



FERRARI



ITA-ENG







CAP.	Pagina/Page
<u>01 - Amada Punzoni/Punches</u>	7
<u>02 - Amada Matrici/Dies</u>	19
<u>03 - LVD Punzoni/Punches</u>	33
<u>04 - LVD Matrici/Dies</u>	43
<u>05 - Trumpf Punzoni/Punches</u>	51
<u>06 - Trumpf Matrici/Dies</u>	59
<u>07 - Beyeler - Bystronic Punzoni/Punches</u>	63
<u>08 - Beyeler - Bystronic Matrici/Dies</u>	71
<u>09 - Colly-Haco Punzoni/Punches</u>	75
<u>10 - Colly-Haco Matrici/Dies</u>	87
<u>11 - Attrezzature/Others</u>	101
Introduzione/Introduction	
Utensili con inserto/Tools with insert	
Adattatori, intermediari e staffe Tool adapters, intermediates and clamps	
Matrici con inserto poliuretano Polyurethane inserts and Holder	
Matrici variabili/Variable opening dies	
Matrici a rullini/Rollers dies	
Tavole compensazione Deflection compensation tables	
Stampi/Special tool sets	
Accessori (armadi, tenditori, pellicola anti-graffio, riferimenti...) Accessories (Tooling cabinets/tighteners/ polyurethane film/stoppers...)	
Lame da cesoia/Shear blades	
Rigeneratura, Modifiche e Subfornitura Repairing service/Modifications and Subcontracting	
Indice/Index	

FERRARI COSTRUZIONI MECCANICHE

Utensili e stampi per presse piegatrici

Azienda

Ferrari Costruzioni Meccaniche nasce nel 1979 a Basilicanova (PR). Da quarant'anni a fianco dei maggiori produttori di presse piegatrici, l'Azienda si distingue per ***l'efficace sinergia creatasi fra tradizione e innovazione***: investimenti tecnologici, progettazione tecnica, scelta dei materiali, controlli su ogni singolo pezzo sono aspetti fondamentali per garantire qualità delle realizzazioni e serietà del servizio offerto. Attenzione alle esigenze di ciascun cliente – anche dopo la vendita – e progettazione tecnica finalizzata alla ricerca delle migliori performance: ***i nostri punti di forza***. Seguire da vicino le evoluzioni del mercato – nazionale e internazionale – interpretandone efficacemente sviluppi ed esigenze: ***un obiettivo che da sempre perseguiamo***.

Servizi

- Utensili e Stampi Standard
- Utensili e Stampi Speciali
- Tavole di Compensazione
- Lame da Cesovia
- Guide di Scorrimento
- Linee di Piegatura
- Fornitura Accessori

Servizi su richiesta

- Rigeneratura Utensili Usurati
- Rigeneratura Lame da Cesovia Usurate
- Lavorazioni Meccaniche: Fresatura
Tempra a Induzione – Rettifica

Valore aggiunto

- Utensili e stampi costruiti con acciai certificati C45 e 42CrMo4 o secondo progetto
- ***Marchio High Quality Control*** – controlli e completa tracciabilità del prodotto
- Progettazione e lavorazione utensili di grandi dimensioni – fino a 8100 mm in un solo pezzo
- Tempra a induzione e a cuore – grande profondità di indurimento
- Rettificatrici speciali e a controllo numerico
- Utensili perfettamente intercambiabili ($\pm 0,01\text{mm}$)



FERRARI COSTRUZIONI MECCANICHE

Tools and dies for press brakes

Company

Ferrari Costruzioni Meccaniche was established in 1979 in Basilicanova (PR). 40 years alongside the major press brakes manufacturers have allowed **the company to develop a knowing synergy comprising craftsman's tradition and experience-based innovation**: investments in technology, technical design, choice of materials, tests and inspections performed on each individual item are essential elements to ensure product quality and timeliness of service. Our added value is given by the attention we pay to the needs of each customer – throughout the whole process – and by the technical design aimed at finding the best solutions and performances. Our main goal is to follow national and international market developments so as to understand customer needs better.

Services

- Standard tools and dies
- Special tools and dies
- Compensation tables
- Shear blades
- Slide ways
- Bending lines
- Supply of accessories

Services request

- Worn tool repair service
- Re-sharpening of worn shear blades
- Mechanical machining: milling – induction hardening – grinding

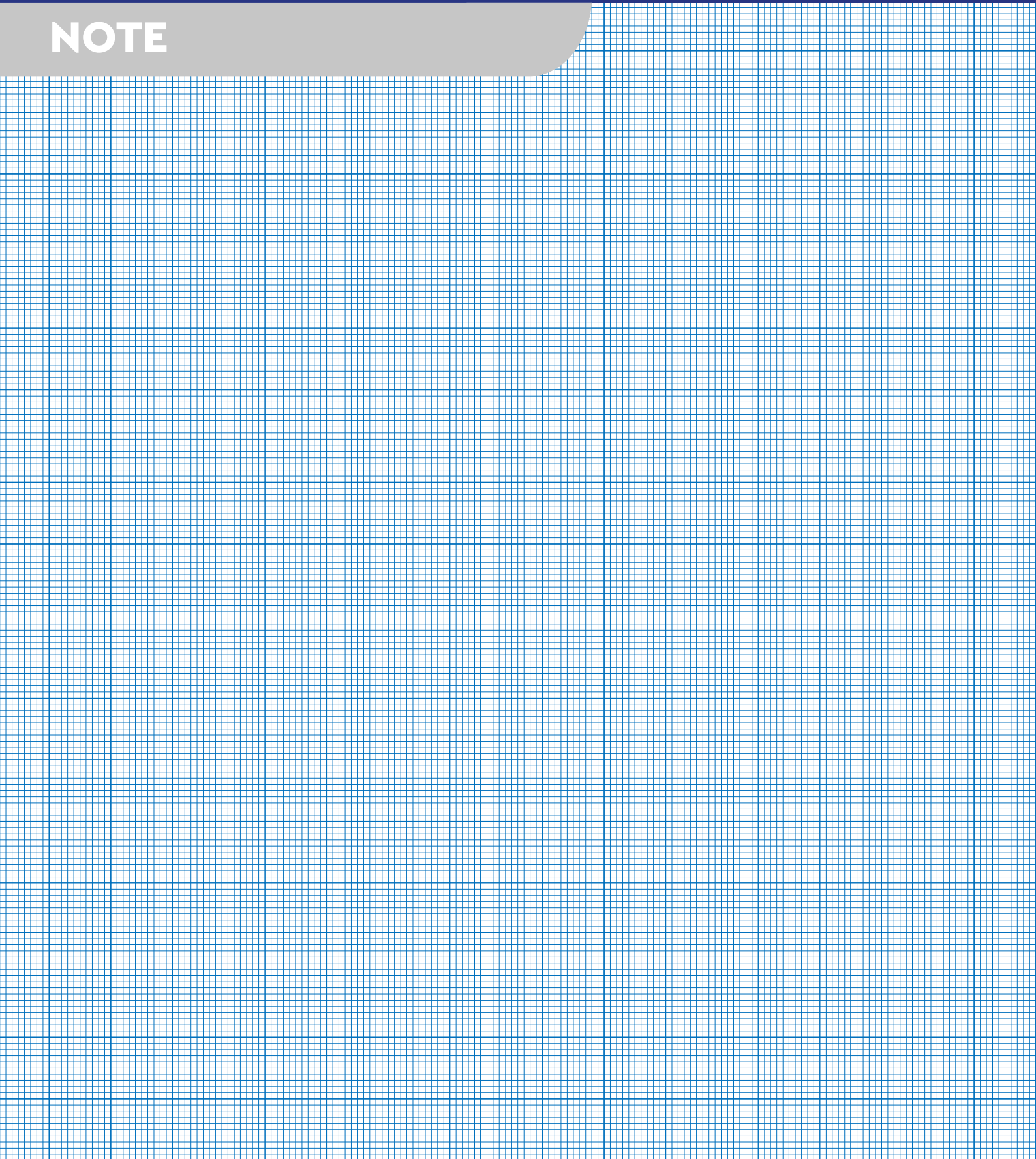
Added value

- Tools and dies are made of certified C45 and 42CrMo4 steels or according to design
- All our tools bear the High Quality Control mark and are completely traceable
- We design and process large tools of up to 8 meters
- Induction and core hardening – considerable depth of hardening

- Special and numerical control grinding machines

- Tools are perfectly interchangeable (+0.01mm

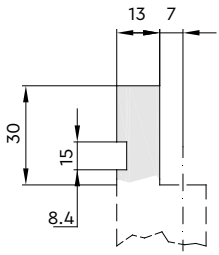
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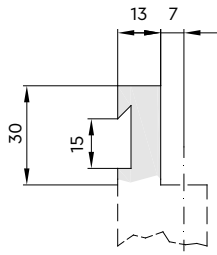


AMADA

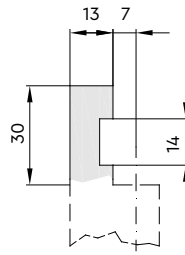
Punzoni/Punches



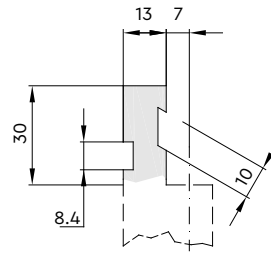
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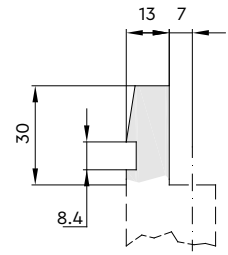
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ATT. EURO

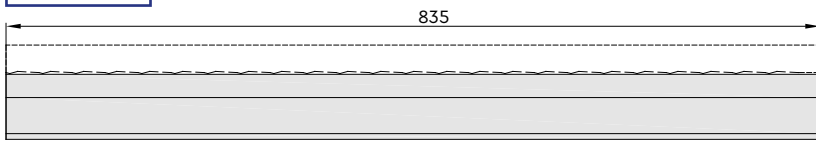


ATT. T

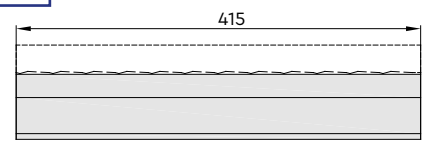


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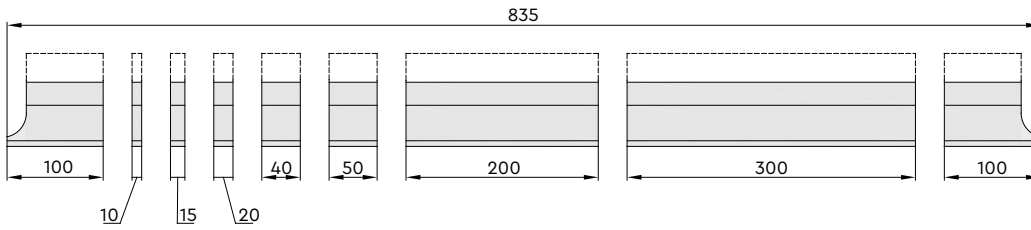
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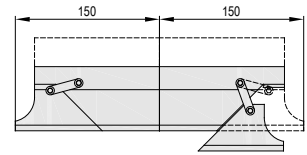
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835 FR/835 SECT.

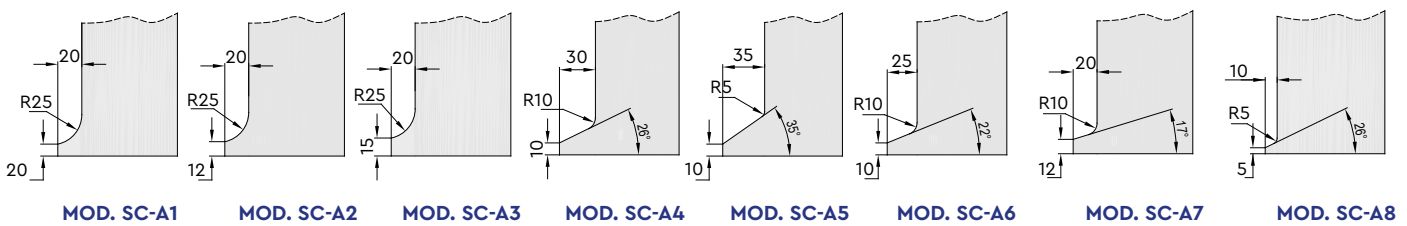


SCARPETTE MOBILI
MOVING HORNS



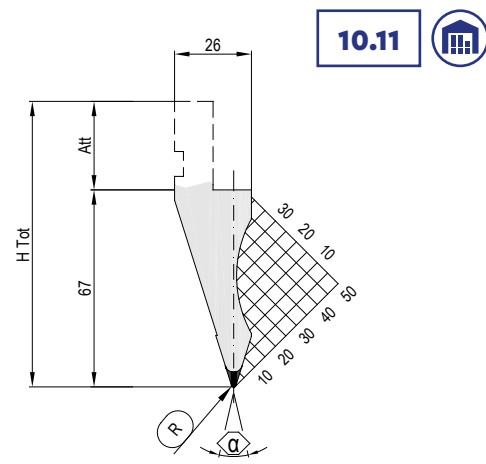
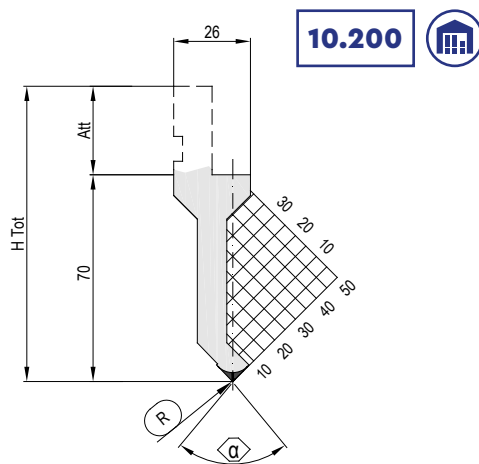
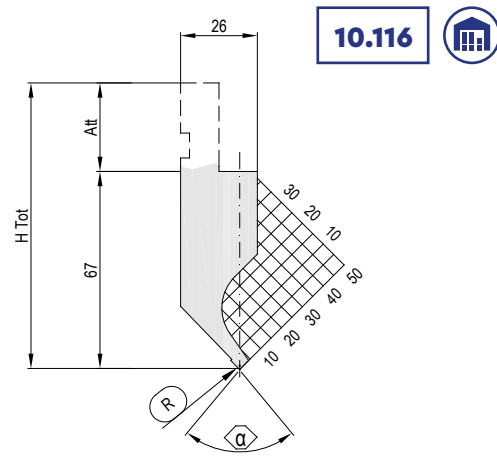
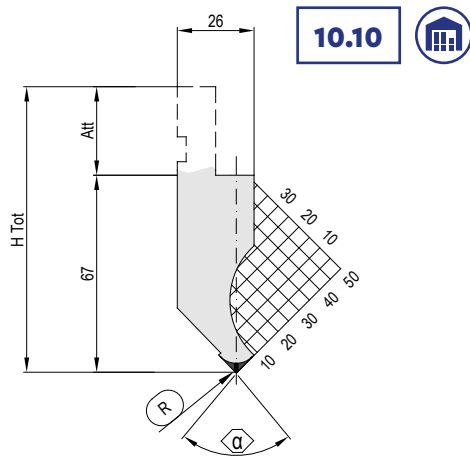
Disponibili per mod. 10.10
Available for mod.1010

SCARPETTE/HORNS



MATERIALE/MATERIAL

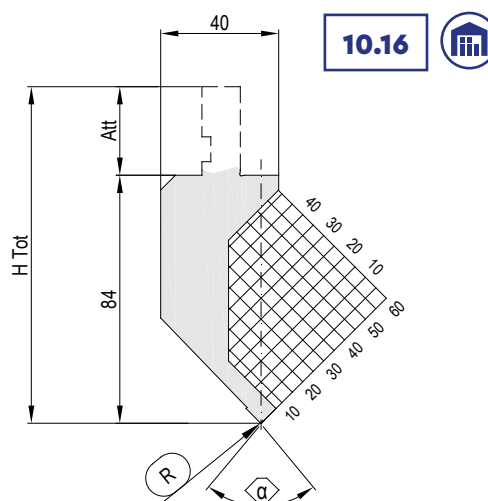
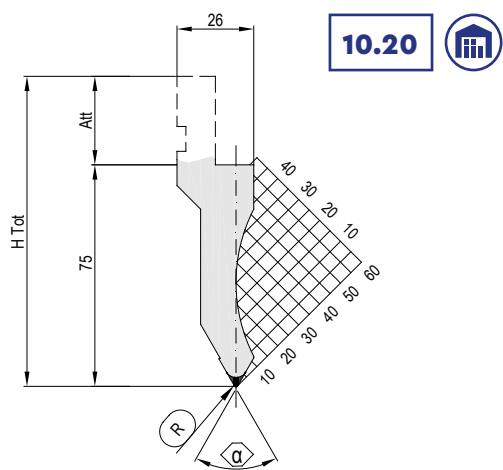
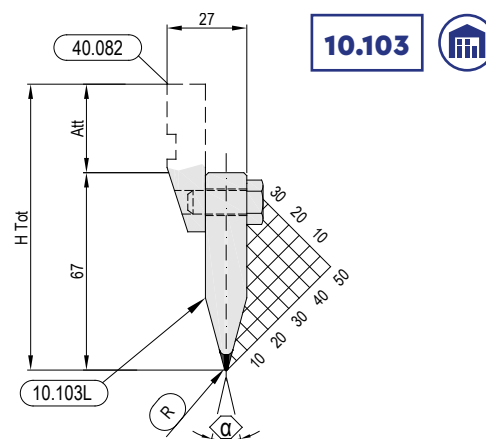
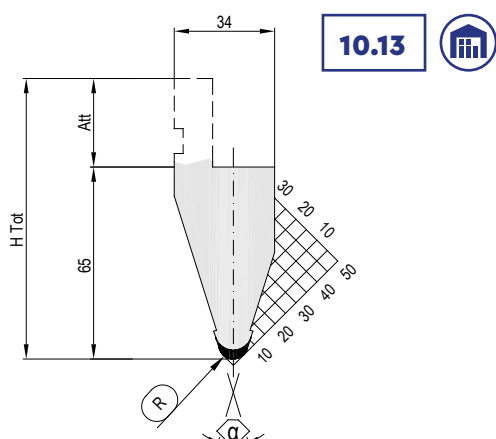
Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle α [°]	Raggio Radius R [mm]	Altezza Height H [mm]	Altezza tot Tot.Height H1 [mm]	Lunghezza Length L [mm]	Modello scarpetta Horn mod.	Peso Weight K [kg]	Forza Force F [KN/m]	Materiale Material
10.10	10.10/90°	B-G EURO T-FAST	90°	0.2	67	97	835 - 415 835 FR	SC-A1	12 - 6 12	1000	C45 ●
				0.8	66.7	96.7					
	10.10/88°		88°	0.2	67	97					
				0.8	66.7	96.7					
	10.10/85°		85°	2.0	65.7	95.7					
				0.8	66.6	96.6					
3.0	65.6	95.6									
10.116	10.116/90°	B-G EURO T-FAST	90°	0.2	67	97	835 - 415 835 FR	SC-A8	10 - 5 10	350	42CrMo4 ○
	88°										
10.200	10.201/90°	B-G EURO T-FAST	90°	0.2	70	100	835 - 415 835 FR	SC-A6	8 - 4 8	500	42CrMo4 ●
	10.200/88°		88°	0.2	70	100					
	10.200/88°			0.8	69.7	99.7					
10.11	10.11/45°	B-G EURO T-FAST	45°	1	65	95	835 - 415 835 FR	SC-A2	10 - 5 10	800	C45 ●
	10.11/35°		35°	0.8	67	97					

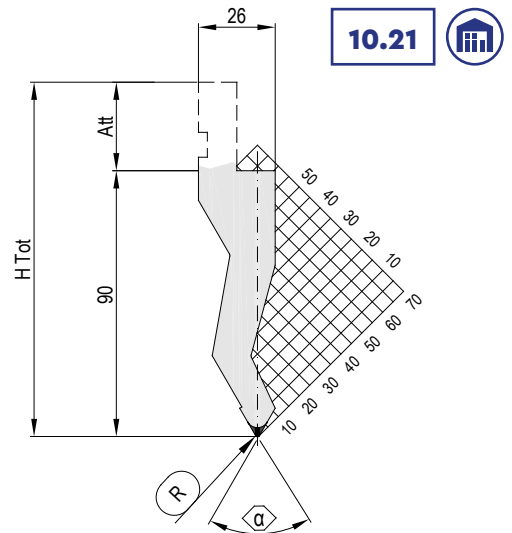
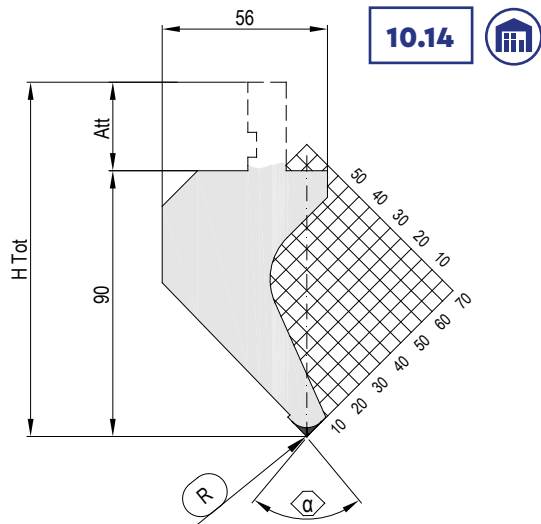
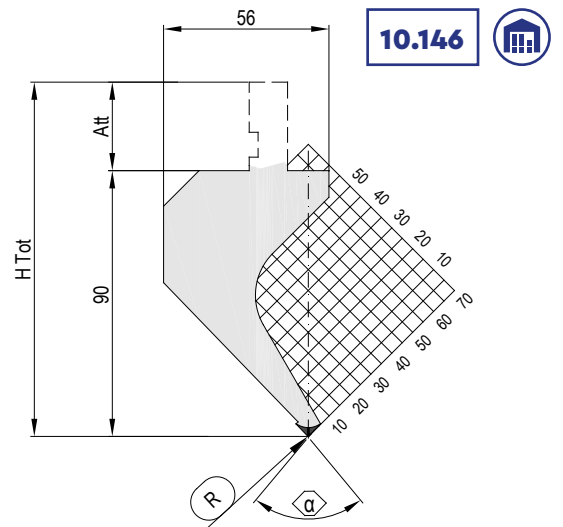
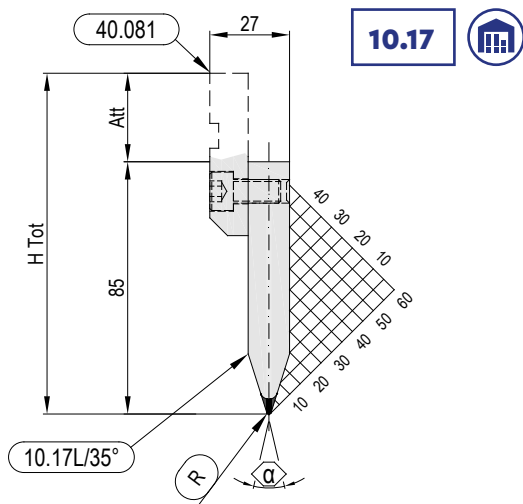
● temprato=induction hardened ○ bonificato=tempered

AMADA PUNZONI/PUNCHES



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [kN/m]	
10.13	10.13/60°	B-G EURO T-FAST	60°	6	65	95	835 - 415 835 FR	SC-A1	15.2-7.6-15.2	1000	C45 ●
	10.13/30°		35°	5	66.7	96.7			12 - 6 - 12		
10.103	10.103/30°	B-G EURO T-FAST	30°	0.8	67	97	835 - 415 835 FR	SC-A1	9 - 4.5 - 9	1000	C45 ●
10.20	10.20/60°	B-G EURO T-FAST	60°	0.8	75	105	835 - 415 835 FR	SC-A1	9.4 - 4.7 - 9.4	800	C45 ●
				2	73.8	103.8					
10.16	10.16/90°	B-G EURO T-FAST	90°	0.2	84	114	835 - 415 835 FR	SC-A1	6 - 3 - 6	200	42CrMo4 ○
	10.16/80°		88°								

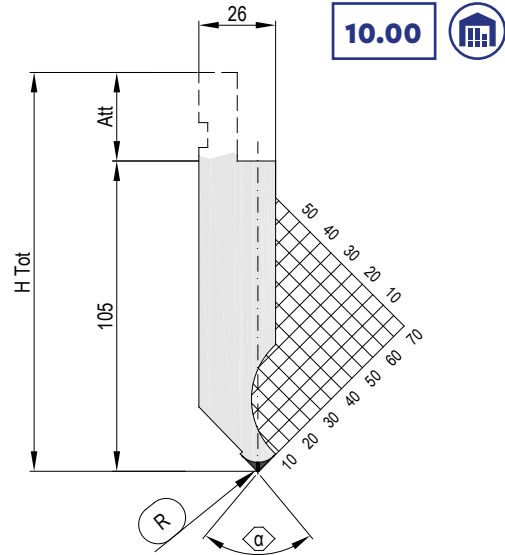
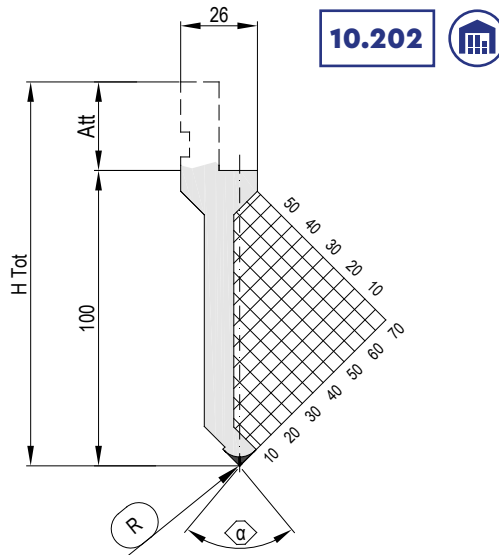
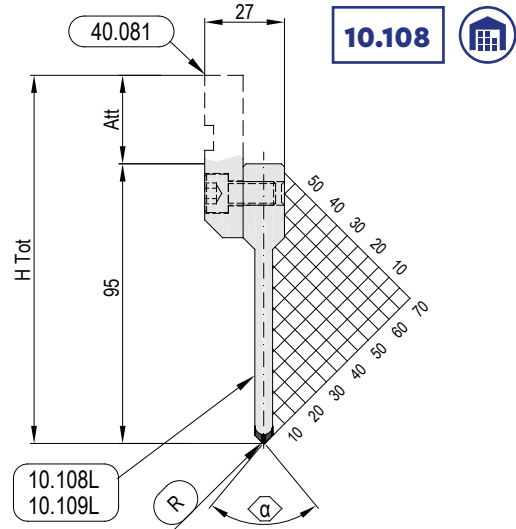
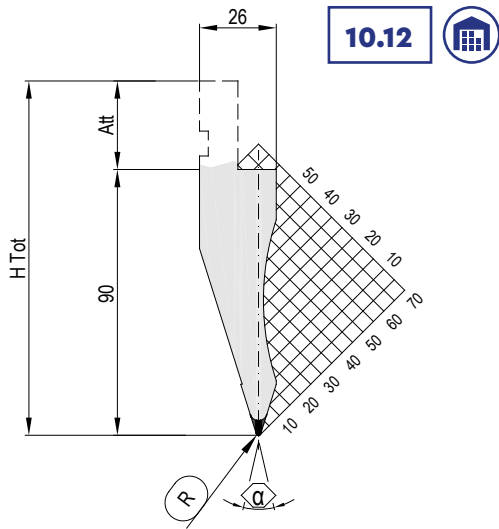
● temprato=induction hardened ○ bonificato=tempered



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Length	Modello scarpetta Horn mod.	Peso Weight K [kg]	Forza Force F [KN/m]	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]				
10.17	10.17/35°	B-G EURO T-FAST	35°	0.8	85	115	835 - 415 835 FR	SC-A1	6-3-6	1000	C45 ●
10.146	10.146/90°	B-G EURO T-FAST	90°	0.2	90	120	835 - 415 835 FR	SC-A4	20-10 20	600	42CrMo4 ●
	0.8			89.7	119.7						
	10.146/88°		88°	0.2	90	120					
				0.8	89.7	119.7					
10.14	10.14/90°	B-G EURO T-FAST	90°	0.2	90	120	835 - 415 835 FR	SC-A1	21-10.5 21	700	C45 ●
	0.8			89.7	119.7						
	10.14/88°		88°	0.2	90	120					
				0.8	89.7	119.7					
				3	88.7	118.7					
10.21	10.21/60°	B-G EURO T-FAST	60°	0.8	90	120	835 - 415 835 FR	SC-A1	11-5.5-11	600	C45 ●
				3	87.8	117.8					

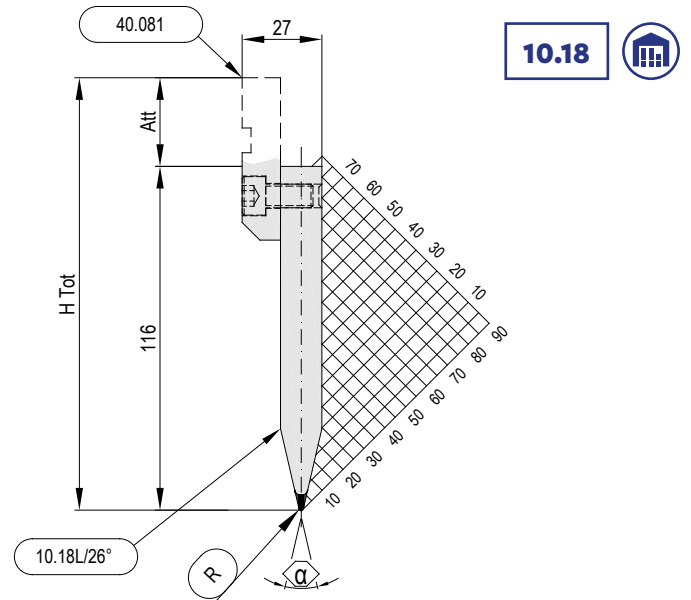
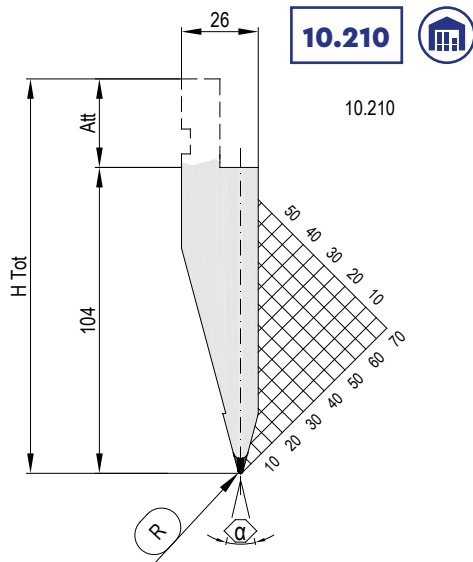
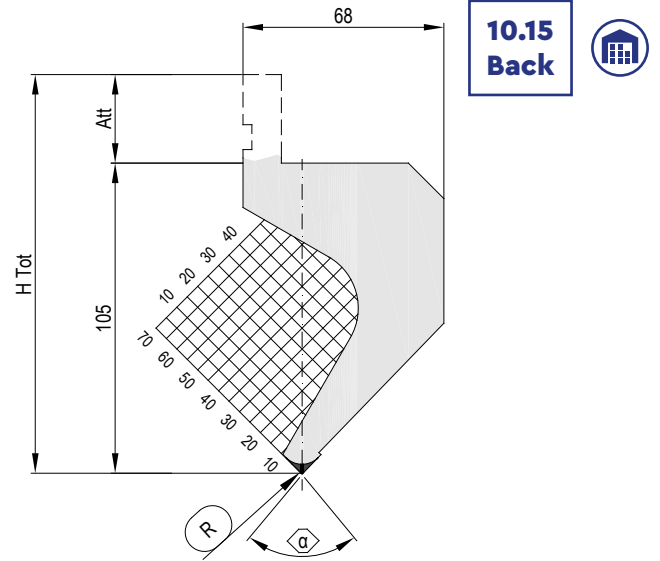
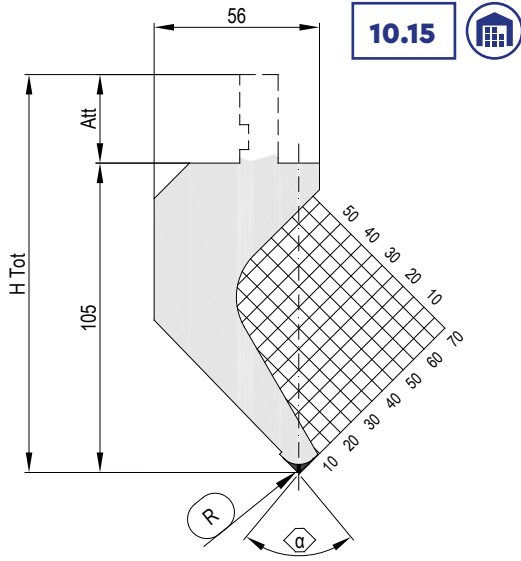
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AMADA PUNZONI/PUNCHES



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]					
10.12	10.12/30°	B-G EURO T-FAST	30°	0.8	90	120	835 - 415 835 FR	SC-A3	12 - 6 - 12	1000	C45 ●
	2			86.5	116.5						
	10.12/35°		35°	0.8	90	120					
				2	87.2	117.2					
			3	84.8	114.8						
10.108	10.108/90°	B-G EURO T-FAST	90°	0.2	95	125	835 - 415 835 FR	SC-A6	9.4 - 4.7 9.4	500	42CrMo4 ●
	88°		0.2								
10.202	10.203/90°	B-G EURO T-FAST	90°	0.2	100	130	835 - 415 835 FR	SC-A6	10 - 5 - 10	500	42CrMo4 ●
	10.202/88°			88°	0.2	99.7					
			0.8								
10.00	10.00/88°	B-G EURO T-FAST	88°	0.8	105	135	835 - 415 835 FR	SC-A1	18 - 9 - 18	1000	C45 ●
	10.00/85°		85°								

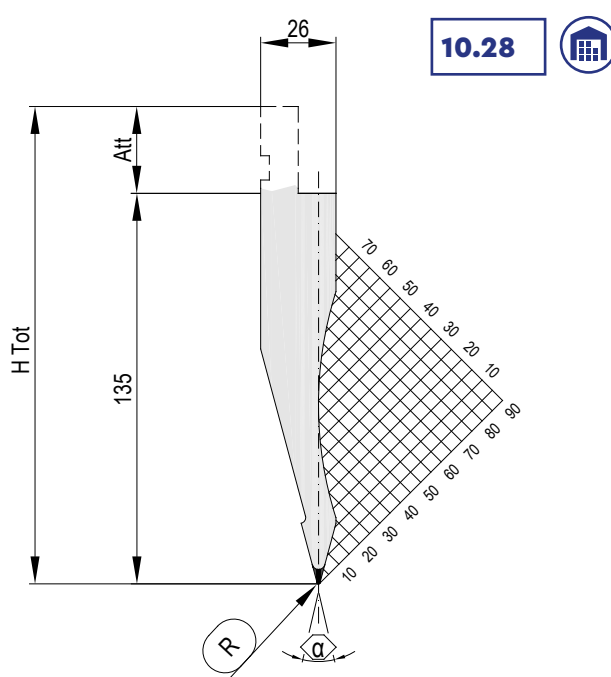
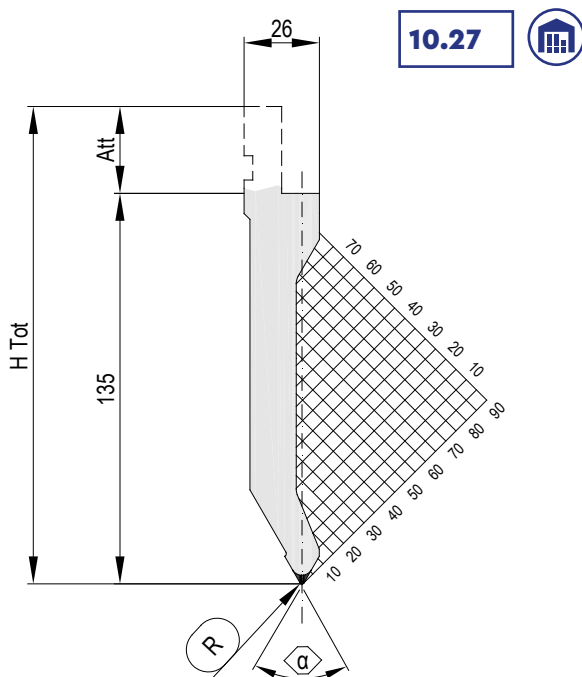
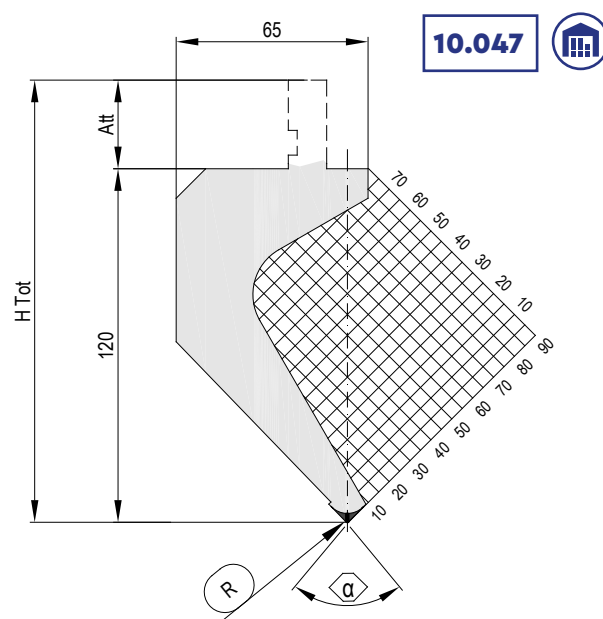
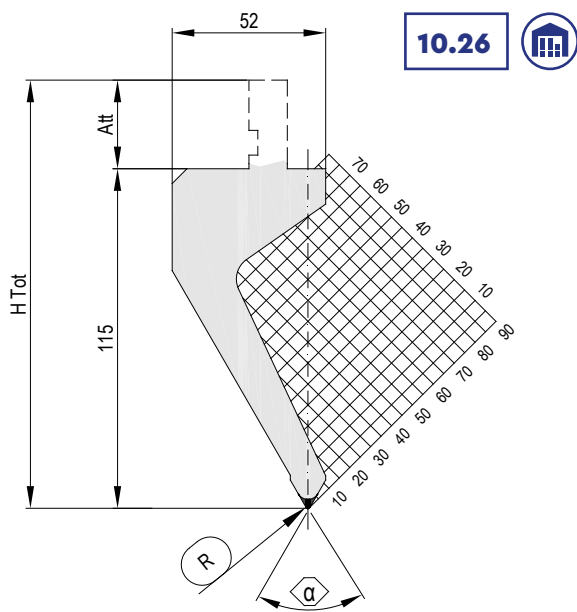
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Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [KN/m]	
10.15	10.15/90°	B-G EURO T-FAST	90°	0.2	105	135	835 - 415 835 FR	SC-A1	22 - 11 - 22	500	C45 ●
	0.8			104.7	134.7						
	10.15/88°		88°	0.2	105	135					
				0.8	104,7	134.7					
			3	103.7	133.7						
10.15 Back	10.15 Back/88°	B-G EURO T-FAST	88°	0.8	105	135	835 - 415 835 FR	SC-A1	25 - 12.5 25	500	C45 ●
10.210	10.210/30°	B-G EURO T-FAST	30°	0.8	104	134	835 - 415 835 FR	SC-A7	15 - 7.5 - 15	1000	C45 ●
				2	100.5	130.5					
				5	104	134					
	10.210/26°		26°	0.8	104	134					
10.18	10.18/26°	B-G EURO T-FAST	26°	0.8	117	147	835 - 415 835 FR	SC-A3	14.5 - 7 14.5	1000	C45 ●

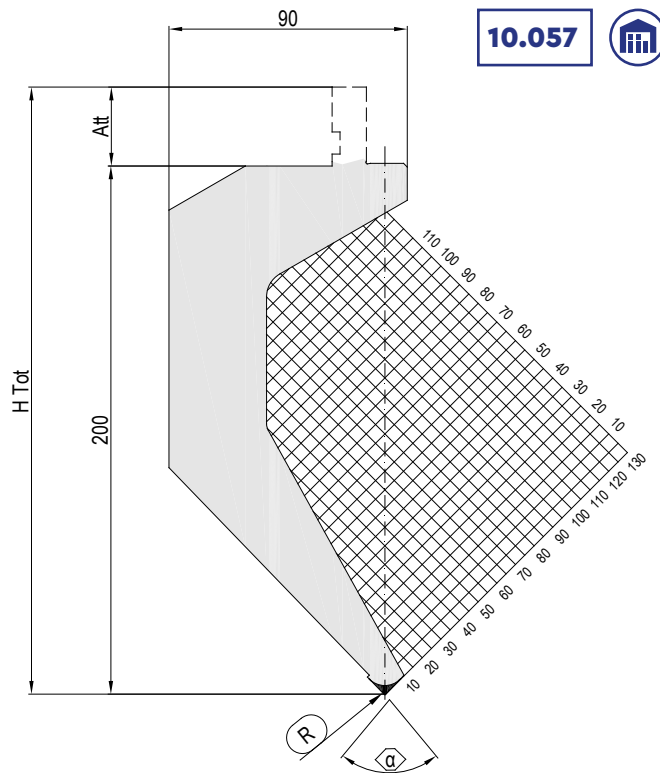
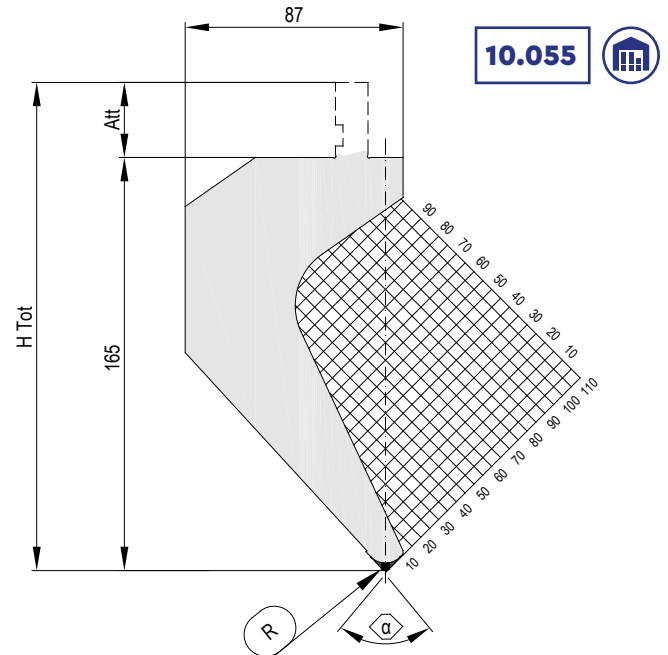
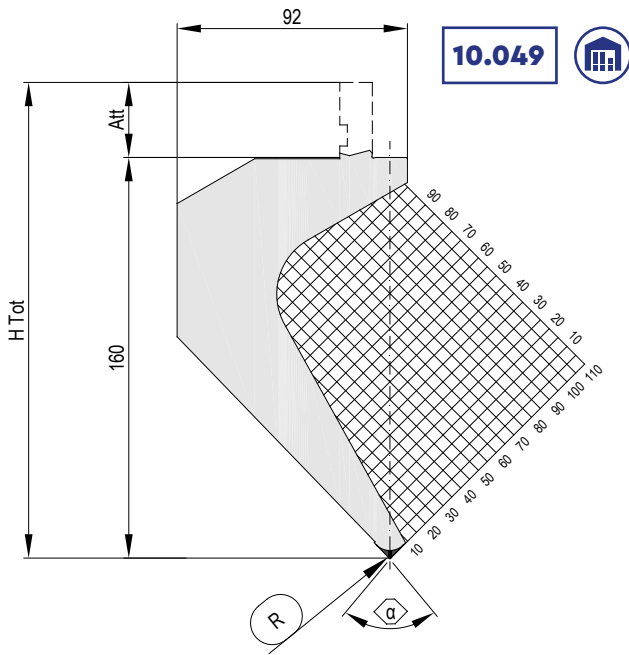
● temprato=induction hardened ○ bonificato=tempered

AMADA PUNZONI/PUNCHES



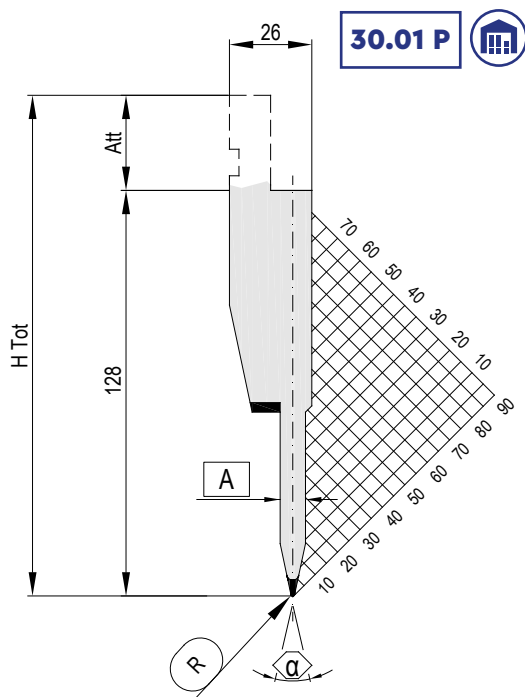
Fam.	Mod.	Tipo Attacco Att. type	Angolo	Raggio	Altezza	Altezza tot	Lunghezza	Modello scarpetta Horn mod.	Peso	Forza	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [kN/m]	
10.26	10.26/60°	B-G EURO T-FAST	60°	0.8	115	135	835 - 415 835 FR	SC-A1	19.2 - 9.6 19.2	400	C45 ●
10.047	10.047/88°	B-G EURO T-FAST	88°	0.2	120	150	835 - 415 835 FR	SC-A5	26 - 13.5 26	600	42CrMo4 ●
				0.8	119.7	149.7					
	10.047/90°	90°	0.2	120	150						
			0.8	119.7	149.7						
10.27	10.27/60°	B-G EURO T-FAST	60°	0.8	135	165	835 - 415 835 FR	SC-A1	17 - 8.5 17	700	C45 ●
10.28	10.28/30°	B-G EURO T-FAST	30°	0.5	135	165	835 - 415 835 FR	SC-A1	17.5 - 8.5 17.5	500	C45 ●

● temprato=induction hardened ○ bonificato=tempered



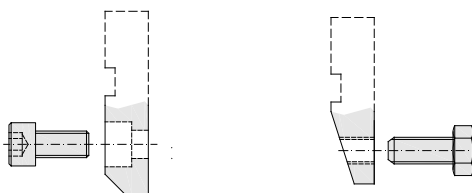
Fam.	Mod.	Tipo Attacco Att. type	Angolo	Raggio	Altezza	Altezza tot	Lunghezza	Modello scarpetta Horn mod.	Peso	Forza	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [kN/m]	
10.049	10.049/88°	B-G EURO T-FAST	88°	0.8	160	190	835 - 415 835 FR	SC-A5	44 - 22 44	600	C45 ●
10.055	10.055/85°	B-G EURO T-FAST	85°	2	165	195	835 - 415 835 FR	SC-A1	50 - 25 50	800	C45 ●
10.057	10.057/88°	B-G EURO T-FAST	88°	0.8	200	230	505-805FR	SC-A1	32,5 - 49	700	C45 ●

● temprato=induction hardened ○ bonificato=tempered



40.081

40.082

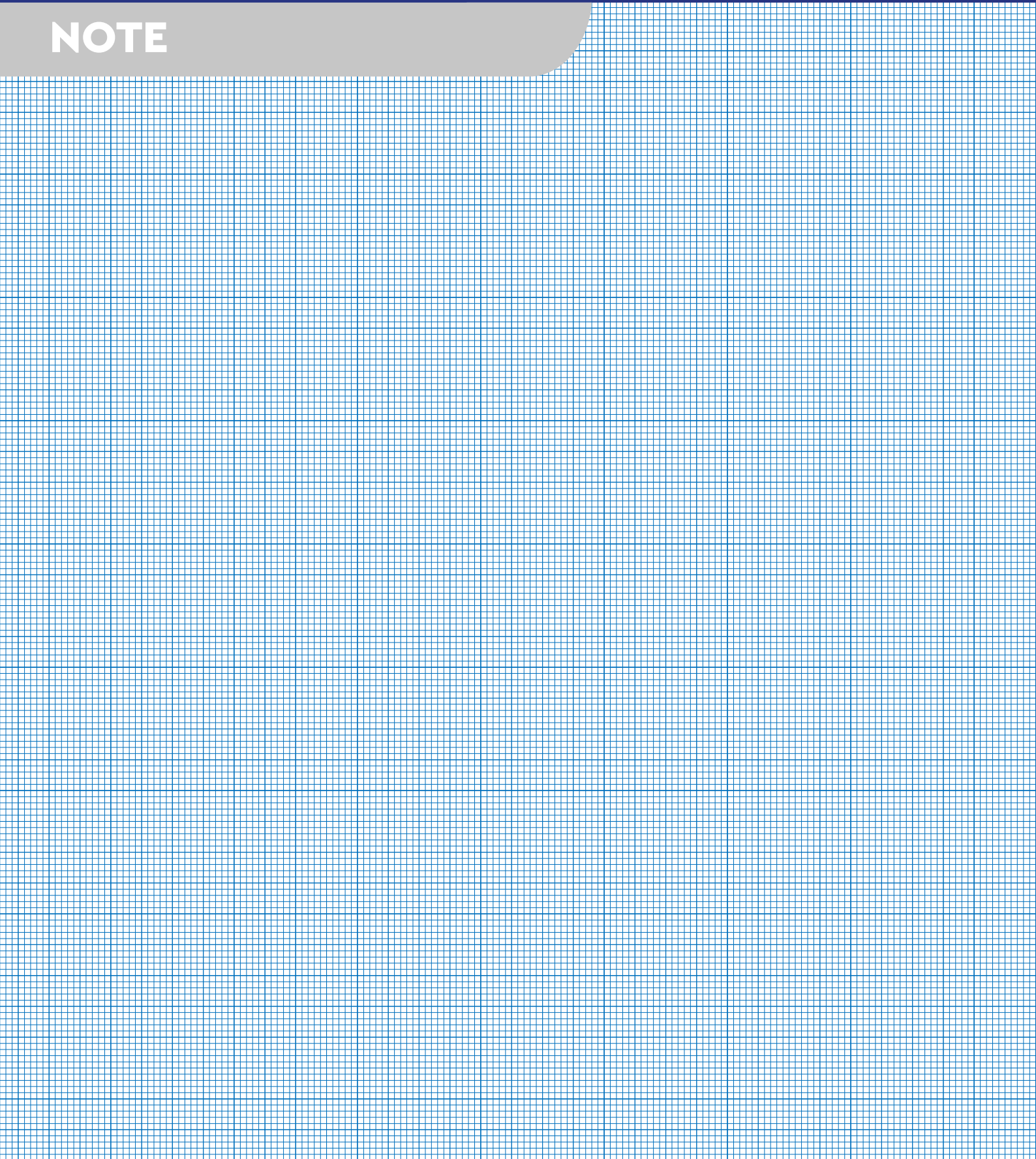


Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Spessore Thickness	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	A [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [KN/m]	
30.01 P	30.01 P8	B-G EURO T-FAST	24°	0.6	8	128	158	835 - 415	SC-A3	18-9	800	C45 ●
	30.01 P10				10							
	30.01 P12				12							

● temprato=induction hardened ○ bonificato=tempered



NOTE

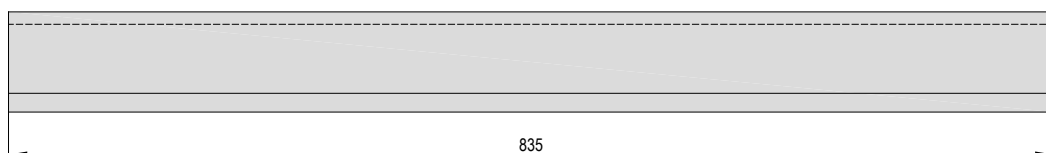




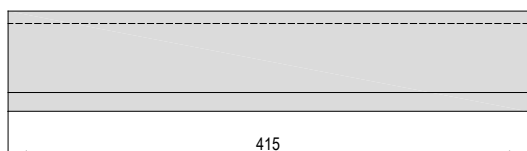
AMADA
Matrici/Dies



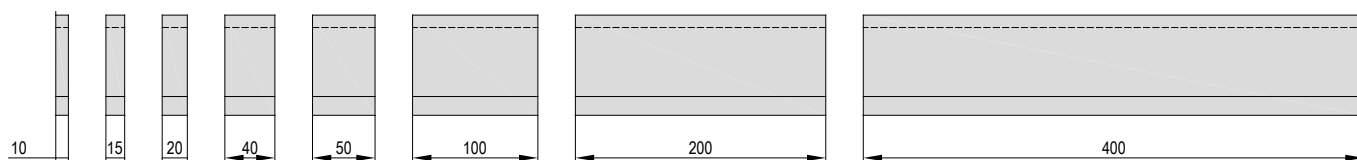
835



415



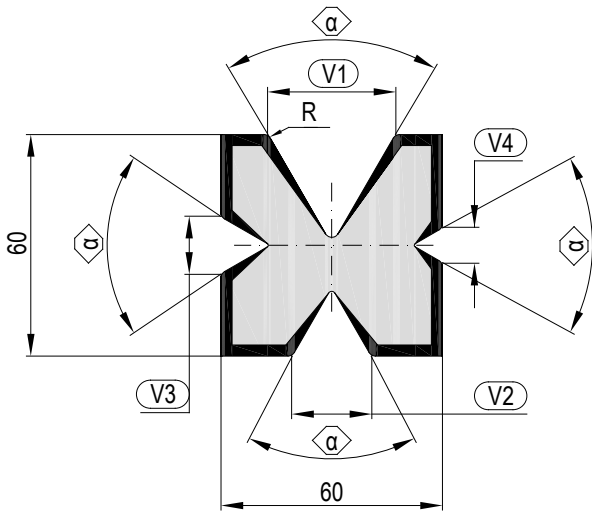
835 FR/835 SECT.



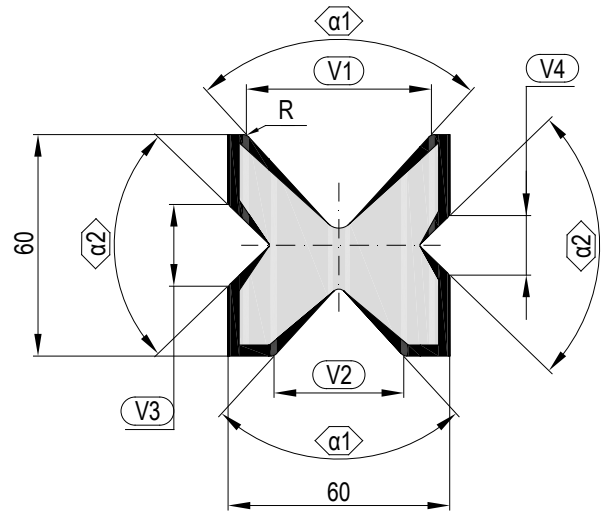
MATERIALE/MATERIAL

Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55

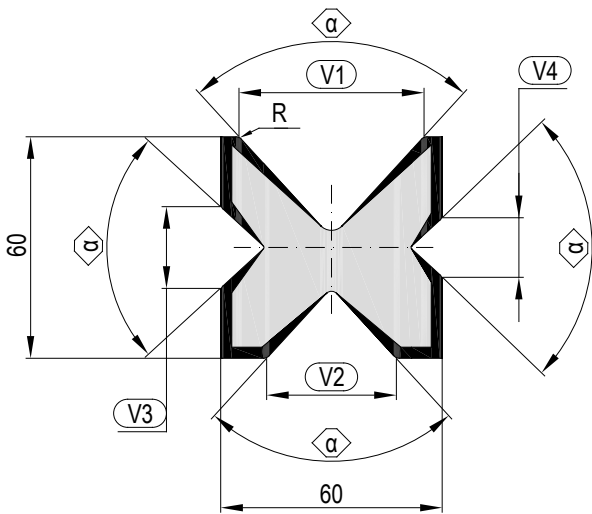
20.09/60°



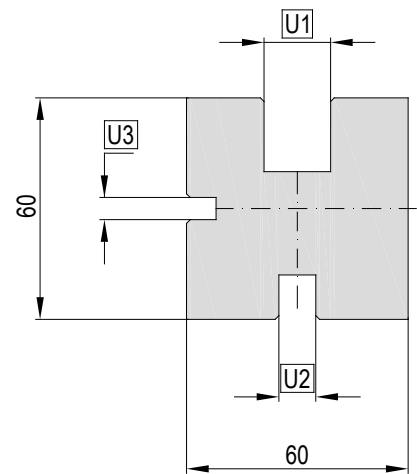
20.09



20.09/85°

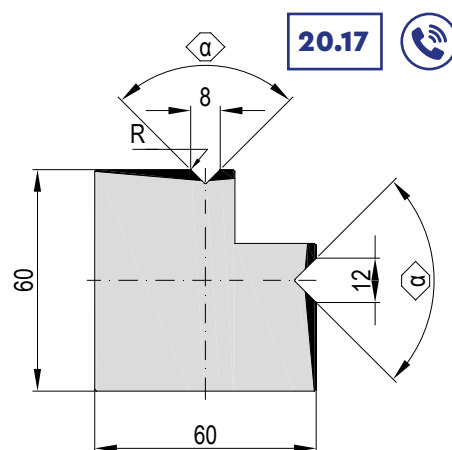
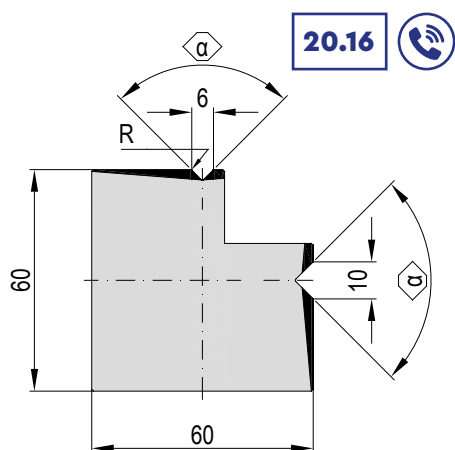


20.08



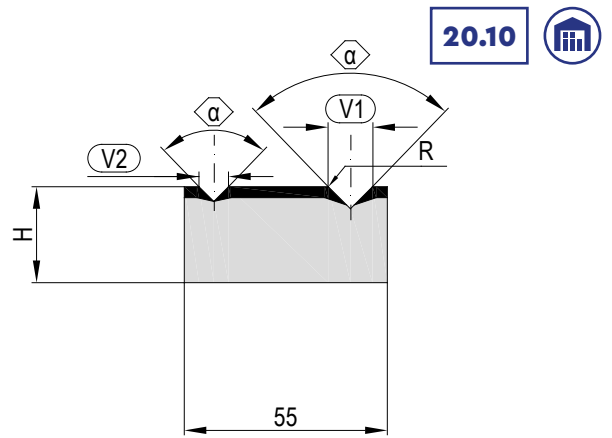
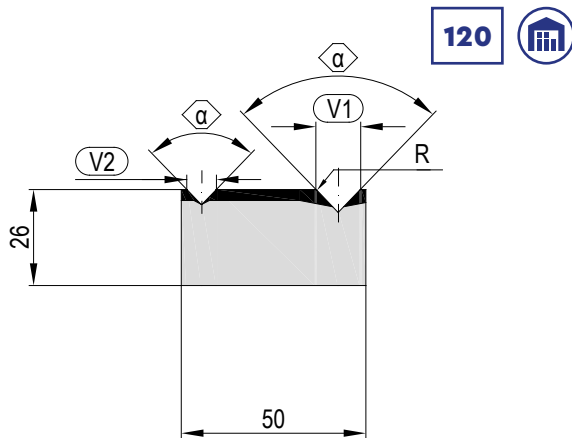
Fam.	Mod.	Cava Groove N°	Angolo Angle α [°]	Apertura Opening V o U [mm]	Raggio Radius R	Altezza Height H [mm]	Larghezza Width W [mm]	Lunghezza Length L [mm]	Peso Weight K [kg]	Forza Force F [KN/m]	Materiale Material
20.09/60°	20.09/60°	1	60°	35	3	60	60	835 - 415 835 FR	18 - 9 18	800	C45 ●
		2		22	2.5						
		3		16	2						
		4		10	1.5						
20.09	20.09	1	88°	50	2	60	60	835 - 415 835 FR	16 - 8 16	800	C45 ●
		2	35								
		3	22								
		4	16								
20.09/85°	20.09/85°	1	85°	50	2	60	60	835 - 415 835 FR	16 - 8 16	800	C45 ●
		2		35							
		3		22							
		4		16							
20.08	20.08	1		U18		60	60	835 - 415 835 FR	22 - 11 22	800	42CrMo4 ○
		2	U10								
		3	U6								

● temprato=induction hardened ○ bonificato=tempered



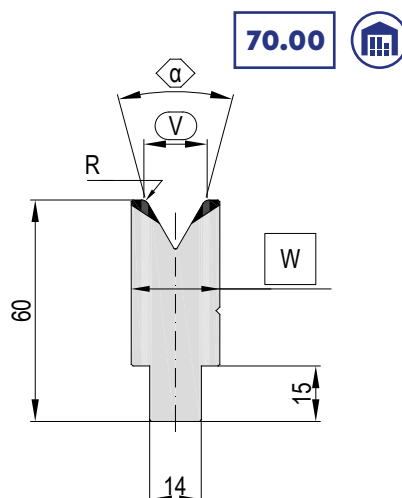
Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
20.16	20.16/90°	1	90°	6	1	60	60	835 - 415 835 FR	24 - 12 24	800	C45 ●
		2		10							
	20.16/88°	1	88°	6							
		2		10							
20.17	20.17/90°	1	90°	8	1	60	60	835 - 415 835 FR	24 - 12 24	800	C45 ●
		2		12							
	20.17/88°	1	88°	8							
		2		12							

● temprato=induction hardened ○ bonificato=tempered



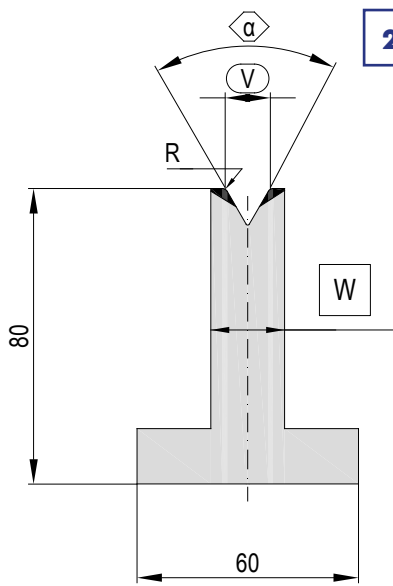
Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material	
		N°	α [°]	V [mm]	R	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]		
120	121/90°	1	90°	7	0.5	26	50	835 - 415 835 FR	10-5	600	C45 ●	
		2		4								
	123/90°	1		10	0.6					800		
		2		6								
	124/90°	1	12	0.5	600							
		2	8						800			
	121/88°	1	88°	7	0.5					600		
		2		4								
	123/88°	1		10	0.5				600			
		2		6						800		
	124/88°	1		12	0.5				800			
		2		8								
	125/88°	1		18	0.5				1000			
		2		14								
126/88°	1	20	0.5	1000								
	2	12										
127/88°	1	25	0.8	1000								
	2	16										
20.10	20.12/90°	1	90°	10	0.5	26	55	835 - 415 835 FR	9-4.5	1000	C45 ●	
		2		6	0.6							
	20.13/90°	1		12	0.5							700
		2		5	0.8							
	20.12/88°	1	88°	10	0.5				700			
		2		6	0.6							
	20.13/88°	1		12	0.5				700			
		2		5	0.8							
	20.14/88°	1		20	2.5				700			
		2		12	3							
	20.15/88°	1		25	2.75				700			
		2		16	3							
	20.12/60°	1	60°	10	0.5				700			
		2		6	1							
	20.13/60°	1		12	0.8				700			
		2		8	1.5							
	20.14/60°	1		20	1.5				700			
		2		12	2							
20.15/60°	1	25		2	700							
	2	16		2.5								
20.12/35°	1	35°		10	1	700						
	2			6	1							
20.13/35°	1			12	1	700						
	2			8	1.5							

● temprato=induction hardened ○ bonificato=tempered

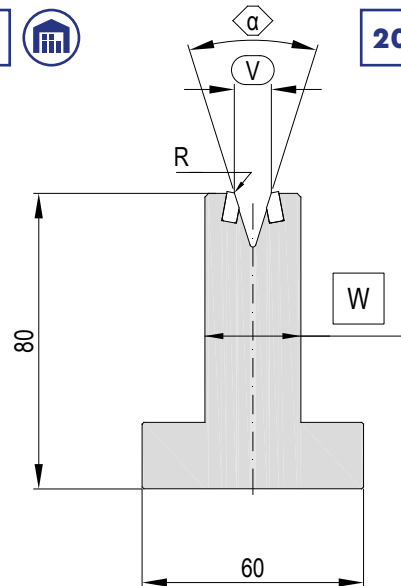


Fam.	Mod.	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material		
		α [°]	V o U [mm]	R	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]			
70.00	70.90	90°	6	1.5	60	14	835 - 415 835 FR	5.5 - 3 - 5.5	1000	C45 ●		
	71.90		8			15						
	73.90		10	2								
	75.90		12	2.5								
	70.88	88*	6	1.5		14					6 - 3 - 6	
	71.88		8			14						
	72.88		10	2		15						
	74.88		12	17								
	76.88		14	2.5		18						7 - 3.5 - 7
	77.88		16			24						8 - 4 - 8
	78.88		18	28		10 - 5 - 10						
	79.88		20	3		30					12 - 6 - 12	
	80.88		25			35						
	70.60		60°	6		0.5		15	6 - 3 - 6			
	71.60	8		16								
	73.60	10		1		18						
	75.60	12		1.5		24						
	77.60	16		2		28		8 - 4 - 8				
	78.60	18				30		10 - 5 - 10				
	79.60	20		38		12 - 6 - 12						
	80.60	25		3		16		6 - 3 - 6				
	70.45	45°	6	0.8		16		6 - 3 - 6				
	71.45		8			18						
	73.45		10	1		20						
	75.45		12	24								
	77.45		16	1.5		28			8 - 4 - 8			
	79.45		20	2		32			9 - 4.5 - 9			
	80.45		25	2.5		40			10 - 5 - 10			
	70.35		35°	6		1			16		6 - 3 - 6	
	71.35	8		18								
73.35	10	20										
75.35	12	1.5		24								
77.35	16	2		30								
79.35	20			35	8 - 4 - 8							

● temprato=induction hardened ○ bonificato=tempered



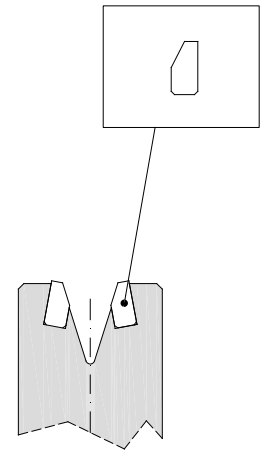
20.40 H80



20.30



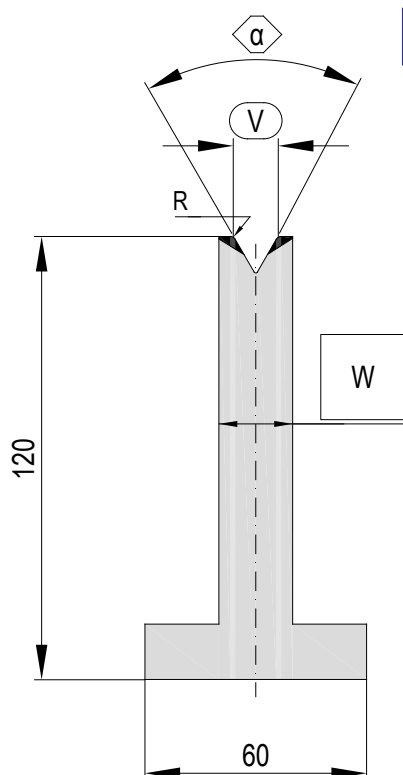
20.30 T



Fam.	Mod.	Angolo	Apertura	Raggio	Altezza	Larghezza	Lunghezza	Peso	Forza	Materiale							
		Angle	Opening	Radius	Height	Width	Length	Weight	Force								
		α [°]	V o U [mm]	R	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]								
20.40 H80	20.41/90°	90°	6	0.5	80	14	835 - 415 835 FR	12 - 6 - 12	1000	C45 ●							
	20.42/90°		8								18	13 - 6.5 - 13					
	20.43/90°		10										14	12 - 6 - 12			
	20.44/90°		12								18	13 - 6.5 - 13					
	20.41/88°	88°	6	0.5		14		12 - 6 - 12									
	20.42/88°		8								18	13 - 6.5 - 13					
	20.43/88°		10			24		14 - 7 - 14									
	20.44/88°		12								18	13 - 6.5 - 13					
	20.45/88°	16	2.5	30		15 - 7.5 - 15											
	20.46/88°	20						30			15 - 7.5 - 15						
	20.47/85°	85°	25	3		35		17 - 8.5 - 17									
	20.41/60°	60°	6						0.5		14	835 - 415 835 FR	14 - 7 - 14	600			
	20.42/60°		8	18		15 - 7.5 - 15											
	20.43/60°		10					20							700		
	20.44/60°		12											26		16 - 8 - 16	
	20.45/60°		16	30		18 - 9 - 18											
	20.46/60°		20					30							18 - 9 - 18		
	20.41/35°	35°	6					1	16		835 - 415 835 FR	15 - 7.5 - 15	500				
	20.42/35°		8	20		16 - 8 - 16											
	20.43/35°		10											24	17 - 8.5 - 17		
20.44/35°	12		30		19 - 9.5 - 19												
20.45/35°	16						35			19 - 9.5 - 19							
20.46/35°	20															35	19 - 9.5 - 19
20.30	20.30/35°	35°						5	1		80	835 - 415 835 FR	14.5 - 7 - 14.5			300	C45 + Insetto in Nylon + Nylon insert
	20.32/35°			8		24		15 - 7.5 - 15									
	20.33/35°			10										26	16 - 8 - 16		
	20.34/35°		12	28	17 - 8.5 - 17												
	20.35/35°		16				33			19 - 9.5 - 19							
	20.36/35°		20														

● temprato=induction hardened ○ bonificato=tempered

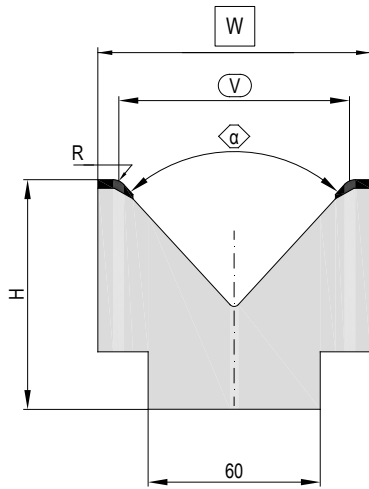
20.40 H120



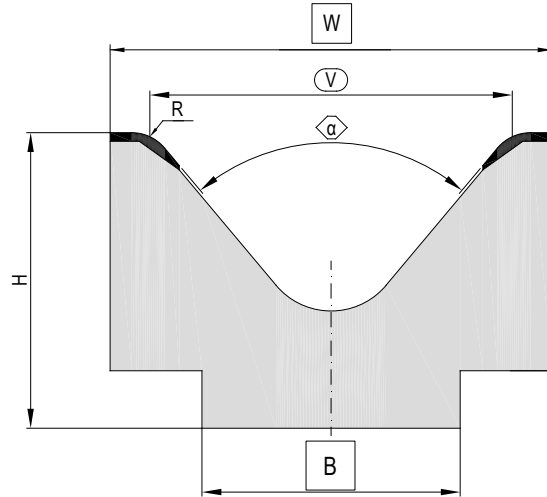
Fam.	Mod.	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material	
		α [°]	V o U [mm]	R	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]		
20.40 H120	20.41/90°	90°	6	0.5	120	14	835 - 415 835 FR	16 - 8 - 16	1000	C45 ●	
	20.42/90°		8					18			18 - 9 - 18
	20.43/90°		10	0.5							14
	20.44/90°		12					18			18 - 9 - 18
	20.41/88°	88°	6	0.5		14		16 - 8 - 16			
	20.42/88°		8			18		16 - 8 - 16			
	20.43/88°		10	0.6				18	18 - 9 - 18		
	20.44/88°		12	0.8		24		22 - 11 - 22			
	20.45/88°		16	2.5		30		23 - 11.5 - 23			
	20.46/88°		20	3		35		26 - 13 - 26			
	20.47/85°	25	14			22 - 11 - 22					
	20.41/60°	60°	6	0.5		14		22 - 11 - 22			
	20.42/60°		8	0.8		16		700			
	20.43/60°		10	1		18			23 - 11.5 - 23		
	20.44/60°		12	1.5		20		24 - 12 - 24			
	20.45/60°		16	2		26		27 - 13.5 - 27			
	20.46/60°		20			30		23 - 11.5 - 23			
	20.41/30°	30°	6	0.6		14		400			
	20.42/30°		8	0.8		18			24 - 12 - 24		
	20.43/30°		10	1		24		500			
20.44/30°	12		1.5	24	24 - 12.5 - 24						
20.45/30°	16		2	30	25 - 13 - 25						
20.46/30°	20		2.5	35	27 - 14 - 27						
20.47/30°	25		3	40	31.5 - 15.5 - 31.5						

● temprato=induction hardened ○ bonificato=tempered

20.11 B60



20.11 B90

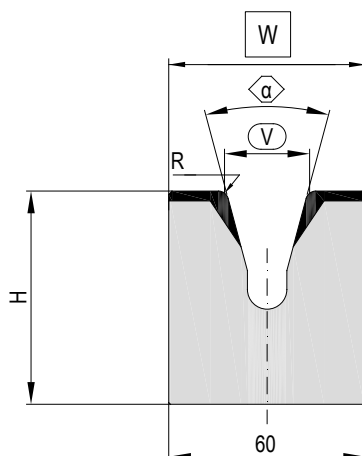


Fam.	Mod.	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Larghezza base Base width	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material
		α [°]	V o U [mm]	R	H [mm]	W [mm]	B [mm]	L [mm]	K [kg]	F [KN/m]	
20.11 B60	20.11/32	85°	32	4	60	60	60	835 - 415 835 FR	22 - 11 - 22	1000	C45 ●
	20.11/40		40	4							
	20.11/50		50	4							
	20.11/63		63	5	75	80			29 - 14.5 - 29		
	20.11/80		80	5	80	95			35 - 17.5 - 35		
	20.11/100		100	8	95	115			46 - 23 - 46	1200	
20.11 B90	20.11/125	80°	125	15	103	154	90/60*	835 - 415 835 FR	70 - 35 - 70	1200	C45 ●
	20.11/160		160		130	185			106 - 53 - 106		

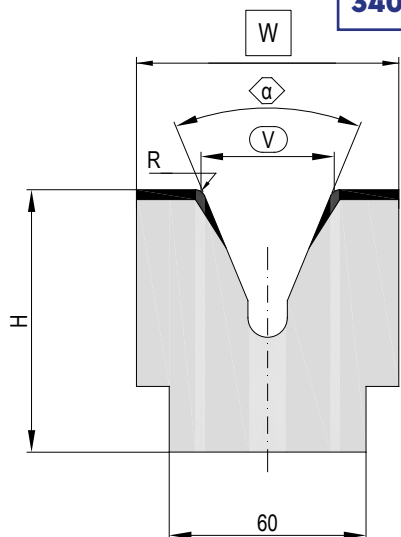
● temprato=induction hardened ○ bonificato=tempered

*: disponibile su richiesta / available upon request

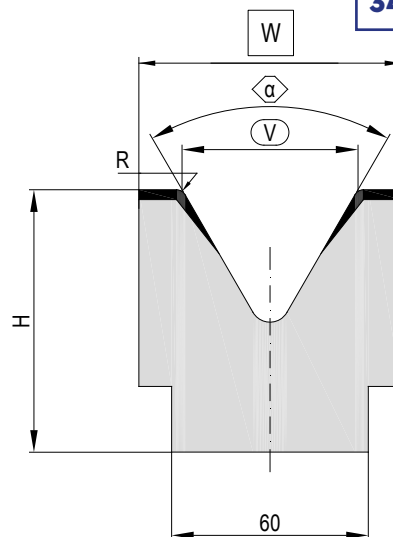
340/30°



340/45°



340/60°



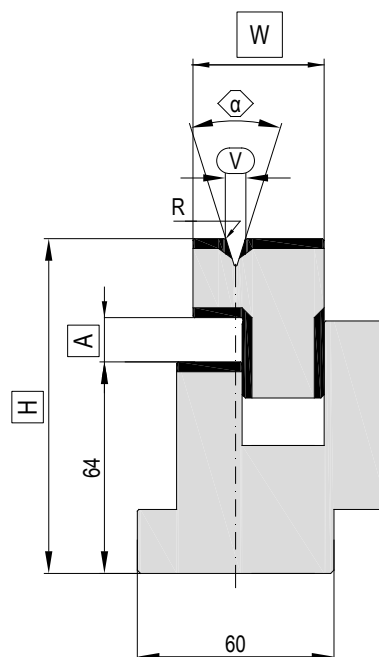
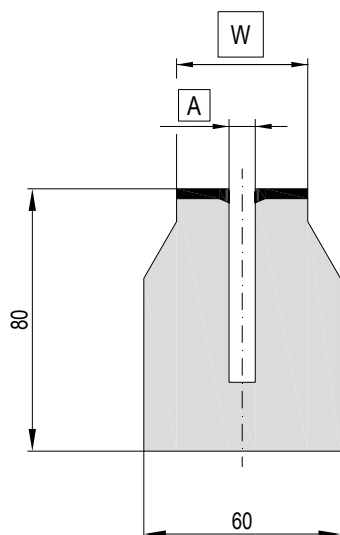
Fam.	Mod.	Angolo	Apertura	Raggio	Altezza	Larghezza	Lunghezza	Peso	Forza	Materiale
		Angle	Opening	Radius	Height	Width	Length	Weight	Force	
		α [°]	V o U [mm]	R	H [mm]	W [mm]	L [mm]	K [kg]	F [kN/m]	
340/30°	340	30°	18	3	60	60	835 - 415 835 FR	20 - 10 - 20	1000	C45 ●
	341		25		65			22 - 11 - 22		
340/45°	342	45°	32	3	60	60	835 - 415 835 FR	20 - 10 - 20	1000	C45 ●
	343		40		80			30 - 15 - 30		
	344		50	4	80	85		28 - 14 - 28		
340/60°	345	60°	63	5	86	86	835 - 415 835 FR	34 - 17 - 34	1000	C45 ●
	346		80	6	110	115		60 - 30 - 60		

● temprato=induction hardened ○ bonificato=tempered

30.01 M



30.01/6-8

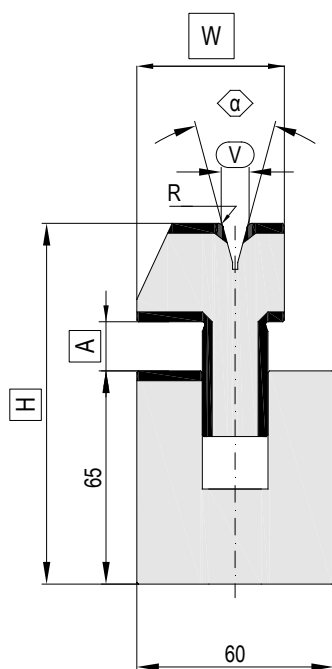


Fam.	Mod.	Sede Groove	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		A [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
30.01 M	30.01 M8	8.1	80	40	835 - 415 835 FR	28 - 14 - 28	500	C45 ●
	30.01 M10	10.1		44				
	30.01 M12	12.1		46				

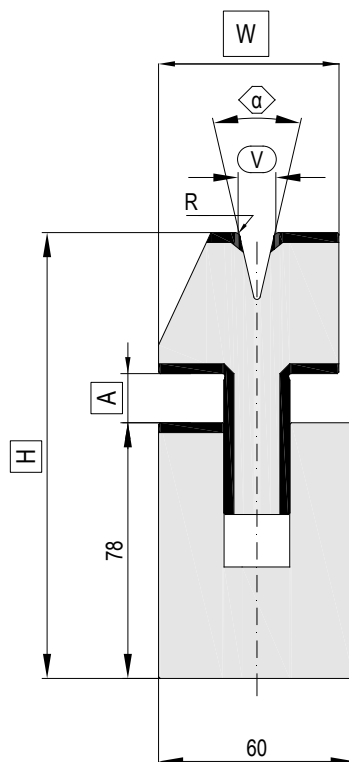
Fam.	Mod.	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Corsa Stroke	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		α [°]	V o U [mm]	R	H [mm]	A [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
30.01/6-8	30.01/6-35°	35°	6	1	102	13.5	40	835 - 415	35 - 17.5	600	C45 ●
	30.01/8-35°		8								

● temprato=induction hardened ○ bonificato=tempered

30.02/6-8



30.01/10-12



PNEUMATICO/PNEUMATIC KIT 30.01/30.02

L'intera gamma dei modelli 30.01 e 30.02, su richiesta è disponibile con azionamento pneumatico, manuale o con elettrovalvola comandata dal cnc della pressa.

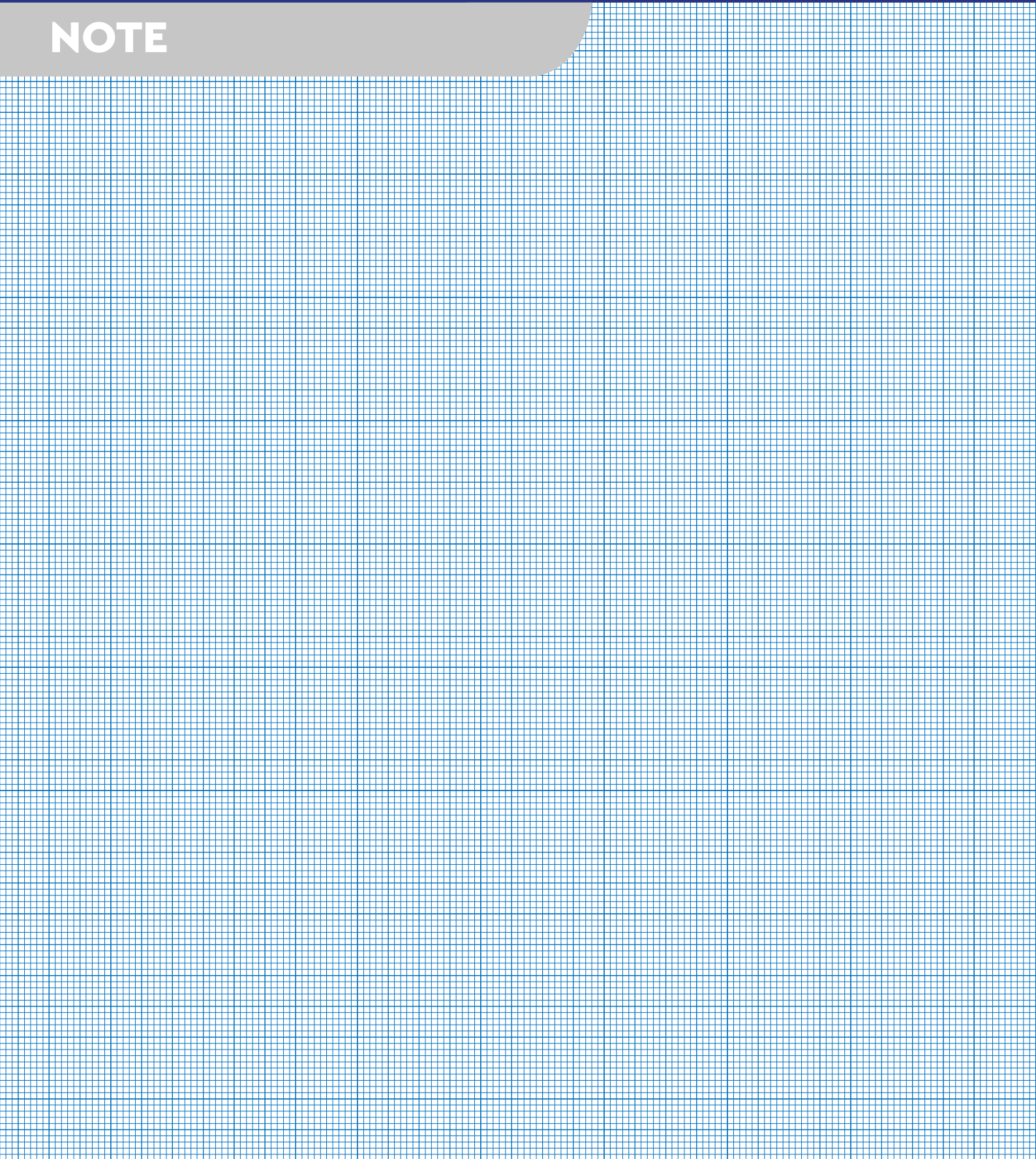
On request, the whole range of mod. 30.01 and 30.02 is available with pneumatic drive, manual drive or whit solenoid valve controlled by the cnc of the press-brake.

Fam.	Mod.	Angolo	Apertura	Raggio	Altezza	Corsa	Larghezza	Lunghezza	Peso	Forza	Materiale
		Angle	Opening	Radius	Height	Stroke	Width	Lenght	Weight	Force	
		α [°]	V o U [mm]	R	H [mm]	A [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
30.02/ 6-8	30.02/ 6-35°	35°	6	1	105	15	35	835 - 415	40 - 20	800	C45 ●
	30.02/ 8-30°	30°	8	1.5	110		45				
30.01/ 10-12	30.01/ 10-35°	35°	10	1.5	136	15	55	835 - 415	42 - 21	1000	C45 ●
	30.01/ 12-35°		12								
	30.01/ 10-26°	26°	10								
	30.01/ 12-26°		12								

● temprato=induction hardened ○ bonificato=tempered



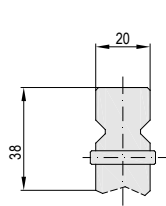
NOTE



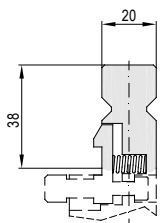


LVD

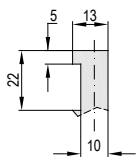
Punzoni/Punches



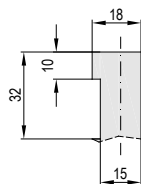
ATT. W



ATT. W-SK

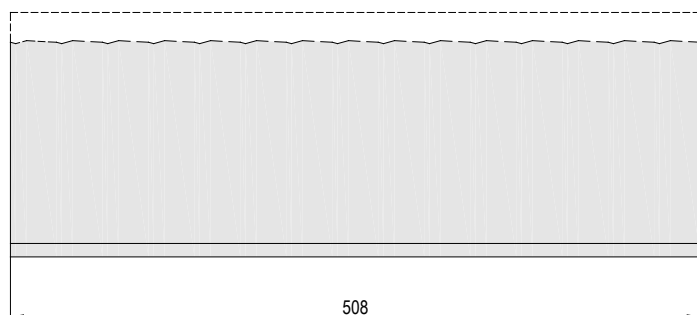


ATT. 10

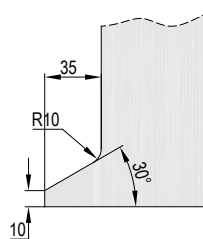


ATT. 15

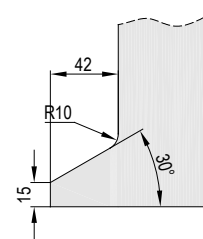
508



SCARPETTE/HORNS

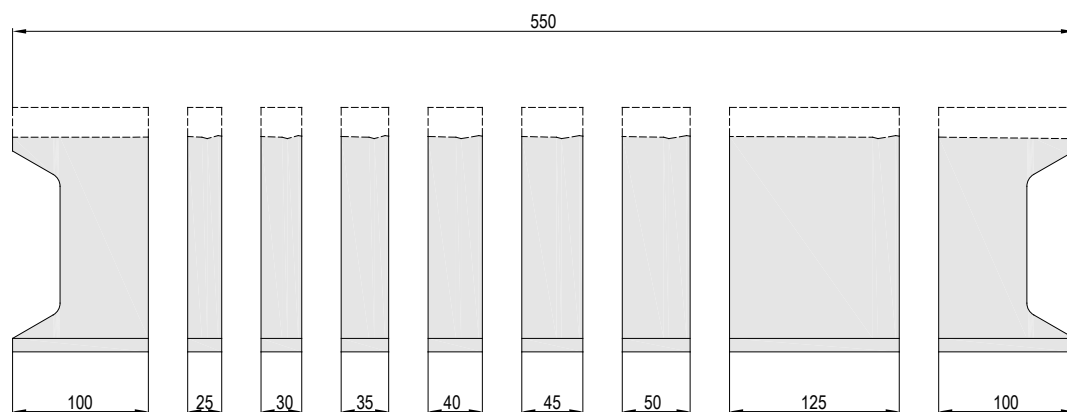


MOD. SC-L1



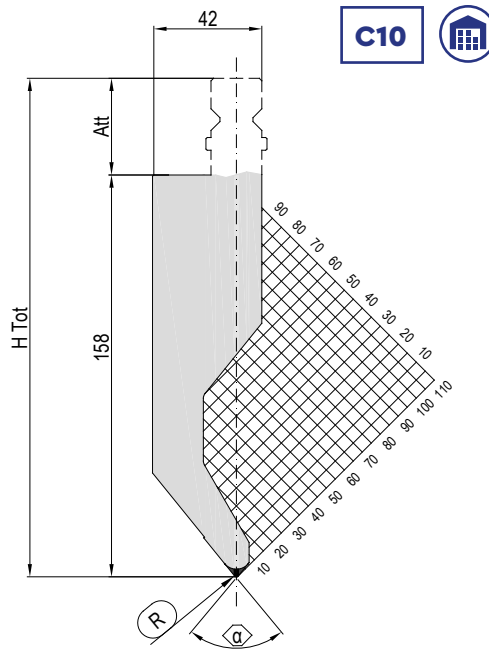
MOD. SC-L2

550 FR/550 SECT.

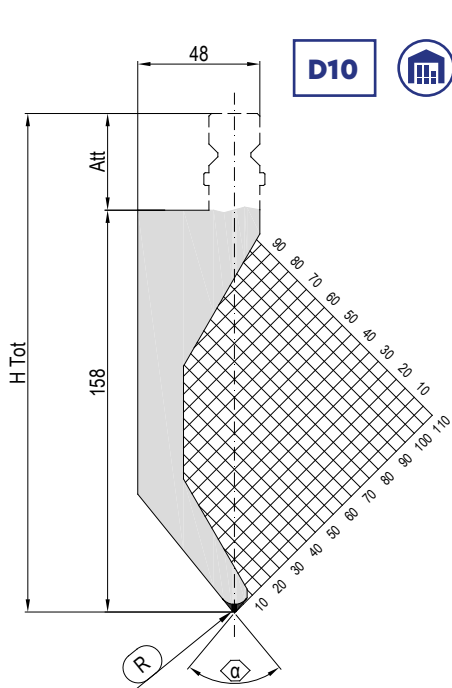


MATERIALE/MATERIAL

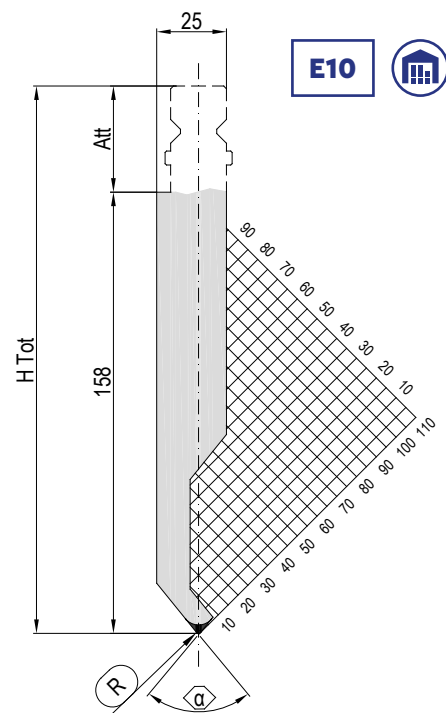
Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55



C10



D10

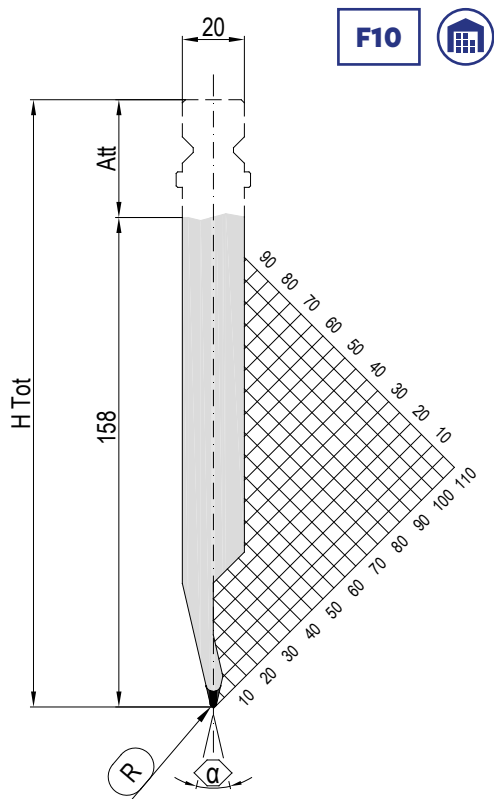


E10

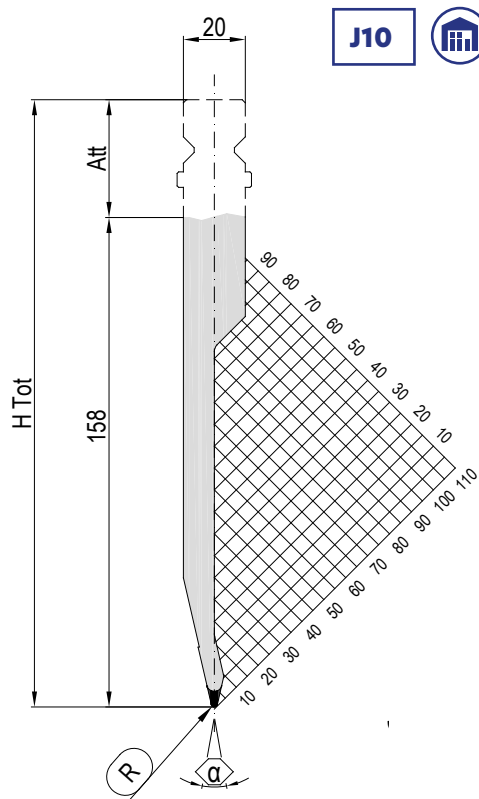
Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [KN/m]	
C10	C10W	W/W-SK	78°	1	158	196	508 – 550 FR	SC-L1	21.3 – 23	700	42CrMo4 ●
	C10	10				180			18.2 – 19.7		
D10	D10W	W/W-SK	78°	1	158	196	508 – 550 FR	SC-L1	18.5 – 20	750	42CrMo4 ●
	D10	10				180			15.6 – 16.8		
E10	E10W	W/W-SK	78°	1	158	196	508 – 550 FR	SC-L1	15 – 16.2	400	42CrMo4 ●
	E10	10				180			11.1 – 12		

● temprato=induction hardened ○ bonificato=tempered

LVD PUNZONI/PUNCHES



F10

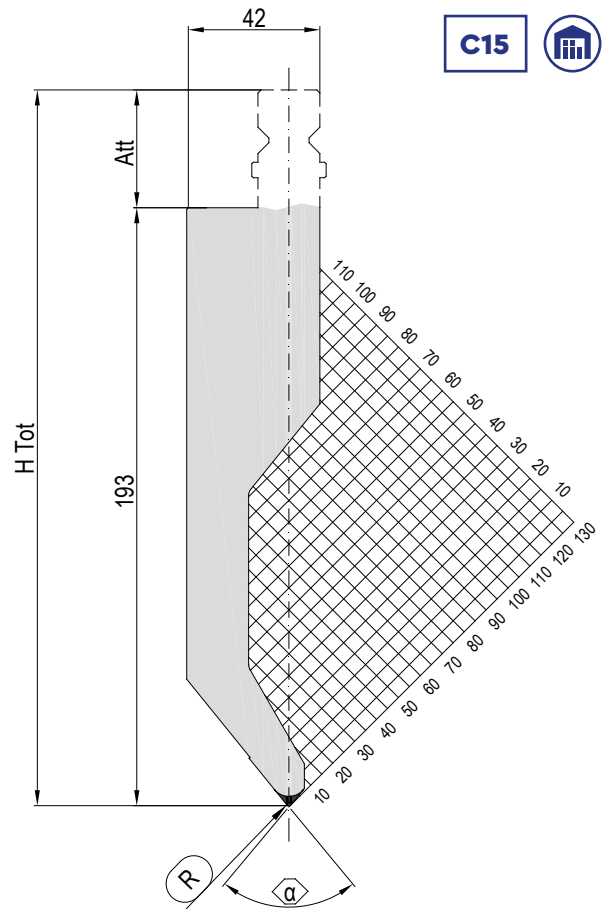
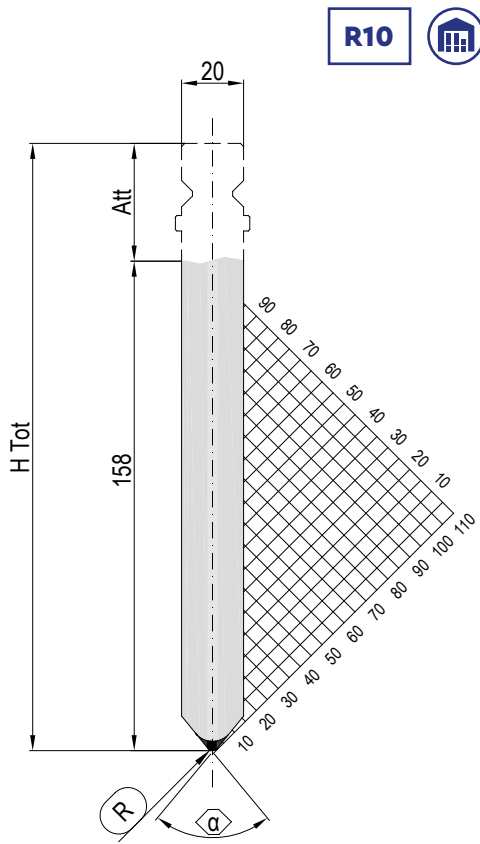


J10



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [kN/m]	
F10	F10W	W/W-SK	26°	1	158	180	508 - 550 FR	SC-L1	15 - 16.2	400	42CrMo4 ●
	F10	10				196			8 - 8.6		
J10	J10W	W/W-SK	26°	1	158	180	508 - 550 FR	SC-L1	15.3 - 16.6	400	42CrMo4 ●
	J10	10				196			8.3 - 9		

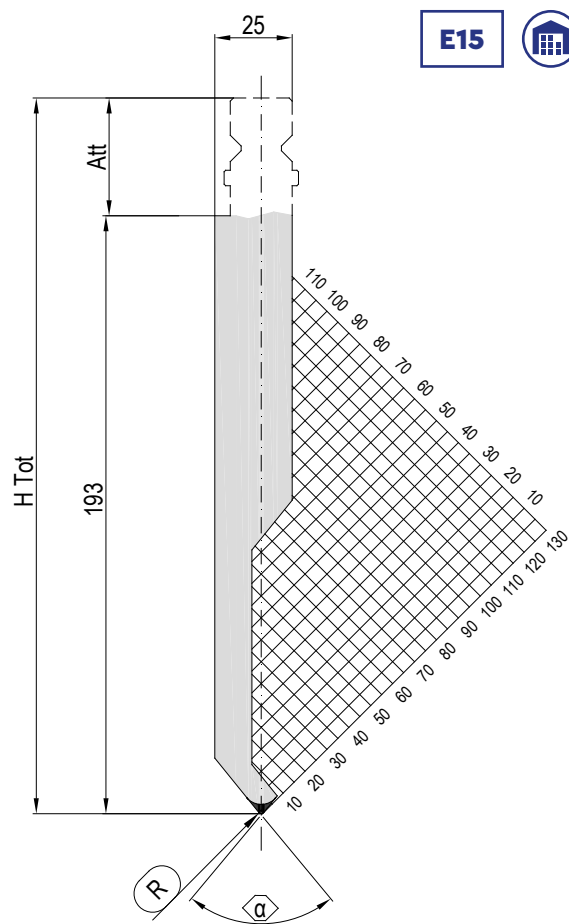
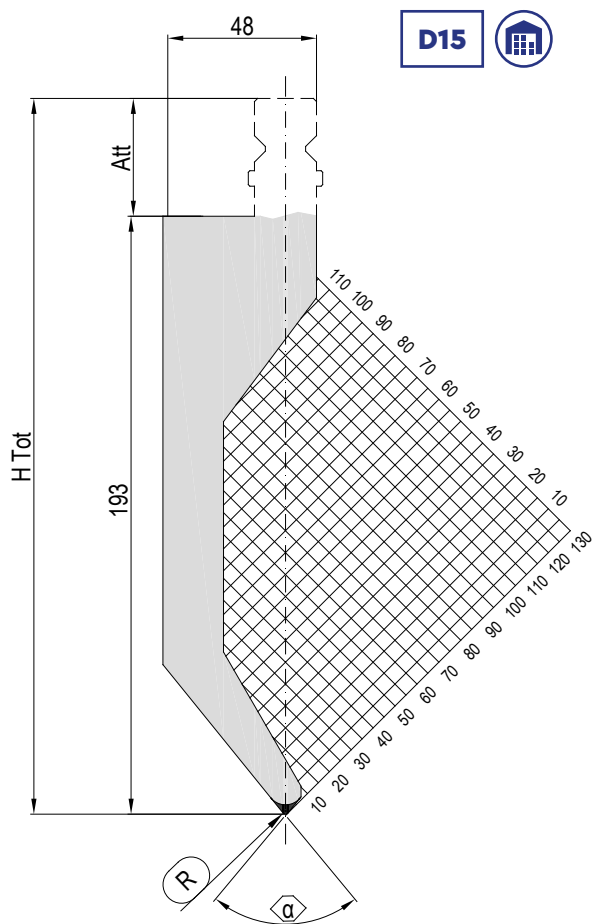
● temprato=induction hardened ○ bonificato=tempered



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [KN/m]	
R10	R10W	W/W-SK	78°	2	158	180	508 – 550 FR	SC-L2	15 – 16.2	800	42CrMo4 ●
	R10	10				196			8.9 – 9.6		
C15	C15W	W/W-SK	78°	2	193	231	508 – 550 FR	SC-L2	26.4 – 28.5	700	42CrMo4 ●
	C15	15				225			25 – 27		

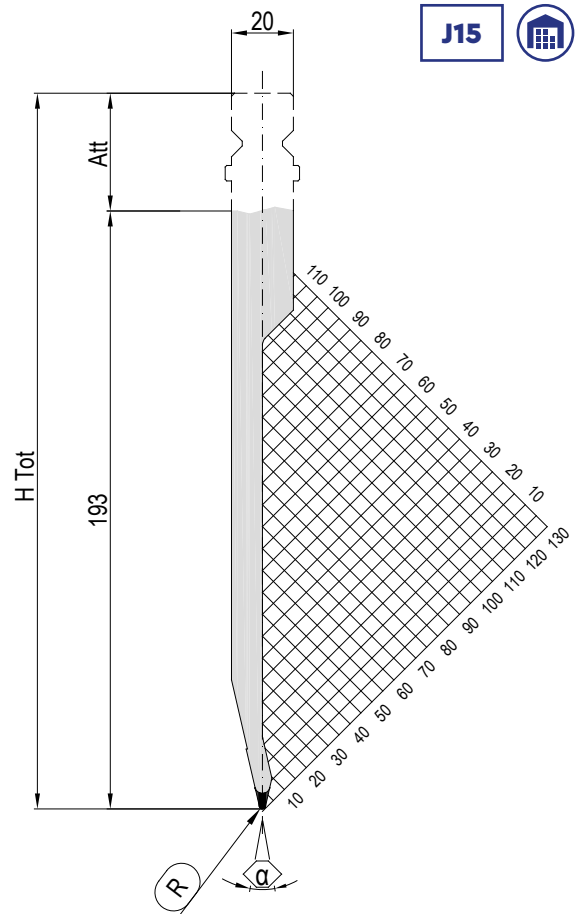
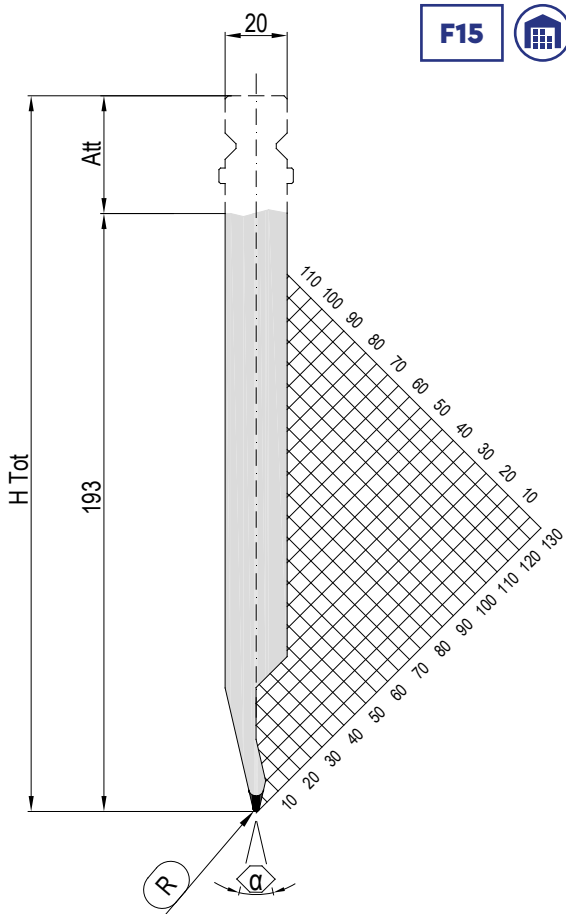
● temprato=induction hardened ○ bonificato=tempered

LVD PUNZONI/PUNCHES



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [KN/m]	
D15	D15W	W/W-SK	78°	2	193	231	508 - 550 FR	SC-L2	23.3 - 25.2	400	42CrMo4 ●
	D15	15				225			22.4 - 24.2		
E15	E15W	W/W-SK	78°	2	193	231	508 - 550 FR	SC-L2	20.2 - 21.8	700	42CrMo4 ●
	E15	15				225			18.2 - 19.7		

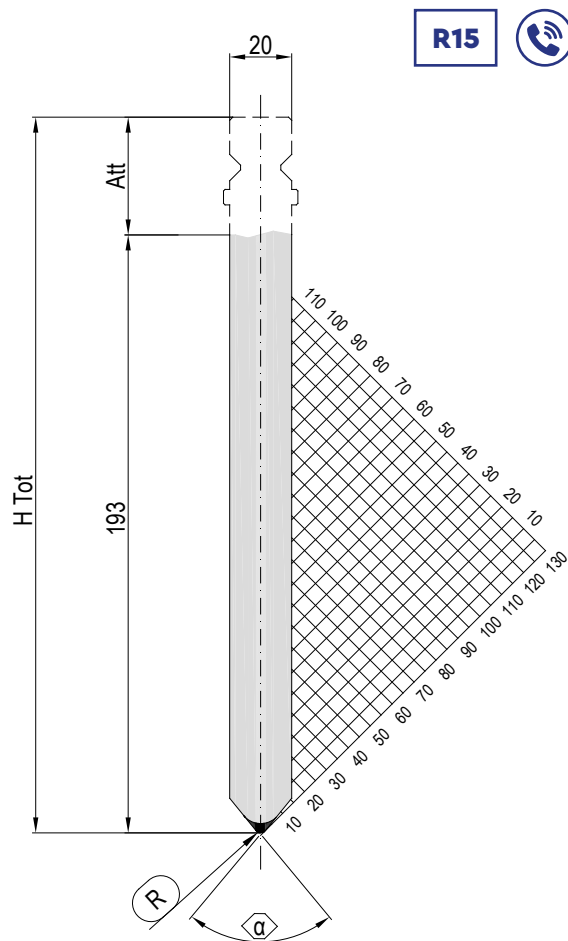
● temprato=induction hardened ○ bonificato=tempered



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [KN/m]	
F15	F15W	W/W-SK	26°	2	193	231	508 - 550 FR	SC-L2	16 - 17.3	400	42CrMo4 ●
	F15	15				225			14 - 15.1		
J15	J15W	W/W-SK	26°	2	193	231	508 - 550 FR	SC-L2	11.7 - 12.5	600	42CrMo4 ●
	J15	15				225			9.7 - 10.5		

● temprato=induction hardened ○ bonificato=tempered

LVD PUNZONI/PUNCHES

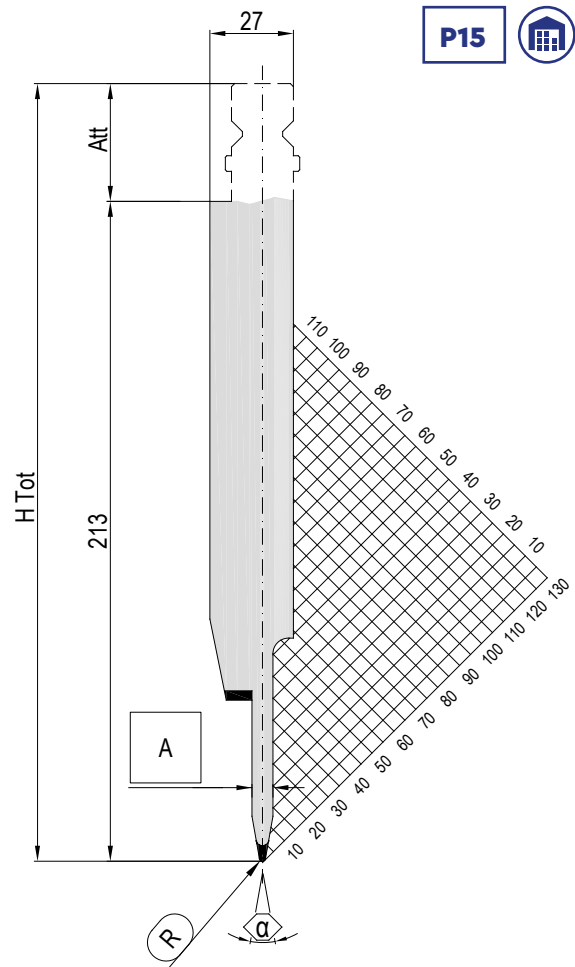
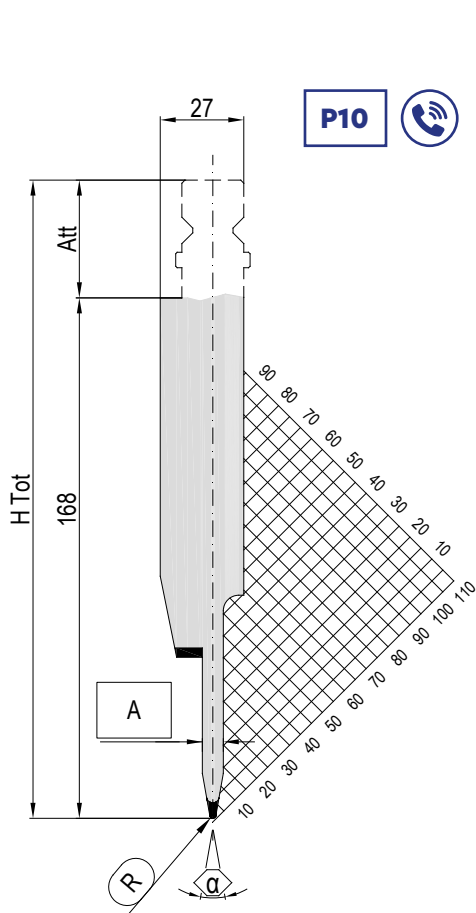


R15



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Modello scarpetta Horn mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [KN/m]	
R15	R15W	W/W-SK	78°	3	193	231	508 - 550 FR	SC-L2	17.7 - 19.1	600	42CrMo4 ●
	R15	15				225			15.5 - 16.7		

● temprato=induction hardened ○ bonificato=tempered

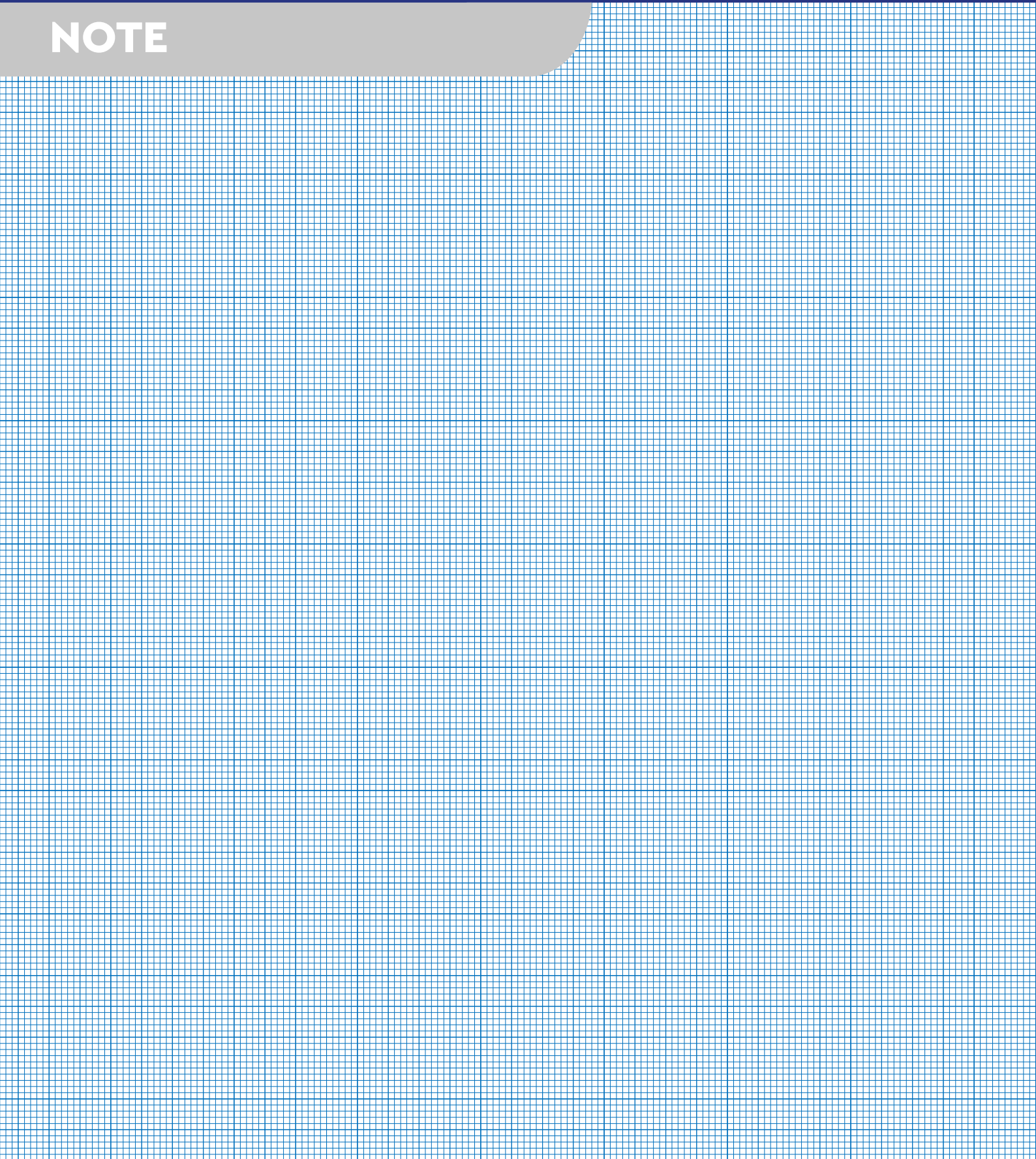


Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Spessore Thickness	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	A [mm]	H [mm]	H1 [mm]	L [mm]	K [kg]	F [KN/m]	
P10	P10.08W	W / W-SK	20°	1	6.8	168	206	508	17 - 18.4	400	42CrMo4 ●
	P10.08	10					190		12 - 13		
	P10.10W	W / W-SK			8.8		206		17 - 18.4		
	P10.10	10					190		12 - 13		
	P10.12W	W / W-SK		1,5	10.8		206		17 - 18.4		
	P10.12	10					190		12 - 13		

Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Spessore Thickness	Altezza Height	Altezza tot Tot.Height	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	A [mm]	H [mm]	H1 [mm]	L [mm]	K [kg]	F [KN/m]	
P15	P15.08W	W/W-SK	20°	1	6.8	213	251	508	21 - 22.7	400	42CrMo4 ●
	P15.08	15					245		16 - 17.3		
	P15.10W	W/W-SK			8.8		251		21 - 22.7		
	P15.10	15					245		16 - 17.3		
	P15.12W	W/W-SK		1,5	10.8		251		21 - 22.7		
	P15.12	15					245		16 - 17.3		

● temprato=induction hardened ○ bonificato=tempered

NOTE

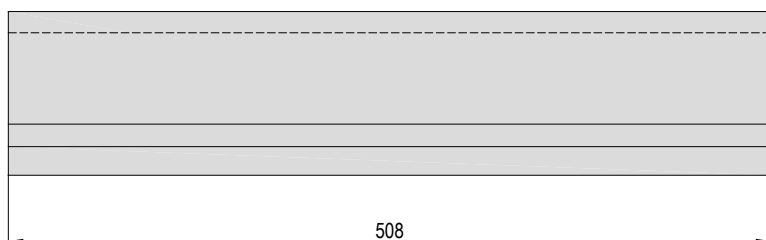




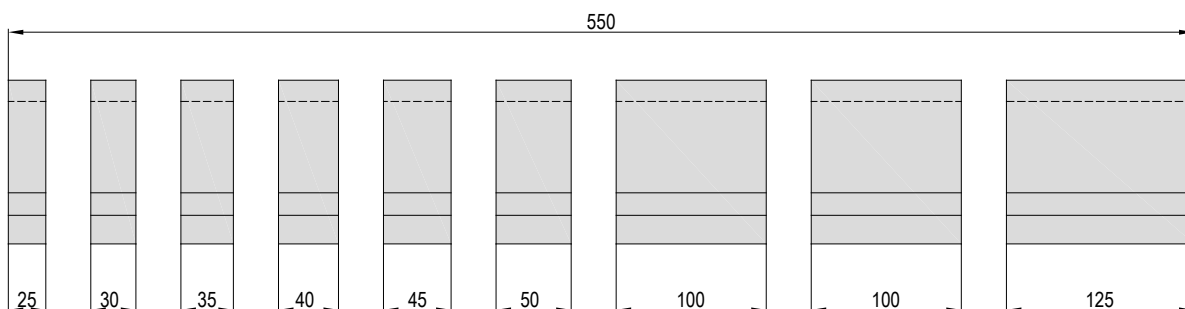
LVD
Matrici/Dies



508

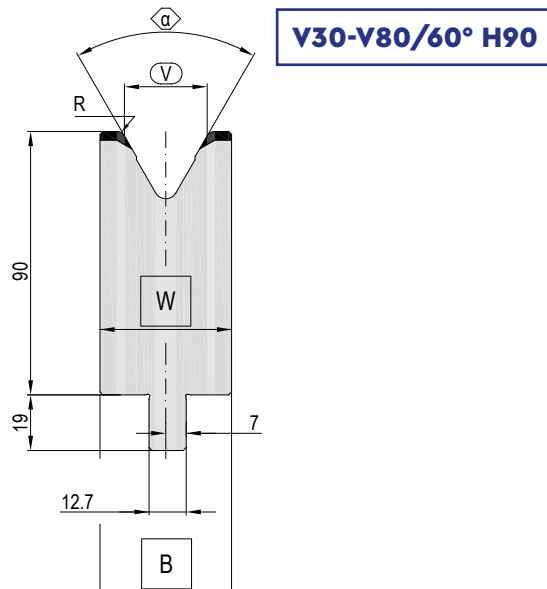
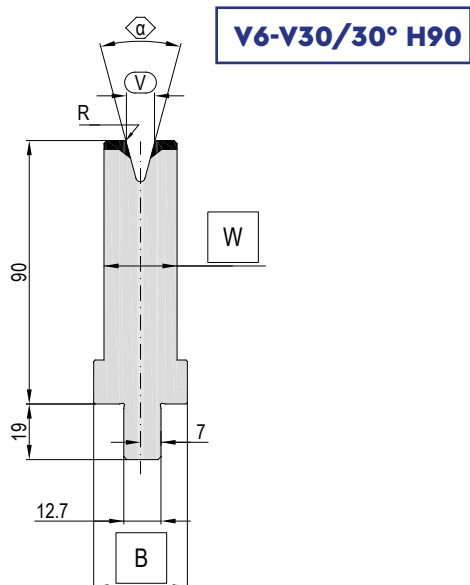


550 FR/550 SECT.



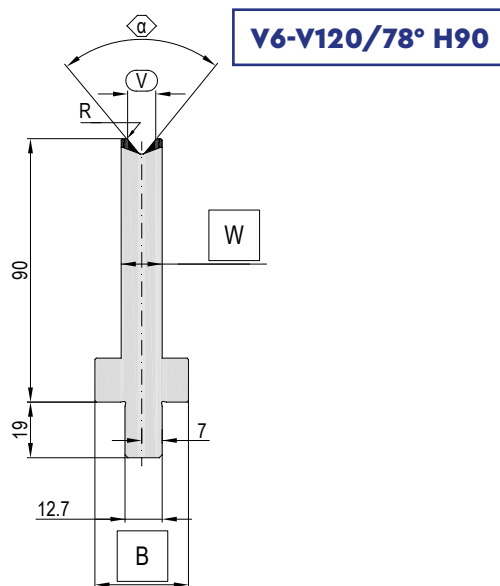
MATERIALE/MATERIAL



Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55



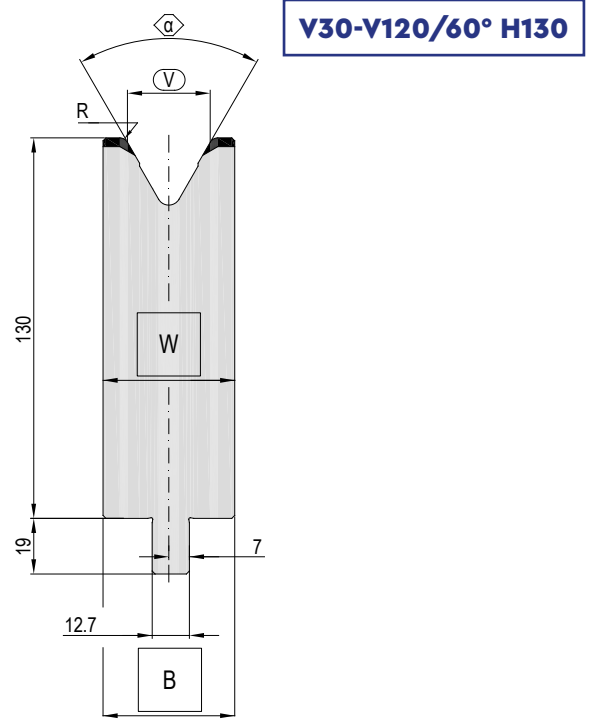
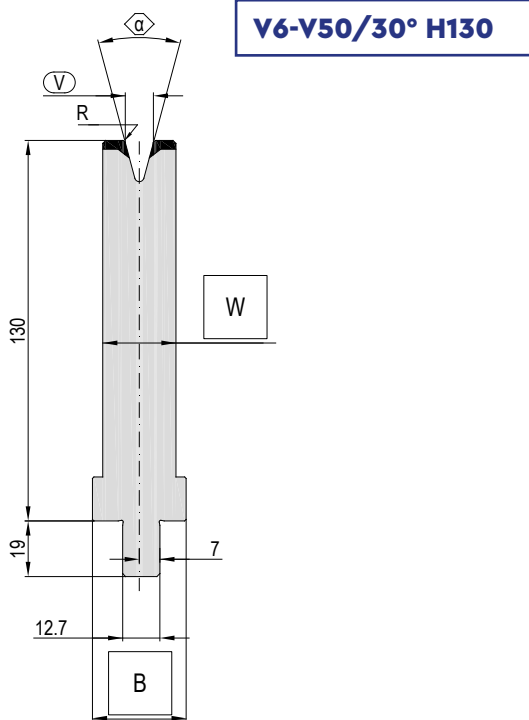
Fam.	Mod.	Angolo	Apertura	Raggio	Altezza	Larghezza	Larghezza	Lunghezza	Peso	Forza	Materiale	
		Angle	Opening	Radius	Height	Width	base	Length	Weight	Force		
		α [°]	V [mm]	R [mm]	H [mm]	W [mm]	B [mm]	L [mm]	K [kg]	F [KN/m]		
V6-V30/ 30° H90	V6/30°	30°	6	1.5	90	16	32	508 - 550 FR	8 - 8.6	250	42CrMo4	🏠
	V8/30°		8									
	V10/30°		10	2		25	32		10 - 10.8	400		
	V12/30°		12	2.5								
	V16/30°		16	3		40	13.7 - 14.8					
	V20/30°		20	3.5								
	V24/30°		24			45	600					
	V30/30°		30	70		23 - 24.8						
V30-V80/ 60° H90	V30/60°	60°	30	3	90	42	508 - 550 FR	14.5 - 15.8	550	42CrMo4	📞	
	V40/60°		40	4		55		18.5 - 20	700			
	V50/60°		50			70		22 - 23.7	1100			
	V60/60°		60	5		75		22 - 23.7	1200			
	V70/60°		70			100		29.9 - 32.2	1300			
	V80/60°		80	6		110		29.9 - 32.2	1400			

● temprato=induction hardened ○ bonificato=tempered



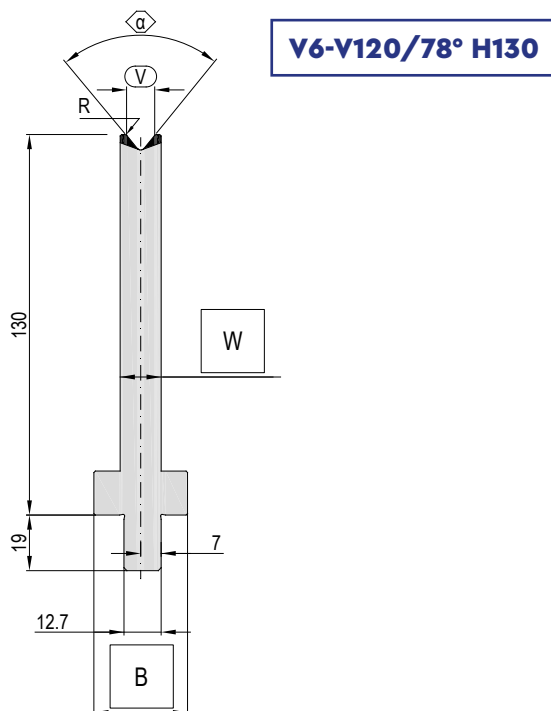
Fam.	Mod.	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Larghezza base Base width	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material						
		α [°]	V [mm]	R [mm]	H [mm]	W [mm]	B [mm]	L [mm]	K [kg]	F [KN/m]							
V6 - V120/ 78° H90	V6/78°	78°	6	1	90	12	32	508 - 550 FR	6.5 - 7	400	42CrMo4						
	V8/78°		8	1.2		14			6.5 - 7	500							
	V10/78°		10	1.5		18			7.1 - 7.7	600							
	V12/78°		12	2		25			8 - 8.6	800							
	V16/78°		16	2.5		32			10 - 10.8	1000							
	V20/78°		20	3		40	12 - 13		1500	11.6 - 12.5			1100				
	V24/78°		24	4		50	14 - 15.1			1300							
	V30/78°		30	5		70	17 - 18.4		1500	23 - 24.8			1500				
	V40/78°		40	5.5		80	22 - 23.8										
	V50/78°		50	6.5		95	25 - 27										
	V60/78°		60	8		120	27 - 29.2		1500	34.8 - 37.5			1500				
	V70/78°		70	10		140	37 - 40										
	V80/78°		80	12													
	V100/78°		100														
	V120/78°		120														



● temprato=induction hardened ○ bonificato=tempered



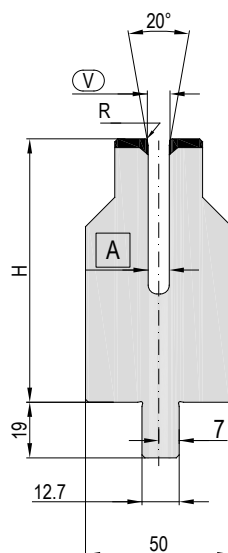
Fam.	Mod.	Angolo	Apertura	Raggio	Altezza	Larghezza	Larghezza	Lunghezza	Peso	Forza	Materiale	
		Angle	Opening	Radius	Height	Width	base	Lenght	Weight	Force		
		α [°]	V [mm]	R [mm]	H [mm]	W [mm]	B [mm]	L [mm]	K [kg]	F [KN/m]		
V6-V50/ 30° H130	V6/30°	30°	6	1.5	130	16	32	508 - 550 FR	10 - 10.8	200	42CrMo4	🏠
	V8/30°		8						10.8 - 11.7			
	V10/30°		10	2		25	13.9 - 15		400			
	V12/30°		12	2.5		32	13.6 - 14.7					
	V16/30°		16	3		40	16.4 - 17.7					
	V20/30°		20	3.5			20 - 21.6					
	V24/30°		24	4		45	22 - 23.8		600			
	V30/30°		30			70	34 - 36.7					
	V40/30°		40	75		34.2 - 37	750					
	V50/30°		50	95		45.5 - 49						
V30-V120/ 60° H130	V30/60°	60°	30	3	130	42	508 - 550 FR	21.2 - 22.86	500	42CrMo4	📞	
	V40/60°		40	4		55		26.8 - 28.9	650			
	V50/60°		50			70		33.1 - 35.7	1050			
	V60/60°		60	5		75		33.9 - 36.6	1200			
	V70/60°		70	100		100		47.4 - 51	1600			
	V80/60°		80	6		110		47.4 - 51	1800			
	V100/60°		100			125		49.4 - 53.3	1600			
	V120/60°		120	8		140		50.6 - 54.5	1300			

● temprato=induction hardened ○ bonificato=tempered



Fam.	Mod.	Angolo	Apertura	Raggio	Altezza	Larghezza	Larghezza	Lunghezza	Peso	Forza	Materiale		
		Angle	Opening	Radius	Height	Width	base						
		α [°]	V [mm]	R [mm]	H [mm]	W [mm]	B [mm]	L [mm]	K [kg]	F [KN/m]			
V6 - V120/78° H130	V6/78°	78°	6	1	130	12	32	508 - 550 FR	8.2 - 8.9	400	42CrMo4		
	V8/78°		8	1.2		12			8.2 - 8.9				
	V10/78°		10	1.5		14			9 - 9.7				500
	V12/78°		12	2		18			10.8 - 11.7	600			
	V16/78°		16	2.5		25			14 - 15.1	800			
	V20/78°		20	3		32			20.1 - 21.7	1000			
	V24/78°		24			16.6 - 17.9	1000						
	V30/78°		30	4		40	24.6 - 26.6		1100	1500			
	V40/78°		40	5		50	24.7 - 26.7		1300				
	V50/78°		50	5.5		70	34 - 36.7		1500				
	V60/78°		60	6.5			32.6 - 35.2						
	V70/78°		70	8		80	38.8 - 41.9						
	V80/78°		80			95	42.1 - 45.5						
	V100/78°		100	10		120	50.8 - 54.9						
	V120/78°		120	12		140	56 - 60.5						

● temprato=induction hardened ○ bonificato=tempered



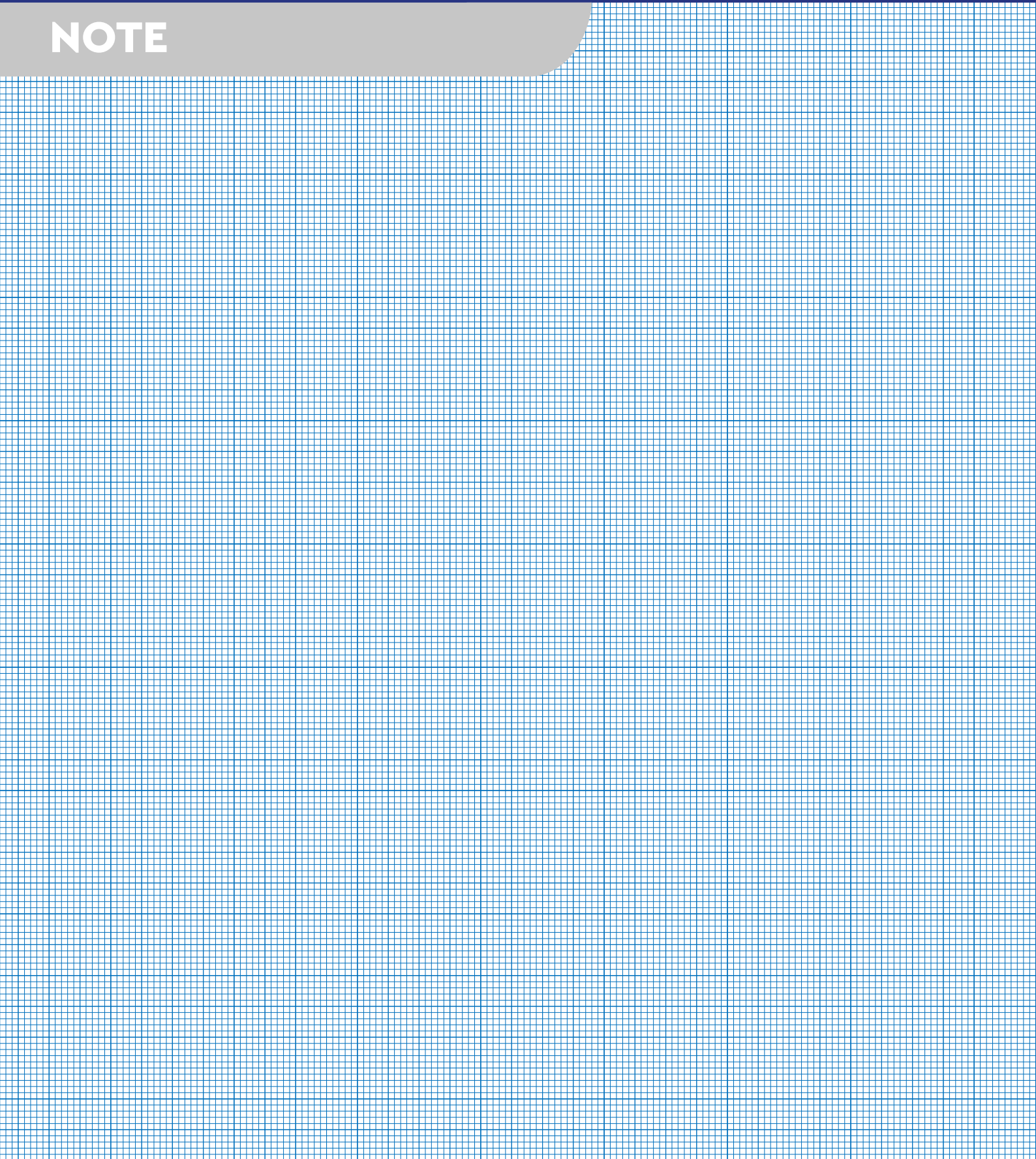
T H90/H130



Fam.	Mod.	Sede Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		A [mm]	α [°]	V [mm]	R [mm]	H [mm]	L [mm]	K [kg]	F [KN/m]	
T H90/ H130	T08/90	7.2	20°	8	1	90	508- 550 FR	14.5 - 15.7	400	42CrMo4 ●
	T10/90	9.2		10						
	T12/90	11.2		12						
	T08/130	7.2		8		130		22.5 - 24.3		
	T10/130	9.2		10						
	T12/130	11.2		12						

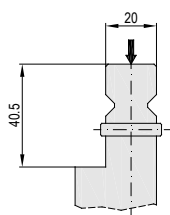
● temprato=induction hardened ○ bonificato=tempered

NOTE

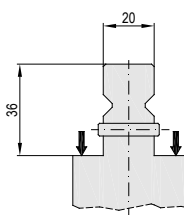




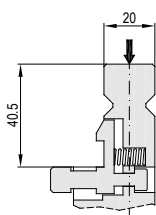
TRUMPF
Punzoni/Punches



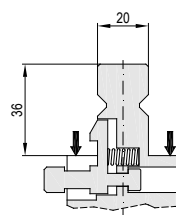
ATT. W



ATT. W HD

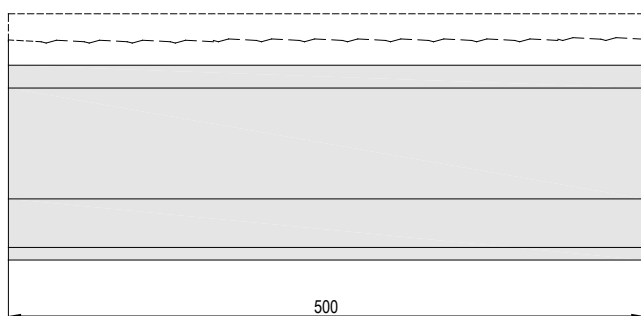


ATT. W-SK

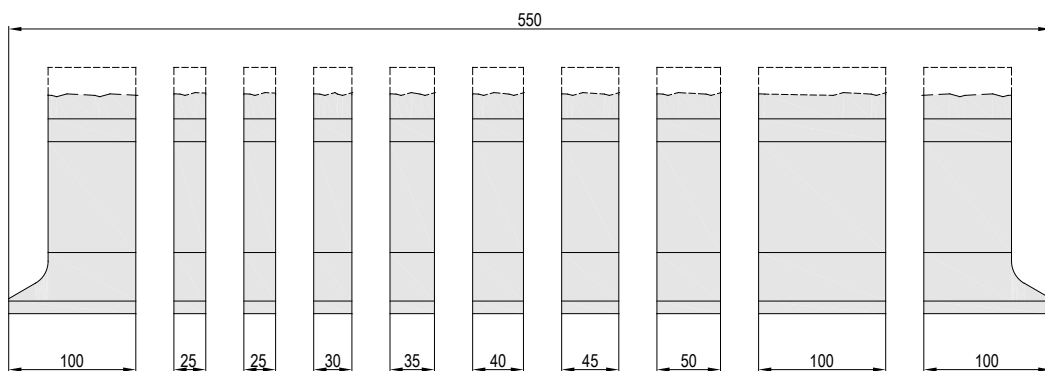


ATT. W HD-SK

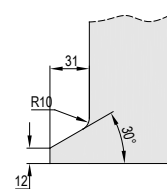
500



550 FR/550 SECT.



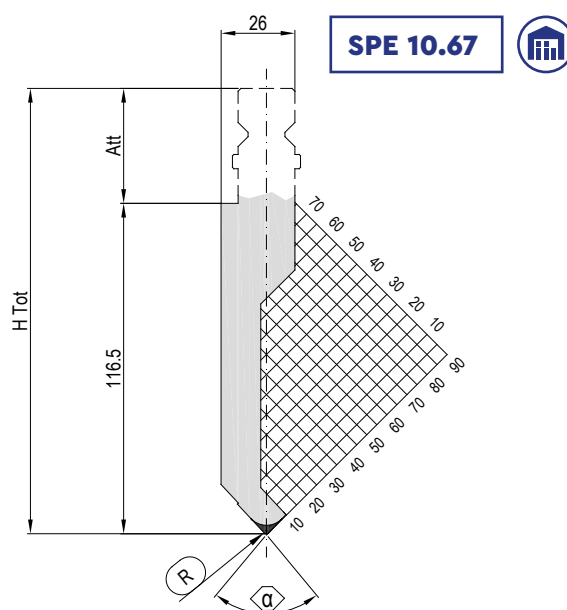
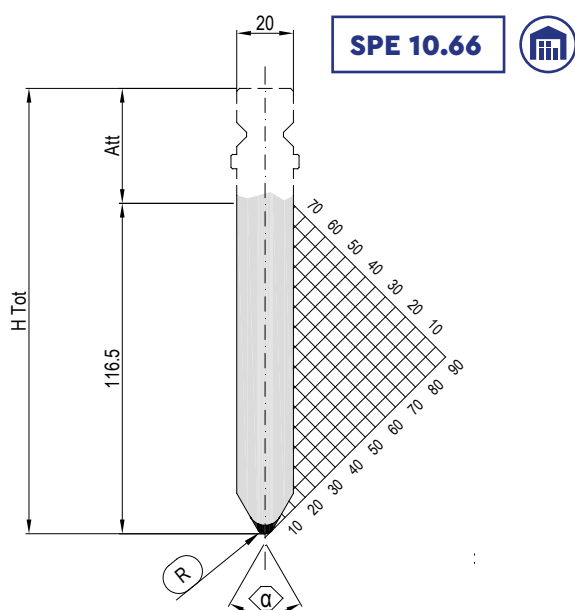
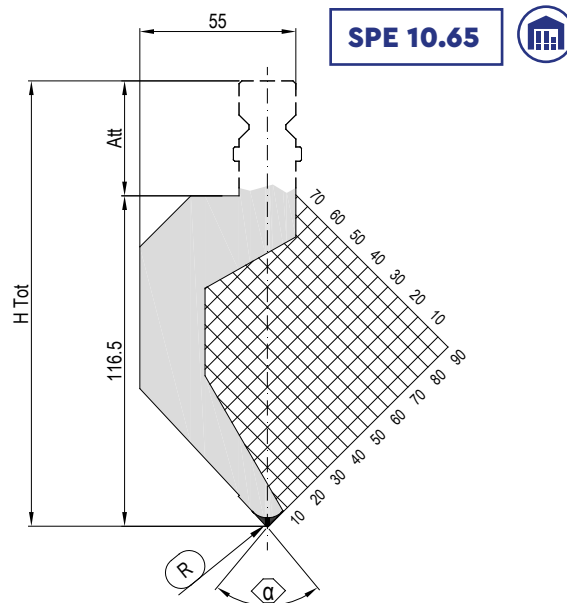
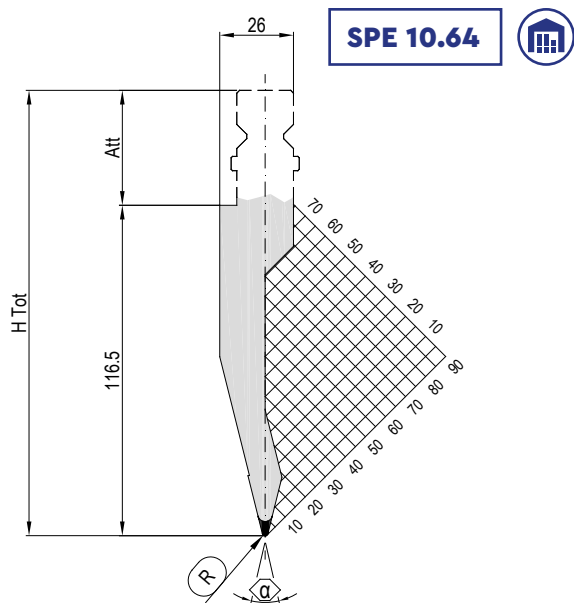
SCARPETTA/HORN



MOD. SC-T1

MATERIALE/MATERIAL

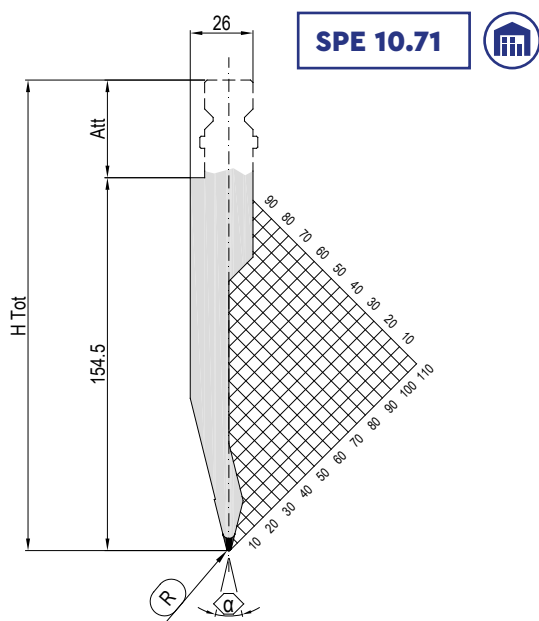
Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55



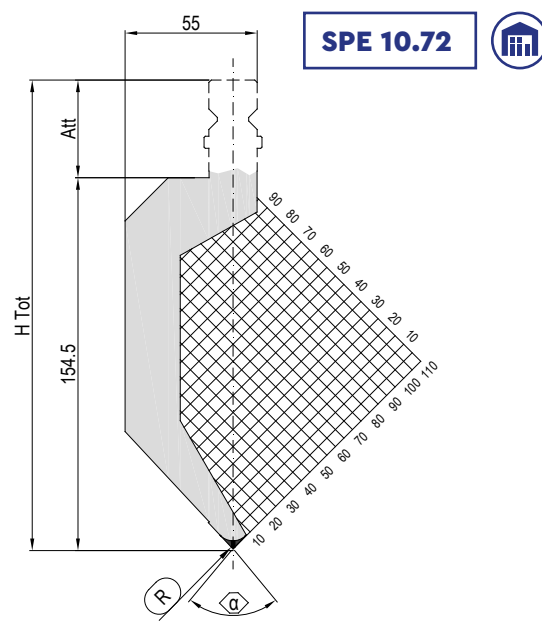
Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Length	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [kN/m]	
SPE 10.64	SPE 10.64/28°	W/W-SK	28°	1	116,5	157	500-550 FR	SC-T1	9-10	800	42CrMo4 ●
SPE 10.65	SPE 10.65/86°	W/W-SK	86°	1	116,5	157	500-550 FR	SC-T1	15-16	650	42CrMo4 ●
SPE 10.66	SPE 10.66/60°	W/W-SK	60°	1	116,5	157	500-550 FR	SC-T1	26-28	1600	42CrMo4 ●
SPE 10.67	SPE 10.67/86°	W/W-SK	86°	1	116,5	157	500-550 FR	SC-T1	22-23	1000	42CrMo4 ●

● temprato=induction hardened ○ bonificato=tempered

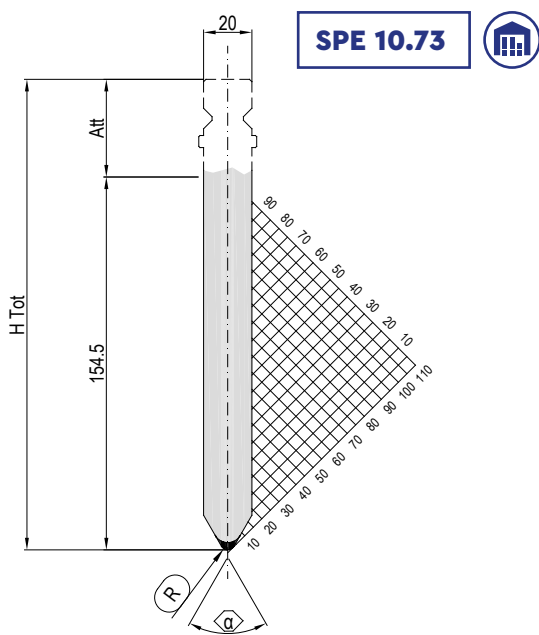
TRUMPF PUNZONI/PUNCHES



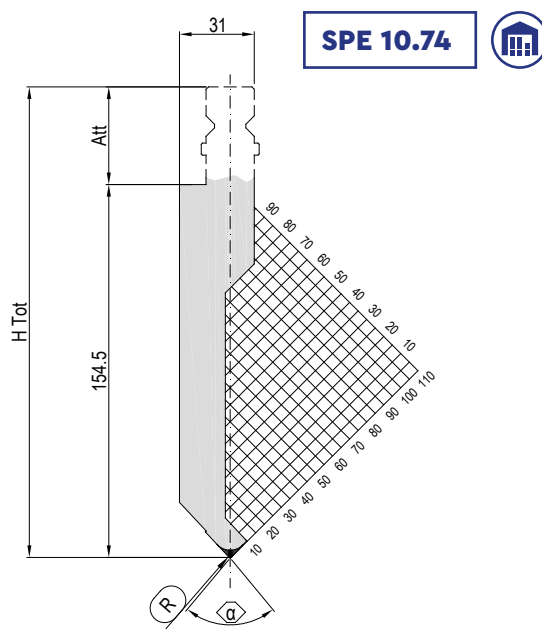
SPE 10.71



SPE 10.72



SPE 10.73

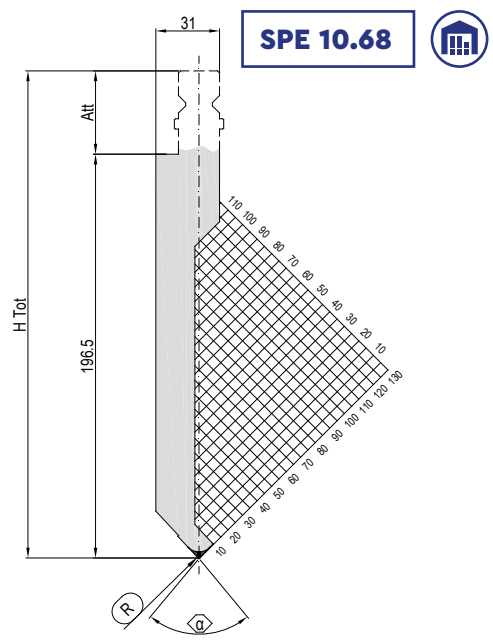
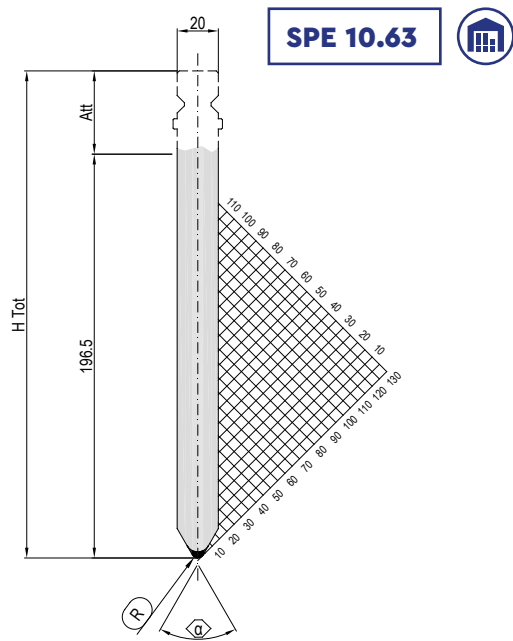
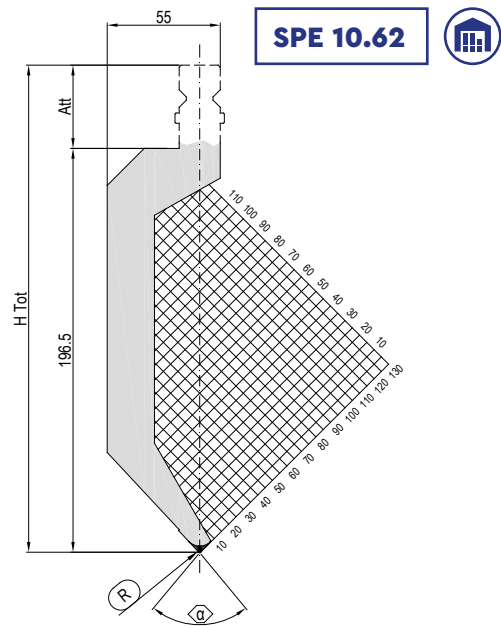
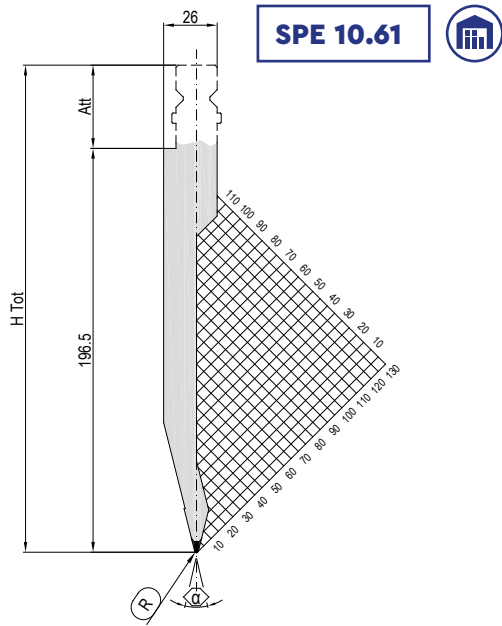


SPE 10.74



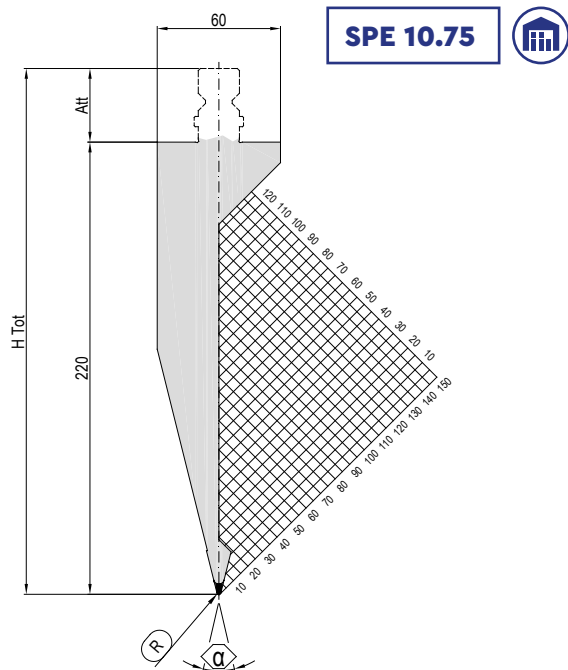
Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Length	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [kN/m]	
SPE 10.71	SPE 10.71/28°	W/W-SK	28°	1	154,5	195	500-550 FR	SC-T1	12-13	800	42CrMo4 ●
SPE 10.72	SPE 10.72/86°	W/W-SK	86°	1	154,5	195	500-550 FR	SC-T1	19-20	550	42CrMo4 ●
SPE 10.73	SPE 10.73/60°	W/W-SK	60°	3	154,5	195	500-550 FR	SC-T1	14-15	1200	42CrMo4 ●
SPE 10.74	SPE 10.74/86°	W/W-SK	86°	1	154,5	195	500-550 FR	SC-T1	15-16	800	42CrMo4 ●

● temprato=induction hardened ○ bonificato=tempered

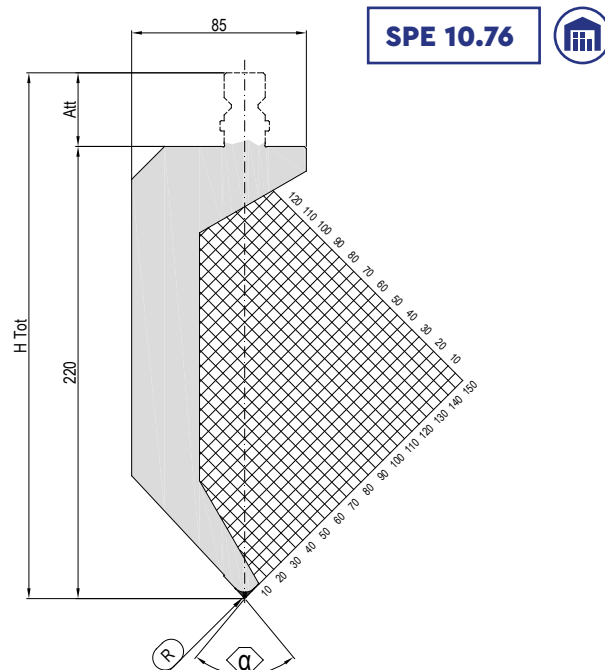


Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Lenght	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H1 [mm]	L [mm]		K [kg]	F [KN/m]	
SPE 10.61	SPE 10.61/28°	W/W-SK	28°	1	196,5	237	500-550 FR	SC-T1	15.5-17	600	42CrMo4 ●
SPE 10.62	SPE 10.62/86°	W/W-SK	86°	1	196,5	237	500-550 FR	SC-T1	22-24	1200	42CrMo4 ●
SPE 10.63	SPE 10.63/86°	W/W-SK	86°	1	196,5	237	500-550 FR	SC-T1	22-24	800	42CrMo4 ●
SPE 10.68	SPE 10.68/86°	W/W-SK	86°	1	196,5	237	500-550 FR	SC-T1	22-24	800	42CrMo4 ●

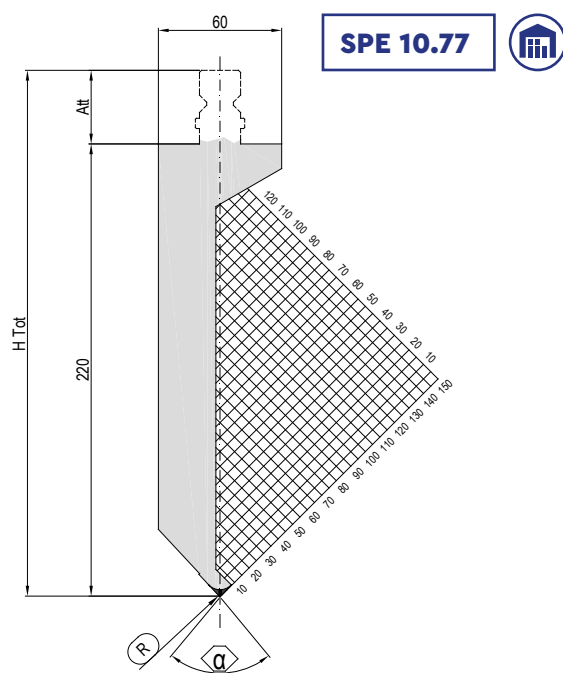
● temprato=induction hardened ○ bonificato=tempered



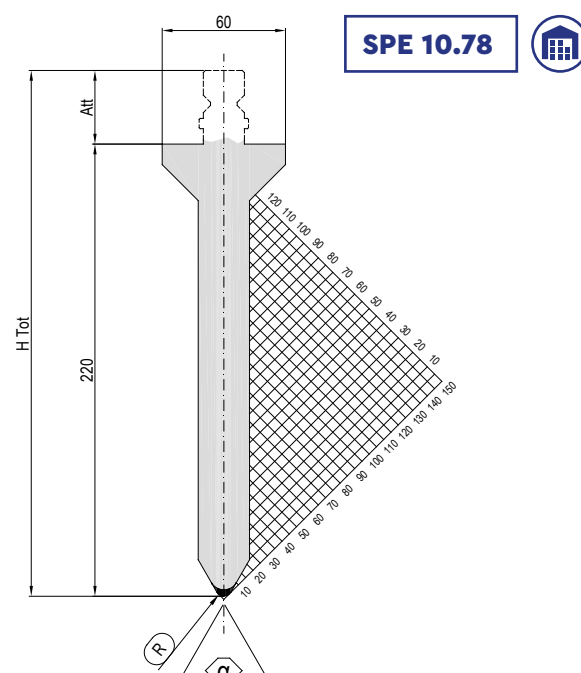
SPE 10.75



SPE 10.76



SPE 10.77

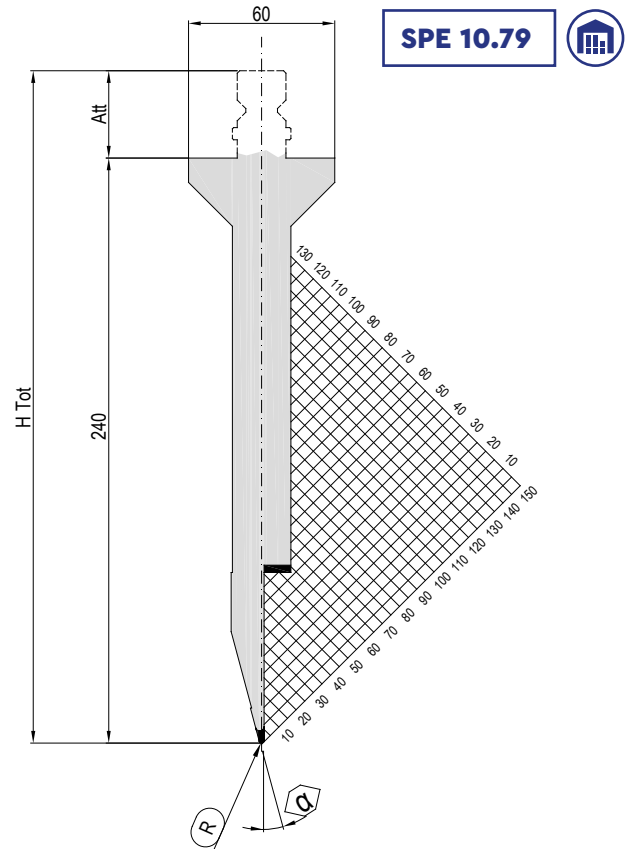
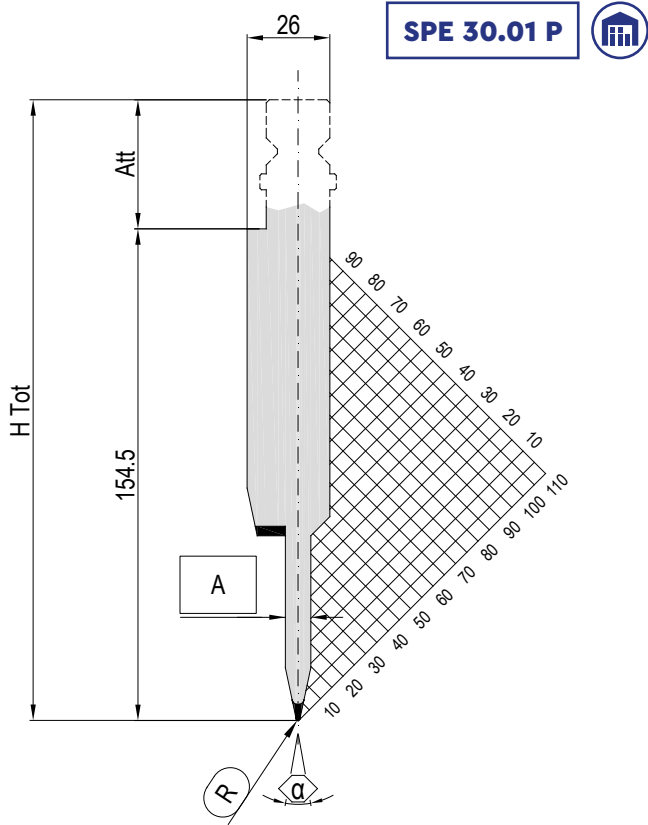


SPE 10.78



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot. Height H Tot	Lunghezza Lenght	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	[mm]	L [mm]		K [kg]	F [KN/m]	
SPE 10.75	SPE 10.75/28°	W HD/ W HD-SK	28°	1	220	256	500-550 FR	SC-T1	25-27	600	42CrMo4 ●
SPE 10.76	SPE 10.76/86°	W HD/ W HD-SK	86°	1	220	256	500-550 FR	SC-T1	34-37	800	42CrMo4 ●
SPE 10.77	SPE 10.77/28°	W HD/ W HD-SK	28°	1	220	256	500-550 FR	SC-T1	28-30	600	42CrMo4 ●
SPE 10.78	SPE 10.78/60°	W HD/ W HD-SK	60°	4	220	256	500-550 FR	SC-T1	26-28	1500	42CrMo4 ●

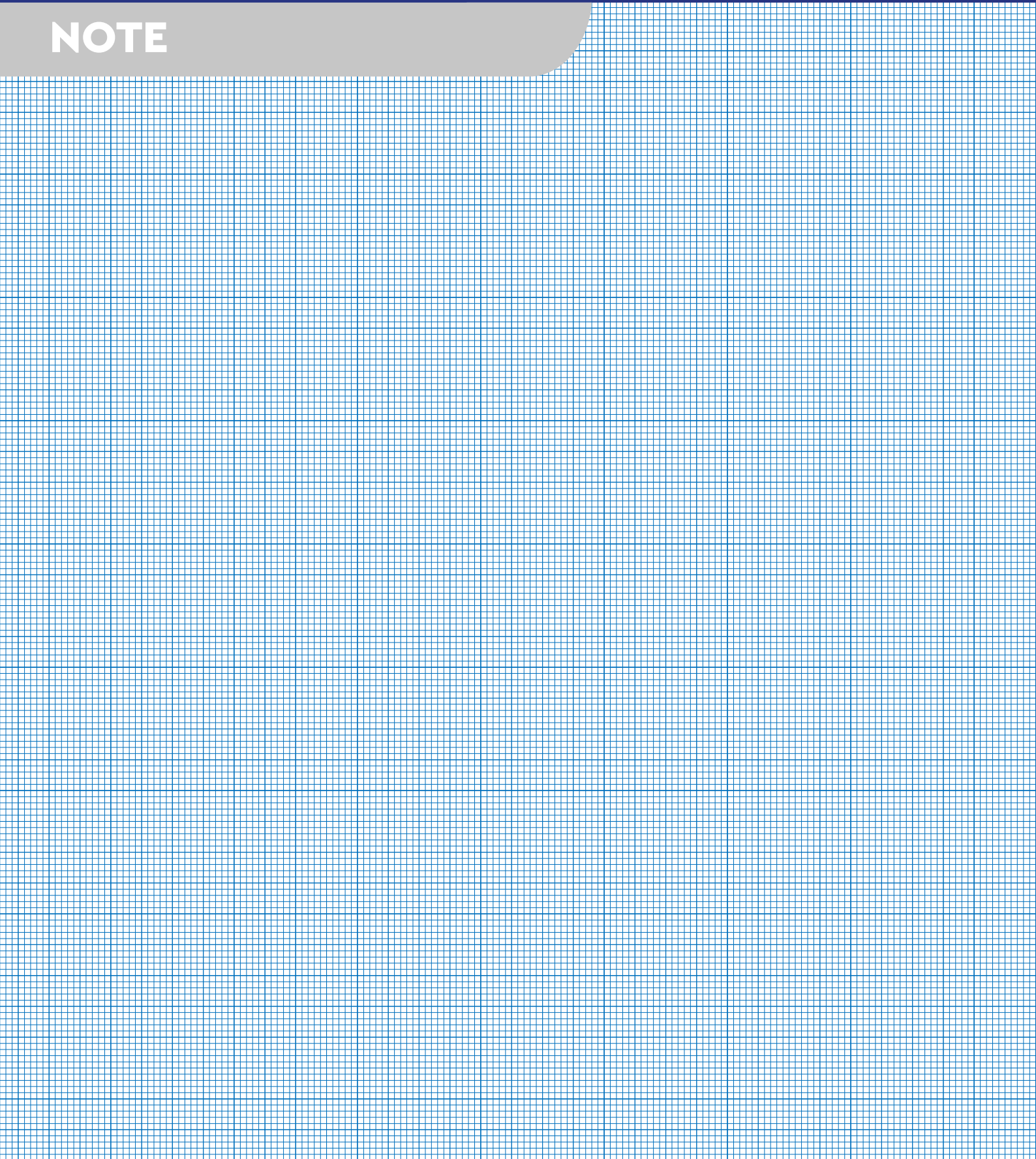
● temprato=induction hardened ○ bonificato=tempered



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Spessore Thickness	Altezza Height	Altezza tot. Tot. Height	Lunghezza Lenght	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	A	H [mm]	H Tot [mm]	L [mm]		K [kg]	F [kN/m]	
SPE 30.01 P	SPE 30.01 P8	W/ W-SK	28°	0,6	8	154,5	195	500-550 FR	SC-T1	13-14	500	42CrMo4 ●
	SPE 30.01 P10		24°		10						800	
	SPE 30.01 P12				12							
SPE 10.79	SPE 10.79/28°	W HD/ W HD-SK	28°	1		240	276	500-550 FR	SC-T1	24-26	400	42CrMo4 ●

● temprato=induction hardened ○ bonificato=tempered

NOTE

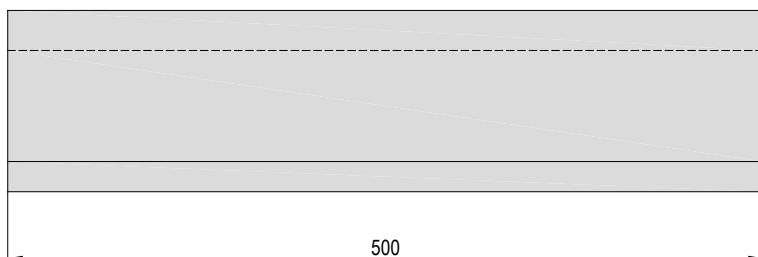




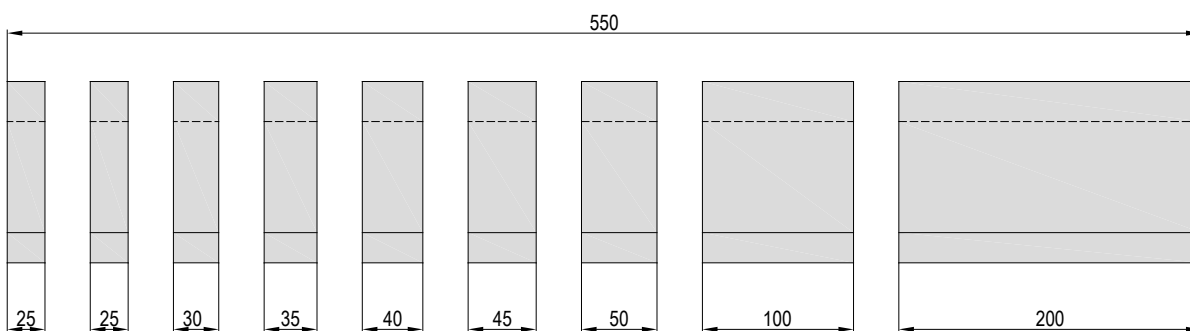
TRUMPF
Matrici/Dies



500



550 FR/550 SECT.

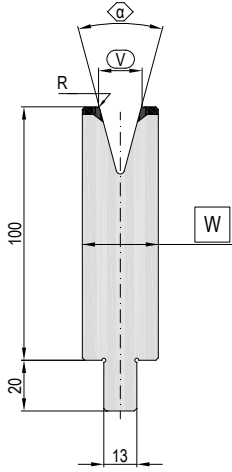


Fraz. Matrice Trumf

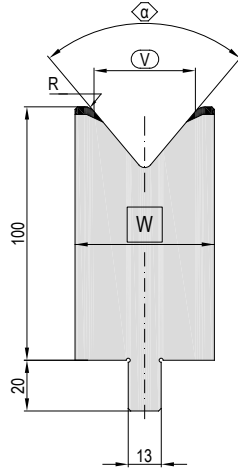
MATERIALE/MATERIAL

Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55

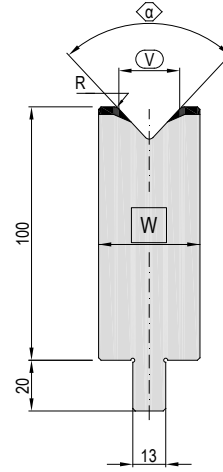
SPE V6-V24/30°



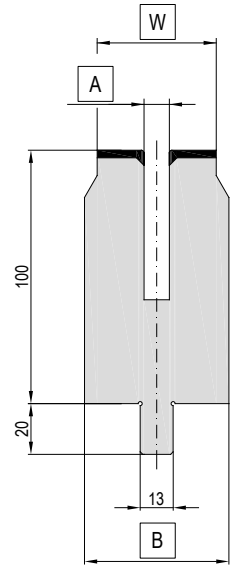
SPE V30-V100/80°



SPE V6-V24/86°



SPE 30.01 M

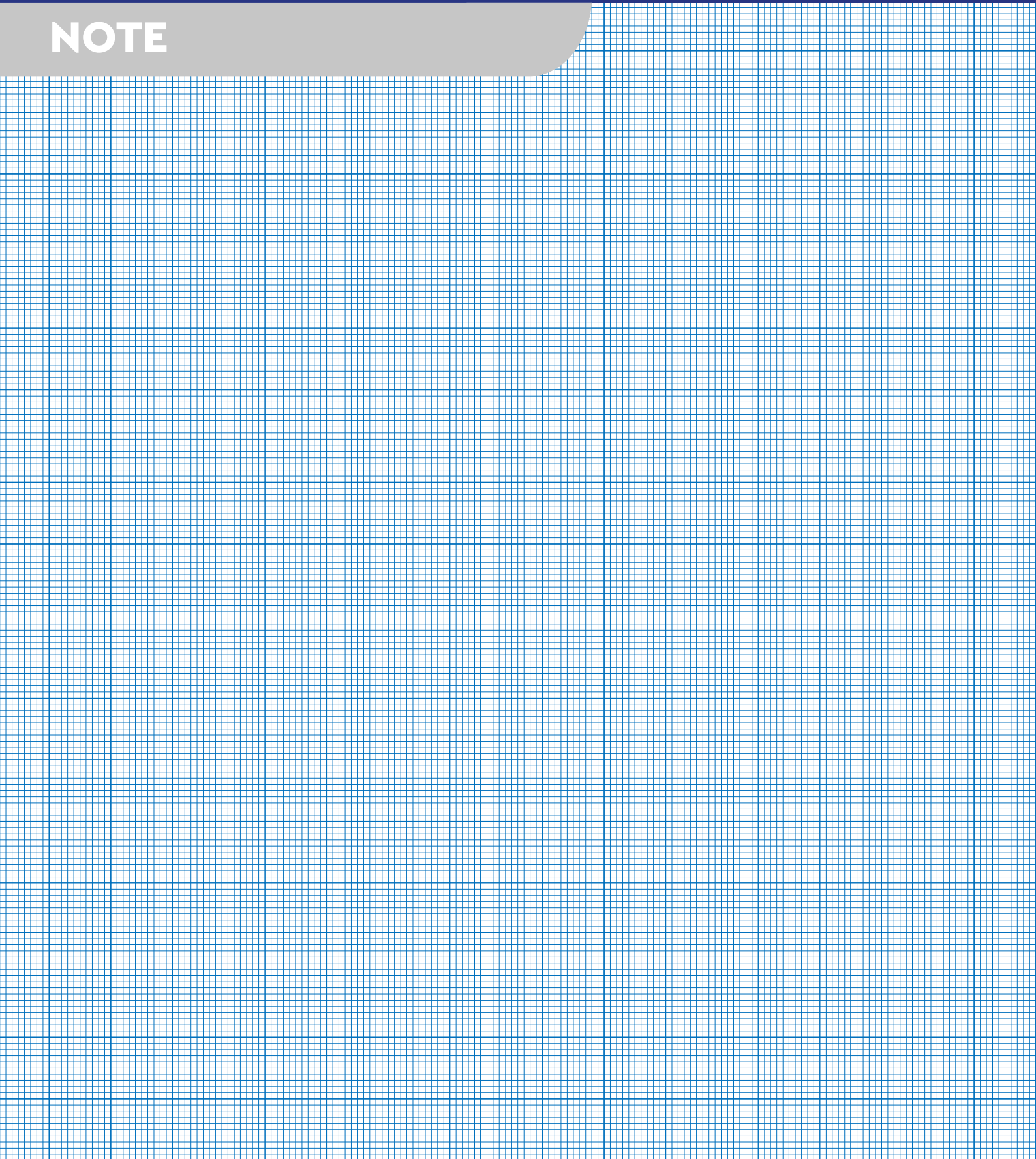


Fam.	Mod.	Angolo Angle	Apertura Opening	Larghezza Tot Tot. Width	Raggio Radius	Altezza Height	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material	
		α [°]	V [mm]	W [mm]	R [mm]	H [mm]	L [mm]	K [kg]	F [KN/m]		
SPE V6 V24/30°	SPE V6/30°	30°	6	20	1	100	500-550 FR	8.7-9.5	500	42CrMo4 ●	🏠
	SPE V8/30°		8					10.2-11.2			
	SPE V10/30°		10								
	SPE V12/30°		12	25	1,6			11.8-13	450		
	SPE V16/30°		16	30				13.2-14.6	500		
	SPE V20/30°		20	35	2			14.6-16	500		
	SPE V24/30°		24	40	2,5						
SPE V30 V100/80°	SPE V30/80°	80°	30	45	3	100	500-550 FR	17.5-19.3	1000	42CrMo4 ●	🏠
	SPE V40/80°		40	55	5			20.6-22.7			
	SPE V50/80°		50	65				27.5-30.2			
	SPE V60/80°		60	75				26.2-28.2			
	SPE V80/80°		80	95	8			33.2-35.2			
	SPE V100/80°		100	120				45-49			
SPE V6 V24/86°	SPE V6/86°	86°	6	20	0,6	100	500-550 FR	8.8-9.7	1000	42CrMo4 ●	📞
	SPE V8/86°		8		0,8			8.7-9.6			
	SPE V10/86°		10		1			8.7-9.6			
	SPE V12/86°		12	25	1,6			10.6-11.7			
	SPE V16/86°		16	30				12.4-13.7			
	SPE V20/86°		20	35	2			12.3-13.5			
	SPE V24/86°		24	40	2,5			14-15.5			

Fam.	Mod.	Sede Groove	Altezza Height	Larghezza Width	Larghezza base Base width	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material	
		A [mm]	H [mm]	W [mm]	B [mm]	L [mm]	K [kg]	F [KN/m]		
SPE 30.01 M	SPE 30.01 M8	8.1	100	40	50	500-550 FR	21-22	500	42CrMo4 ●	📞
	SPE 30.01 M10	10.1		47	57					
	SPE 30.01 M12	12.1								

● temprato=induction hardened ○ bonificato=tempered

NOTE



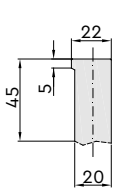


BEYELER – BYSTRONIC
Punzoni/Punches

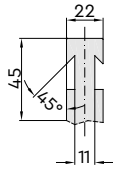
BEYELER-BYSTRONIC PUNZONI/PUNCHES

 Su Richiesta
On request

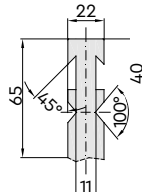
 A Magazzino
On stock



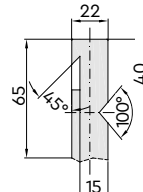
ATT. S



ATT. R

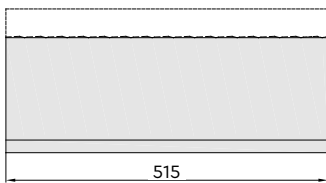


ATT. RF-A

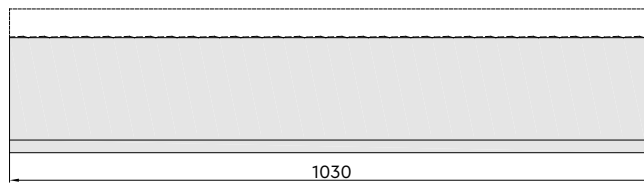


ATT. RF-A SIMM

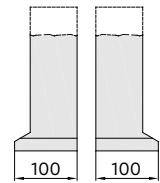
515



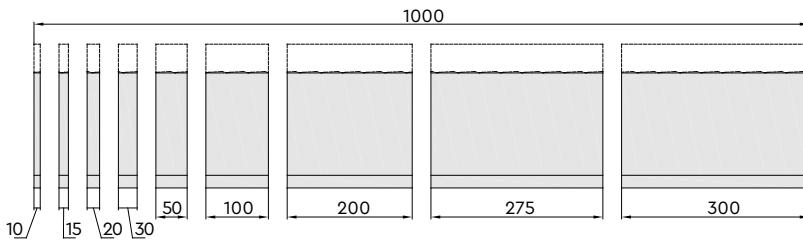
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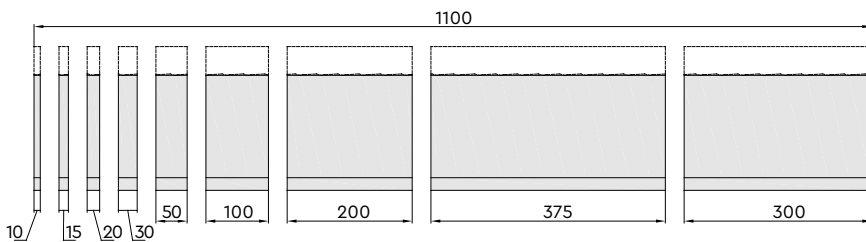
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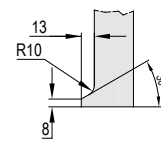
1000 FR/1000 SECT.



1100 FR/1100 SECT.



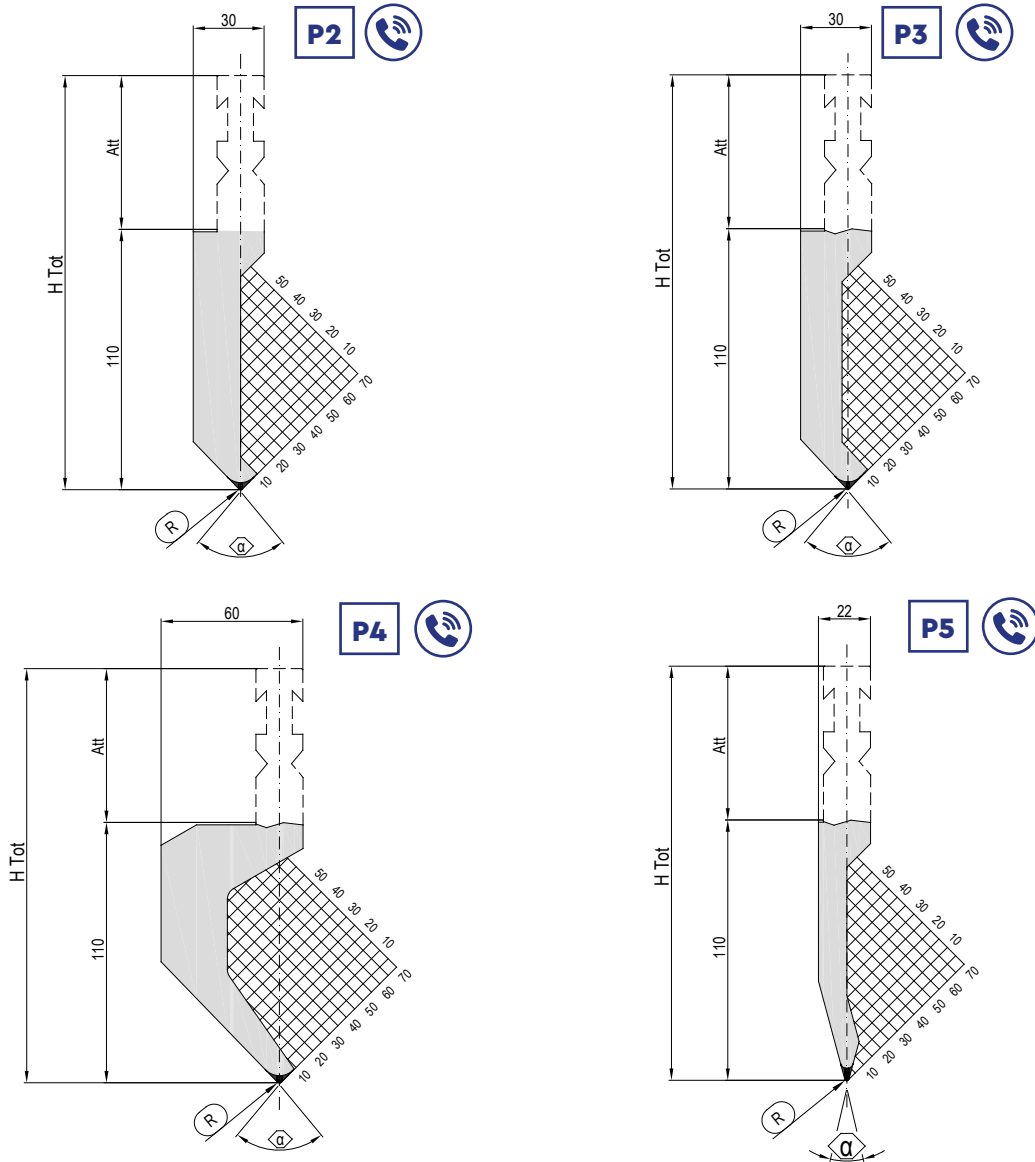
SCARPETTA/HORN



MOD. SC-B1

MATERIALE/MATERIAL

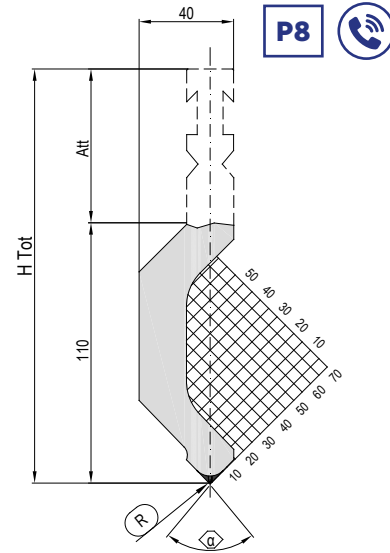
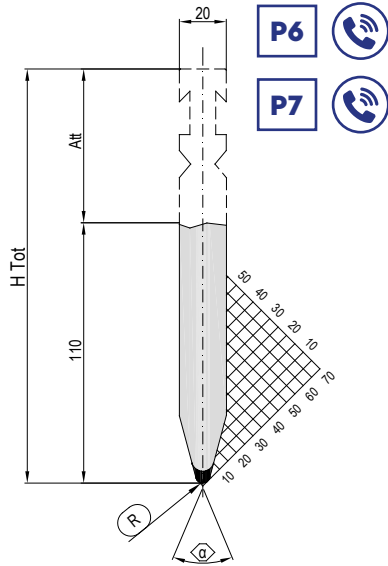
Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Lenght	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]			L [mm]	K [kg]	
P2	P2S	S	88°	1	110	155	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/Horns sets)	SC-B1	25 - 13 - 25	1000	42CrMo4
	P2R	R				27.5 - 4					
	P2RF-A	RF-A				26 - 13 - 26			28.5 - 4		
P3	P3S	S	85°	1	110	155	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/Horns sets)	SC-B1	32 - 16 - 32	1000	42CrMo4
	P3R	R				35 - 5					
	P3RF-A	RF-A				34 - 17 - 34			37.5 - 5		
P4	P4S	S	88°	1.5	110	155	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/Horns sets)	SC-B1	32 - 16 - 32	600	42CrMo4
	P4R	R				35 - 5					
	P4RF-A	RF-A				34 - 17 - 34			37.5 - 5		
P5	P5S	S	30°	1	110	155	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/Horns sets)	SC-B1	16 - 8 - 16	600	42CrMo4
	P5R	R				17.5 - 2.5					
	P5RF-A	RF-A				17 - 9 - 17			18.5 - 2.5		

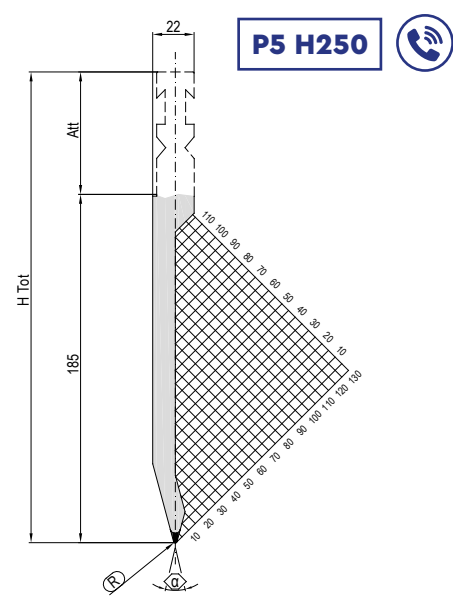
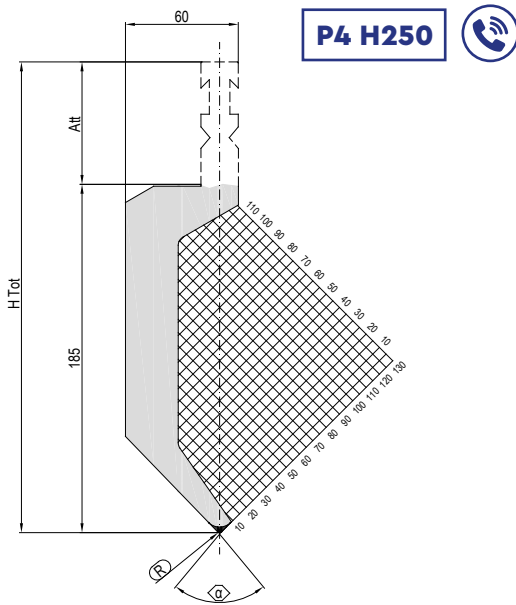
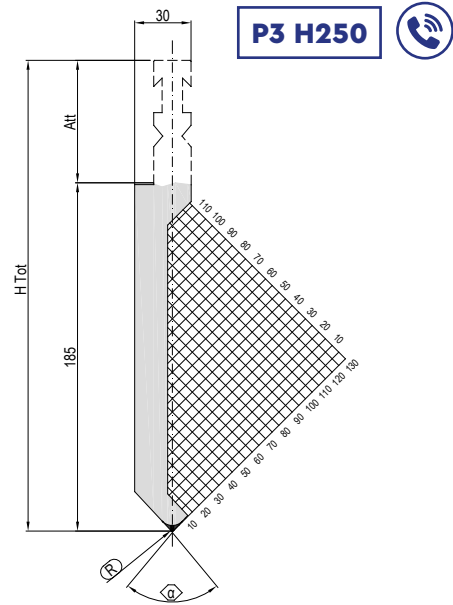
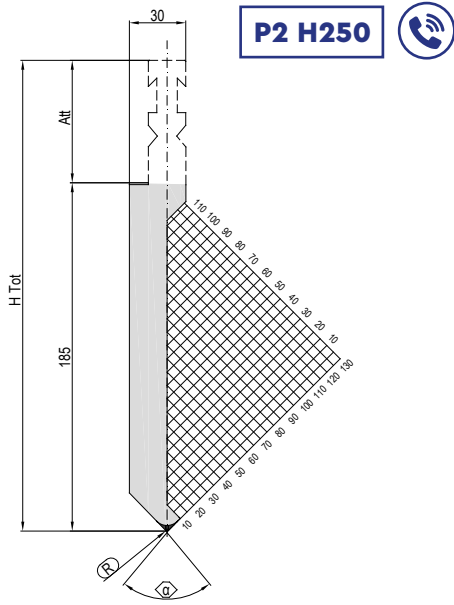
● temprato=Induction hardening ○ bonificato=tempered

BEYELER-BYSTRONIC PUNZONI/PUNCHES



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Height	Lunghezza Length	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]		K [kg]	F [KN/m]	
P6-7	P6S	S	30°	1	110	155	51030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/Horns sets)	SC-B1	24 - 12 - 24	1200	42CrMo4
	P6R	R				175			26.5 - 3.5		
	P6RF-A	RF-A				25 - 13 - 25			27.5 - 4		
	P7S	S		3		155	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/Horns sets)		24 - 12 - 24		
	P7R	R				175			26.5 - 3.5		
	P7RF-A	RF-A				25 - 13 - 25			27.5 - 4		
P8	P8S	S	88°	1	110	155	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/Horns sets)	SC-B1	30 - 15 - 30	800	42CrMo4
	P8R	R				175			33 - 4.5		
	P8RF-A	RF-A				32 - 16 - 32			35 - 5		

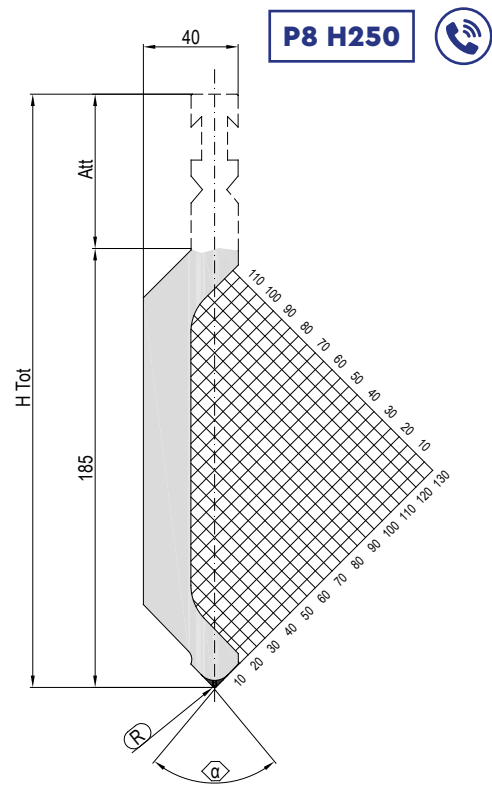
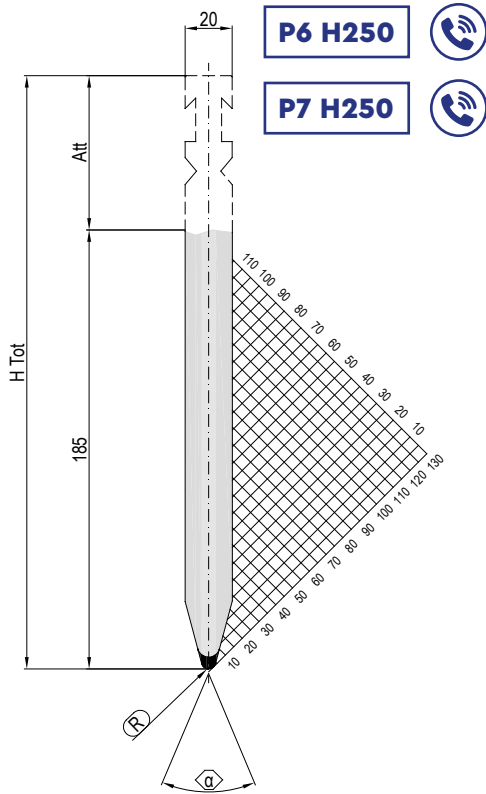
● temprato=Induction hardening ○ bonificato=tempered



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Lenght	Modello Scarpette Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]		K [kg]	F [KN/m]	
P2 H250	P2RF-A H250	RF-A	88°	1	185	250	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/ Horns sets)	SC-B1	40 - 20 40 - 44 - 6	900	42CrMo4 ●
P3 H250	P3RF-A H250	RF-A	85°	1	185	250	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/ Horns sets)	SC-B1	50 - 25 50 - 55 7.5	900	42CrMo4 ●
P4 H250	P4RF-A H250	RF-A	88°	1.5	185	250	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/ Horns sets)	SC-B1	50 - 25 50 - 55 7.5	500	42CrMo4 ●
P5 H250	P5RF-A H250	RF-A	30°	1	185	250	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/ Horns sets)	SC-B1	28 - 14 - 28 31 - 4	700	42CrMo4 ●

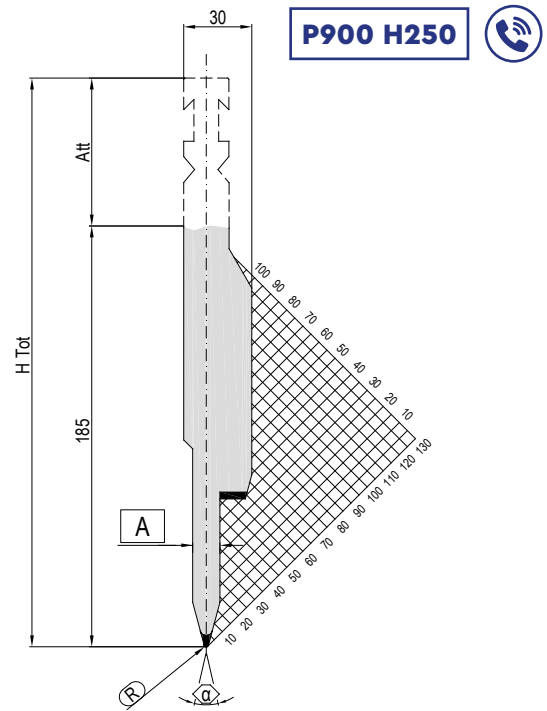
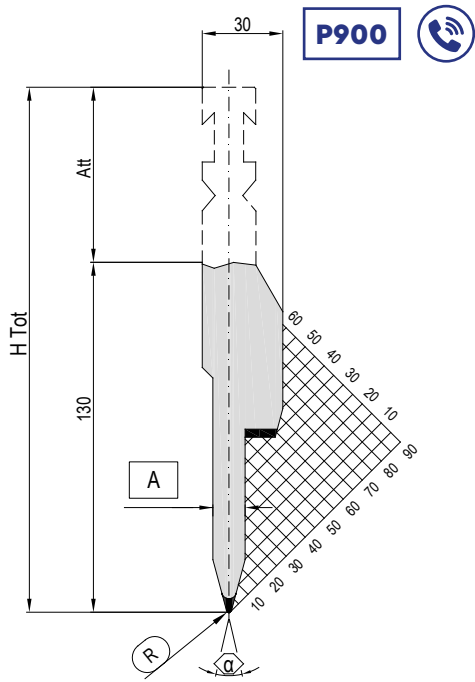
● temprato=Induction hardening ○ bonificato=tempered

BEYELER-BYSTRONIC PUNZONI/PUNCHES



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot. Height	Lunghezza Length	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]		K [kg]	F [KN/m]	
P6-7 H250	P6RF-A H250	RF-A	30°	1	185	250	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/ Horns sets)	SC-B1	36 - 18	1100	42CrMo4
	P7RF-A H250			3					36 - 40		
P8 H250	P8RF-A H250	RF-A	88°	1	185	250	1030 - 515 -1000 FR - 1100 FR - 200 (Set Scarpette/ Horns sets)	SC-B1	46 - 23 46 - 50.5 7	700	42CrMo4

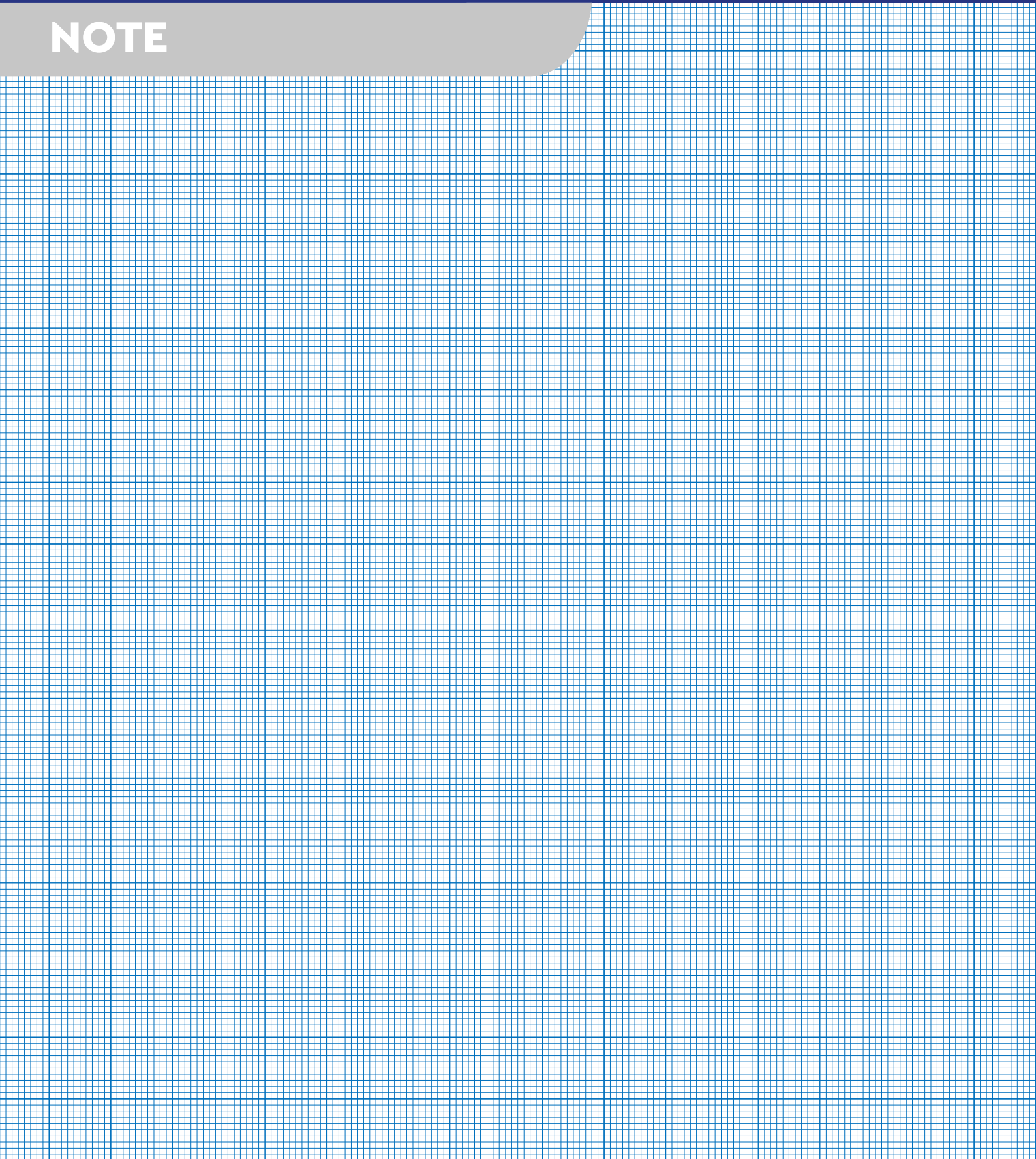
● temprato=Induction hardening ○ bonificato=tempered

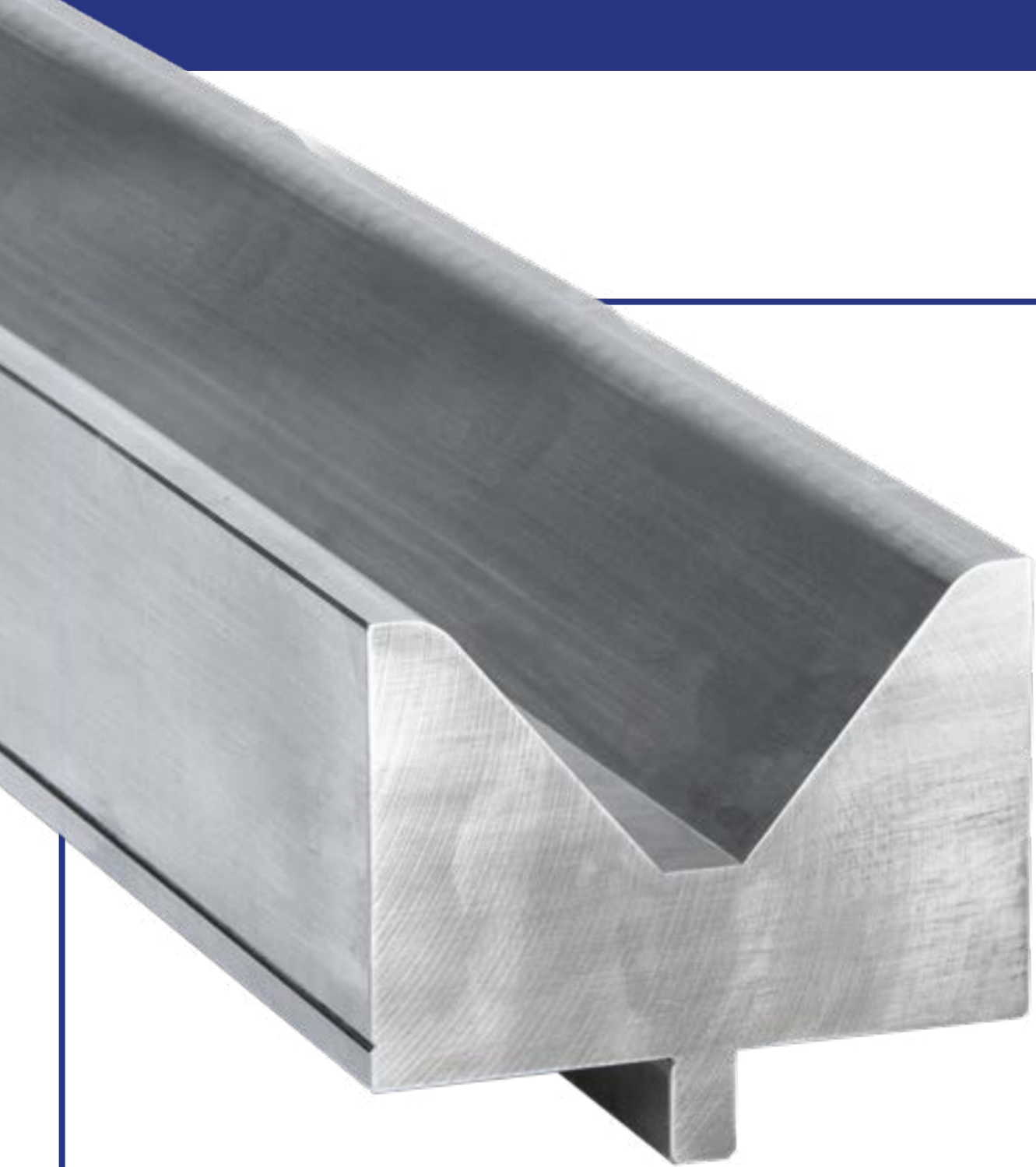


Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Spessore Thick-ness	Altezza Height	Altezza tot Tot. Height H Tot [mm]	Lunghezza Length	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	A	H [mm]	L [mm]	K [kg]		F [kN/m]		
P900	P900S-8	S	30°	1	8	130	175	1030 - 515 1000 FR - 1100 FR	SC-B1	24 - 12 24 - 26.5	800	42CrMo4
	P900S-10				10					26 - 13 26 - 28.5		
	P900S-12				12					28 - 14 28 - 31		
	P900R-8	8			24 - 12 24 - 26.5							
	P900R-10	10			26 - 13 26 - 28.5							
	P900R-12	12			28 - 14 28 - 31							
	P900RF-A-8	RF-A			8		26 - 13 26 - 28.5					
	P900RF-A-10				10		28 - 14 28 - 31					
	P900RF-A-12				12		30 - 15 30 - 33					
P900 H250	P900RF-A H250 - 8	RF-A	30°	1	8	185	250	1030 - 515 1000 FR - 1100 FR	SC-B1	24 - 12 24 - 26.5	700	42CrMo4
	P900RF-A H250 - 10				10					26 - 13 26 - 28.5		
	P900RF-A H250 - 12				12					28 - 14 28 - 31		

● temprato=Induction hardening ○ bonificato=tempered

NOTE





BEYELER – BYSTRONIC
Matrici/Dies

BEYELER-BYSTRONIC MATRICI/DIES

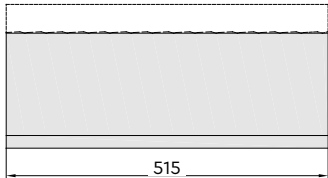


Su Richiesta
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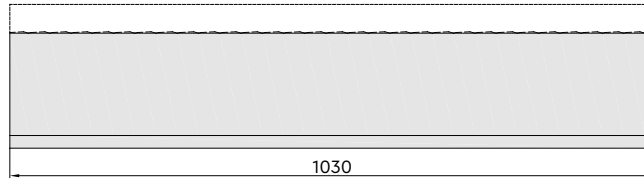


A Magazzino
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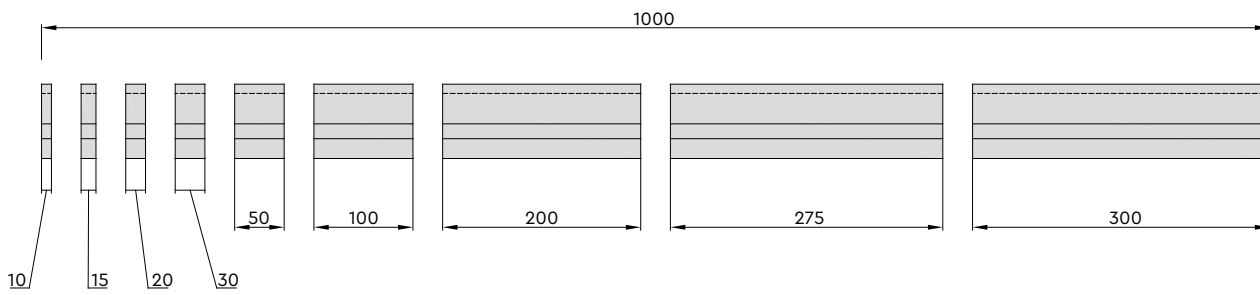
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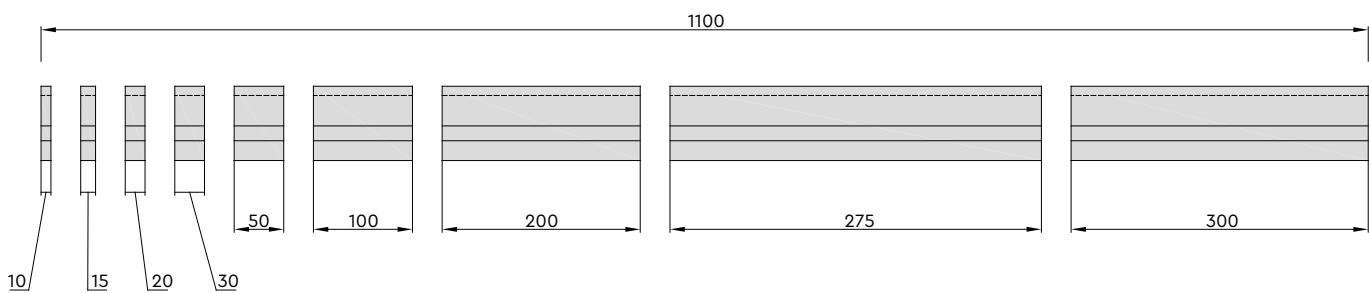
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1000 FR/1000 SECT.

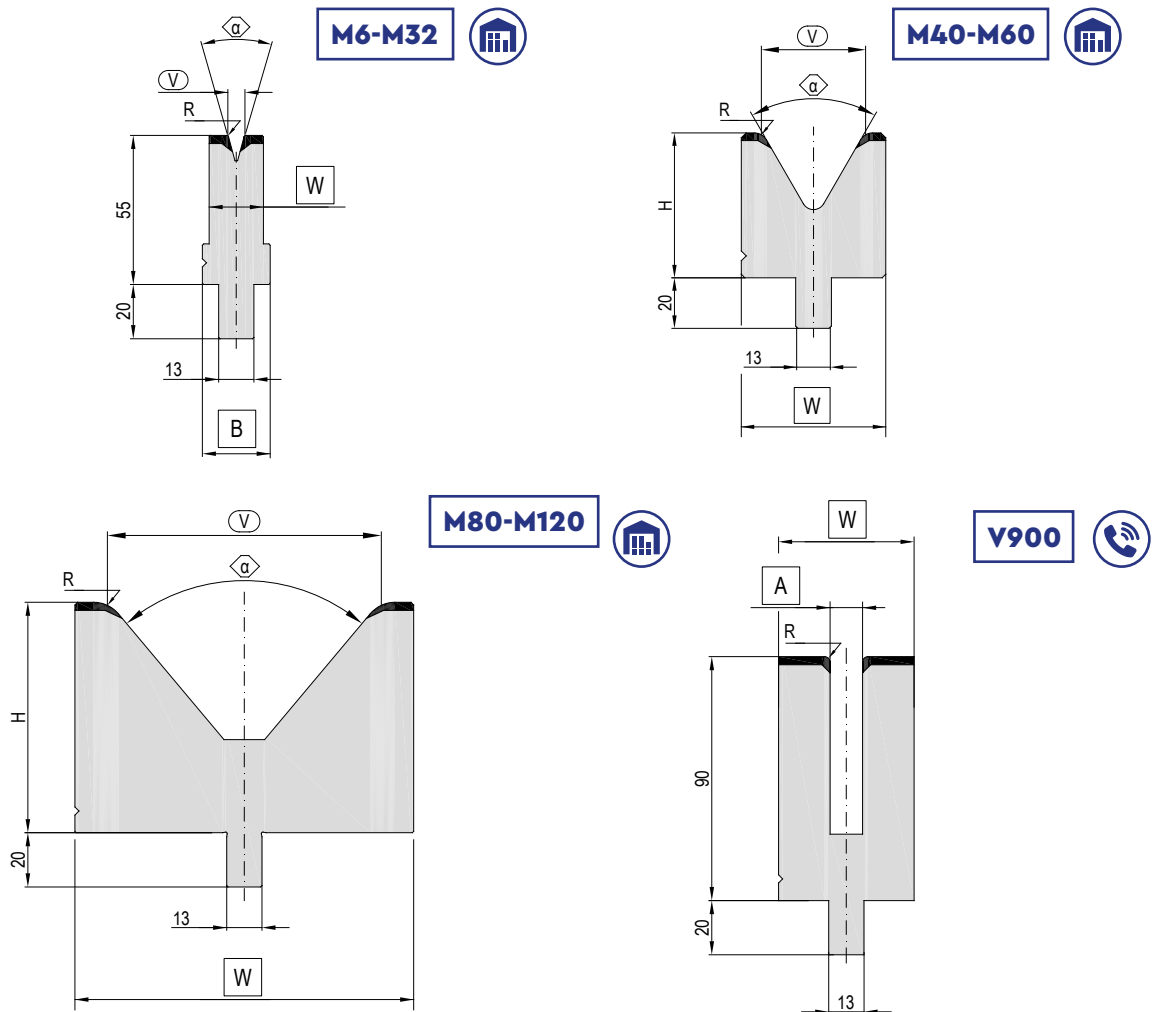


1100 FR/1100 SECT.



MATERIALE/MATERIAL

Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55

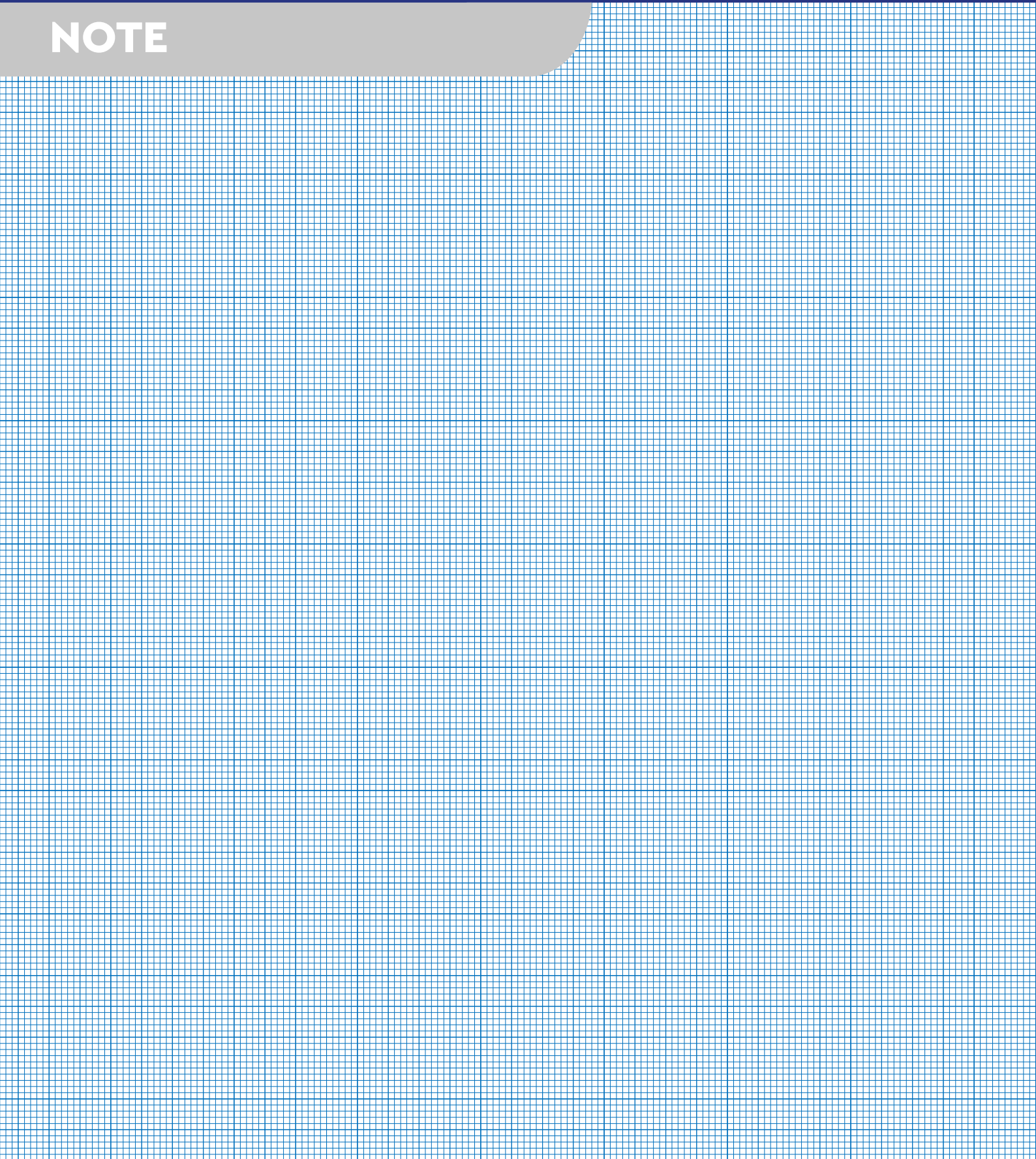


Fam.	Mod.	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Larghezza base Base width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		α [°]	V [mm]	R [mm]	H [mm]	W [mm]	B [mm]	L [mm]	K [kg]	F [KN/m]	
M6-M32	M6/30°	30°	6	0.75	55	20	25	1030 - 515 - 1000 FR - 1100 FR	11-5.5-11-12	750	42CrMo4
	M8/30°		8	1					25	600	
	M10/30°		10	1							
	M12/30°		12	1.5							
	M16/30°		16	2							
	M20/30°		20	2.5							
	M24/30°		24	3		40	16-8-16-17.5		600		
M32/30°	32	4	48	17-8.5-17-18.5	900						
M40-M60	M40/60°	60°	40	5	55	55	1030 - 515 - 1000 FR - 1100 FR	20-10-20-22	1600	42CrMo4	
	M50/60°		50			70		24-12-24-26.5	1400		
	M60/60°		60			80		32-16-32-35	1400		
M80-M120	M80/80°	80°	80	10	65	100	1030 - 515 - 1000 FR - 1100 FR	38-19-38-42	1400	42CrMo4	
	M100/80°		100	12	85	125		62-31-62-68	2000		
	M120/80°		120	15	105	160		100-50-100-110			

Fam.	Mod.	Sede Groove	Raggio Radius	Altezza Height	Larghezza Tot Width Tot.	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		A [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
V900	V900 8	8.1	1	90	40	1030 - 515 -1000 FR - 1100 FR	38-19-38-42	500	42CrMo4
	V900 10	10.1	2		50		39-19.5-39-42		
	V900 12	12.1					40-20-40-44		

● temprato=induction hardened ○ bonificato=tempered

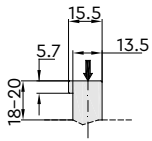
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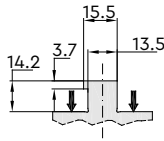


COLLY-HACO

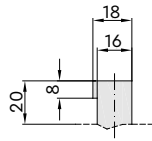
Punzoni/Punches



ATT. TOP

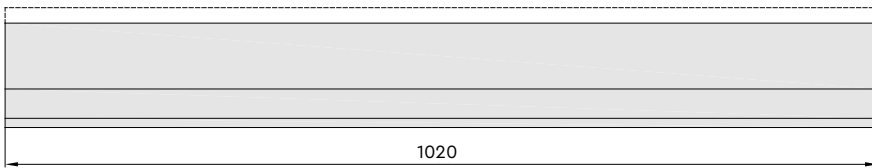


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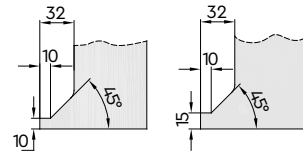


ATT. REINF

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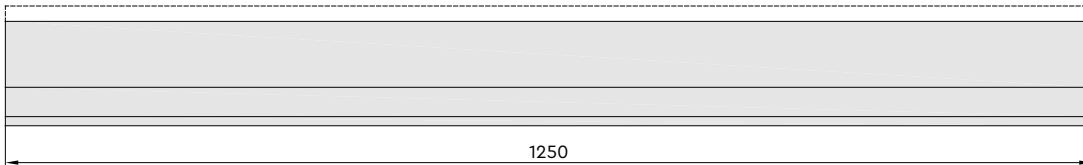
SCARPETTE/HORNS



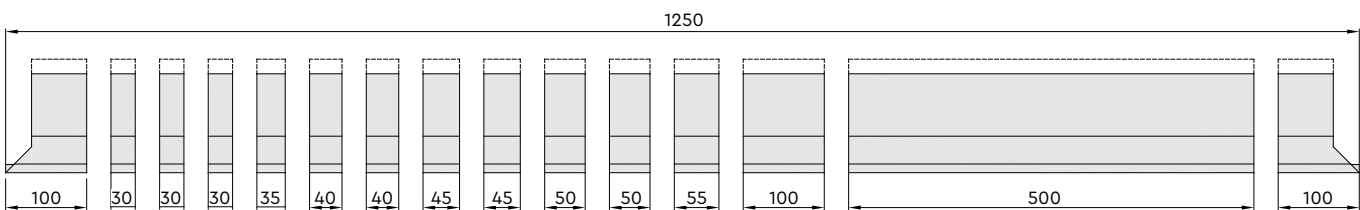
MOD. SC-C1

MOD. SC-C2

1250

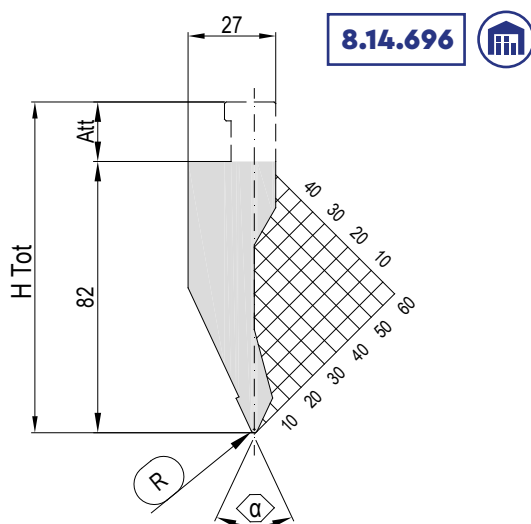
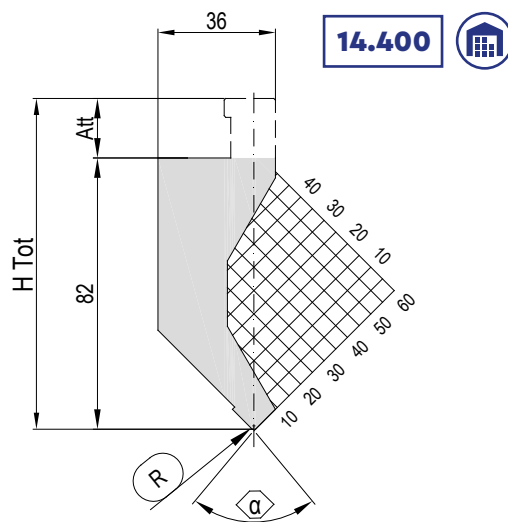
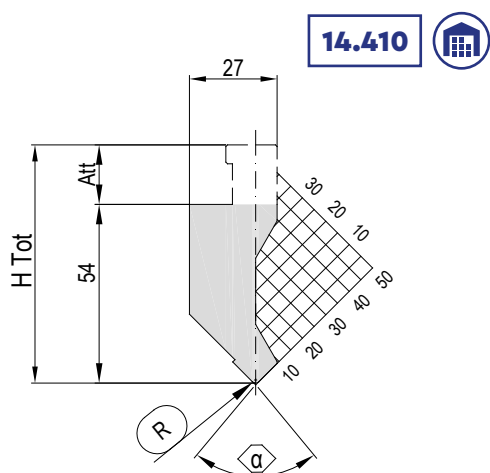


1250 FR/1250 SECT.



MATERIALE/MATERIAL

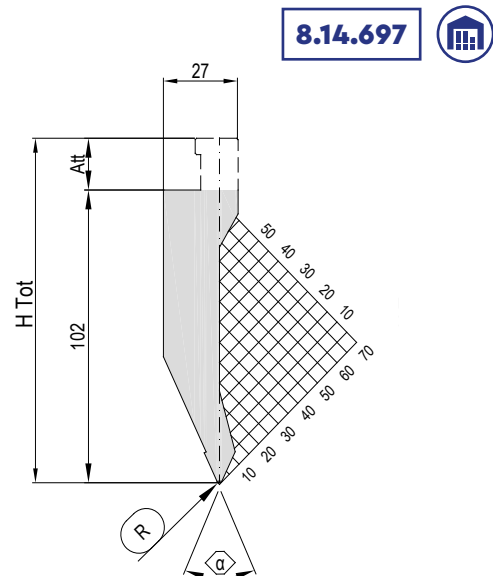
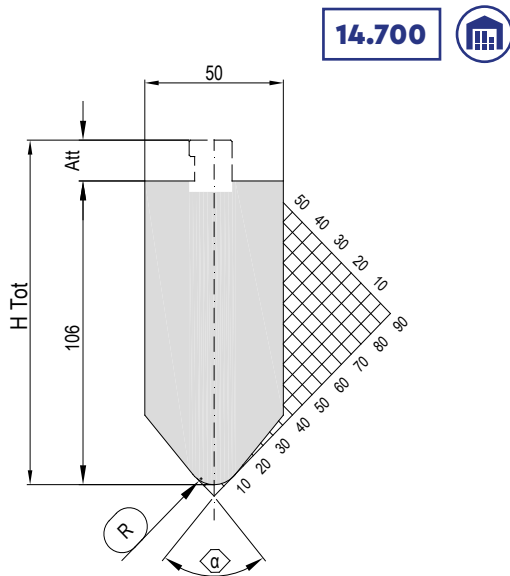
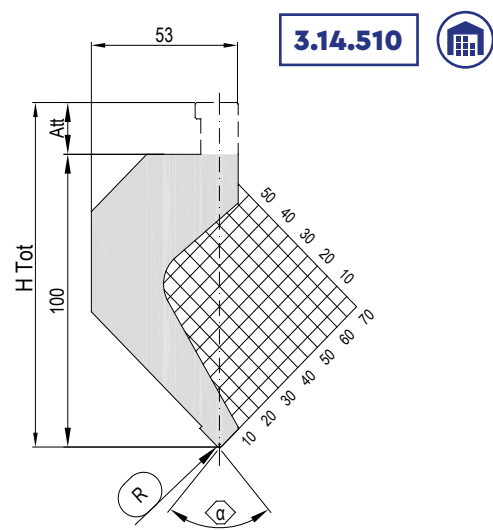
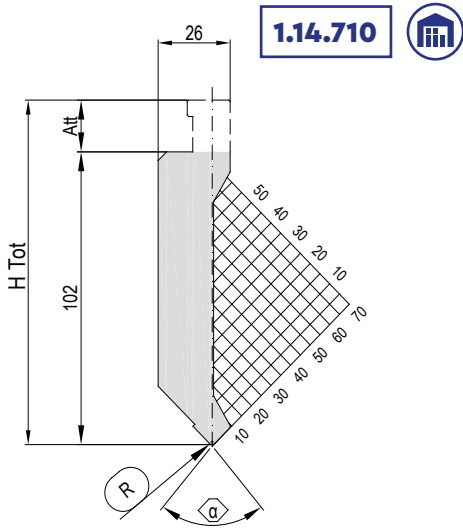
Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Lenght	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]		K [kg]	F [KN/m]	
14.410	14.411/90°	TOP	90°	1.4	54	72	1020-1250-1250 FR	SC-C-1	10-12.3-12.3	700	42CrMo4 ●
	14.412/85°		85°	0.6							
14.400	14.401/90°	TOP	90°	1	82	100	1020-1250-1250 FR	SC-C-1	17-20.6-20.6	500	42CrMo4 ●
	14.402/85°		85°								
8.14.696	8.14.696/50°	TOP	50°	1	82	100	1020-1250-1250 FR	SC-C-1	13.5-16.4-16.4	1000	42CrMo4 ●

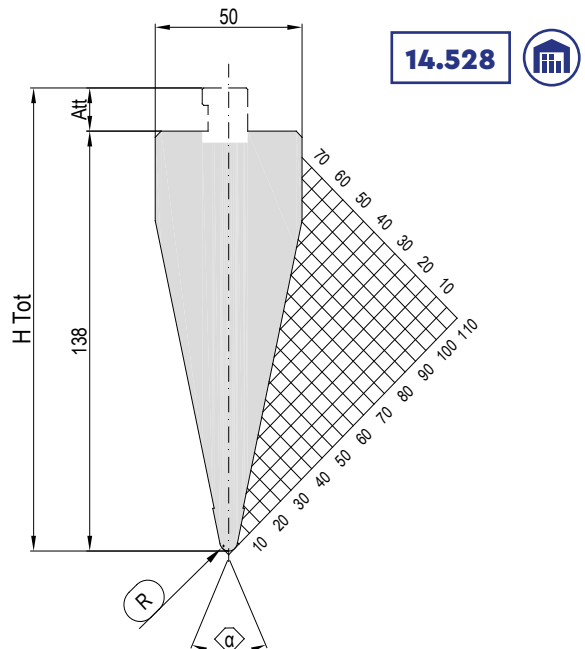
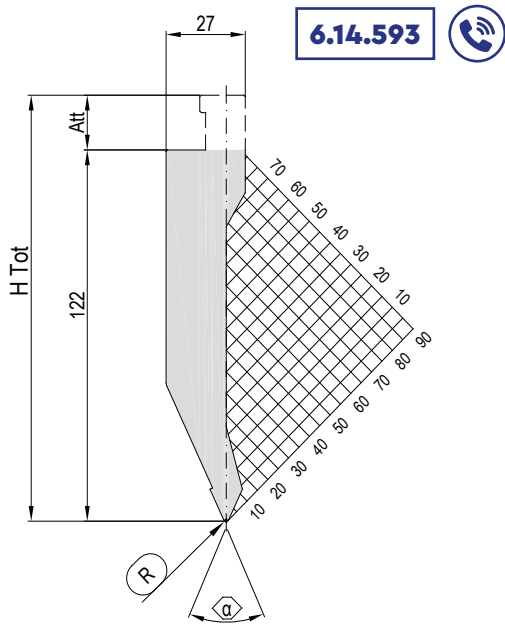
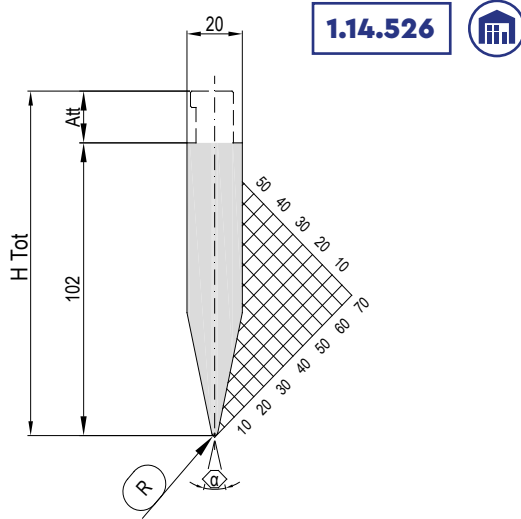
● temprato=induction hardened ○ bonificato=tempered

COLLY PUNZONI/PUNCHES



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Lenght	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]		K [kg]	F [KN/m]	
1.14.710	1.14.715/90°	TOP	90°	1.4	102	120	1020-1250-1250 FR	SC-C-1	18-22-22	700	42CrMo4 ●
	1.14.716/85°		85	0.6							
3.14.510	3.14.515/90°	TOP	90°	1.4	100	120	1020-1250-1250 FR	SC-C-1	25.7-31.5-31.5	450	42CrMo4 ●
	3.14.516/85°		85	0.6							
14.700	14.705/80°	SIDE	80°	10	106	120	1020-1250-1250 FR	SC-C-1	38.6-47.3-47.3	3000	42CrMo4 ●
	14.758/80°			3							
8.14.697	8.14.697/50°	TOP	50°	1	102	120	1020-1250-1250 FR	SC-C1	16.8-20.5-20.5	1000	42CrMo4 ●

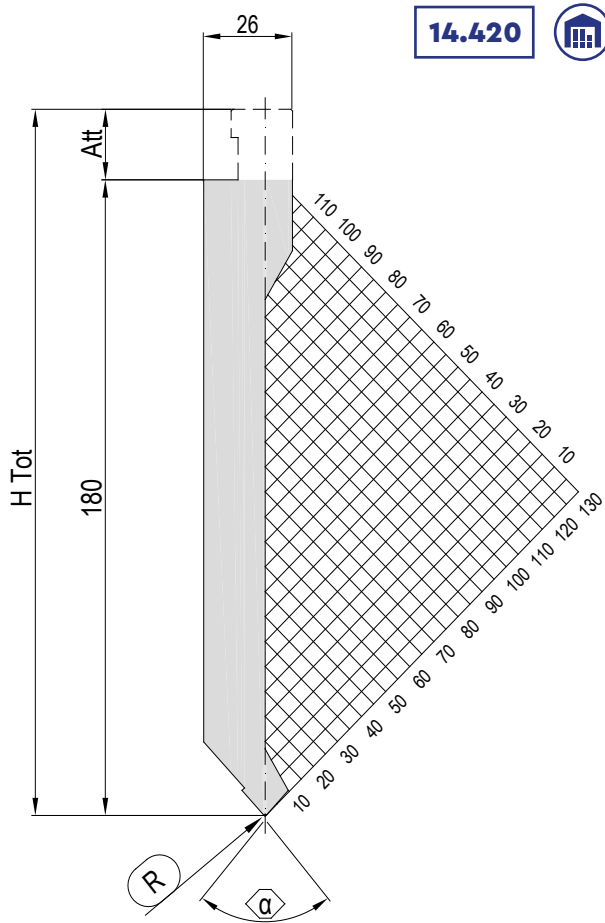
● temprato=induction hardened ○ bonificato=tempered



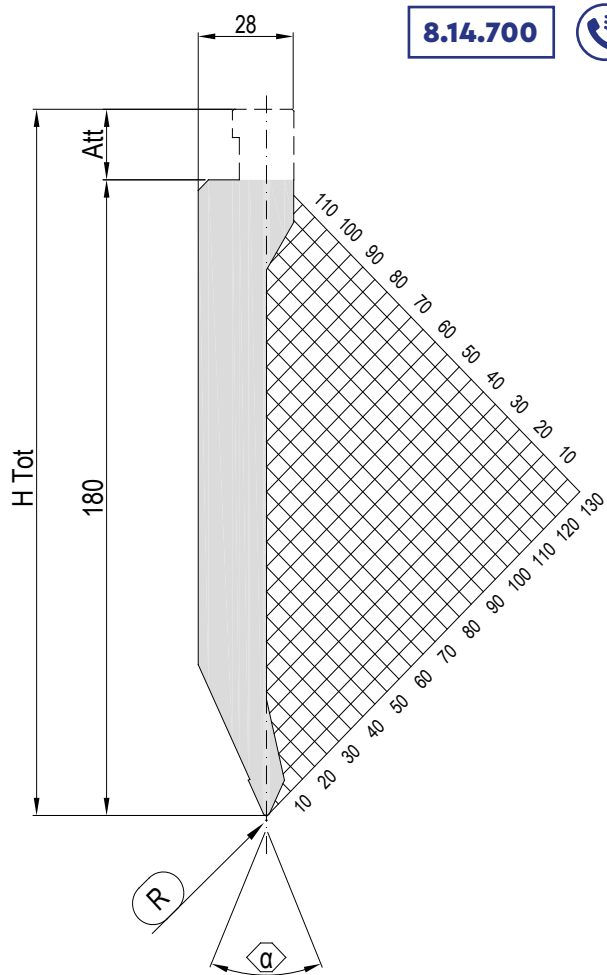
Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot. Height	Lunghezza Lenght	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]		K [kg]	F [KN/m]	
1.14.526	1.14.526/24°	TOP	24°	1.1	102	120	1020-1250-1250 FR	SC-C2	15.5-19-19	1300	42CrMo4 ●
6.14.593	6.14.593/50°	TOP	50°	1	122	140	1020-1250-1250 FR	SC-C1	20.2- 24.8-24.8	1000	42CrMo4 ●
14.528	14.528/26°	SIDE	26°	2	138	152	1020-1250-1250 FR	SC-C2	37-45.3- 45.3	1500	42CrMo4 ●

● temprato=induction hardened ○ bonificato=tempered

COLLY PUNZONI/PUNCHES



14.420



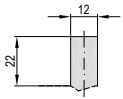
8.14.700



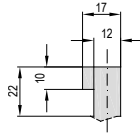
Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot. Height	Lunghezza Lenght	Modello Scarpetta Horn Mod.	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]		K [kg]	F [KN/m]	
14.420	14.421/90°	REINF.	90°	1,4	180	200	1020-1250-1250 FR	SC-C1	29.6- 36.2-36.2	1000	42CrMo4 ●
	14.422/85°		85°	0,6							
8.14.700	8.14.700/50°	REINF.	50°	1	180	200	1020-1250-1250 FR	SC-C1	30.2-37- 37	1000	42CrMo4 ●

● temprato=induction hardened ○ bonificato=tempered

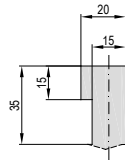




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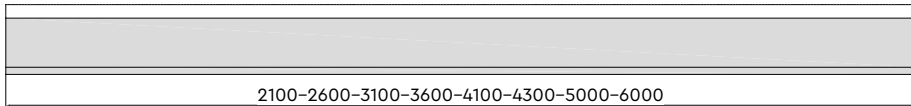


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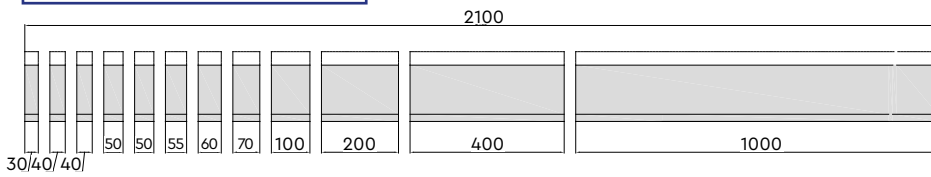


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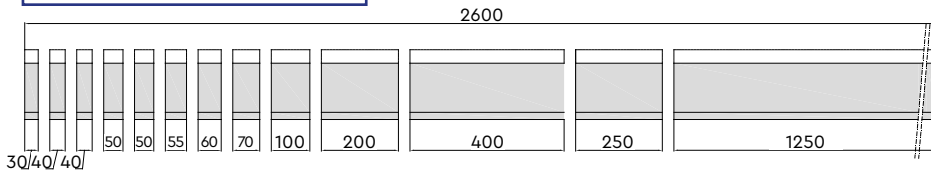
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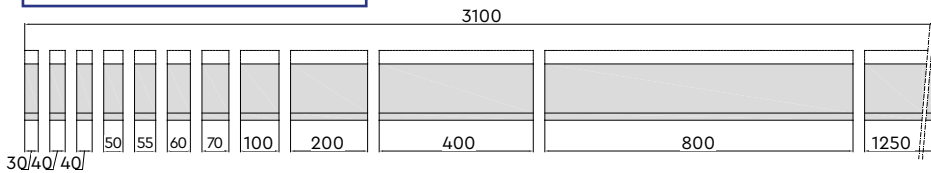
2100 FR/2100 SECT.



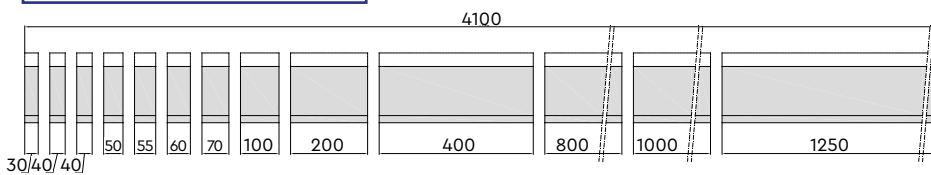
2600 FR/2600 SECT.



3100 FR/3100 SECT.

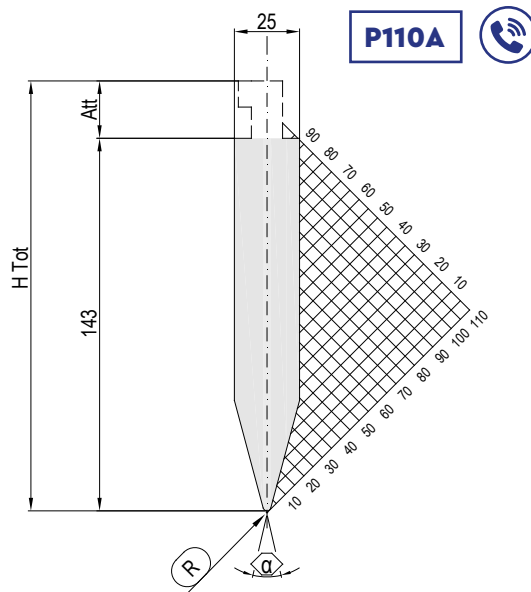
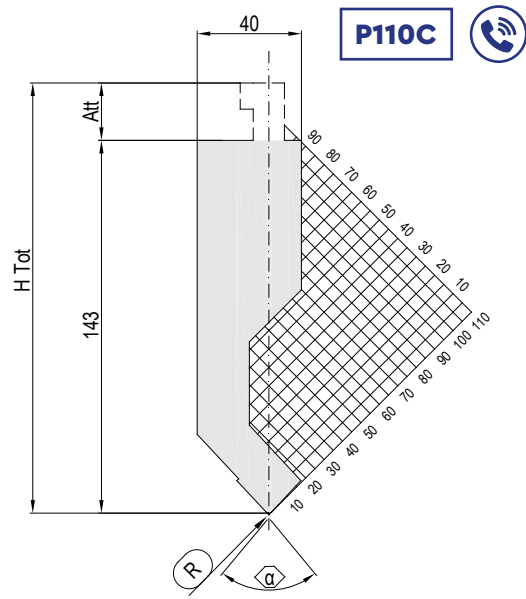
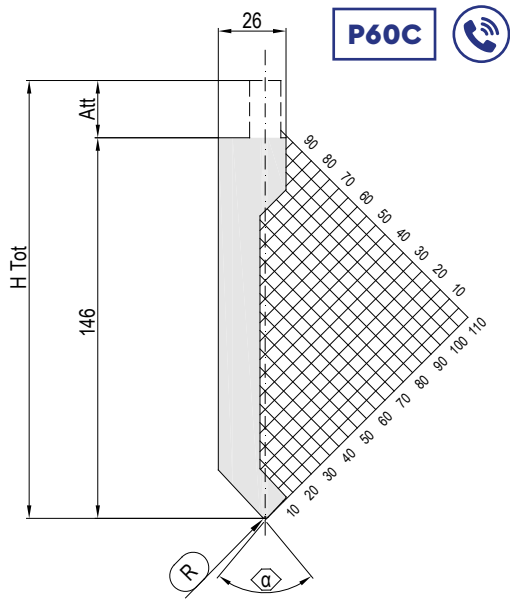


4100 FR/4100 SECT.



MATERIALE/MATERIAL

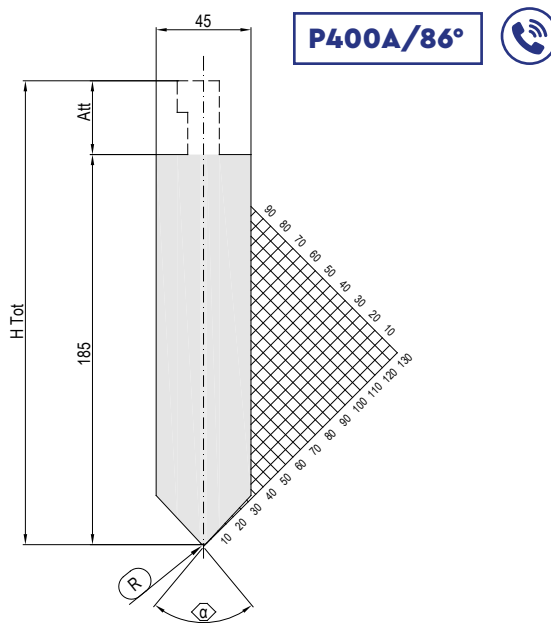
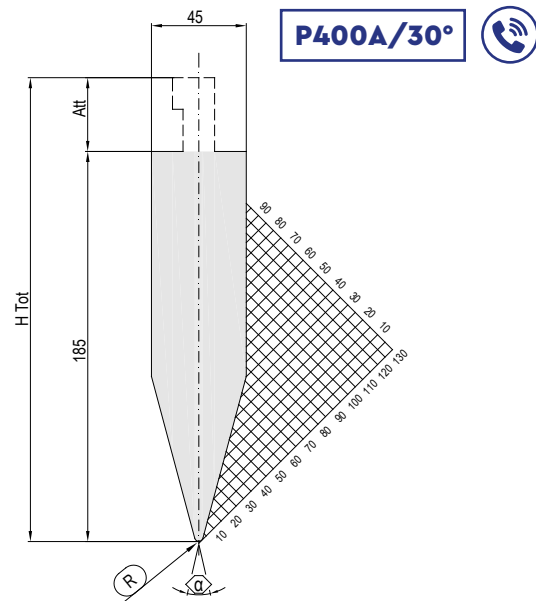
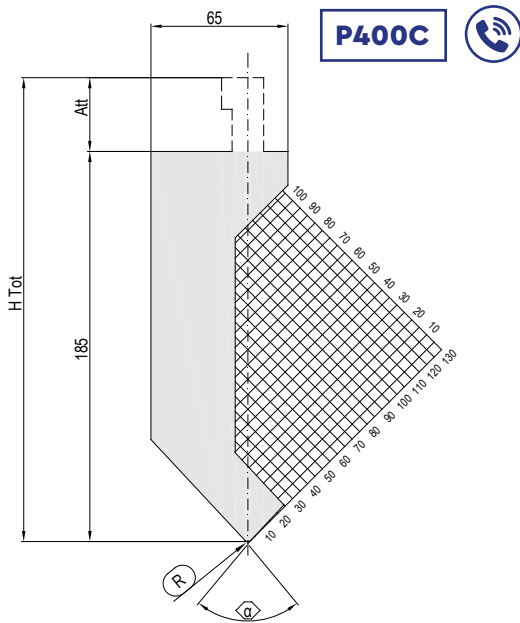
Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot. Tot. Height	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]	K [kg]	F [KN/m]	
P60C	P60C	FLAT	86°	1.5	146	168	2100-2600-3100	46-57-68	1000	42CrMo4 ○
P110C	P110C	<150T	86°	1.5	143	165	2100-2600-3100 3600-4100-4300	74-92-110-128 146-152	700	42CrMo4 ○
P110A	P110A	<150T	30°	1.5	143	165	2100-2600-3100 3600-4100-4300	56-69-82-95 109-114	1300	42CrMo4 ○

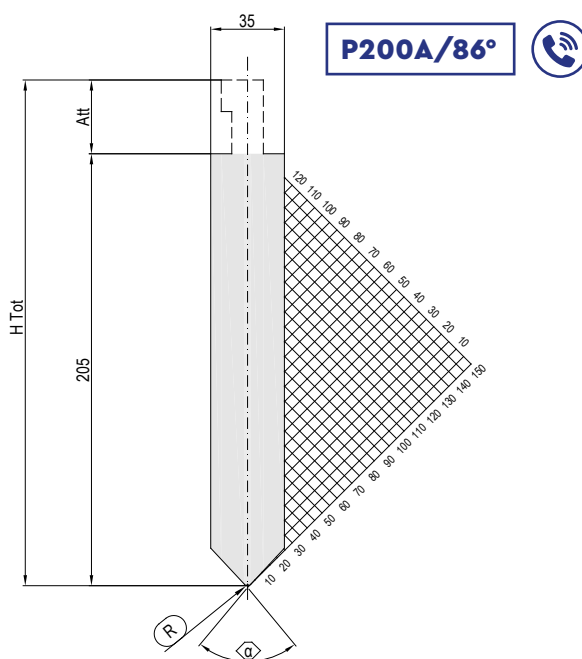
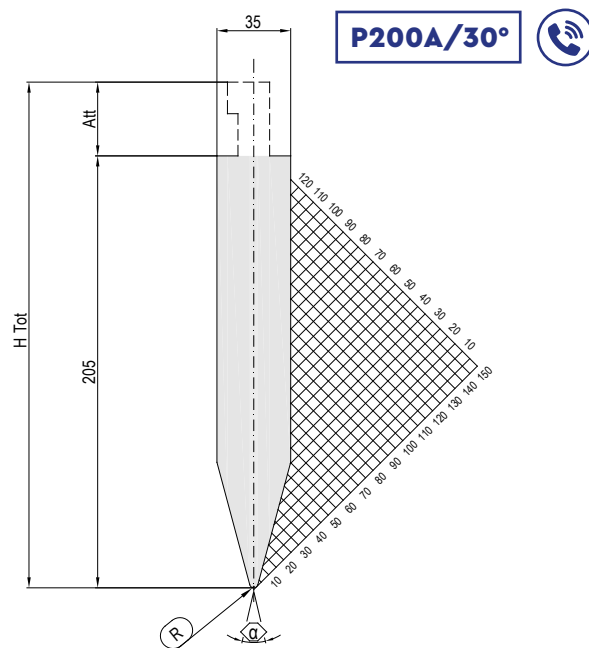
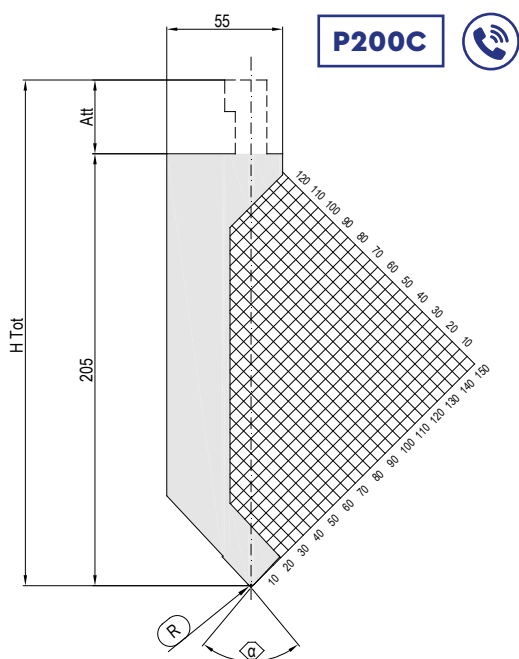
● temprato=induction hardened ○ bonificato=tempered

HACO PUNZONI



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot. Height	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]	K [kg]	F [KN/m]	
P400C	P400C	>150T	86°	2	185	220	3100-3600-4100 4300-5000-6000	175-203-232 243-283-339	1500	42CrMo4 ○
P400A/30°	P400A/30°	>150T	30°	2	185	220	3100-3600-4100 4300-5000-6000	175-203-232 243-283-339	2000	42CrMo4 ○
P400A/86°	P400A/86°	>150T	86°	2	185	220	3100-3600-4100 4300-5000-6000	175-203-232 243-283-339	3000	42CrMo4 ○

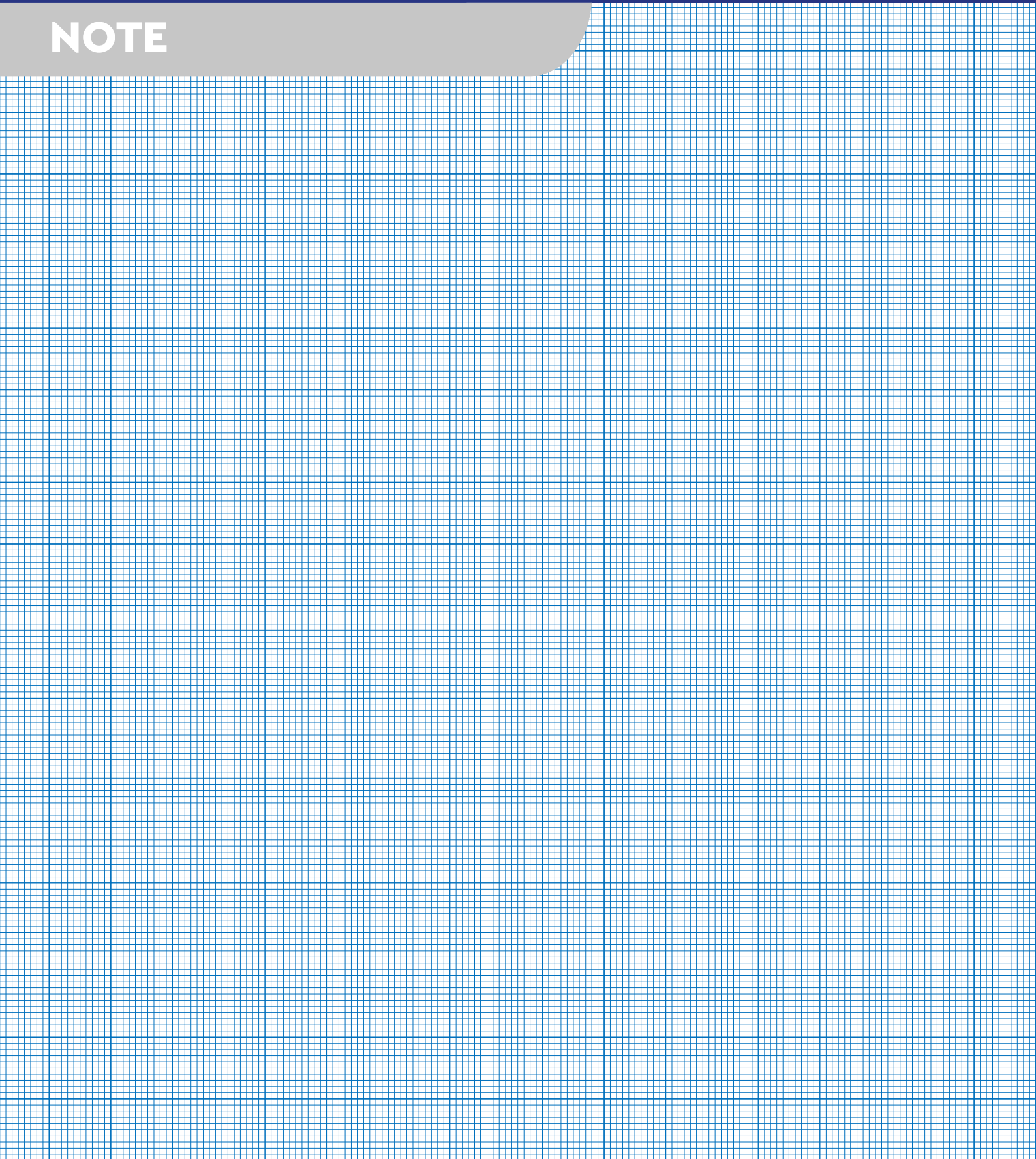
● temprato=induction hardened ○ bonificato=tempered



Fam.	Mod.	Tipo Attacco Att. type	Angolo Angle	Raggio Radius	Altezza Height	Altezza tot Tot. Height	Lunghezza Lenght	Peso Weight	Forza Force	Materiale Material
			α [°]	R [mm]	H [mm]	H Tot [mm]	L [mm]	K [kg]	F [KN/m]	
P200C	P200C	>150T	86°	2	205	240	2600-3100-3600 4100-4300 5000-6000	143-170-198-225 237-275-330	1300	42CrMo4 ○
P200A/30°	P200A/30°	>150T	30°	2	205	240	2600-3100-3600 4100-4300 5000-6000	138-165-191-217 228-265-318	1750	42CrMo4 ○
P200A/86°	P200A/86°	>150T	86°	2	205	240	2600-3100-3600 4100-4300 5000-6000	138-165-191-217 228-265-318	2500	42CrMo4 ○

● temprato=induction hardened ○ bonificato=tempered

NOTE



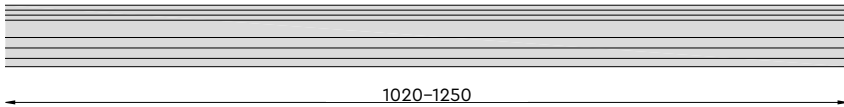


COLLY-HACO

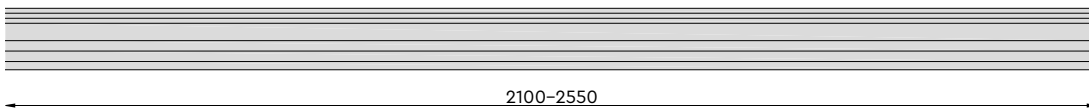
Matrici/Dies



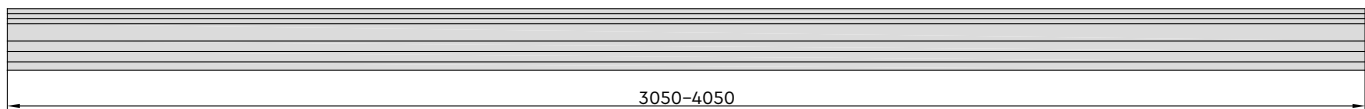
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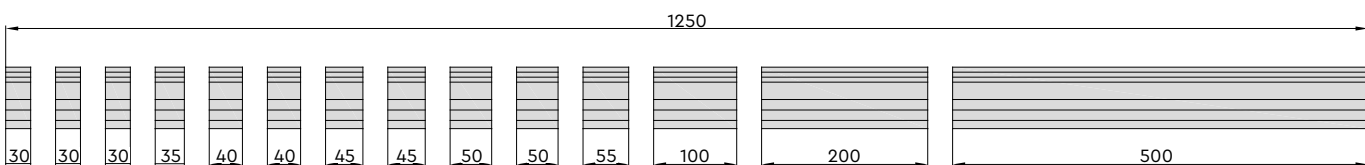
2100-2550



3050-4050

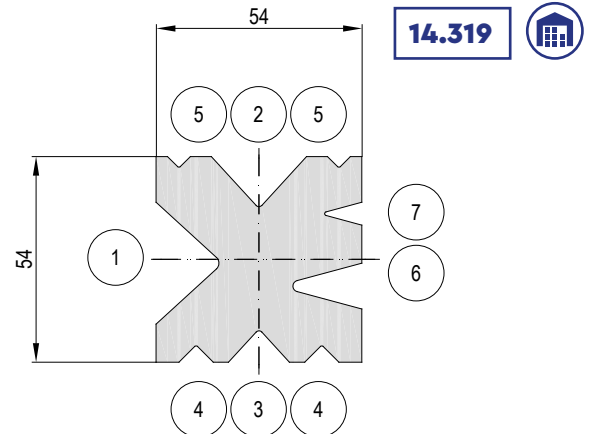
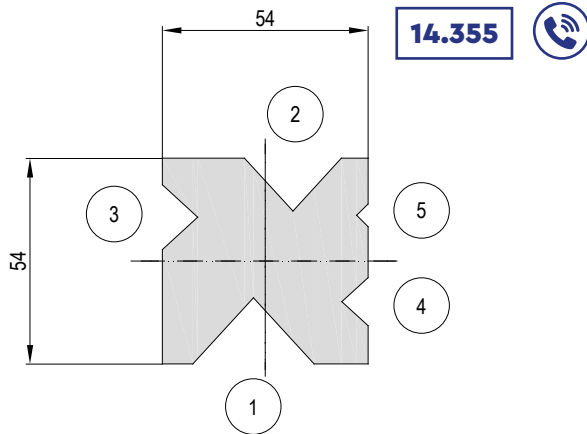


1250 FR/1250 SECT.



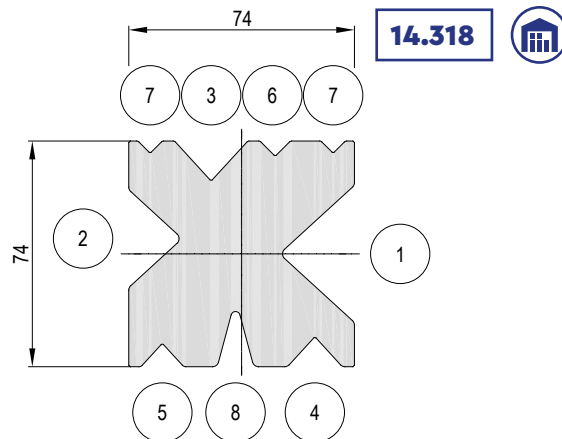
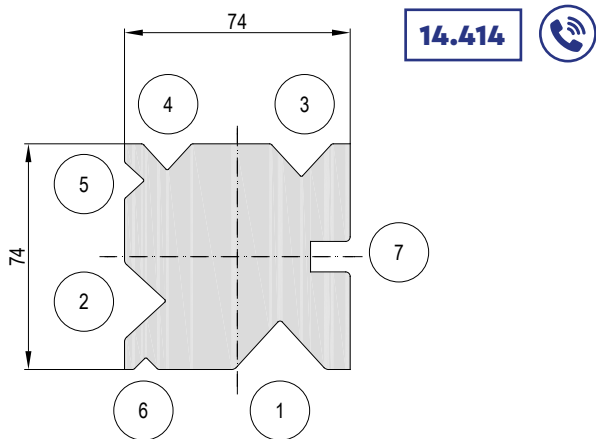
MATERIALE/MATERIAL

Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55



Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
14.355	14.355	1	85°	32	2	54	54	1020 - 1250 - 2100 - 2550 - 3050 - 4050 - 1250 FR	19 - 24 - 40 - 48,5 - 58 - 77 - 24	1000	42CrMo4 ○
		2		25							
		3		17	1						
		4		12							
		5	90°	6							
14.319	14.319	1	85°	32	2	54	54	1020 - 1250 - 2100 - 2550 - 3050 - 4050 - 1250 FR	19 - 24 - 40 - 48,5 - 58 - 77 - 24	1000	42CrMo4 ○
		2		25							
		3		16	1						
		4	90°	9							
		5	6								
		6	30°	12							
		7	6	1							

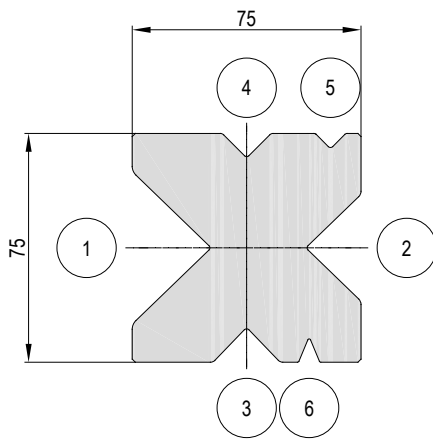
● temprato=induction hardened ○ bonificato=tempered



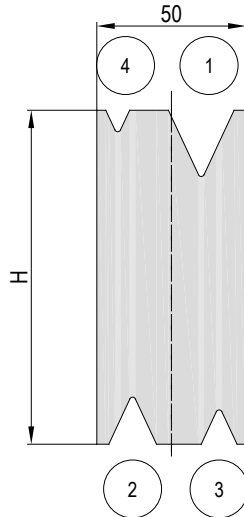
Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
14.414	14.414	1	85°	30	2	74	74	1020 - 1250 - 2100 - 2550- 3050 - 4050 - 1250 FR	37.5 - 46 - 77 - 93.5 - 112 - 149 - 46	400	42CrMo4 ○
		2		25							
		3		20							
		4		16							
		5		12	1						
		6	90°	8							
		7	U	10×13							
14.318	14.318	1	85°	45	2	74	74	1020 - 1250 - 2100 - 2550- 3050 - 4050 - 1250 FR	33.5 - 41 - 69 - 84 - 99.5 - 132 - 41	800	42CrMo4 ○
		2		32							
		3		24	1						
		4		18	2						
		5		14	1						
		6	90°	10							
		7	90°	8							
		8	30°	12	2						

● temprato=induction hardened ○ bonificato=tempered

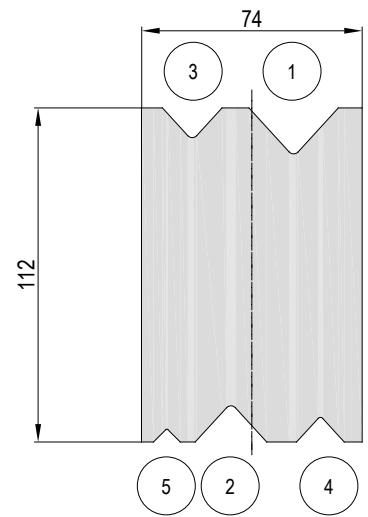
M01 






6.14.700 



14.519 



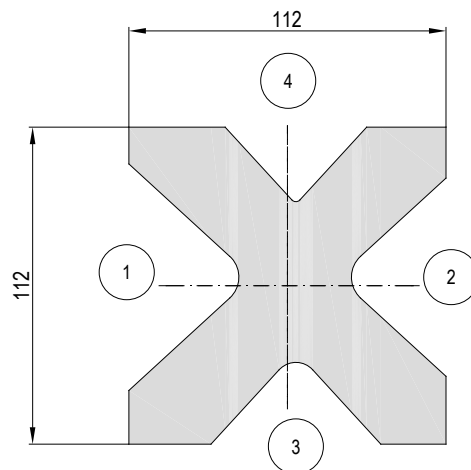
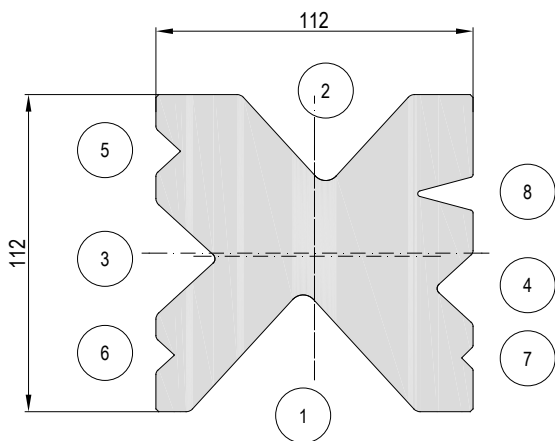
Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
M01	M01	1	88°	50	4	75	75	1020 -1250 - 2100 - 2550- 3050 - 4050 - 1250 FR	36.5 - 45 - 75 - 91 - 109 - 145 - 45	1000	42CrMo4 
		2		35	2.5						
		3		22	2						
		4	90°	16	2						
		5		10	1.5						
		6		45°	7						
6.14.700	6.14.767	1	50°	22	1	54	50	1020 -1250 - 2100 - 2550- 3050 - 4050 - 1250 FR	17.5 - 21.5 - 36 - 44 - 52 - 67 - 21.5	800	42CrMo4 
		2		16							
		3		12							
		4		8							
	6.14.768	1		22		74					
		2		16							
		3		12							
		4		8							
	6.14.769	1		22		94					
		2		16							
		3		12							
		4		8							
	6.14.770	1		22		112					
		2		16							
		3		12							
		4		8							
14.519	14.519	1	85°	30	2	112	74	1020 -1250 - 2100 - 2550- 3050 - 4050 - 1250 FR	19 - 24 - 40 - 48.5 - 58 - 77 - 24	1500	42CrMo4 
		2		25							
		3		20							
		4		16	1						
		5		9							

 temprato=induction hardened  bonificato=tempered

14.518



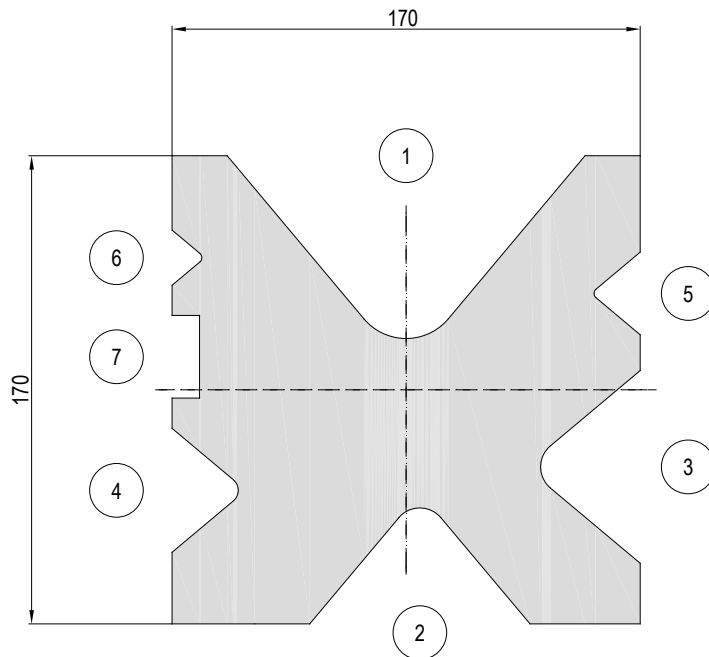
14.521



Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
14.518	14.518	1	85°	80	3	112	112	1020 -1250 - 2100 - 2550- 3050 - 4050 - 1250 FR	88 - 108 - 181 - 220 - 263 - 349.5 - 108	1500	42CrMo4 ○
		2		60							
		3		40							
		4		25							
		5		16	2						
		6		12							
		7	90°	8	1						
		8	30°	12							
14.521	14.521	1	85°	80	3	112	112	1020 -1250 - 2100 - 2550- 3050 - 4050 - 1250 FR	61 -74 - 125 - 152 - 181 - 241 - 74	1500	42CrMo4 ○
		2		70							
		3		60							
		4		50	2						

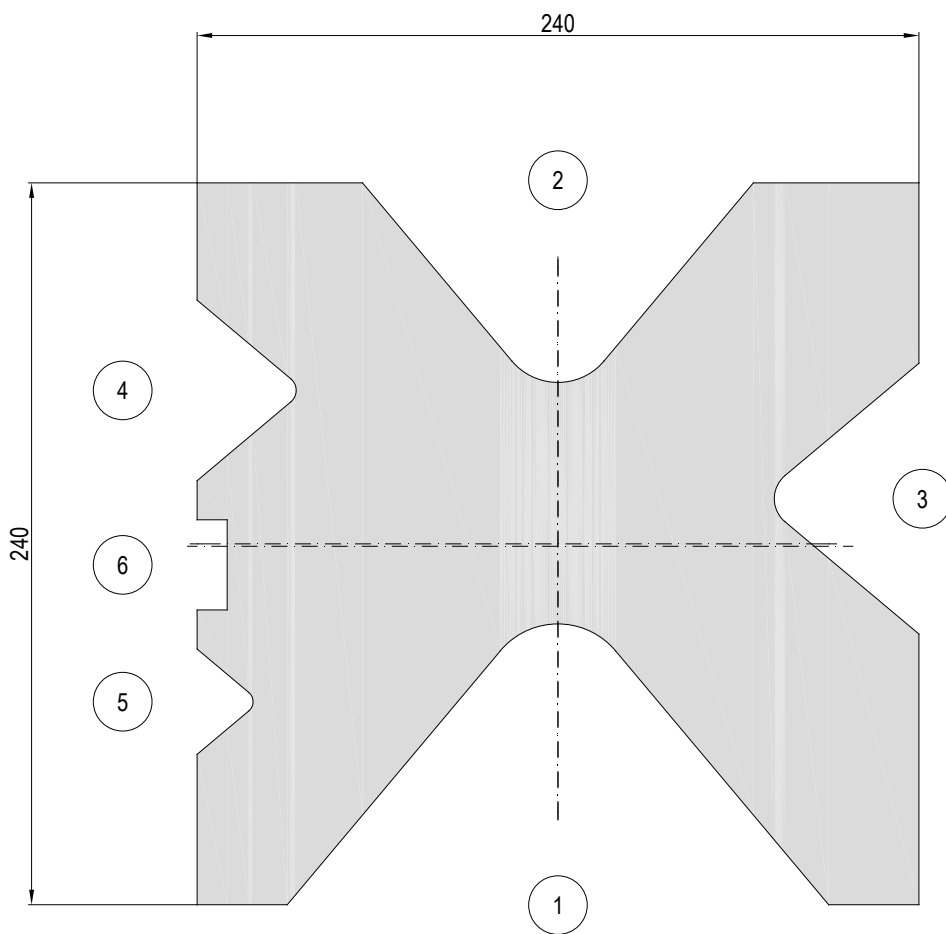
● temprato=induction hardened ○ bonificato=tempered

14.707

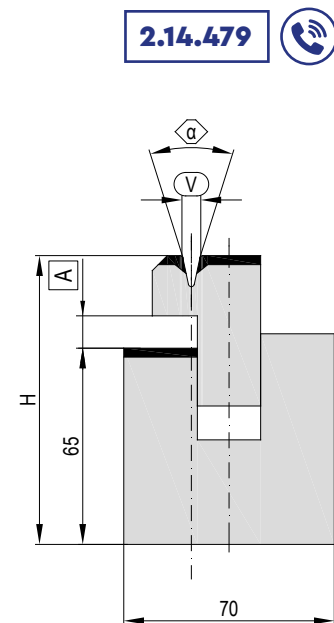


Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
14.707	14.707	1	80°	130	6	170	170	3050-4050 5100-6100	464-617-777-929	2500	42CrMo4 ○
		2		100							
		3		70	4						
		4		45	3						
		5		30							
		6		20							
		7	U	30×10	1						

● temprato=induction hardened ○ bonificato=tempered



14.759

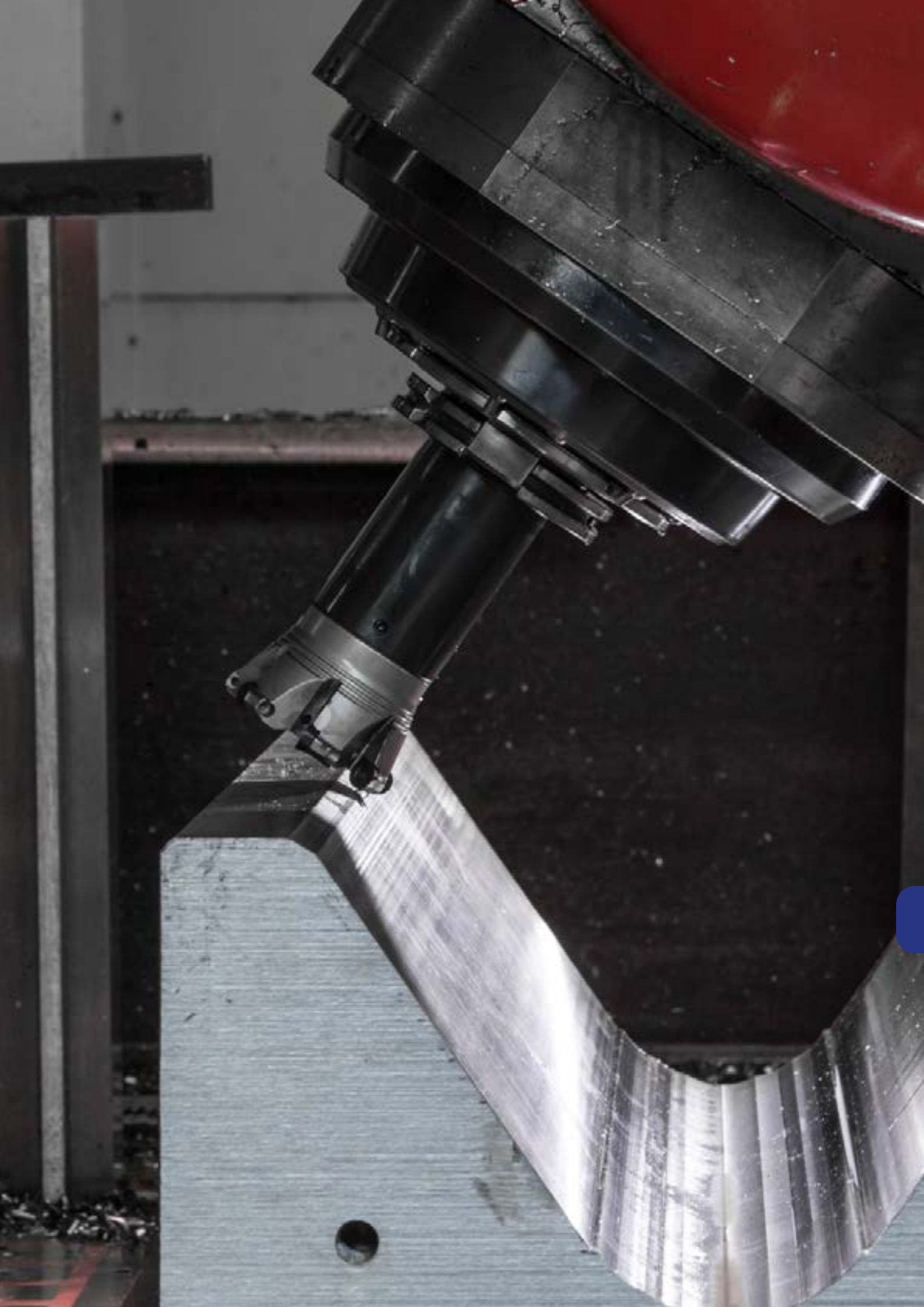


2.14.479

Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
14.759	14.759	1	80°	180	8	240	240	4050-5100 6100-7000	1244-1567 1874-2150	400	42CrMo4
		2		130	6						
		3		90	3						
		4		60	1						
		5		35							
		6	U	30x10							

Fam.	Mod.	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Corsa Stroke	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		α [°]	V o U [mm]	R [mm]	H [mm]	A [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
2.14.479	2.14.479 V6	24°	6	1	101	13.5	70	1020-1250	43-53	600	42CrMo4
	2.14.479 V8		8		106				52-64		

temprato=induction hardened bonificato=tempered

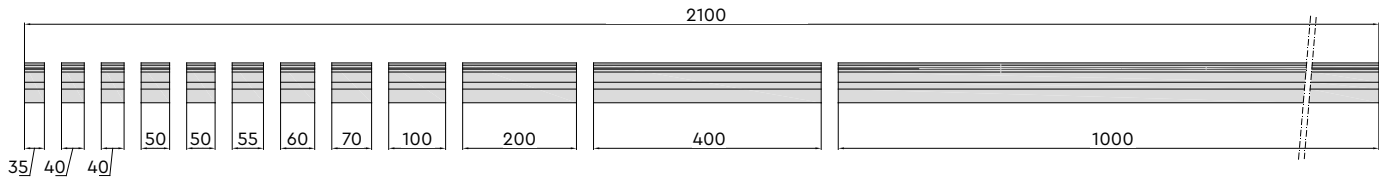




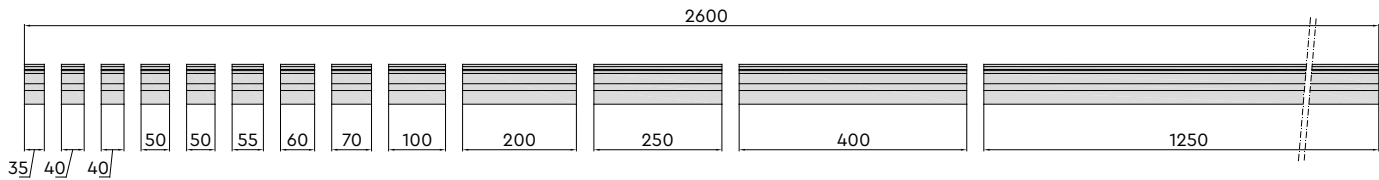
2100-2600-3100-4100

2100-2600-3100-4100

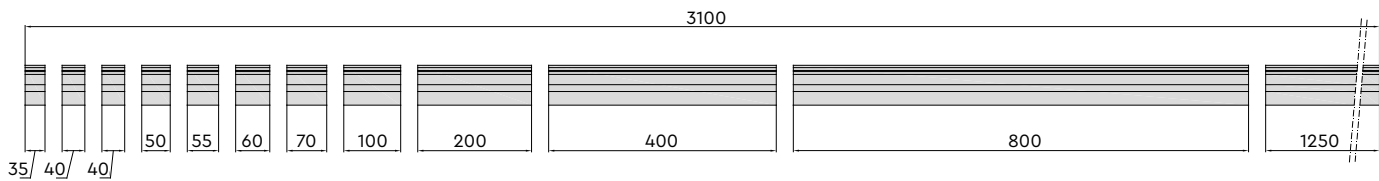
2100 FR/2100 SECT



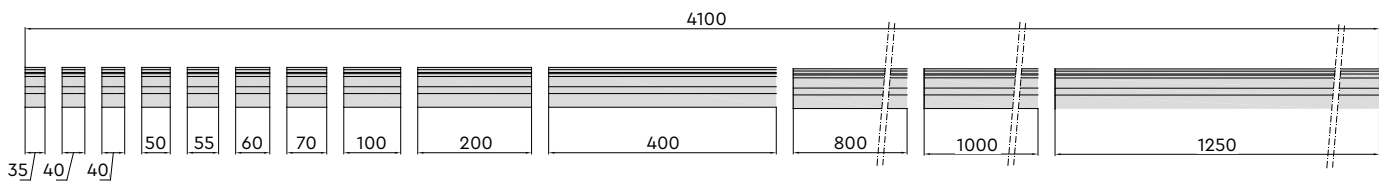
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3100 FR/3100 SECT



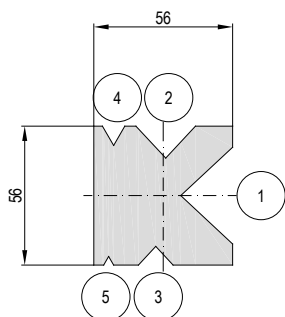
4100 FR/4100 SECT



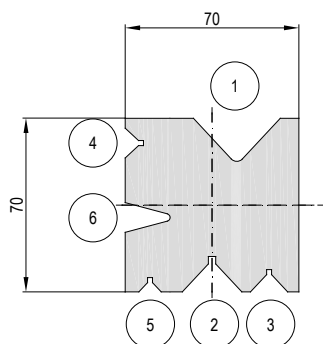
MATERIALE/MATERIAL

Materiale Material	Resistenza Meccanica Tensile strenght	Durezza corpo utensile Hardness tool body	Durezza dopo tempra Hardness after induction hardening
	N/mm ²	HB	HRC
C45	650 - 750	190 - 220	54 - 60
42CrMo4	900 - 1100	260 - 320	52 - 55

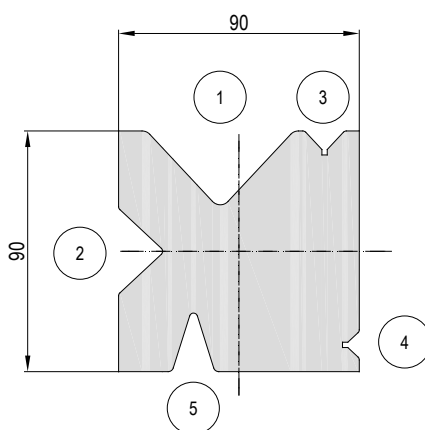
PV56



PV70



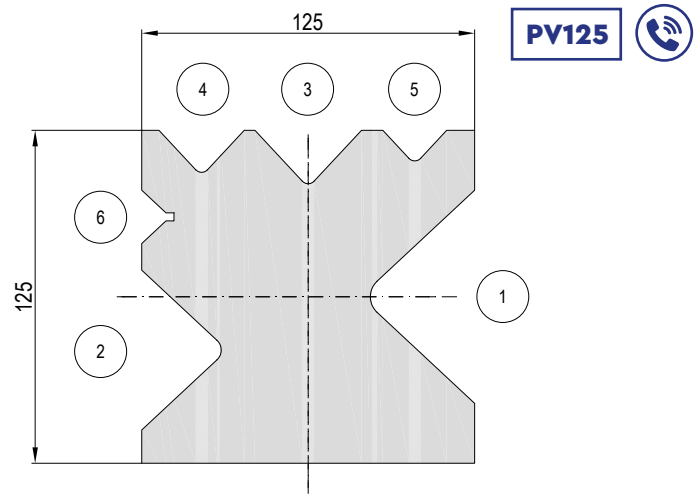
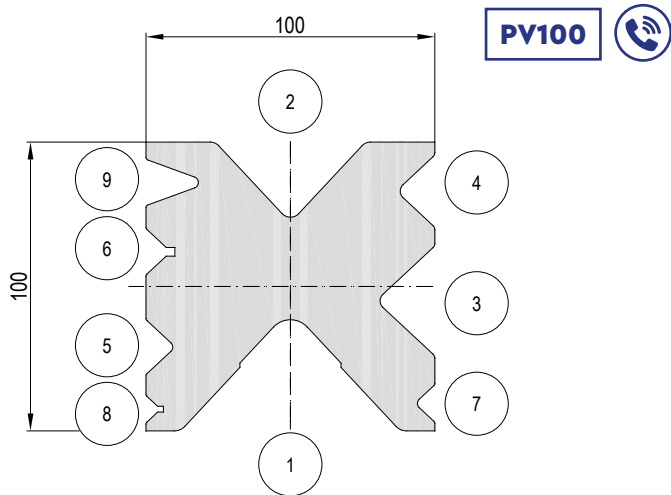
PV90



Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
PV56	PV56	1	86°	39	3	56	56	2100 - 2600	41 - 51	400	42CrMo4 ○
		2		24	1.5						
		3		14							
		4	60°	9	1						
		5		4							
PV70	PV70	1	86°	35	3	70	70	2100 - 2600 3100	69 - 86 102	800	42CrMo4 ○
		2		24	1.5						
		3		15							
		4		12							
		5		9							
		6	30°	12							
PV90	PV90	1	86°	55	4	90	90	2100 - 2600 3100 - 4100	110 - 136 162 - 215	1500	42CrMo4 ○
		2		32	1.5						
		3		15							
		4		10							
		5	35°	16	2						

● temprato=induction hardened

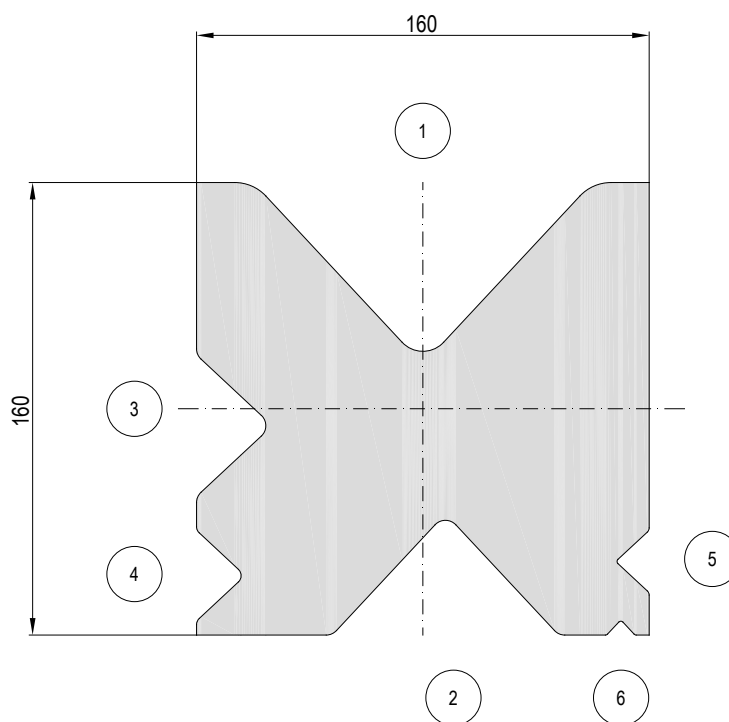
○ bonificato=tempered



Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
PV100	PV100	1	86°	76	5	100	100	2600 - 3100 4100 - 5000 6000	140 - 167 221 - 269 323	1750	42CrMo4 ○
		2		52	4						
		3		38	2						
		4		25	2						
		5		19	2						
		6		16	1						
		7		13	1						
		8		9.5	1						
		9	40°	16	1						
PV125	PV125	1	86°	80	4	125	125	3100 - 4100 5000 - 6000 7000 - 8000	291 - 385 469 - 563 657 - 751	3000	42CrMo4 ○
		2		60	3						
		3		40							
		4		32							
		5		24	2						
		6	20	1.5							

● temprato=induction hardened ○ bonificato=tempered

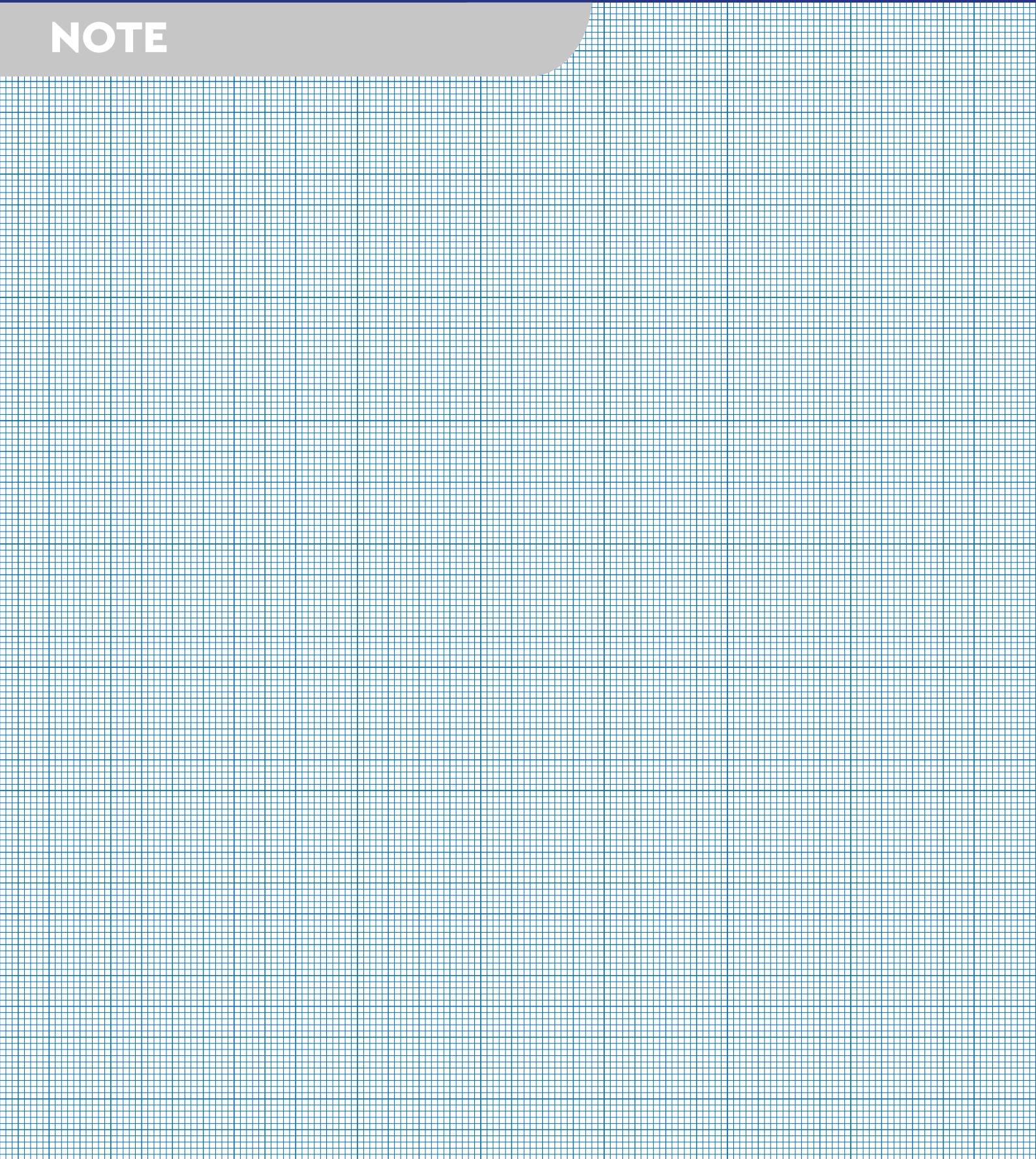
PV160



Fam.	Mod.	Cava Groove	Angolo Angle	Apertura Opening	Raggio Radius	Altezza Height	Larghezza Width	Lunghezza Length	Peso Weight	Forza Force	Materiale Material
		N°	α [°]	V o U [mm]	R [mm]	H [mm]	W [mm]	L [mm]	K [kg]	F [KN/m]	
PV160	PV160	1	86°	120	15	160	160	3100 4100 - 4300 5000 - 6000 7000 - 8000	461 601 - 630 744 - 892 1041 - 1190	5000	42CrMo4 ○
		2		80	5						
		3		50	3						
		4		32	2						
		5		22	1						
		6		10	1						

● temprato=induction hardened ○ bonificato=tempered

NOTE



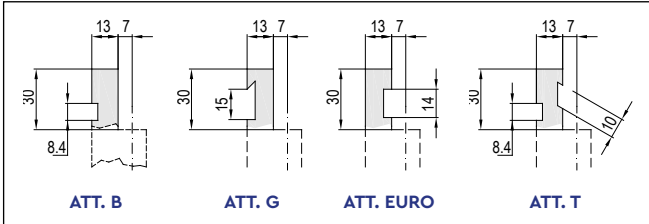


 Su Richiesta
On request

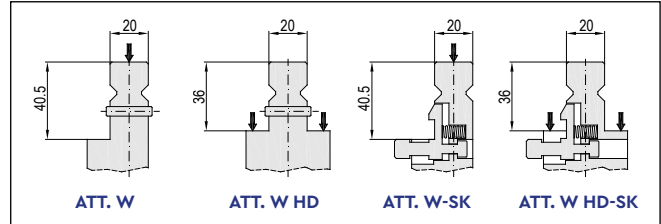
 A Magazzino
On stock

ATTACCHI PUNZONI/PUNCHES CLAMPINGS

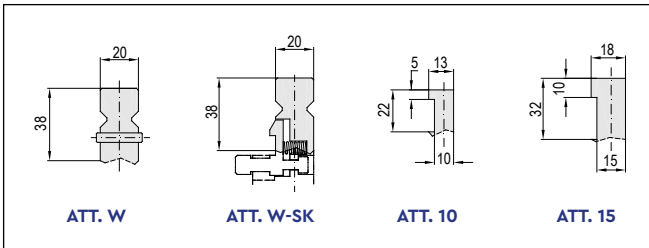
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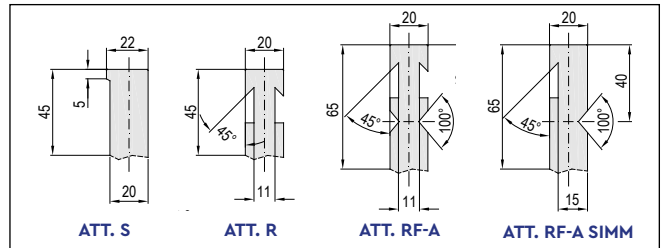
ATT. TYPE T



ATT. TYPE L

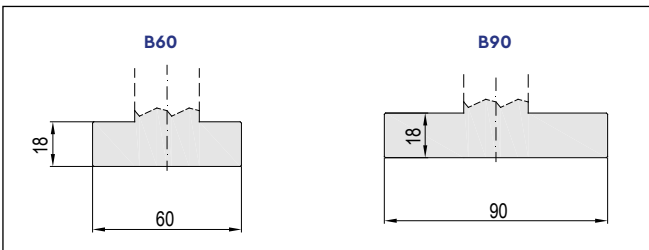


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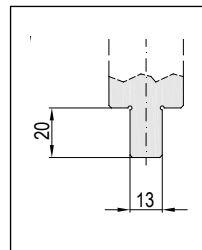


BASI MATRICI/DIES BASES

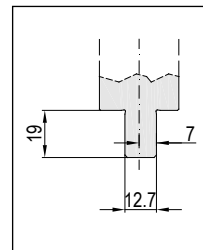
BASE TYPE A



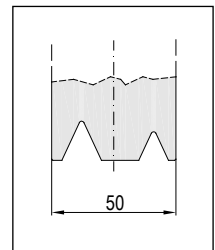
BASE TYPE W-T-B



BASE TYPE L

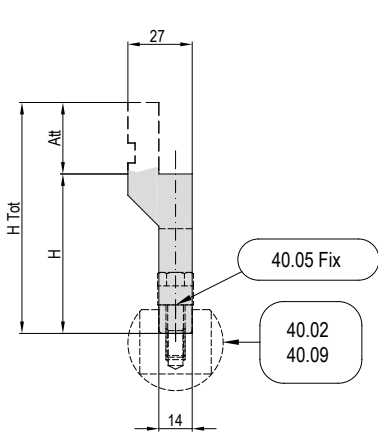


BASE TYPE C

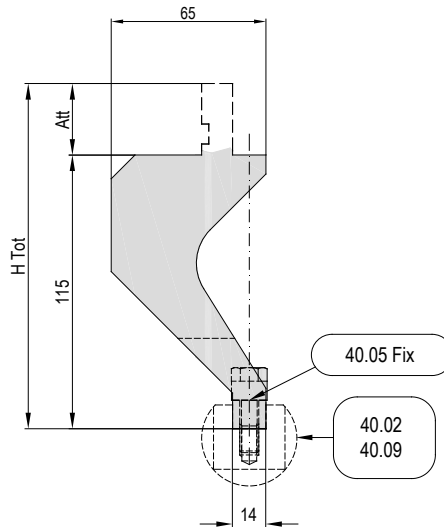


PORTA INSERTI/HOLDER FOR RADIUS-TOOLS

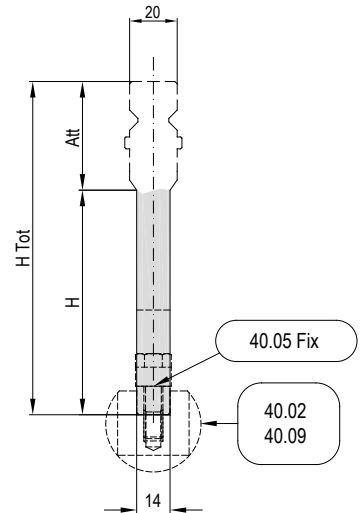
40.05 



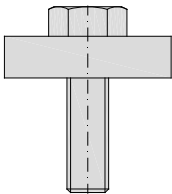
40.05-G 



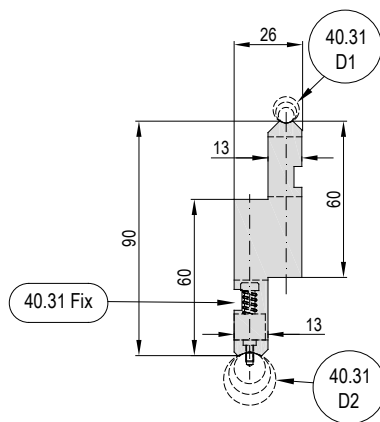
40.05 SPE 



40.05 Fix



40.30 



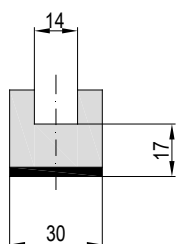
40.31 Fix



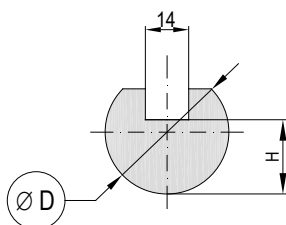
Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Altezza Height	Altezza Tot Total Height	Lunghezza Lenght	Peso Weight	Materiale Material
		Tipo/Type	Modello/Model	H [mm]	H Tot [mm]	L [mm]	K [kg]	
40.05	40.05	A	B-G-EURO T-FAST	67	97	830 - 412	10 - 5	C45
	40.05-100			100	130		13 - 6.5	
40.05-G	40.05-G	A	B-G-EURO T-FAST	115	145	830 - 412	26 - 13	C45
40.05 SPE	BE 40.05 R	B	R	95	140	830 - 412	16 - 8	C45
	BE 40.05 RF-A		RF-A	75	140			
	SPE 40.05	T / L	W	102	140			
40.30	40.30	A	B	60	90	835 - 415 - 835 FR	15 - 7.5 - 15	C45

INSERTI / INSERTS

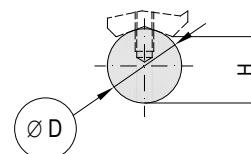
40.02 



40.09 



40.31 

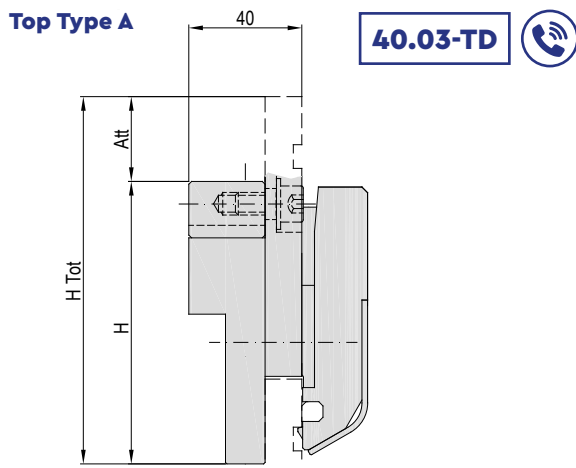
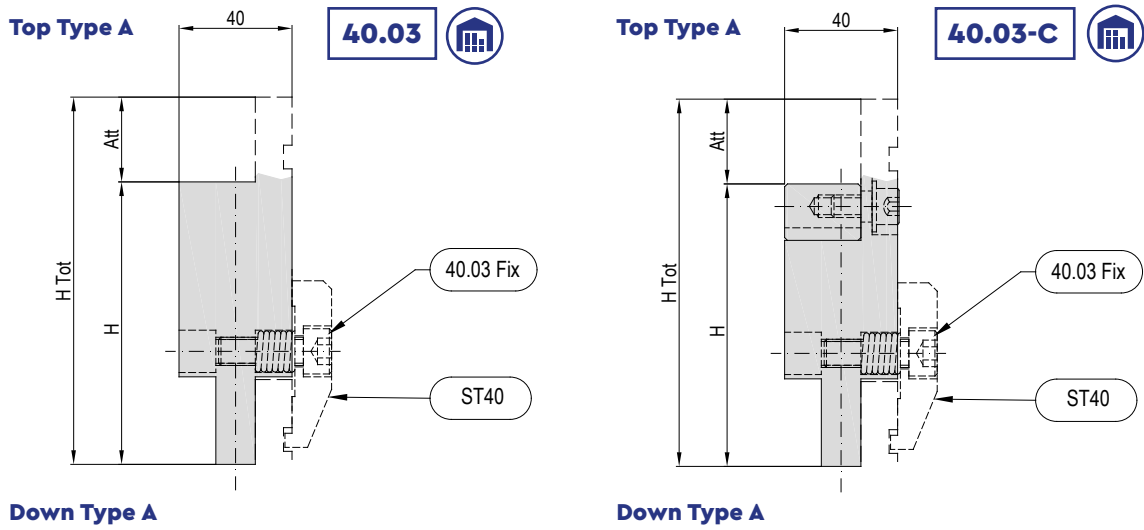


Fam.	Mod.	Spessore Thickness	Altezza Height	Lunghezza Length	Peso Weight	Materiale Material
		[mm]	H [mm]	L [mm]	K [kg]	
40.02	40.02	30	17	835-415	2.5-5	C45 ●

● temprato=Induction hardened ○ bonificato=tempered

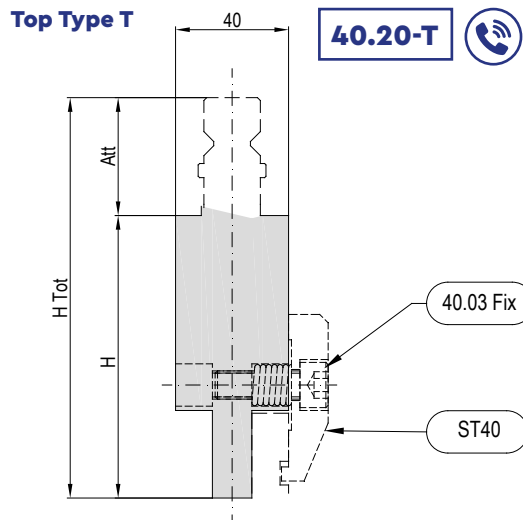
Fam.	Mod.	Diametro Diameter	Altezza Height	Lunghezza Length	Peso Weight	Materiale Material
		D [mm]	H [mm]	L [mm]	K [kg]	
40.09	40.09	20	12	835-415	2 - 1	C45
		25	17		3 - 1.5	
		30	20		4.5 - 2	
		35	22		6 - 3	
		40	24		8 - 4	
		50	29		12.5 - 6	
		60	34		19 - 9.5	
		80	44		30 - 15	
40.31	40.31D	6	5.3	835 - 415 - 835 FR	0.7 - 0.4 - 0.7	C45
		8	7.3		1.3 - 0.7 - 1.3	
		10	9.4		2 - 1 - 2	
	40.31D2	12	10.7		3 - 1.5 - 3	
		16	14.9		5.2 - 2.6 - 5.2	
		20	19		8 - 4 - 8	

PER UTENSILI AMADA/FOR AMADA TOOLS

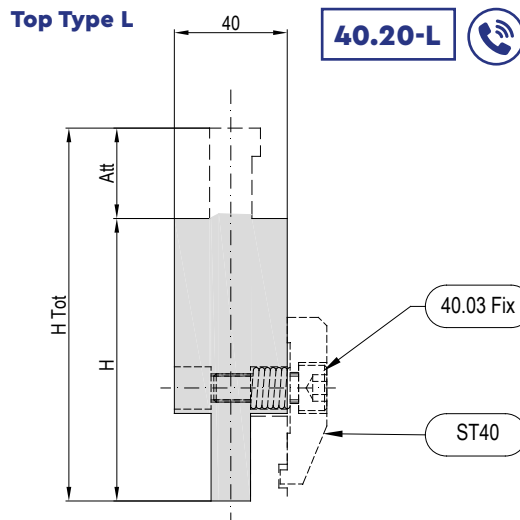


Down Type A

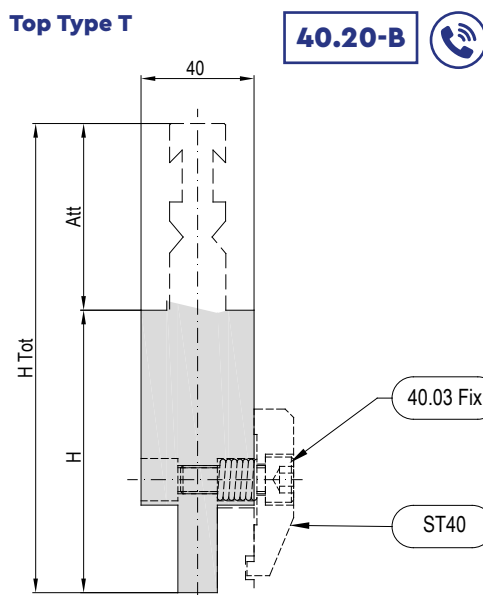
Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heigth	Altezza Tot Tot. Height	Lunghezza Length	Tipo Staffe di Fissaggio Clamps Type	Peso Weight K [kg]	Materiale Material	
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]				
40.03	40.03 /60	A	B-G-EURO T-FAST	A	B-G	60	90	150	ST41-ST42-ST43- ST44-ST45	2.5	C45	
	40.03 /100					100	130					4
	40.03 /150					150	180					
40.03 C	40.03-C /60	A Con sistema di regolazione / Adjustment system	B-G-EURO T-FAST	A	B-G	60	90	150	ST41-ST42-ST43 ST44-ST45	2.1	C45	
	40.03-C /100					100	130					3.5
	40.03-C /150					150	180					
40.03 TD	40.03-TD /100	A Con sistema di regolazione / Adjustment system	B-T	A	B-T	100	130	150	STAFFE PNEUMATICHE PNEUMATIC CLAMPS	4	C45	
	40.03-TD /150					150	180					6



Down Type A



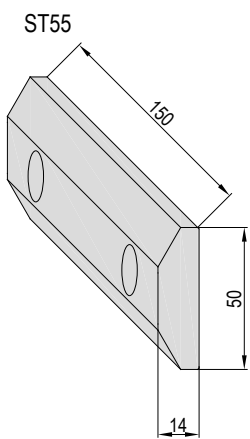
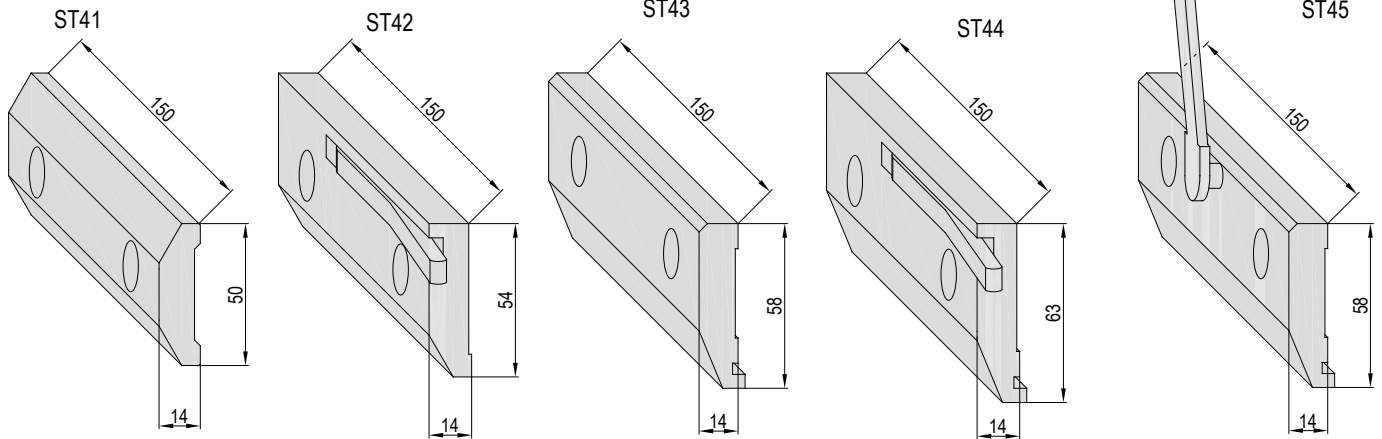
Down Type A



Down Type A

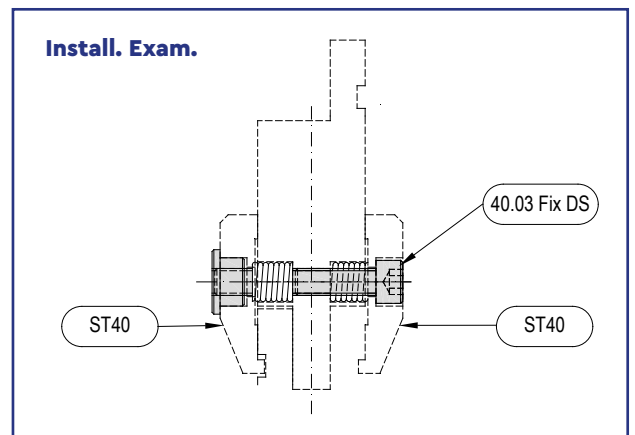
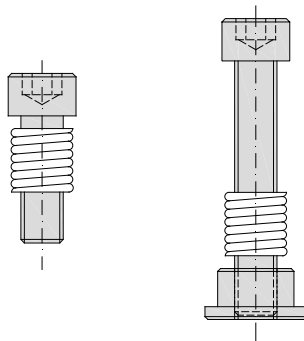
Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heigth	Altezza Tot Tot. Height	Lunghezza Length	Tipo Staffe di Fissaggio Clamps Type	Peso Weight K [kg]	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]			
40.20 T	SPE 40.01	T/L	W	A	B-G	80	120.5	150	ST41-ST42 ST43-ST44 ST45	4	C45
40.20 L	LV 40.20 10	L	10	A	B-G	80	102	150	ST41-ST42 ST43-ST44 ST45	3.7	C45
	LV 40.20 15		15				112			4	
40.20 B	BE 40.20 S	B	S	A	B-G	67	112	150	ST41-ST42 ST43-ST44 ST45	4.5	C45
	BE 40.20 R		R							4.3	
	BE 40.20 RF-A		RF-A							100	

STAFFE/CLAMPS



**40.03
Fix (x2)**

**40.03
Fix DS (x2)**



Fam.	Mod.	Dentino Anti-Caduta Safety tang	Bloccaggio a Leva Mechanical fast clamp	Opzione Inserto in Teflon Nylon strip	Altezza Height	Lunghezza Length	Interasse Fori Holes interaxis	Peso Weight	Materiale Material
					H [mm]	L [mm]	[mm]	K [kg]	
ST40	ST41				50	150	100	0.5	C45
	ST42		Leva Piegata Folded lever		54			0.7	
	ST42-D		Leva Dritta Straight lever		54			0.8	
	ST43	X		X	58			0.9	
	ST44	X	Leva Piegata Folded lever	X	63			0.5	
	ST44-D	X	Leva Dritta Straight lever	X	63			0.7	
	ST45	X	Leva Centrale Central lever	X	58			0.8	
	ST55				50			0.5	

SPEEDBLOCK®

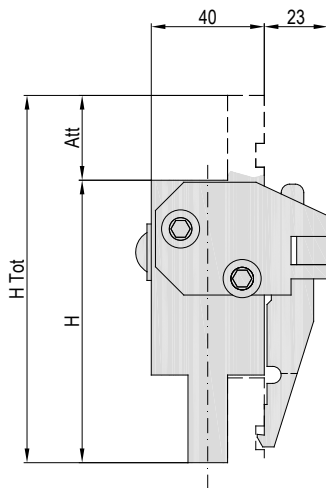
Il nuovo sistema di bloccaggio **SpeedBlock®**, applicabile a tutti i tipi di presse piegatrici, permette, con un comando meccanico manuale, di risparmiare sui tempi di set-up rispettando le norme di sicurezza.

- Rapidità di sgancio e aggancio degli utensili;
- Marcatura al laser con prescrizioni di sicurezza;
- possibilità di piegare con tutta la gamma di utensili standard Amada senza toccare le staffe;
- Indurimento superficiale antiusura e tempra ad induzione nelle zone di lavoro;
- Staffa sezionata in due parti che permette di sganciare i frazionati sostenendoli con una sola mano;
- Possibilità di sbloccare gli utensili portandoli in posizione di scorrimento senza pericolo di caduta;
- Leva di sganciamento integrata a scomparsa che agisce contemporaneamente su tutte le staffe;
- Regolazione indipendente delle staffe

SpeedBlock® is the new clamping system for all kinds of press brake. It allows, means of a manual mechanical drive, to save time in set-up respecting the safety rules.

- Quick release and clamping of tools;
- Laser marking with safety instructions;
- Possibility to bend with all standard Amada range without touching the clamps;
- Wear resistance surface treatment and induction hardening on working parts;
- Clamps divided in two parts that allows to unhook sectioned pieces, holdin them by one hand, only;
- Possibility to release the tools keeping them in silding position without risk of fall
- Special integrated foldaway unhooking lever working at the same time on all clamps;
- Clamps independent adjustment

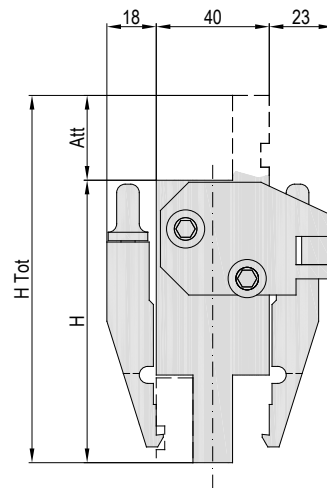
Top Type A



40.40-S



Top Type A



40.40-S4



Down Type A (B)

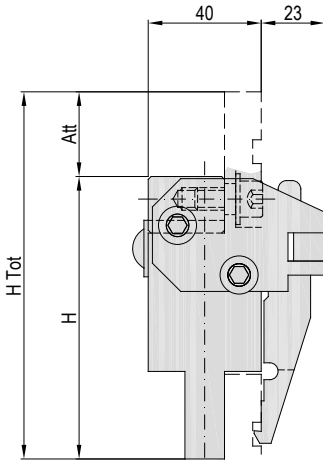
Down Type A (B)

Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heigth	Altezza Tot Tot. Height	Lunghezza Length	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]	K [kg]	
40.40 - S	40.40 - S /100	A	B-G-EURO T-FAST	A	B con 2 Staffe / with 2 clamps	100	130	150	5	C45
	40.40 - S /120					120	150		6	
	40.40 - S /150					150	180		7.5	
40.40 - S4	40.40 - S4 /100	A	B-G-EURO T-FAST	A	B con 4 Staffe / with 4 clamps	100	130	150	6	C45
	40.40 - S4 /120					120	150		7.2	
	40.40 - S4 /150					150	180		9	

SPEEDBLOCK®

Top Type A

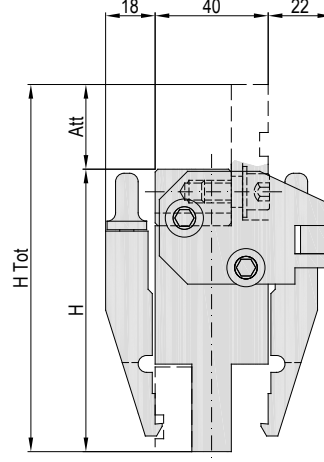
40.40-C



Down Type A (B)

Top Type A

40.40-C4

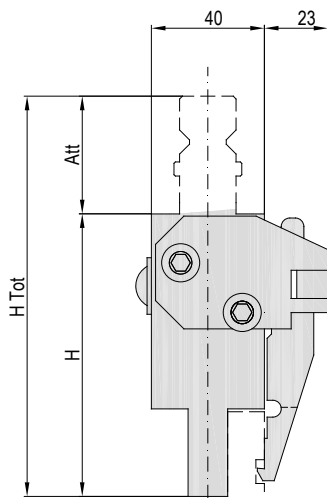


Down Type A (B)

Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heigth	Altezza Tot Tot. Height	Lunghezza Length	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]	K [kg]	
40.40 - C	40.40 - C/100	A con sistema di regolazione / Adjustment system	B-G-EURO T-FAST	A	B con 2 Staffe / with 2 clamps	100	130	150	5	C45
	40.40 - C/120					120	150		6	
	40.40 - C/150					150	180		7.5	
40.40 - C4	40.40 - C4/100	A con sistema di regolazione / Adjustment system	B-G-EURO T-FAST	A	B con 4 Staffe / with 4 clamps	100	130	150	6	C45
	40.40 - C4/120					120	150		7.2	
	40.40 - C4/150					150	180		9	

Top Type T

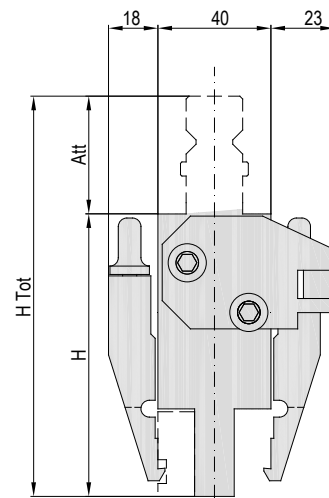
40.40-T



Down Type A (B)

Top Type T

40.40-T4



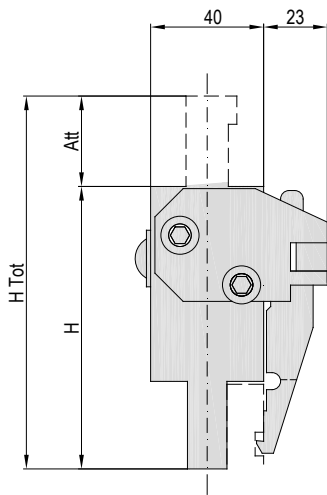
Down Type A (B)

Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heigth	Altezza Tot Tot. Height	Lunghezza Length	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]	K [kg]	
40.40 - T	40.40 - T/140	T/L	W	A	B con 2 Staffe / with 2 clamps	99,5	140	150	5.5	C45
	40.40 - T/190					149,5	190		8.3	
40.40 - T4	40.40 - T4/140	T/L	W	A	B con 4 Staffe / with 4 clamps	99,5	140	150	6.5	C45
	40.40 - T4/190					149,5	190		9.8	

SPEEDBLOCK®

Top Type L

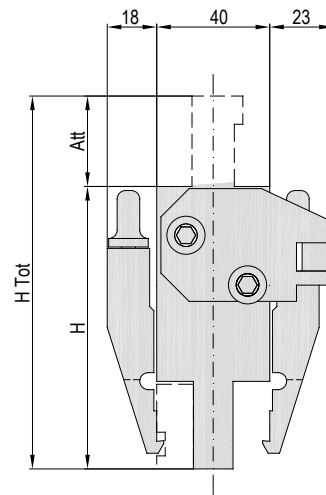
40.40-L



Down Type A (B)

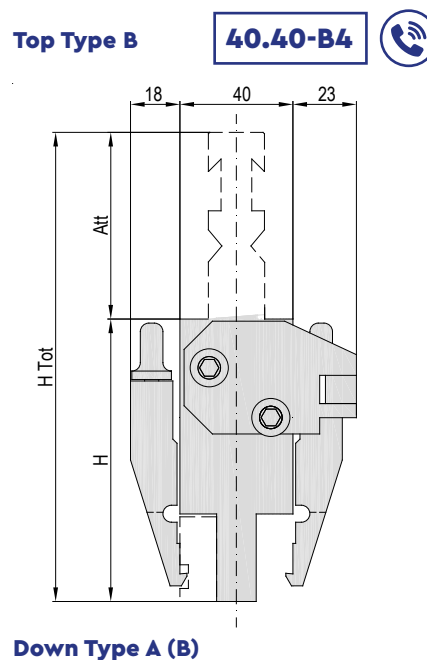
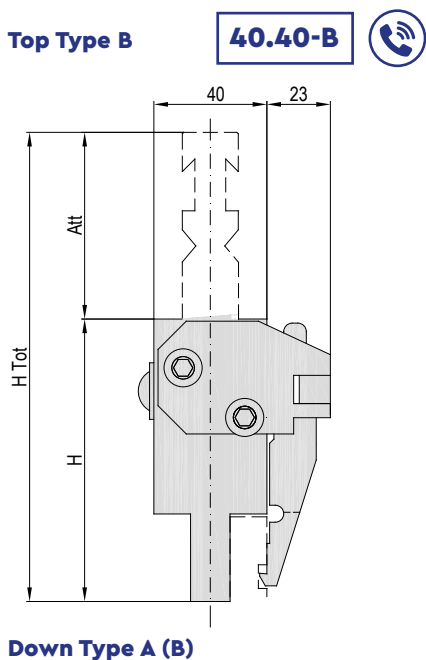
Top Type L

40.40-L4



Down Type A (B)

Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heigth	Altezza Tot Tot. Height	Lunghezza Length	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]	K [kg]	
40.40 - L	40.40 - L10	L	10	A	B con 2 Staffe / with 2 clamps	100	122	150	4.7	C45
	40.40 - L15		15				132		5	
40.40 - L4	40.40 - L410	L	10	A	B con 4 Staffe / with 4 clamps	100	122	150	5.7	C45
	40.40 - L415		15				132		6	

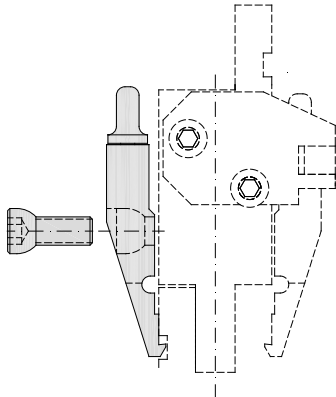


Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heigth	Altezza Tot Tot. Height	Lunghezza Length	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]	K [kg]	
40.40 - B	40.40 - BS	B	S	A	B con 2 Staffe / with 2 clamps	100	145	150	5.5	C45
	40.40 - BR		R						5.3	
	40.40 - BRF-A		RF-A						5.7	
40.40 - B4	40.40 - B4S	B	S	A	B con 4 Staffe / with 4 clamps	100	145	150	6.5	C45
	40.40 - B4R		R						6.3	
	40.40 - B4RF-A		RF-A						6.7	

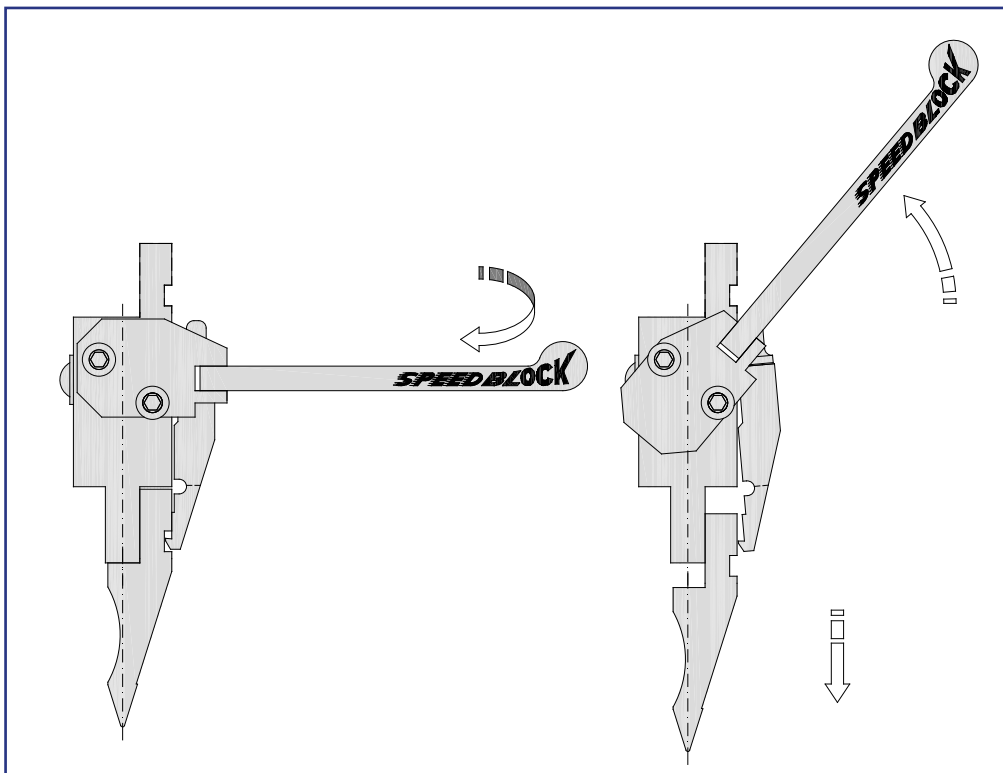
SPEEDBLOCK®

KIT DOPPIO STAFFAGGIO/DOUBLE CLAMPING KIT

40.40-Fix DS (2)



ESEMPIO DI FUNZIONAMENTO/EXAMPLE OF OPERATION

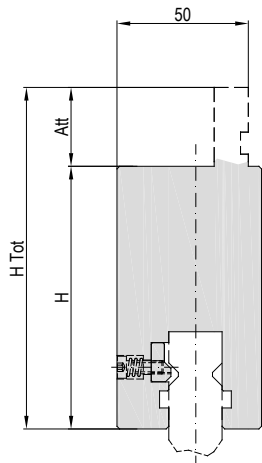




PER UTENSILI TRUMPF-LVD/FOR TRUMPF-LVD TOOLS

Top Type A

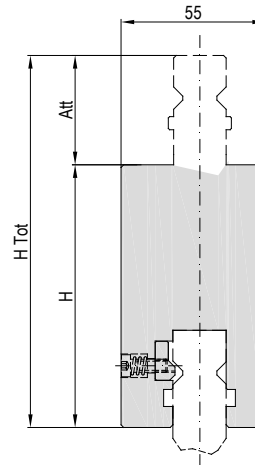
SPE-EXT AW



Down Type T-L (W)

Top Type T-L (W)

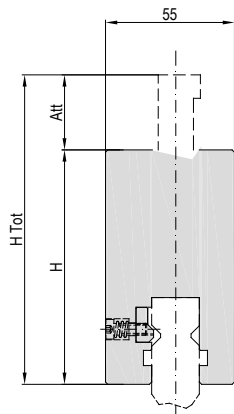
SPE-EXT TW



Down Type T-L (W)

Top Type L 10-15

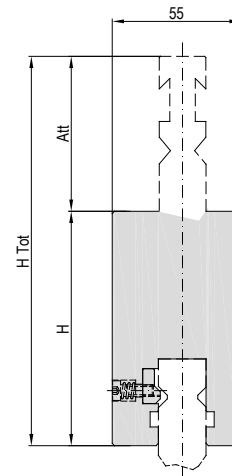
SPE-EXT LW



Down Type T-L (W)

Top Type B (S-R-RFA)

SPE-EXT BW



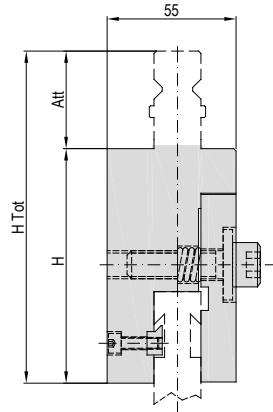
Down Type T-L (W)

Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heighth	Altezza Tot Tot. Height	Lunghezza Length	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]	K [kg]	
SPE - EXT AW	SPE - EXT AW/67	A	B-G-EURO -T-FAST	T/L	W	67	97	150	3.2	C45
	100					130	4.7			
SPE - EXT TW	SPE - EXT TW/100	T/L	W	T/L	W	100	140	150	5	C45
	150					190	7			
SPE - EXT LW	SPE - EXT LW/100	L	10	T/L	W	100	122	150	4.4	C45
							132		4.7	
	150					172	6.6			
						182	6.9			
SPE - EXT BW	SPE - EXT BW/100	B	S	T/L	W	100	145	150	5.2	C45
			R				5			
			RF-A				5.4			
	150		S			145	7.8			
			R			7.6				
			RF-A			165	8			

PER UTENSILI BEYELER/FOR BEYELER TOOLS

Top Type T-L (W)

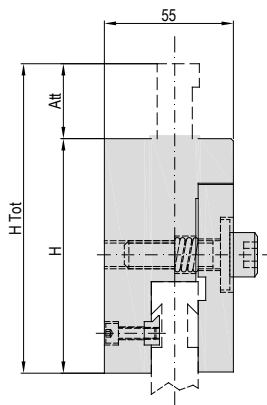
SPE-EXT TB



Down Type B

Top Type L (10-15)

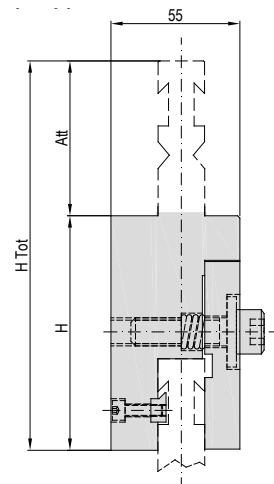
SPE-EXT LB



Down Type B

Top Type B (S-R-RFA)

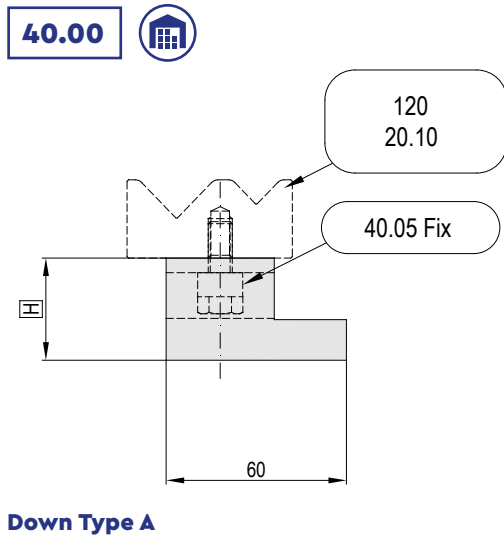
SPE-EXT BB



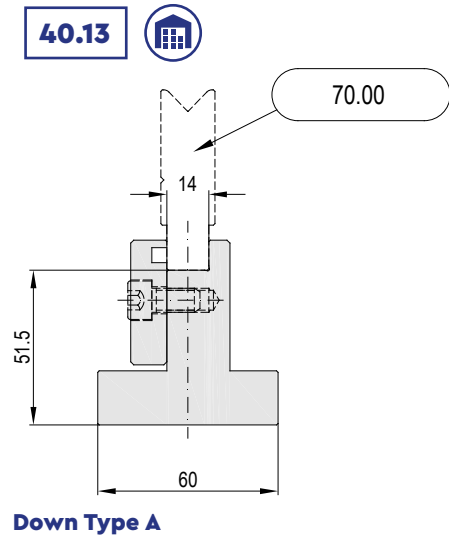
Down Type B

Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Altezza Heigth	Altezza Tot Tot. Height	Lunghezza Length	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	H [mm]	H Tot [mm]	L [mm]	K [kg]	
SPE - EXT TB	SPE - EXT TB	T/L	W	B	R	100	140	150	5	C45
					RF-A	120	160		6	
SPE - EXT LB	SPE - EXT LW/100	L	10	B	R	100	122	150	4.4	C45
					RF-A	120	142		5.4	
					R	100	132		4.7	
					RF-A	120	152		5.7	
SPE - EXT BB	SPE - EXT BB	B	S	B	R	100	145	150	5.2	C45
					RF-A	120	165		6.2	
					R	100	145		5	
					RF-A	120	165		6	
					R	100	165		5.4	
					RF-A	120	185		6.4	

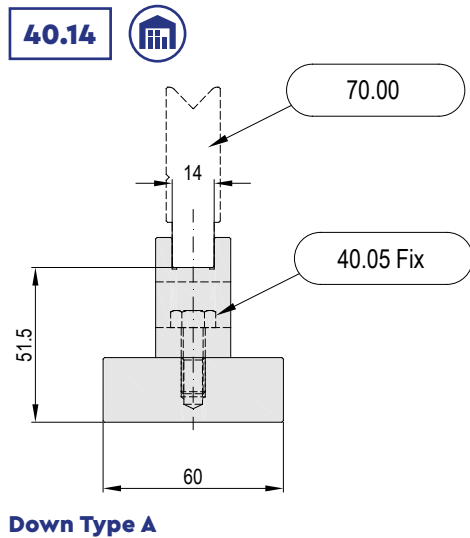
ADATTATORI INFERIORI/LOWER ADAPTERS



Down Type A

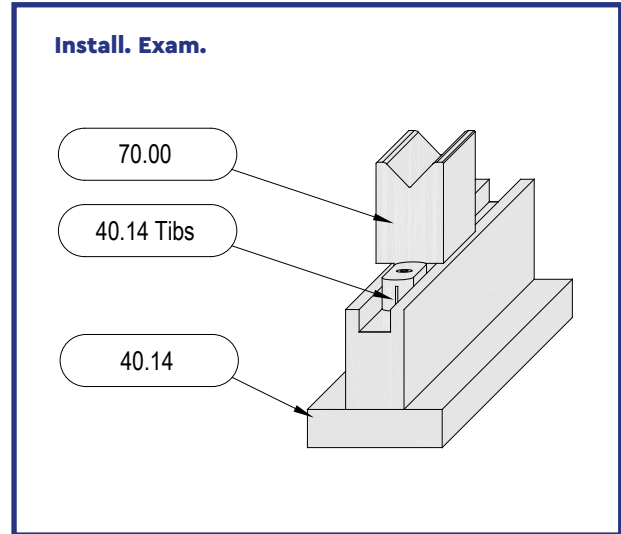


Down Type A



Down Type A

40.14 Tibs

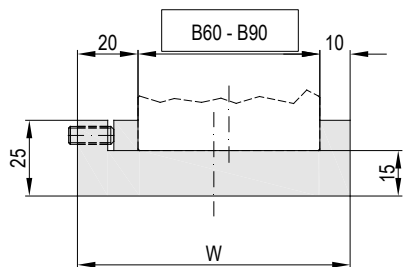


Fam.	Mod.	Tipo Attacco Inf. Down clamping type		Tipo Attacco Sup. Top clamping type		Larghezza Width W [mm]	Altezza Height H [mm]	Lunghezza Length L [mm]	Peso Weight K [kg]	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model					
40.00	40.06	A	B60	A	120-20.10	60	36	835-415	9-4.5	C45
	39						10-5			
	55						15-7.5			
	75						19-9.5			
40.13	40.13	A	B60	A	70.00	60	51.5	835-415-1050-1250	14-7-17.5-21	C45
40.14	40.14	A	B60	A	70.00	60	51.5	835-415-1050-1250	16-8-20-24	C45

ADATTATORI INFERIORI/LOWER ADAPTERS

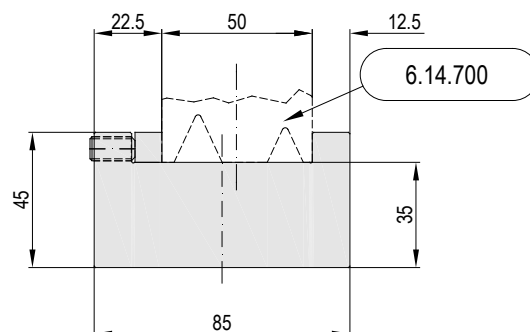
Top Type A

40.60 



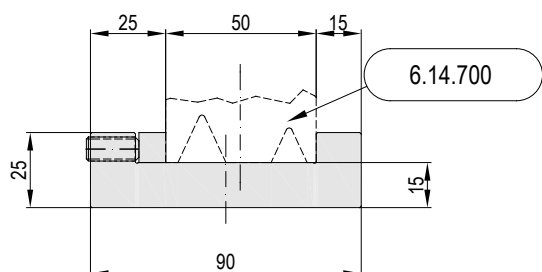
Top Type C

8.14.053 



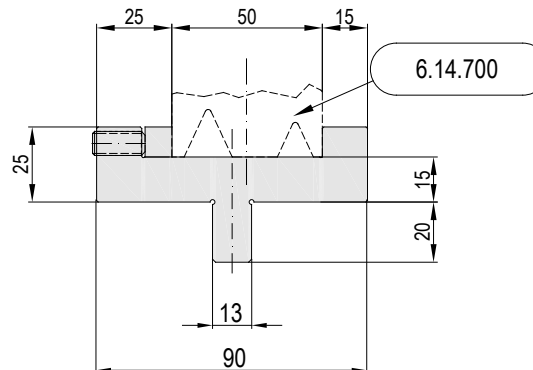
Top Type C

8.14.053-A 



Top Type C

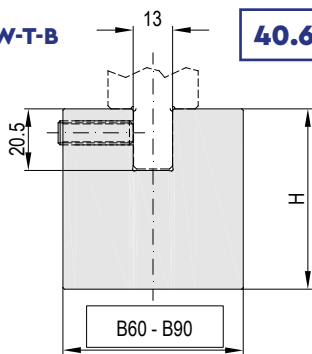
8.14.053-SPE 



Down Type A

Top Type W-T-B

40.60 TR 



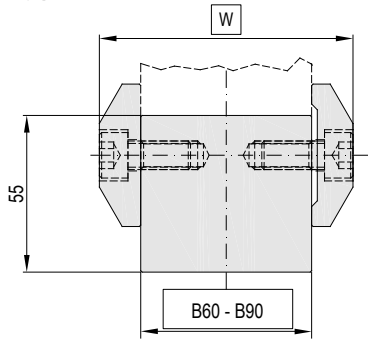
Down Type W-T-B

Down Type A

Fam.	Mod.	Tipo Attacco Inf. Down clamping type		Tipo Attacco Sup. Top clamping type		Larghezza Width W [mm]	Altezza Height H [mm]	Lunghezza Length L [mm]	Peso Weight K [kg]	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model					
40.60	40.60 B60	A	-	A	B60	90	15	2100-2600-3100-4100	31-38-45-60	C45
	40.60 B90		-		B90					
8.14.053	8.14.053	C	-	C	6.14.700	85	35	1250-2020-3050-4050	34-55-83-110	C45
	8.14.053 - A	A	B90			90	15		16-26-39-52	
	8.14.053 - SPE	T-B	W			90	15		17-27-41-55	
40.60-TR	40.60 - TR B60	A	B60	T-B	W	60	30	500-1000	6-12	C45
			B90				60		13-26	
	40.60 - TR B90		30				9.5-19			
			60				20-40			

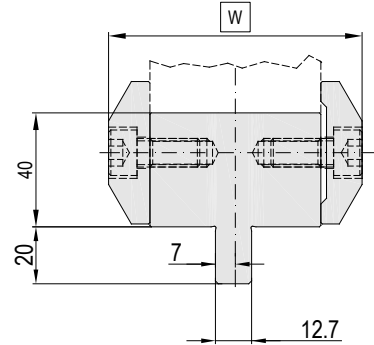
ADATTATORI INFERIORI/LOWER ADAPTERS

Top Type A **40.55** 



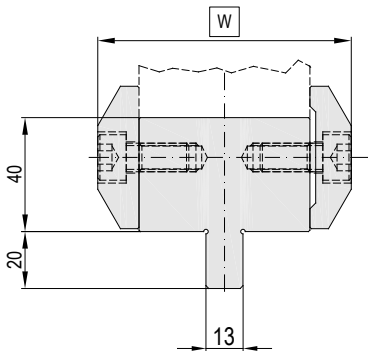
Down Type A

Top Type A **40.55-LVD** 



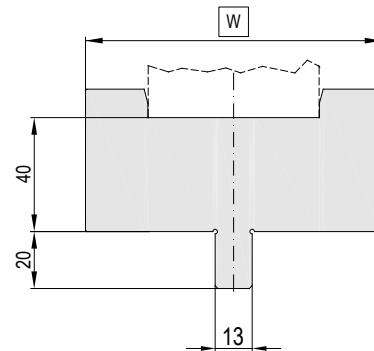
Down Type L

Top Type A **40.55-TR** 



Down Type T-B

Top Type A **40.40 SPE** 

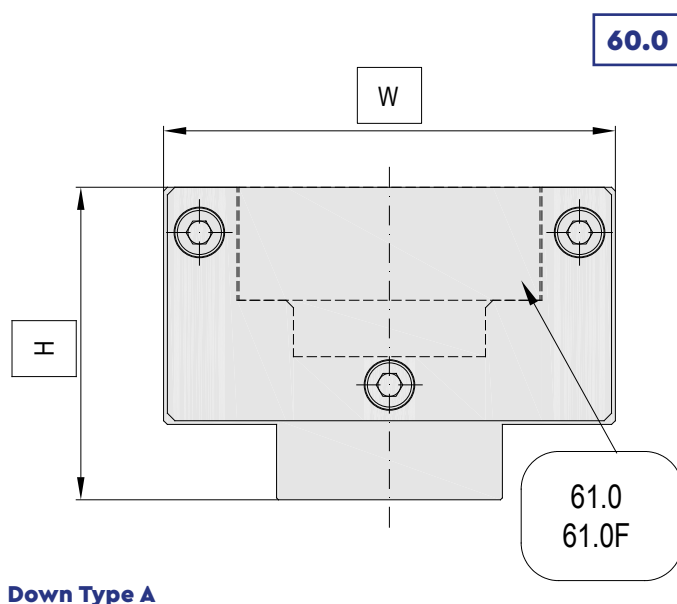




Down Type T-B

Fam.	Mod.	Tipo Attacco Inf. Down clamping type		Tipo Attacco Sup. Top clamping type		Larghezza Width	Altezza Height	Lunghezza Length	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	W [mm]	H [mm]	L [mm]	K [kg]	
40.55	40.55 B60	A	B60	A	B60	89	55	835-415	22-11	C45
	40.55 B90		B90		B90	119			33-16.5	
40.55-LVD	40.55-LVD	L	L	A	B60	89	40	835-415	25-12	C45
					B90	119			36-18	
40.55-TR	40.55-TR	T-B	W	A	B60	89	40	835-415	25-12	C45
					B90	119			36-18	
40.40 SPE	40.40 SPE	T-B	W	A	B60	109	40	500	19	C45
					B90	139			24	

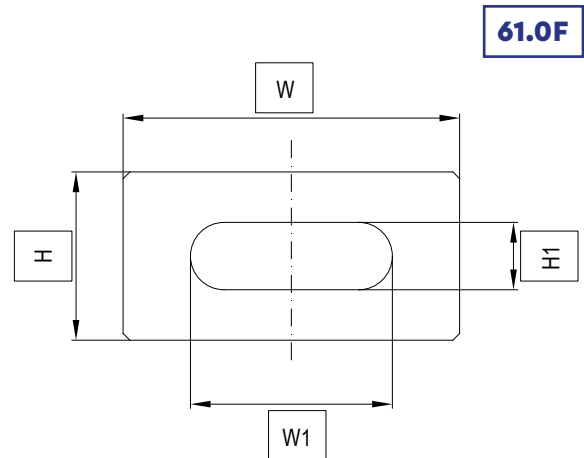
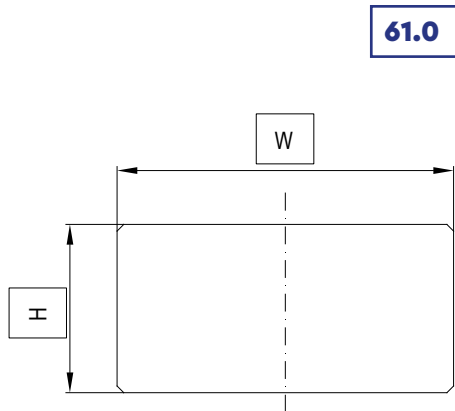


MATRICI PORTAININSERTO / POLYURETHANE INSERT HOLDERS



Fam.	Mod.	Tipo Attacco Inf. Down clamping type		Larghezza Width	Altezza Height	Lunghezza Length	Peso Weight	Materiale Material	
		Tipo Type	Modello Model	W [mm]	H [mm]	L [mm]	K [kg]		
60.0	60.1	A	B60	60	60	835-415	21-10.5	C45	 
	60.3			100	100		45-22.5		
	60.4		B60-B90	120	83		55-27.5		
	60.5			150	108		62-31		
	60.6			125	100		47-23.5		
	60.7			155	100		52-26		
	60.8			215	110		91-45.5		
	60.9			239	65		70-35		

INSERTO POLIURETANICO/FORATO POLYURETHANE INSERT WITH/WITHOUT HOLE



Fam.	Mod.	Larghezza Width	Altezza Height	Lunghezza Length	Peso Weight	Materiale Material	
		W [mm]	H [mm]	L [mm]	K [kg]		
61.0	61.1	25	25	835-415	1-0.5	Giallo 80 Shore Arancio 82 Shore Rosso 90 Shore Yellow 80 Shore Orange 82 Shore Red 90 Shore	
	61.3	50	50		3-1.5		
	61.4	80	30		6-3		
	61.5	110	45		4.5-2.2		
	61.6	75	50		6-3		
	61.7	100	50		12.5-6		
	61.8	150	70		24-12		
	61.9	200	100				

Fam.	Mod.	Larghezza Width	Altezza Height	Foro / Asola Hole	Lunghezza Length	Peso Weight	Materiale Material	
		W [mm]	H [mm]	W1 x H1 [mm]	L [mm]	K [kg]		
61.0F	61.1	25	25	10	835-415	1-0.5	Giallo 80 Shore Arancio 82 Shore Rosso 90 Shore Yellow 80 Shore Orange 82 Shore Red 90 Shore	
	61.3	50	50	25		2.5-1.2		
	61.4	80	30	40x15		2-1		
	61.5	110	45	60x20		4.5-2.2		
	61.6	75	50	45x20		3.5-1.7		
	61.7	100	50	60x20		4.5-2.2		
	61.8	150	70	90x35		9-4.5		
	61.9	200	100	135x45		17-8.5		



Le matrici con apertura V variabile permettono di lavorare lamiere di vari spessori, con diversi angoli di piega, evitando sostituzioni di utensili così da ridurre notevolmente i tempi di attrezzaggio presse.

MATRICI AD APERTURA V AUTOMATICA

Sono costruite in due versioni:

- manuale con range di apertura 6-40mm lunghezza max di 3000 mm
- motorizzata programmabile con CNC della pressa e range di apertura max 240 mm e lunghezza max di 8000 mm.

Modo veloce e semplice per variare la larghezza del V.

MATRICI A SETTORI FISSI

- Le matrici a settori fissi permettono di regolare manualmente l'apertura del "V" tramite settori amovibili con step di registrazione di 10mm
- Le aperture possono variare da min. 40mm a max 400mm per una lunghezza max di 8000 mm.

Le matrici variabili possono essere personalizzate in base all'esigenze di lavorazione e alle dimensioni della pressa. Tutte le matrici sono temprate a induzione nelle zone di scorrimento lamiera oppure possono avere dei rullini temprati per ridurre la resistenza d'attrito nella fase di piegatura.

The variable V dies allow to work sheet metal of various thicknesses, with different bending angles, avoiding tool changes so as to reduce press setup times.

AUTOMATIC V OPENING DIES

They are available in two versions:

- *manual with opening ranges 6-40mm and max length 3000 mm*
- *motorized programmable by CNC of the press and max opening ranges 240mm and max length 8000 mm. To obtain different "V" openings in a fast and simple way.*

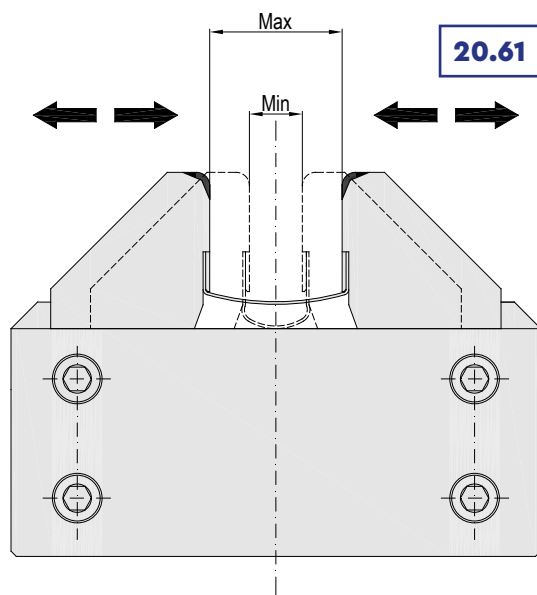
FIXED SECTOR DIES

- *The fixed sector dies allow you to adjust the opening of the "V" by means of removable sectors with 10mm registration steps*
- *The openings can vary from a min. of 40mm to a max of 400mm and a length max of 8000 mm*

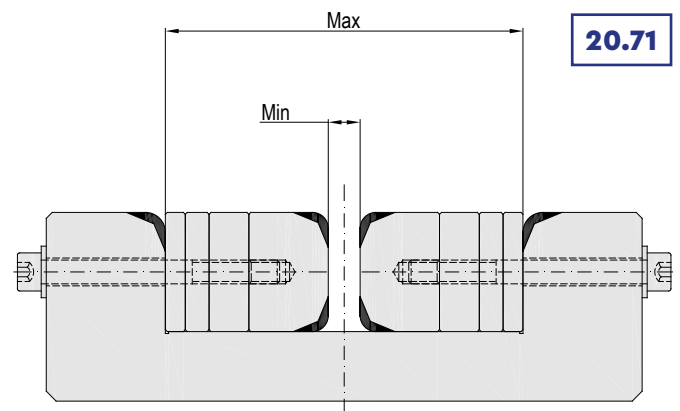
The variable dies can be customized according to the requirements of customer and to interface to the dimensions of press brake.

All these dies are induction hardened in the sliding area metal sheet or they have hardened rollers to reduce friction during the movement of the sheet on the die.

MATRICI VARIABILI/VARIABLE OPENING DIES

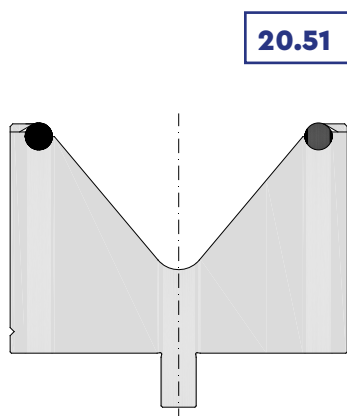


**MATRICI VARIABILI AD AZIONAMENTO
MANUALE O AUTOMATICO
VARIABLE OPENING DIES WITH
MANUAL OR AUTOMATIC ADJUSTMENT**



**MATRICI VARIABILI A SETTORI FISSI
VARIABLE OPENING DIES WITH FIXED SECTOR**

MATRICI A RULLINI/ROLLERS DIES



Queste matrici, con rullini temprati, consentono un miglior scorrimento della lamiera durante la piegatura.

Disponibili in diverse versioni, in funzione dei vari spessori e tipi di lamiera da piegare.

These lower dies, with hardened rollers, improves the sliding of the sheet during the bending operation.

They are available in more versions, depending on the thickness and type of material bending used.

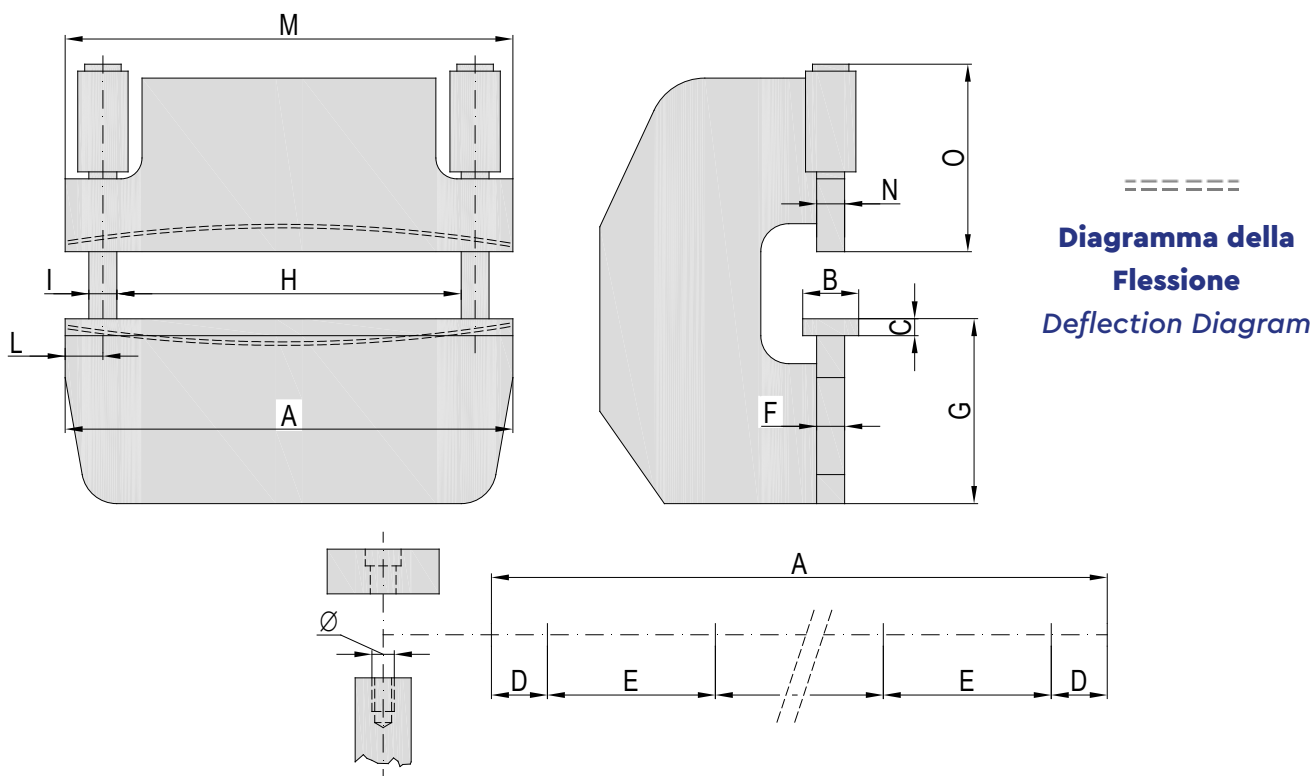


AD AZIONAMENTO MANUALE O AUTOMATICO CNC MANUAL OR AUTOMATIC CNC ADJUSTMENT

É noto che l'angolo di piega non è costante sull'intera lunghezza a causa delle flessioni che si creano durante la lavorazione sulle presse. Tale problema è risolto mediante tavole di compensazione, che, tramite un sistema a cunei, manuale o automatico, seguono il diagramma delle flessioni, compensandolo. La compensazione può essere longitudinale per un diagramma lineare oppure trasversale per regolazioni localizzate. La costruzione di queste tavole viene calcolata ed eseguita su misura secondo le caratteristiche tecniche e strutturali di ogni tipo di pressa piegatrice e, secondo le esigenze del Cliente, può avere azionamento manuale o automatico e la regolazione trasversale, longitudinale oppure combinata. Anche la scelta delle eventuali cave, guide, fissaggi ed ingombri delle tavole di compensazione, vengono personalizzate alle vostre gentili richieste.

It is well known that the bend angle is not constant over the entire length due to the bending that results from machining on the presses. This problem can be solved using compensation tables, which adapt to and compensate the bending diagram through a wedge system. The compensation can be longitudinal for a lineal diagram or diagonal for localized adjustments. Depending on the customer's needs and the technical and structural characteristics of each type of press brake, compensation tables can be manual or automatic and can have diagonal, longitudinal, or combined adjustment. Slots, guides, fixings and sizes of the compensation tables can be customized according to the requirements of each customer.

Dimensioni Pressa / Press Brake Dimensions



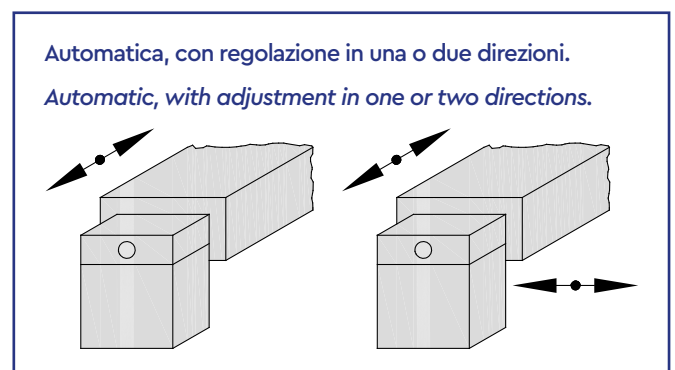
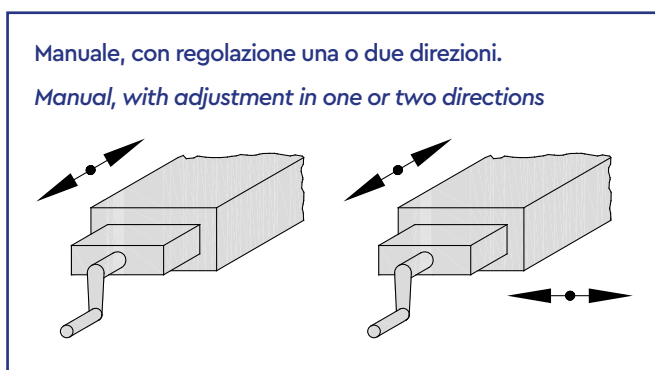
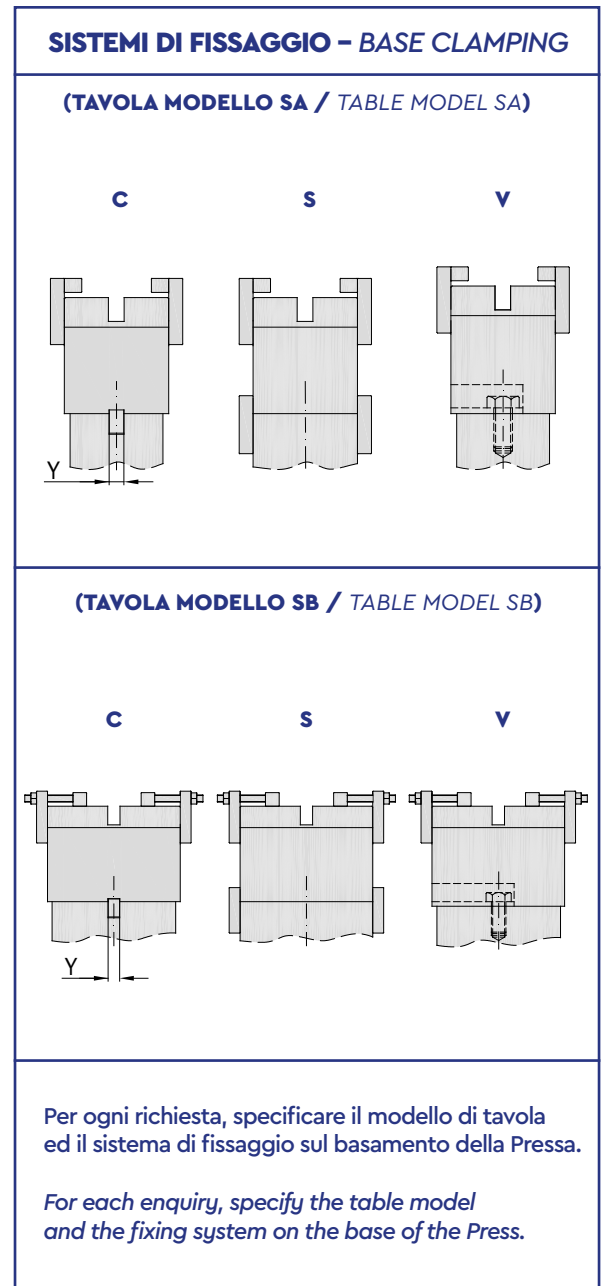
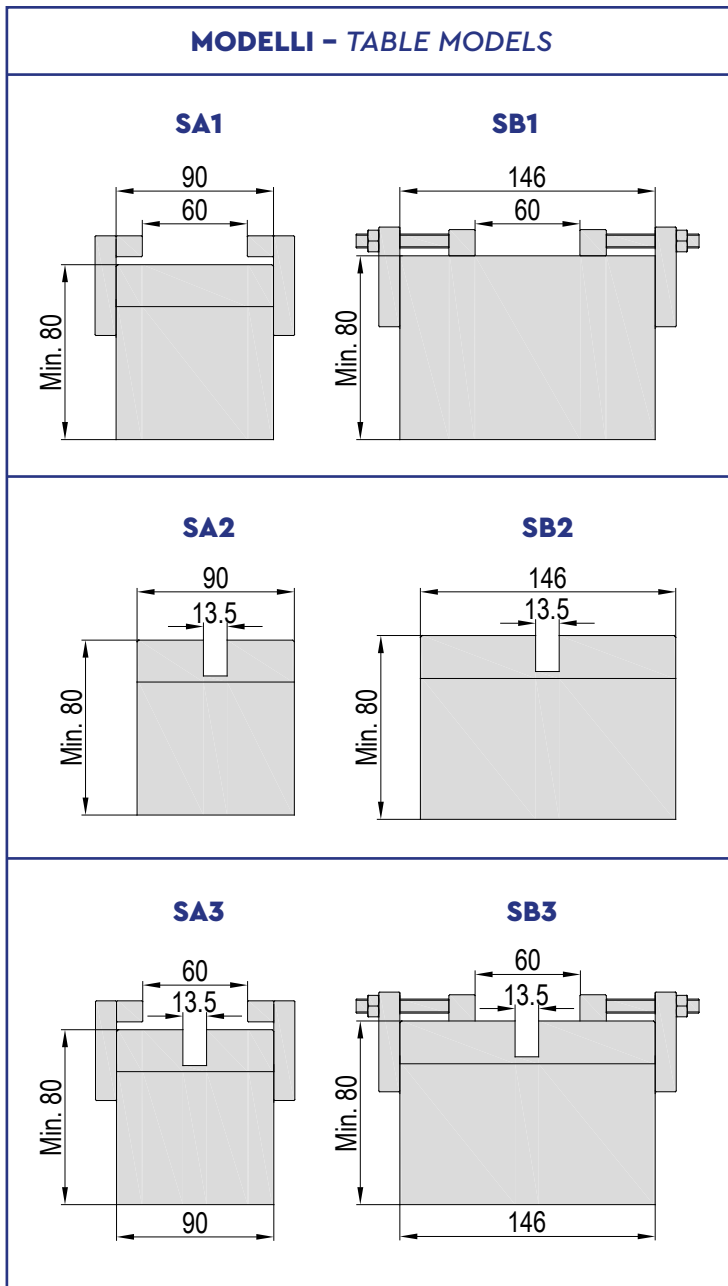
A _____ mm	F _____ mm	M _____ mm
B _____ mm	G _____ mm	N _____ mm
C _____ mm	H _____ mm	O _____ mm
D _____ mm	I _____ mm	Ø _____ mm
E _____ mm	L _____ mm	Forza pressa _____ kN Press brake force

Dati facoltativi / Facultative Data:

Errore angolare di piega / Folding angular error _____ °

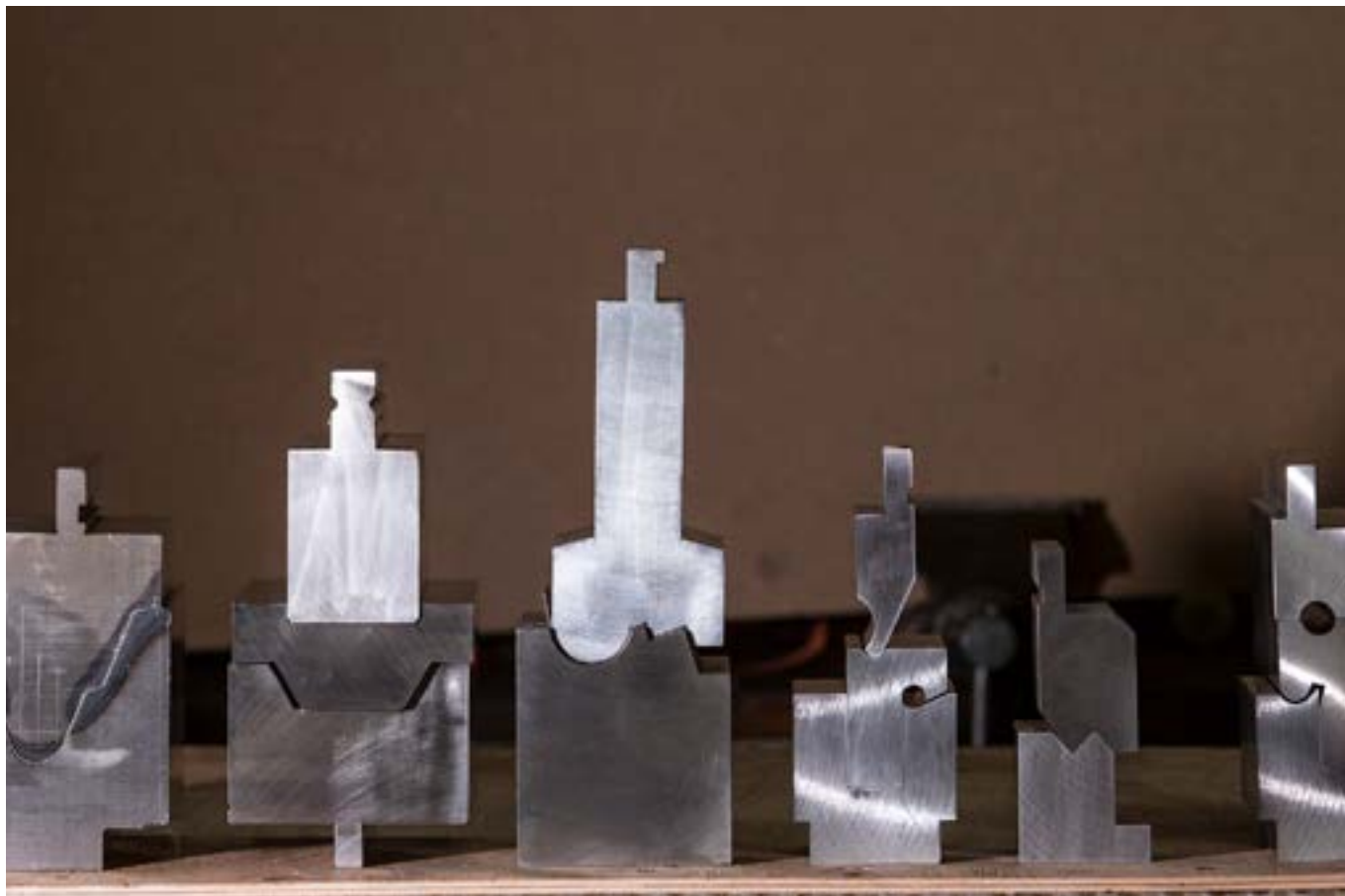
Posizione errore su linea piega / Error position on bending line _____ mm

AD AZIONAMENTO MANUALE O AUTOMATICO CNC
MANUAL OR AUTOMATIC CNC ADJUSTMENT



La freccia indica la direzione di compensazione. - The arrow indicates the compensation direction.

PER PROFILI SPECIALI/FOR SPECIAL PROFILES



Per ogni Vs. richiesta di stampi speciali, vogliate sempre indicare:

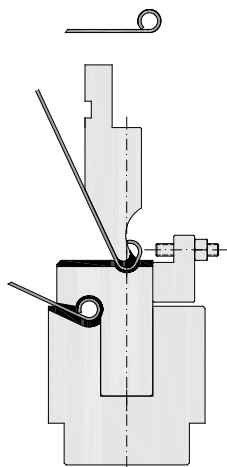
- Disegno della lamiera piegata con lunghezza della piega ed eventuali tolleranze su dimensioni e gradi;
- Tipo di lamiera (inox, ferro, alluminio, ecc..) e spessore;
- Eventuale presenza di rivestimento plastico sulla lamiera;
- Tipo di pressa piegatrice (costruttore);
- Pressione massima della pressa in tonnellate;
- Luce massima e corsa della pressa;
- Misure dell'attacco per punzone e matrice

For any enquiry on special tools, please indicate as follows:

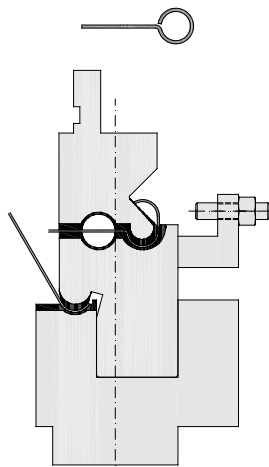
- *Drawing of the sheet metal profile, with length of bend, tolerances on dimension and degrees;*
- *Kind of sheet (stainless steel, iron aluminium, etc..) and thickness;*
- *Possible plastic coating on the sheet;*
- *Kind of press brake (builder);*
- *Maximum pressure on press-brake in tons;*
- *Type or dimensions of clamping system for punch and die;*
- *Attachment measures for punch and die*

PER PROFILI SPECIALI/FOR SPECIAL PROFILES

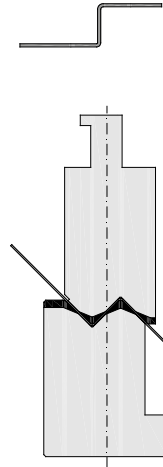
30.03



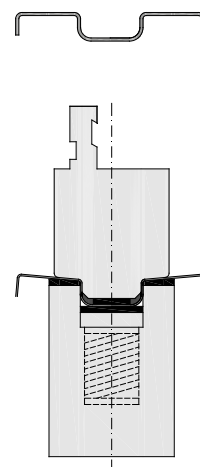
30.04



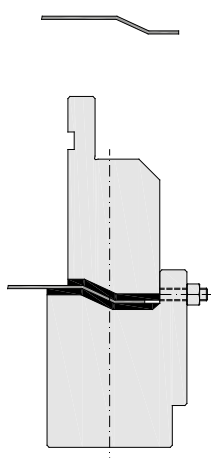
30.05



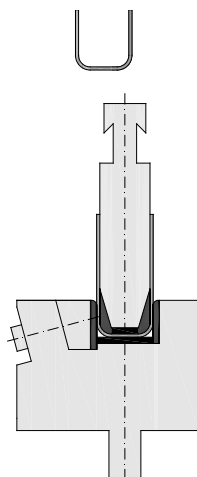
30.06



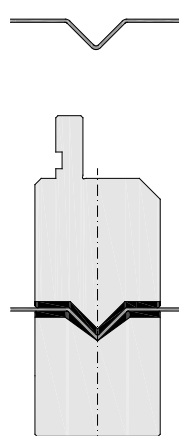
30.08



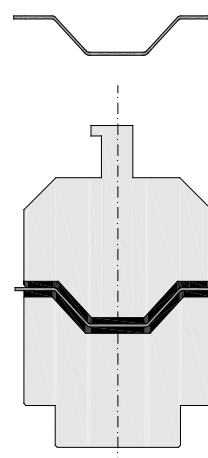
30.09



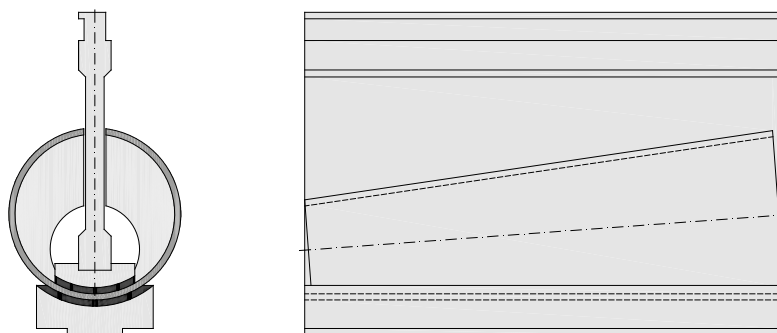
30.10



30.11



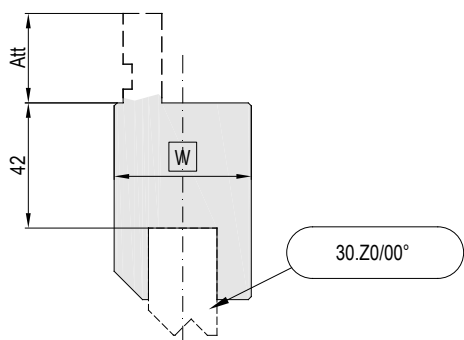
30.12



CONTENITORI PER INSERTI A Z/JOGGLE TOOL HOLDERS

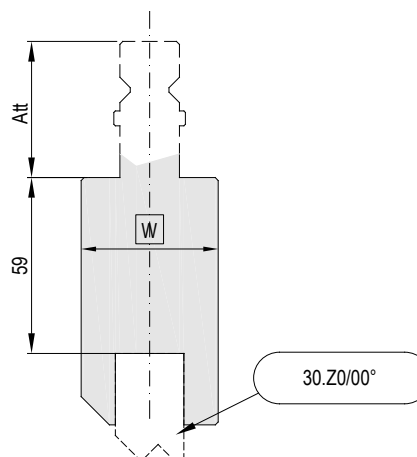
Top Type A

40.ZP 

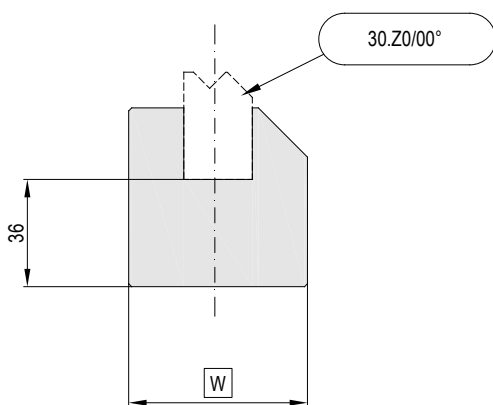


Top Type T

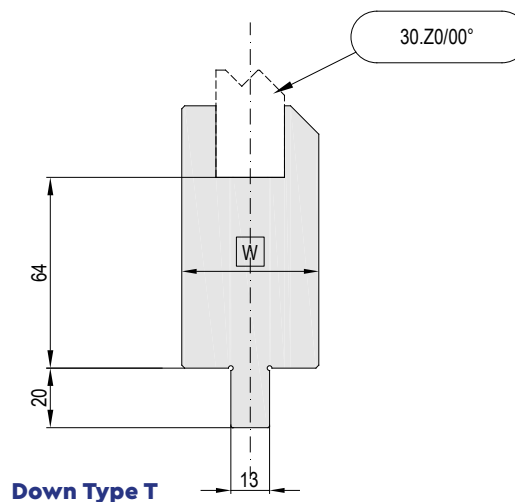
40.ZPW 



40.ZD 



40.ZDW 

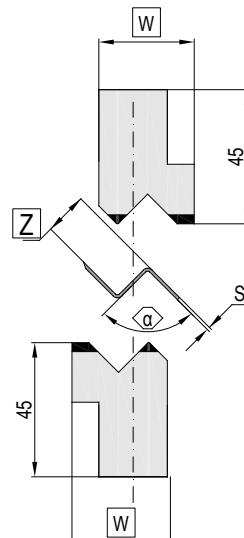
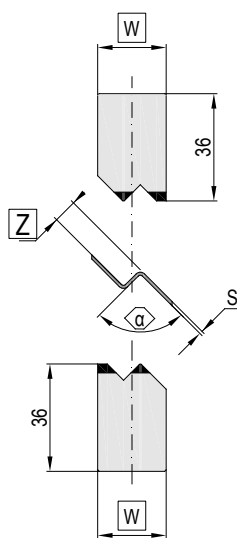


Down Type A

Down Type T

Fam.	Mod.	Tipo Attacco Sup. Top clamping type		Tipo Attacco Inf. Down clamping type		Larghezza Width	Altezza Height	Lunghezza Length	Adatto per inserti For Joggle tools	Peso Weight	Materiale Material
		Tipo Type	Modello Model	Tipo Type	Modello Model	W [mm]	H [mm]	L [mm]		K [kg]	
40.Z	40.ZP	A	B-G-EURO T-FAST	A	B60	46	42	835-415	30.Z0/00°	19-10	C45
	40.ZD					60	36			19-10	
40-ZW	40.ZPW	T/L	W	T-B	W	46	59	835-415	30.Z0/00°	26-13	C45
	40.ZDW						64			24-12	

INSERTI A Z/JOGGLE TOOL INSERT



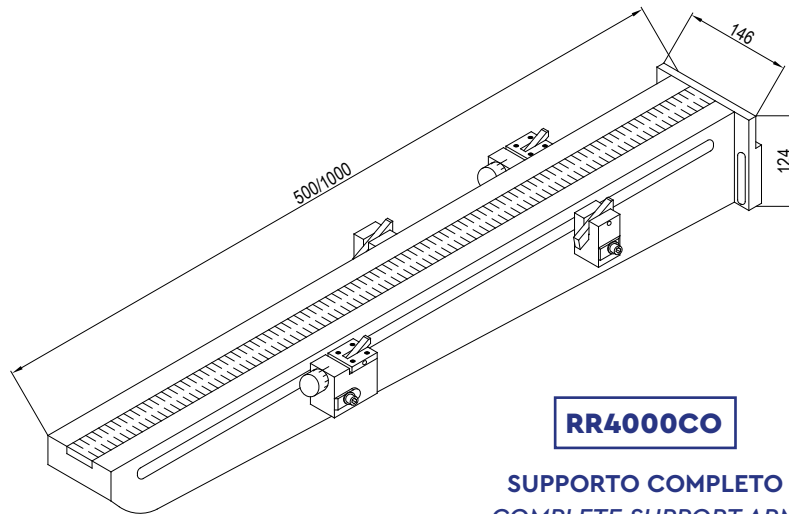
30.Z0/00°



Fam.	Mod.	Salto lamiera Joggle bending	Angolo Angle	Spessore lamiera Metal thickness	Larghezza Width	Altezza Height	Lunghezza Length	Peso Weight	Materiale Material
		Z [mm]	α [°]	S [mm]	W [mm]	H [mm]	L [mm]	K [kg]	
30.Z0/00°	30.Z1/160°	1	160°	0.5	23	36	835 - 415	10-5	C45 ●
	30.Z1.5/160°	1.5		0.6					
	30.Z2/150°	2		0.8					
	30.Z2.5/140°	2.5	140°	1					
	30.Z1/90°	1	90°	0.5					
	30.Z1.5/90°	1.5		0.6					
	30.Z2/90°	2		0.8					
	30.Z2.5/90°	2.5		1					
	30.Z3/90°	3		1.2					
	30.Z3.5/90°	3.5							
	30.Z4/90°	4		1.5					
	30.Z4.5/90°	4.5							
	30.Z5/90°	5							
	30.Z5.5/90°	5.5		2					
	30.Z6/90°	6							
	30.Z6,5/90°	6.5		2.5					
	30.Z7/90°	7							
	30.Z7,5/90°	7,5		27					
	30.Z8/90°	8							
	30.Z9/90°	9	45						
30.Z10/90°	10								
30.Z11/90°	11								
30.Z12/90°	12	32							
30.Z13/90°	13								
30.Z14/90°	14								
30.Z15/90°	15								

● temprato=Induction hardening ○ bonificato=tempered

SUPPORTI E RIFERIMENTI/SUPPORT AND GAUGE ARMS



RR4000CO

SUPPORTO COMPLETO
COMPLETE SUPPORT ARM



RR4000MI

ARRESTO A REGOLAZIONE MICROMETRICA
STOP SYSTEM WITH MICROMETRIC ADJUSTMENT



RR4000NO

ARRESTO SEMPLICE
SIMPLE STOP SYSTEM



RR4000

SUPPORTO BASE
BASE SUPPORT ARM



RR4000ST

STAFFA
ARM CLAMP

SQUADRA DI RIFERIMENTO/SQUARING ARMS



AR1

SQUADRA DI RIFERIMENTO GONIOMETRICA
SQUARING ARM WITH GONIOMETRIC



AR3

SQUADRA DI RIFERIMENTO FISSA
SQUARING ARM

ACCESSORI ANTIGRAFFIO/NO-MARKING ACCESSORIES



TEFLON

POLYURETHANE FILM



AR4

KIT TENDITORI
COUPLE OF TIGHTENERS

ARMADI PORTAUTENSILI/TOOL CABINETS



ARMADI PORTAUTENSILI

Gli armadi porta utensili sono un accessorio indispensabile per il corretto stoccaggio degli utensili per pressa. I loro vantaggi sono:

- Facilità di posizionamento semplice di matrici e punzoni all'interno dei cassetti scorrevoli.
- Modularità e possibilità di personalizzare secondo le necessità il numero e la posizione dei ripiani interni
- Robustezza: gli armadi sono progettati per contenere anche matrici e punzoni di grandi dimensioni
- Posizionamento facile, spostamento e sollevamento dell'armadio per ottimizzare l'area di lavoro/attrezzaggio

TOOL CABINETS

Tool cabinets are an essential accessory for the proper storage of press tools. In particular, they offer the following advantages:

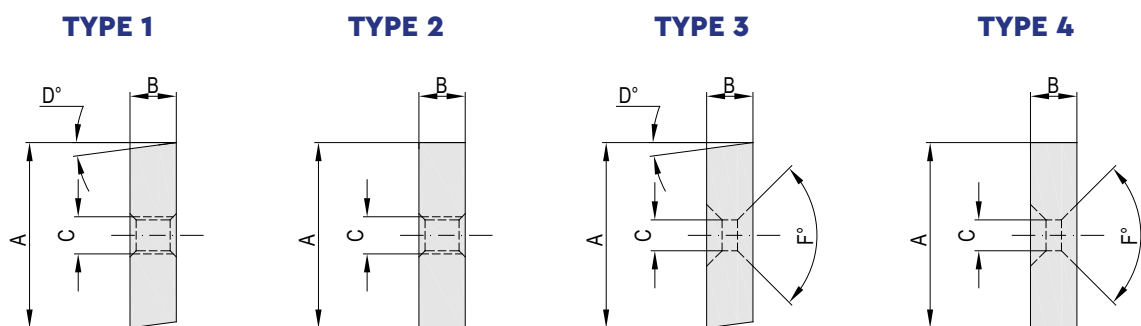
- *Ease of use: easy positioning of punches and dies inside the sliding drawers*
- *Modularity: possibility to customize the number and position of the internal shelves*
- *Sturdiness: tool cabinets are designed to hold even large punches and dies*
- *Positioning: easy moving and lifting of the tool cabinet to optimize the working/equipment area*

Fam.	Mod.	n° Cassetti n. Drawers	Capacità utensili	Larghezza	Altezza	Profondità chiusi/aperto	Colore Colour	Ripiano mobile Shelves
			Capacity	Width	Height	Length close/open		
			Mt	W [mm]	H [mm]	L [mm]		
Armadio Tool cabinet	Armadio Amada	5	60	1040	1050	1240 (2360)	Struttura Blu- Cassetti Bianchi (personalizzabile in tutti i colori RAL su richiesta)	ARRIP_AM
		4	48	850				ARRIP_TP
	Armadio Trumpf	5	60	1040	1250	1240 (2360)		ARRIP_LV
		4	48	850				ARRIP_BY
	Armadio LVD	5	50	1040	1050	1240 (2360)		ARRIP_CO
		4	40	850				
	Armadio Beyeler	5	60	1040	1250	1240 (2360)		
		4	48	850				
	Armadio Colly	5	60	1040	1250	1240 (2360)		
		4	48	850				

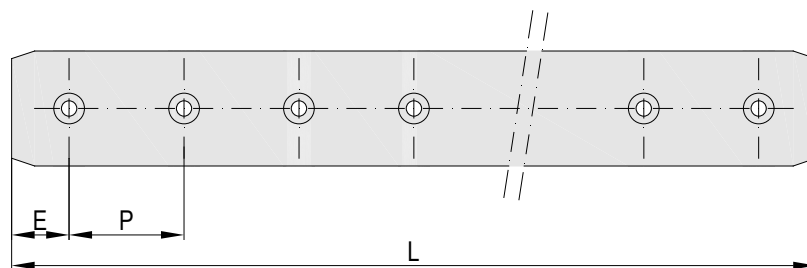
LAME DA CESCOIA/SHEAR BLADES

E' attivo presso la nostra sede il servizio di affilatura delle lame da cesoia in 24/48 ore e, a richiesta, si costruiscono lame per qualsiasi marca e modello di macchina. Per la costruzione vengono scelti acciai di prima qualità secondo le esigenze di taglio e, per ogni vostra richiesta, vogliate indicare le caratteristiche desiderate come dai seguenti disegni indicativi:

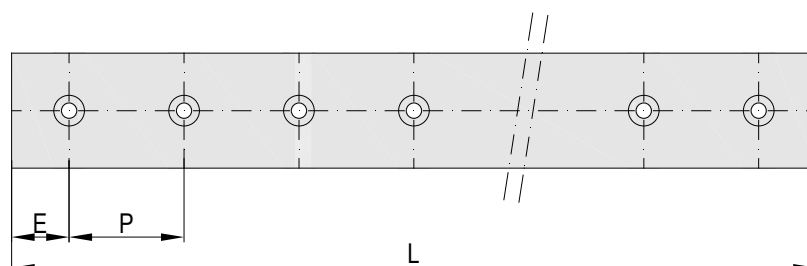
We are able to give you a shear blade sharpening service in 24/48 hour in our factory and, on request, we produce share blades for every kind of shearing machine. First quality steel are choosed for building as for needed sheet material cut. For any enquiry please indicate the necessary features as for follows drawing:



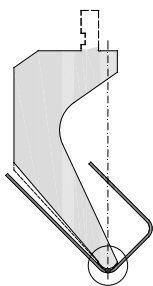
PROF. X



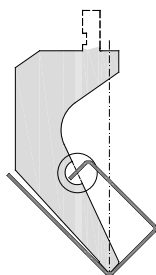
PROF. Y



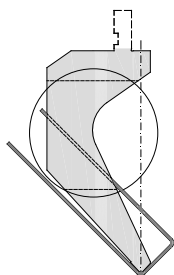
MODIFICHE/PERSONALIZZAZIONI PUNZONI/MODIFICATIONS CUSTOMIZATIONS PUNCHES



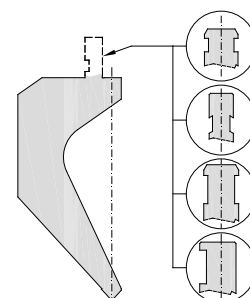
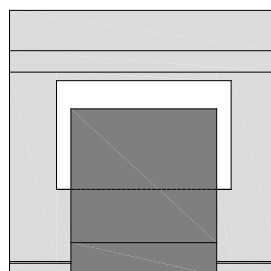
MODIFICA RAGGIO-ANGOLO
RADIUS-ANGLE MODIFICATIONS



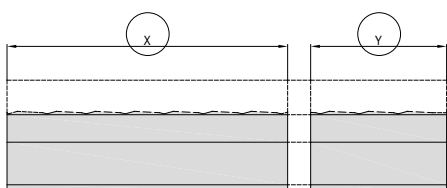
SCARICO SPECIALE
SPECIAL GROOVE



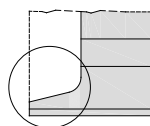
APERTURA SPECIALE - FINESTRA
SPECIAL PUNCH WINDOW



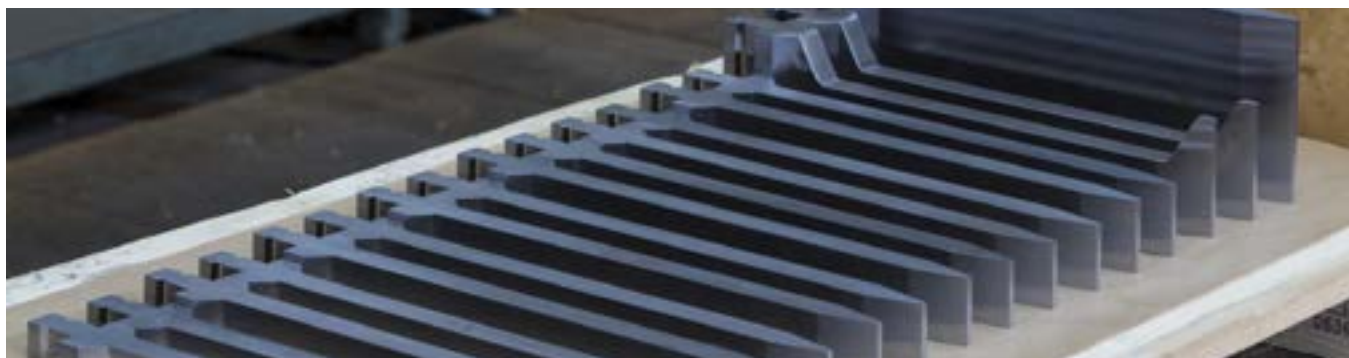
ATTACCHI SPECIALI
MODIFIED TANGS



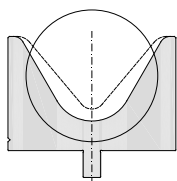
FRAZIONATURA SPECIALE
SPECIAL SECTIONING



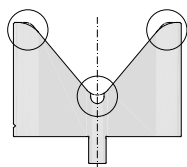
SCARPETTA SPECIALE
SPECIAL HORN



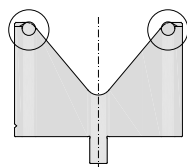
MODIFICHE/PERSONALIZZAZIONI MATRICI/MODIFICATIONS CUSTOMIZATIONS DIES



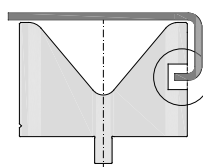
MODIFICA APERTURA V
V-OPENING MODIFYING



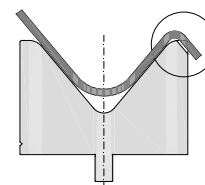
MODIFICA RAGGI
RADIUS MODIFYING



MATRICE CON RULLI TEMPRATI
DIE WITH HARDENED ROLLERS



SCARICO SPECIALE
SPECIAL GROOVE



SUBFORNITURA/SUBCONTRACTING



Realizzazioni speciali a disegno cliente:

- Utensili per linee di piegatura
 - Utensili per pannellatrici.
 - Utensili da piega
 - Guide e riscontri
- Lunghezza Max 8000mm

Special realizations according to customer design:

- *Folding line tools*
 - *Pannelling tools*
 - *Press brake tools*
 - *Guides and strikers*
- Max Length 8000mm*

SERVIZIO DI RIGENERATURA/REPAIRING SERVICE

Offriamo ai nostri clienti anche un prezioso servizio di rigeneratura e recupero di attrezzatura usurata, con eventuale sostituzione delle parti irrecuperabili.

An important repairing and rehabilitation service about worn tools is offered to our customer, with possible replacement of unrecoverable portion.



DAL MATERIALE GREZZO AL PRODOTTO FINITO / FROM RAW MATERIAL TO FINISHED PRODUCT

La Ferrari costruzioni Meccaniche ha una superficie produttiva di 5.000 m². Tutti i **materiali** acquistati provengono da una attenta selezione dei fornitori che ci garantisce la **qualità certificata con marchio CE**. La materia prima viene acquistata in lunghezze commerciali o tagliata a misura e il nostro ciclo di lavoro ci permette di eseguire tutte le lavorazioni al nostro interno così da ridurre i tempi di consegna. La nostra potenzialità produttiva è suddivisa su 4 reparti:

- **Reparto Fresatura**, dove vi sono 4 fresatrici tradizionali e 3 CNC in grado di lavorare pezzi con peso fino a 10 Ton. e dimensioni massime di 800×800×8.100 mm. Una di queste fresatrici CNC è una macchina a portale con testa a 5 assi in continuo, carico max 50 ton. e capacità dimensionale di 10.000×3000×1500 mm. Questo ci permette di ampliare notevolmente il nostro campo di lavorazioni meccaniche così da operare nella subfornitura di diversi componenti meccanici come travi, guide, piastre e strutture saldate complesse.

- **Reparto Rettifica**, dove abbiamo 10 rettifiche tangenziali per una capacità lavorativa fino a una lunghezza max di 8.100 mm per un'altezza di 800 mm. Siamo in grado di rettificare particolari di precisione con requisiti di alta qualità e tolleranze di ±0,01 mm e rugosità superficiale Ra 0,4μ. La gamma di lavorazioni di rettifica tangenziale include anche la rigeneratura di utensili e stampi usurati, lame da cesoia e spianatura e squadratura su componenti di fornitura terzi.

- **Reparto Trattamento termico**, dove abbiamo internamente una tempra a induzione, che ci permette di eseguire trattamenti di indurimento superficiale con profondità di circa 4 mm su particolari di lunghezza fino a 8.100 mm, così da ridurre i tempi di attesa dei clienti. Eseguiamo anche trattamenti c/terzi.

- **Reparto Controllo Qualità**, dove disponiamo di macchina di misura CNC ad assi cartesiani di ultima generazione, testata secondo le norme UNI EN ISO 10360-2 in grado di garantire una metrologia di alta precisione. La macchina è interfacciata con l'ufficio tecnico per la verifica del prodotto durante le singole fasi di lavorazione e per la stesura del certificato finale di controllo.



Ferrari Costruzioni Meccaniche has a production area of 5.000 m². The **materials** purchased come from a careful selection of suppliers which **guarantees us the certified quality with the CE mark**. The raw material is purchased in commercial lengths or cut to size and our work cycle allows us to carry out all the internal workings in order to reduce delivery times. Our production potential is divided into 4 departments:

- **Milling department**, where there are 4 traditional and 3 CNC milling machines capable of processing pieces weighing up to 10 tons. and maximum dimensions of 800×800×8100 mm. One of these CNC milling machines is a portal machine with a 5- axis continuous head, max load 50 tons. and dimensional capacity of 10000×3000×1500 mm. This allows us to significantly expand our field of mechanical processing so as to operate in the sub-supply of various mechanical components such as beams, guides, plates and complex welded structures.

- **Grinding department**, where we have 10 tangential adjustments for a working capacity up to a maximum length of 8100 mm for a height of 800 mm. We are able to grind precision parts with high quality requirements and tolerances of ± 0.01 mm and surface roughness Ra 0.4μ. The range of tangential grinding processes also includes the regeneration of worn tools and molds, shear blades and flattening and squaring on third-party components.

- **Heat Treatment Department**, where we have an induction hardening internally, which allows us to perform surface hardening treatments with a depth of about 4 mm on parts up to 8100 mm long, so as to reduce customer waiting times. We also perform third party treatments.

- **Quality Control Department**, where we have the latest generation of Cartesian axis CNC measuring machine, tested according to UNI EN ISO 10360-2 standards able to guarantee high precision metrology. The machine is interfaced with the technical office to verify the product during the individual processing phases and to draw up the final control certificate.

FORZA DI PIEGATURA/BENDING FORCE

Legenda:

- F → Forza di piegatura/Bending force [kN/m]
- S → Spessore lamiera/Material thickness [mm]
- V → Apertura matrice/Die opening [mm]
- Ri → Raggio interno piega/Inside radius [mm]
- B → Bordo minimo lamiera/Shortest flange [mm]
- α → Angolo di piega/Bending angle [°]

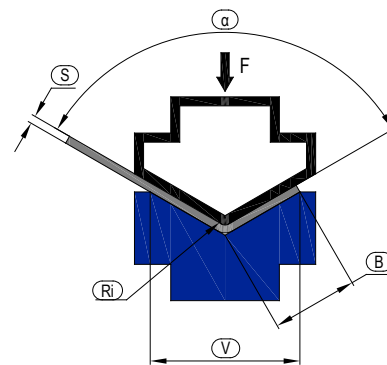


Tabella Forza di piegatura/Table of bending force - F [kN/m]

Forza Minima necessaria per piega in aria, Angolo 90° (α), Lunghezza di piega 1000 [mm]
e Materiale Acciaio S235 (Resistenza Rm = 430 [N/mm²])

Needed force for 90° air bending sheet with 1000 mm and steel S235 (Resistance Rm=430 N/mm²)

V [mm]	Ri [mm]	B [mm]	S [mm]																					
			0,5	0,8	1	1,2	1,5	2	2,5	3	4	5	6	8	10	12	15	20	25	30				
4	0,7	2,6	40	124																				
6	1	3,9	24	70	119	186																		
8	1,5	5,2	17	48	81	124	212																	
10	1,7	6,5		36	60	92	155	310																
12	2	7,8			48	72	121	239	411															
16	2,7	10,4				50	83	161	273	423														
20	3,4	13					63	120	202	310	619													
24	4	15,6						96	159	242	478	821												
30	5	19,5							119	181	352	597	929											
35	6	22,75								148	286	483	746											
40	7	26								126	241	403	619	1238										
50	8,5	32,5									182	301	458	903	1548									
55	9	35,75										267	404	791	1350									
60	10	39											239	361	703	1194								
70	12	45,5												297	573	965	1491							
80	13,5	52													252	482	806	1238	2116					
90	15	58,5														414	690	1055	1792					
100	17	65															363	602	916	1548				
120	20	78																478	722	1209				
140	24	91																	594	987	1931			
160	25	104																		831	1613	2729		
200	31	130																		629	1204	2016		
250	39	162,5																			908	1505	2291	
300	47	195																				726	1194	1806

Condizione Ottimale
Ideal condition

FORZA DI PIEGATURA/BENDING FORCE

Tabella correzione bordo minimo (B) rispetto angoli piega (α)
Table of shortest flange (B) according to bending angles (α)

Angolo di piega (α) Bending angle	30°	45°	60°	90°	120°	150°
Bordo minimo (B) Shortest flange	Bx1,6	Bx1,3	Bx1,1	B	Bx0,9	Bx0,7

Tabella correzione Forza (F) rispetto tipo materiale
Table correction force (F) according to kind of material

Materiale Lamiera/Sheet Material	Acciaio/Mild Steel	INOX/Stainless Steel	Alluminio/Aluminium
Resistenza Rm/Resistance Rm [N/mm ²]	360 - 510	650 - 700	200 - 300
Forza/Force (F)	Fx1	Fx1,55	Fx0,6

Tabella apertura minima (V) rispetto spessore lamiera (S)
Table minimum opening (V) according to sheet tickness (S)

Spessore lamiera/Sheet tickness (S)	0,5 - 2,5	3 - 8	9 - 10	> 10
Apertura Matrice/Die opening (V)	V = S x 6	V = S x 8	V = S x 10	V = S x 12

Spessore/Thickness (S)
 Materiale/Material
 Resistenza/Resistance (Rm)
 Raggio piega/Bending Radius (Ri)
 Angolo piega/Bending Angle (α)
 Apertura Matrice consigliata/Suggested opening die (V)
 Bordo minimo lamiera/Shortest flange (B)
 Forza minima da applicare/Minimum force to apply (F)

[mm] 3
 Acciaio Dolce/Mild Steel
 [N/mm²] 430
 [mm] 4
 [°] 90°
 [mm] 24
 [mm] 15.6
 [kN/m] 242

Esempio 2/Example 2:
 3
 Alluminio/Aluminium
 350
 4
 60°
 24
 (15.6x1.1) 17.2
 (242x0.6) 145

Esempio 1/Example 1:

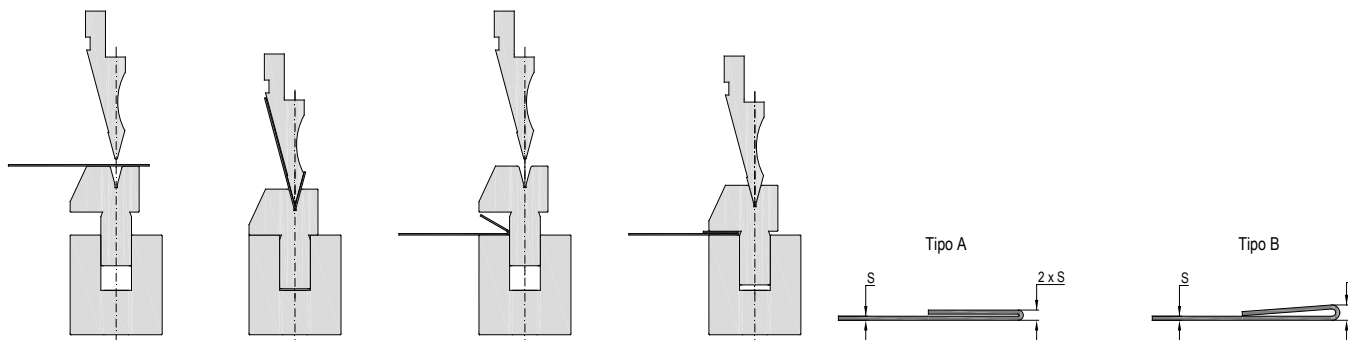


Tabella Forza piega schiacciata (Tipo A) [kN/m]/Table of force hemming tools (Type A) [kN/m]

Spessore lamiera/Material Tickness (S)	0,6	0,8	1	1,25	1,5	2	2,5	3
2 x S	1,2	1,6	2	2,5	3	4	5	6
Acciaio/Mild steel Rm 360-510	230	320	400	500	630	800	900	1000
INOX/STAINLESS STEEL Rm 650 - 700	350	500	600	800	950	1300		

Tabella Forza piega schiacciata (Tipo B) [kN/m]/Table of force hemming tools (Type B) [kN/m]

Spessore lamiera/Material Tickness (S)	0,6	0,8	1	1,25	1,5	2	2,5	3
2 x S	3	3	3,5	3,5	4,6	5,5	6,5	8
Acciaio/Mild steel Rm 360-510	90	120	150	170	220	300	550	700
INOX/STAINLESS STEEL Rm 650 - 700	150	200	250	260	380	500		

AMADA – Punzoni/Punches	Pagina/Page
10.00	12
10.10	9
10.11	9
10.12	12
10.13	10
10.14	11
10.15	13
10.15 – Back	13
10.16	10
10.17	11
10.18	13
10.20	10
10.21	11
10.26	14
10.27	14
10.28	14
10.047	14
10.049	15
10.055	15
10.057	15
10.103	10
10.108	12
10.116	9
10.146	11
10.200	9
10.202	12
10.210	13
30.01 P	16
AMADA – Matrici/Dies	Pagina/Page
20.08	21
20.09	21
20.09/60°	21
20.09/85°	21
20.10	23
20.11 B60	27
20.11 B90	27
20.16	22
20.17	22
20.30	25
20.40 H80	25
20.40 H120	26
30.01 M	29
30.01/6-8	29
30.01/10-12	30
30.02/6-8	30
70.00	24
120	23

340/30°	28
340/45°	28
340/60°	28
LVD – Punzoni/Punches	Pagina/Page
C10	35
D10	35
E10	35
F10	36
J10	36
R10	37
C15	37
D15	38
E15	38
F15	39
J15	39
R15	40
P10	41
P15	41
LVD – Matrici/Dies	Pagina/Page
V6 – V30/30° H90	45
V6 – V50/30° H130	47
V30 – V80/60° H90	45
V30 – V120/60° H130	47
V6 – V120 /78° H90	46
V6 – V120/78° H130	48
T H90 / H130	49
TRUMPF – Punzoni/Punches	Pagina/Page
SPE 10.61	55
SPE 10.62	55
SPE 10.63	55
SPE 10.64	53
SPE 10.65	53
SPE 10.66	53
SPE 10.67	53
SPE 10.68	55
SPE 10.71	54
SPE 10.72	54
SPE 10.73	54
SPE 10.74	54
SPE 10.75	56
SPE 10.76	56
SPE 10.77	56
SPE 10.78	56
SPE 10.79	57
SPE 30.01 P	57
TRUMPF – Matrici/Dies	Pagina/Page
SPE V6 – V24/30°	61
SPE V6 – V24/86°	61

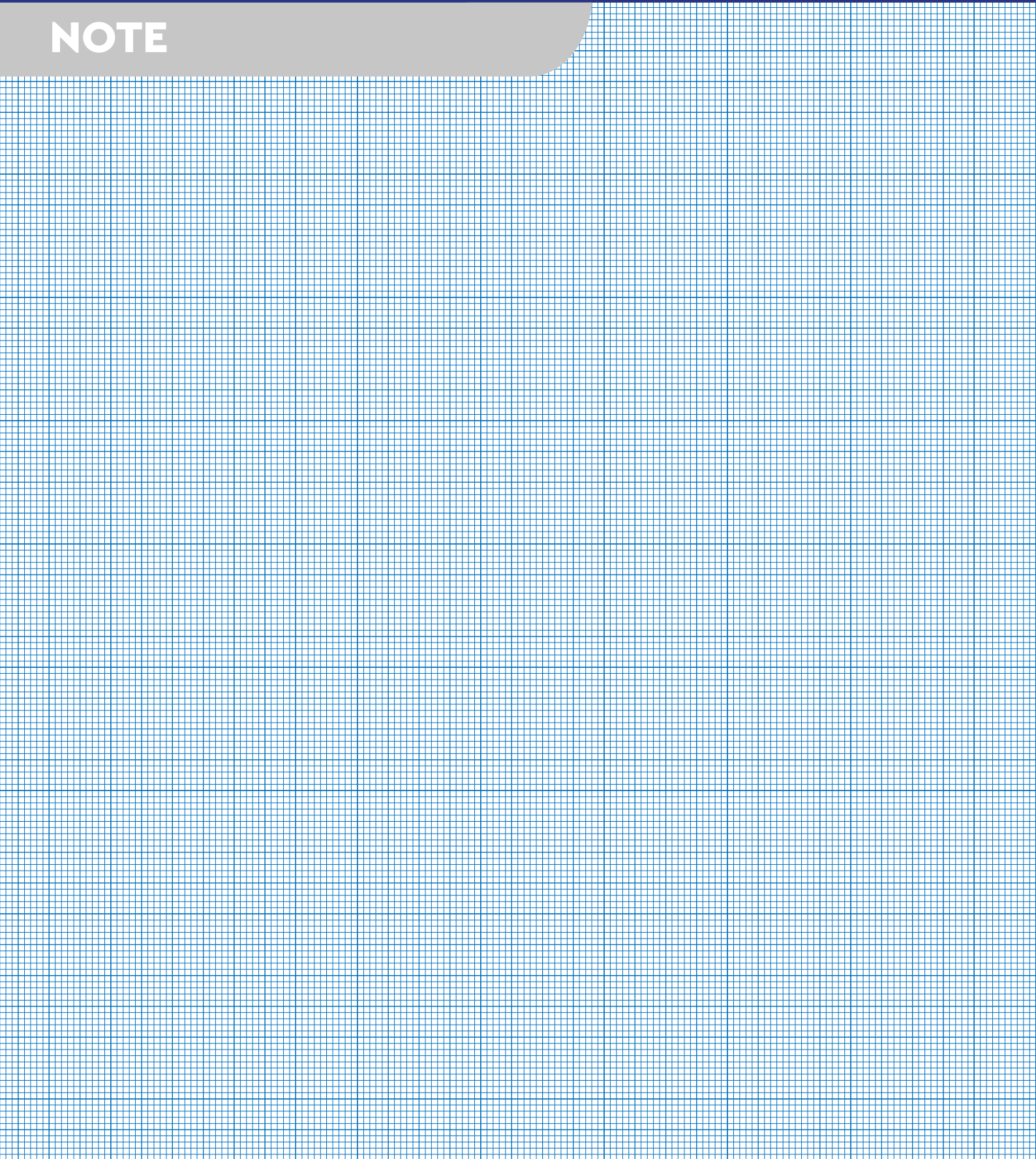
SPE V30 - V100/80°	61
SPE 30.01 M	61
BEYELER - Punzoni/Punches	Pagina/Page
P2	65
P2 H250	67
P3	65
P3 H250	67
P4	65
P4 H250	67
P5	65
P5 H250	67
P6-7	66
P6-7 H250	68
P8	66
P8 H250	68
P900	69
P900 H250	69
BEYELER - Matrici/Dies	Pagina/Page
M6 - M32	73
M40 - M60	73
M80 - M120	73
V900	73
COLLY- Punzoni/Punches	Pagina/Page
14.400	77
14.410	77
14.420	80
14.528	79
14.700	78
1.14.526	79
1.14.710	78
3.14.510	78
6.14.593	79
8.14.696	77
8.14.697	78
8.14.700	80
HACO - Punzoni/Punches	Pagina/Page
P60C	83
P110A	83
P110C	83
P200A/30°	85
P200A/86°	85
P200C	85
P400A/30°	84
P400A/86°	84
P400C	84
COLLY - Matrici/Dies	Pagina/Page
14.318	90
14.319	89

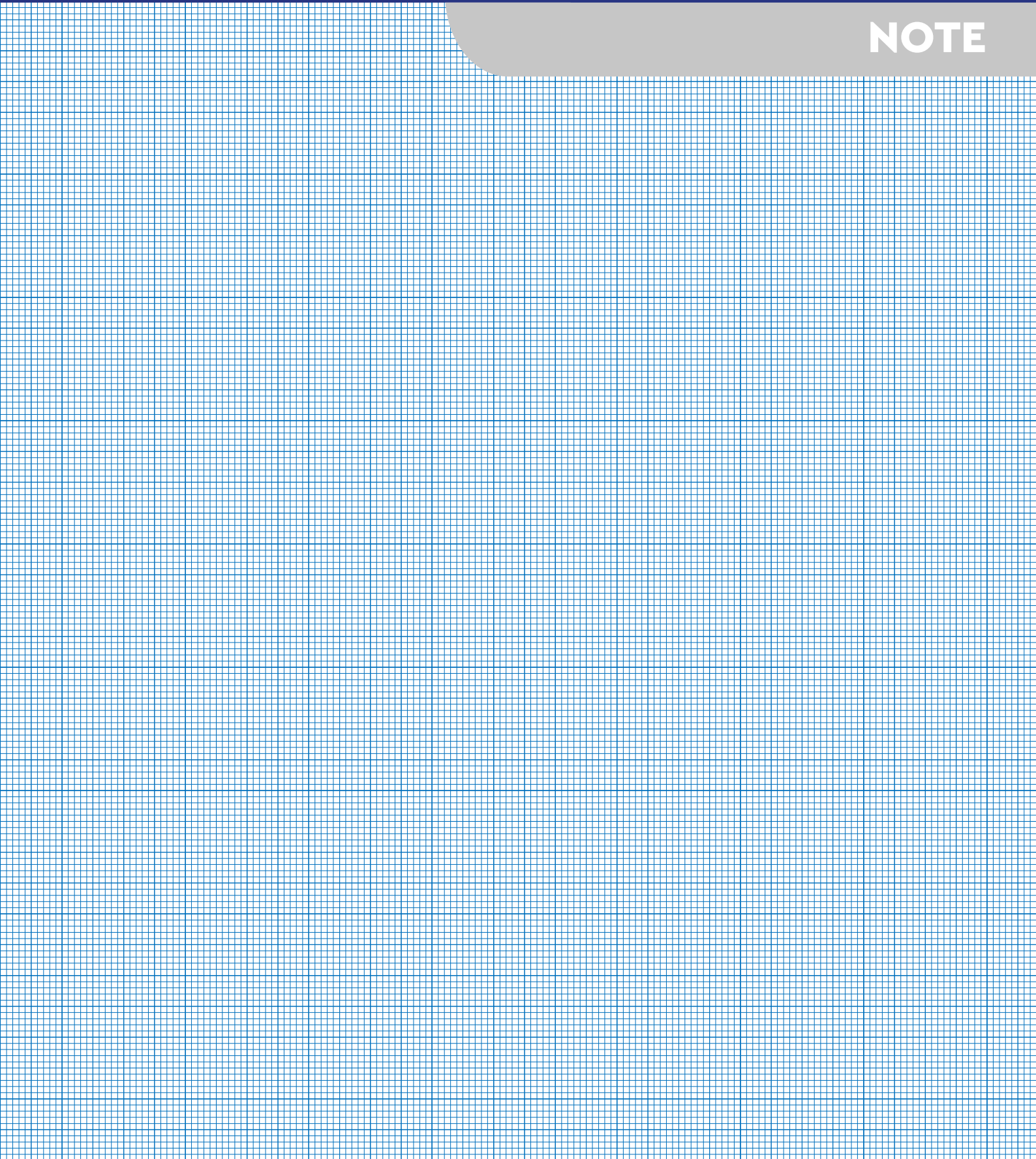
14.355	89
14.414	90
14.518	92
14.519	91
14.521	92
14.707	93
14.759	94
2.14.479	94
6.14.700	91
M01	91
HACO - Matrici/Dies	Pagina/Page
PV56	97
PV70	97
PV90	97
PV100	98
PV125	98
PV160	99
Attrezzature/Others	
Porta inserti/Holder for radius-tools	Pagina/Page
40.05	103
40.05-G	103
40.05 SPE	103
40.30	103
Inserti/Insert	Pagina/Page
40.02	104
40.09	104
40.31	104
Adattatori e intermediari utensili Amada Tool adapters and intermediates Amada	Pagina/Page
40.03	105
40.03 - C	105
40.03 - TD	105
40.20 - B	106
40.20 - L	106
40.20 - T	106
Staffe/Clamps	Pagina/Page
ST40	105
Speedblock®	Pagina/Page
40.40 -B	113
40.40 - B4	113
40.40 - C	110
40.40 - C4	110
40.40 - L	112
40.40 - L4	112
40.40 - S	109
40.40 - S4	109
40.40 - T	111
40.40 - T4	111

Adattatori e intermediari utensili TRUMPF-LVD <i>Tool adapters and intermediates TRUMPF-LVD</i>	Pagina/Page
SPE - EXT AW	116
SPE - EXT BW	116
SPE - EXT TW	116
SPE - EXT LW	116
Adattatori e intermediari utensili BEYELER <i>Tool adapters and intermediates BEYELER</i>	Pagina/Page
SPE-EXT BB	117
SPE-EXT LB	117
SPE-EXT TB	117
Adattatori inferiori/ Lower adapters	Pagina/Page
40.00	118
40.13	118
40.14	118
40.40 SPE	120
40.55	120
40.55 - LVD	120
40.55 - TR	120
40.60	119
40.60 - TR	119
8.14.053	119
8.14.053 - A	119
8.14.053 - SPE	119
Matrici porta inserto in poliuretano <i>Polyurethane insert holders</i>	Pagina/Page
60.0	122
Inserto in poliuretano/Polyurethane inserts	Pagina/Page
61.0	123
Inserto in poliuretano forato <i>Polyurethane insert with hole</i>	Pagina/Page
61.0 F	123
Matrici variabili/Variable opening dies	Pagina/Page
20.61	125
20.71	125
Matrici a rullini/Rollers dies	Pagina/Page
20.51	125
Tavole di compensazione <i>Deflection compensation table</i>	Pagina/Page
Tavole di compensazione <i>Deflection compensation table</i>	126
Stampi/Special tool sets	Pagina/Page
30.03	129
30.04	129
30.05	129
30.06	129
30.08	129
30.09	129
30.10	129

30.11	129
30.12	129
Contenitori per inserti a z <i>Joggle tool insert holder</i>	Pagina/Page
40.ZP	130
40.ZD	130
40.ZPW	130
40.ZDW	130
Inserti a Z/Joggle tool insert	Pagina/Page
30.Z0/00°	131
Accessori/Accessories	Pagina/Page
RR4000CO	132
RR4000MI	132
RR4000NO	132
RR4000	132
RR4000ST	132
AR1	133
AR3	133
TEFLON	133
AR4	133
Armadi/Tool cabinets	Pagina/Page
Armadi/Tool cabinets	134
Lame da cesoia/Shear blades	Pagina/Page
Lame da cesoia/Shear blades	135
Rigeneratura/modifiche subfornitura <i>Repairing/Modifications and subcontracting</i>	Pagina/Page
Modifiche punzoni/Punches modifications	136
Modifiche matrici/Dies modifications	136
Subfornitura/Subcontracting	137
Rigeneratura/Repairing service	137

NOTE









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