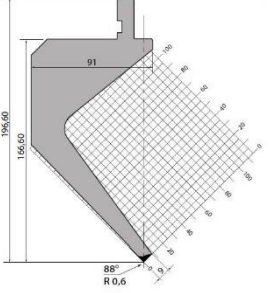
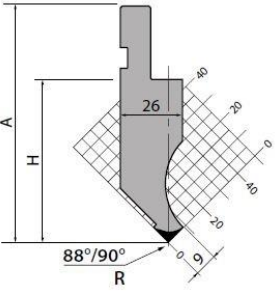
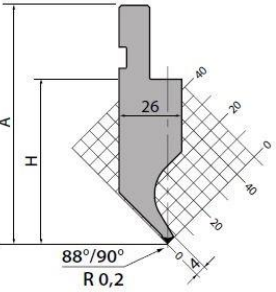
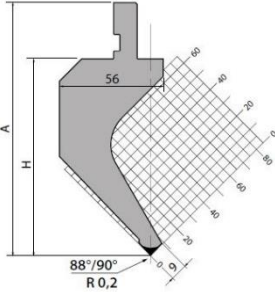
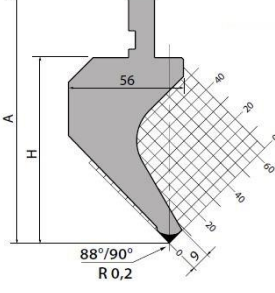
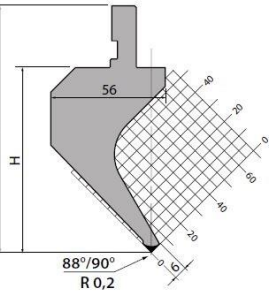
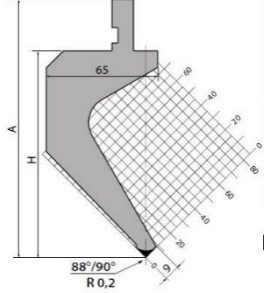


PUNZONES PROMECAM A 88° - SERIE R1 – (CONT.)		
P.120.88.R08/P.120.88.R3/PK.120.88.R025	P.130.88.R06/PK.130.88.R025	P.130.88.R08/R025
- H=89.65/88.5/89.6 A=120/118.5/120 R0,8/R3/R0,25 600kN/m máx. - Long: 835mm-415mm - Fraccionado: 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=100/99.95 A=130/129.95 R0,6/R0,25 350kN/m máx. - Longitudes: 835mm-415mm-900mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²	- H=100 A=130 R0,8/0,25 400kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²
P.135.88.R08/R3/PK.135.88.R025	PS.135.88.R08	PR.135.88.R08
- H=104.65/103.4/104.6 A=134.5/133.4/134.5 R0,8/R3/R0,25 500kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=104.65 A=134.5 450kN/m máx. - Long: 835mm-415mm - Fraccionado: 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=104.65 A=134.5 R0,8 450kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²
P.150.88.R08/R3	P.150.88.R06	P.150.88.R025
- H=120/119 A=150/159 R0,8/R3 500kN/m máx. - Longitudes: 835mm-415mm-900mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²	- H=120 A=150 350kN/m máx. - Longitudes: 900mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²	- H=120 A=150 R0,25 500kN/m máx. - Long: 900mm-415mm - Fraccionado: 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²





PUNZONES PROMECAM A 88° - SERIE R1 - (CONT.)

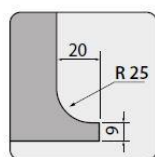
P.175.88.R08	P.195.88.R08	P.196.88.R06
		
• H=145 A=175 R0,8 • 500kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=165 A=195 R0,8 • 600kN/m máx. • Longitudes: 835mm-415mm-900mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=166.6 A=196.6 R0,6 • 400kN/m máx. • Longitudes: 835mm-415mm-900mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²
00402/00430-88° Modelo "A" NUEVO	11700/88° Modelo "A" NUEVO	04502/88° Modelo "A" NUEVO
		
• H=66.9/65.68 A=96.9/95.68 R0,2/R3 • 1000kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-800mm • Bigornia tipo 3 • C45: 560-710N/mm²	• H=66.91 A=96.91R0,2 • 200kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 7 • 42Cr: 900-1150N/mm²	• H=104.91 A=134.91 R0,2 • 500kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • 42Cr: 900-1150N/mm²
46202/88° Modelo "A" NUEVO	46302/88° Modelo "A" NUEVO	04702/88° Modelo "A" NUEVO
		
• H=89.91 A=119.91 R0,2 • 700kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • 42Cr: 900-1150N/mm²	• H=89.91 A=119.91 R0,2 • 500kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-800mm • Bigornia tipo 7 • 42Cr: 900-1150N/mm²	• H=120 A=150 R0,2 • 500kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • 42Cr: 900-1150N/mm²



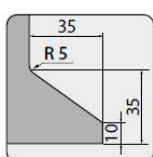


PUNZONES PROMECAM A 88° - MODELO "A" – NUEVO – (CONT.)		
20000/88°	20200/88°	00480/88°
• H=69.91 A=99.91 • 300kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 4 • 42Cr: 900-1150N/mm²	• H=99.91 A=129.91 • 300kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 4 • 42Cr: 900-1150N/mm²	• H=66.91 A=96.91 • 400kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • C45: 560-710N/mm²
00490/88°	10900/10906/88°	
• H=66.91 A=96.91 • 800kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 3 • C45: 560-710N/mm²	• H=94.91/94.74 A=124.91/124.74 R0,2/R0,6 • 500kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 4 • 42Cr: 900-1150N/mm²	

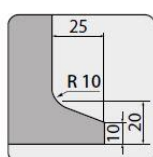
Bigornias



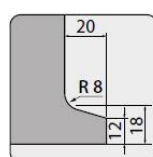
BIGOR. 1
Bigornia 1
Standard



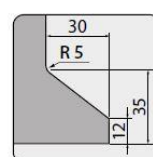
BIGOR. 3
Bigornia 3
Modelo A



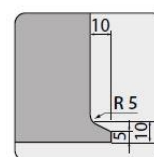
BIGOR. 4
Bigornia 4
Modelo A



BIGOR. 5
Bigornia 5
Modelo A



BIGOR. 6
Bigornia 6
Modelo A



BIGOR. 7
Bigornia 7
Modelo A





PUNZONES PROMECAM A 85° - SERIE R1

P.97.85.R08/PK.95.85.R3	PK.120.85.R08	P.120.85.R1
- H=66.6/65.45 A=96.5/95.45 R0,8/R3 1000kN/m máx. - Long: 835mm-415mm - Fraccionado: 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=89.6 A=119.6 R0,8 600kN/m máx. - Longitudes: 835mm-415mm-900mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=90 A=120 R1 800kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²
P.130.85.R025	PK.135.85.R08	P.135.85.R08
- H=99.95 A=129.95 R0,25 350kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²	- H=104.6 A=134.6 500kN/m máx. - Long: 835mm-415mm - Fraccionado: 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=105 A=135 R0,8 800kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²
PS.135.85.R08	P.145.85.R08	P.250.85.R15 - NUEVO
- H=105 A=135 R0,8 1000kN/m máx. - Longitudes: 835mm-415mm-900mm - Fraccionados 795mm-805mm - Bigornia tipo 1 - C45: 560-710N/mm²	- H=115 A=145 600kN/m máx. - Longitudes: 835mm-415mm - Fraccionados 795mm-805mm - Bigornia tipo 1 42Cr: 900-1150N/mm²	- H=220 A=250 R1,5 850kN/m máx. - Long: 415mm - Fraccionado: 795mm - Bigornia tipo 1 42Cr: 900-1150N/mm²

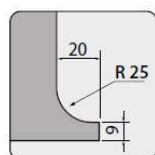




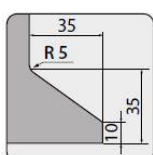
PUNZONES PROMECAM A 85° - SERIE TOP

TOP.175.85.R08/R2	TOP.175.85.R08.S	TOP.205.85.R08/R2
• H=145/144.3 A=175/174.3 R0,8/R2 • 900kN/m máx. • Long: 525mm • Fraccionado: 495mm-500mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²	• H=144.9 A=174.5 R0,8 • 200kN/m máx. • Longitudes: 525mm • Fraccionados: 495mm-500mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²	• H=175/174.3 A=205/204.3 R0,8/R2 • 700kN/m máx. • Longitudes: 525mm • Fraccionados 495mm-500mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²

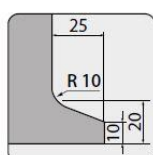
Bigornias



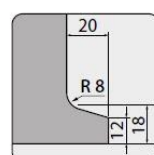
BIGOR. 1 Bigornia 1 Standard



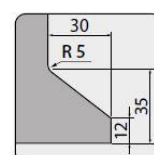
BIGOR. 3 Bigornia 3 Modelo A



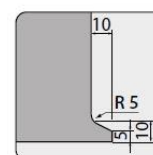
BIGOR. 4 Bigornia 4 Modelo A



BIGOR. 5 Bigornia 5 Modelo A



BIGOR. 6 Bigornia 6 Modelo A



BIGOR. 7 Bigornia 7 Modelo A



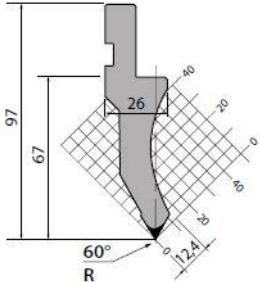
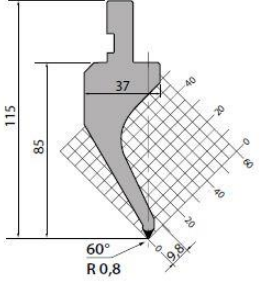
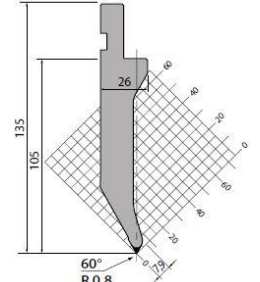
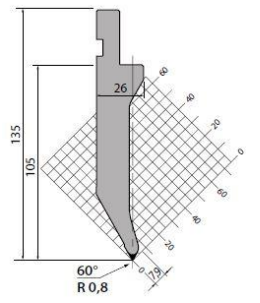
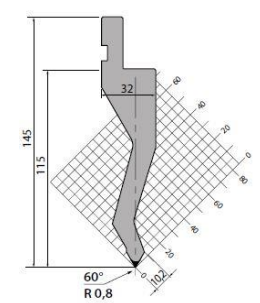
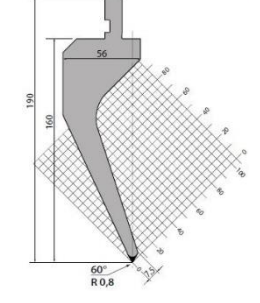
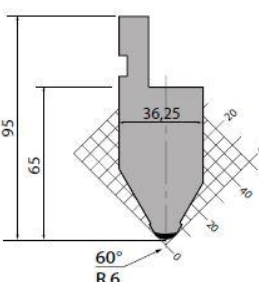
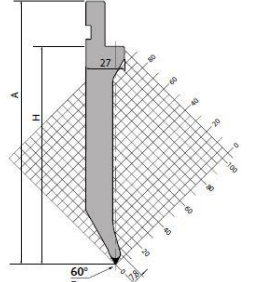
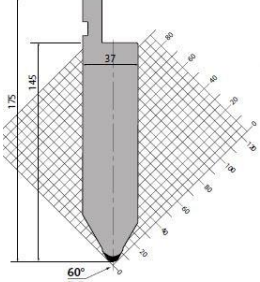


PUNZONES PROMECAM A 75° - SERIE R1		
P.97.75.R08	P.135.75.R08	TOP.175.75.R08/R2
• H=67.6 A=97.6 R0,8 • 1000kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=105 A=135 R0,8 • 1000kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=145/144.2 A=175/174.2 R0,8/R2 • 750kN/m máx. • Longitudes: 525mm • Fraccionados 495mm-500mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²
PUNZONES PROMECAM A 70° - SERIE R1		
P.160.70.R08/R3		
• H=99.95 A=129.95 R0,25 • 350kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²		





PUNZONES PROMECAM A 60° - SERIE R1

P.97.60.R08/R2	P.115.60.R08	P.135.60.R08
		
• H=67 A=97 R2 • 600kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=85 A=115 R0,8 • 400kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=105 A=135 R0,8 • 800kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²
PG.135.60.R08	P.145.60.R08	P.190.60.R08
		
• H=105 A=135 R0,8 • 700kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=115 A=145 R0,8 • 700kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=160 A=190 R0,8 • 400kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²
00300 Modelo "A"	TOP.175.60.R08/R2	TOP.175.60.R5
		
• H=65 A=95 R6 • 1000kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 6 • C45: 560-710N/mm²	• H=145/143.8 A=175/173.8 R0,8/R2 • 800kN/m máx. • Longitudes: 525mm • Fraccionados 495mm-500mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²	• H=145 A=175 R5 • 1600kN/m máx. • Long: 525mm • Fraccionado: 495mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²



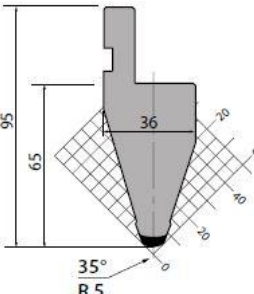
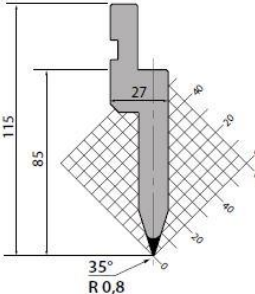
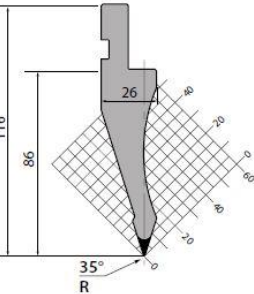
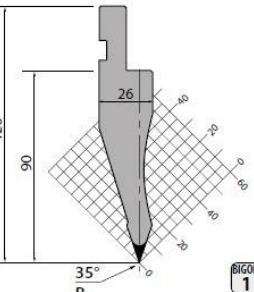
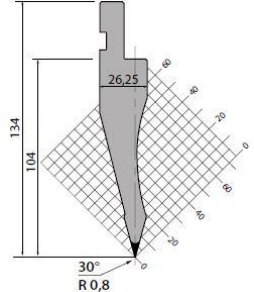
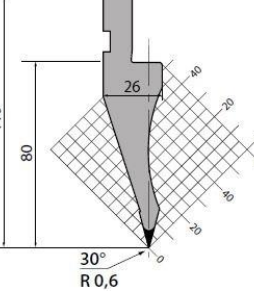
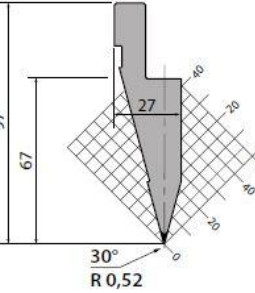
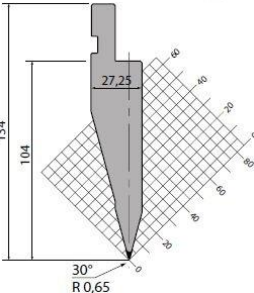


PUNZONES PROMECAM A 45° - SERIE R1		
P.95.45.R08/R15	P.130.45.R6	P.97.45.R05
• H=65.1 A=95.1 R0,8/R1,5 • 800kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=100 A=130 R6 • 1000kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=66.4 A=96.4 R0,5 • 800kN/m máx. • Longitudes: 835mm-415mm-900mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²
00800 Modelo "A"		
• H=67 A=97 R0,37 • 600kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 5 • C45: 560-710N/mm²		





PUNZONES PROMECAM A 30°-35° - SERIE R1

P.95.35.R5	PU.85.35.R08	P.116.35.R08/R15
		
• H=65 A=95 R5 • 1000kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=85 A=115 R0,8 • 1000kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=86 A=116 R0,8/R1,5 • 700kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²
P.120.35.R08/R15/R3		PS.134.30.R08
		
• H=90 A=120 R0,8/R15/R3 • 700kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²		• H=104 A=134 R0,8 • 700kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-800mm • Bigornia tipo 1 • C45: 560-710N/mm²
P.110.30.R06	10300 Modelo "A"	21000 Modelo "A"
		
• H=80 A=110 R0,6 • 500kN/m máx. • Longitudes: 415mm-835mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=67 A= 97 R0,52 • 1000kN/m máx. • Longitudes: 415mm-835mm • Fraccionados 795mm-800mm • Bigornia tipo 5 • 42Cr: 900-1150N/mm²	• H=104 A=134 R0,65 • 1000kN/m máx. • Long: 415mm-835mm • Fraccionado: 795mm-800mm • Bigornia tipo 5 • C45: 560-710N/mm²



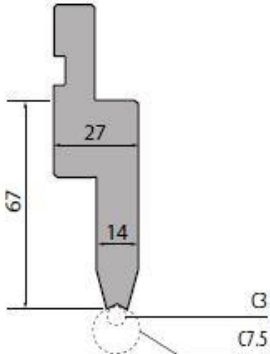
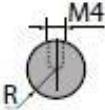
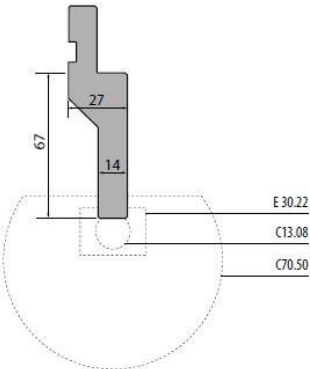
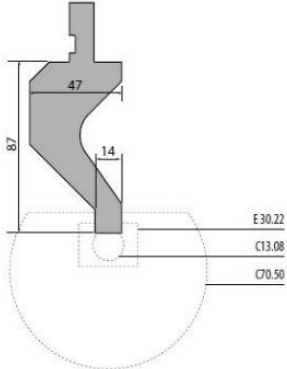
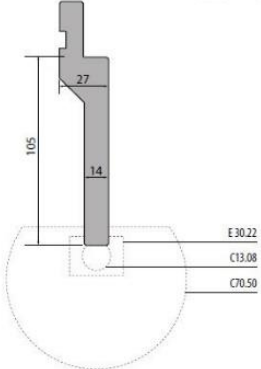


PUNZONES PROMECAM A 26° - SERIE R1 / TOP		
P.147.26.R08 – SERIE R1	PU.117.26.R08/R3 – SERIE R1	PU.150.26.R08.L – SERIE R1
• H=117 A=147 R0,8 • 500kN/m máx. • Long: 835mm-415mm • Fraccionado: 795mm-805mm • Bigornia tipo 1 • 42Cr: 900-1150N/mm²	• H=117/109 A=147/139 R0,8/R3 • 1000kN/m máx. • Longitudes: 835mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²	• H=120 A=150 R0,8 • 1000kN/m máx. • Longitudes: 900mm-415mm • Fraccionados 795mm-805mm • Bigornia tipo 1 • C45: 560-710N/mm²
TOP.175.26.R08 - SERIE TOP	TOP.205.26.R08 – SERIE TOP	TOP.250.26.R1 – SERIE TOP
• H=145 A=175 R0,8 • 950kN/m máx. • Longitudes: 525mm • Fraccionados 495mm-500mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²	• H=175 A=205 R0,8 • 950kN/m máx. • Long: 525mm • Fraccionado: 495mm-500mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²	• H=220 A=250 R1 • 1000kN/m máx. • Longitudes: 525mm • Fraccionados 495mm-500mm • Bigornia tipo 2 • 42Cr: 900-1150N/mm²





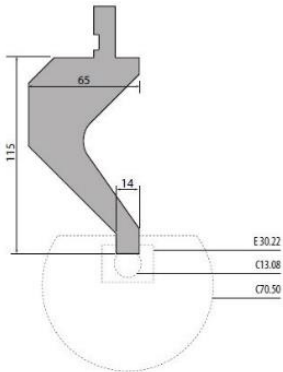
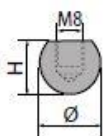
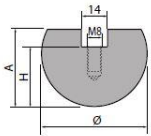
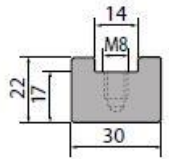
PUNZONES PROMECAM PARA CURVAR – TIPO R1

PU.67.14-S	C3-C7.5	
		
• H=67 • 400kN/m máx. • Long: 830mm-410mm • C45: 560-710N/mm² Para los radios R3-R7,5	• C3 (R3) / C3.5 (R3.5) / C4 (R4) • C4.5 (R4.5) / C5 (R5) / C5.5 (R5.5) • C6 (R6) / C6.5 (R6.5) / C7 (R7) • C7.5 (R7.5) • 400kN/m máx. • Longitudes: 835mm-415mm • C45: 560-710N/mm²	
PU.67.14	PU.87.14	PU.105.14
		
• H=67 • 800kN/m máx. • Longitudes: 830mm-410mm • C45: 560-710N/mm² Para los radios R8 a R50 (13.08-C70-50) Y aplastado (E30.22)	• H=87 • 500kN/m máx. • Long: 830mm-412mm • C45: 560-710N/mm² Para los radios R8 a R50 (13.08-C70-50) Y aplastado (E30.22)	• H=105 • 800kN/m máx. • Longitudes: 830mm-410mm • C45: 560-710N/mm² Para los radios R8 a R50 (13.08-C70-50) Y aplastado (E30.22)





PUNZONES PROMECAM PARA CURVAR – TIPO R1

PU.115.14	ϕ 16-20 (C13.08/C13.09/C16.10)	ϕ 25-100
		 • C17.12 ϕ25 H=17 A=22 • C20.15 ϕ30 H=20 A=27 • C22.17 ϕ35 H=22 A=32 • C24.20 ϕ40 H=24 A=34 • C25.22 ϕ45 H=25 A=35
• H=115 • 500kN/m máx. • Longitudes: 830mm-410mm • C45: 560-710N/mm² Para los radios R8 a R50 (13.08-C70-50) Y aplastado (E30.22)	• C13.08 ϕ16 H=13 • C13.09 ϕ18 H=16 • C16.10 ϕ20 H=16 • 800kN/m máx. • Longitudes: 835mm-415mm • C45: 560-710N/mm²	• C29.25 ϕ50 H=29 A=39 • C34.27 ϕ55 H=34 A=44 • C34.30 ϕ60 H=34 A=44 • C37.32 ϕ65 H=37 A=47 • C45.35 ϕ70 H=45 A=55 • C42.37 ϕ75 H=42 A=52 • C45.40 ϕ80 H=45 A=55 • C60.45 ϕ90 H=60 A=70 • C70.50 ϕ100 H=70 A=80 • 800kN/m máx. • Long: 835mm-415mm • C45: 560-710N/mm²
E30.22 PARA APLANADO		
		
• H=67 • 800kN/m máx. • Longitudes: 835mm-415mm • C45: 560-710N/mm²		





PUNZONES PROMECAM PARA CURVAR – TIPO R1 – SERIE TOP

TOP.PC.120-08	TOP.PC.120-20	TOP.R8-40
- H=90 A=120 1000kN/m máx. - Long: 522mm - Long. Fraccionada: 495mm 42Cr: 9000-1150N/mm² Para los radios R8-R20 (TOP.C08-TOP.C20)	- H=90 A=120 1000kN/m máx. - Long: 522mm - Long. Fraccionada: 495mm 42Cr: 9000-1150N/mm² Para los radios R20-R40 (TOP.C20-TOP.C40)	- TOP.C08 R8 / TOP.C10 R10 - TOP.C12.5 R12,5 / TOP.C15 R15 - TOP.C17.5 R17,5 / TOP.C20 R20 - TOP.C22.5 R22,5 / TOP.C25 R25 - TOP.C27.5 R27,5 / TOP.C30 R30 - TOP.C32.5 R32,5 / TOP.C35 R35 - TOP.C37.5 R37,5 / TOP.C40 R40 1000kN/m máx. - Longitudes: 525mm - Long. Fraccionada: 495mm - C53: 610-760N/mm²

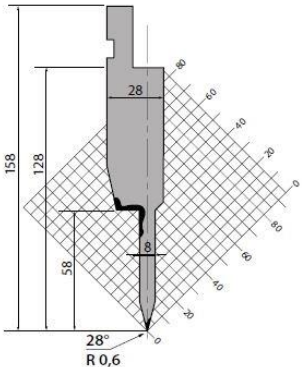
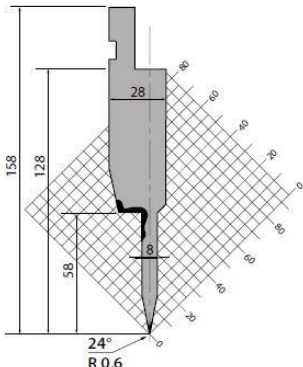
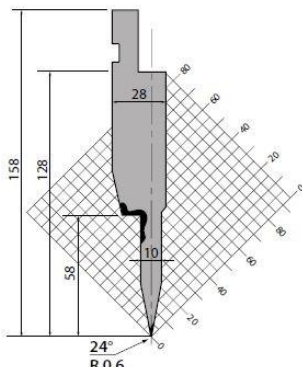
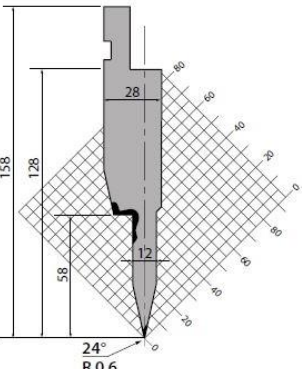
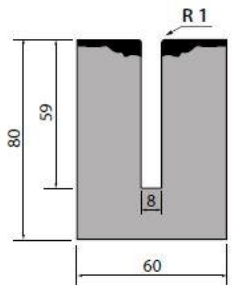
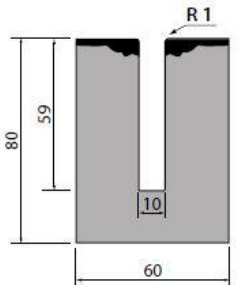
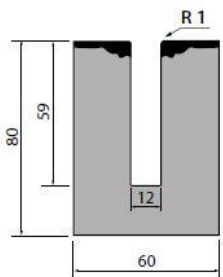
PUNZONES PROMECAM EN "Z" – TIPO R1

CPZ	Z160° / 150° / 140° / 90°	
- Hsup=22/64 Hinf=22/60 1000kN/m máx. - Longitudes: 830mm-415mm - C45: 560-710N/mm²	- H=37 1000kN/m máx. - Long: 830mm-415mm - C45: 560-710N/mm²	- H=25/45 1000kN/m máx. - Longitudes: 830mm-415mm - C45: 560-710N/mm²
- CEZ 1.0 Z=1,0-160° E=1,2mm / CEZ 1.5 Z=1,5-160° E=1,5mm - CEZ 2.0 Z=2,0-150° E=1,4mm / CEZ 2.5 Z=2,5-140° E=1,3mm - CEZ 1.0/90 Z=1,0-90° E=0,3mm / CEZ 1.5/90 Z=1,5-90° E=0,3mm - CEZ 2.0/90 Z=2,0-90° E=0,4mm / CEZ 2.5/90 Z=2,5-90° E=0,5mm - CEZ 3.0 Z=3,0-90° E=1mm / CEZ 3. Z=3,-90° E=1mm - CEZ 4.0 Z=4,0-90° E=1,2mm / CEZ 4.5 Z=4,5-90° E=1,2mm - CEZ 5.0 Z=5,0-90° E=1,3mm / CEZ 5.5 Z=5,5-90° E=1,4mm - CEZ 6.0 Z=6,0-90° E=1,5mm / CEZ 6.5 Z=6,5-90° E=1,5mm - CEZ 7.0 Z=7,0-90° E=1,5mm / CEZ 7.5 Z=7,5-90° E=1,6mm - CEZ 8.0 Z=8,0-90° E=1,6mm		- CEZ 9.0 Z=9-90° E=1,8mm - CEZ 10.0 Z=10-90° E=1,8mm - CEZ 11.0 Z=11-90° E=2mm - CEZ 12.0 Z=12-90° E=2mm - CEZ 13.0 Z=13-90° E=2mm - CEZ 14.0 Z=14-90° E=2mm - CEZ 15.0 Z=15-90° E=2,3mm





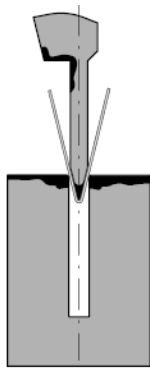
UTILLAJE PROMECAM PARA PLEGADO Y APLASTADO – SERIE TOP

TOP.SP.134.28.8	TOP.SP.134.24.8	TOP.SP.134.24.10
		
• H=58-128 A=158 R0,6 • Long: 525mm • Fraccionado: 495mm • 42Cr: 900-1150N/mm²	• H=58-128 A=158 R0,6 • Longitudes: 525mm • Fraccionados 495mm • 42Cr: 900-1150N/mm²	• H=58-128 A=158 R0,6 • Longitudes: 525mm • Fraccionados 495mm • 42Cr: 900-1150N/mm²
TOP.SP.134.24.12	TOP.SM-134.28.8 / TOP.SM-134.24.8	TOP.SM-134.24.10
		
• H=58-128 A=158 R0,6 • Longitudes: 525mm • Fraccionados 495mm • 42Cr: 900-1150N/mm²	• H=59/80 R1 • Long: 525mm • Fraccionado: 495mm • 42Cr: 900-1150N/mm²	• H=59/80 R1 • Longitudes: 525mm • Fraccionados 495mm • 42Cr: 900-1150N/mm²
TOP.SM-134.24.12		
		
• H=59/80 R1 • Longitudes: 525mm • Fraccionados 495mm • 42Cr: 900-1150N/mm²		

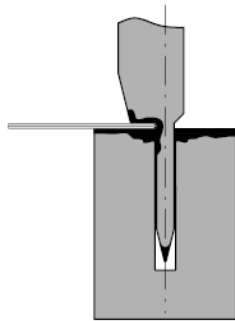




EJEMPLO DE USO



800 kN/m max.



1000 kN/m max.



S (mm)	A (mm)	R.420 kN/mm ² t/m	R.700 kN/mm ² t/m
0,6	3,0	9	15
0,8	3,0	12	20
1,0	3,5	15	25
1,25	3,5	17	26



S (mm)	A (mm)	R.420 kN/mm ² t/m	R.700 kN/mm ² t/m
0,6	1,2	23	35
0,8	1,6	32	50
1,0	1,0	40	60
1,25	2,5	50	80

