

MECOS

DEFORMACIÓN DEL METAL

UTENSILI PER PRESSE PIEGATRICI



TOOLING FOR PRESS BRAKES



UTILLAJE PARA PLEGADORA



UTILLAJE PARA DOBRADEIRAS



OUTILS POUR PRESSE PLIEUSE



WERKZEUGE FÜR ABKANTPRESSEN



ED06

BLACK LINE

LVD STYLE

www.mecos.es



EXPERIENCE & INNOVATION



Da più di 30 anni mettiamo la nostra esperienza al servizio del cliente, progettando e producendo utensili per tutti i tipi di presse piegatrici e cesoie. I prodotti Tecnostamp vengono interamente progettati e costruiti in Italia e commercializzati in tutto il mondo; la nostra azienda offre anche un efficiente servizio post-vendita garantito dalla competenza dei nostri tecnici e dall'assistenza telefonica dell'ufficio commerciale.



For over 30 years Tecnostamp designs and produces tools for all types of press brakes and shears, offering its experience to meet customer requirements. Tecnostamp products are fully designed and produced in Italy and they are sold worldwide; our company also offers an efficient after sales service guaranteed by the experience of our technicians and by the helpline of our sales department.



De más de 30 años, empleamos nuestra experiencia al servicio del cliente, proyectando y produciendo utillajes para todo tipo de prensas plegadoras y cizalladura. Tecnostamp produce en su propia fabrica todos los productos y comercializa en todo el mundo; nuestra empresa también ofrece un servicio post-venta eficiente garantizado por la experiencia de nuestros técnicos y la asistencia telefónica de oficina comercial.



Há mais de 30 anos que colocámos a nossa experiência ao serviço do cliente, projetando e produzindo ferramentas para todos de tipos de quinadoras/dobreadeiras e fesoura. Os produtos Tecnostamp são inteiramente projetados e construídos em Itália e comercializados em todo o mundo; a nossa empresa também oferece um serviço pós-venda eficiente garantido pela experiência dos nossos técnicos e pela assistência telefónica de nosso escritório de vendas.



Depuis plus de 30 ans, nous mettons notre expérience au service de la clientèle, avec la conception et la production d'outils pour presses plieuses et cisailles. Les produits Tecnostamp sont entièrement conçus et fabriqués en Italie et vendus dans le monde; notre entreprise offre un service après-vente garanti par la compétence de nos techniciens et l'assistance téléphonique de notre bureau commercial.



Seit mehr als 30 Jahren setzt Tecnostamp seine Erfahrung in der Kundenbetreuung, Entwicklung und der Herstellung von Abkantwerkzeuge für alle Typen von Abkantpressen ein und schert. Unsere Produkte werden komplett in Italien entworfen, hergestellt und weltweit verkauft. Unser Unternehmen bietet Ihnen auch einen effizienten After-Sales-Service durch das Know-How unserer Techniker und die Hotline unseres Vertriebsbüros.



OUR PRODUCT LINES



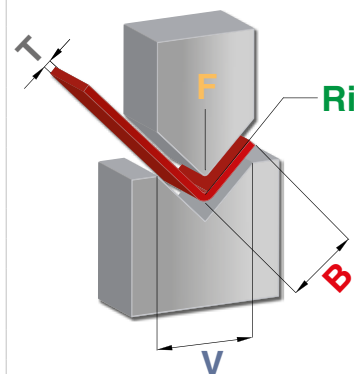
TABELLA DI PIEGATURA - BENDING CHART

FORZA NECESSARIA PER PIEGA A 90° IN ARIA DI LAMIERA CON RESISTENZA
 FORCE REQUIRED FOR 90° AIR BENDING, SHEET RESISTANCE
 FUERZA NECESARIA PARA PLEGAR A 90° CON LA RESISTENCIA
 FORÇA NECESSÁRIA PARA QUINAR/DOBRAR NO AR A 90° COM RESISTÊNCIA
 FORCE NÉCESSAIRE POUR LE PLIAGE EN L'AIR À 90 ° AVEC RÉSISTANCE
 ERFORDERLICHE PRESSKRAFT FÜR 90° FREIBIEGEN, ZUGFESTIGKEIT



R=45 Kg/mm

T	6	8	10	12	16	20	25	32	40	50	63	80	100	125	160	200	250	V
mm	4	5.5	7	8.5	11	14	17.5	22	28	35	45	55	71	89	113	140	175	B
	1	1.3	1.6	2	2.6	3.3	4	5	6.5	8	10	13	16	20	26	33	41	Ri
0.5	3																	
0.6	4	4																
0.8	7	5	4															
1	11	8	7	6														
1.2	16	12	10	8	6													
1.5		17	15	13	9	8												
2			27	22	17	13	11											
2.5				35	26	21	17	13										
3					38	30	24	19	15									
4						54	42	34	27	21								
5							67	52	42	33	26							
6								75	60	48	38	30						
8									107	85	68	53	43					
10										134	105	85	67	53				
12											153	120	96	78	60			
15												188	150	120	95	75		
20													270	215	170	135	108	F
																		t/m



SPESSORE LAMIERA IN MM - THICKNESS OF THE SHEET IN MM - ESPESOR DE CHAPA MM
 ESPESSURA DA CHAPA EM MM - ÉPAISSEUR DE TÔLE EN MM - MATERIALDICKE IN MM

FORZA IN TON /METRO - FORCE IN TON /METER - FUERZA TON/METRO
 FORÇA TON/METRO - FORCE EN TON/METRE - PRESSKRAFT IN T/M

RAGGIO INTERNO - INSIDE RADIUS - RADIO INTERIOR - RAIO INTERNO - RAYON INTÉRIEUR - INNENRADIUS

BORDO MINIMO POSSIBILE - MINIMUM FLANGE LENGHT - ALA MINIMA
 ABA MINIMA - BORD MINI POSSIBLE - KÜRZESTE SCHENKELLANGE

LARGHEZZA DEL V - V-OPENING - APERTURA MATRIZ - ABERTURA DO V - LARGEUR DU VE - MATRIZENÖFFNUNGSWEITE V

T

F

Ri

B

V

CALCOLO DELLA FORZA PER PIEGA IN ARIA

CALCULATION OF FORCE FOR AIR BENDING

CÁLCULO DE LA FUERZA DE PLEGADO AL AIRE

CÁLCULO DE FORÇA DA QUINAGEM/DOBRA NO AR

CALCUL DE LA FORCE POUR PLIAGE EN L'AIR

BESTIMMUNG DER PRESSKRAFT

$$F = \frac{T^2 \times 2 \times R}{1.4 \times V} = \dots\dots\dots \text{Tons/mt}$$

ALLUMINIO - ALUMINIUM - ALUMINIO - ALUMINIO - ALUMINIUM - ALUMINIUM

R=20-25 KG/MMQ

ACCIAIO DOLCE - MILD STEEL - ACERO - AÇO - ACIER - STAHL

R=40-45 KG/MMQ

INOX - STAINLESS STEEL - INOX - INOX - ACIER INOXYDABLE - EDELSTAHL

R=65-70 KG/MMQ

RAPPORTO TRA SPESSORE DI LAMIERA E AMPIEZZA DEL V - SHEET THICKNESS / V- WIDTH

CHAPA ESPESSOR / ANCHO V - ESPESSURA DA CHAPA / LARGURA V

RAPPORT ÉPAISSEUR DE TÔLE / LARGEUR DU VE - MATERIALDICKE / MATRIZENÖFFNUNGSWEITE V

SPESSORE LAMIERA (mm) - SHEET THICKNESS (mm) - ESPESOR DE CHAPA (mm)	0.5 - 2.5	3 - 8	9 - 10	12 OR MORE
ESPESSURA DA CHAPA (mm) - ÉPAISSEUR DE TÔLE (mm) - MATERIALDICKE (mm)				
AMPIEZZA DEL V (mm) - V - WIDTH (mm) - ANCHO V (mm)	6 T	8 T	10 T	12 T
LARGURA V (mm) - LARGEUR DU VE (mm) - MATRIZENÖFFNUNGSWEITE V (mm)				

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TRATTAMENTI TERMICI E TIPO DI MATERIALE - HARDENED TREATMENT AND TYPE OF MATERIAL

TRATTAMENTI TERMICI - HARDENED TREATMENT - TRATAMIENTOS ENDURECIDOS - TRATAMENTOS TÉRMICOS - TRAITEMENTS THERMIQUES - HÄRTEBEHANDLUNG

GLI UTENSILI STANDARD E SPECIALI SONO TEMPRATI AD INDUZIONE SULLE PARTI USURABILI A 52-55 HRC.

THE STANDARD AND SPECIAL TOOLS ARE INDUCTION HARDENED TO 52-55 HRC ON WEAR PARTS.

LAS HERRAMIENTAS ESTÁNDAR Y ESPECIALES VIENEN TEMPLADAS POR INDUCCIÓN DE 52-55 HRC EN PIEZAS DE DESGASTE.

AS FERRAMENTAS STANDARD E ESPECIAIS SÃO TEMPERADAS POR INDUÇÃO 52-55 HRC NA ZONA DE DESGASTE.

LES OUTILS STANDARDS ET SPÉCIAUX SONT TREMPÉS PAR INDUCTION À 52-55 HRC SUR LES PARTIES TRAVAILLANTES.

DIE VERSCHLEISSTEILE DER STANDARD UND SONDERWERKZEUGE SIND INDUKTIV AUF 52-55HRC GEHÄRTET.

TRATTAMENTI ANTIUSURA - ANTIWEAR TREATMENT - TRATAMIENTOS ANTI-DESGASTE - TRATAMENTOS ANTI-DESGASTE - TRAITEMENTS ANTI-USURE - BEHANDLUNG FÜR VERSCHLEISSCHUTZ

A RICHIESTA DEL CLIENTE, SUGLI UTENSILI COSTRUITI IN 42CRM04, PUÒ ESSERE FATTO UN TRATTAMENTO ANTIUSURA DI NITRURAZIONE.

ON REQUEST ON THE TOOLING IN 42CRM04 TECNOSTAMP CAN MAKE AN ANTIWEAR-NITRIDING TREATMENT.

OPCIONALMENTE, AL UTILLAJE EN 42CRM04, SE LE PUEDE HACER UN TRATAMIENTO ANTI-DESGASTE – NITRURACIÓN.

A PEDIDO DO CLIENTE EM FERRAMENTAS FABRICADAS EM 42CRM04, TECNOSTAMP PODE FAZER UM TRATAMENTO DE NITRETAÇÃO ANTI-DESGASTE.

SUR DEMANDE LES OUTILS EN 42CRM04 PEUVENT SUBIR UN TRAITEMENT ANTI-USURE EN NITRURATION.

AUF ANFRAGE AUF DEM WERKZEUG IN 42CRM04 TECNOSTAMP KANN EINE ANTIVERSCHLEISS - NITRIERBEHANDLUNG ZU MACHEN.

TRATTAMENTI ANTIRUGGINE - RUSTING TREATMENT - TRATAMIENTOS ANTI-OXIDACIÓN - TRATAMENTOS ANTI OXIDAÇÃO - TRAITEMENTS ANTIROUILLE - BEHANDLUNG GEGEN ROST

A RICHIESTA DEL CLIENTE SUGLI UTENSILI PUÒ ESSERE FATTO IL TRATTAMENTO ANTI RUGGINE DI ZINCATURA.

AN ANTI RUST-GALVANIZED TREATMENT CAN BE MADE ON TOOLS ON REQUEST.

OPCIONALMENTE, A LOS UTILLAJES SE LES PUEDE DAR UN TRATAMIENTO ANTI-ÓXIDO-GALVANIZADO.

A PEDIDO DO CLIENTE, A TECNOSTAMP PODE FAZER UM TRATAMENTO ANTIFERRUGEM ZINCADO.

SUR DEMANDE UN TRAITEMENT ANTI-ROUILLE PEUT ÊTRE RÉALISÉ EN GALVANISÉ.

AUF ANFRAGE KANN TECNOSTAMP MEINE ANTI-ROST BEHANDLUNG ANBIETEN.

TIPO DI MATERIALE - TYPE OF MATERIAL - TIPO DE MATERIAL UTILIZADO - TIPO DE MATERIAL UTILIZADO - TYPE DE MATÉRIEL - ART DES MATERIALS



ACCIAIO C45 (UNI EN 10083 W.1. : 1.1191).
STEEL C45 (UNI EN 10083 W.1. : 1.1191).
ACERO C45 (UNI EN 10083 W.1. : 1.1191).
AÇO C45 (UNI EN 10083 W.1. : 1.1191).
ACIER C45 (UNI EN 10083 W.1. : 1.1191).
STAHL C45 (UNI EN 10083 W.1. : 1.1191).



ACCIAIO C45 (UNI EN 10083 W.1. : 1.1191) TEMPRATO AD INDUZIONE (52/55 HRC) SULLE PARTI USURABILI.
STEEL C45 (UNI EN 10083 W.1. : 1.1191) INDUCTION TEMPERED (52-55 HRC) ON WEAR PARTS.
ACERO C45 (UNI EN 10083 W.1. : 1.1191) TEMPLADO A INDUCCIÓN EN ZONA DE DESGASTE (52/55 HRC).
AÇO C45 (UNI EN 10083 W.1. : 1.1191) TEMPERADO POR INDUÇÃO NAS ZONAS DE DESGASTE (52-55 HRC).
ACIER C45 (UNI EN 10083 W.1. : 1.1191) TREMPÉ PAR INDUCTION (52-55 HRC) SUR LES PARTIES TRAVAILLANTES.
STAHL C45 (UNI EN 10083 W.1. : 1.1191), VERSCHLEISSTEILE INDUKTIV AUF (52-55HRC) GEHÄRTET.



ACCIAIO C45 (UNI EN 10083 W.1. : 1.1191) BONIFICATO R=80-85 KG/MMQ TEMPRATO AD INDUZIONE (52/55 HRC) SULLE PARTI USURABILI.
STEEL C45 (UNI EN 10083 W.1. : 1.1191) HARDENED R=80-85 KG/MMQ INDUCTION TEMPERED (52-55 HRC) ON WEAR PARTS.
ACERO C45 (UNI EN 10083 W.1. : 1.1191) BONIFICADO R=80-85 KG/MMQ TEMPLADO A INDUCCIÓN EN ZONA DE DESGASTE (52/55 HRC).
AÇO C45 (UNI EN 10083 W.1. : 1.1191) BONIFICADO R=80-85 KG/MMQ TEMPERADO POR INDUÇÃO NAS ZONAS DE DESGASTE (52-55 HRC).
ACIER C45 (UNI EN 10083 W.1. : 1.1191) RESISTANCE R = 80-85 KG/MMQ ET TREMPÉ PAR INDUCTION (52-55 HRC) SUR LES PARTIES TRAVAILLANTES.
STAHL C45 (UNI EN 10083 W.1. : 1.1191) VERGÜTET R=80-85 KG/MM2 AN DEN ABNUTZUNGSKANTEN INDUKTIV GEHÄRTET AUF (52/55 HRC).



ACCIAIO 42CRM04 (UNI EN 10083 W.1. : 1.7225) BONIFICATO R=95-105 KG/MMQ TEMPRATO AD INDUZIONE (52/55 HRC) SULLE PARTI USURABILI.
STEEL 42 CRMO4 (UNI EN 10083 W.1. : 1.7225) HARDENED R=95-105 KG/MMQ INDUCTION TEMPERED (52-55 HRC) ON WEAR PART.
ACERO 42CRM04 (UNI EN 10083 W.1. : 1.7225) BONIFICADO R=95-105 KG/MMQ TEMPLADO A INDUCCIÓN EN ZONA DE DESGASTE (52/55 HRC).
AÇO 42 CRMO4 (UNI EN 10083 W.1. : 1.7225) BONIFICADO R=95-105 KG/MMQ TEMPERADO POR INDUÇÃO NAS ZONAS DE DESGASTE (52-55 HRC).
ACIER 42 CRMO4 (UNI EN 10083 W.1. : 1.7225) RESISTANCE R=95-105 KG/MMQ ET TREMPÉ PAR INDUCTION (52-55 HRC) SUR LES PARTIES TRAVAILLANTES.
STAHL 42 CRMO4 (UNI EN 10083 W.1. : 1.7225) VERGÜTET R=95-105 KG/MM2 AN DEN ABNUTZUNGSKANTEN INDUKTIV GEHÄRTET AUF (52/55 HRC).



PUNZONI PUNCHES



BLACK LINE

LVD STYLE

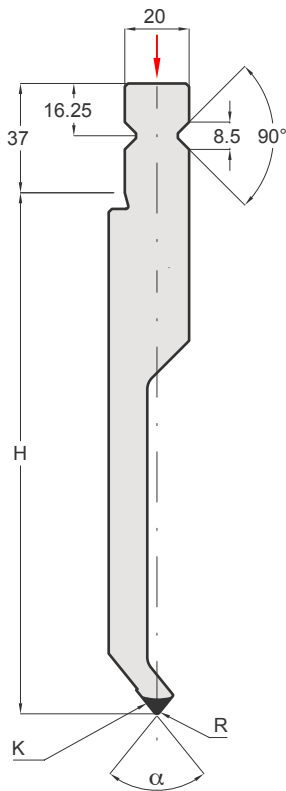
PUNZONI - PUNCHES - PUNZONES

PUNÇÕES - POINÇONS - OBERWERKZEUGE

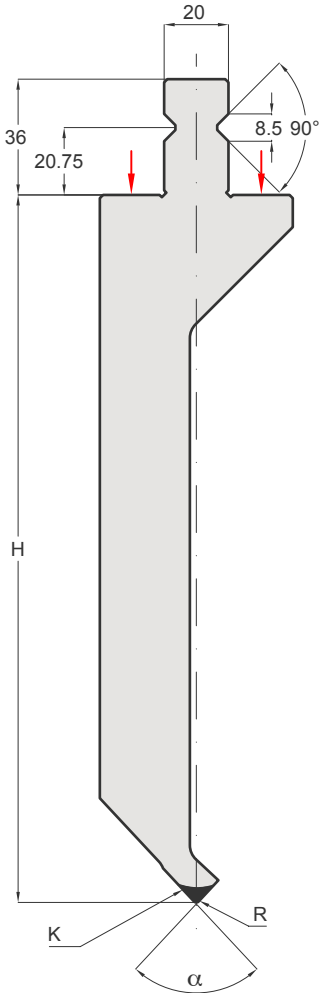
PUNZONI - PUNCHES

I PUNZONI STANDARD SONO DISPONIBILI A MAGAZZINO NELLE LUNGHEZZE DI: 510 mm E FRAZIONATI (550 mm)
STANDARD PUNCHES ARE AVAILABLE ON STOCK IN THE FOLLOWING STANDARD LENGTHS: 510 mm AND SECTIONED (550 mm)
LOS PUNZONES ESTÁN DISPONIBLES EN STOCK Y EN LONGITUDES DE: 510 mm Y FRACCIONADOS (550 mm)
OS PUNÇÕES ESTÃO DISPONÍVEIS EM STOCK/ESTOQUE E EM COMPRIMENTOS DE: 510 mm E FRACIONADOS (550 mm)
LES POINÇONS STANDARD SONT DISPONIBLES EN LONGUEURS: 510 mm ET FRACTIONNÉS (550 mm)
STANDARD-OBERWERKZEUGE SIND IN DEN FOLGENDEN LÄNGEN AB LAGER ERHÄLTICH: 510 mm UND SEKTIONIERT LÄNGE (550 mm)

SPINTA IN TESTA
FORCE ON HEAD



SPINTA SULLE SPALLE
FORCE ON SHOULDERS



LEGENDA	LEGEND	LEYENDA	LEGENDA	LÉGENDE	LEGENDE
H = ALTEZZA	HEIGHT	ALTURA	ALTURA	HAUTEUR	STEMPELHÖHE
α = ANGOLO	ANGLE	ÁNGULO	ÁNGULO	ANGLE	WINKEL
R = RAGGIO	RADIUS	RADIO	RAIO	RAYON	RADIUS
K = PARTI USURABILI	WEAR PARTS	ZONDA DE DESGASTE	ZONAS DE DESGASTE	ZONES D'USURE	VERSCHLEISSTEILE

SU RICHIESTA - ON REQUEST - A PETICIÓN - A PEDIDO - SUR DEMANDE - AUF ANFRAGE

A

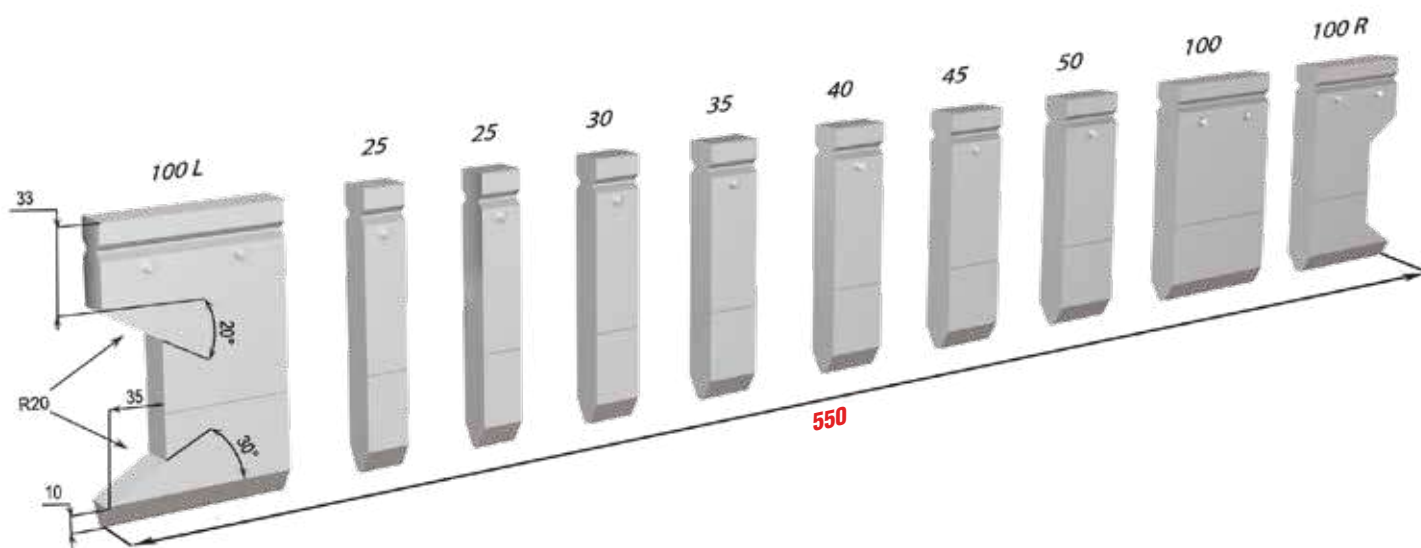
B

C

D



510 mm



550 mm

IL CARICO MASSIMO DELLE SCARPETTE CORRISPONDE AL 30% DEL CARICO MASSIMO INDICATO SUL PUNZONE.

THE FMAX OF THE HORN EXTENSIONS IS 30% OF THE FMAX OF THE PUNCH.

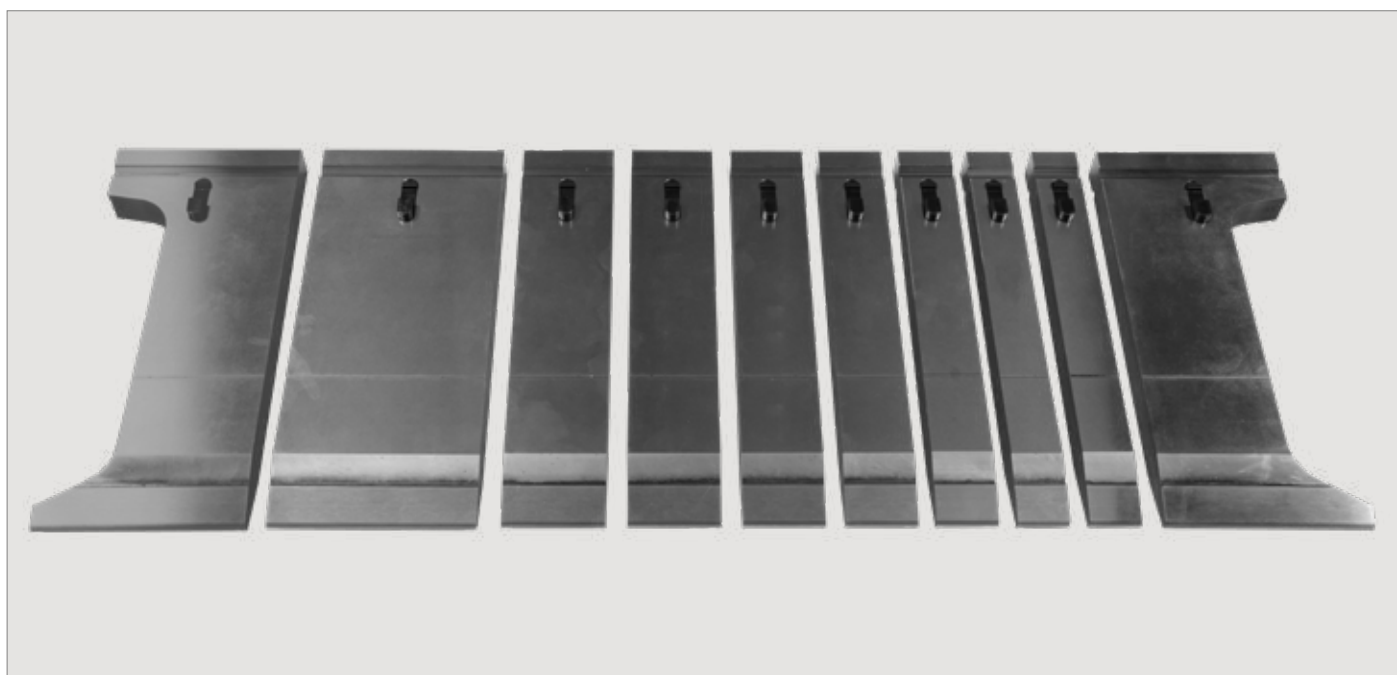
LA CARGA MÁXIMA EN LA BIGORNIAS, ES EL 30% DEL TONELAJE MÁXIMO INDICADO EN LOS PUNZONES.

A CARGA MÁXIMA NAS BIGORNAS É DE 30% DA TONELAGEM TOTAL MÁXIMA INDICADA PARA O PUNÇÃO.

LA FMAX DES BIGORNES REPRESÉNTÉ 30% DE LA FMAX DU POINÇON.

DIE FMAX DER HORNSTÜCKE BETRÄGT 30% DER FMAX DES STEMPELS

LENGTH	510
SECTION	550



MONTAGGIO/SMONTAGGIO LATERALE DEGLI UTENSILI - SIDE INSTALLATION/DISINSTALLATION OF TOOLS

MONTAGGIO E SMONTAGGIO LATERALE DEGLI UTENSILI - SIDE INSTALLATION/DISINSTALLATION OF TOOLS - MONTAJE Y DESMONTAJE DE LADO HERRAMIENTA
MONTAGEM E DESMONTAGEM LATERAL DAS FERRAMENTAS - MONTAGE ET DÉMONTAGE LATÉRAL DES OUTILS - SEITLICHER AUS-UND EINBAU DER WERKZEUGE



SPINTA IN TESTA

PRESSURE SURFACE ON THE HEAD

FUERZA EN CENTRO

FORÇA NO CENTRO

POINT DE POUSSÉE SUR LA TÊTE

KOPFTRAGEND



SPINTA SULLE SPALLE

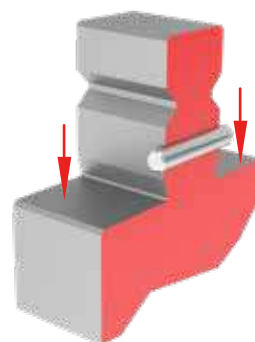
PRESSURE SURFACE ON THE SHOULDERS

FUERZA EN LATERALES

FORÇA NOS OMBROS

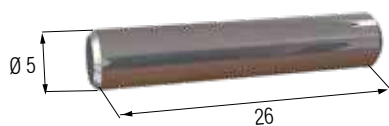
POINT DE POUSSÉE LATÉRAL

SCHULTERTARGEND



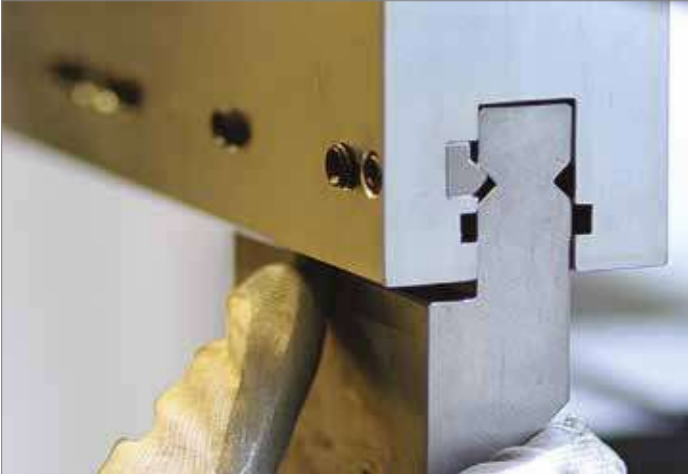
PARTI DI RICAMBIO - SPARE PARTS - RECAMBIOS - PEÇAS DE SUBSTITUIÇÃO - PIÈCES DE RECHANGE - ERSATZTEILE

70.130



MONTAGGIO/SMONTAGGIO LATERALE DEGLI UTENSILI - SIDE INSTALLATION/DISINSTALLATION OF TOOLS

MONTAGGIO E SMONTAGGIO FRONTALE DEGLI UTENSILI - FRONT INSTALLATION/DISINSTALLATION OF TOOLS - EL MONTAJE Y DESMONTAJE EL FRENTE DE HERRAMIENTAS
MONTAGEM E DESMONTAGEM FRONTAL DAS FERRAMENTAS - MONTAGE ET DÉMONTAGE FRONTAL DES OUTILS - EIN-UND AUSBAU DER WERKZEUGE NACH VORNE

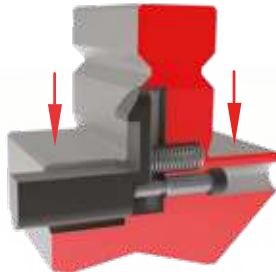


SPINTA IN TESTA
PRESSURE SURFACE ON THE HEAD
FUERZA EN CENTRO
FORÇA NO CENTRO
POINT DE POUSÉE SUR LA TÊTE
KOPFTRAGEND





SPINTA SULLE SPALLE
PRESSURE SURFACE ON THE SHOULDERS
FUERZA EN LATERALES
FORÇA NOS OMBROS
POINT DE POUSÉE LATÉRAL
SCHULTERTARGEND



SOLO PER STAMPI FINO A 12,5 KG - ONLY FOR TOOLS 12,5 KG - PARA HERRAMIENTAS DE HASTA 12,5 KG
APENAS PARA FERRAMENTA ATÉ 12,5 KG - POUR OUTILS NE DEPASSANT PAS 12,5 KG - FÜR WERKZEUGE BIS 12,5 KG GEWICHT

70.714



ONLY FOR TOOLS
16.204 16.209

70.715



ONLY FOR TOOLS
16.201 16.202 16.203
16.206 16.207 16.208

70.718



ONLY FOR TOOLS
16.200 16.205

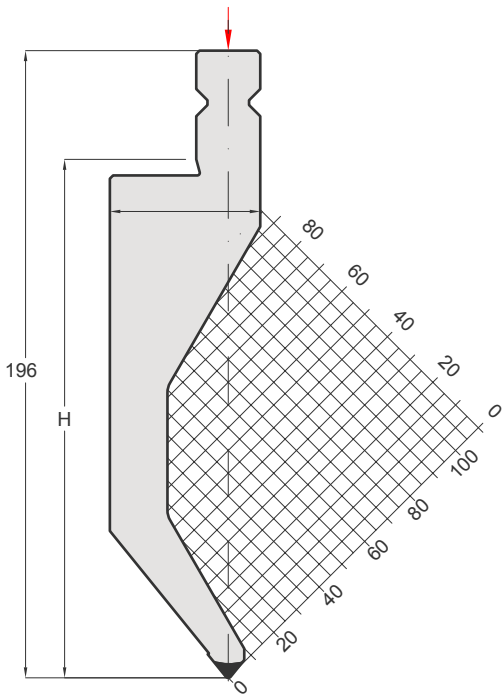


CODE	α	R	H	T/Mt	Mt
16.200	78°	1.00	159.00	40	

78°

SPINE / SAFETY PIN		
CODE	L=(mm)	KG
16.200S	510	19

PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.200FX	550F	20,6



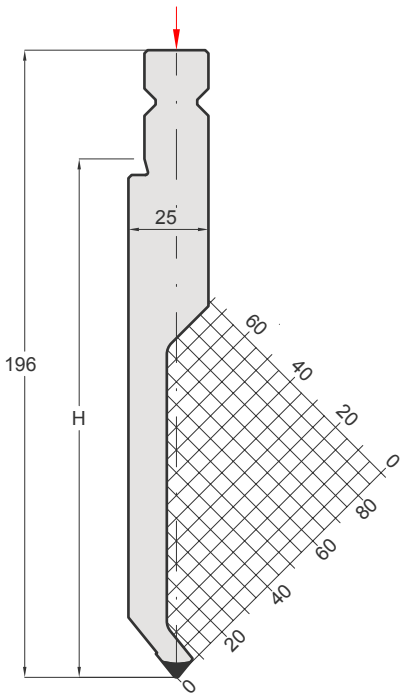
LENGTH	510
SECTION	550

CODE	α	R	H	T/Mt	Mt
16.201	78°	1.00	159.00	40	

78°

SPINE / SAFETY PIN		
CODE	L=(mm)	KG
16.201S	510	15,1

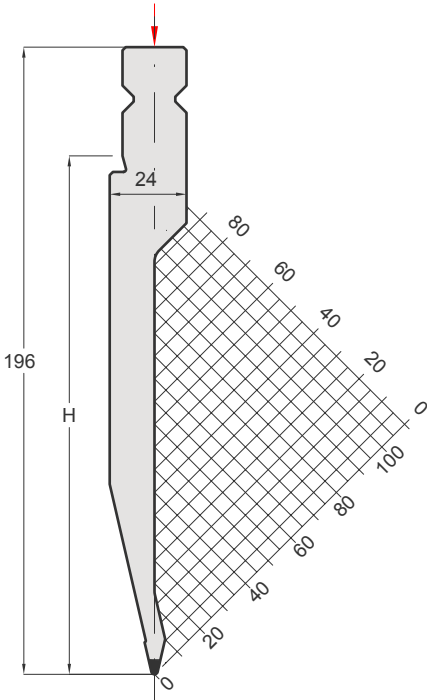
PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.201FX	550F	16,3



LENGTH	510
SECTION	550

CODE	α	R	H	T/Mt	Mt
16.202	26°	1.00	159.00	40	

26°

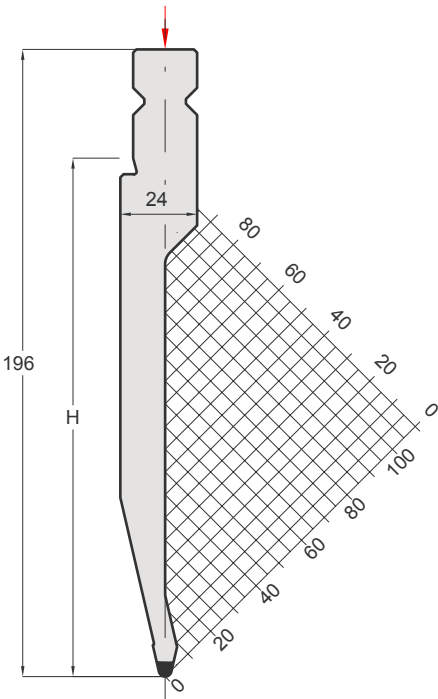


PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.202SX	510	11,5
16.202FX	550F	12,4

LENGTH 510
SECTION 550

CODE	α	R	H	T/Mt	Mt
16.203	26°	2.00	159.00	60	

26°

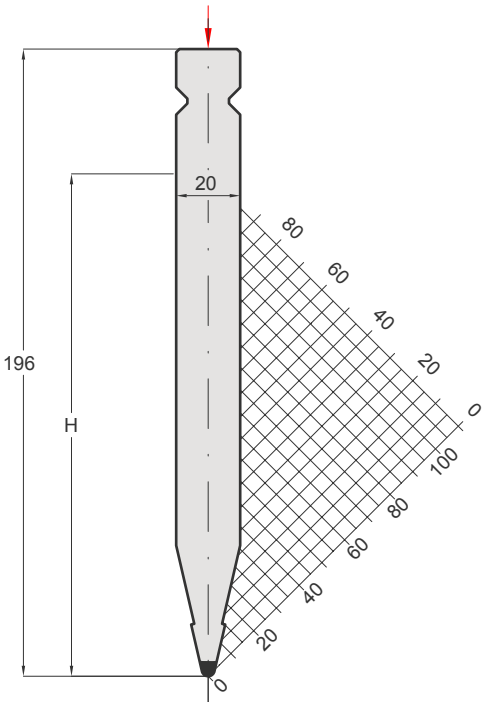


PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.203SX	510	11,6
16.203FX	550F	12,5

LENGTH 510
SECTION 550

26°

CODE	α	R	H	T/Mt	Mt
16.204	26°	2.00	159.00	80	



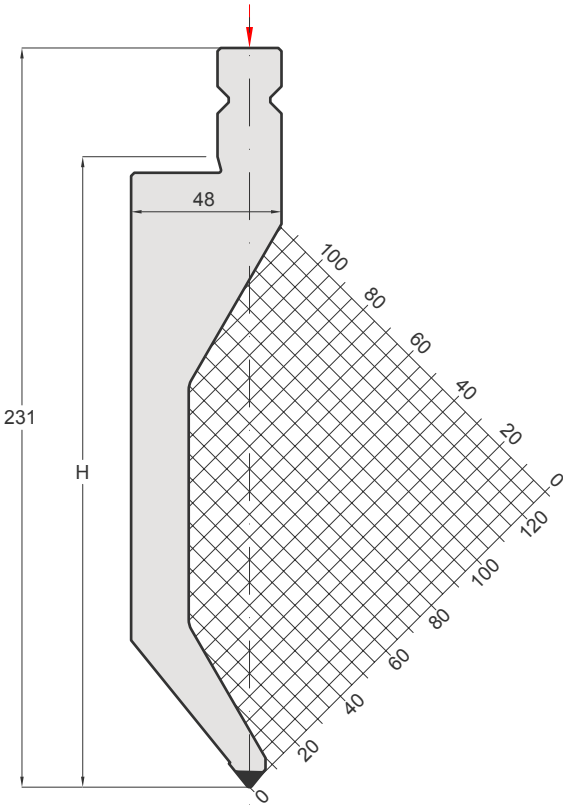
SPINE / SAFETY PIN		
CODE	L=(mm)	KG
16.204S	510	14,1

PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.204FX	550F	15,2

LENGTH 510
SECTION 550

78°

CODE	α	R	H	T/Mt	Mt
16.205	78°	1.00	194.00	40	



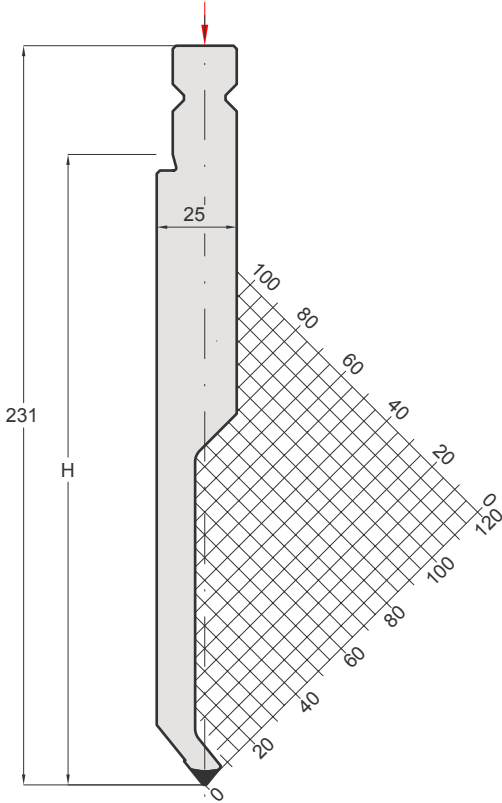
SPINE / SAFETY PIN		
CODE	L=(mm)	KG
16.205S	510	22,4

PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.205FX	550F	24,2

LENGTH 510
SECTION 550

CODE	α	R	H	T/Mt	Mt
16.206	78°	1.00	194.00	40	

78°



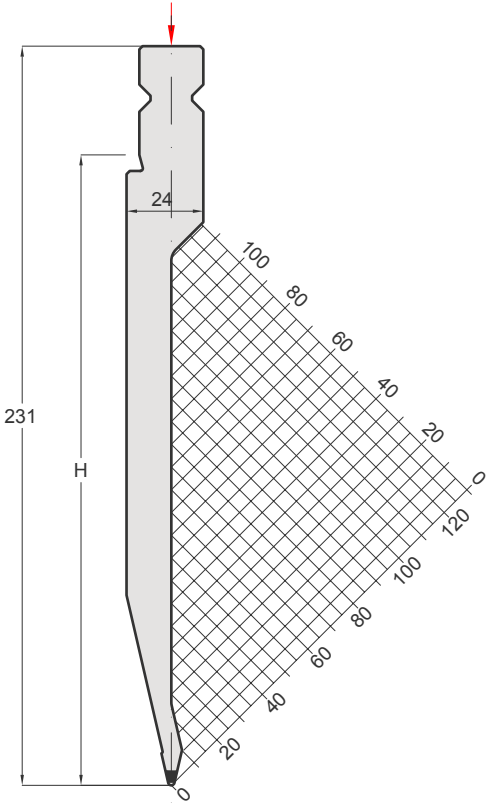
SPINE / SAFETY PIN		
CODE	L=(mm)	KG
16.206S	510	18,6

PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.206FX	550F	20

LENGTH 510
SECTION 550

CODE	α	R	H	T/Mt	Mt
16.207	26°	1.00	194.00	40	

26°



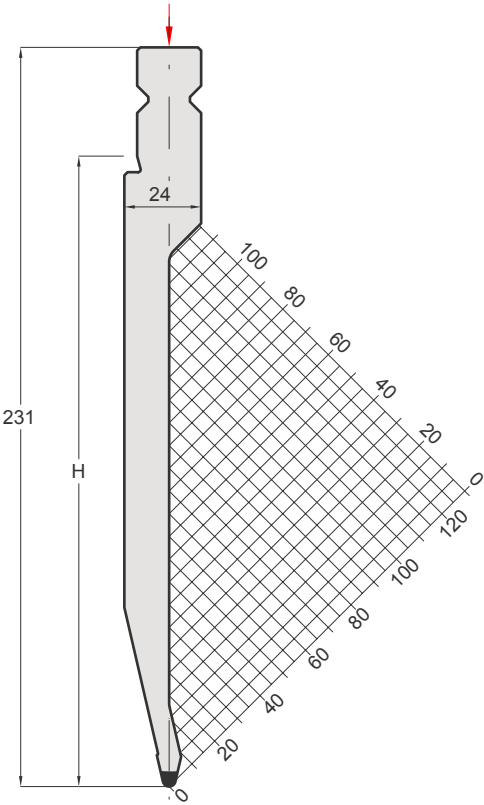
SPINE / SAFETY PIN		
CODE	L=(mm)	KG
16.207S	510	13,5

PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.207FX	550F	14,6

LENGTH 510
SECTION 550

CODE	α	R	H	T/Mt	Mt
16.208	26°	2.00	194.00	60	

26°



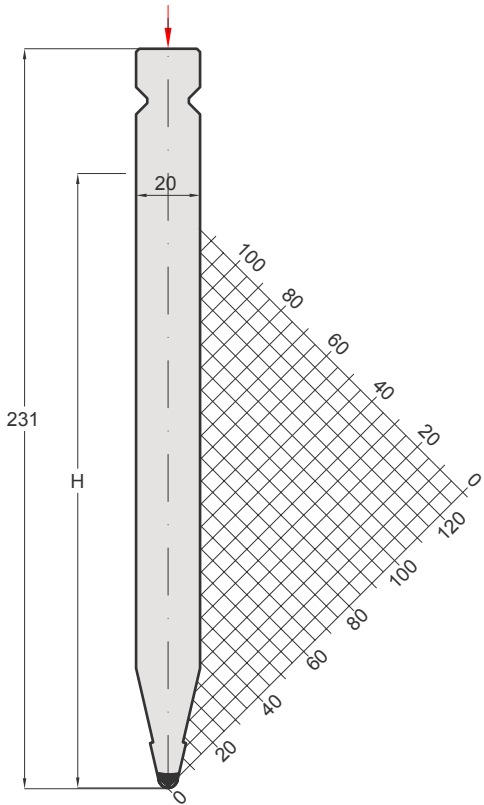
SPINE / SAFETY PIN		
CODE	L=(mm)	KG
16.208S	510	13,5

PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.208FX	550F	14,6

LENGTH 510
SECTION 550

CODE	α	R	H	T/Mt	Mt
16.209	26°	3.00	194.00	120	

26°



SPINE / SAFETY PIN		
CODE	L=(mm)	KG
16.209S	510	17,1

PULSANTE / SAFETY CLICK		
CODE	L=(mm)	KG
16.209FX	550F	18,5

LENGTH 510
SECTION 550

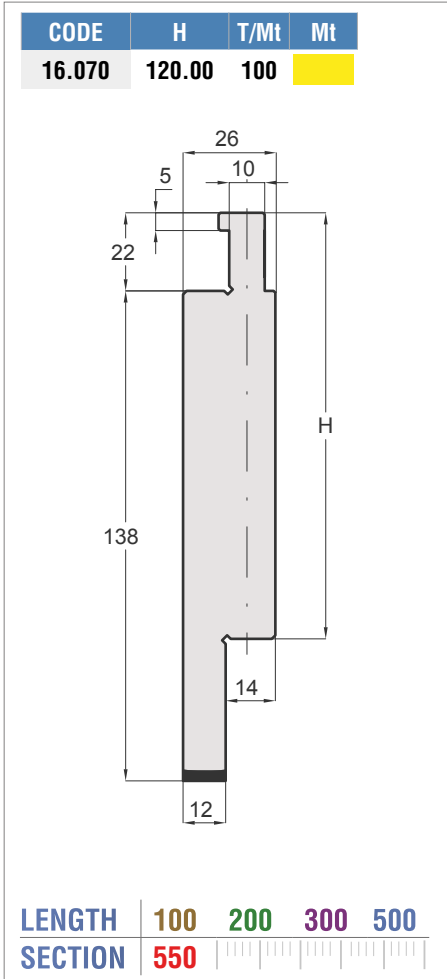
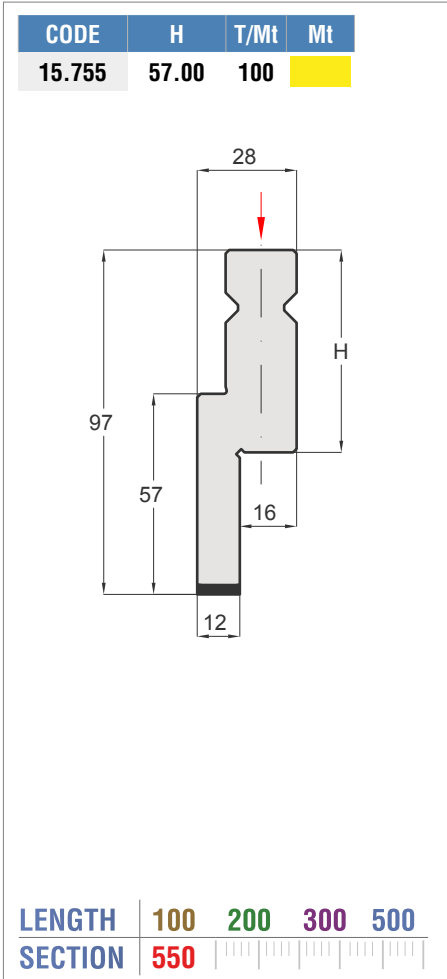
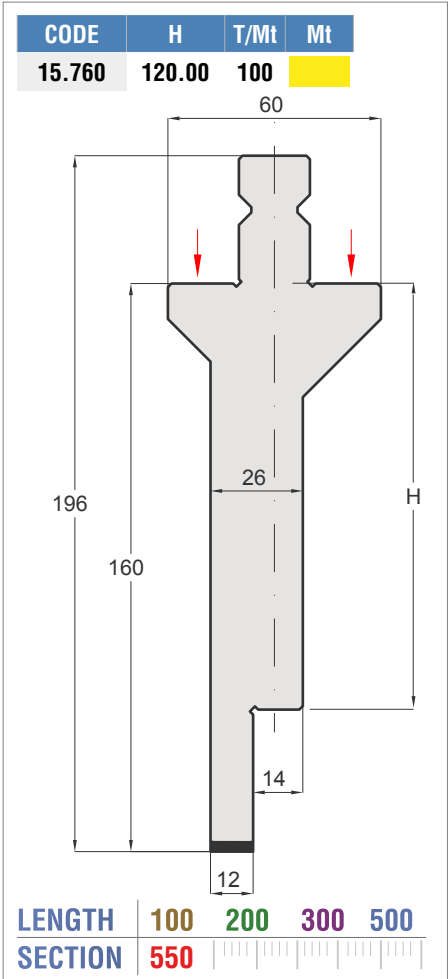
LAME E SUPPORTO PER LAME BLADES AND HOLDERS BLADES



BLACK LINE

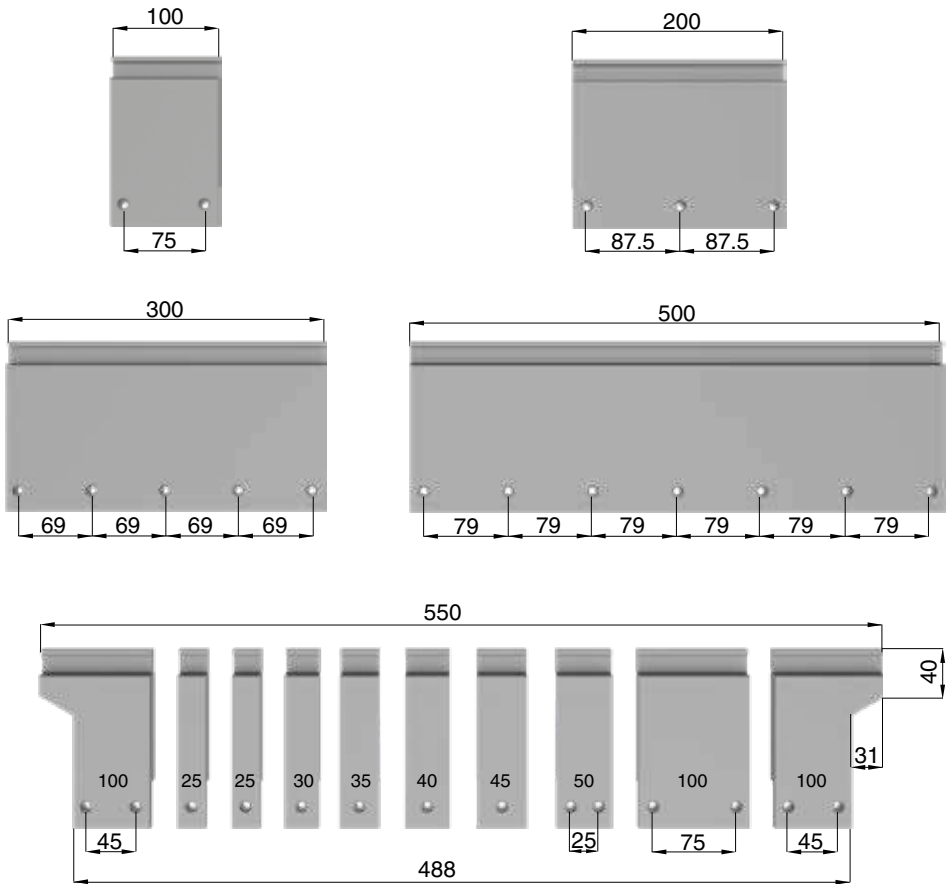
LVD STYLE

LAME E SUPPORTO PER LAME - HOLDERS AND BLADES
SOPORTES Y CUCHILLAS - LÂMINAS E SUPORTES
SUPPORTS ET LAMES - KLINGENHALTER UND KLINGEN



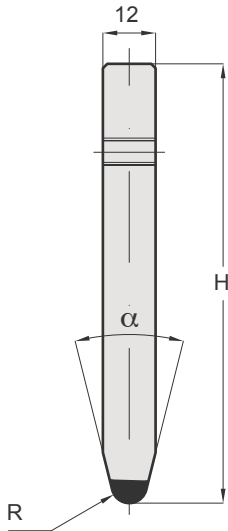
LUNGHEZZA STANDARD - STANDARD LENGTH - LONGITUD STANDARD - COMPRIMENTO PADRÃO - LONGUEUR STANDARD - STANDARD - LÄNGE

LUNGHEZZA FRAZIONATO - SECTIONED LENGTH - LONGITUD FRACCIONADO - COMPRIMENTO FRACIONADO - LONGUEUR FRACTIONNÉE - SEKTIONIERT LÄNGE



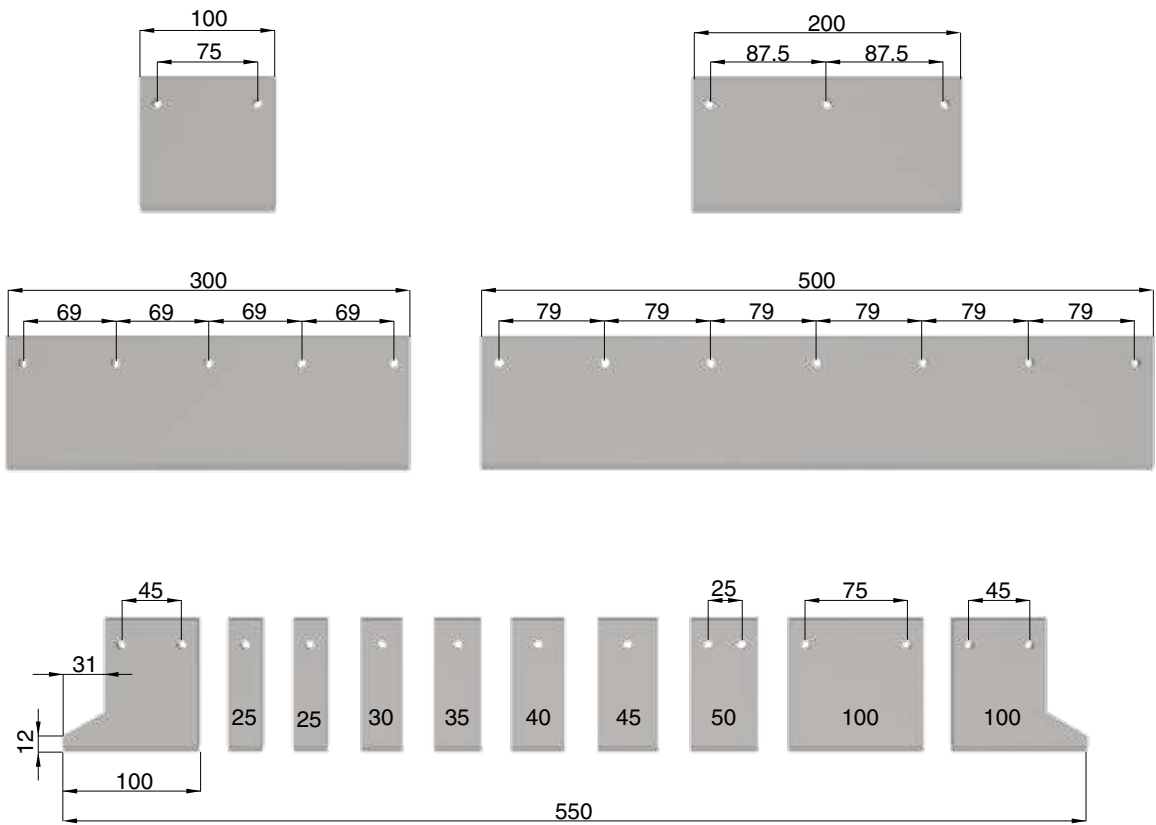
CODE	α	R	H	T/Mt	Mt
15.776	86°	1.00	100.00	100	
15.774	84°	1.00	100.00	100	
15.769	28°	6.00	100.00	100	
15.768	28°	5.00	100.00	100	
15.767	28°	4.00	100.00	100	
15.766	28°	3.00	100.00	100	
15.765	28°	2.00	100.00	100	
15.763	28°	1.00	100.00	100	
15.761	28°	0.50	100.00	100	

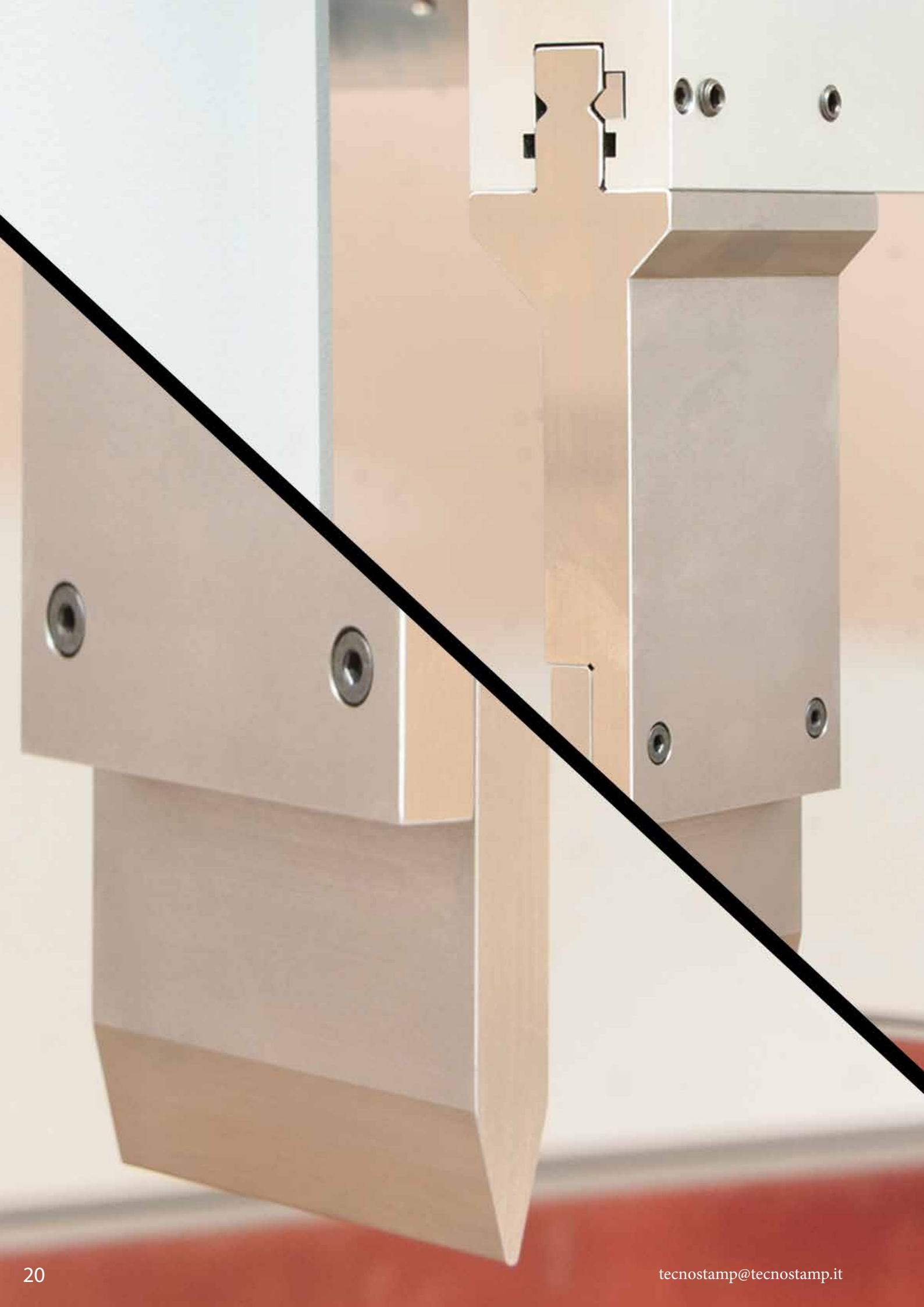
86°
84°
28°



LENGTH	100	200	300	500
SECTION	550			

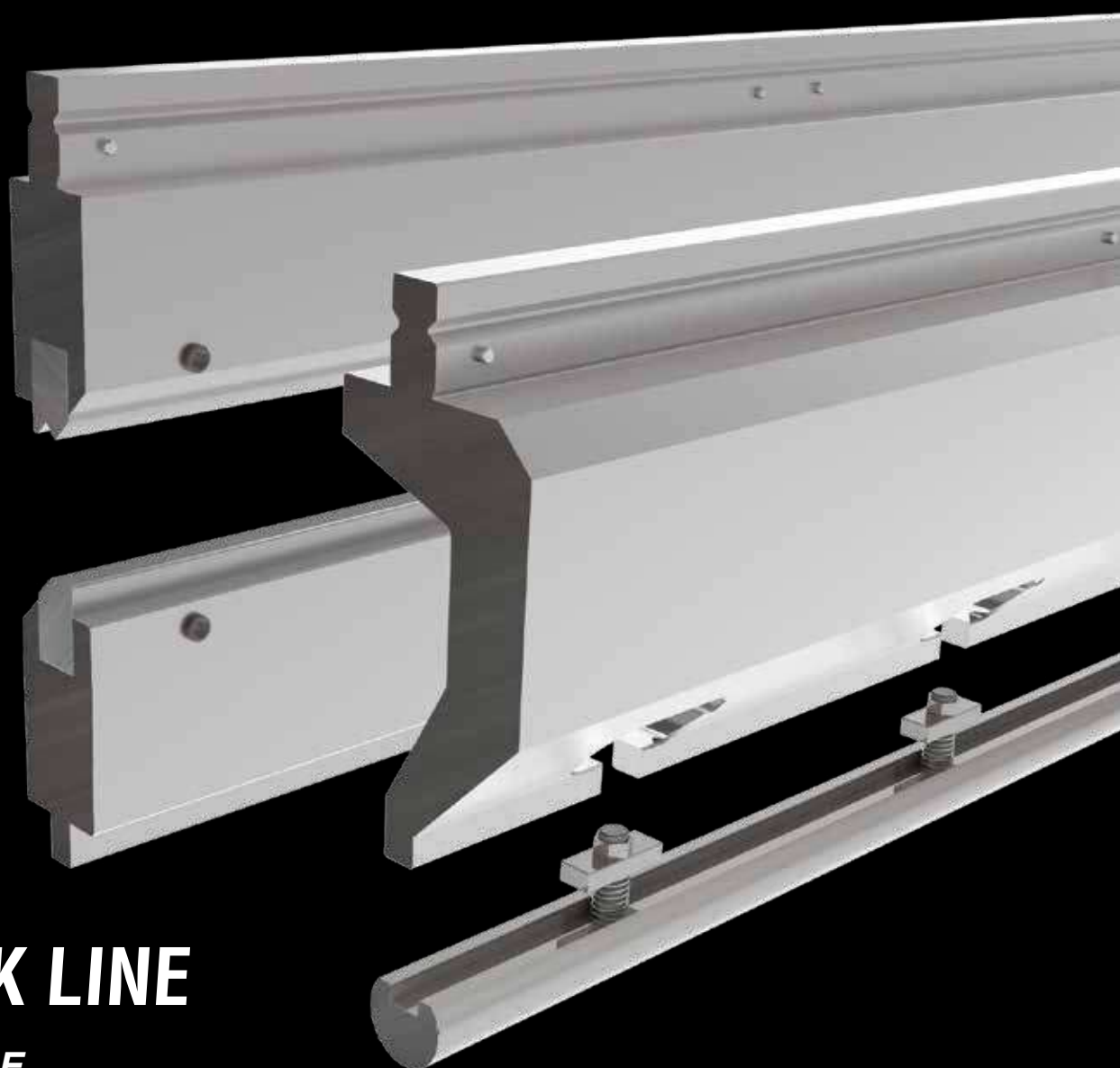
LUNGHEZZA STANDARD - STANDARD LENGTH - LONGITUD STANDARD - COMPRIMENTO PADRÃO - LONGUEUR STANDARD - STANDARD - LÄNGE
LUNGHEZZA FRAZIONATO - SECTIONED LENGTH - LONGITUD FRACCIONADO – COMPRIMENTO FRACIONADO - LONGUEUR FRACTIONNÉE - SEKTIONIERT LÄNGE





SUPPORTI E INSERTI A ZETA Z TOOL HOLDERS AND Z TOOL INSERTS

SUPPORTI E INSERTI RAGGIATI HOLDERS AND RADIUS INSERTS



BLACK LINE

LVD STYLE

SUPPORTI PER INSERTI A Z - HOLDER FOR Z INSERT

CONTENEDORES PARA Z - SUORTES PARA INSERTOS EM Z

SUPPORTS POUR OUTILS EN Z - HALTERPAAR FÜR Z-WERKZEUGEINSÄTZE

INSERTI A Z E INSERTI RAGGIATI - RADIUS AND Z INSERTS

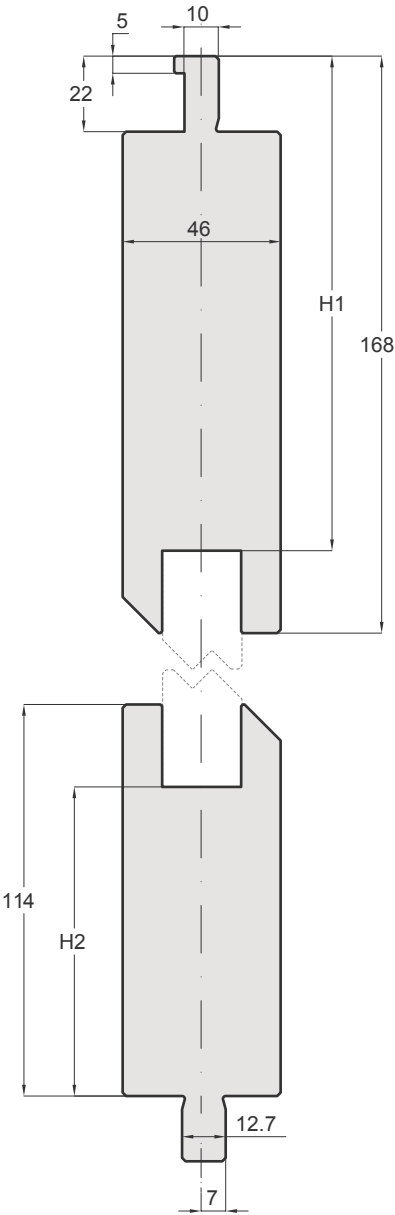
INSERTOS PARA Z E INSERTOS DE RADIO - INSERTOS DE RAIOS E EM Z

OUTILS EN Z ET INSERTS RAYON - Z-WERKZEUGEINSÄTZE UND RADIENLINEALE

SUPPORTI PER INSERTI A (Z) - Z-OFFSET TOOL HOLDERS

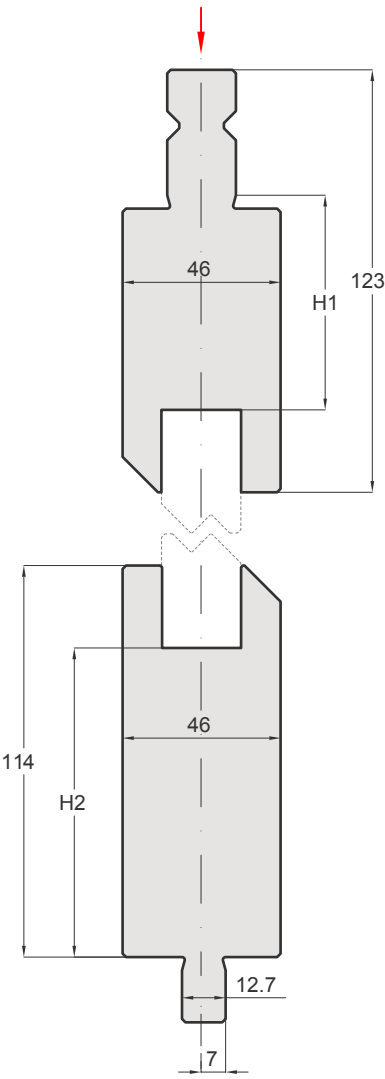
SUPPORTI PER INSERTI A Z - HOLDER FOR Z INSERT - CONTENEDORES PARA INSERTOS PARA Z
SUPPORTES PARA INSERTOS EM Z - SUPPORTS POUR OUTILS EN Z - HALTERPAAR FÜR Z-WERKZEUGEINSÄTZE

CODE	H1	H2	T/Mt	Mt
16.050	144	90	100	



LENGTH 415 835

CODE	H1	H2	T/Mt	Mt
16.060	62.00	90.00	100	



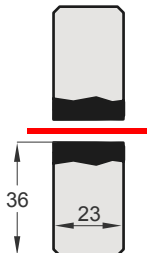
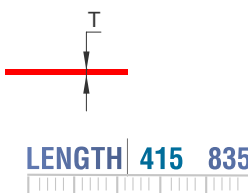
LENGTH 415 835

		LEGENDA	LEGEND	LEYENDA	LEGENDA	LÉGENDE	LEGENDE
Z	=	SALTO A Z	Z OFFSET	SALTO DE Z	DEGRAU DO Z	TAILLE DU Z	Z-GRÖSSE
α	=	ANGOLO	ANGLE	ÁNGULO	ÂNGULO	ANGLE	WINKEL
T	=	SPESSORE MAX	MAX THICKNESS	ESPESOR MÁXIMO	ESPESSURA MÁXIMA	EPAISSEUR MAX	MAX. BLECHSTÄRKE
T/mt	=	CARICO MAX	MAX LOAD	TONELAJE MÁXIMO	TONELAGEM MÁXIMA	TONNAGE MAX	MAX. BELASTBARKEIT
Mt	=	MATERIALE	MATERIAL	MATERIAL	MATERIAL	MATÉRIEL	MATERIAL

INSERTI A (Z) - Z TOOL INSERTS

INSERTI A Z - JOGGLE (Z) INSERTS - INSERTOS PARA Z
INSERTOS EM Z - OUTILS EN Z - Z-WERKZEUGEINSÄTZE

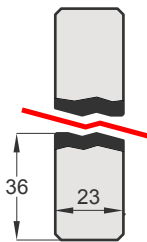
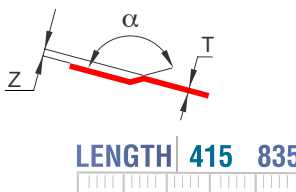
CODE	Z	α	T	T/Mt	Mt
40.500				100	

LENGTH 415 835

CODE	Z	α	T	T/Mt	Mt
40.510	1.00	160°	1 mm	100	
40.515	1.50	160°	1,2 mm	100	
40.520	2.00	150°	1,5 mm	100	
40.525	2.50	140°	1,5 mm	100	

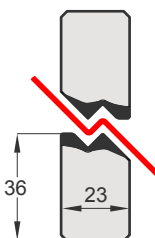
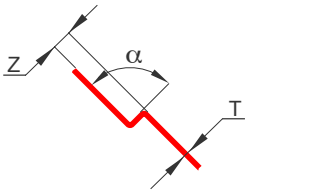
160°
150°
140°

LENGTH 415 835

CODE	Z	α	T	T/Mt	Mt
40.511	1.00	90°	0,5 mm	100	
40.516	1.50	90°	0,5 mm	100	
40.521	2.00	90°	0,5 mm	100	
40.526	2.50	90°	0,8 mm	100	
40.530	3.00	90°	1 mm	100	
40.535	3.50	90°	1 mm	100	
40.540	4.00	90°	1,2 mm	100	
40.545	4.50	90°	1,2 mm	100	
40.550	5.00	90°	1,5 mm	100	
40.555	5.50	90°	1,5 mm	100	
40.560	6.00	90°	1,5 mm	100	
40.565	6.50	90°	1,5 mm	100	
40.570	7.00	90°	1,5 mm	100	
40.575	7.50	90°	1,6 mm	100	
40.580	8.00	90°	1,6 mm	100	

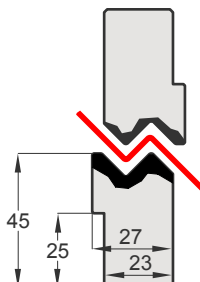
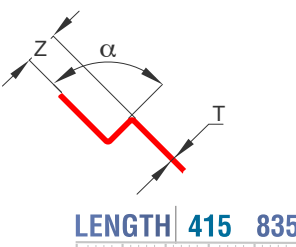
90°

LENGTH 415 835

CODE	Z	α	T	T/Mt	Mt
40.585	8.50	90°	2 mm	100	
40.590	9.00	90°	2 mm	100	
40.610	10.00	90°	2 mm	100	
40.611	11.00	90°	2 mm	100	
40.612	12.00	90°	2 mm	100	

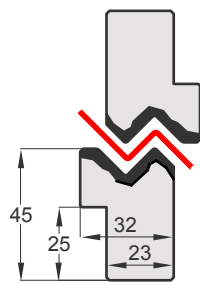
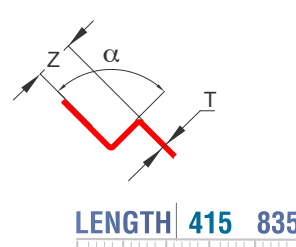
90°

LENGTH 415 835

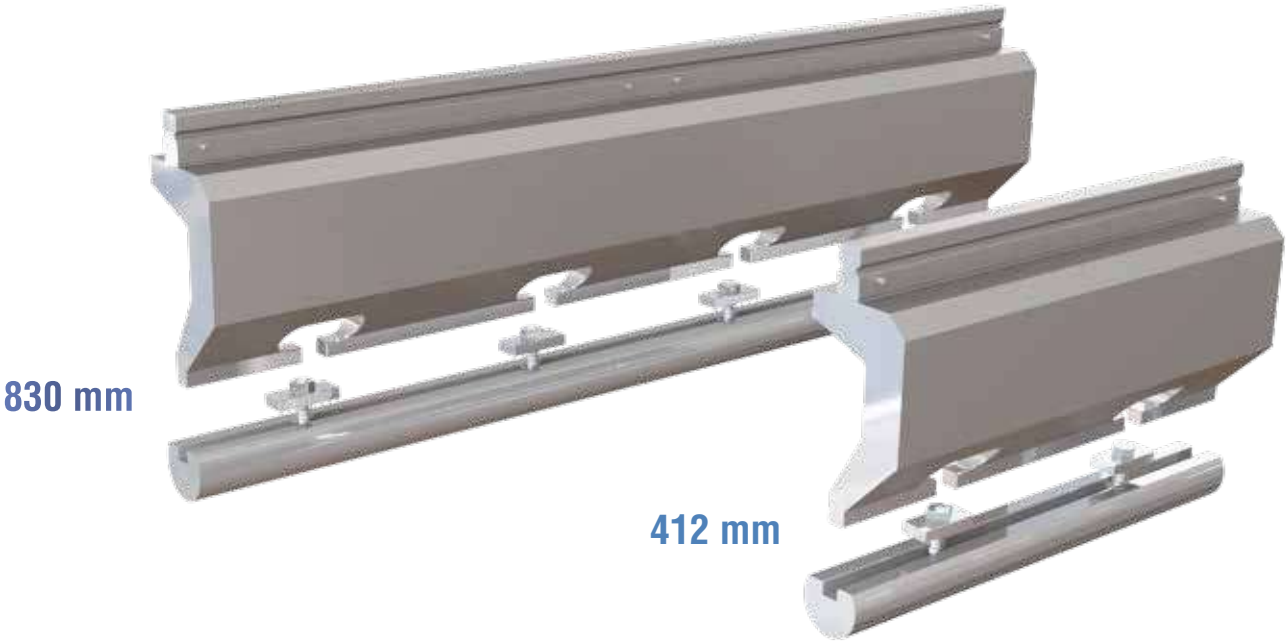
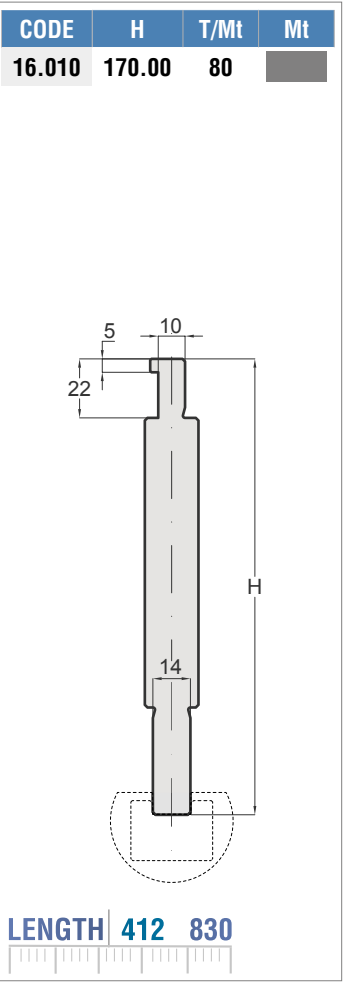
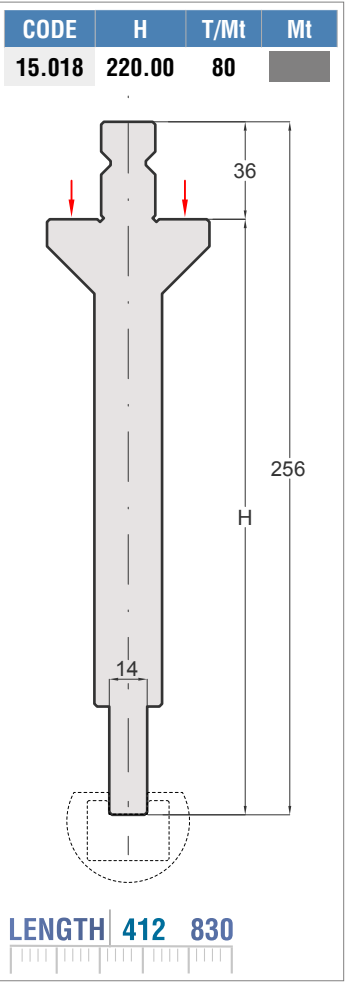
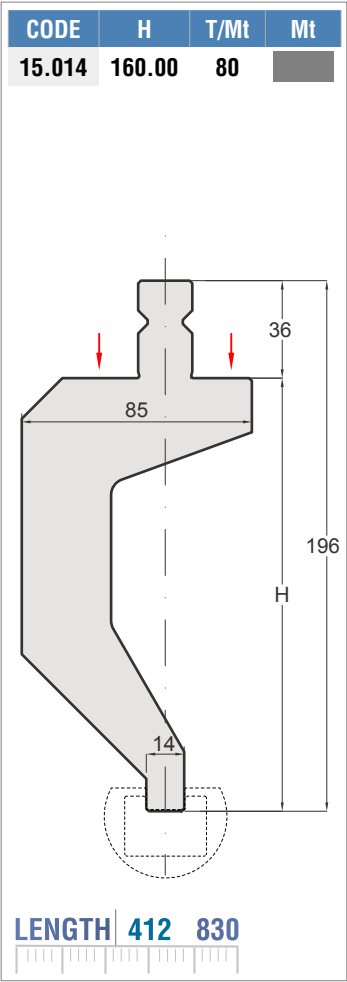
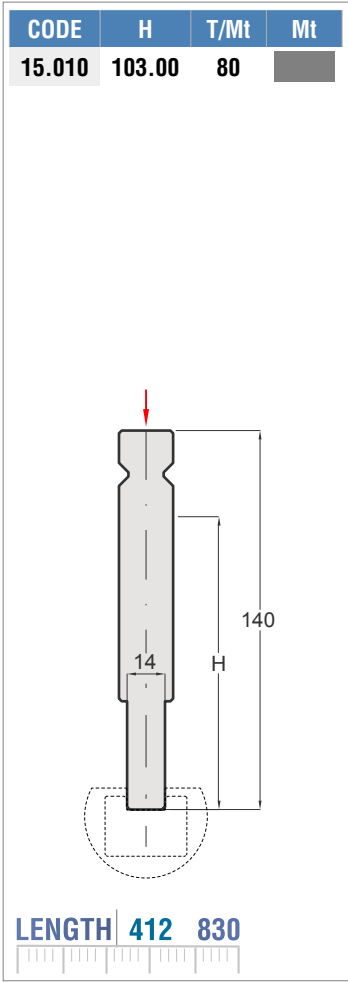
CODE	Z	α	T	T/Mt	Mt
40.613	13.00	90°	2,5 mm	100	
40.614	14.00	90°	2,5 mm	100	
40.615	15.00	90°	3 mm	100	

90°

LENGTH 415 835

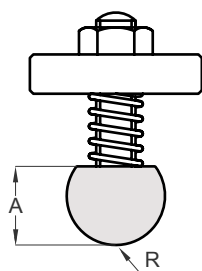
SUPPORTI PER INSERTI RAGGIATI - RADIUS INSERT HOLDERS



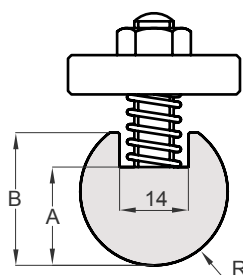
INSERTI RAGGIATI - RADIUS INSERTS

INSERTI RAGGIATI/PIANI - RADIUS/PLAN INSERTS - INSERTOS DE RADIO/PLANO - INSERTOS DE RAIQ/PLANO - INSERTS A RAYONNER/ECRASER - WERKZEUGTRÄGER FÜR RADIIENLINEALE/ZUDRÜCKEINSÄTZE

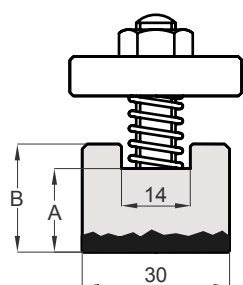
ACCIAIO - STEEL C45



LENGTH 415 835



LENGTH 415 835



LENGTH 415 835

CODE

Mt

R

A

B

10.300

10.301

10.302

10.303

10.304

10.305

10.306

10.307

7.00 11.50

7.50 11.50

8.00 13.00

9.00 16.00

10.00 16.00

11.00 16.00

11.50 19.00

12.00 20.00

10.308

10.309

10.310

10.311

10.312

10.313

10.314

10.315

10.316

10.317

10.318

10.319

10.320

10.321

10.322

10.323

10.324

12.50 16.00 21.00

13.00 17.00 23.00

14.00 19.00 25.00

15.00 20.00 27.00

16.00 21.00 28.00

17.00 21.50 31.50

17.50 22.00 32.00

19.00 25.00 32.00

20.00 24.00 34.00

22.50 25.00 33.00

25.00 29.00 39.00

27.50 34.00 44.00

30.00 34.00 44.00

35.00 45.00 55.00

40.00 45.00 55.00

45.00 50.00 60.00

50.00 54.00 64.00

10.325

17.00 22.00

CODE

Mt

11.300

11.301

11.302

11.303

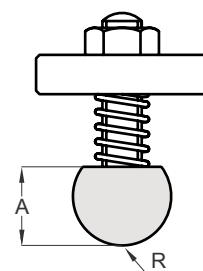
11.304

11.305

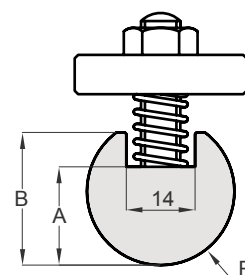
11.306

11.307

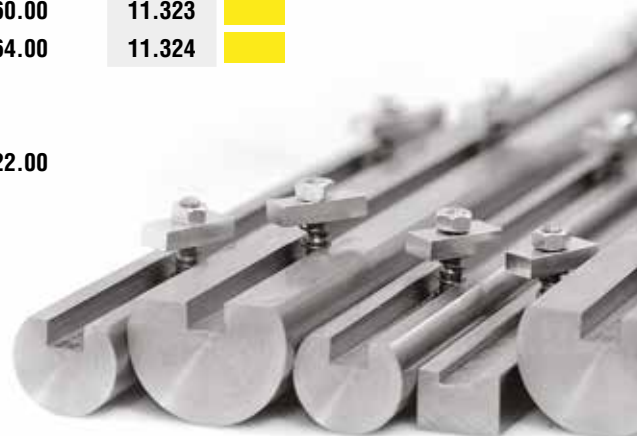
STEEL 42CrMo4 (UNI EN 10083-93)
NITRIDED 60-62 HRC



LENGTH 415 835



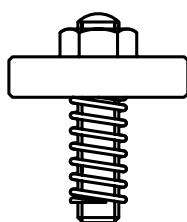
LENGTH 415 835

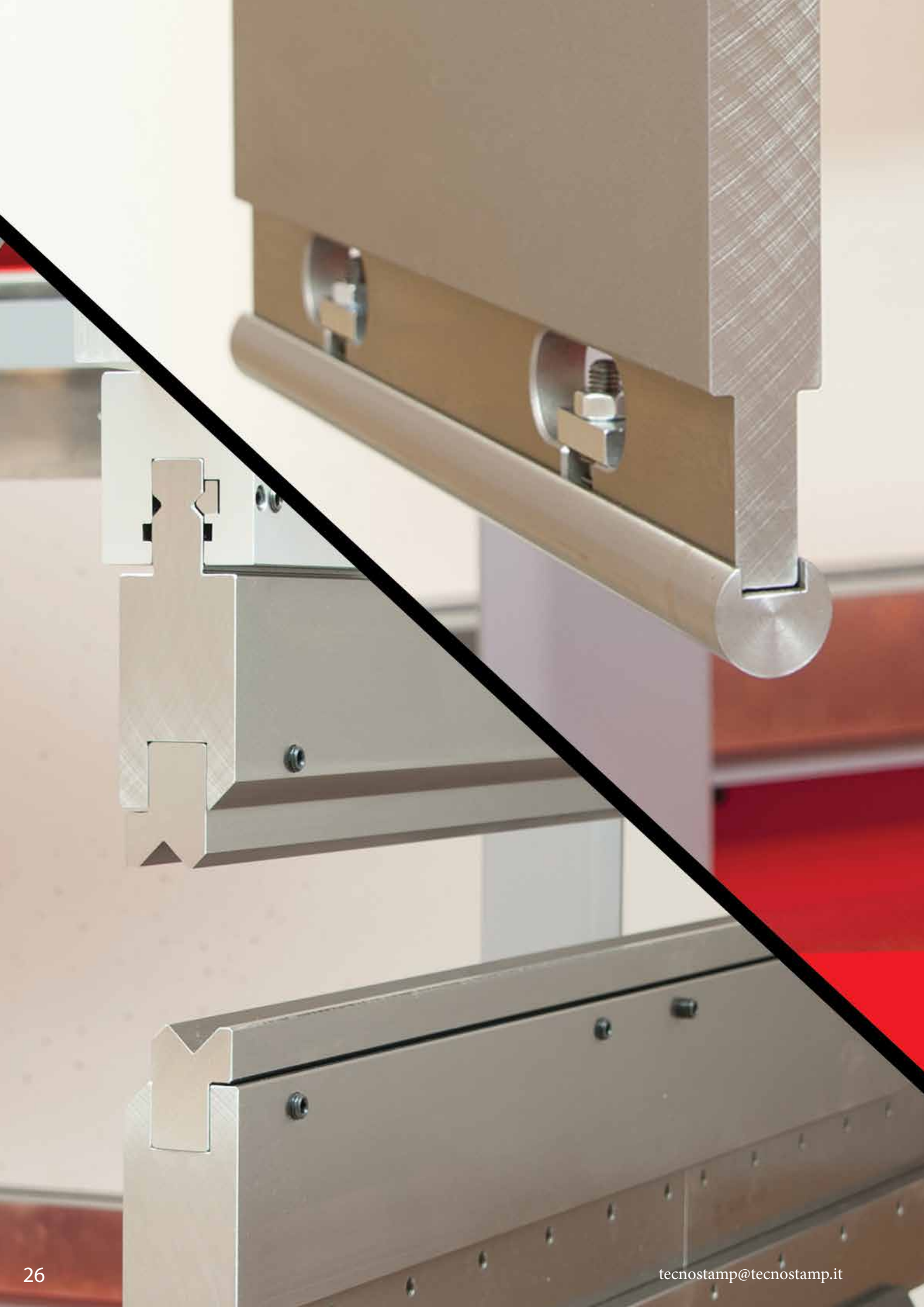


PARTI DI RICAMBIO - SPARE PARTS - RECAMBIOS - PEÇAS DE SUBSTITUIÇÃO - PIÈCES DE RECHANGE - ERSATZTEILE

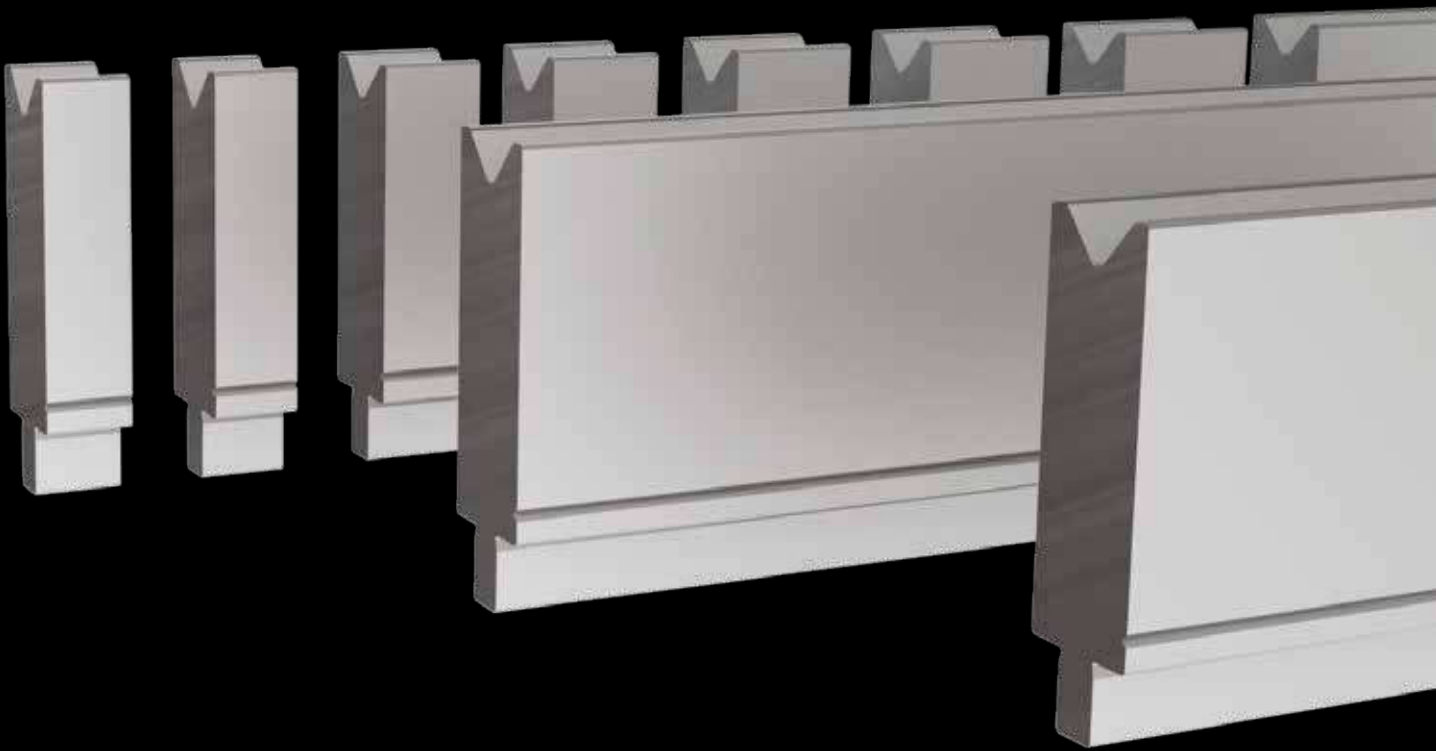
CODE

40.002





MATRICI DIES



BLACK LINE

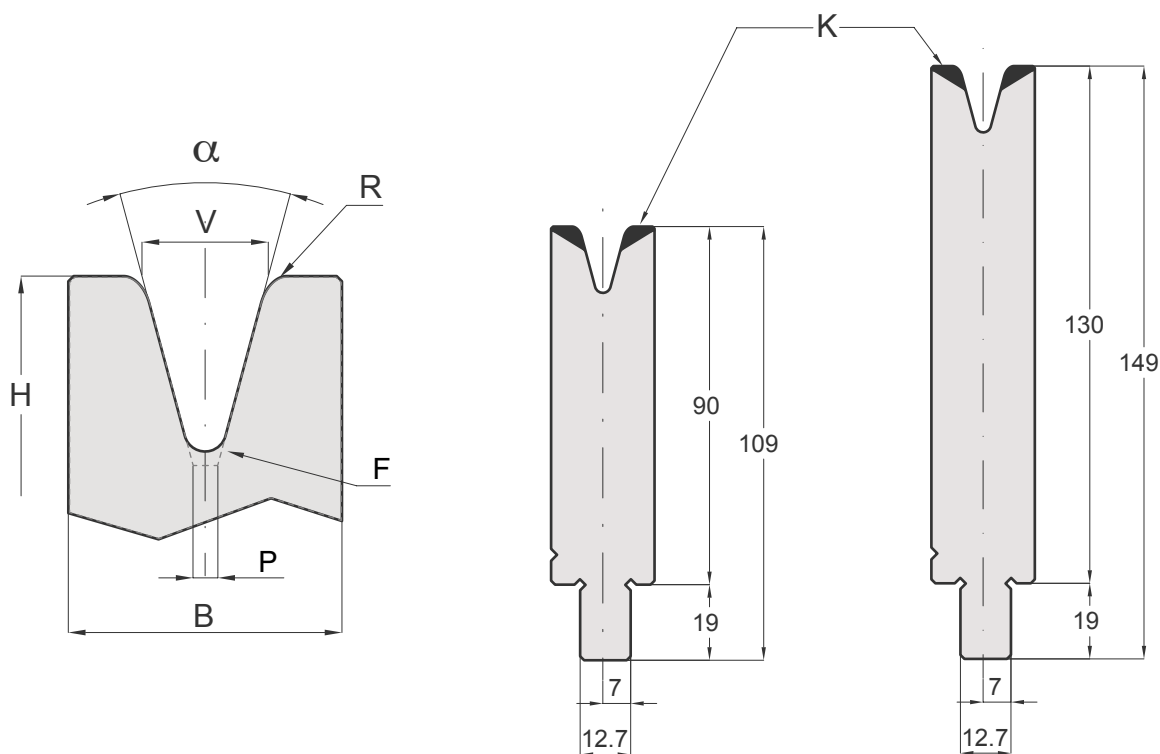
LVD STYLE

MATRICI - DIES - MATRICES

MATRIZES - MATRICES - MATRIZEN

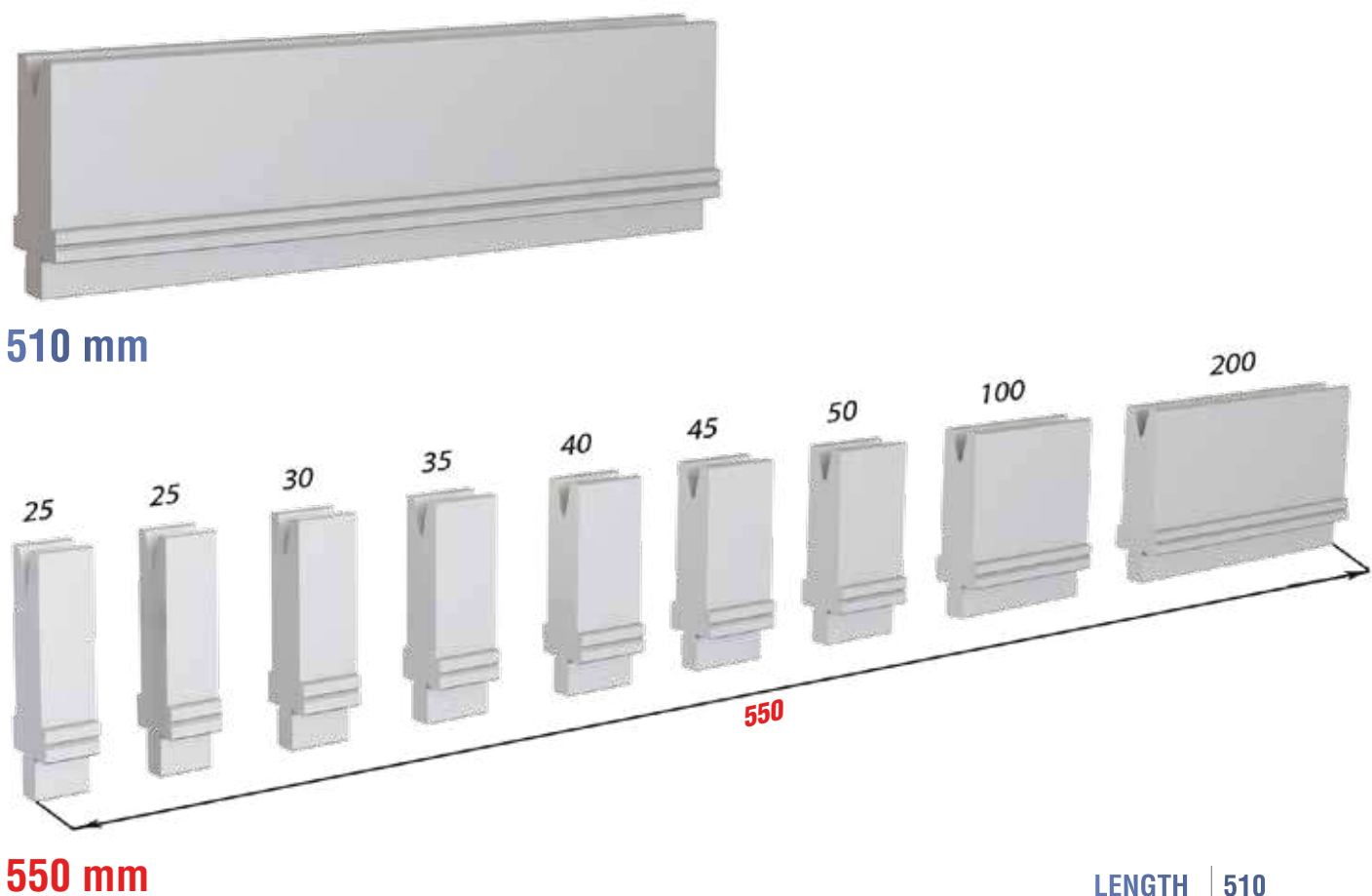
MATRICI - DIES

LE MATRICI STANDARD SONO DISPONIBILI A MAGAZZINO NELLE LUNGHEZZE DI: 510 mm E FRAZIONATI (550 mm)
THE DIES ARE AVAILABLE IN THE FOLLOWING STANDARD LENGTHS: 510 mm AND SECTIONED (550 mm)
LAS MATRICES ESTÁN DISPONIBLES EN STOCK Y EN LONGITUDES DE: 510 mm Y FRACCIONADOS (550 mm)
AS MATRIZES ESTÃO DISPONÍVEIS EM STOCK/ESTOQUE NOS COMPRIMENTOS: 510 mm E FRACIONADOS (550 mm)
LES MATRICES STANDARDS SONT DISPONIBLES EN LONGUEURS: 510 mm ET FRACTIONNÉES (550 mm)
DIE AB LAGER LIEFERBAREN STANDARD-MATRIZEN SIND IN FOLGENDEN LÄNGEN ERHÄLTICH: 510 mm UND SEKTIONIERT LÄNGE (550 mm)



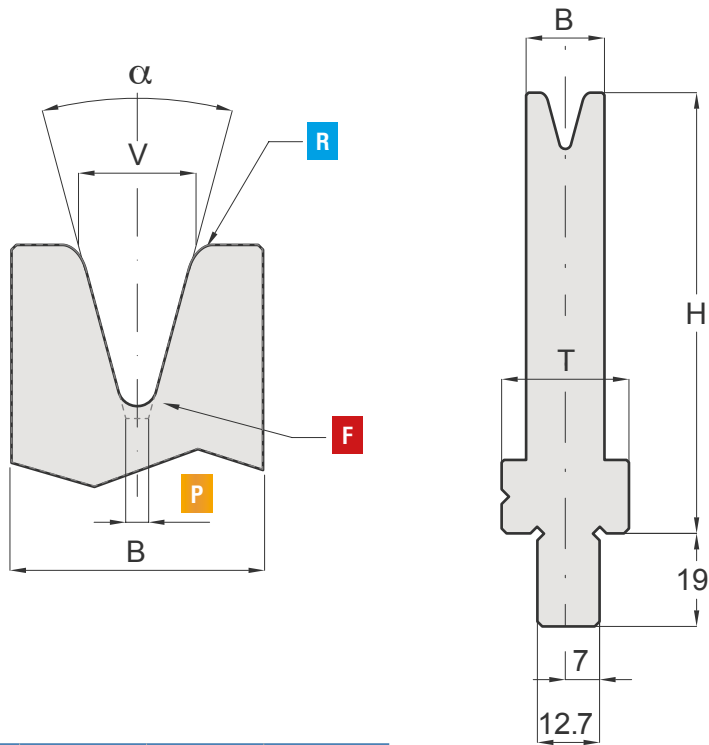
	LEGENDA	LEGEND	LEYENDA	LEGENDA	LÉGENDE	LEGENDE	
H	=	ALTEZZA	HEIGHT	ALTURA	ALTURA	HAUTEUR	STEMPELHÖHE
α	=	ANGOLO	ANGLE	ÂNGULO	ÂNGULO	ANGLE	WINKEL
R	=	RAGGIO	RADIUS	RADIO	RAIO	RAYON	RADIUS
K	=	PARTI USURABILI	WEAR PARTS	ZONA DE DESGASTE	ZONA DE DESGASTE	ZONES D'USURE	VERSCHLEISSTEILE
B	=	BASE	WIDTH	BASE	BASE	BASE	BREITE
V	=	AMPIEZZA CAVA	DIE OPENING	APERTURA DE V	ABERTURA DO V	LARGEUR VE	ÖFFNUNGSWEITE
F	=	FONDO MATRICE	BOTTOM DIES	FONDO MATRIZ	FUNDO DA MATRIZ	FOND MATRICE	MATRIZENGRUND
P	=	PIANO	FLAT	PLANO	PLANO	PLAN	FLÄCHE





LENGTH	510
SECTION	550



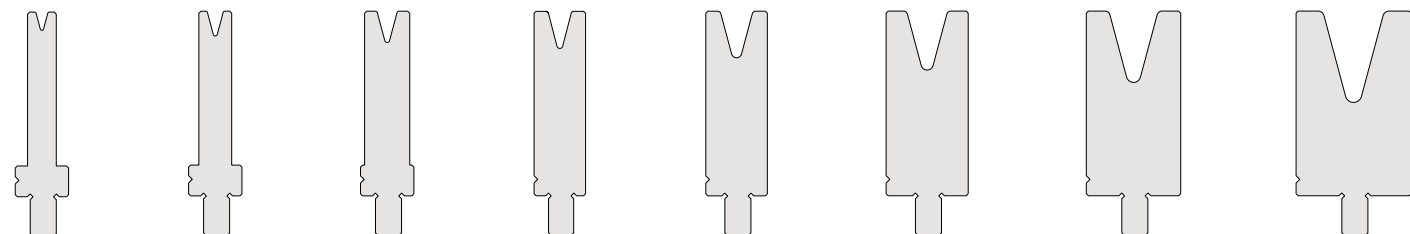


78°
30°

	LEGENDA	LEGEND	LEYENDA	LEGENDA	LÉGENDE	LEGENDE
F	= FONDO MATRICE	= BOTTOM DIE	= FONDO MATRIZ	= FUNDO DA MATRIZ	= FOND MATRICE	= MATRIZENGUND
R	= RAGGIO	= RADIUS	= RADIO	= RAIO	= RAYON	= RADIUS
P	= PIANO	= FLAT	= PLANO	= PLANO	= PLAN	= FLÄCHE

LENGTH	510
SECTION	550

CODE	α	V	B	T	R	H	F	T/mt	Mt		CODE	α	V	B	T	R	H	F	T/mt	Mt
26.200	30°	6	14	26	0.80	90	R1,0	25			26.253	30°	12	26	26	1.20	130	R2,0	46	
26.201	30°	8	16	26	0.80	90	R1,2	26			26.254	30°	16	30	30	1.60	130	R2,5	51	
26.202	30°	10	22	26	1.00	90	R1,5	36			26.255	30°	20	40	40	2.00	130	R3,0	68	
26.203	30°	12	26	26	1.20	90	R2,0	46			26.256	30°	24	46	46	2.40	130	R5,0	93	
26.204	30°	16	30	30	1.60	90	R2,5	51			26.257	30°	30	56	56	3.00	130	R5,0	110	
26.205	30°	20	40	40	2.00	90	R3,0	68			26.258	30°	40	75	75	4.00	130	R7,0	140	
26.206	30°	24	46	46	2.40	90	R5,0	93			26.259	30°	50	90	90	4.00	130	R10	170	
26.207	30°	30	56	56	3.00	90	R5,0	110			26.260	30°	60	95	95	5.00	130	R13	140	
26.208	30°	40	75	75	4.00	90	R7,0	140			26.262	78°	6	10	26	0.80	130	R0,8	28	
26.209	30°	50	90	90	4.00	90	R10	135			26.263	78°	8	12	26	0.80	130	R1,2	32	
26.211	78°	6	10	26	0.80	90	R0,8	28			26.264	78°	10	14	26	1.00	130	R1,5	36	
26.212	78°	8	12	26	0.80	90	R1,2	32			26.265	78°	12	18	26	1.20	130	R2,0	50	
26.213	78°	10	14	26	1.00	90	R1,5	36			26.266	78°	16	25	25	1.60	130	R2,5	70	
26.214	78°	12	18	26	1.20	90	R2,0	50			26.267	78°	20	30	30	2.00	130	R3,0	75	
26.215	78°	16	25	25	1.60	90	R2,5	70			26.268	78°	24	32	32	2.40	130	R4,0	91	
26.216	78°	20	30	30	2.00	90	R3,0	75			26.269	78°	30	40	40	3.00	130	R5,0	115	
26.217	78°	24	32	32	2.40	90	R4,0	91			26.270	78°	40	50	50	4.00	130	R8,0	135	
26.218	78°	30	40	40	3.00	90	R5,0	115			26.271	78°	50	65	65	4.00	130	R10	180	
26.219	78°	40	50	50	4.00	90	R8,0	135			26.272	78°	60	75	75	5.00	130	R12	200	
26.220	78°	50	65	65	4.00	90	R10	180			26.273	78°	80	95	95	6.00	130	R16	230	
26.221	78°	60	75	75	5.00	90	R12	200			26.274	78°	100	125	125	6.00	130	R20	250	
26.222	78°	80	95	95	6.00	90	R16	230			26.275	78°	120	140	140	6.00	130	R25	340	
26.223	78°	100	125	125	6.00	90	R20	250												
26.250	30°	6	14	26	0.80	130	R1,0	28												
26.251	30°	8	16	26	0.80	130	R1,2	26												
26.252	30°	10	22	26	1.00	130	R1,5	36												



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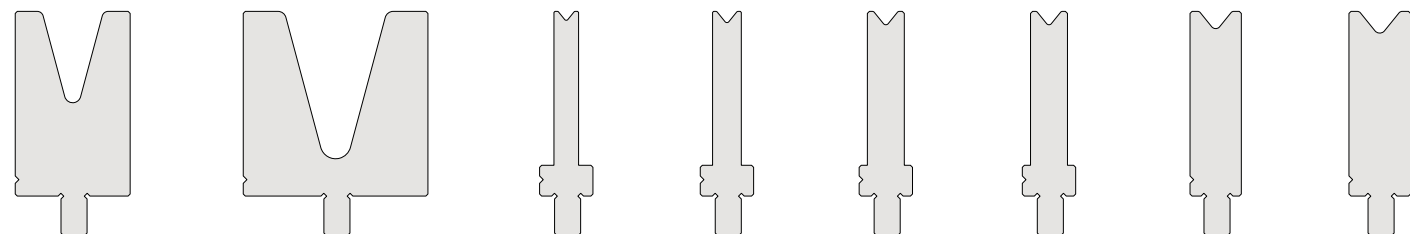
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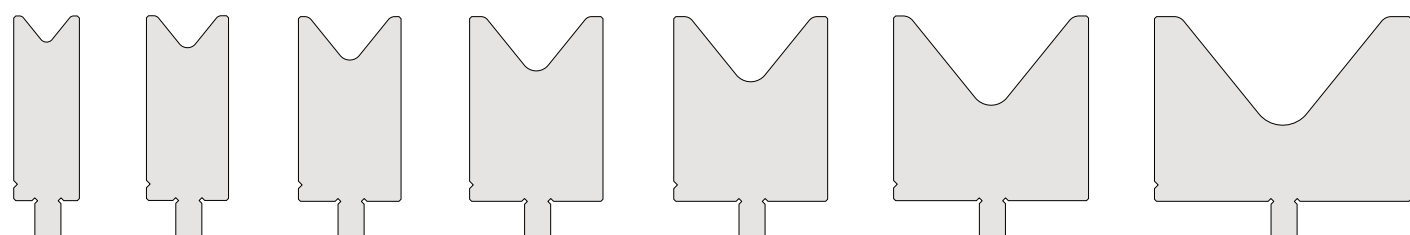
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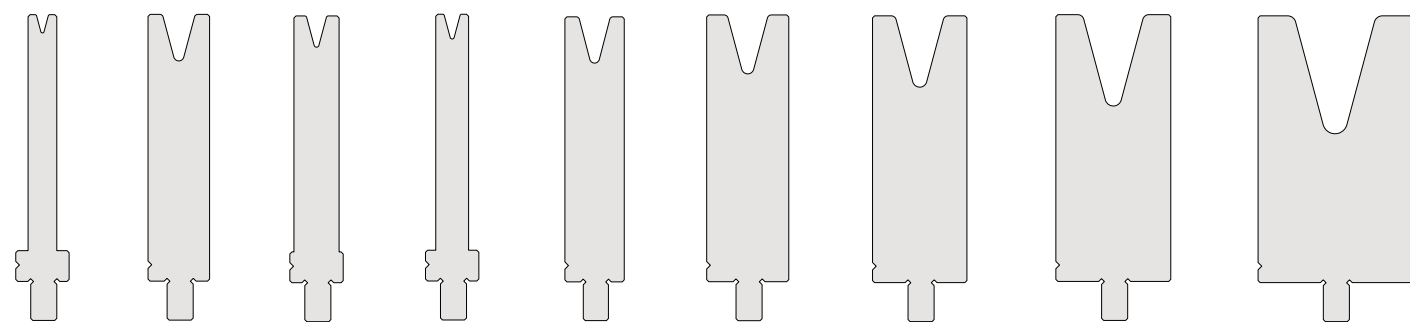
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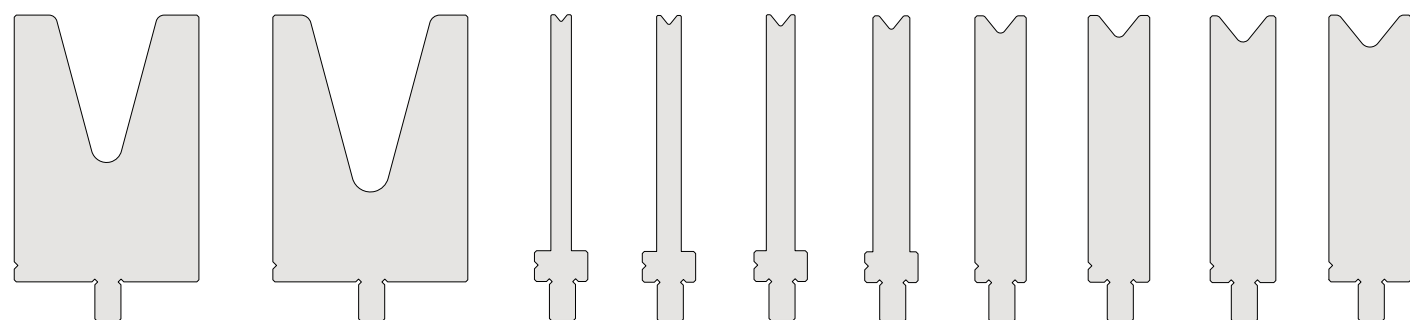
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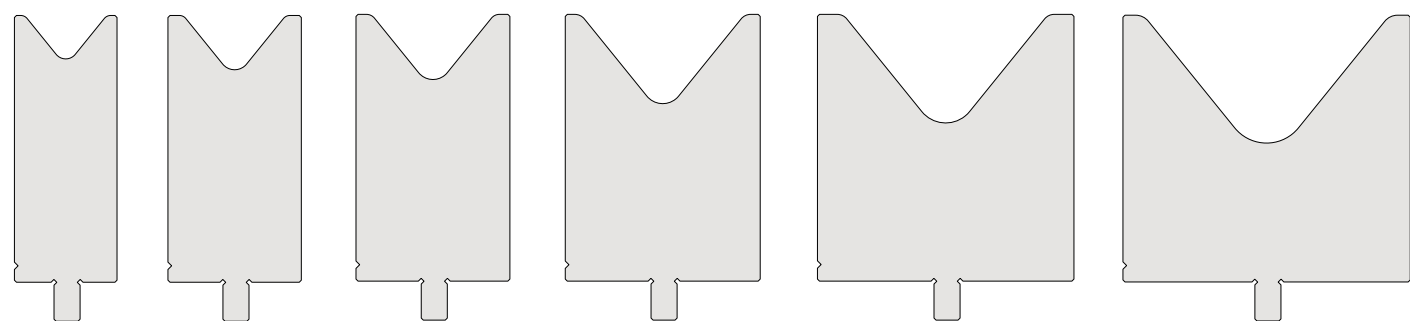
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15.010		24	26.251	30°	30			

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PROMECAM**



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TRUMPF



BLUE LINE

WILA



PLATINUM LINE

**BYSTRONIC
BEYELER**



ORANGE LINE

LVD



BLACK LINE

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AMERICAN
COLGAR
COLLY
HÄMMERLE
EHT
NEWTON
WEINBRENNER**



RAINBOW LINE

**NO
MARKING
TOOLS**



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**ADAPTERS
FOR ALL
PRESS
BRAKES**



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**SHEAR
BLADES**



YELLOW LINE

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FOR ALL
PRESS
BRAKES**



GREEN LINE

**WORKING
MODIFICATION
REFURBISHED
TOOLING**



SILVER LINE

**SPECIAL
TOOLING
FOR ALL PRESS
BRAKES**



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THE CATALOGS ARE AVAILABLE ON THE WEBSITE
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OS CATÁLOGOS ESTÃO DISPONÍVEIS NO SITE
LES CATALOGUES SONT DISPONIBLES SUR LE SITE WEB
DIE KATALOGE SIND AUF DER WEBSITE VERFÜGBAR



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