



Precision Meets Perfection,
Economical Solutions.



2024

Euro Style Press Brake Catalog

Visit us: www.ketecooling.com



“
Precision
Meets
Perfection,
Economical
Solutions.
”

About Us

Innovative Solutions for Fabrication Challenges

Founded in 1998, KETEC Precision Tooling is the **largest manufacturer of Punch Press and Press Brake tooling in China and Asia.**

With over 25 years of unrelenting efforts in product innovation and development, as well as manufacturing refinement - In 2010, our Punch Press and Press Brake tools were appointed by the government as the industrial standard in China. As the leader of CNC tooling for the sheet metal fabrication industry. Our products have always been well-known **high-quality, customer-centric, and cost-effective.**

Empowering Metal Fabricators with Top-notch Tooling Solutions

Staying competitive in the manufacturing industry means having better flexibility, quality and efficiency while maintaining a sustainable profit.

That's why many manufacturers choose us. Through our unwavering commitment to quality control, refined manufacturing processes, and consultative customer service, we partner with our customers to minimize costs, boost revenue, and sustain their competitive edge.



Milestones

2004

Obtained Certifications

KETEC®'s trademark was registered as an international trademark and obtained ISO certification - **ISO9000:2000**.



2008

Equipped with High Capacity

Experienced tremendous growth and built our current manufacturing facilities **encompassing a total of 13 acres** in Conghua, Guangzhou, China.



2010

Became National Standard

The National Standardization Committee of China **commissioned KETEC to draft the standard** for "Tooling for CNC Turret Punch Machine." In July of the same year, the Ministry of Industry and IT of China issued and implemented the standard **JB/T10928-2010** for "CNC Turret Punch Press Tooling."



2012

Largest in Asia

KETEC became the **largest exporter by volume** and manufacturer of CNC sheet metal tooling in Asia with an annual revenue of **\$45 Million USD**.



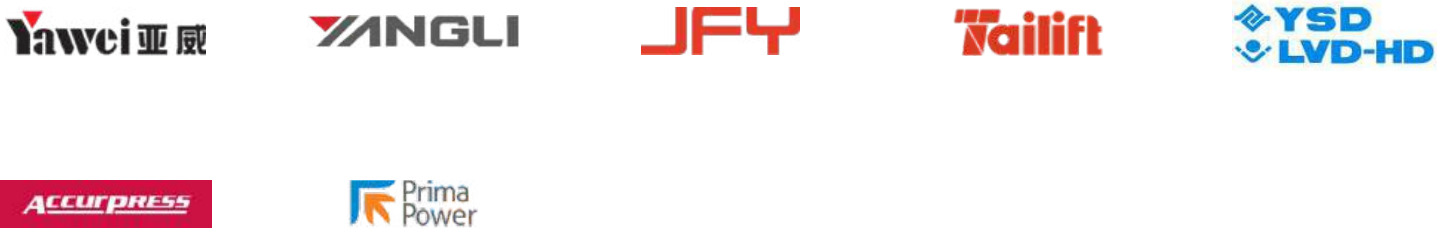
2020

Customer Centric

Implemented both **ERP and CRM software** company-wide to better serve our customers.



Official OEMS Partners



Customer Highlight



KETEC Agents



Our agents are established in more than 25 countries worldwide

Facilities Gallery

Ordering Workshop



Heat-Treatment Center



Standard Production Line



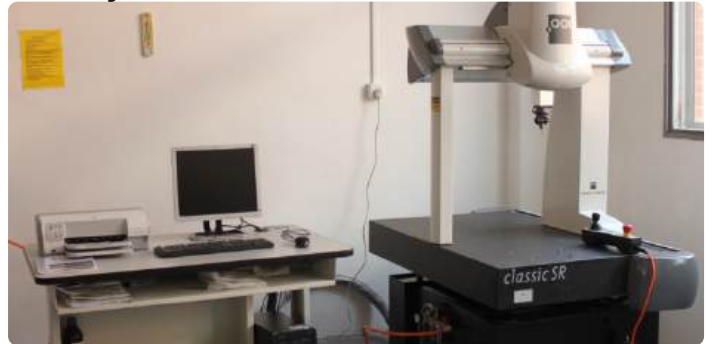
Customized Line



Tooling Test Center



Quality Control Lab



Product Offerings

We specialize in sheet metal fabrication tooling, including **Punch Press, Press Brake, Stamping tools and related machines.**

Punch Press Tooling

- Thick Turret Tooling
- Thin Turret Tooling
- TRUMPF® Style Tooling
- Salvagnini®
- Muratec-Wiedemann®



Stamping Tools

- Automotive
- Thick Plate
- Copper Plate



Press Brake Tooling

- Euro-Amada® Style
- Wila®-Trumpf® Style



Machines

- Tool Grinding Machine
- 2D Inspection Machine



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European Style Press Brake

European Precision Style

Ketec's European Precision Style press brake tools are made with premium alloy with in-house heat treatment and laser hardening, Making it forever-lasting for any metal bending application. We offer press brake punches, dies, and accessories in segmented, full-length, and half-length sizes.





Overview

Inheriting the excellent qualities of Ketec's punch press tooling, Ketec press brake tooling uses premium 42CrMo, and incorporates the most advanced processing and heat treatment technologies. All key dimensions achieve a precision of ± 0.01 mm, providing you with optimal bending performance.

• Capability

In 2010, Ketec's new factory, covering 13 acres, was established to specialize in press brake tooling with an annual production capacity of 50,000 units (standard sections).

• Precision

All contacting surfaces of our toolings are formed in a single process, ensuring that the height, angle, and radius of the same model are perfectly consistent. Key dimensions maintain a precision of ± 0.01 mm, guaranteeing assembly accuracy remains unchanged regardless of when the tool is purchased.

• Interchangeability

All of our tooling are interchangeable and will perfectly match with other mainstream manufacturers, to eliminate the need for secondary adjustments to correct errors, saving time during tool changes.

• Durability

All compression and wear areas are treated with laser hardening & heat treatment to 56-60 HRC to meet extreme tolerances and complex requirements.

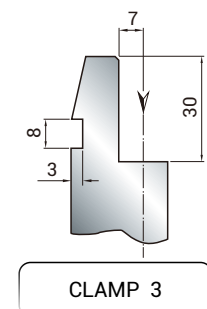
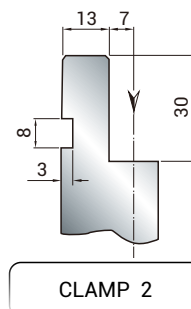
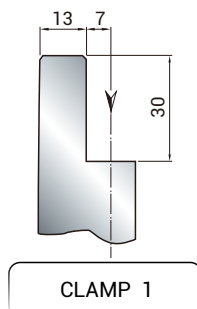
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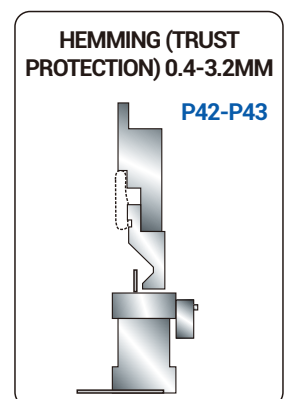
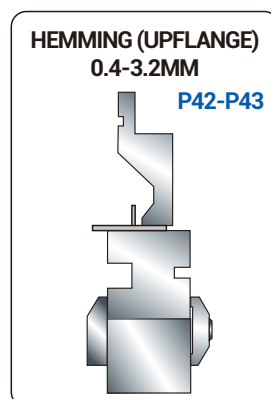
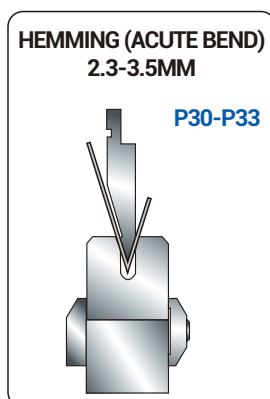
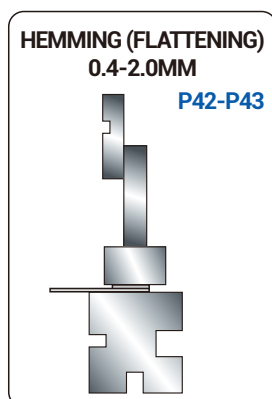
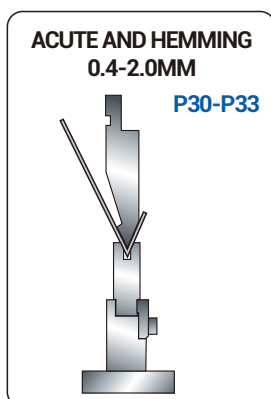
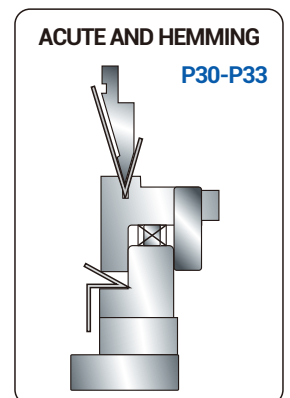
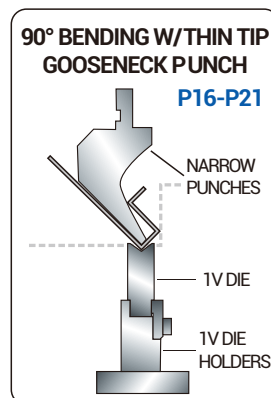
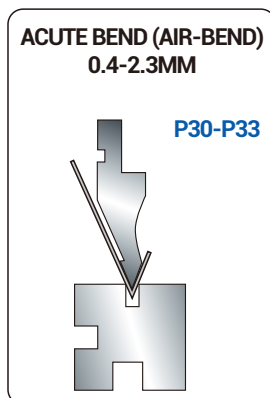
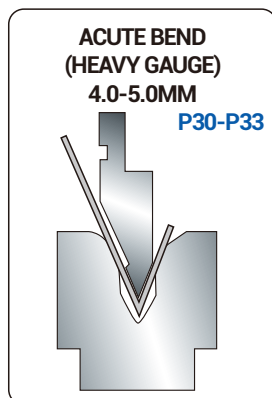
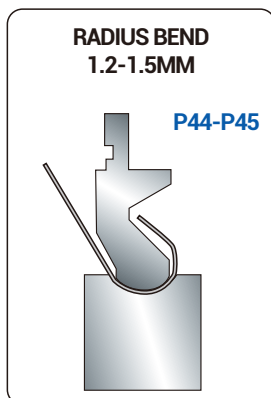
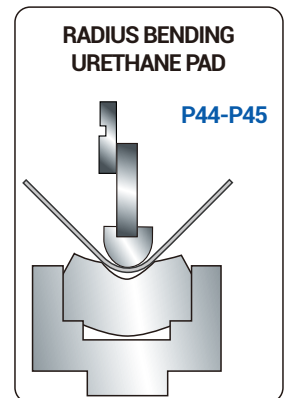
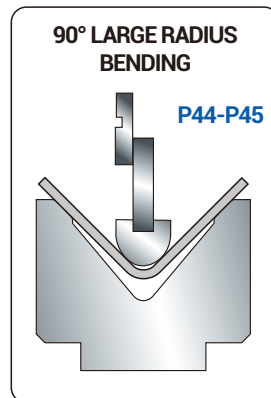
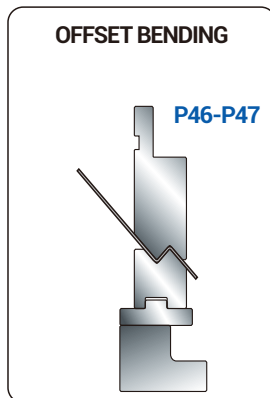
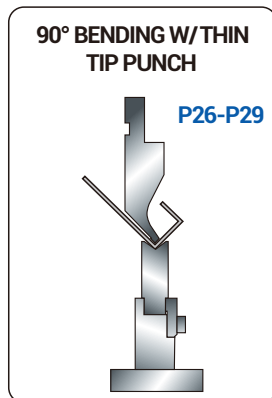
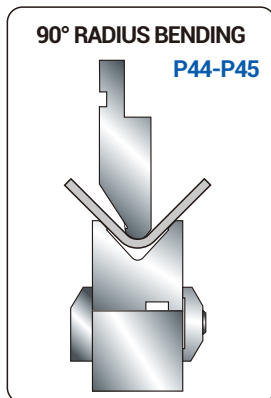
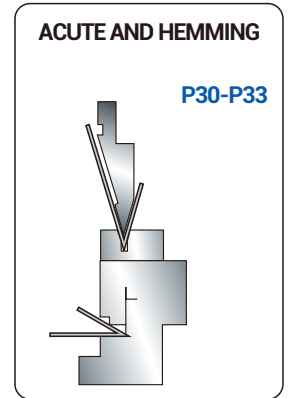
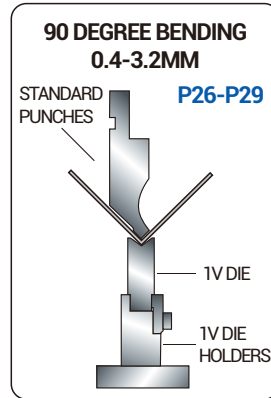
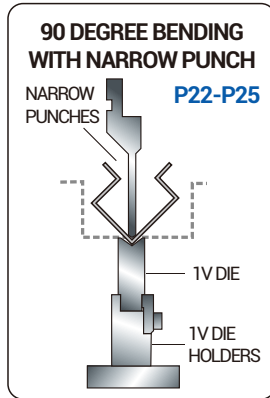
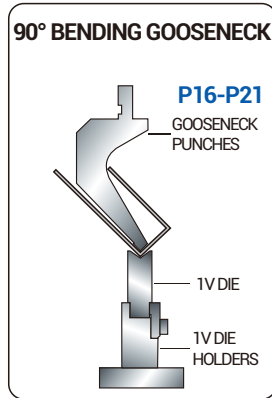
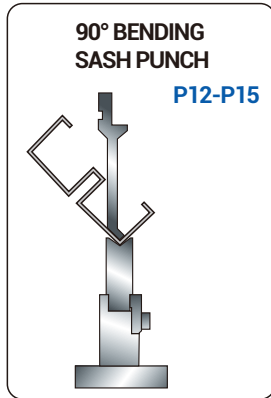


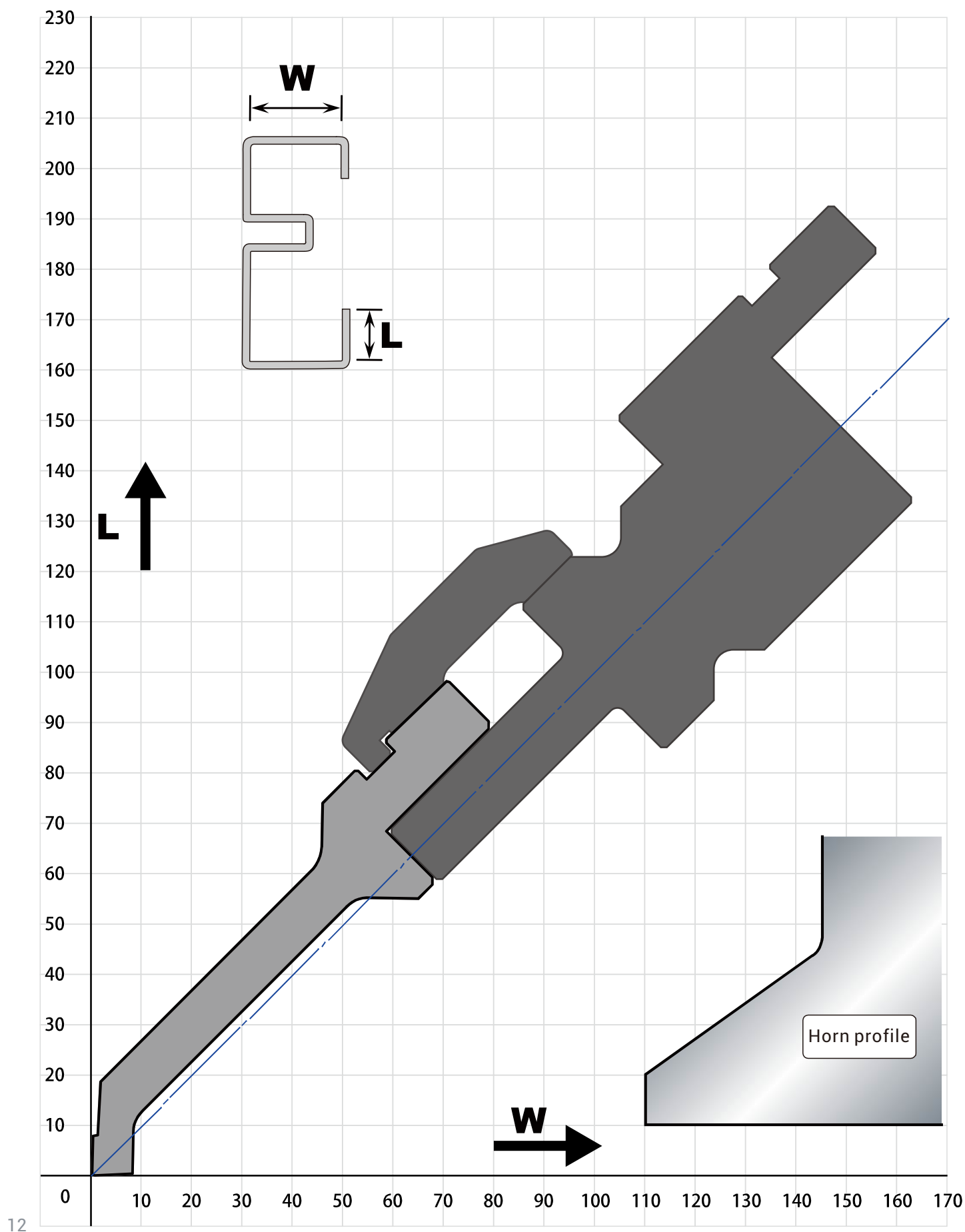
#503981 86°
2V8-12
H=46 L=835

MAX: 700KN/M (60ton/m)
www.ketecooling.com

European Clamping Style

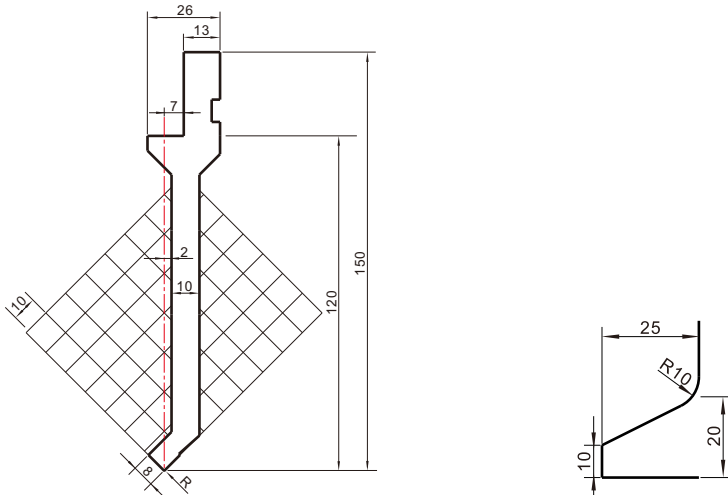






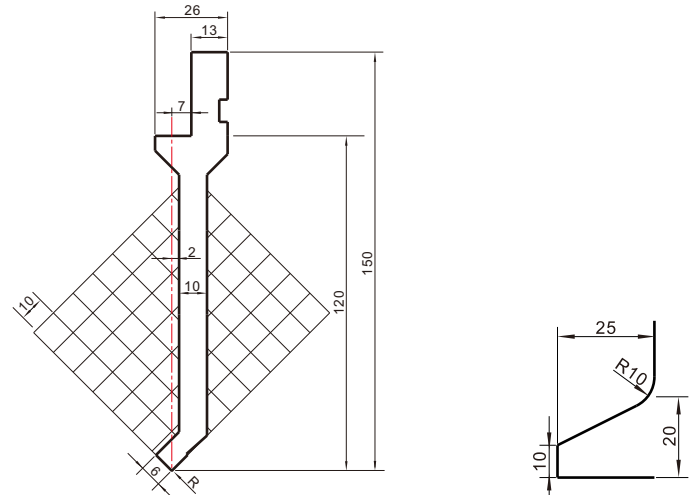
FIXED HEIGHT

A200



FIXED HEIGHT

A200-6

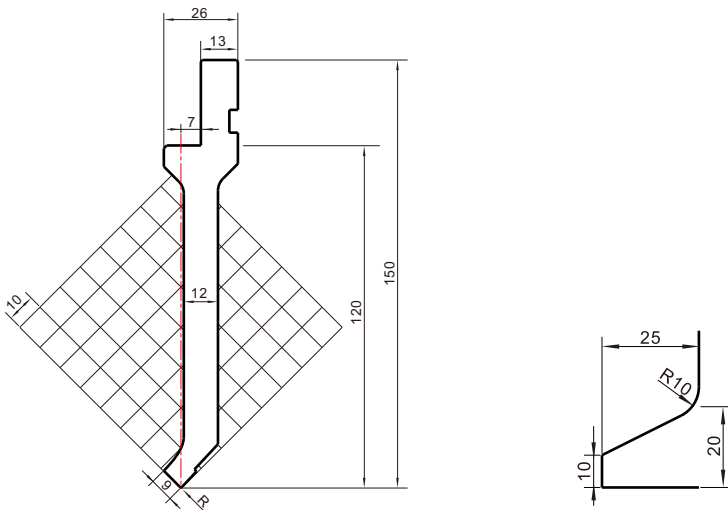


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A200L	86°	0.2 & 0.6	45T/M 441KN/M	8	L835mm / 32.87" 13KG / 28.7LBS	HRC 52-60
A200S					L415mm / 16.34" 6KG / 13.2LBS	
A200LX			L835mm / 32.87" SE 12.4KG / 27.3LBS			
A200H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A200-6L	86°	0.2 & 0.6	30T/M 294KN/M	6	L835mm / 32.87" 12.8KG / 28.2LBS	HRC 52-60
A200-6S					L415mm / 16.34" 6.7KG / 14.8LBS	
A200-6LX			L835mm / 32.87" SE 12.2KG / 26.9LBS			
A200-6H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

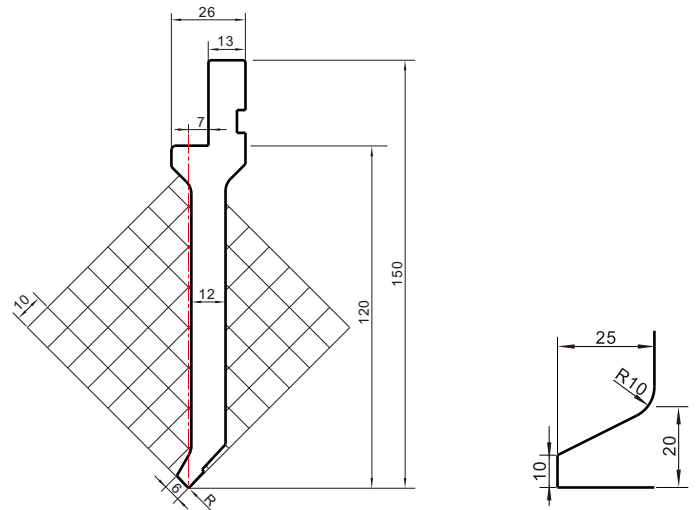
FIXED HEIGHT

A041



FIXED HEIGHT

A041-6



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A041L	86°	0.2 & 0.6	100T/M 981KN/M	9	L835mm / 32.87" 13KG / 28.7LBS	HRC 52-60
A041S					L415mm / 16.34" 6KG / 13.2LBS	
A041LX			L835mm / 32.87" SE 12.3KG / 27.1LBS			
A041H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

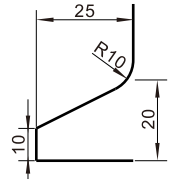
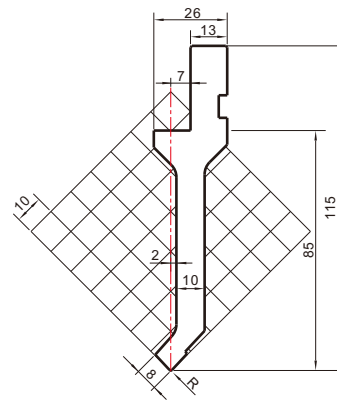
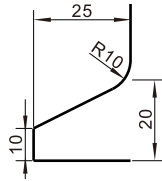
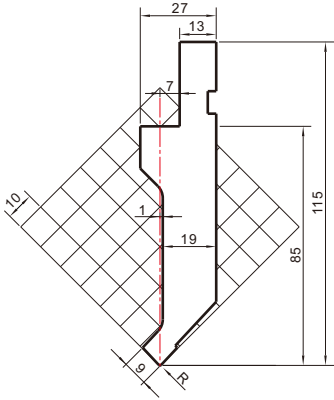
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A041-6L	86°	0.2 & 0.6	70T/M 686KN/M	6	L835mm / 32.87" 14.3KG / 31.5LBS	HRC 52-60
A041-6S					L415mm / 16.34" 7.4KG / 16.3LBS	
A041-6LX						
A041-6H			L835mm / 32.87" SE 13.8KG / 30.4LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	

FIXED HEIGHT

A14

FIXED HEIGHT

A10



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A14L	86°	0.2 & 0.6	100T/M 981KN/M	8	L835mm / 32.87" 14.4KG / 31.7LBS	HRC 52-60
A14S					L415mm / 16.34" 7.3KG / 16.1LBS	
A14LX					L835mm / 32.87" SE 13.7KG / 30.2LBS	
A14H			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

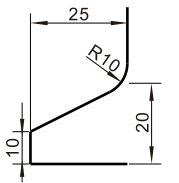
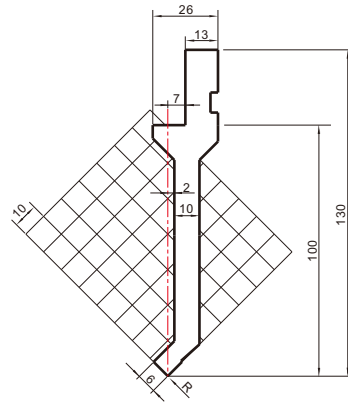
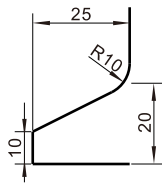
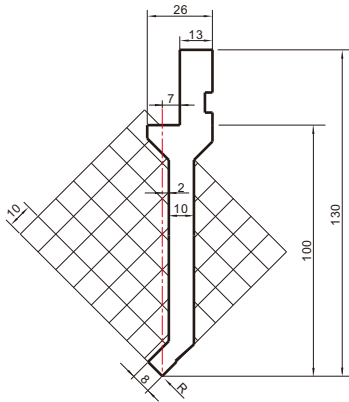
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A10L	86°	0.2 / 0.6 / 3.0	30T/M 294KN/M	6	L835mm / 32.87" 9.2KG / 20.3LBS	HRC 52-60
A10S					L415mm / 16.34" 5KG / 11.0LBS	
A10LX			L835mm / 32.87" SE 8.8KG / 19.4LBS			
A10H			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

KETEC STANDARD

K202

KETEC STANDARD

K202-6

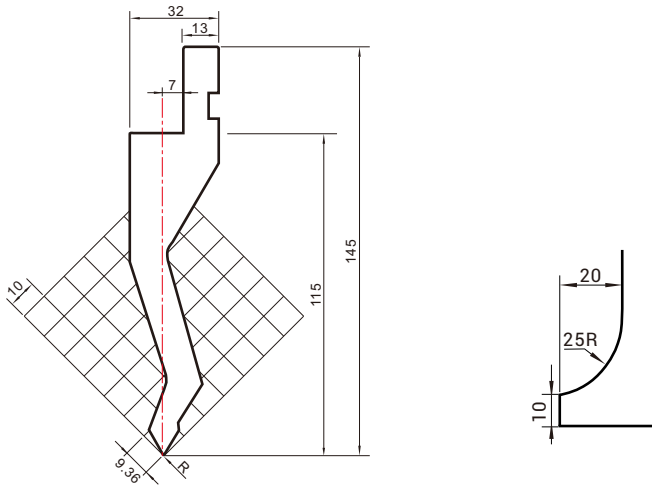


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K202L	88°	0.2 & 0.6	30T/M 294KN/M	8	L835mm / 32.87" 11.5KG / 25.4LBS	HRC 52-60
K202S					L415mm / 16.34" 5.2KG / 11.5LBS	
K202LX			L835mm / 32.87" SE 11.1KG / 24.5LBS			
K202H					HORN 15T/M 147KN/M	
CUSTOMIZABLE						

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K202-6L	88°	0.2 & 0.6	25T/M 245KN/M	6	L835mm / 32.87" 11.4KG / 25.1LBS	HRC 52-60
K202-6S					L415mm / 16.34" 5.85KG / 12.9LBS	
K202-6LX			L835mm / 32.87" SE 10.9KG / 24.0LBS			
K202-6H			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

KETEC NEW PRODUCTS

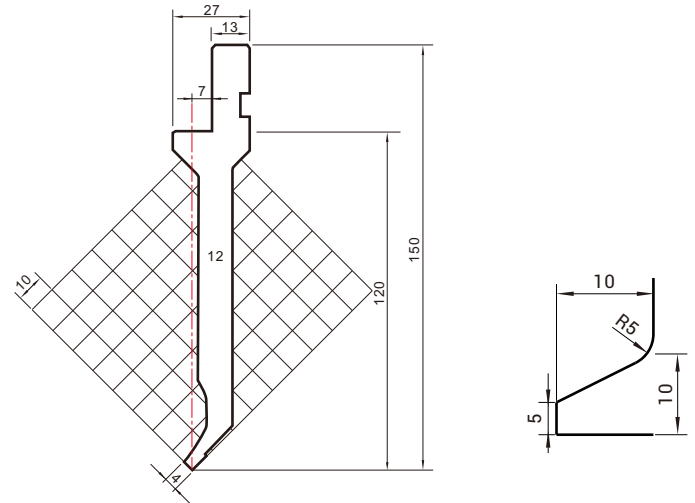
K10.510



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K10.510L	60°	0.8	61T/M 600KN/M	9.36	L835mm / 32.87" 14.9KG / 32.8LBS	HRC 52-60
K10.510S					L415mm / 16.34" 7.5KG / 16.5LBS	
K10.510LX			L835mm / 32.87" SE 13.6KG / 30.0LBS			
K10.510H					L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

KETEC NEW PRODUCTS

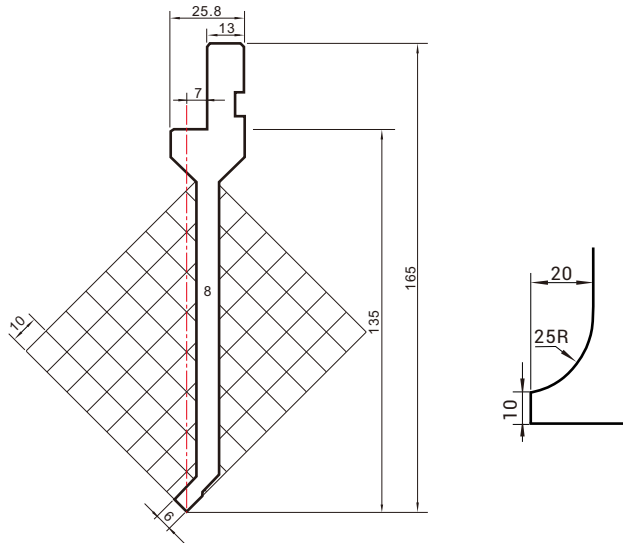
K12.037



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K12.037L	86°	0.6	30.6T/M 300KN/M	4	L835mm / 32.87" 12.1KG / 26.7LBS	HRC 52-60
K12.037S					L415mm / 16.34" 6.3KG / 13.9LBS	
K12.037LX			L835mm / 32.87" SE 11.7KG / 25.8LBS			
K12.037H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

KETEC NEW PRODUCTS

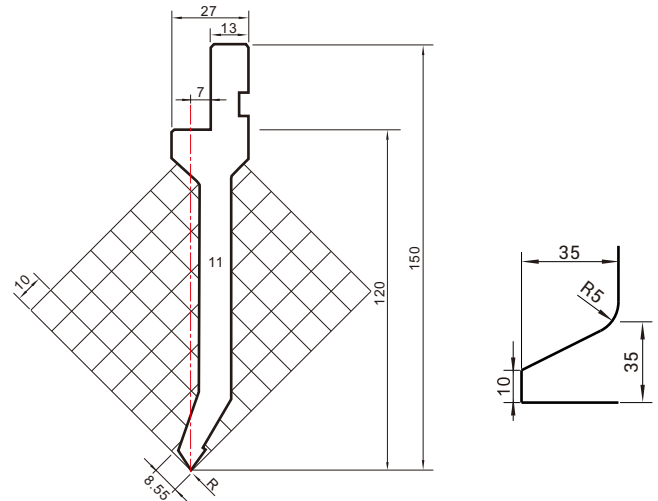
K11.855



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.855L	85°	0.6	40.8T/M 400KN/M	6	L835mm / 32.87" 11KG / 24.2LBS	HRC 52-60
K11.855S					L415mm / 16.34" 5.6KG / 12.3LBS	
K11.855LX						
K11.855H						
CUSTOMIZABLE			HORN 15T/M 147KN/M		L835mm / 32.87" SE 10.3KG / 22.7LBS	
					HORN L200mm / 7.87" 1KG / 2.2LBS	

KETEC NEW PRODUCTS

K12.040

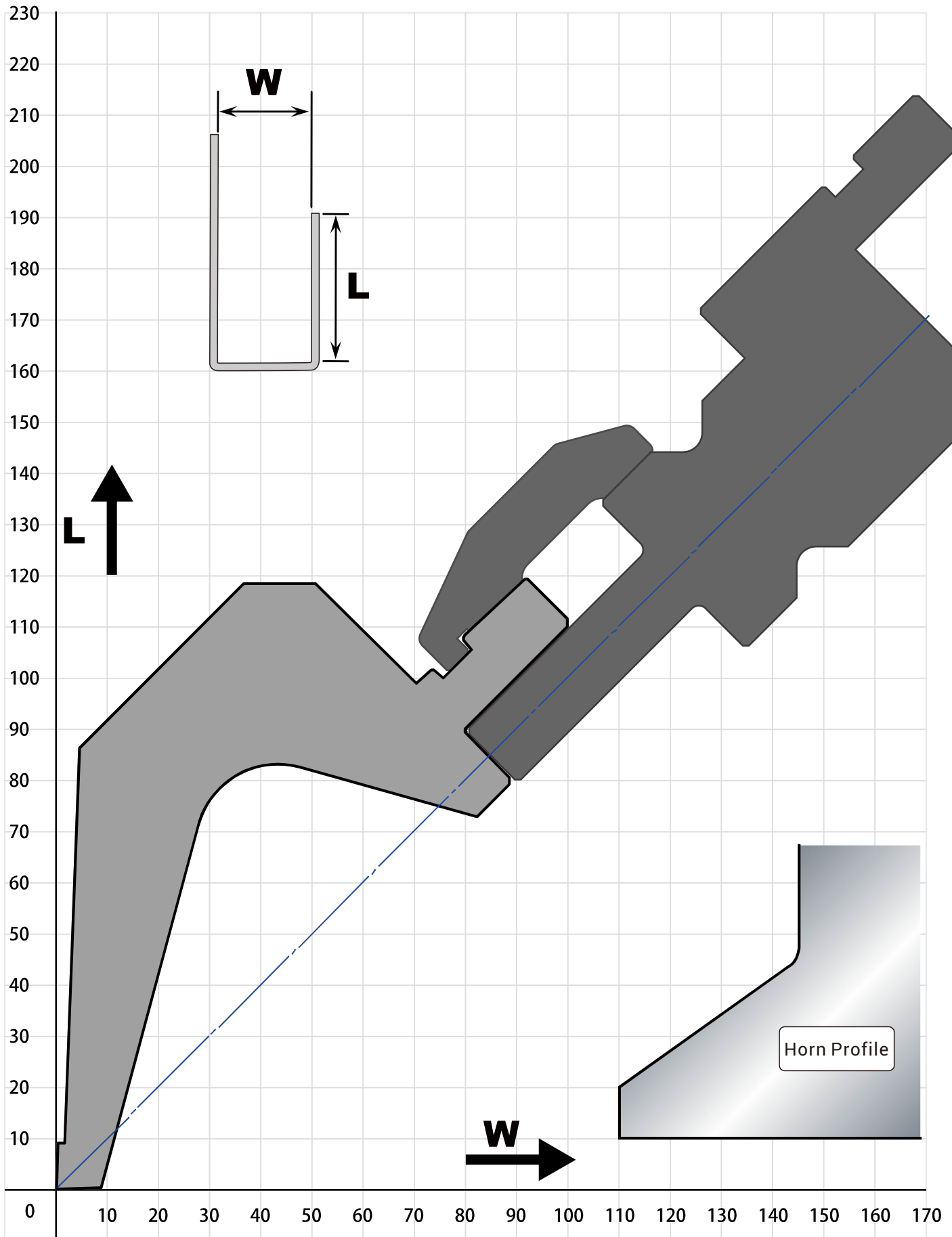


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K12.040L	60°	1.5	71.4T/M 700KN/M	8.55	L835mm / 32.87" 12.3KG / 27.1LBS	HRC 52-60
K12.040S					L415mm / 16.34" 6.3KG / 13.9LBS	
K12.040LX			L835mm / 32.87" SE 11.7KG / 25.8LBS			
K12.040H			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						



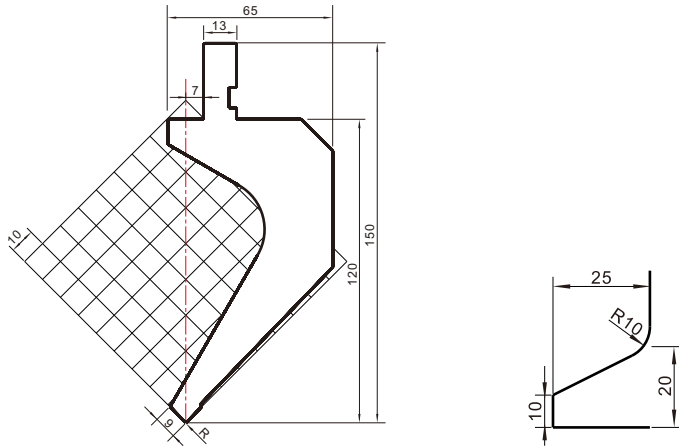
FIXED HEIGHT GOOSENECK PUNCHES

GOOSENECK PUNCH PROFILE



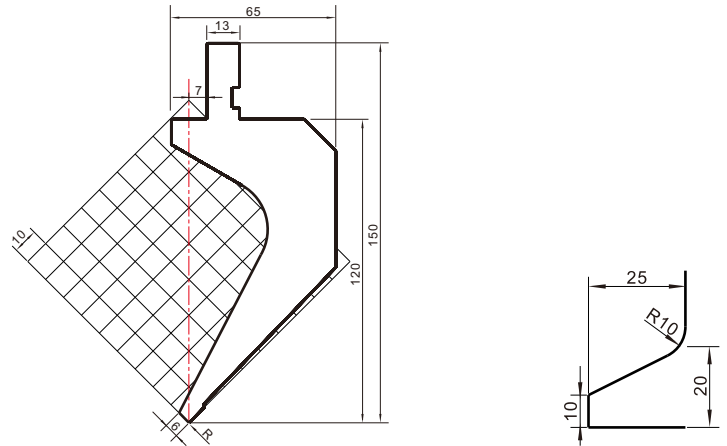
FIXED HEIGHT

A47



FIXED HEIGHT

A47-6

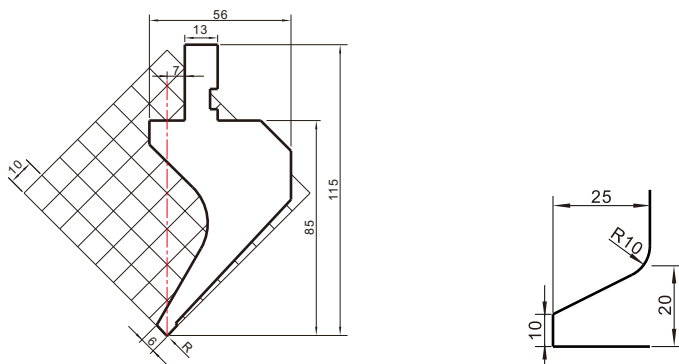


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A47L	86°	0.2 & 0.6	50T/M 490KN/M	9	L835mm / 32.87" 28.5KG / 62.8LBS	HRC 52-60
A47S					L415mm / 16.34" 14.6KG / 32.2LBS	
A47LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 26.5KG / 58.4LBS	
A47H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
A47-6L	86°	0.2 & 0.6	30T/M 294KN/M	6	L835mm / 32.87" 26.3KG / 50.8LBS	HRC 52-60	
A47-6S					L415mm / 16.34" 13.3KG / 29.3LBS		
A47-6LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 24.5KG / 54.0LBS		
A47-6H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

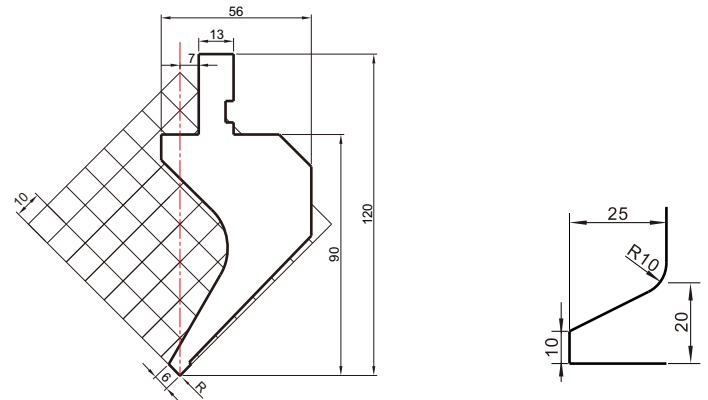
FIXED HEIGHT

A43



FIXED HEIGHT

K453



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
A43L	86°	0.6	50T/M 490KN/M	6	L835mm / 32.87" 20.5KG / 45.2LBS	HRC 52-60	
A43S					L415mm / 16.34" 11.6KG / 25.6LBS		
A43LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 20.5KG / 45.2LBS		
A43H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

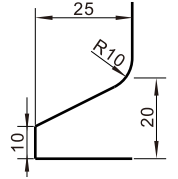
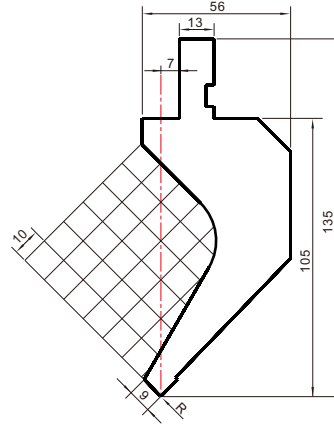
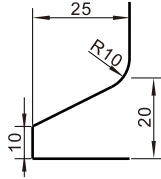
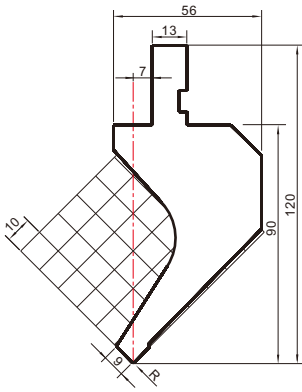
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K453L	88°	0.2 & 0.6	50T/M 490KN/M	6	L835mm / 32.87" 21KG / 46.3LBS	HRC 52-60	
K453S					L415mm / 16.34" 10.7KG / 23.6LBS		
K453LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 21KG / 46.3LBS		
K453H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

FIXED HEIGHT

K452

FIXED HEIGHT

K045

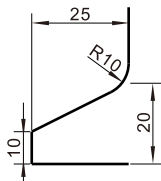
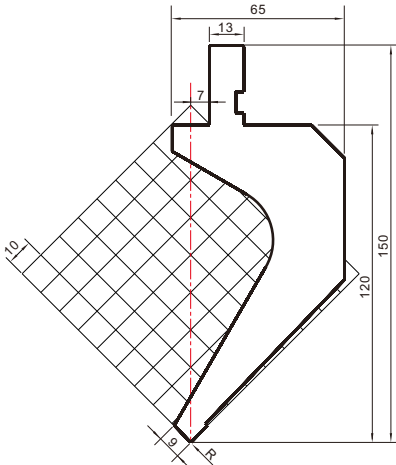


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K452L	88°	0.2 & 0.6	70T/M 686KN/M	8	L835mm / 32.87" 22.4KG / 49.4LBS	HRC 52-60
K452S					L415mm / 16.34" 11.4KG / 25.1LBS	
K452LX					L835mm / 32.87" SE 21KG / 46.3LBS	
K452H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K045L	88°	0.2 & 0.6	50T/M 490KN/M	6	L835mm / 32.87" 24.6KG / 54.2LBS	HRC 52-60
K045S					L415mm / 16.34" 12.4KG / 27.3LBS	
K045LX			L835mm / 32.87" SE 22.8KG / 50.2LBS			
K045H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

KETEC STANDARD

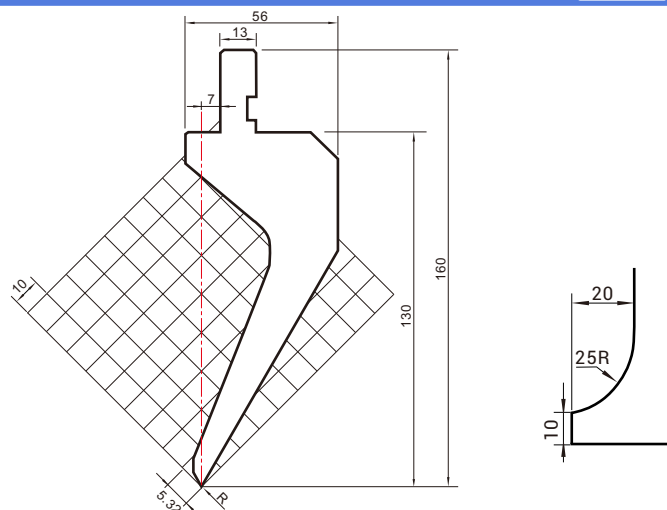
K047



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K047L	88°	0.2 & 0.6	50T/M 490KN/M	9	L835mm / 32.87" 26.5KG / 58.4LBS	HRC 52-60
K047S					L415mm / 16.34" 14.5KG / 32.0LBS	
K047LX			L835mm / 32.87" SE 24.5KG / 54.0LBS			
K047H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

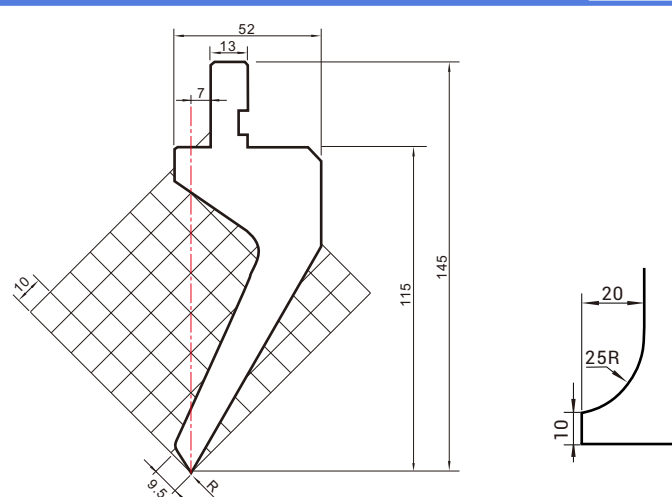
KETEC NEW PRODUCTS

K10.506



KETEC NEW PRODUCTS

K10.500

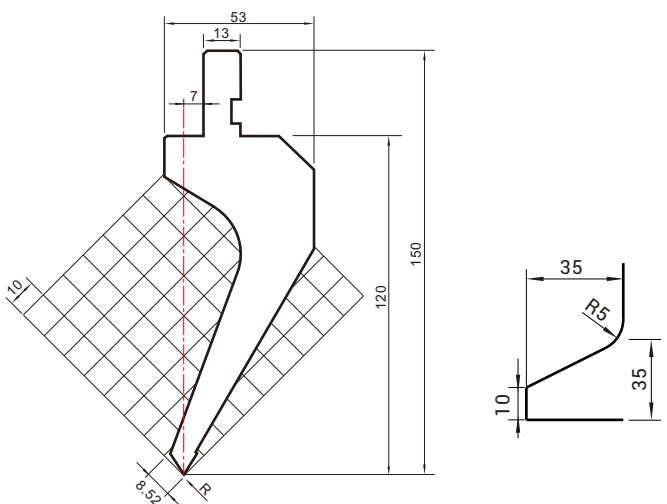


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K10.506L	60°	0.8	40.8T/M 400KN/M	5.32	L835mm / 32.87" 22.4KG / 49.4LBS	HRC 52-60	
K10.506S					L415mm / 16.34" 11.5KG / 25.4LBS		
K10.506LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 21KG / 46.3LBS		
K10.506H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K10.500L	60°	0.8	40.8T/M 400KN/M	9.5	L835mm / 32.87" 19.6KG / 43.2LBS	HRC 52-60	
K10.500S					L415mm / 16.34" 10.5KG / 23.1LBS		
K10.500LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 18KG / 39.7LBS		
K10.500H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

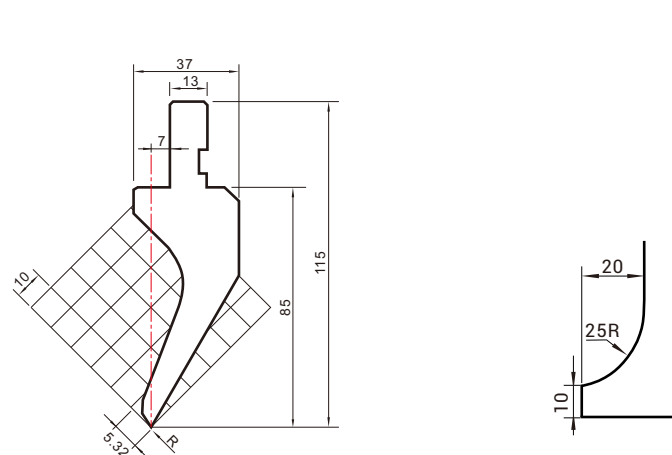
KETEC NEW PRODUCTS

K12.041



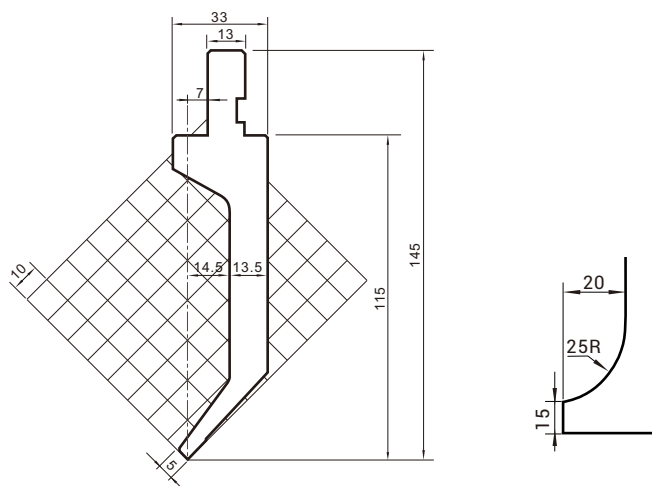
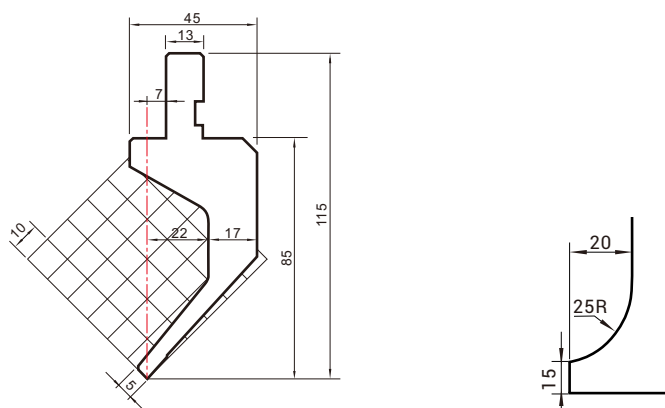
KETEC NEW PRODUCTS

K10.516



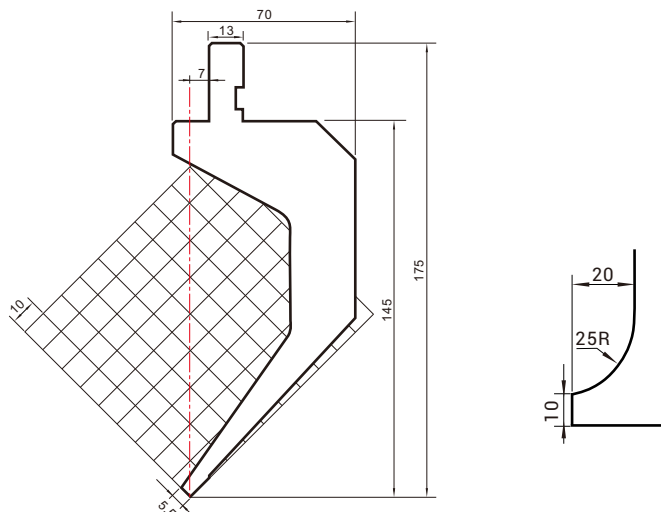
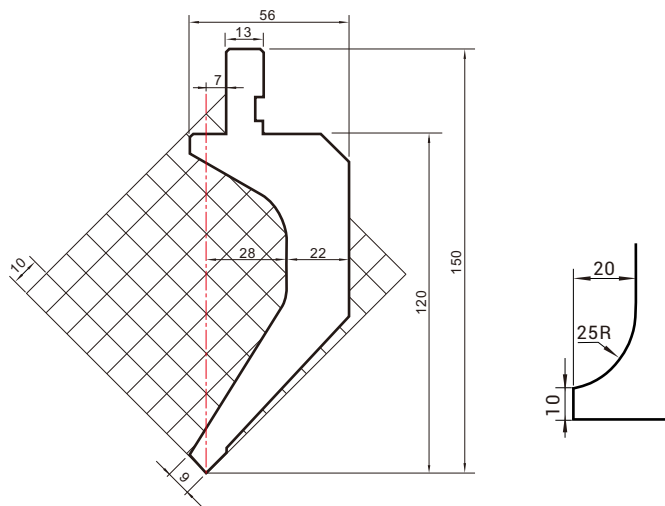
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K12.041L	60°	0.6	40.8T/M 400KN/M	8.52	L835mm / 32.87" 11KG / 24.2LBS	HRC 52-60	
K12.041S					L415mm / 16.34" 5.6KG / 12.3LBS		
K12.041LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 10.3KG / 22.7LBS		
K12.041H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K10.516L	60°	0.8	71.4T/M 700KN/M	5.32	L835mm / 32.87" 12.3KG / 27.1LBS	HRC 52-60	
K10.516S					L415mm / 16.34" 6.3KG / 13.9LBS		
K10.516LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 11.7KG / 25.8LBS		
K10.516H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							



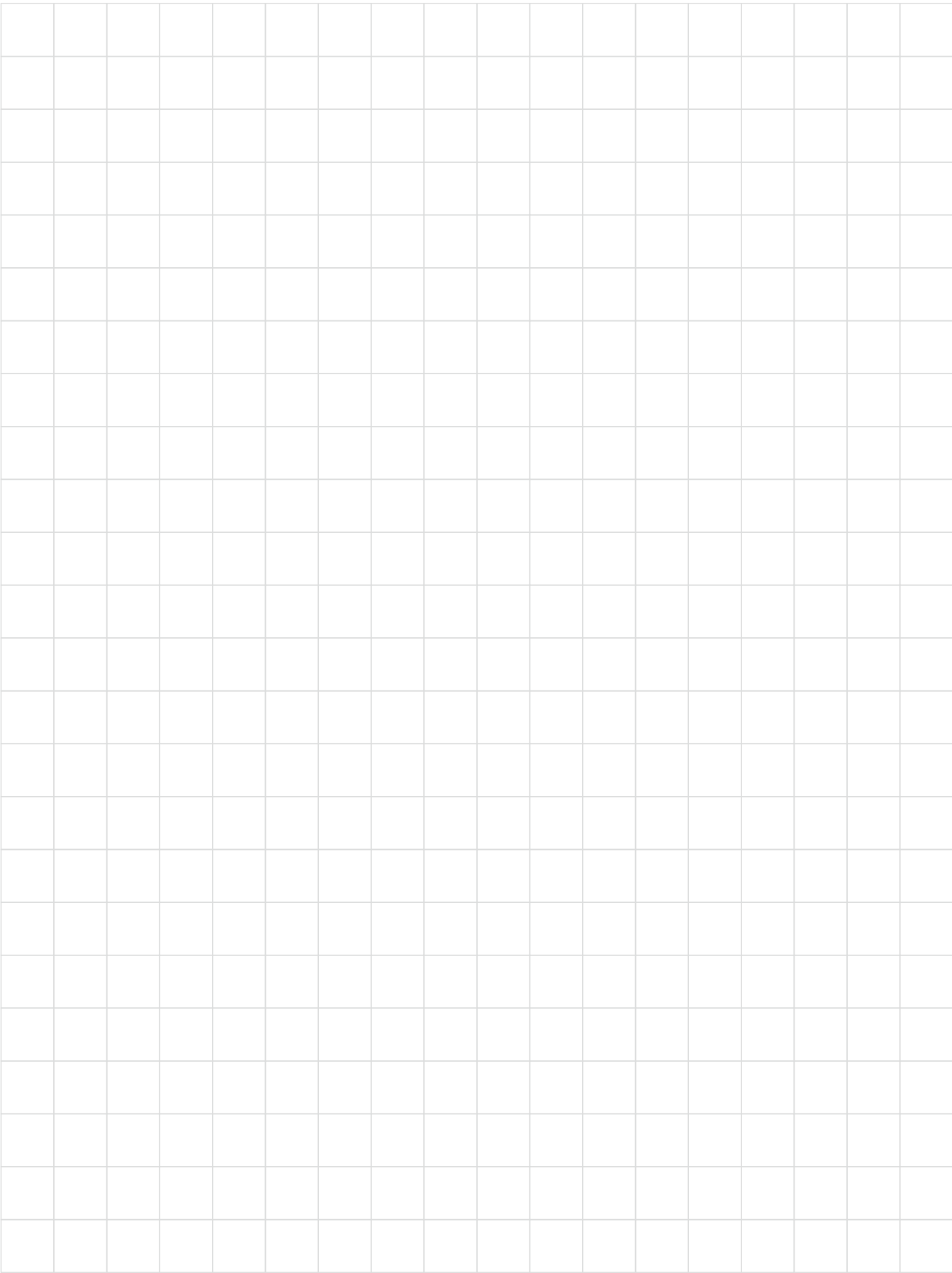
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K11.831L	85°	0.6	100T/M 120KN/M	5	L835mm / 32.87" 12.8KG / 28.2LBS	HRC 52-60	
K11.831S					L415mm / 16.34" 6.8KG / 15.0LBS		
K11.831LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 11KG / 24.3LBS		
K11.831H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K11.820L	85°	0.6	20.4T/M 200KN/M	5	L835mm / 32.87" 13.7KG / 30.2LBS	HRC 52-60	
K11.820S					L415mm / 16.34" 7.2KG / 15.9LBS		
K11.820LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 12KG / 26.5LBS		
K11.820H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K11.835L	85°	0.8	51T/M 500KN/M	9	L835mm / 32.87" 21.4KG / 47.2LBS	HRC 52-60	
K11.835S					L415mm / 16.34" 10.5KG / 23.1LBS		
K11.835LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 20KG / 44.1LBS		
K11.835H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

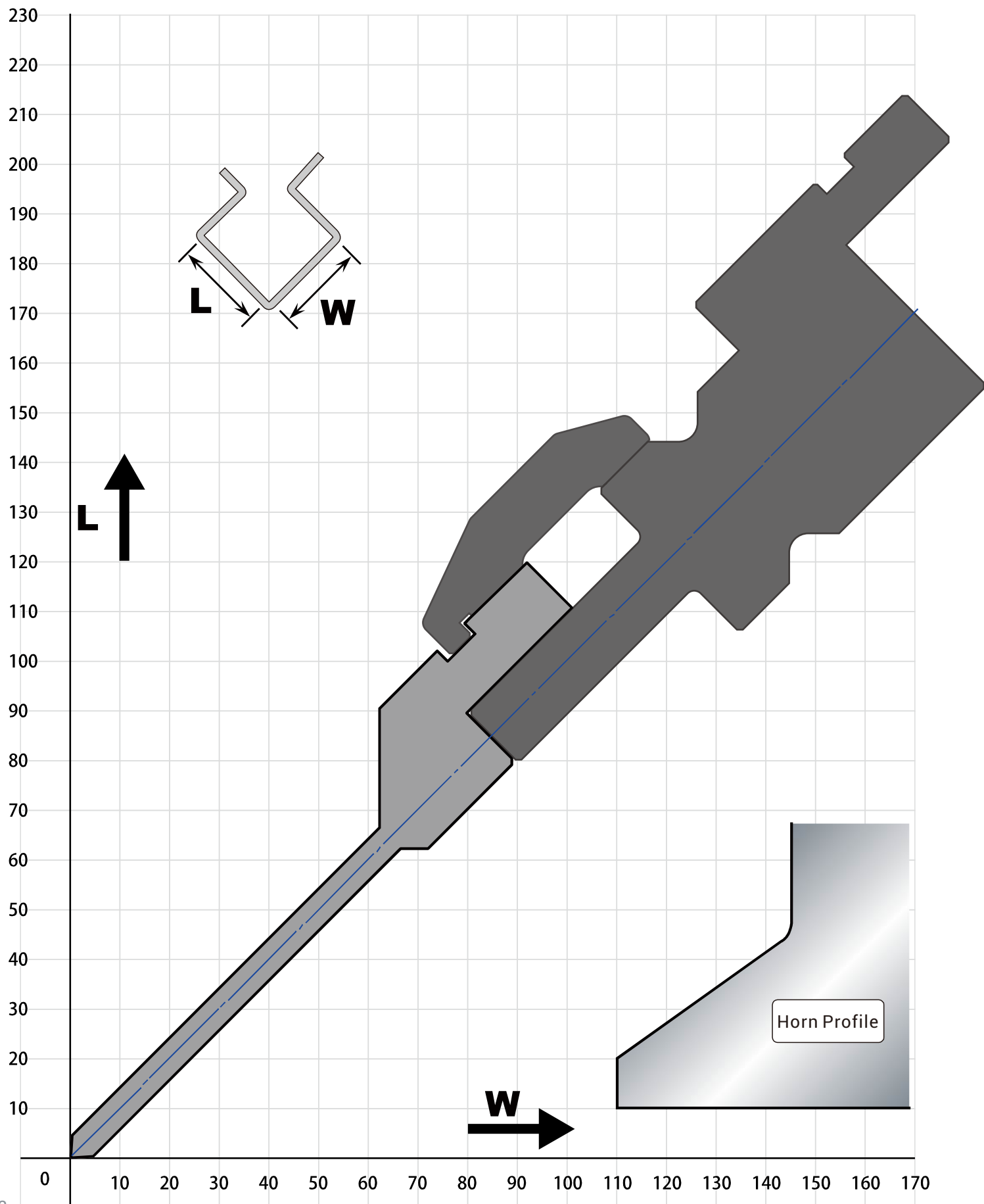
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K11.680L	85°	0.8	25.5T/M 250KN/M	5.5	L835mm / 32.87" 27.7KG / 61.1LBS	HRC 52-60	
K11.680S					L415mm / 16.34" 15.4KG / 34.0LBS		
K11.680LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 26.5KG / 58.4LBS		
K11.680H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							





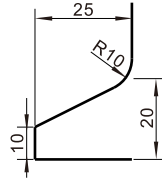
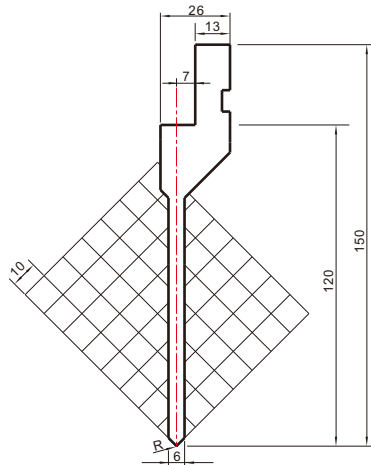
FIXED HEIGHT STRAIGHT PUNCHES

STRAIGHT PUNCH PROFILE



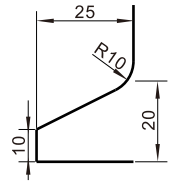
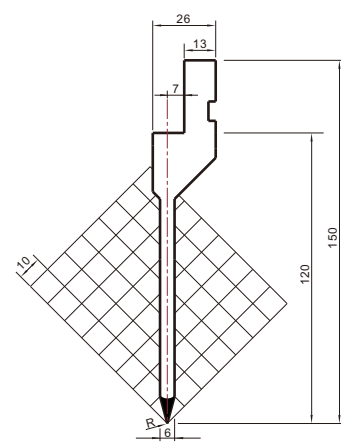
FIXED HEIGHT

A190



FIXED HEIGHT

A130

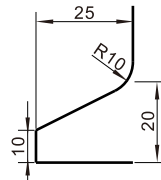
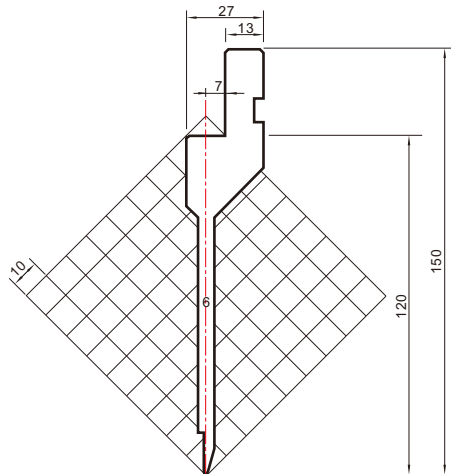


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A190L	86°	0.2 & 0.6	45T/M 441KN/M	6	L835mm / 32.87" 11.5KG / 25.4LBS	HRC 52-60
A190S					L415mm / 16.34" 5.9KG / 13.0LBS	
A190LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 9.3KG / 20.5LBS	
A190H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A130L	30°	0.2 & 0.6	45T/M 441KN/M	6	L835mm / 32.87" 11.4KG / 25.1LBS	HRC 52-60
A130S					L415mm / 16.34" 5.2KG / 11.5LBS	
A130LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 10.9KG / 24.0LBS	
A130H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

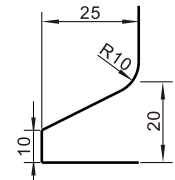
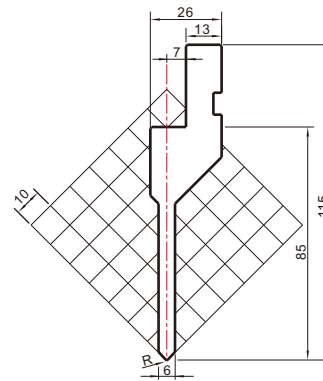
KETEC NEW PRODUCT

K12.043



FIXED HEIGHT

A29



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K12.043L	85°	0.6	45.9T/M 450KN/M	6	L835mm / 32.87" 9.8KG / 21.6LBS	HRC 52-60	
K12.043S					L415mm / 16.34" 5.4KG / 11.9LBS		
K12.043LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 9.3KG / 20.5LBS		
K12.043H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
A29L	86°	0.2 & 0.6	50T/M 490KN/M	6	L835mm / 32.87" 10.5KG / 23.1LBS	HRC 52-60	
A29S					L415mm / 16.34" 5.4KG / 11.9LBS		
A29LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 10.1KG / 22.3LBS		
A29H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							

STRAIGHT PUNCHES

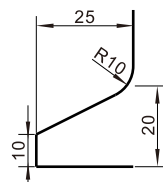
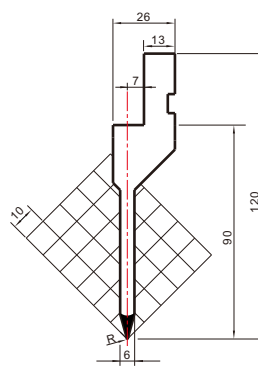
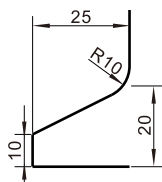
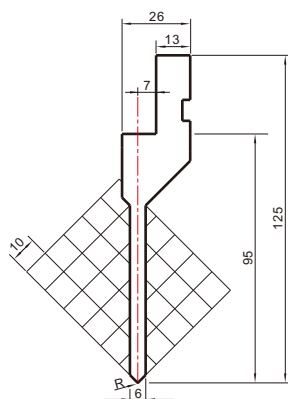


FIXED HEIGHT

K109

FIXED HEIGHT

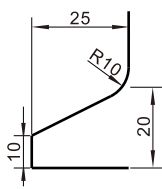
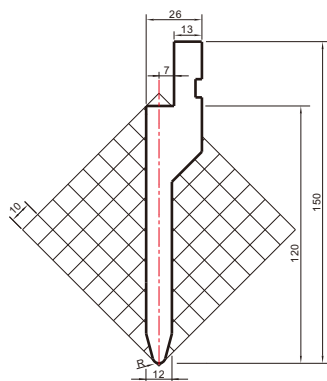
K10870



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K109L	88°	0.2 & 0.6	50T/M 490KN/M	6	L835mm / 32.87" 10.5KG / 23.1LBS	HRC 52-60
K109S					L415mm / 16.34" 5.4KG / 11.9LBS	
K109LX			L835mm / 32.87" SE 9.9KG / 21.8LBS			
K109H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

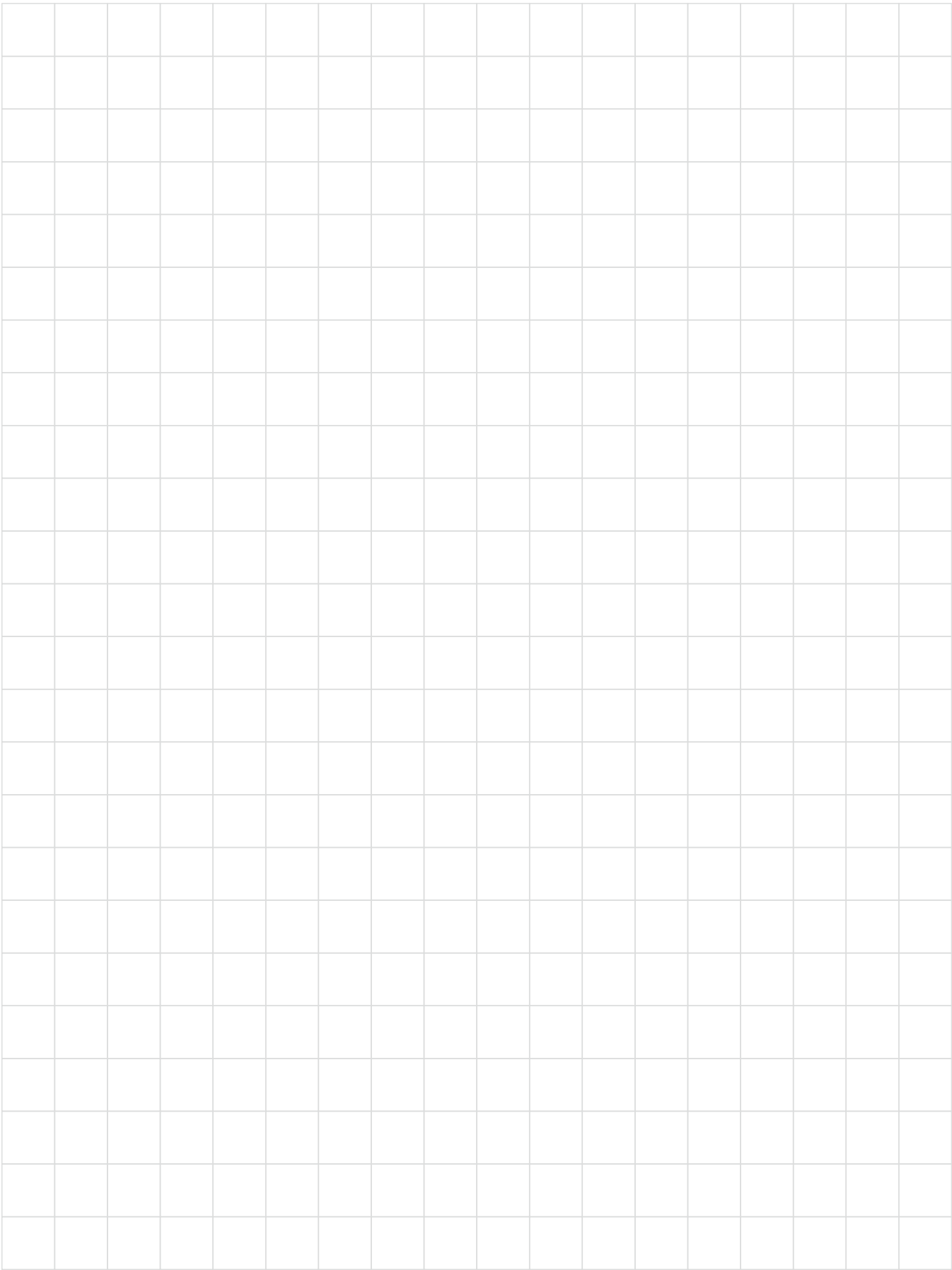
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K10870L	30°	0.2 & 0.6	50T/M 490KN/M	6	L835mm / 32.87" 10.1KG / 22.3LBS	HRC 52-60
K10870S					L415mm / 16.34" 5.2KG / 11.5LBS	
K10870LX			L835mm / 32.87" SE 9.7KG / 21.4LBS			
K10870H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

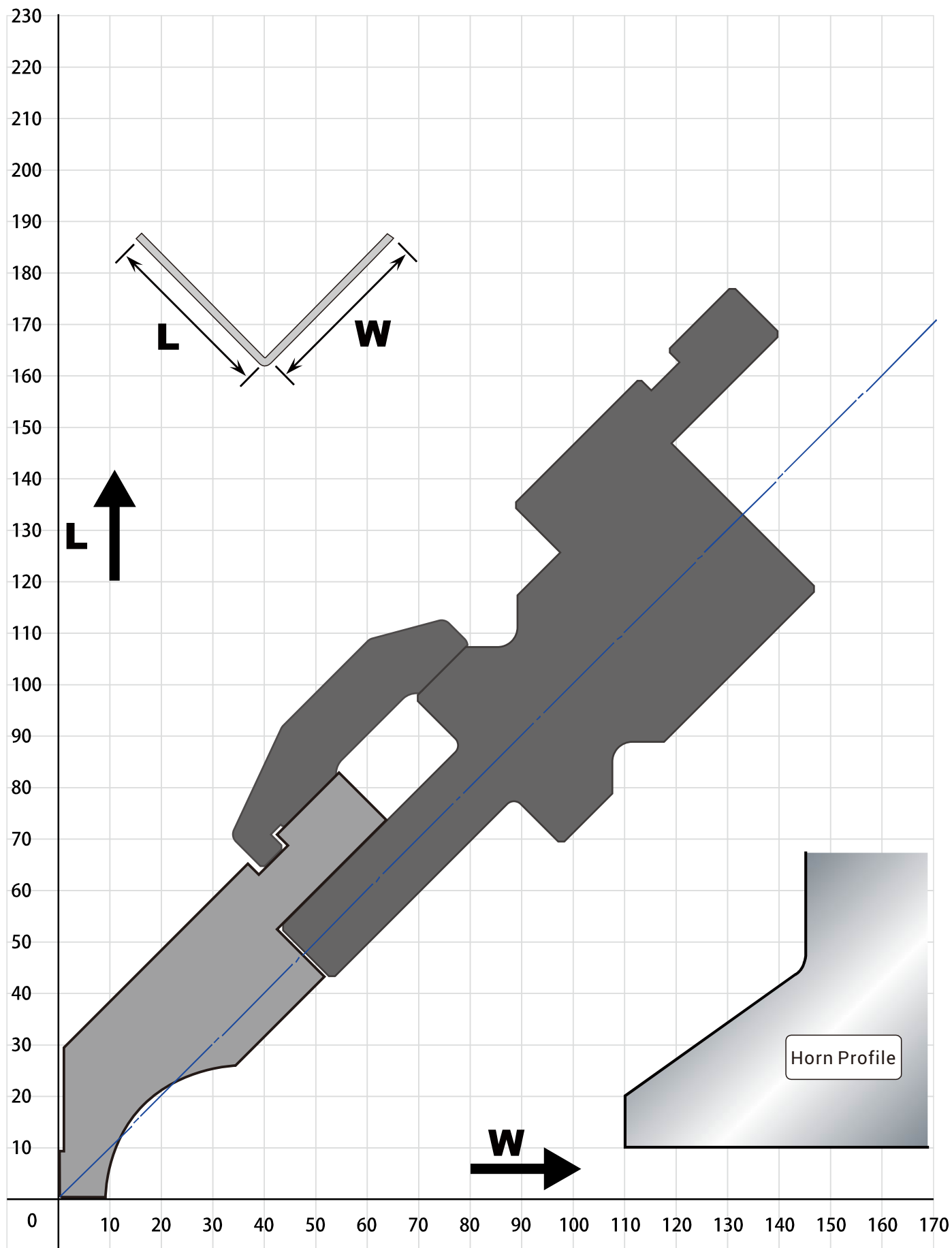
A131



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A131L	30°	3.0	100T/M 981KN/M	12	L835mm / 32.87" 16KG / 35.2LBS	HRC 52-60
A131S					L415mm / 16.34" 7.5KG / 16.5LBS	
A131LX			L835mm / 32.87" SE 15.3KG / 33.7LBS			
A131H			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						





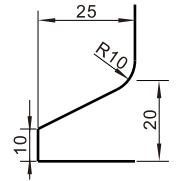
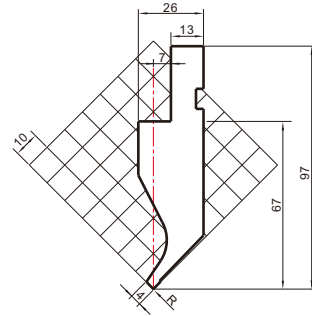
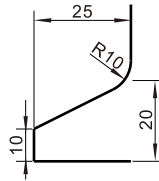
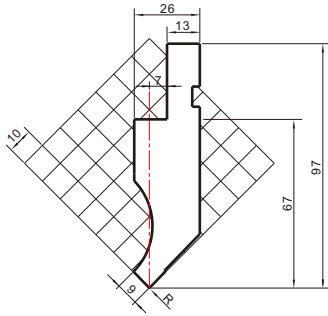


FIXED HEIGHT

K004

FIXED HEIGHT

K117

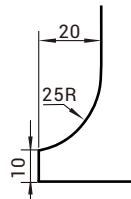
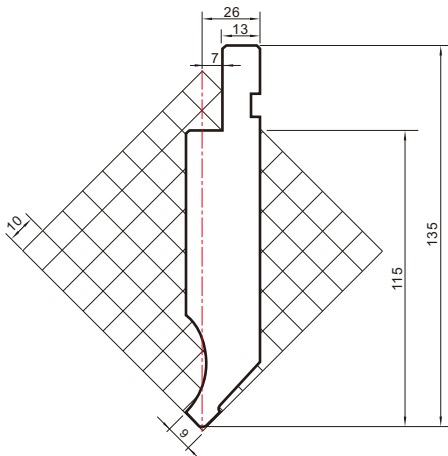


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K004L	88°	0.6 & 1.5	100T/M 981KN/M	9	L835mm / 32.87" 11.5KG / 25.4LBS	HRC 52-60
K004S					L415mm / 16.34" 6.1KG / 13.4LBS	
K004LX					L835mm / 32.87" SE 10.9KG / 24.0LBS	
K004H			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K117L	88°	0.2 & 0.6	20T/M 196KN/M	4	L835mm / 32.87" 11.7KG / 25.8LBS	HRC 52-60
K117S					L415mm / 16.34" 6.1KG / 13.4LBS	
K117LX					L835mm / 32.87" SE 11.5KG / 25.4LBS	
K117H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

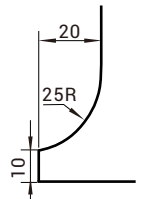
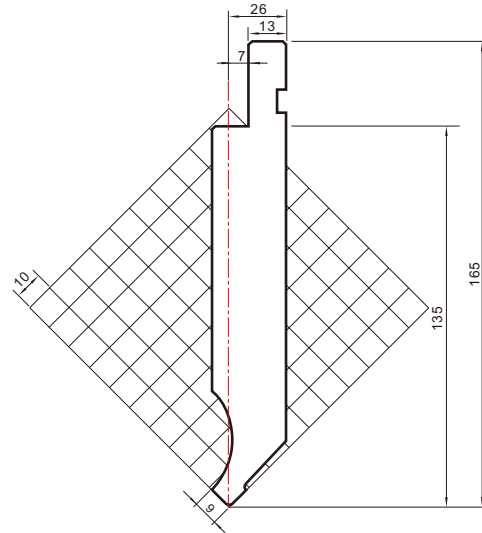
KETEC NEW PRODUCT

K11.231



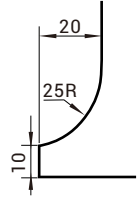
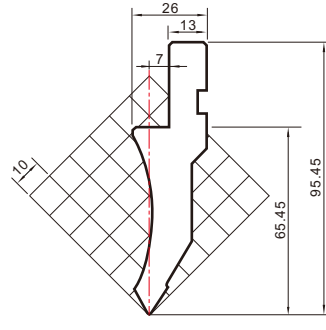
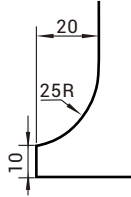
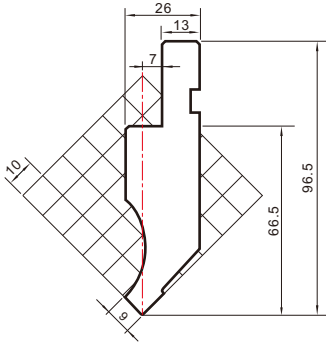
KETEC NEW PRODUCT

K11.232



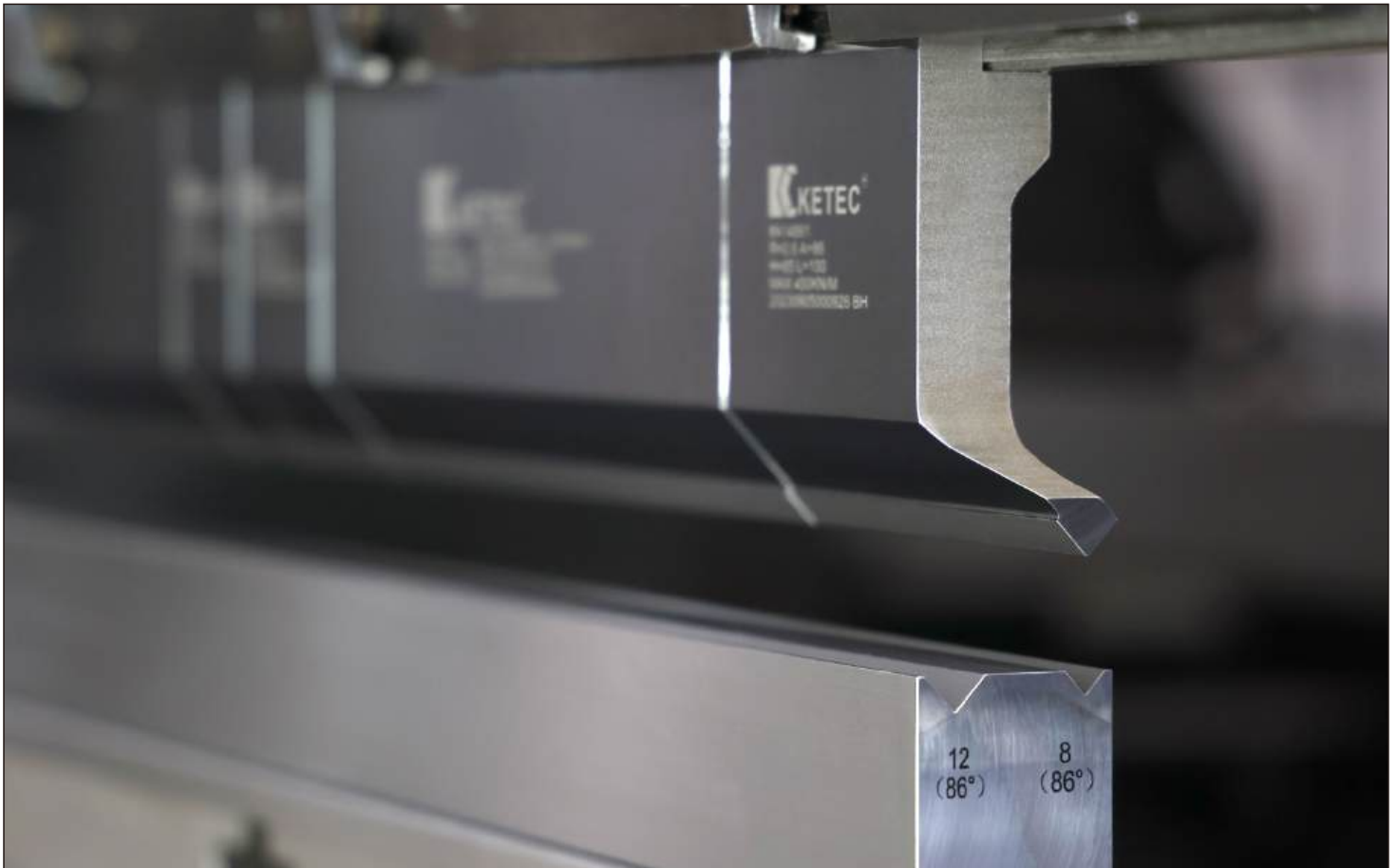
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.231L	85°	3.0	102T/M 1000KN/M	9	L835mm / 32.87" 17.7KG / 39.0LBS	HRC 52-60
K11.231S					L415mm / 16.34" 9.4KG / 20.7LBS	
K11.231LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 16.3KG / 35.9LBS	
K11.231H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

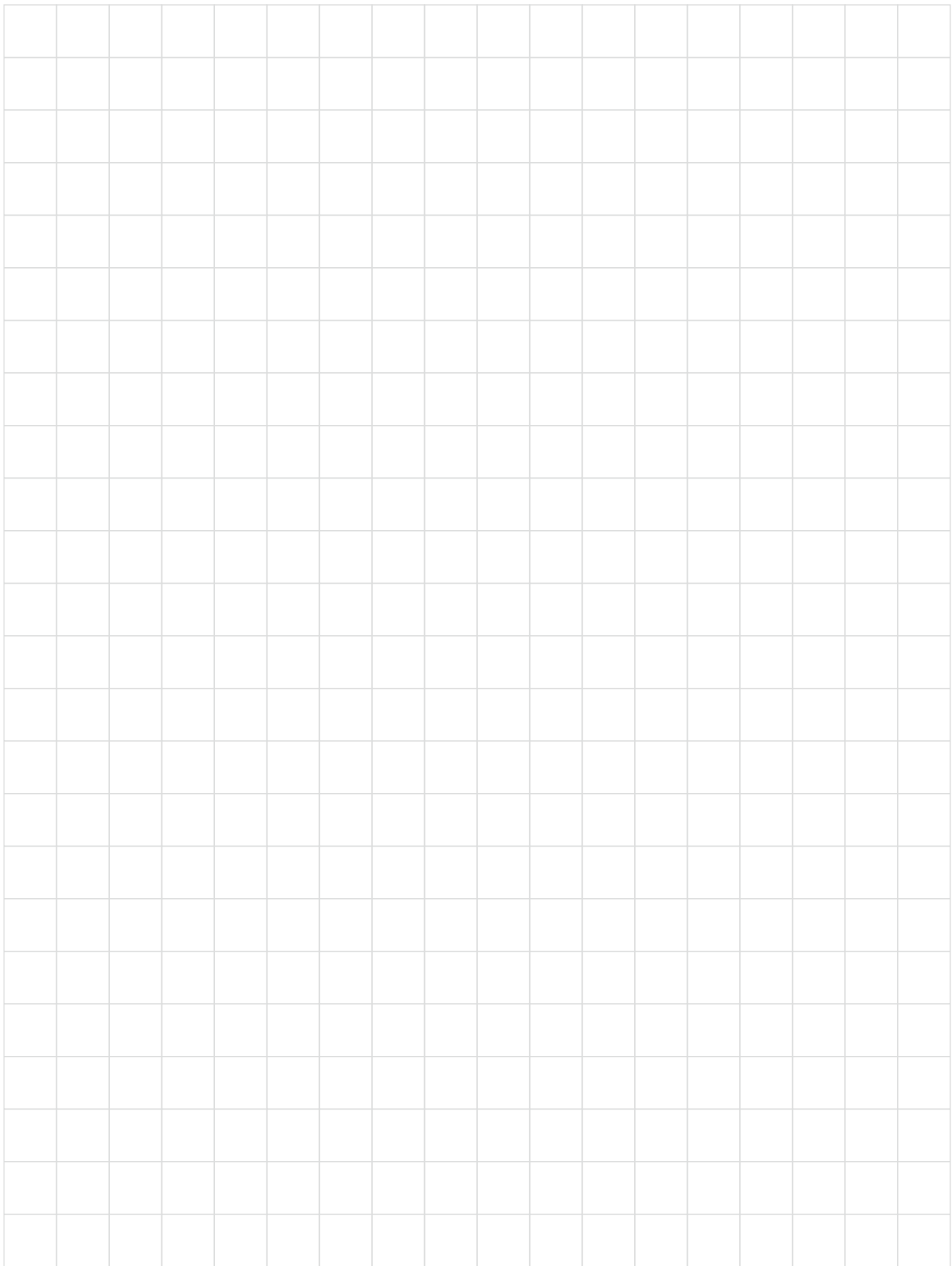
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.232L	85°	0.8	102T/M 1000KN/M	9	L835mm / 32.87" 22.8KG / 50.3LBS	HRC 52-60
K11.232S					L415mm / 16.34" 11.5KG / 25.4LBS	
K11.232LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 20.6KG / 45.4LBS	
K11.232H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						

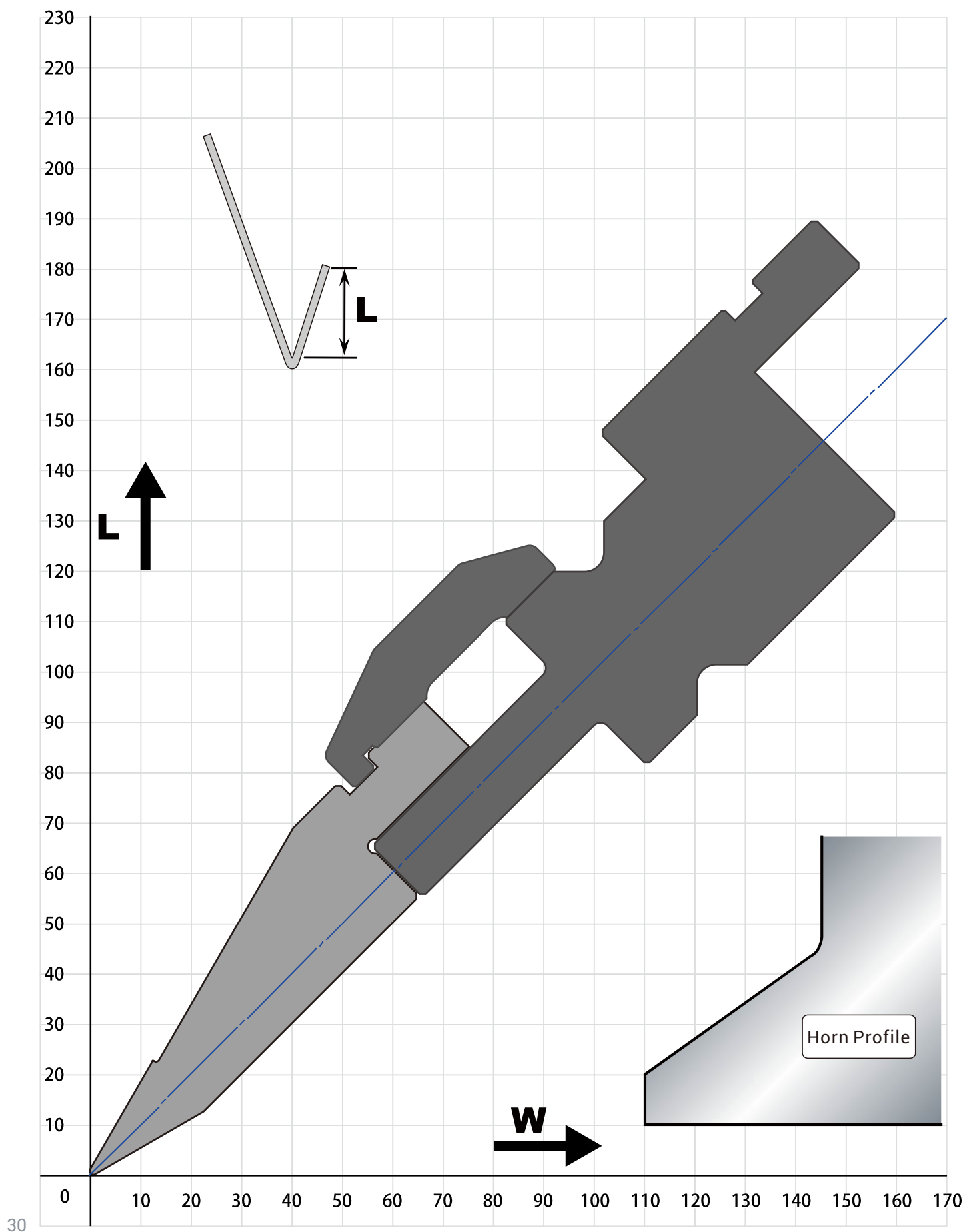


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.200L	85°	0.8	102T/M 1000KN/M	9	L835mm / 32.87" 11.1KG / 24.5LBS	HRC 52-60
K11.200S					L415mm / 16.34" 5.8KG / 12.8LBS	
K11.200LX			L835mm / 32.87" SE 10KG / 22.0LBS			
K11.200H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.201L	85°	3.0	102T/M 1000KN/M	5	L835mm / 32.87" 11KG / 24.3LBS	HRC 52-60
K11.201S					L415mm / 16.34" 5.5KG / 12.1LBS	
K11.201LX			L835mm / 32.87" SE 10KG / 22.0LBS			
K11.201H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE						

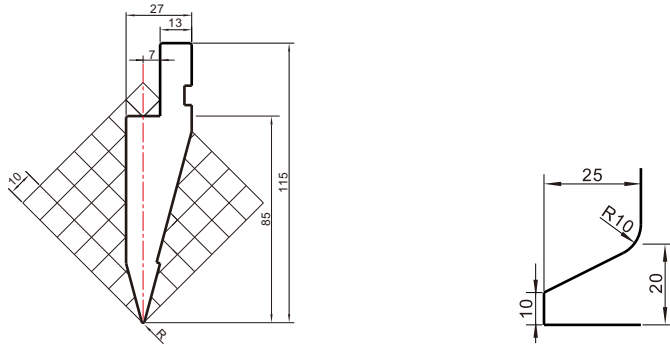






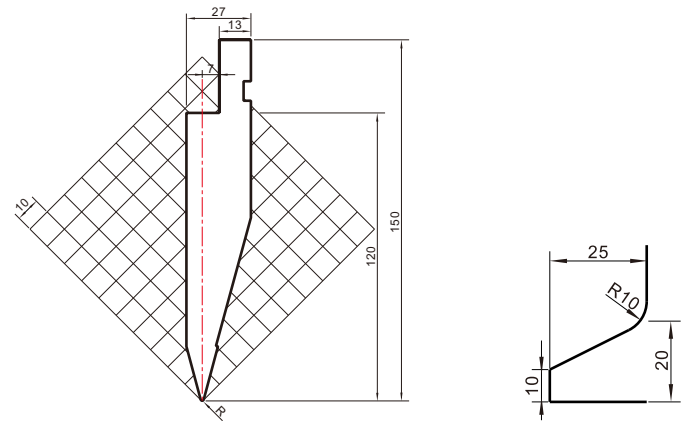
FIXED HEIGHT

A23



FIXED HEIGHT

L210

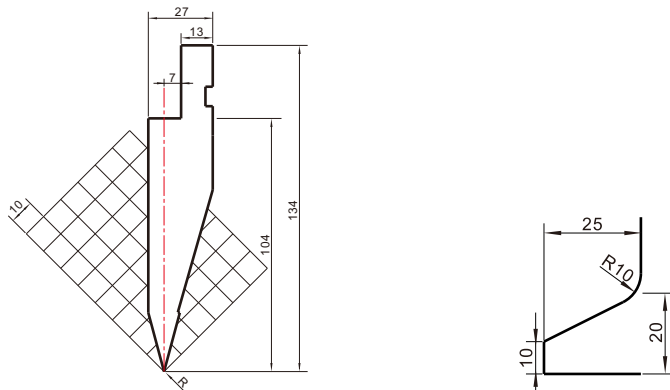


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A23L	26° / 30°	0.6 & 1.0	100T/M 981KN/M		L835mm / 32.87" 13.5KG / 29.8LBS	HRC 52-60
A23S					L415mm / 16.34" 6.9KG / 5.2LBS	
A23LX			L835mm / 32.87" SE 12.9KG / 28.4LBS			
A23H					L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
L210L	26° / 30°	0.65 & 1.0	100T/M 981KN/M		L835mm / 32.87" 20KG / 44.0LBS	HRC 52-60
L210S					L415mm / 16.34" 10.2KG / 22.5LBS	
L210LX			L835mm / 32.87" SE 19.2KG / 42.3LBS			
L210H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

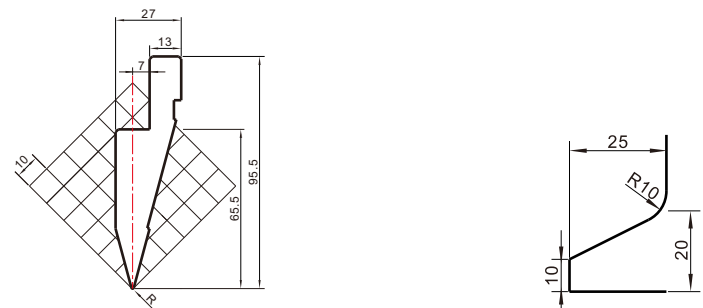
FIXED HEIGHT

K210



FIXED HEIGHT

K103



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K210L	26° / 30°	0.65 & 1.0	100T/M 981KN/M		L835mm / 32.87" 17KG / 37.5LBS	HRC 52-60
K210S					L415mm / 16.34" 8.7KG / 19.2LBS	
K210LX			L835mm / 32.87" SE 16.3KG / 35.9LBS			
K210H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

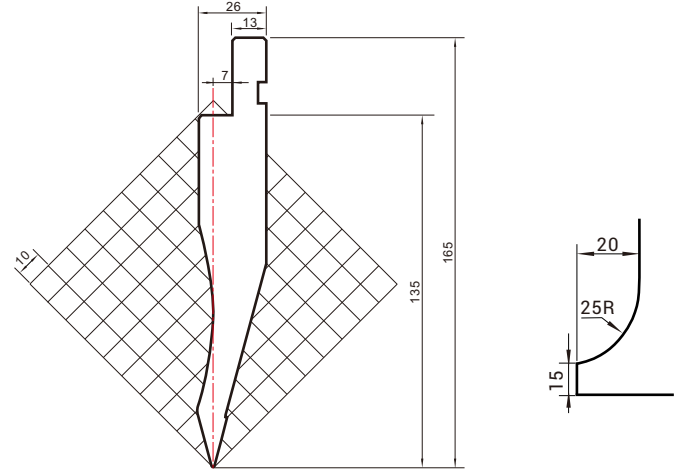
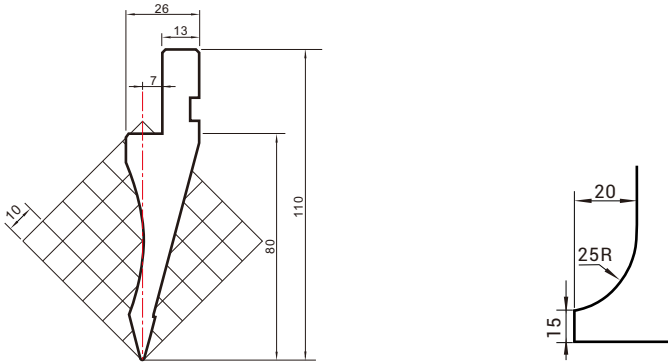
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K103L	26° / 30°	0.5 & 1.0	100T/M 981KN/M		L835mm / 32.87" 10.2KG / 22.5LBS	HRC 52-60
K103S					L415mm / 16.34" 5.2KG / 11.5LBS	
K103LX			L835mm / 32.87" SE 10.2KG / 22.5LBS			
K103H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

KETEC NEW PRODUCTS

K10.514

KETEC NEW PRODUCTS

K11.780



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K10.514L	30°	0.6	51T/M 500KN/M		L835mm / 32.87" 9.1KG / 20.1LBS	HRC 52-60
K10.514S					L415mm / 16.34" 4.5KG / 9.9LBS	
K10.514LX						
K10.514H						
CUSTOMIZABLE			HORN 15T/M 147KN/M		L835mm / 32.87" SE 8.3KG / 18.3LBS	
					HORN L200mm / 7.87" 1KG / 2.2LBS	

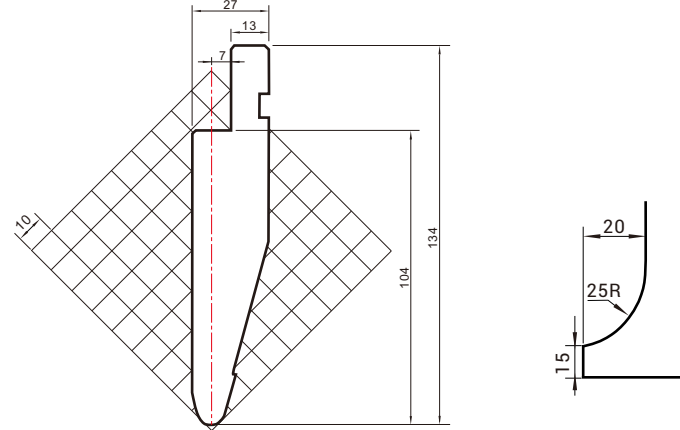
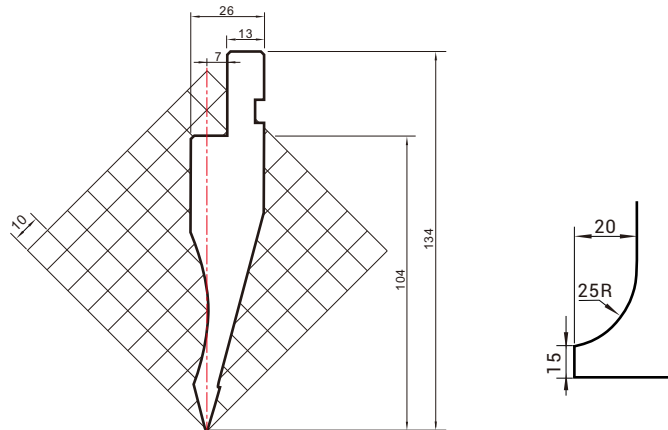
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.780L	30°	0.5	81.6T/M 800KN/M		L835mm / 32.87" 18.4KG / 40.6LBS	HRC 52-60
K11.780S					L415mm / 16.34" 9.1KG / 20.1LBS	
K11.780LX			L835mm / 32.87" SE 16.7KG / 36.8LBS			
K11.780H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

KETEC NEW PRODUCTS

K11.514

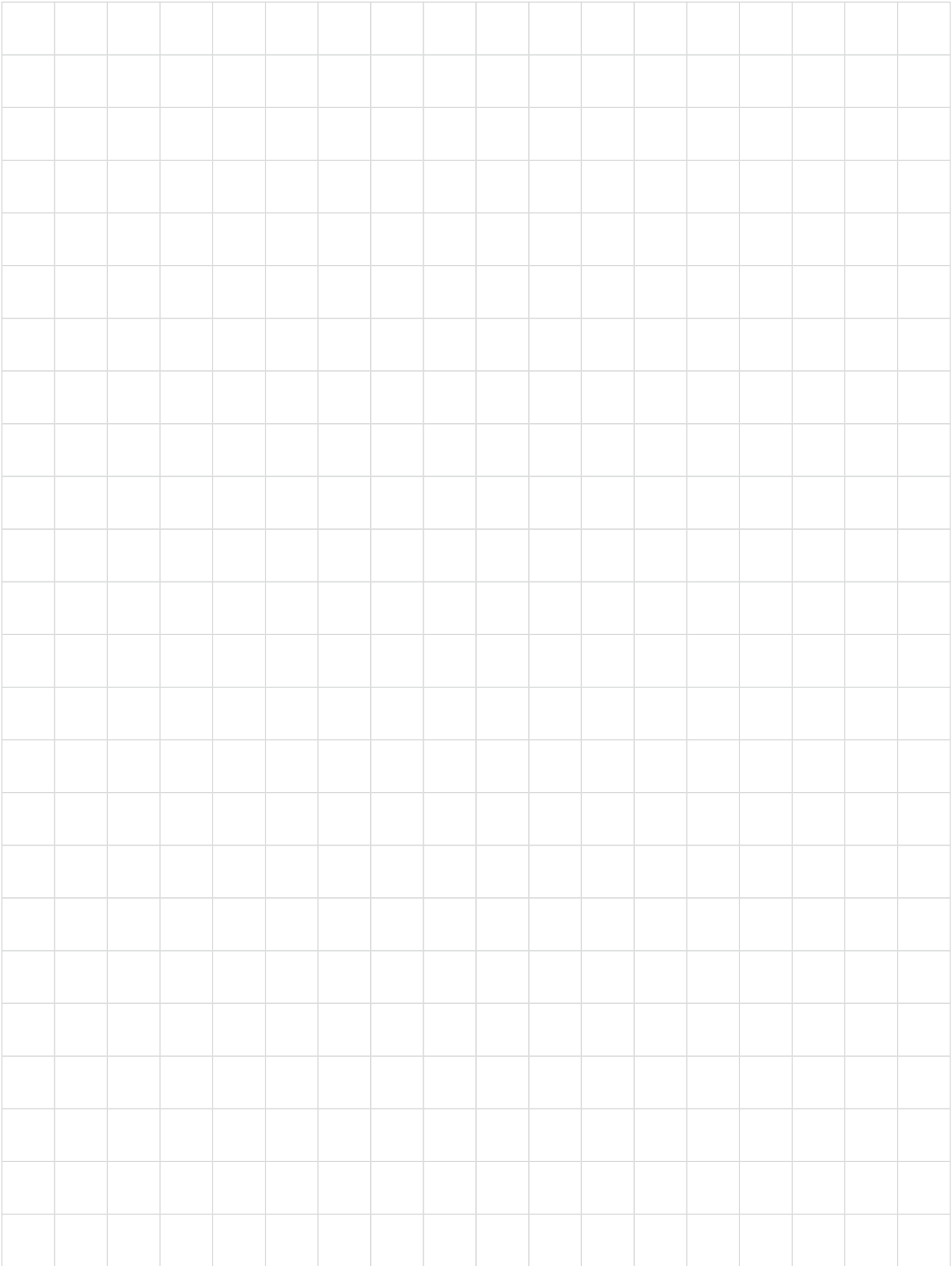
KETEC NEW PRODUCTS

K11.530



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.514L	30°	0.6	51T/M 500KN/M		L835mm / 32.87" 13.2KG / 29.1LBS	HRC 52-60
K11.514S					L415mm / 16.34" 6.6KG / 14.6LBS	
K11.514LX						
K11.514H						
CUSTOMIZABLE			HORN 15T/M 147KN/M		L835mm / 32.87" SE 12.1KG / 26.7LBS	
					HORN L200mm / 7.87" 1KG / 2.2LBS	

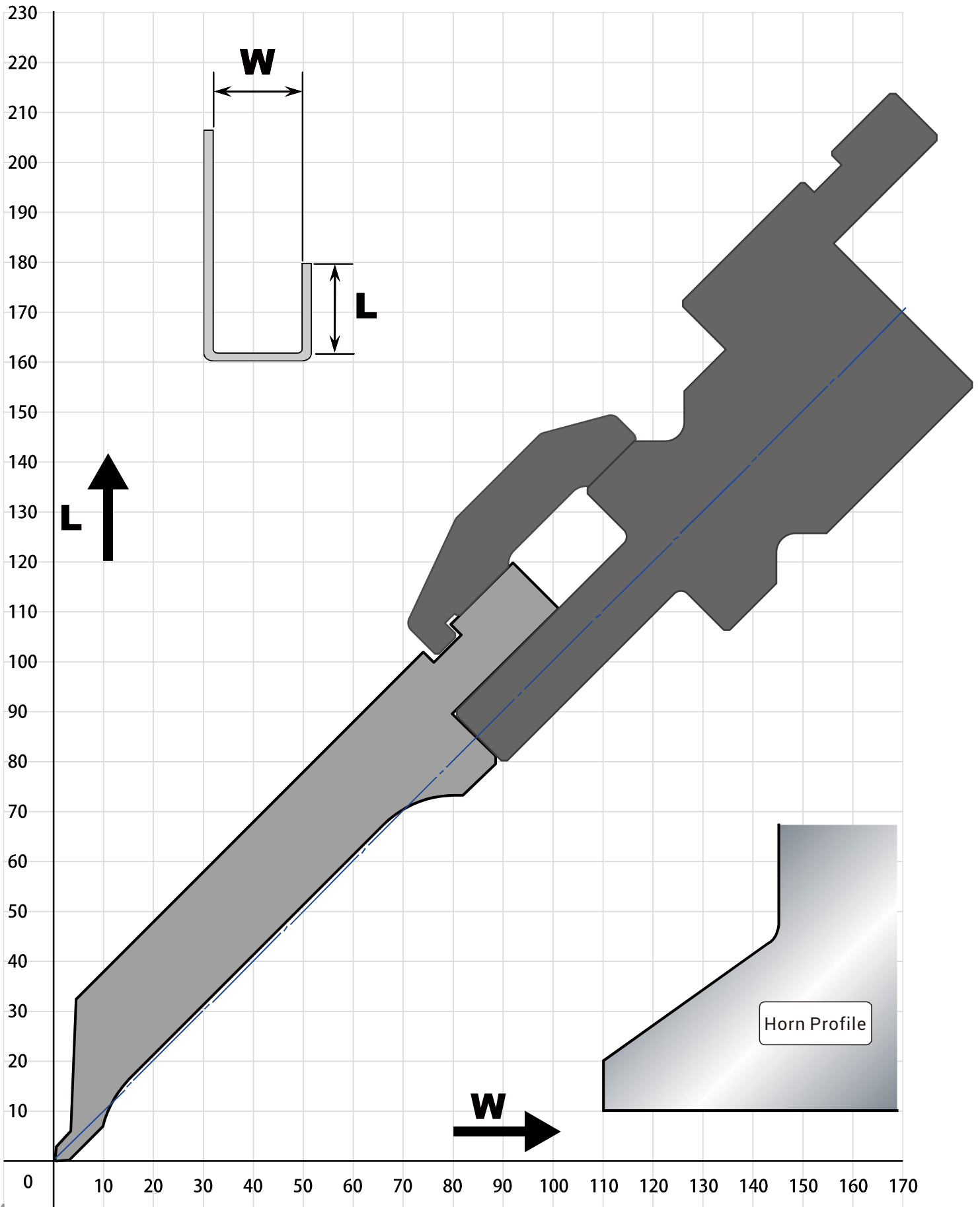
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.530L	30°	5.0	102T/M 1000KN/M		L835mm / 32.87" 17KG / 34.5LBS	HRC 52-60
K11.530S					L415mm / 16.34" 8.5KG / 18.7LBS	
K11.530LX			L835mm / 32.87" SE 15.6KG / 34.4LBS			
K11.530H						
CUSTOMIZABLE			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	

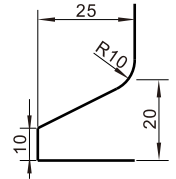
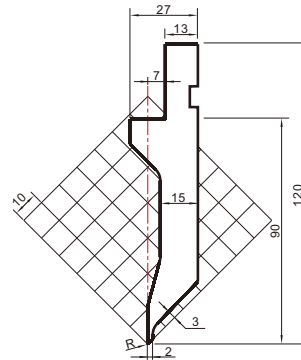
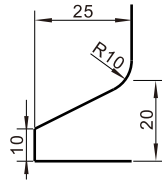
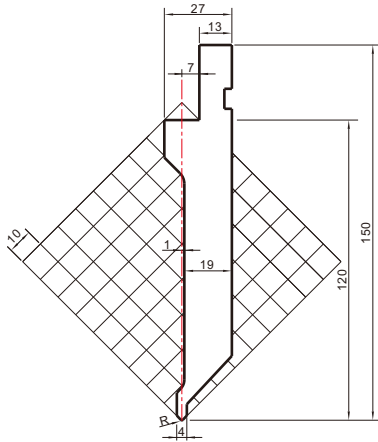




FIXED HEIGHT BURRING PUNCHES

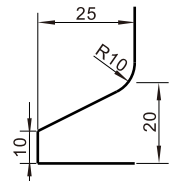
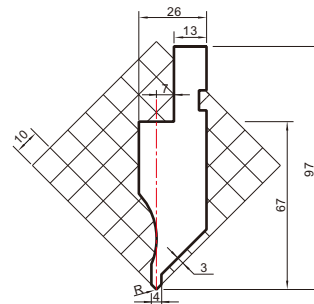
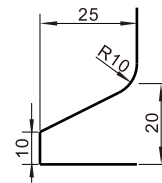
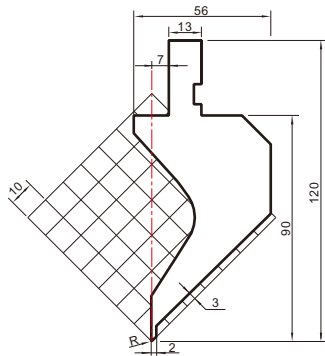
BURRING PUNCH PROFILE





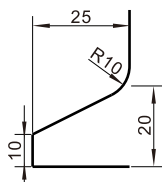
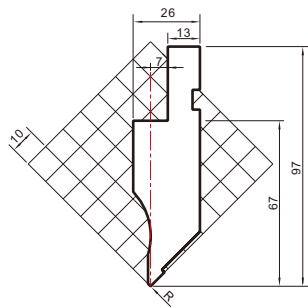
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
A050L	86°	0.2 & 0.6	40T/M 392KN/M	4	L835mm / 32.87" 19KG / 41.9LBS	HRC 52-60
A050S					L415mm / 16.34" 9.7KG / 21.4LBS	
A050LX			L835mm / 32.87" SE 18KG / 39.7LBS			
A050H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K0047L	88°	0.2	40T/M 392KN/M	2	L835mm / 32.87" 13KG / 28.7LBS	HRC 52-60
K0047S					L415mm / 16.34" 6.7KG / 14.8LBS	
K0047LX			L835mm / 32.87" SE 12.7KG / 28.0LBS			
K0047H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

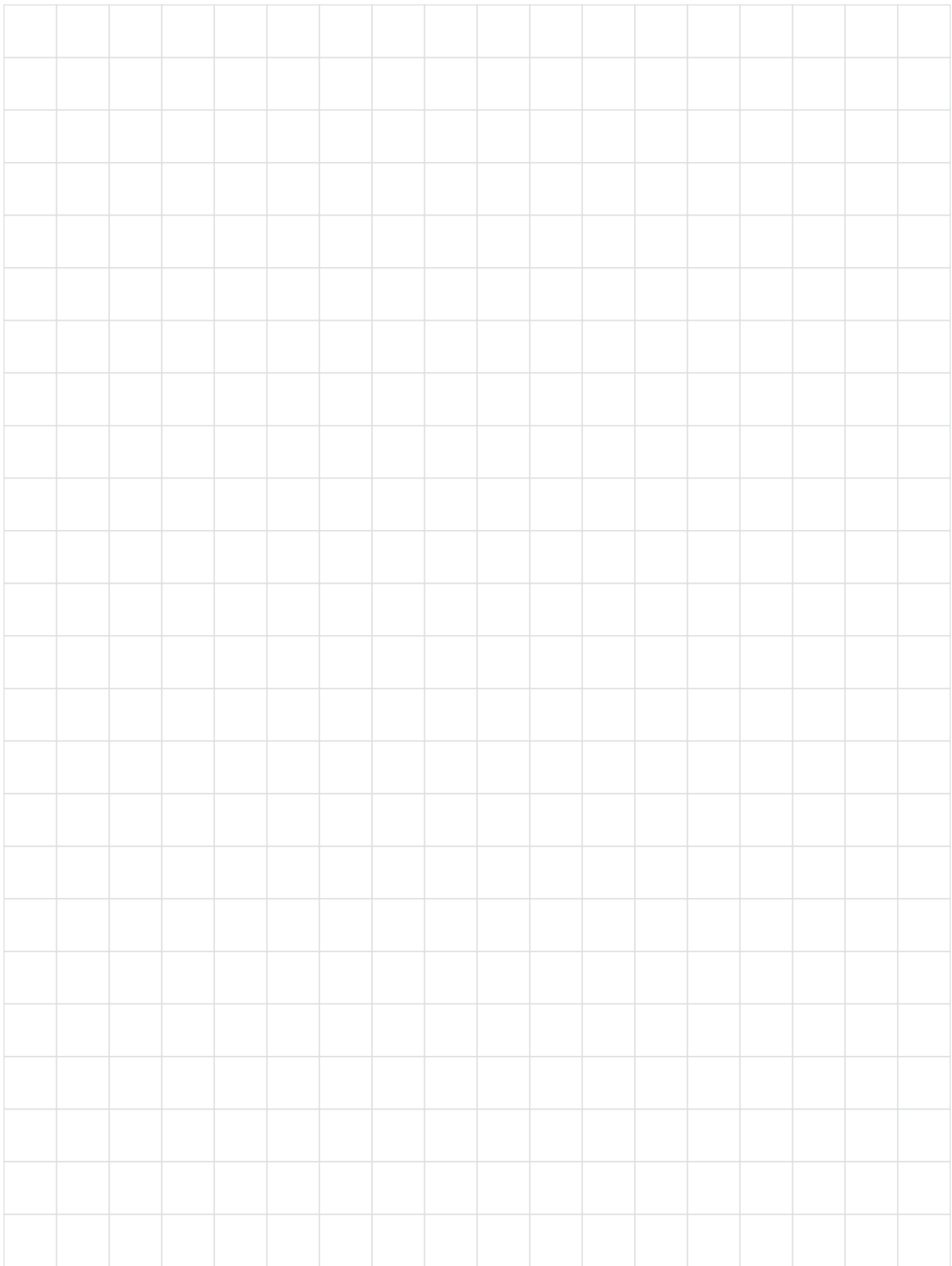


Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K4527L	88°	0.2	40T/M 392KN/M	2	L835mm / 32.87" 21KG / 46.3LBS	HRC 52-60
K4527S					L415mm / 16.34" 10.5KG / 23.1LBS	
K4527LX			L835mm / 32.87" SE 19.6KG / 43.2LBS			
K4527H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K0048L	88°	0.2 & 0.6	40T/M 392KN/M	4	L835mm / 32.87" 12.2KG / 26.9LBS	HRC 52-60
K0048S					L415mm / 16.34" 6.2KG / 13.7LBS	
K0048LX			L835mm / 32.87" SE 11.5KG / 25.4LBS			
K0048H			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE						



Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness	
K0049L	88°	0.6	80T/M 784KN/M		L835mm / 32.87" 12.2KG / 26.9LBS	HRC 52-60	
K0049S					L415mm / 16.34" 6.2KG 13.7LBS		
K0049LX			HORN 15T/M 147KN/M		L835mm / 32.87" SE 11.5KG / 25.4LBS		
K0049H					HORN L200mm / 7.87" 1KG / 2.2LBS		
CUSTOMIZABLE							





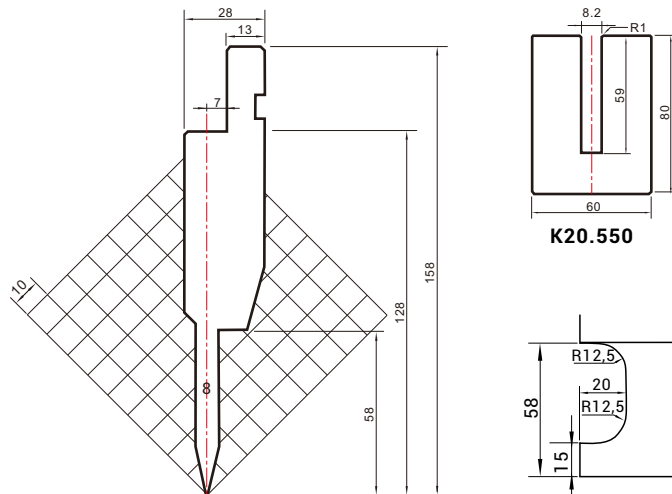
HEMMING PUNCHES

HEMMING PUNCH PROFILE



KETEC NEW PRODUCTS

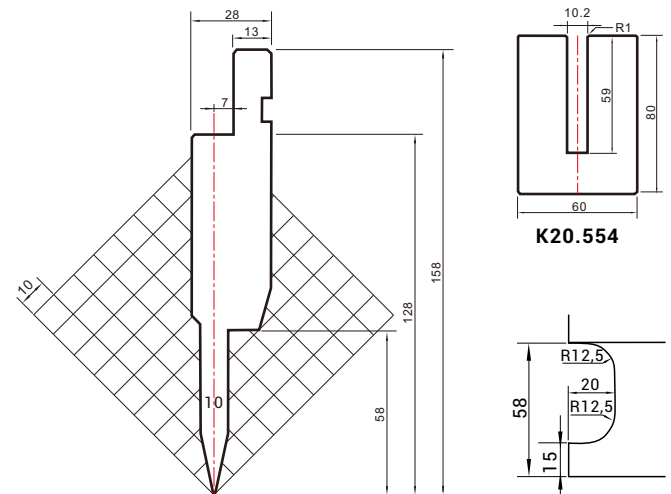
K11.550



K20.550

KETEC NEW PRODUCTS

K11.554



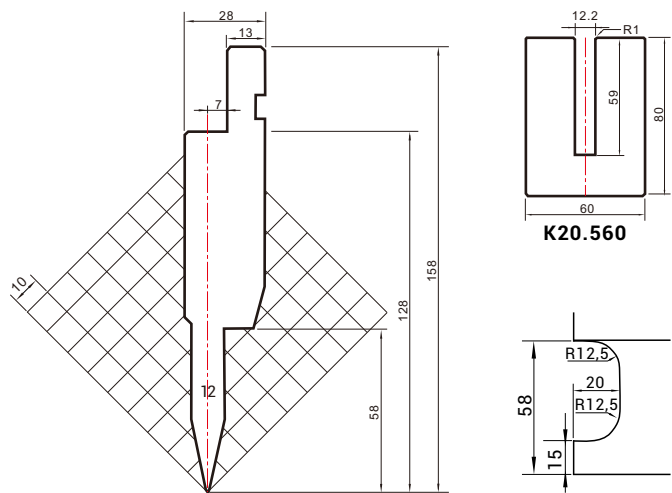
K20.554

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.550L	24°	0.6	81.6T/M 800KN/M	8	L835mm / 32.87" 17.3KG / 38.1LBS	HRC 52-60
K11.550S					L415mm / 16.34" 8.6KG / 19.0LBS	
K11.550LX						
K11.550H						
CUSTOMIZABLE			HORN 15T/M 147KN/M		L835mm / 32.87" SE 16.1KG / 35.5LBS	
					HORN L200mm / 7.87" 1KG / 2.2LBS	

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.554L	24°	0.6	81.6T/M 800KN/M	10	L835mm / 32.87" 18.1KG / 39.9LBS	HRC 52-60
K11.554S					L415mm / 16.34" 9KG / 19.8LBS	
K11.554LX					L835mm / 32.87" SE 16.8KG / 37.0LBS	
K11.554H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

KETEC NEW PRODUCTS

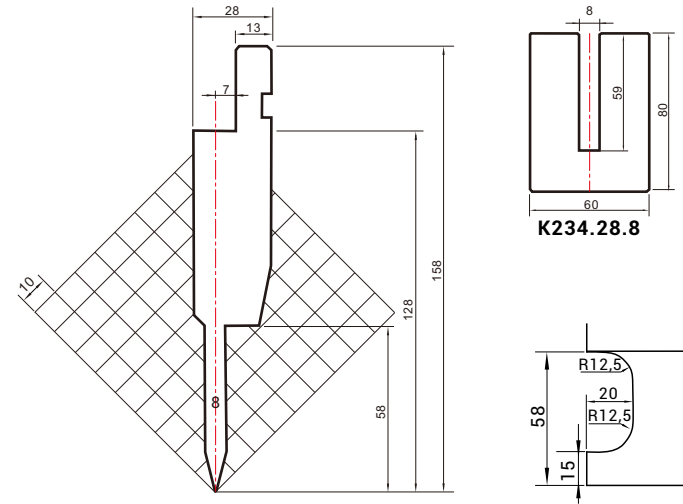
K11.560



K20.560

KETEC NEW PRODUCTS

K134.28.8



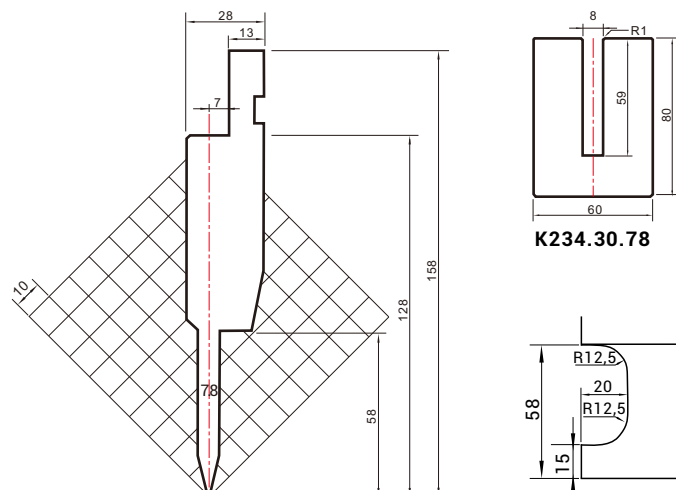
K234.28.8

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K11.560L	24°	0.6	81.6T/M 800KN/M	12	L835mm / 32.87" 18.6KG / 41.0LBS	HRC 52-60
K11.560S					L415mm / 16.34" 9.2KG / 20.3LBS	
K11.560LX			L835mm / 32.87" SE 17.3KG / 38.1LBS			
K11.560H					HORN L200mm / 7.87" 1KG / 2.2LBS	
CUSTOMIZABLE			HORN 15T/M 147KN/M			

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K134.28.8L	28°	0.6	81.6T/M 800KN/M	8	L835mm / 32.87" 17.6KG / 38.8LBS	HRC 52-60
K134.28.8S					L415mm / 16.34" 8.4KG / 18.5LBS	
K134.28.8LX			L835mm / 32.87" SE 16.2KG / 35.7LBS			
K134.28.8H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

KETEC NEW PRODUCTS

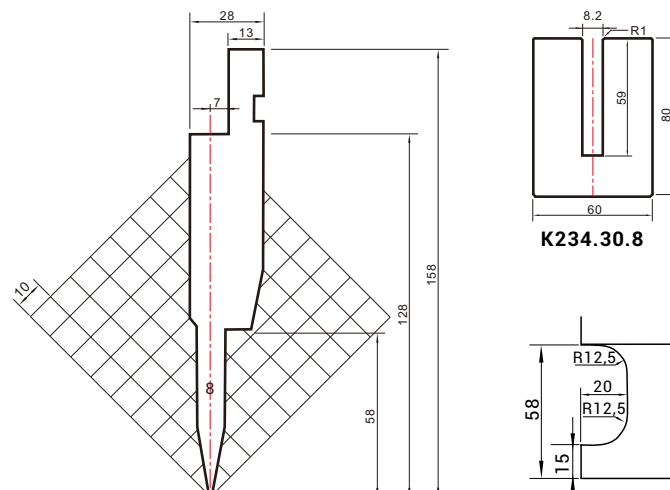
K134.30.78



K234.30.78

KETEC NEW PRODUCTS

K134.30.8



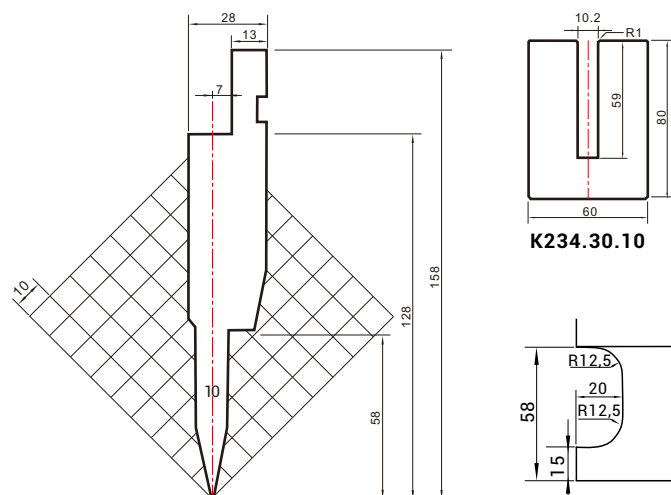
K234.30.8

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K134.30.78L	30°	1.0	81.6T/M 800KN/M	7.8	L835mm / 32.87" 17.9KG / 39.5LBS	HRC 52-60
K134.30.78S					L415mm / 16.34" 9KG / 19.8LBS	
K134.30.78LX						
K134.30.78H			L835mm / 32.87" SE 15.8KG / 34.8LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M		HORN L200mm / 7.87" 1KG / 2.2LBS	

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K134.30.8L	30°	1.0	81.6T/M 800KN/M	8	L835mm / 32.87" 18.4KG / 40.6LBS	HRC 52-60
K134.30.8S					L415mm / 16.34" 9.3KG / 20.5LBS	
K134.30.8LX					L835mm / 32.87" SE 16.8KG / 37.0LBS	
K134.30.8H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

KETEC NEW PRODUCTS

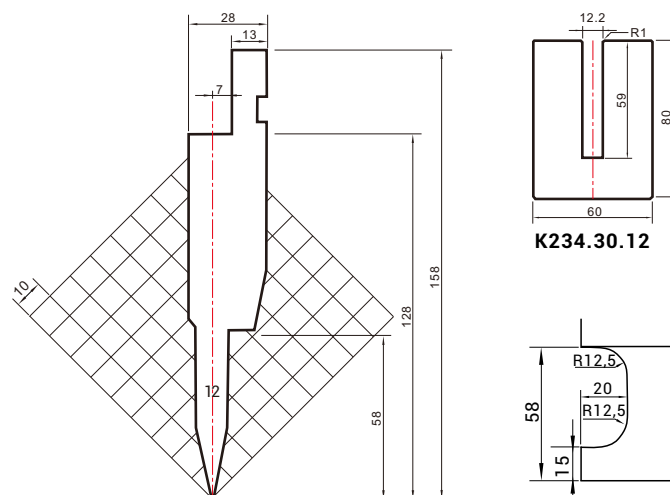
K134.30.10



K234.30.10

KETEC NEW PRODUCTS

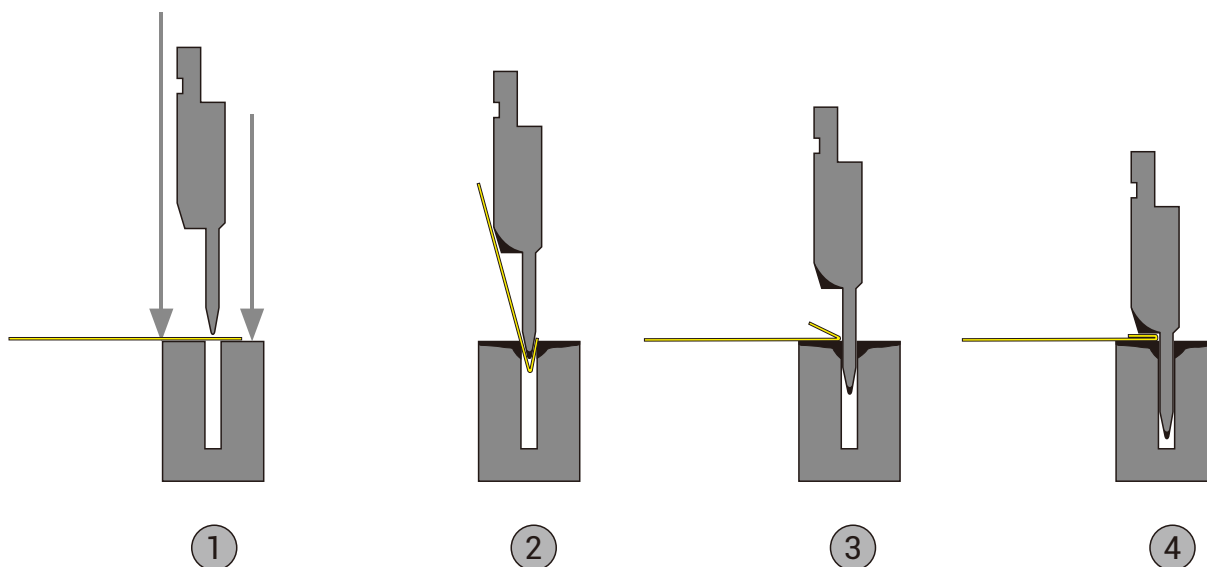
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K234.30.12

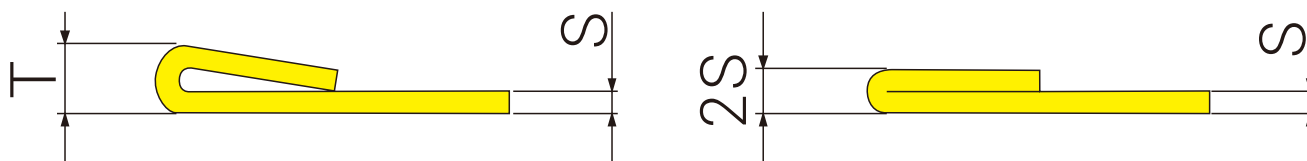
Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K134.30.10L	30°	1.0	81.6T/M 800KN/M	10	L835mm / 32.87" 18.6KG / 39.7LBS	HRC 52-60
K134.30.10S					L415mm / 16.34" 9.6KG / 21.2LBS	
K134.30.10LX			L835mm / 32.87" SE 17KG / 37.5LBS			
K134.30.10H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			

Code.No.	Angle	Radius	Max.Ton	Width	Length & Weight	Hardness
K134.30.12L	30°	1.0	81.6T/M 800KN/M	12	L835mm / 32.87" 19KG / 41.9LBS	HRC 52-60
K134.30.12S					L415mm / 16.34" 9.8KG / 21.6LBS	
K134.30.12LX					L835mm / 32.87" SE 17KG / 37.5LBS	
K134.30.12H			HORN L200mm / 7.87" 1KG / 2.2LBS			
CUSTOMIZABLE			HORN 15T/M 147KN/M			



Material: $R_m = 700 \text{ N/mm}^2$, stainless steel

S(mm)	(t/m)	T(mm)	(t/m)	2S(mm)
0,6	15	3,0	35	1,2
0,8	20	3,0	50	1,6
1,0	25	3,5	60	2,0
1,25	26	3,5	80	2,5
1,5	38	4,6	95	3,0
2,0	50	5,5	130	4,0

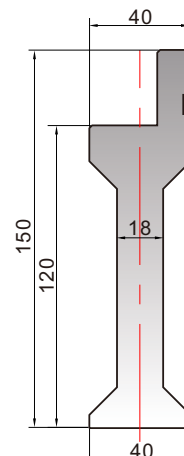
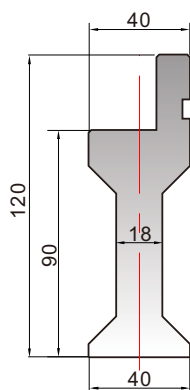




FLATTENING PUNCHES

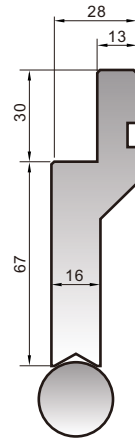
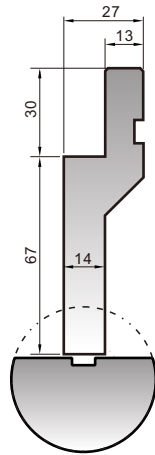
FLATTENING TOOLS





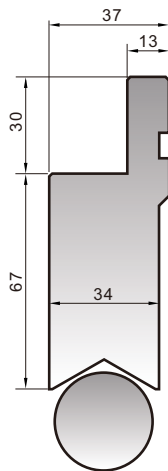
Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
K220XL	100T/M 981KN/M	90	40	L835mm 32.87"	20KG 44.1LBS	HRC 52-60
K220XS				L415mm 16.34"	10.2KG 22.5LBS	
K220XLX						
CUSTOMIZABLE					L835mm SE 32.87"	

Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
K240L	100T/M 981KN/M	90	40	L835mm 32.87"	23.4KG 44.1LBS	HRC 52-60
K240S				L415mm 16.34"	11.9KG 22.5LBS	
K240LX						
CUSTOMIZABLE				L835mm SE 32.87"	23.4KG 44.1LBS	

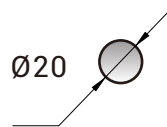


Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
K015-14L	100T/M 981KN/M	97	14	L830mm 32.68"	9KG 19.8LBS	HRC 52-60
K015-14S						
CUSTOMIZABLE					L410mm 16.14"	

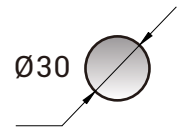
Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
K015-16L	100T/M 981KN/M	97	16	L830mm 32.68"	9.4KG 20.7LBS	HRC 52-60
K015-16S						
CUSTOMIZABLE				L410mm 16.14"	4.8KG 10.6LBS	



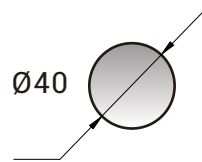
Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
K015-34L	100T/M 981KN/M	97	34	L830mm 32.68"	14.1KG 31.1LBS	HRC 52-60
K015-34S						
CUSTOMIZABLE					L410mm 16.14"	



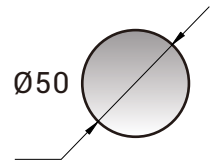
Length	ARC	Weight	Max. TON
L835mm 32.87"	R10	2KG 4.4LBS	100T/M 981KN/M
L415mm 16.34"		1KG 2.2LBS	



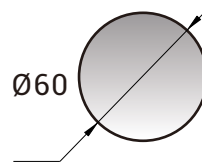
Length	ARC	Weight	Max. TON
L835mm 32.87"	R15	4.5KG 9.9LBS	100T/M 981KN/M
L415mm 16.34"		2.3KG 5.1LBS	



Length	ARC	Weight	Max. TON
L835mm 32.87"	R20	9.35KG 20.6LBS	100T/M 981KN/M
L415mm 16.34"		4.8KG 10.6LBS	



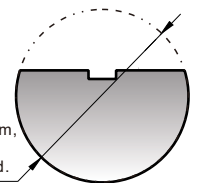
Length	ARC	Weight	Max. TON
L835mm 32.87"	R25	13.2KG 29.1LBS	100T/M 981KN/M
L415mm 16.34"		6.7KG 14.8LBS	



Length	ARC	Weight	Max. TON
L835mm 32.87"	R30	19.6KG 43.2LBS	100T/M 981KN/M
L415mm 16.34"		9.4KG 20.7LBS	

Ø80

When the bending arc radius $R > 30mm$, this structure should be selected.

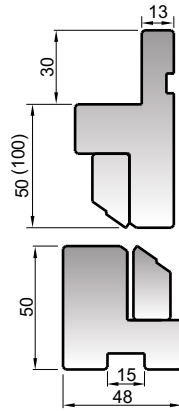


Length	ARC	Weight	Max. TON
L835mm 32.87"	R40	25KG 55.1LBS	100T/M 981KN/M
L415mm 16.34"		12.6KG 27.8LBS	



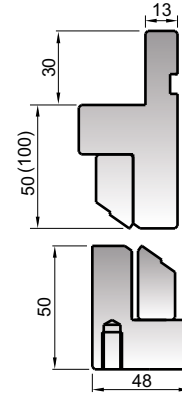
ADJUSTABLE PUNCH W/ RAIL DIE

S20



ADJUSTABLE PUNCH W/ BOLT DIE

LS 20



Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
S20L	60T/M 588KN/M	50 & 100		L835mm 32.87"	15.15KG 33.4LBS	HRC 52-60
S20S				L415mm 16.34"	7.7KG 17.0LBS	
S20LX						
CUSTOMIZABLE				L835mm SE 32.87"	15.15KG 33.4LBS	

Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
LS20L	60T/M 588KN/M	50 & 100		L835mm 32.87"	15.15KG 33.4LBS	HRC 52-60
LS20S				L415mm 16.34"	7.7KG 17.0LBS	
LS20LX						
CUSTOMIZABLE				L835mm SE 32.87"	15.15KG 33.4LBS	

S20L	60T/M 588KN/M	50	48	L835mm 32.87"	14KG 30.9LBS	HRC 52-60
S20S				L415mm 16.34"	7.2KG 15.9LBS	
S20LX				L835mm SE 32.87"	14KG 30.9LBS	
CUSTOMIZABLE						

S20L	60T/M 588KN/M	50	48	L835mm 32.87"	11.5KG 25.4LBS	HRC 52-60
S20S				L415mm 16.34"	5.9KG 13.0LBS	
S20LX						
CUSTOMIZABLE				L835mm SE 32.87"	10.2KG 22.5LBS	

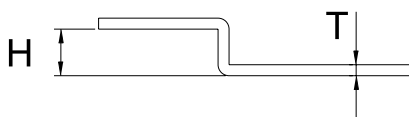
SOLID CUSTOMIZED OFFSET TOOL

SOLID



Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
SOLID-L	60T/M 588KN/M	CUSTOMIZED		L835mm 32.87"		HRC 52-60
SOLID-S				L415mm 16.34"		
SOLID-LX						
CUSTOMIZABLE				L835mm SE 32.87"		

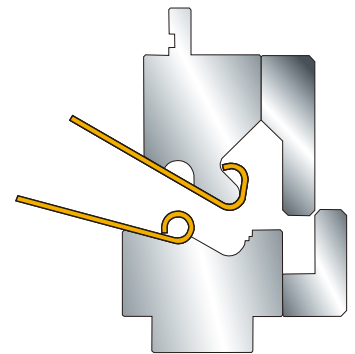
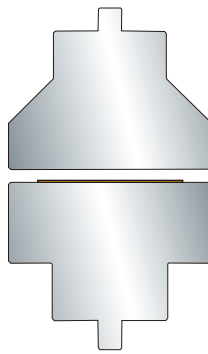
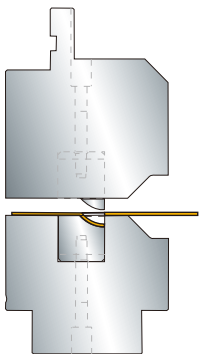
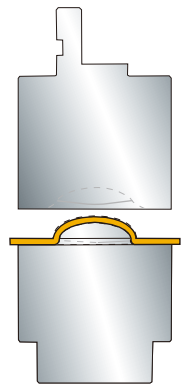
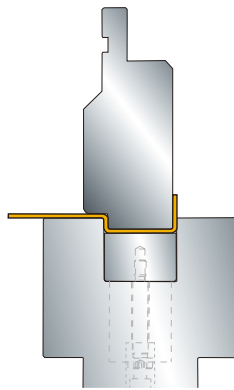
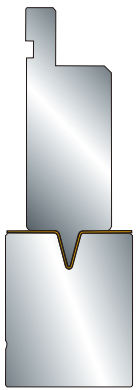
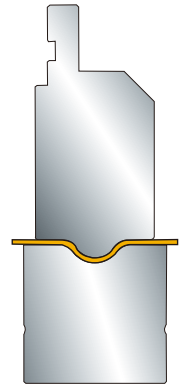
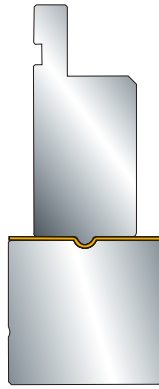
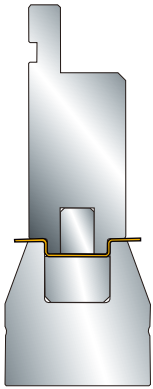
SOLID-L	60T/M 588KN/M	CUSTOMIZED	L835mm 32.87"		HRC 52-60
SOLID-S			L415mm 16.34"		
SOLID-LX			L835mm SE 32.87"		
CUSTOMIZABLE					

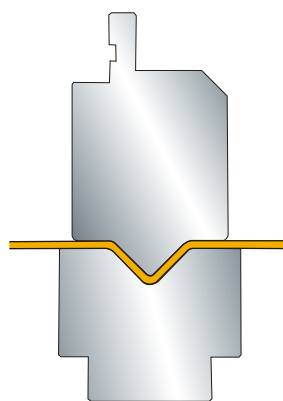
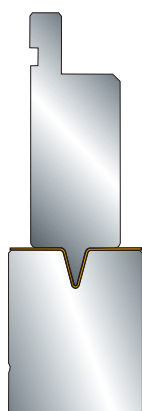
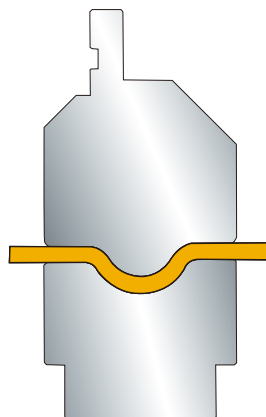
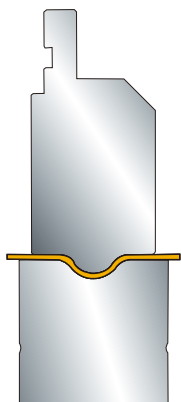


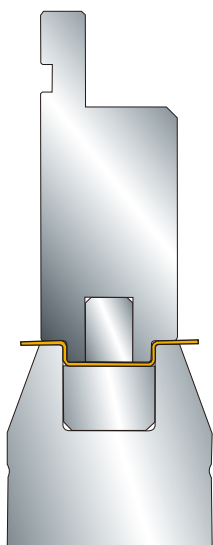
OFFSET HEIGHT: $H \leq 5 T$

OFFSET BENDING PRESS TABLE

			Max.TON
Thickness (mm)	H=1T	H=2T	
0.6	8	10	
0.8	13	17	
1.0	18	22	
1.2	25	30	
1.6	43	47	

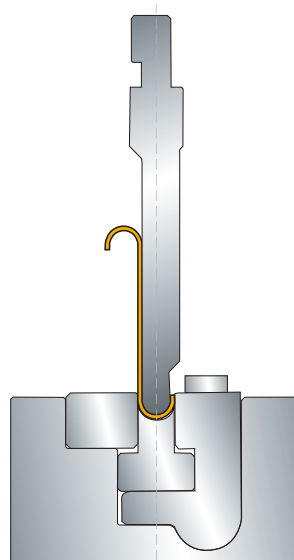






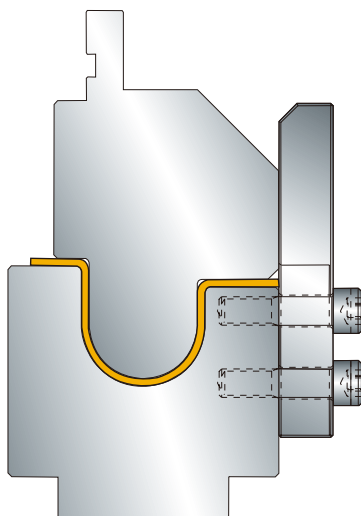
HT1-HAT CHANNEL

Provides straight wall or angled wall hat channel bending in one stroke
Spring back allowance built in.



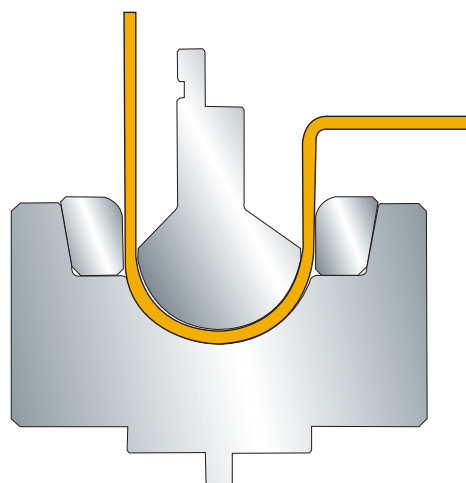
UC1-U CHANNEL

Recommended for applications where considerable spring back is encountered.
Secondary flattening operations may be required.



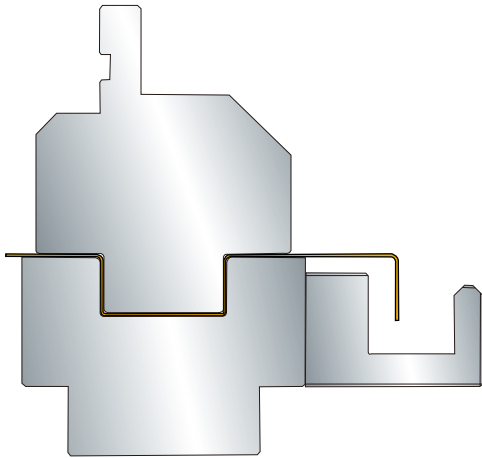
UC2-U CHANNEL

Recommended for applications where considerable spring back is encountered.
Secondary flattening operations may be required.

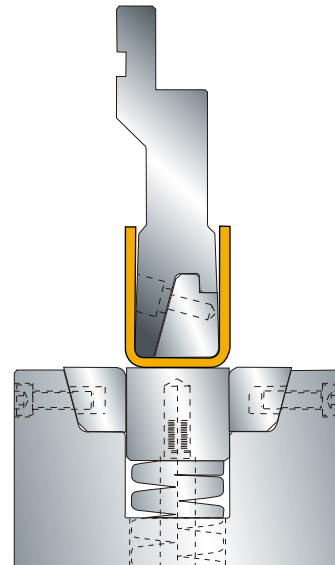


UC3-U CHANNEL

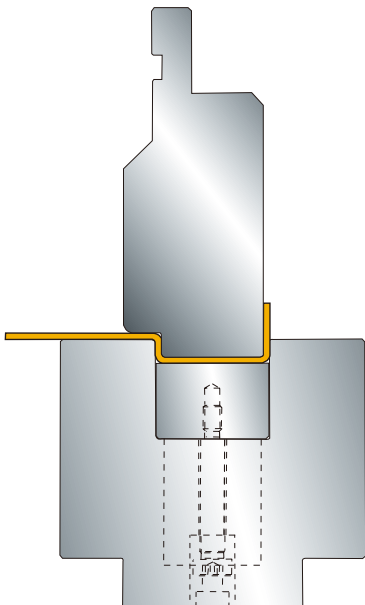
Recommended for applications where considerable spring back is encountered.
Secondary flattening operations may be required.

**C1- CHANNEL**

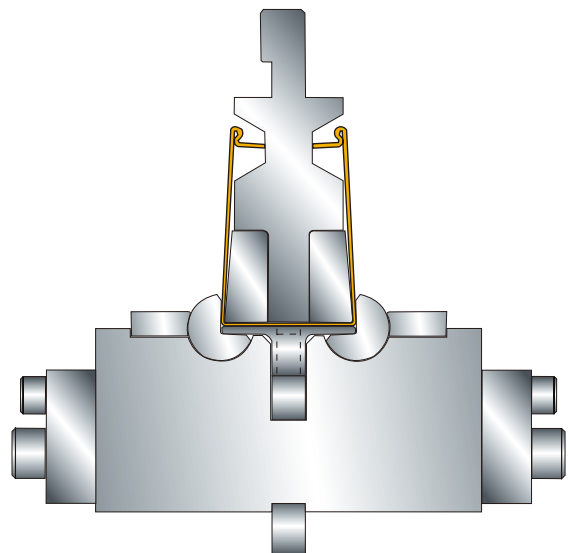
For deep channels when the channel bottom needs to remain flat.

**C2- CHANNEL**

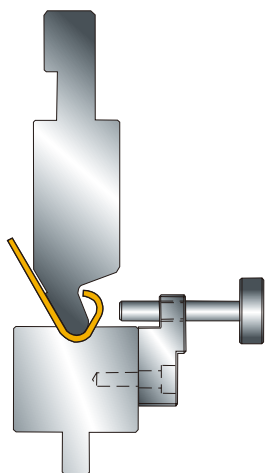
For deep channels when the channel bottom needs to remain flat.

**C3- CHANNEL**

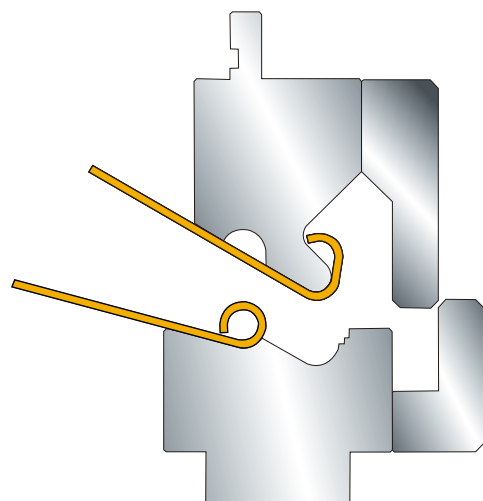
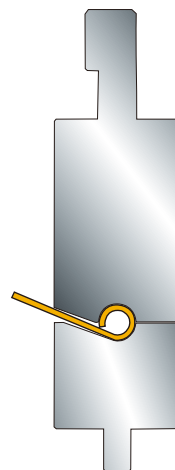
For deep channels when the channel bottom needs to remain flat.

**C4- ROTARY BEND CHANNEL**

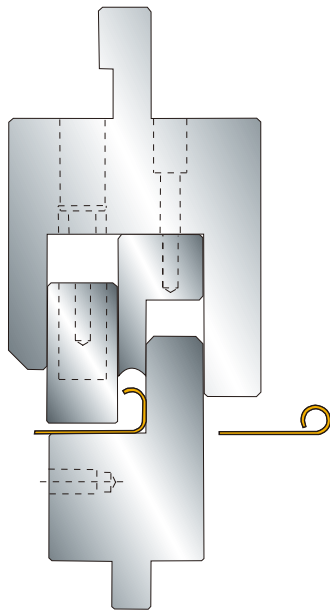
For deep channels when the channel bottom needs to remain flat.

**CL1-CURL TOOL SET**

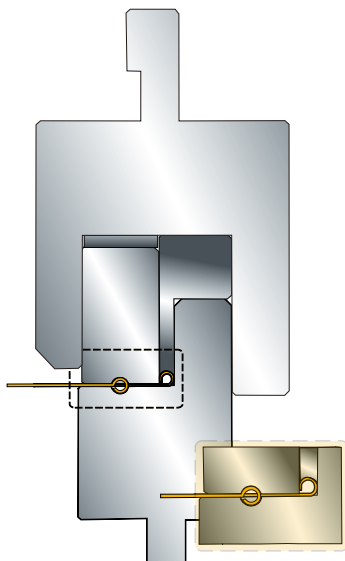
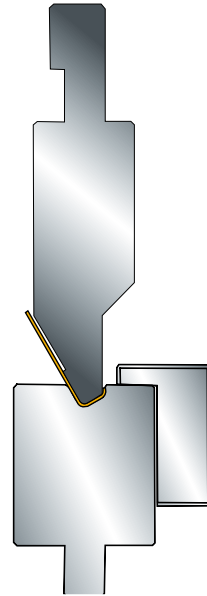
Two tool sets, three machine strokes.

**CL2-CURL TOOL SET**

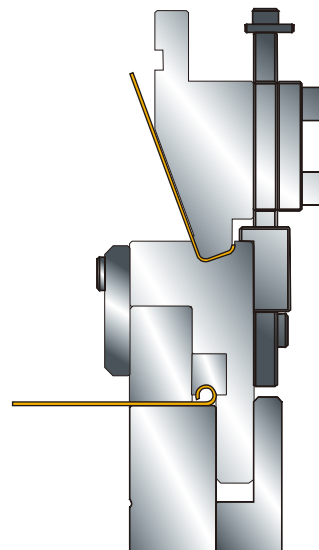
Typically used for thick materials
and large diameter curls.
One tool set, three machine strokes.

**CL3-CURL**

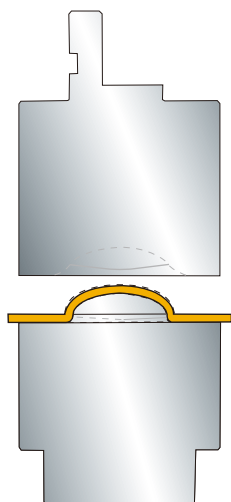
Used for hinges and corner beading.
Two tool sets, two machine strokes.

**CL4-CENTER CURL APPLICATION**

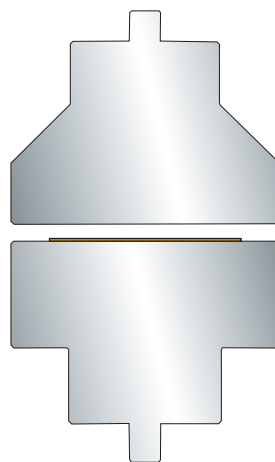
Two tool sets, three machine strokes.

**CL5-DOUBLE DECKER TOOL SET**

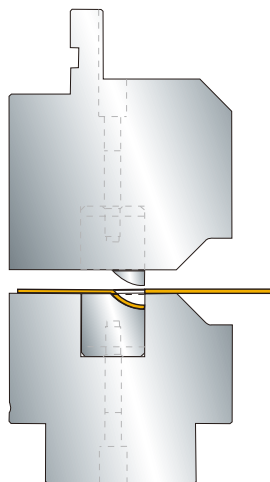
Used for hinges and corner beading.
One tool set, two machine strokes.

**EM1-EMBOSS**

A variety of raised emboss and chisel point emboss sets are available.

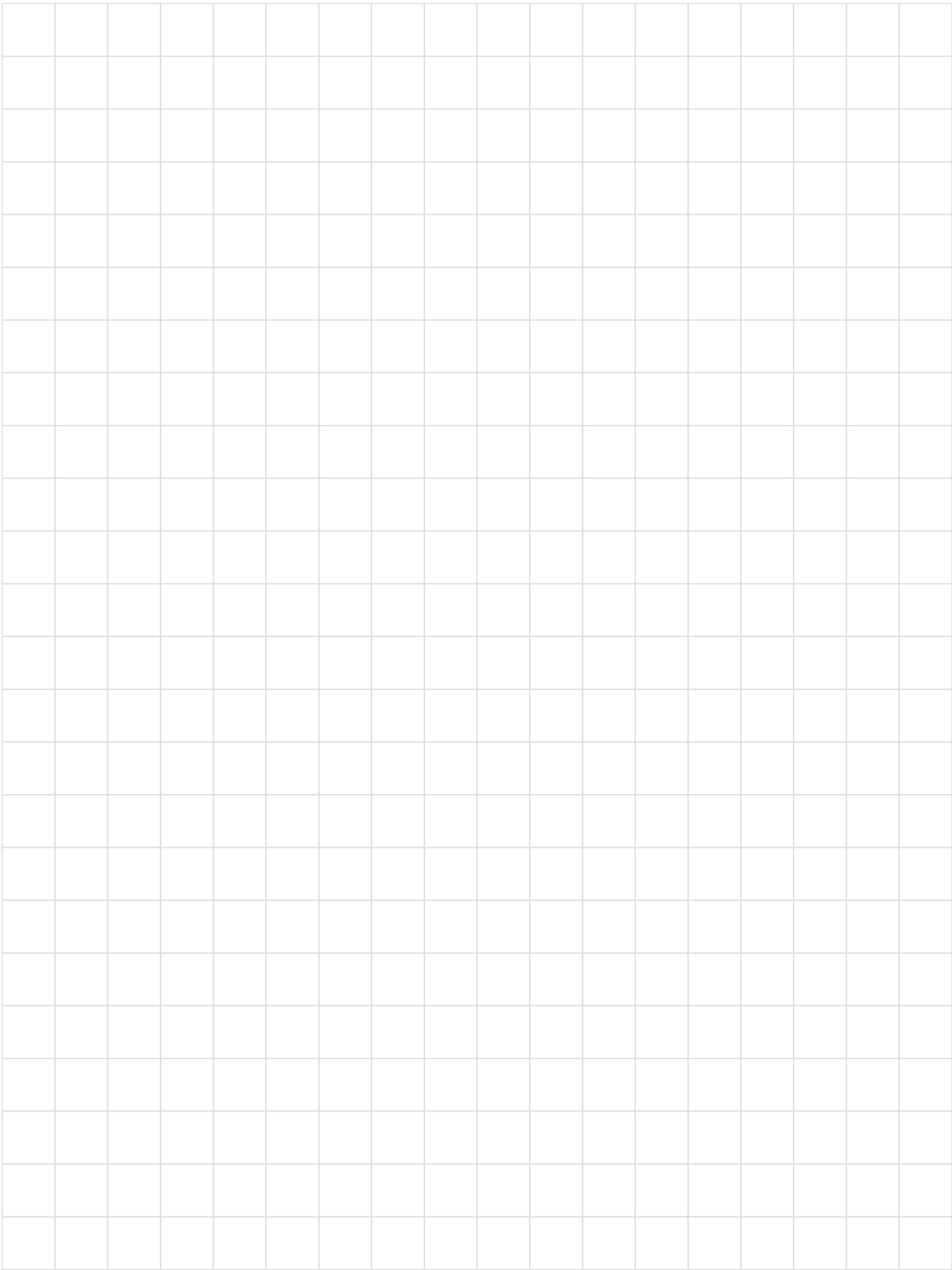
**LG - LOGO EMBOSS**

Make your logo in press brake way.

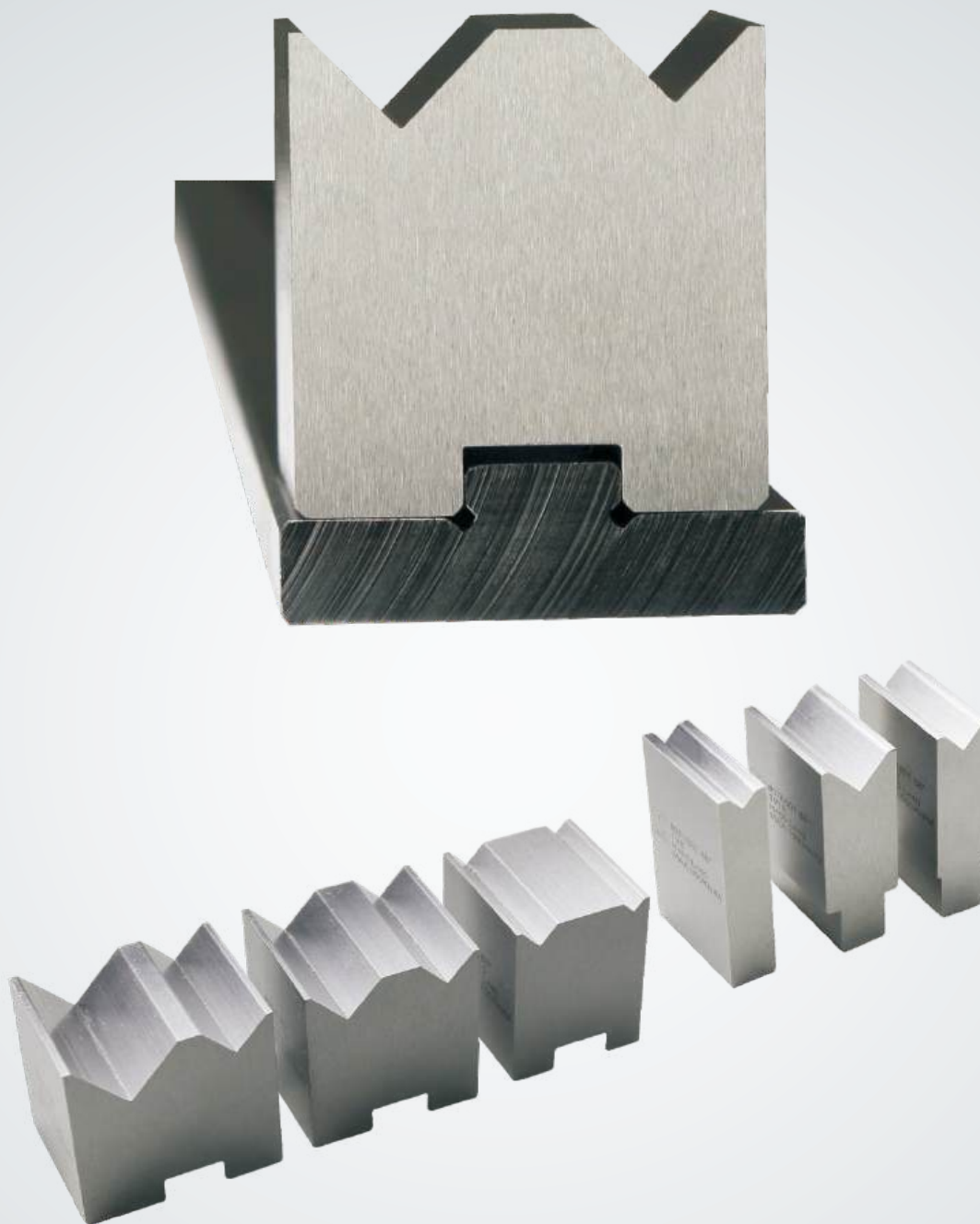
**LV - LOUVER**

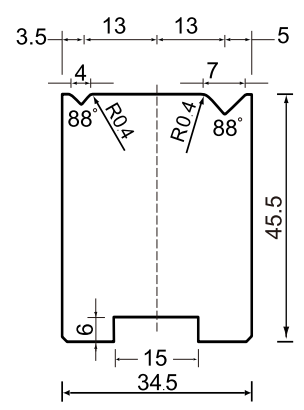
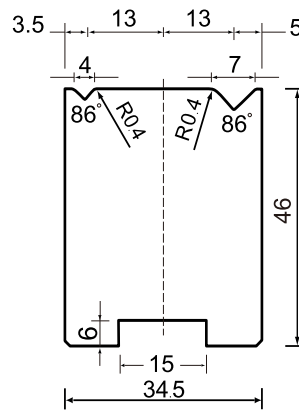
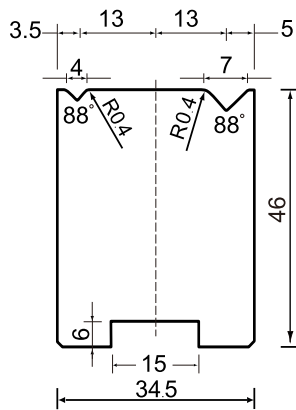
Multiple louver configurations are available.
For louver forming, sheet must be pre-slit.





AMADA-EUROPEAN STYLE DIES

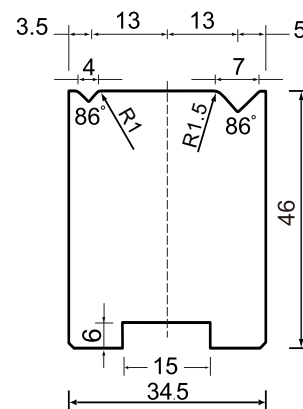
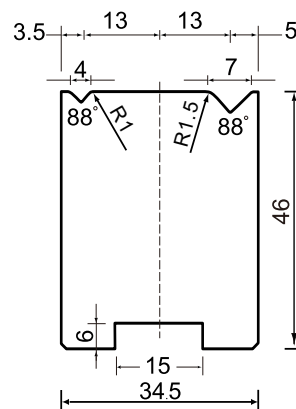




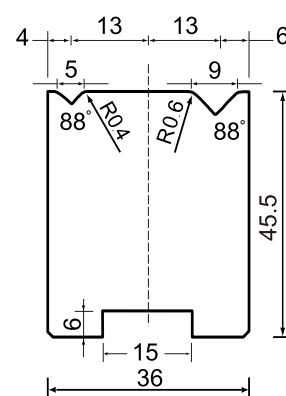
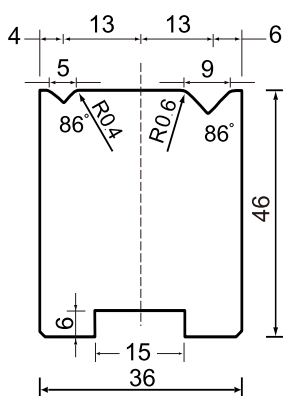
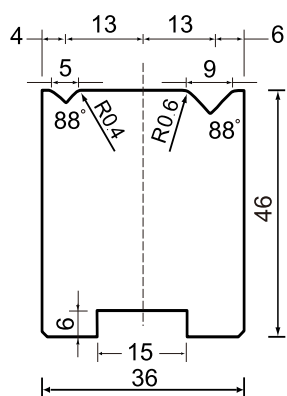
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K501A	88°	H=46	V4V7	60T/M 588KN/M	HRC 52-60	11.1KG 24.5LBS	5.7KG 12.6LBS	11.1KG 24.5LBS
K501B	86°							
K501C	88°	H=45.5						
CUSTOMIZABLE								

V4V7 LARGE SHOULDER RADIUS

K501



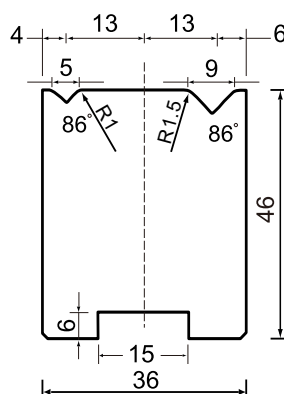
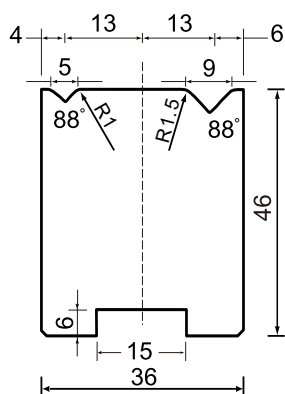
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K501D	88°	H=46	V4V7	60T/M 588KN/M	HRC 52-60	11.1KG 24.5LBS	5.7KG 12.6LBS	11.1KG 24.5LBS
K501E	86°							
CUSTOMIZABLE								



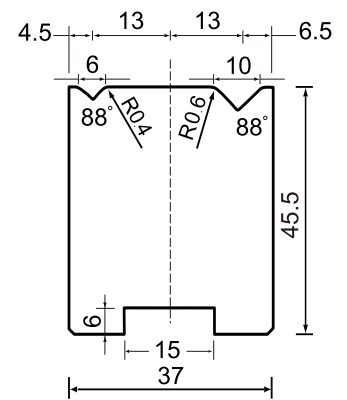
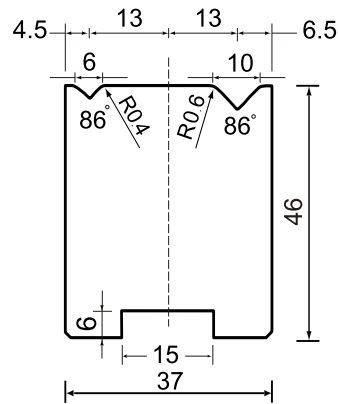
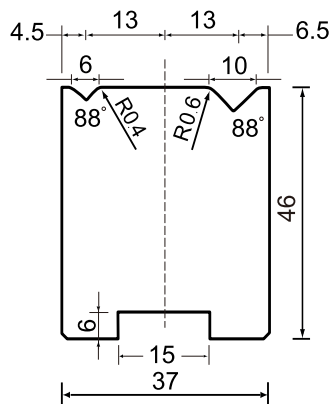
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K507A	88°	H=46	V5V9	70T/M 686KN/M	HRC 52-60	11.5KG 25.4LBS	5.9KG 13.0LBS	11.5KG 25.4LBS
K507B	86°							
K507C	88°	H=45.5						
CUSTOMIZABLE								

V5V9 LARGE SHOULDER RADIUS

K507



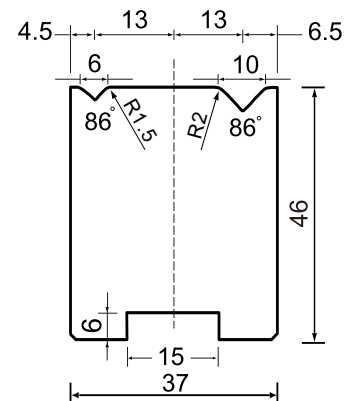
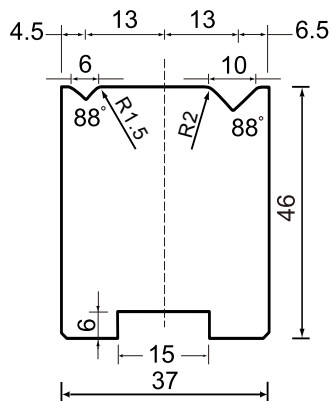
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K507D	88°	H=46	V5V9	70T/M 686KN/M	HRC 52-60	11.5KG 25.4LBS	5.9KG 13.0LBS	11.5KG 25.4LBS
K507E	86°							
CUSTOMIZABLE								



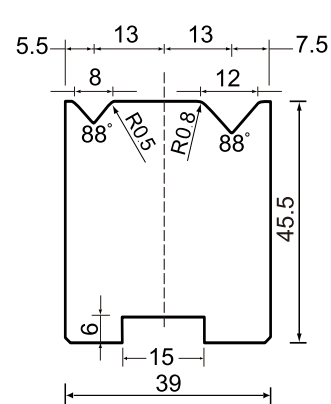
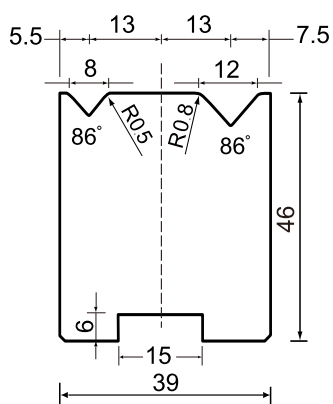
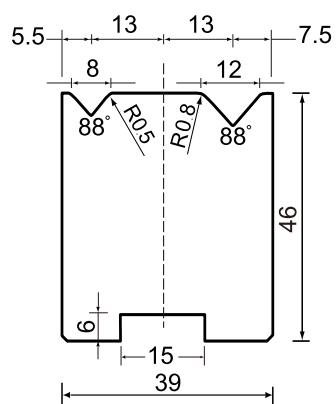
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K502A	88°	H=46	V6V10	70T/M 686KN/M	HRC 52-60	11.7KG 25.8LBS	6KG 13.2LBS	11.7KG 25.8LBS
K502B	86°							
K502C	88°	H=45.5						
CUSTOMIZABLE								

V6V10 LARGE SHOULDER RADIUS

K502



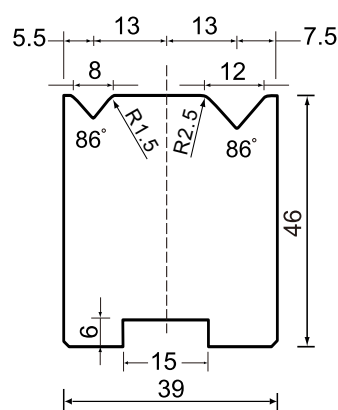
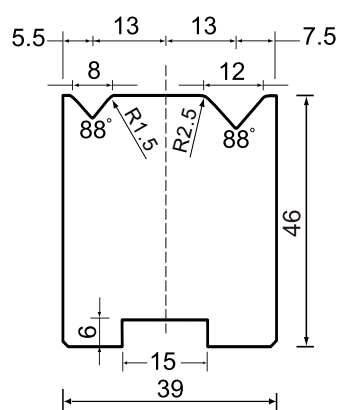
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K502D	88°	H=46	V6V10	70T/M 686KN/M	HRC 52-60	11.7KG 25.8LBS	6KG 13.2LBS	11.7KG 25.8LBS
K502E	86°							
CUSTOMIZABLE								



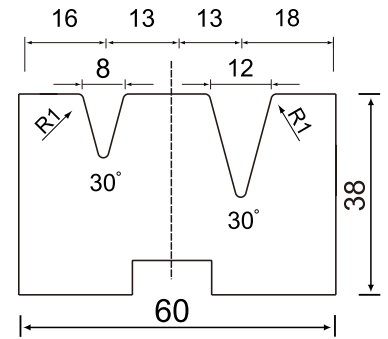
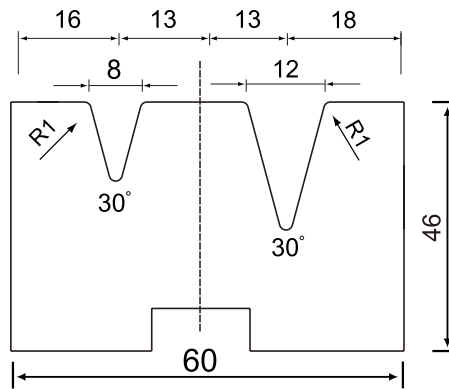
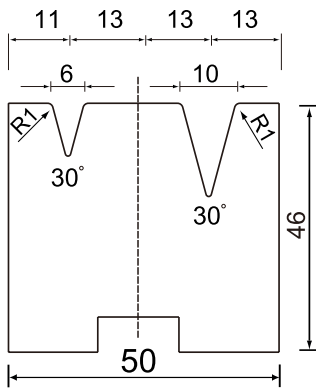
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K503A	88°	H=46	V8V12	70T/M 686KN/M	HRC 52-60	11.5KG 25.3LBS	6.2KG 13.7LBS	11.5KG 25.3LBS
K503B	86°							
K503C	88°	H=45.5						
CUSTOMIZABLE								

V8V12 LARGE SHOULDER RADIUS

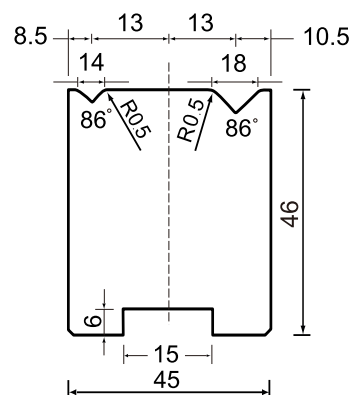
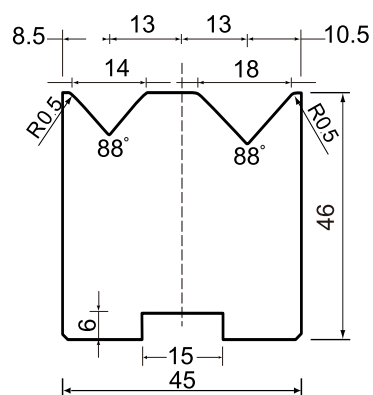
K503



Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K503D	88°	H=46	V8V12	70T/M 686KN/M	HRC 52-60	11.5KG 25.3LBS	6.2KG 13.7LBS	11.5KG 25.3LBS
K503E	86°							
CUSTOMIZABLE								



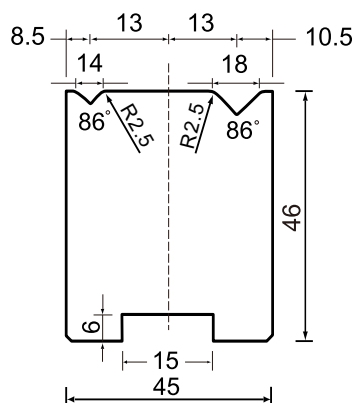
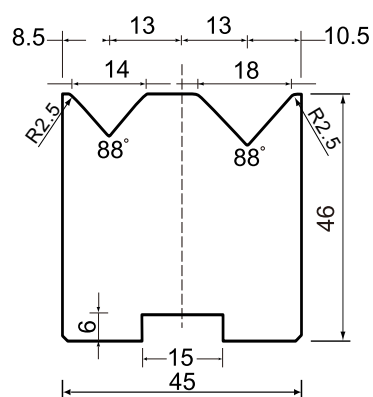
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K33706	30°	H=46	V6V10	26T/M 255KN/M	HRC 52-60	15.3KG 33.7LBS	7.8KG 17.2LBS	15.3KG 33.7LBS
K339A			V8V12	40T/M 392KN/M		16.7KG 36.8LBS	8.5KG 18.7LBS	16.7KG 36.8LBS
K339B		H=38				14.7KG 32.4LBS	7.5KG 16.5LBS	14.7KG 32.4LBS
CUSTOMIZABLE								



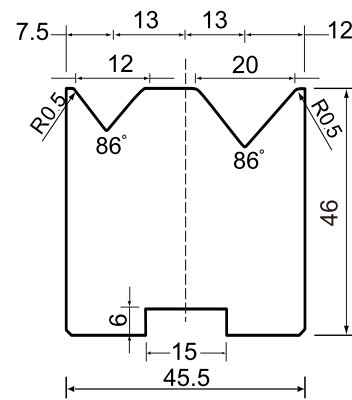
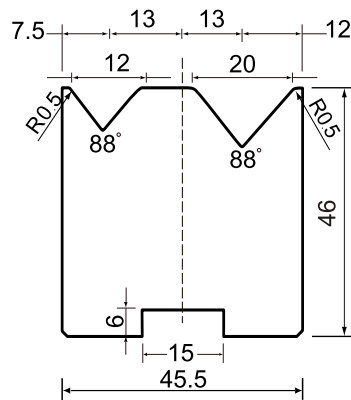
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K504A	88°	H=46	V14V18	100T/M 981KN/M	HRC 52-60	13.9KG 30.6LBS	7.1KG 15.6LBS	13.9KG 30.6LBS
K504B	86°							
CUSTOMIZABLE								

V14V18 LARGE SHOULDER RADIUS

K504



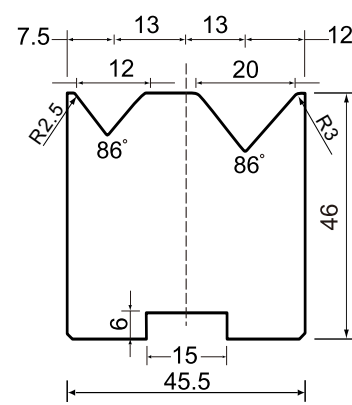
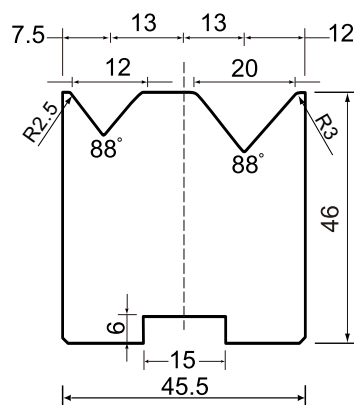
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K504C	88°	H=46	V14V18	100T/M 981KN/M	HRC 52-60	13.9KG 30.6LBS	7.1KG 15.6LBS	13.9KG 30.6LBS
K504D	86°							
CUSTOMIZABLE								



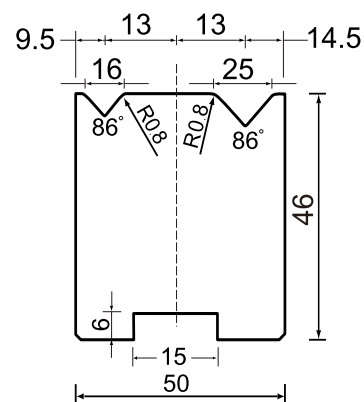
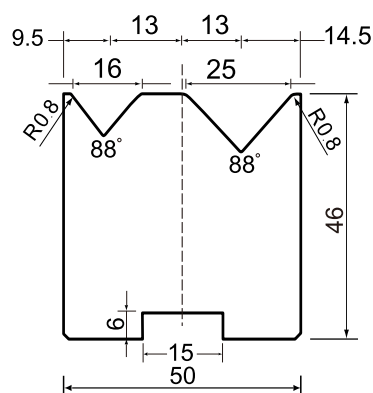
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K505A	88°	H=46	V12V20	100T/M 981KN/M	HRC 52-60	13.9KG 30.6LBS	7.1KG 15.6LBS	13.9KG 30.6LBS
K505B	86°							
CUSTOMIZABLE								

V12V20 LARGE SHOULDER RADIUS

K505



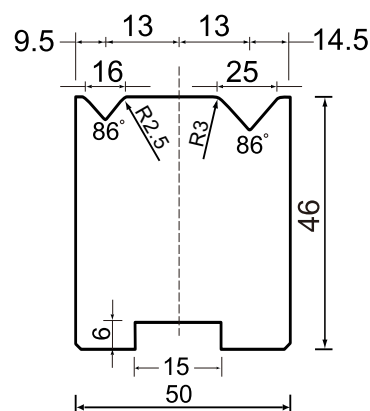
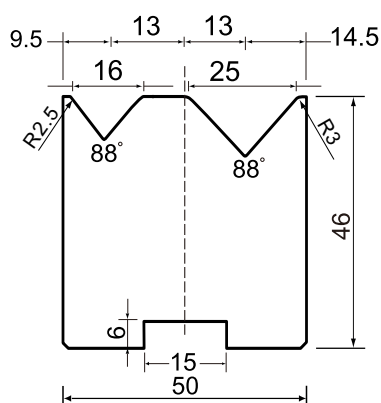
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K505C	88°	H=46	V12V20	100T/M 981.00KN/M	HRC 52-60	13.9KG 30.6LBS	7.1KG 15.6LBS	13.9KG 30.6LBS
K505D	86°							
CUSTOMIZABLE								



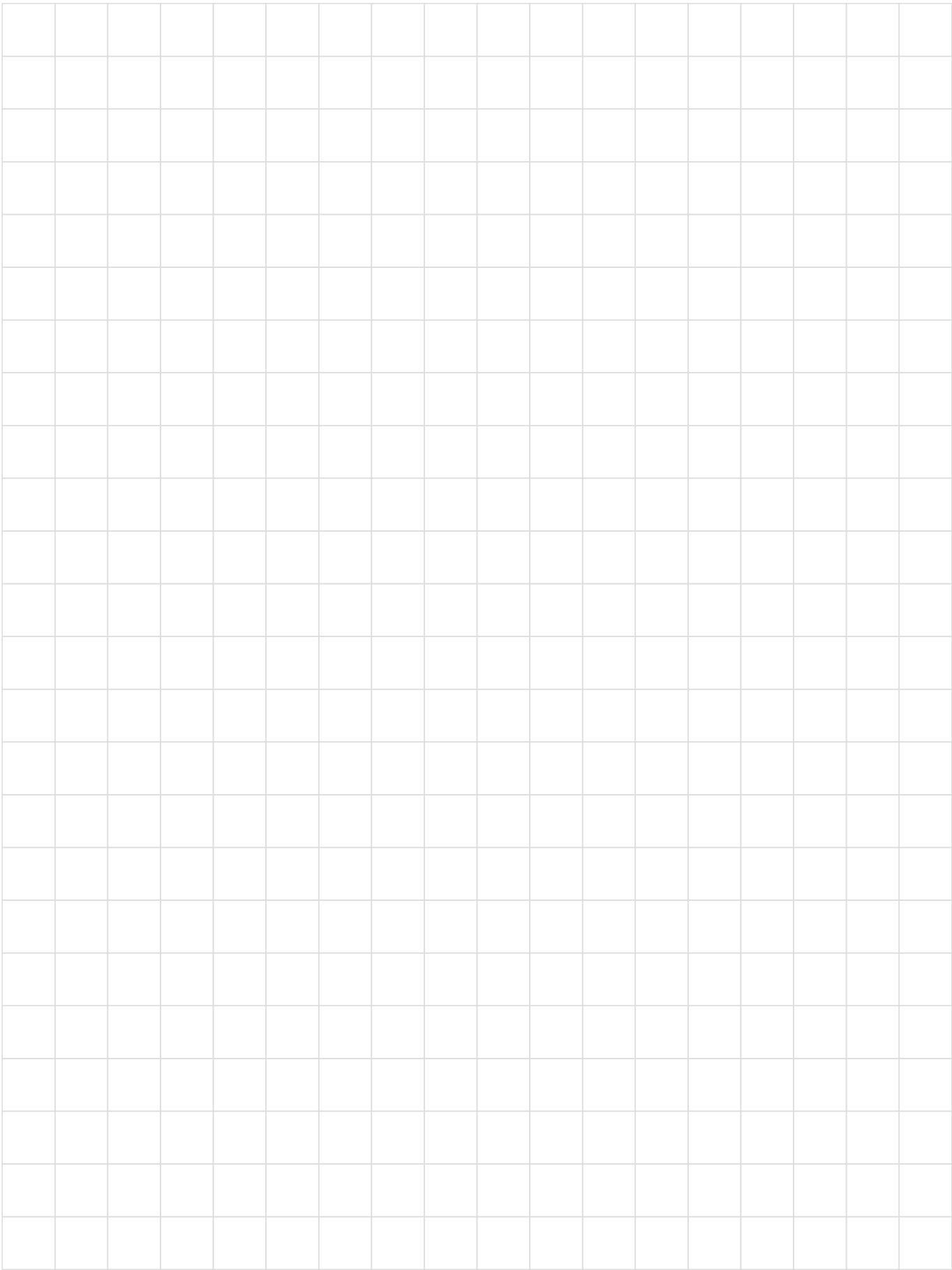
Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K506A	88°	H=46	V16V25	100T/M 981.00KN/M	HRC 52-60	14.6KG 32.2LBS	7.4KG 16.3LBS	14.6KG 32.2LBS
K506B	86°							
CUSTOMIZABLE								

V16V25 LARGE SHOULDER RADIUS

K506

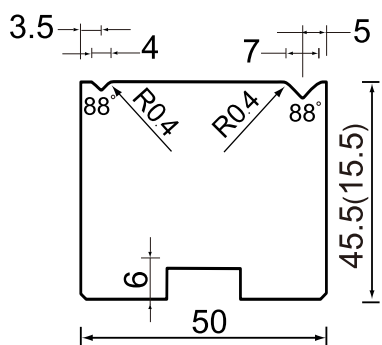


Code No.	Angle	Height	V	Max.Ton	Hardness	L835MML	L415MMS	L835MMLX
K506C	88°	H=46	V16V25	100T/M 981.00KN/M	HRC 52-60	14.6KG 32.2LBS	7.4KG 16.3LBS	14.6KG 32.2LBS
K506D	86°							
CUSTOMIZABLE								



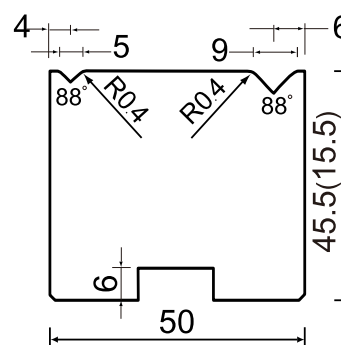
V4V7

K301



V5V9

K307

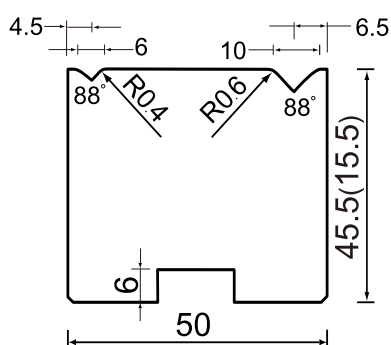


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K301	88°	V4V7	60T/M 588KN/M	HRC 52-60	16.2KG 35.7LBS		16.2KG 35.7LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K307	88°	V5V9	65T/M 637KN/M	HRC52-60	16.2KG 35.7LBS		16.2KG 35.7LBS
CUSTOMIZABLE							

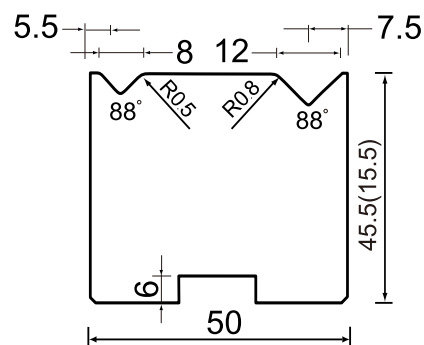
V6V10

K302



V8V12

K303

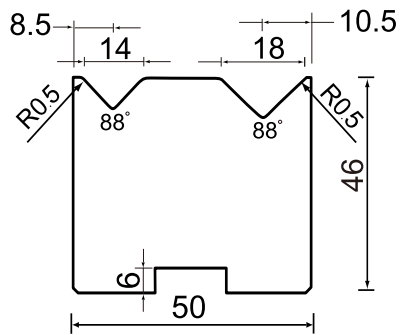


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K302	88°	V6V10	70T/M 686KN/M	HRC 52-60	14.8KG 32.6LBS		14.8KG 32.6LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K303	88°	V8V12	70T/M 686KN/M	HRC 52-60	15.8KG 34.8LBS	7.9KG 17.4LBS	15.8KG 34.8LBS
CUSTOMIZABLE							

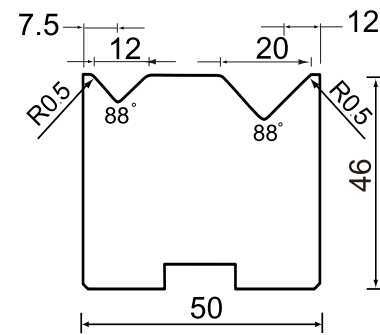
V14V18

K304



V12V20

K305

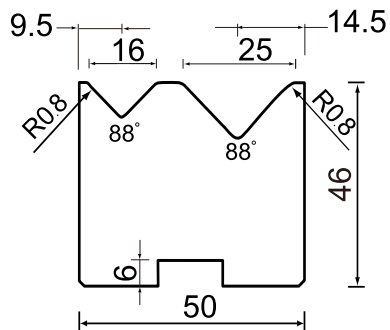


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K304	88°	V14V18	100T/M 981KN/M	HRC 52-60			
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K305	88°	V12V20	100T/M 981KN/M	HRC 52-60			
CUSTOMIZABLE							

V16V25

K306



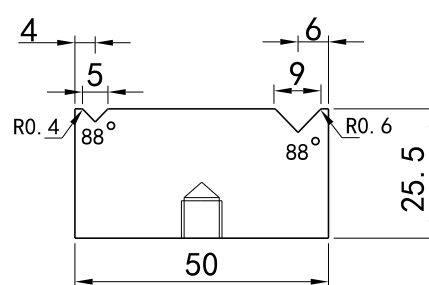
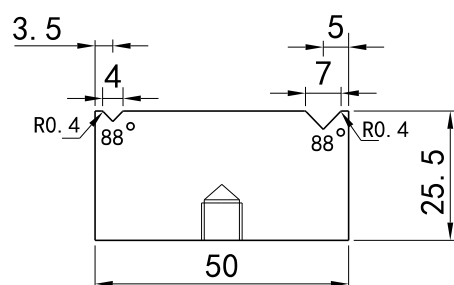
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K306	88°	V16V25	100T/M 981KN/M	HRC 52-60	15KG 33.0LBS	7.6KG 16.8LBS	15KG 33.0LBS
CUSTOMIZABLE							

V4V7

K121

V5V9

K122



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K121	88°	V4V7	60T/M 588KN/M	HRC52-60	9.8KG 21.6LBS	5KG 11.0LBS	N/A
CUSTOMIZABLE							

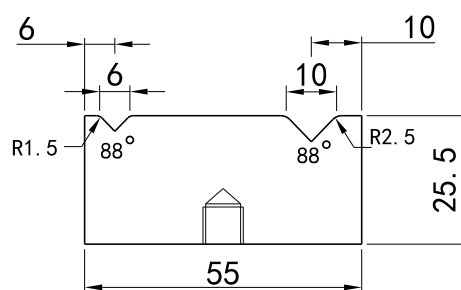
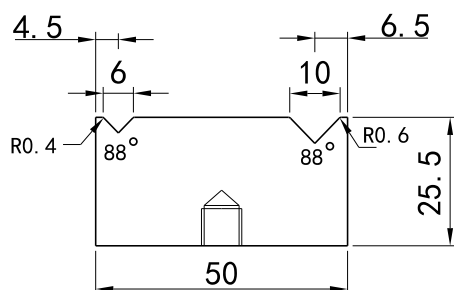
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K122	88°	V5V9	65T/M 637KN/M	HRC52-60	9.8KG 21.6LBS	5KG 11.0LBS	N/A
CUSTOMIZABLE							

V6V10

K123

V6V10

K311

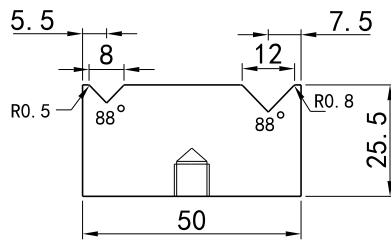


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K123	88°	V6V10	70T/M 686KN/M	HRC52-60	9.8KG 21.6LBS	5KG 11.0LBS	N/A
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K311	88°	V8V12	70T/M 686KN/M	HRC52-60			N/A
CUSTOMIZABLE							

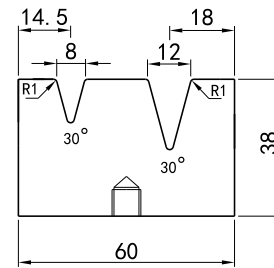
V8V12

K124



V8V12

K337

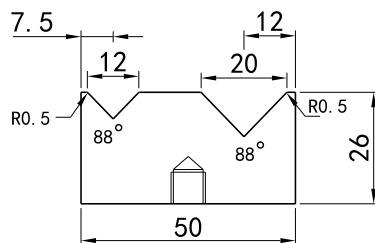


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K124	88°	V8V12	80T/M 784KN/M	HRC52-60	9.8KG 21.6LBS	5KG 11.0LBS	N/A
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K337	30°	V8V12	30T/M 294KN/M	HRC52-60			N/A
CUSTOMIZABLE							

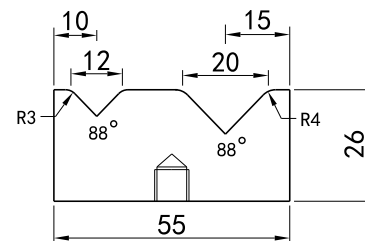
V12V20

K126



V12V20

K314



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K126	88°	V12V20	100T/M 981KN/M	HRC52-60	9.5KG 20.9LBS	4.9KG 10.8LBS	
CUSTOMIZABLE							

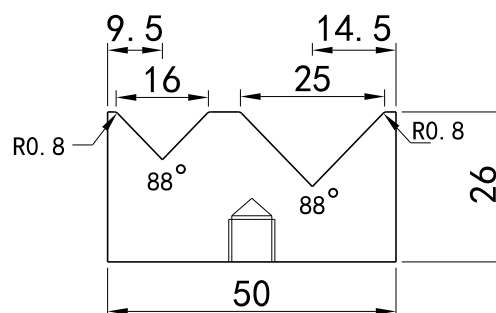
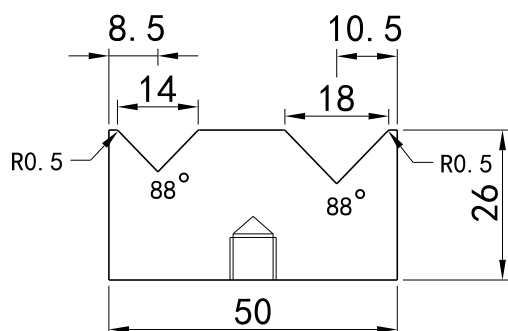
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K314	88°	V12V20	100T/M 981KN/M	HRC52-60			N/A
CUSTOMIZABLE							

V14V18

K125

V16V25

K127

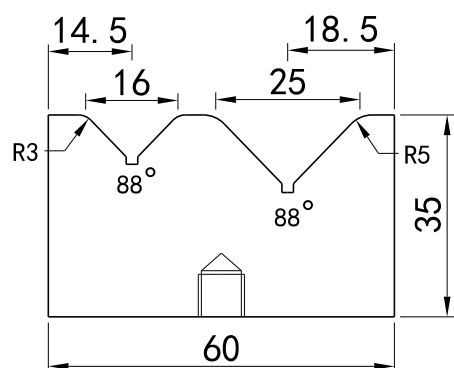


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K125	88°	V14V18	100T/M 981KN/M	HRC52-60	9.5KG 20.9LBS	4.9KG 10.8LBS	N/A
CUSTOMIZABLE							

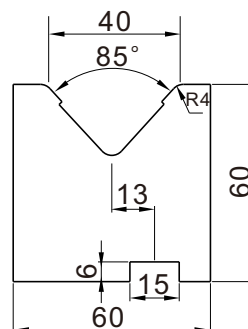
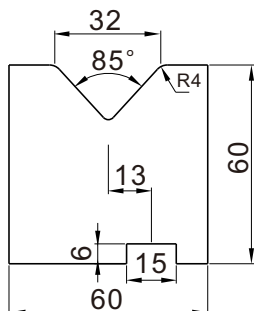
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K127	88°	V16V25	70T/M 686KN/M	HRC52-60	8.5KG 18.7LBS	4.4KG 9.7LBS	N/A
CUSTOMIZABLE							

V16V25

K128

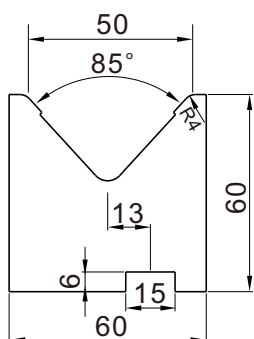


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K128	88°	V16V25	100T/M 981KN/M	HRC52-60	13.9KG 30.6LBS	7.1KG 15.7LBS	N/A
CUSTOMIZABLE							



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K035	85°	V32	100T/M 981KN/M	HRC52-60	21.6KG 47.6LBS	11KG 24.2LBS	23.1KG 50.9LBS
CUSTOMIZABLE							

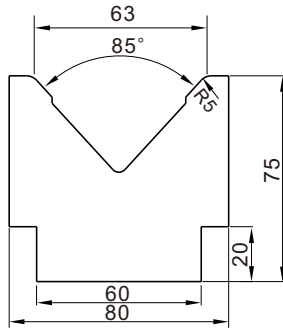
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K036	85°	V40	100T/M 981KN/M	HRC52-60	21.8KG 48.1LBS	11.1KG 24.5LBS	21.8KG 48.1LBS
CUSTOMIZABLE							



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K037	85°	V50	100T/M 981KN/M	HRC52-60	20KG 44.1LBS	10.2KG 22.5LBS	20KG 44.1LBS
CUSTOMIZABLE							

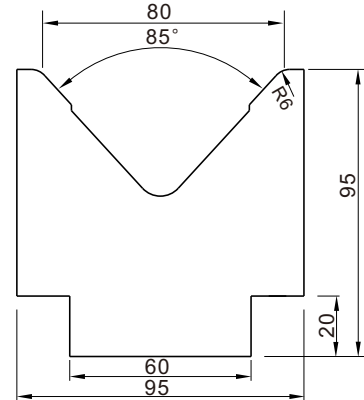
85° V63

K038



85° V80

K013

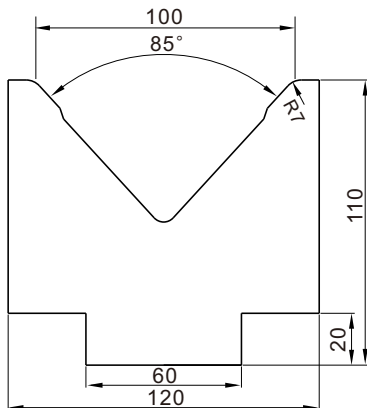


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K038	85°	V63	100T/M 981KN/M	HRC52-60	29.3KG 64.6LBS	15.6KG 34.4LBS	29.3KG 64.6LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K013	85°	V80	100T/M 981KN/M	HRC52-60	45.7KG 100.8LBS	22.2KG 48.9LBS	45.7KG 100.8LBS
CUSTOMIZABLE							

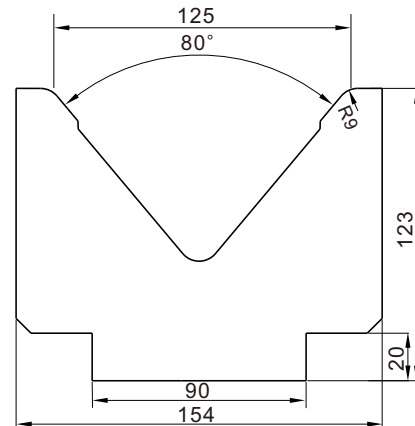
85° V100

K018



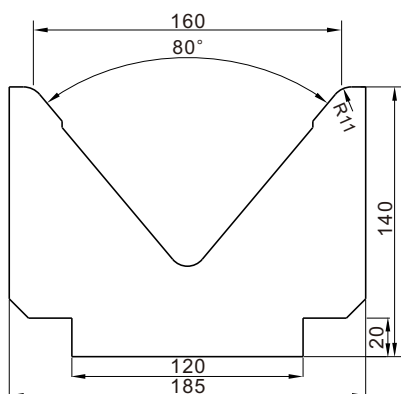
80° V125

K039



Code.No.	Angle	V	Max.Ton	Hardness	L835 mm	L415 mm	L835 mm SE
K018	85°	V100	100T/M 981KN/M	HRC52-60	62KG 136.7LBS	30.8KG 67.9LBS	62KG 136.7LBS
CUSTOMIZABLE							

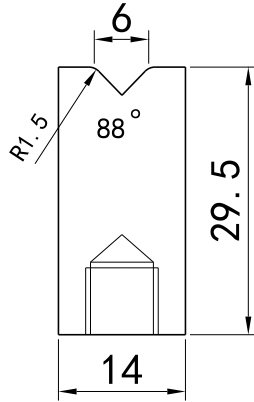
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K039	80°	V125	100T/M 981KN/M	HRC52-60	75KG 165.3LBS	37.5KG 82.7LBS	75KG 165.3LBS
CUSTOMIZABLE							



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K014	80°	V160	100T/M 981KN/M	HRC52-60	114KG 251.3LBS	57KG 125.7LBS	N/A
CUSTOMIZABLE							

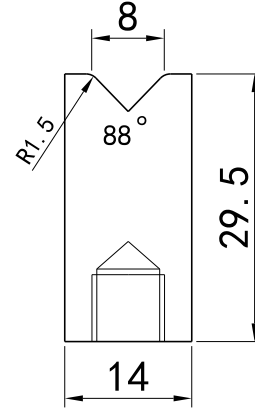
88° V6

K320



88° V8

K321

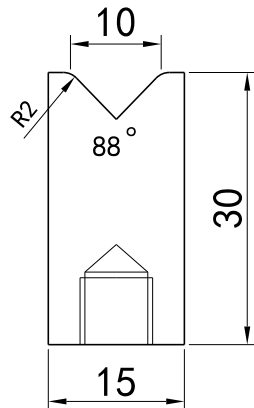


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K320	88°	V6	95T/M 932KN/M	HRC52-60	3.8KG 8.4LBS	2KG 4.4LBS	N/A
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K321	88°	V8	95T/M 932KN/M	HRC52-60	3.8KG 8.4LBS	2KG 4.4LBS	N/A
CUSTOMIZABLE							

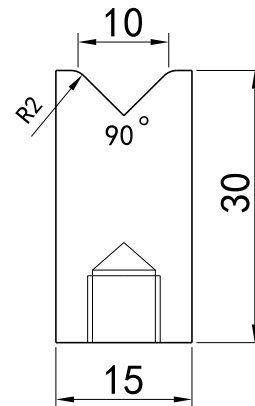
88° V10

K322



90° V10

K323

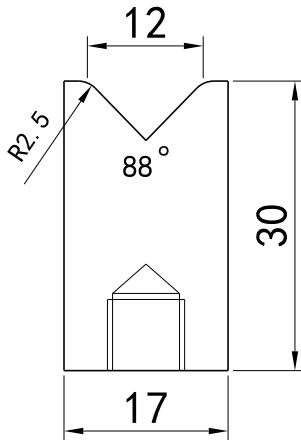


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K322	88°	V10	90T/M 932KN/M	HRC52-60	3.8KG 8.4LBS	2KG 4.4LBS	N/A
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 mm	L415 mm	L835 mm SE
K323	90°	V10	95T/M 932KN/M	HRC52-60	3.8KG 8.4LBS	2KG 4.4LBS	N/A
CUSTOMIZABLE							

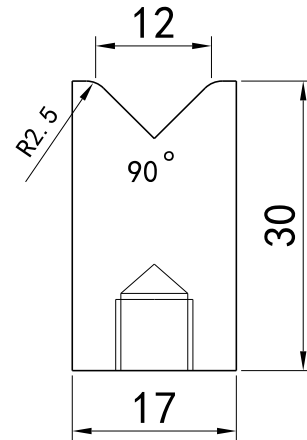
88° V12

K324



90° V12

K326

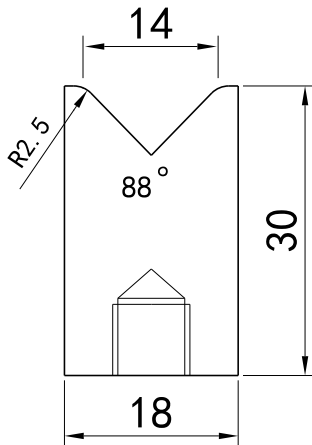


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K324	88°	V12	100T/M 981KN/M	HRC52-60	4.1KG 9.0LBS	2.1KG 4.6LBS	N/A
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K326	90°	V12	100T/M 981KN/M	HRC52-60	4.1KG 8.4LBS	2.1KG 4.4LBS	N/A
CUSTOMIZABLE							

88° V14

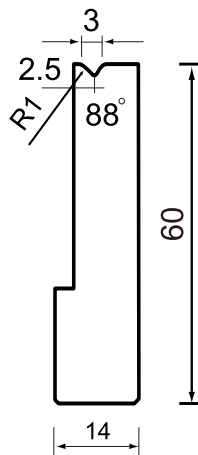
K325



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K325	88°	V14	100T/M 981KN/M	HRC52-60	4.2KG 9.3LBS	2.2KG 4.9LBS	N/A
CUSTOMIZABLE							

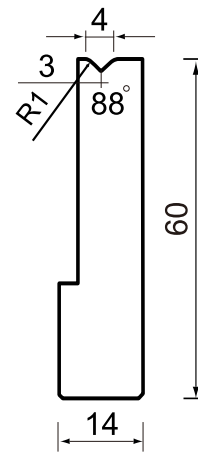
88° V3

K083



88° V4

K084

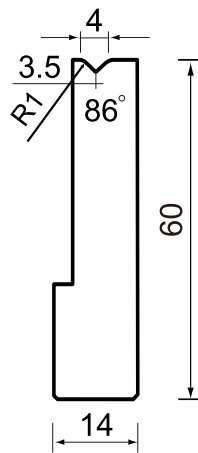


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K083	88°	V3	40T/M 392KN/M	HRC52-60	5.4KG 11.9LBS	2.8KG 6.2LBS	5.4KG 11.9LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K084	88°	V4	40T/M 392KN/M	HRC52-60	5.7KG 12.6LBS	2.9KG 6.4LBS	5.7KG 12.6LBS
CUSTOMIZABLE							

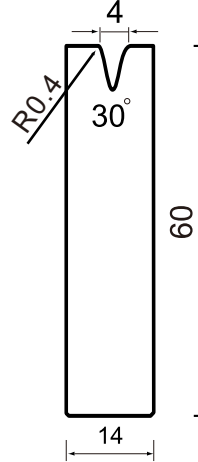
86° V4

A84



30° V4

K084



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A84	86°	V4	40T/M 392KN/M	HRC52-60	5.7KG 12.6LBS	2.9KG 6.4LBS	5.7KG 12.6LBS
CUSTOMIZABLE							

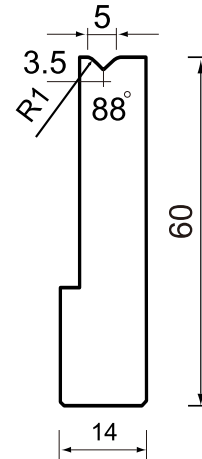
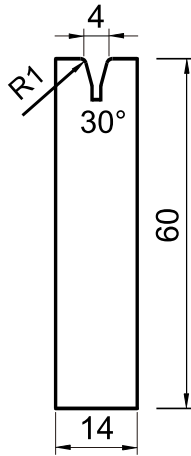
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K084	30°	V4	20T/M 196KN/M	HRC52-60	6.6KG 14.6LBS	3.4KG 7.5LBS	6.6KG 14.6LBS
CUSTOMIZABLE							

30° V4

A84

88° V5

K085



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A84	30°	V4	16T/M 157KN/M	HRC52-60	6.5KG 14.3LBS	2.7KG 6.0LBS	6.5KG 14.3LBS
CUSTOMIZABLE							

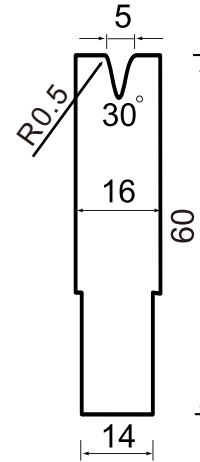
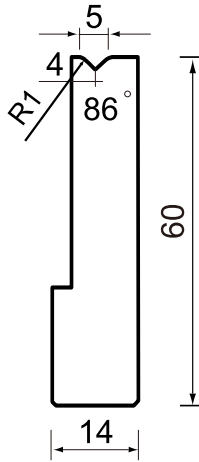
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K085	88°	V5	50T/M 490KN/M	HRC52-60	5.7KG 12.6LBS	2.9KG 6.4LBS	5.7KG 12.6LBS
CUSTOMIZABLE							

86° V5

A85

30° V5

K085

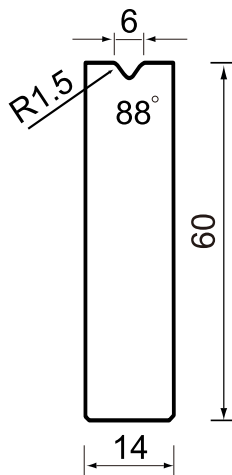


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A85	86°	V5	50T/M 490KN/M	HRC52-60	5.5KG 12.1LBS	2.8KG 6.2LBS	5.5KG 12.1LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K085	30°	V5	20T/M 196KN/M	HRC52-60	7.2KG 15.9LBS	3.7KG 8.2LBS	7.2KG 15.9LBS
CUSTOMIZABLE							

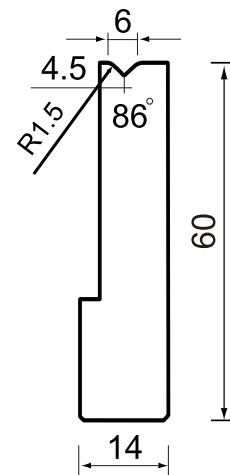
88° V6

K070



86° V6

A70

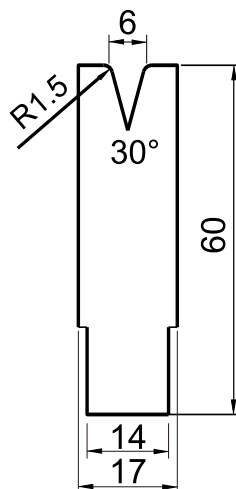


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K070	88°	V6	95T/M 932KN/M	HRC52-60	6.6KG 14.5LBS	3.4KG 7.5LBS	6.6KG 14.5LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A70	86°	V6	80T/M 785KN/M	HRC52-60	5.9KG 13.0LBS	3KG 6.6LBS	5.9KG 13.0LBS
CUSTOMIZABLE							

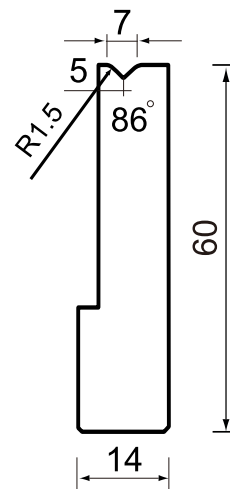
30° V6

A70



86° V7

A86

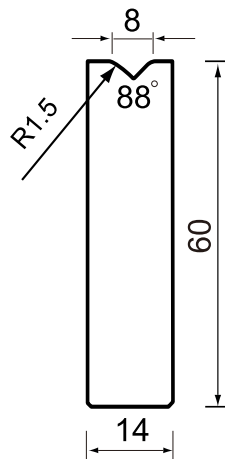


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MM SE
A70	30°	V6	18T/M 177KN/M	HRC52-60	7.2KG 15.9LBS	3.7KG 8.2LBS	7.2KG 15.9LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A86	86°	V7	85T/M 834KN/M	HRC52-60	6KG 13.2LBS	3.1KG 6.8LBS	6KG 13.2LBS
CUSTOMIZABLE							

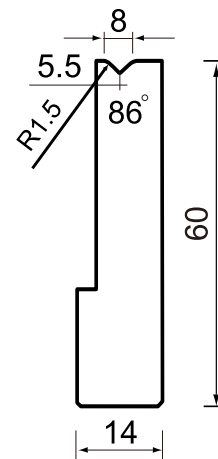
88° V8

K071



86° V8

A71

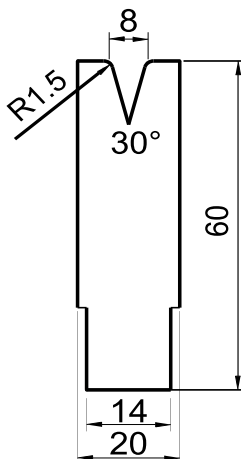


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K071	88°	V8	95T/M 932KN/M	HRC52-60	6.6KG 14.6LBS	3.4KG 7.5LBS	6.6KG 14.6LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A71	86°	V8	90T/M 883KN/M	HRC52-60	6.1KG 13.4LBS	3.1KG 6.8LBS	6.1KG 13.4LBS
CUSTOMIZABLE							

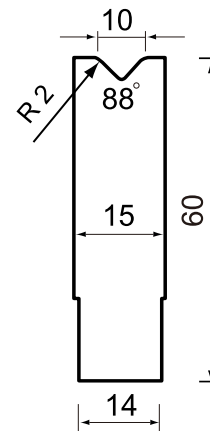
30° V8

A71



88° V10

K072

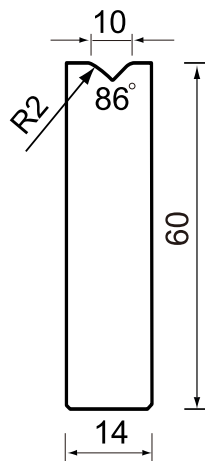


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A71	30°	V8	20T/M 196KN/M	HRC52-60	8KG 17.6LBS	4.1KG 9.0LBS	8KG 17.6LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K072	88°	V10	95T/M 932KN/M	HRC52-60	6.8KG 15.0LBS	3.5KG 7.7LBS	6.8KG 15.0LBS
CUSTOMIZABLE							

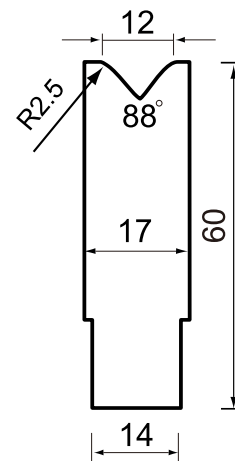
86° V10

A72



88° V12

K074

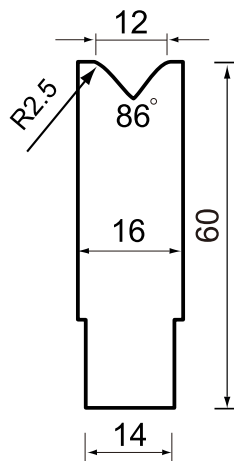


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A72	86°	V10	95T/M 932KN/M	HRC52-60	6.5KG 14.3LBS	3.3KG 7.3LBS	6.5KG 14.3LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K074	88°	V12	95T/M 932KN/M	HRC52-60	7.3KG 16.1LBS	3.7KG 8.2LBS	7.3KG 16.1LBS
CUSTOMIZABLE							

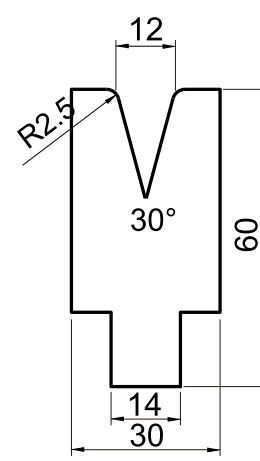
86° V12

A74



30° V12

A74

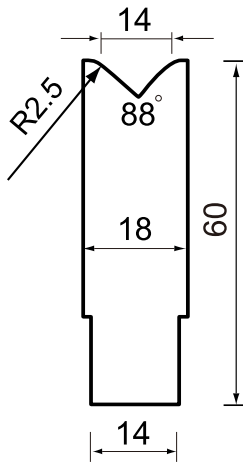


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A74	86°	V12	95T/M 932KN/M	HRC52-60	7KG 15.4LBS	3.6KG 7.9LBS	7KG 15.4LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A74	30°	V12	30T/M 294KN/M	HRC52-60	10.3KG 22.7LBS	5.3KG 11.7LBS	10.3KG 22.7LBS
CUSTOMIZABLE							

88° V14

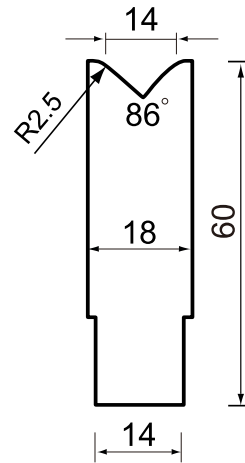
K076



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K076	88°	V14	95T/M 932KN/M	HRC52-60	7.6KG 16.8LBS	3.9KG 8.6LBS	7.6KG 16.8LBS
CUSTOMIZABLE							

86° V14

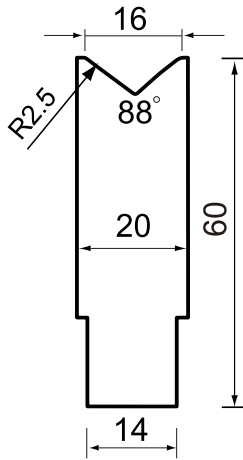
A76



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A76	86°	V14	95T/M 932KN/M	HRC52-60	7.5KG 16.5LBS	3.85KG 8.5LBS	7.5KG 16.5LBS
CUSTOMIZABLE							

88° V16

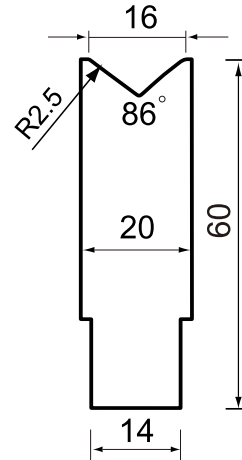
K077



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K077	88°	V16	100T/M 981KN/M	HRC52-60	8.3KG 18.3LBS	4.2KG 9.3LBS	8.3KG 18.3LBS
CUSTOMIZABLE							

86° V16

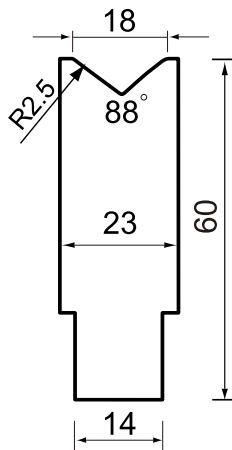
A77



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A77	86°	V16	100T/M 981KN/M	HRC52-60	8KG 17.6LBS	4.1KG 9.0LBS	8KG 17.6LBS
CUSTOMIZABLE							

88° V18

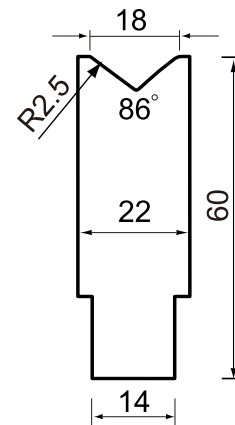
K078



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K078	88°	V18	100T/M 981KN/M	HRC52-60	8.8KG 19.4LBS	4.5KG 9.9LBS	8.8KG 19.4LBS
CUSTOMIZABLE							

86° V18

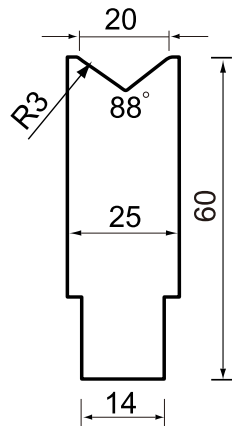
A78



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A78	86°	V18	100T/M 981KN/M	HRC52-60	8.5KG 18.7LBS	4.3KG 9.5LBS	8.5KG 18.7LBS
CUSTOMIZABLE							

88° V20

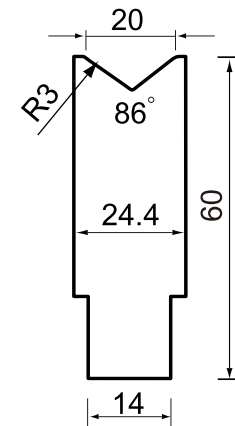
K079



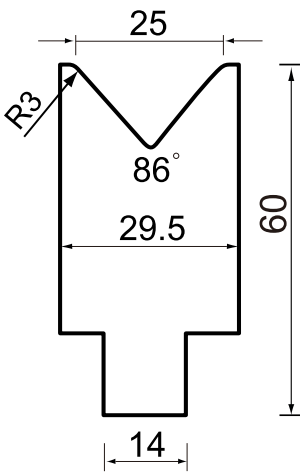
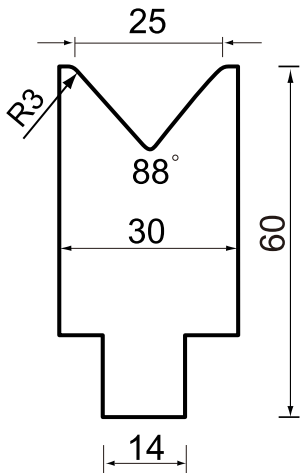
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K079	88°	V20	100T/M 981KN/M	HRC52-60	9.2KG 20.3LBS	4.7KG 10.4LBS	9.2KG 20.3LBS
CUSTOMIZABLE							

86° V20

A79



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A79	86°	V20	100T/M 981KN/M	HRC52-60	9KG 19.8LBS	4.3KG 9.5LBS	9KG 19.8LBS
CUSTOMIZABLE							

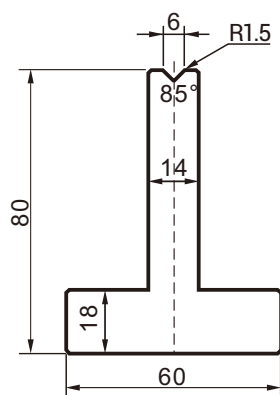


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K082	88°	V25	100T/M 981KN/M	HRC52-60	9.6KG 21.2LBS	5KG 11LBS	9.6KG 21.2LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
A82	86°	V25	100T/M 981KN/M	HRC 52-60	10.1KG 22.3LBS	5.1KG 11.2LBS	10.1KG 22.3LBS
CUSTOMIZABLE							

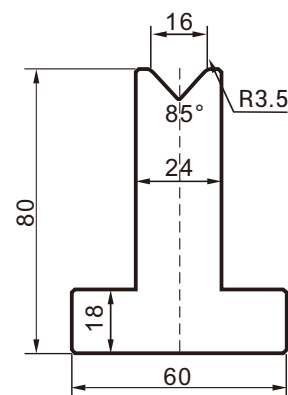
H80 W14

K20.506



H80 W24

K20.516

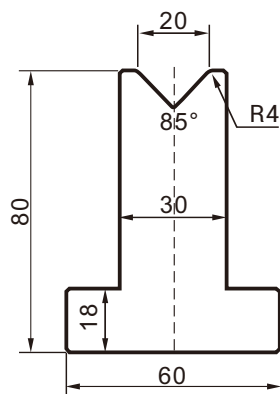


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.506L	85°	V6	102T/M 1000KN/M	HRC 52-60	12.7KG 28.0LBS	6.3KG 13.9LBS	12.1KG 26.7LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MM	L415 MM	L835 MM SE
K20.516L	85°	V16	102T/M 1000KN/M	HRC 52-60	16.3KG 36.0LBS	8.1KG 17.9LBS	15.7KG 34.6LBS
CUSTOMIZABLE							

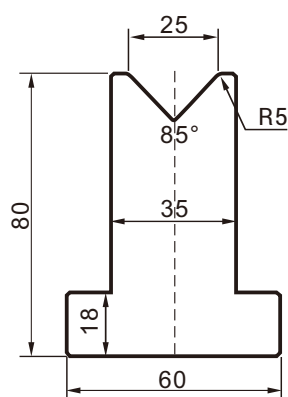
H80 W30

K20.520



H80 W35

K20.525

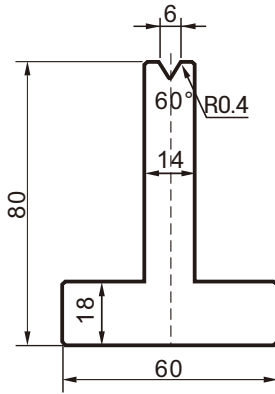


Code.No.	Angle	V	Max.Ton	Hardness	L835 MM	L415 MM	L835 MM SE
K20.520L	85°	V20	102T/M 1000KN/M	HRC 52-60	18.5KG 40.6LBS	9.2KG 20.3LBS	17.7KG 39.0LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MM	L415 MM	L835 MM SE
K20.525L	85°	V25	51T/M 500KN/M	HRC 52-60	20.1KG 44.3LBS	10KG 22.0LBS	19.3KG 42.5LBS
CUSTOMIZABLE							

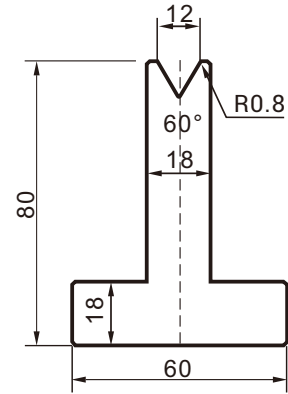
H80 W14

K20.297



H80 W18

K20.300

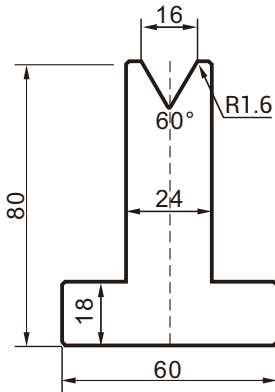


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.297	60°	V6	61.2T/M 600KN/M	HRC 52-60	12.6KG 27.8LBS	6.3KG 13.9LBS	12.1KG 26.7LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.300	60°	V12	61.2T/M 600KN/M	HRC 52-60	14KG 30.7LBS	6.9KG 15.2LBS	13.4KG 29.5LBS
CUSTOMIZABLE							

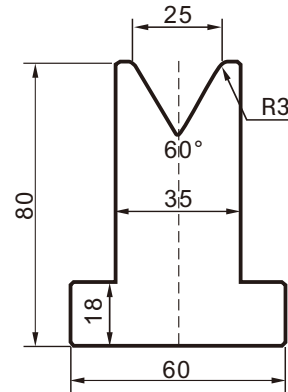
H80 W24

K20.301



H80 W35

K20.311

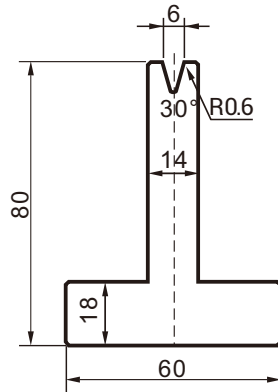


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.301	60°	V16	61.2T/M 600KN/M	HRC 52-60	16.1KG 35.5LBS	8KG 17.6LBS	15.4KG 34.0LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.311	60°	V25	61.2T/M 600KN/M	HRC 52-60	19.5KG 43.0LBS	9.7KG 21.4LBS	18.7KG 41.2LBS
CUSTOMIZABLE							

H80 W14

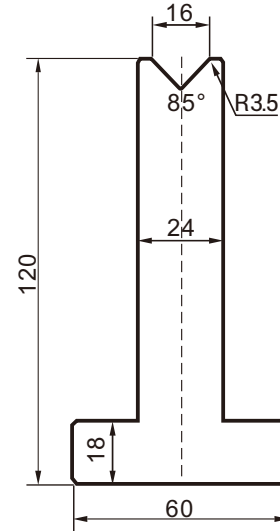
K20.317



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.317	30°	V6	35.7T/M 350KN/M	HRC 52-60	12.5KG 27.6LBS	6.2KG 13.7LBS	12KG 26.5LBS
CUSTOMIZABLE							

H120 W24

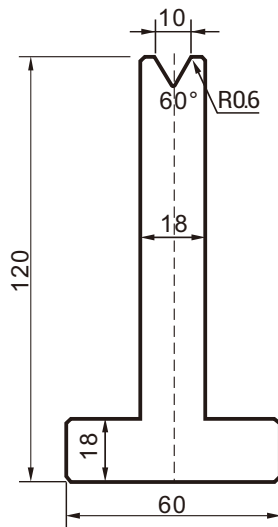
K21.516



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K21.516	85°	V16	102T/M 1000KN/M	HRC 52-60	22.6KG 49.8LBS	11.3KG 24.9LBS	21.7KG 47.8LBS
CUSTOMIZABLE							

H120 W18

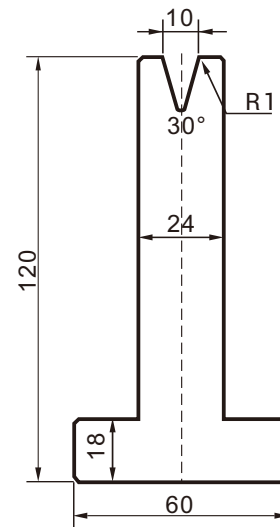
K20.388



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.388	60°	V10	61T/M 600KN/M	HRC 52-60	18.8KG 41.4LBS	9.3KG 20.5LBS	18KG 39.7LBS
CUSTOMIZABLE							

H120 W24

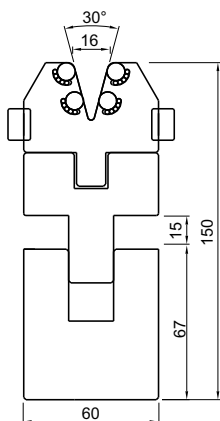
K20.353



Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.353	30°	V10	51T/M 500KN/M	HRC 52-60	22.8KG 50.3LBS	11.3KG 24.9LBS	21.9KG 48.3LBS
CUSTOMIZABLE							

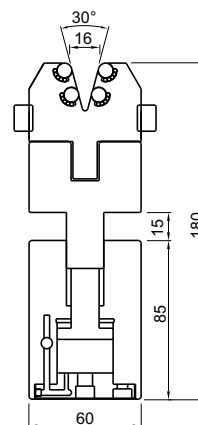
30° V16

K1016-1



30° V16

K1016-2

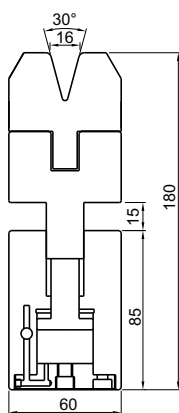


Code.No.	MAX.TON	Height	V Width	Length	Weight	Hardness
K1016-1L	100T/M 981KN/M	150mm	16	L800mm 31.50"	9KG 19.8LBS	HRC 52-60
K1016-1S						
CUSTOMIZABLE					L400mm 16.14"	

Code.No.	MAX.TON	Height	V Width	Length	Weight	Hardness
K1016-2L	100T/M 981KN/M	180mm 7.09"	16	L830mm 32.68"	9.4KG 20.7LBS	HRC 52-60
K1016-2S						
CUSTOMIZABLE					L410mm 16.14"	

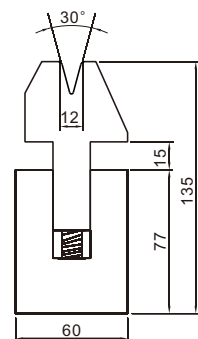
30° V16

K1016-3



30° V12

K1016-4

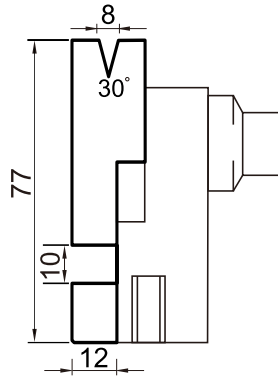


Code.No.	MAX.TON	Height	V Width	Length	Weight	Hardness
K1016-3L	100T/M 981KN/M	180mm 7.09"	16	L830mm 32.68"	9KG 19.8LBS	HRC 52-60
K1016-3S						
CUSTOMIZABLE					L400mm 16.14"	

Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
K1016-4L	100T/M 981KN/M	135mm 5.31"	16	L835mm 32.87"	9.4KG 20.7LBS	HRC 52-60
K1016-4S						
CUSTOMIZABLE					L415mm 16.34"	

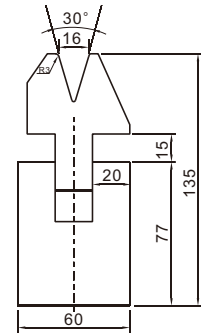
30° V8

K1016-5



30° V16

K1016-6

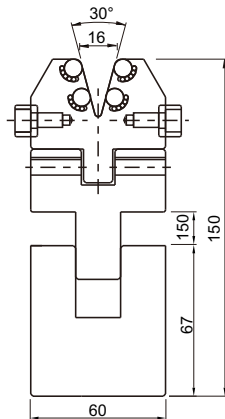


Code.No.	MAX.TON	Height	V Width	Length	Weight	Hardness
K1016-5L	100T/M 981KN/M	77mm 3.03"	8	L835mm 32.87"	9.4KG 20.7LBS	HRC 52-60
K1016-5S						
CUSTOMIZABLE					L415mm 16.14"	

Code.No.	MAX.TON	Height	V Width	Length	Weight	Hardness
K1016-6L	100T/M 981KN/M	135mm 5.31"	16	L835mm 32.87"	9.4KG 20.7LBS	HRC 52-60
K1016-6S						
CUSTOMIZABLE					L415mm 16.34"	

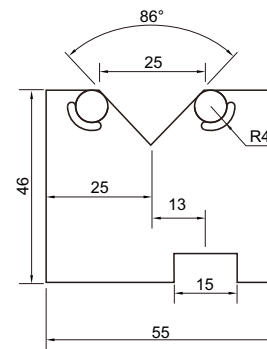
30° V16

K1016-7



86° V25

K1016-8

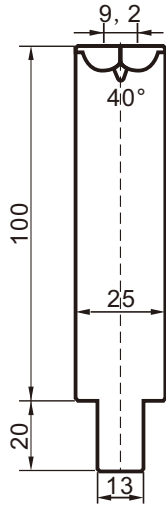


Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
K1016-7L	100T/M 981KN/M	150mm 5.90"	16	L800mm 31.50"	9.4KG 20.7LBS	HRC 52-60
K1016-7S						
CUSTOMIZABLE					L400mm 15.75"	

Code.No.	MAX.TON	Height	Width	Length	Weight	Hardness
K1016-8L	100T/M 981KN/M	46mm 1.81"	16	L830mm 32.68"	9.4KG 20.7LBS	HRC 52-60
K1016-8S						
CUSTOMIZABLE					L410mm 16.14"	

KETEC NEW PRODUCT

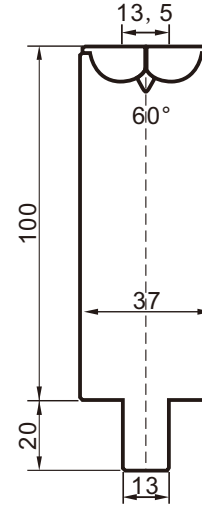
K29.000



Code.No.	MAX.TON	Height	Width	Angle	Length	Weight	Hardness
K29.000L	102T/M 1000KN/M	100mm 3.94"	25	40°	L200mm 7.87"	4KG 8.8LBS	HRC 52-60
K29.000S							
CUSTOMIZABLE						L100mm 3.94"	

KETEC NEW PRODUCT

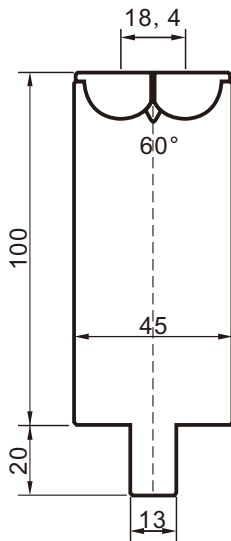
K29.100



Code.No.	MAX.TON	Height	Width	Angle	Length	Weight	Hardness
K29.100L	132.6T/M 1300KN/M	100mm 3.94"	37	60°	L200mm 7.87"	5.6KG 12.3LBS	HRC 52-60
K29.100S							
CUSTOMIZABLE							

KETEC NEW PRODUCT

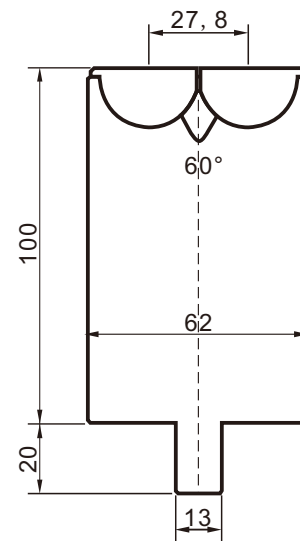
K29.150



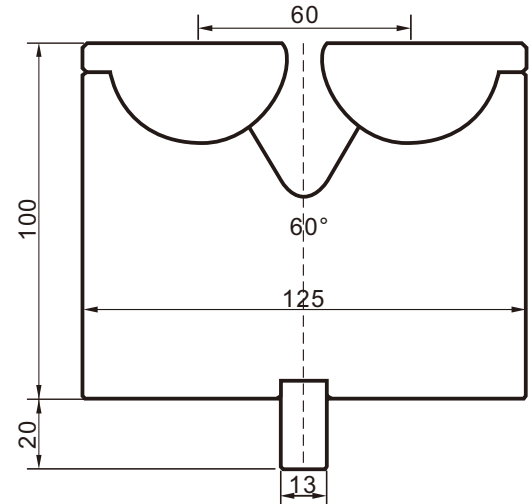
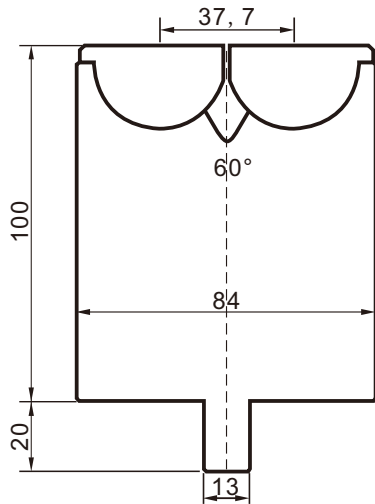
Code.No.	MAX.TON	Height	Width	Angle	Length	Weight	Hardness
K29.150L	153T/M 1500KN/M	100mm 3.94"	45	60°	L200mm 7.87"	6KG 13.2LBS	HRC 52-60
K29.150S							
CUSTOMIZABLE							

KETEC NEW PRODUCT

K29.200



Code.No.	MAX.TON	Height	Width	Angle	Length	Weight	Hardness
K29.200L	173T/M	100mm	62	60°	L200mm	9KG	HRC 52-60
K29.200S	1700KN/M	3.94"			7.87"	19.8LBS	
CUSTOMIZABLE					L100mm	4.5KG	
					3.94"	9.9LBS	

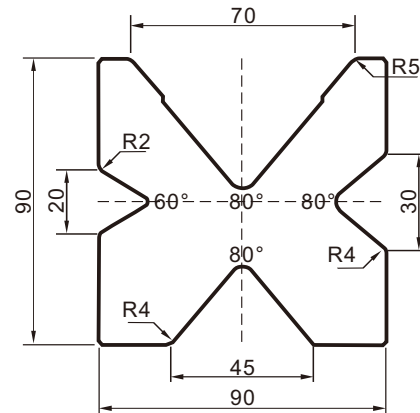
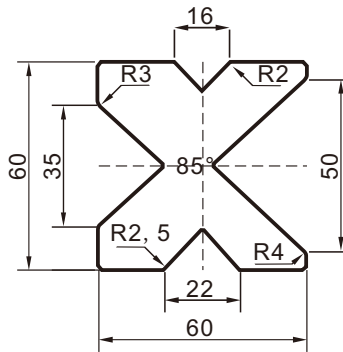


Code.No.	MAX.TON	Height	Width	Angle	Length	Weight	Hardness
K29.300L	203.9T/M 2000KN/M	100mm 3.94"	84	60°	L200mm 7.87"	11.6KG 25.6LBS	HRC 52-60
K29.300S							
CUSTOMIZABLE					L100mm 3.94"	5.8KG 12.8LBS	

Code.No.	MAX.TON	Height	Width	Angle	Length	Weight	Hardness
K29.600L	203.9T/M 2000KN/M	100mm 3.94"	125	60°	L200mm 7.87"	18.2KG 40.1LBS	HRC 52-60
K29.600S							
CUSTOMIZABLE							

K21.207

K28.820

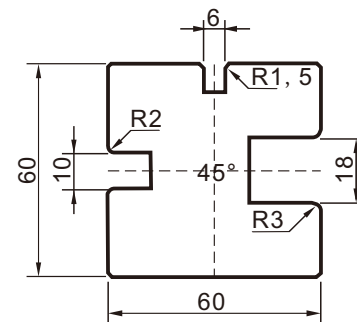
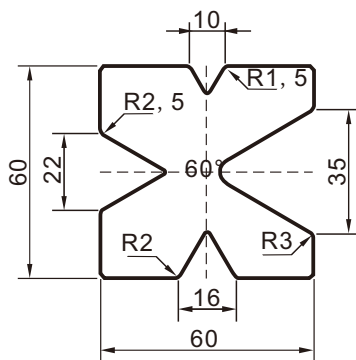


Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.207	85°	V16 V22 V35 V50	81.6T/M 800KN/M	HRC 52-60	15.6KG 34.4LBS	7.8KG 17.2LBS	14.9KG 32.8LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K28.820	60°	V20 V30 V45 V70	61.2T/M 600KN/M	HRC 52-60	36.2KG 30.7LBS	18KG 15.2LBS	34.7KG 29.5LBS
CUSTOMIZABLE							

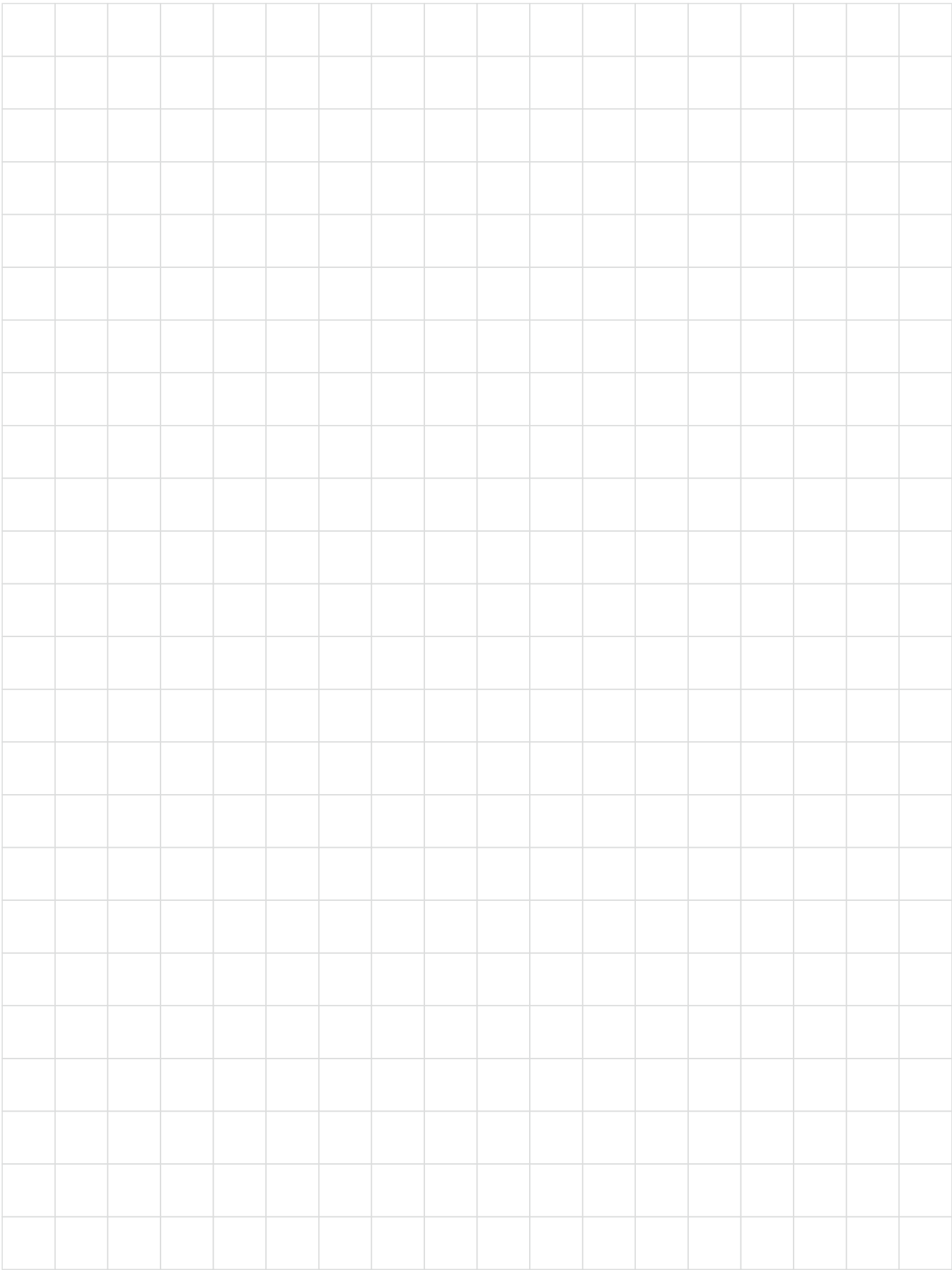
K20.350

K21.209



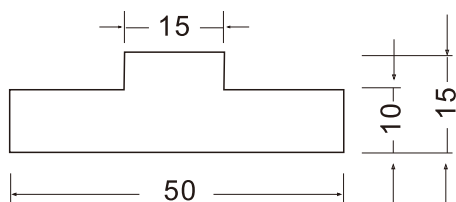
Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K20.350L	60°	V10 V16 V22 V35	61.2T/M 600KN/M	HRC 52-60	17.8KG 39.2LBS	8.8KG 19.4LBS	17.1KG 37.7LBS
CUSTOMIZABLE							

Code.No.	Angle	V	Max.Ton	Hardness	L835 MML	L415 MMS	L835 MMLX
K21.209	45°	V6 V8 V18	102T/M 1000KN/M	HRC 52-60	20KG 44.1LBS	10KG 22.0LBS	19.2KG 42.3LBS
CUSTOMIZABLE							



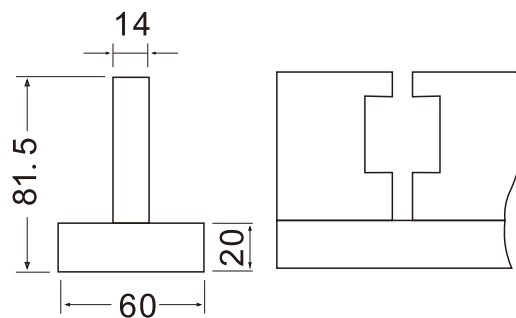
2V DIE RAIL

KDR-2V



DIE HOLDER

K330

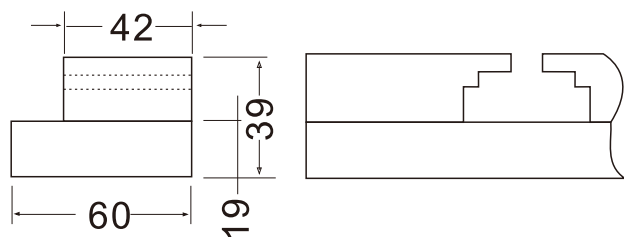


Code.No.	Width 1	Height 1	Width 2	Height 2	L835 MM	L415 MM	L515 MM
KDR-2V-L	50mm	15mm	15mm	10mm	3.5KG	1.9KG	2.5KG
KDR-2V-S	1.97"	0.59"	0.59"	0.39"	7.7LBS	4.2LBS	5.5LBS
KDR-2V-S5							

Code.No.	Width 1	Height 1	Width 2	Height 2	L830 MM	L412 MM
K330L	60mm	20mm	14mm	81.5mm	14.3KG	7.3KG
K330S	2.36"	0.79"	0.55"	3.21"	31.5LBS	16.1LBS
MACHINE MODEL REQUIRED						

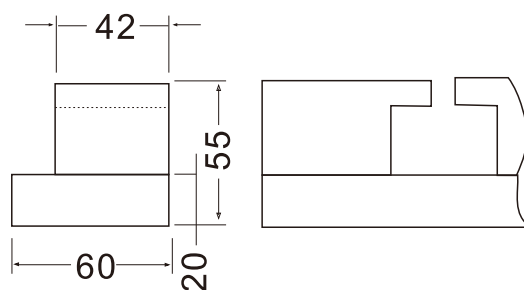
DIE HOLDER

K33039



DIE HOLDER

K33055

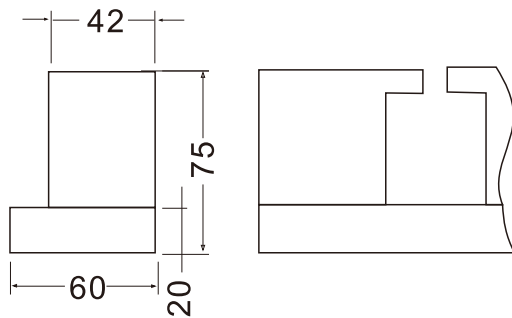


Code.No.	Width 1	Height 1	Width 2	Height 2	L831 MM	L413 MM
K33039L	60mm	19mm	42mm	39mm	12.5KG	6.9KG
K33039S	2.36"	0.75"	1.65"	1.54"	27.6LBS	15.2LBS
MACHINE MODEL REQUIRED						

Code.No.	Width 1	Height 1	Width 2	Height 2	L831 MM	L413 MM
K33055L	60mm	20mm	42mm	55mm	16KG	8.1KG
K33055S	2.36"	0.79"	1.65"	2.17"	35.3LBS	17.9LBS
SOLID & BOLT STYLE						

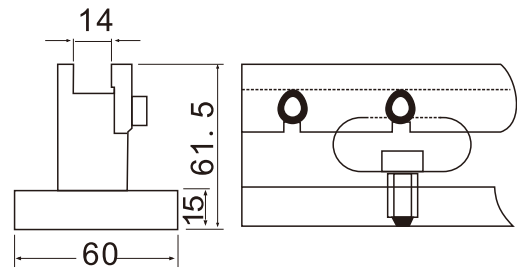
DIE HOLDER

K33075



DIE HOLDER

K0815



Code.No.	Width 1	Height 1	Width 2	Height 2	L830 MM	L412 MM
K33075L	60mm	20mm	42mm	75mm	14.3KG	7.3KG
K33075S	2.36"	0.79"	1.65"	2.95"	31.5LBS	16.1LBS

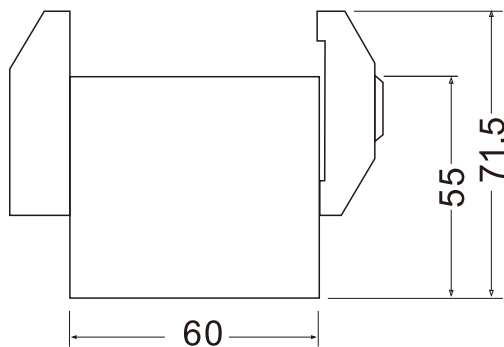
MACHINE MODEL REQUIRED

Code.No.	Width 1	Height 1	Width 2	Height 2	L830 MM	L412 MM
K0815L	60mm	15mm	14mm	76.5mm	14.3KG	7.3KG
K0815S	2.36"	0.59"	0.55"	3.01"	31.5LBS	16.1LBS

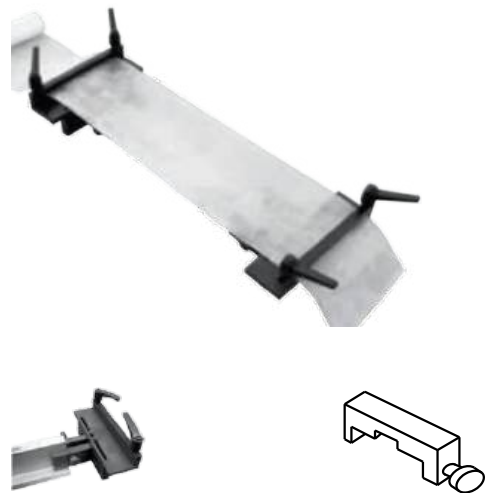
MACHINE MODEL REQUIRED

DIE HOLDER BORAD

K055



FILM CLAMPING



Code.No.	Width 1	Height 1	Width 2	Height 2	L835 MM	L415 MM
K055L	60mm	71.5mm	N/A	55mm	31.5KG	15.8KG
K055S	2.36"	2.81"	N/A	2.17"	69.4LBS	34.8LBS

NOTE:

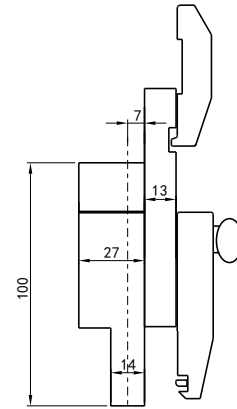
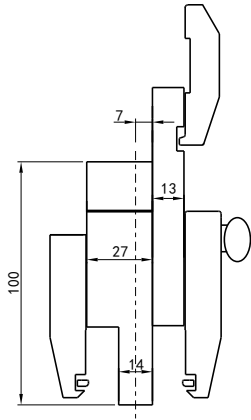
PROTECTED BENDING FILM	LENGTH	2M	10M	15M	20M	30M	50M
	THICK + WIDTH	0.5*150MM					

DOUBLE CLAMPING

KJA2S-7-100

SINGLE CLAMPING

KJA2-7-100

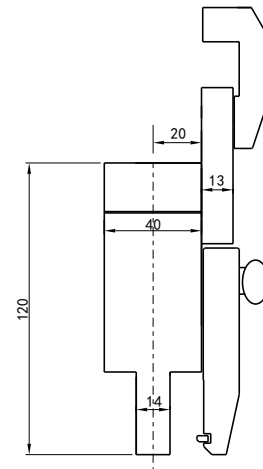
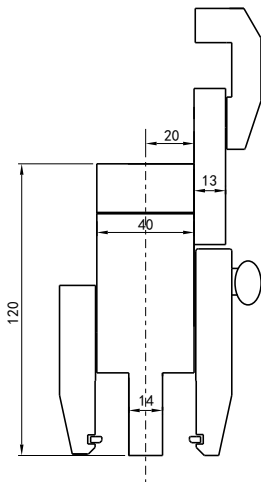


DOUBLE CLAMPING

KJB20S-7-120

SINGLE CLAMPING

KJB20-20-120



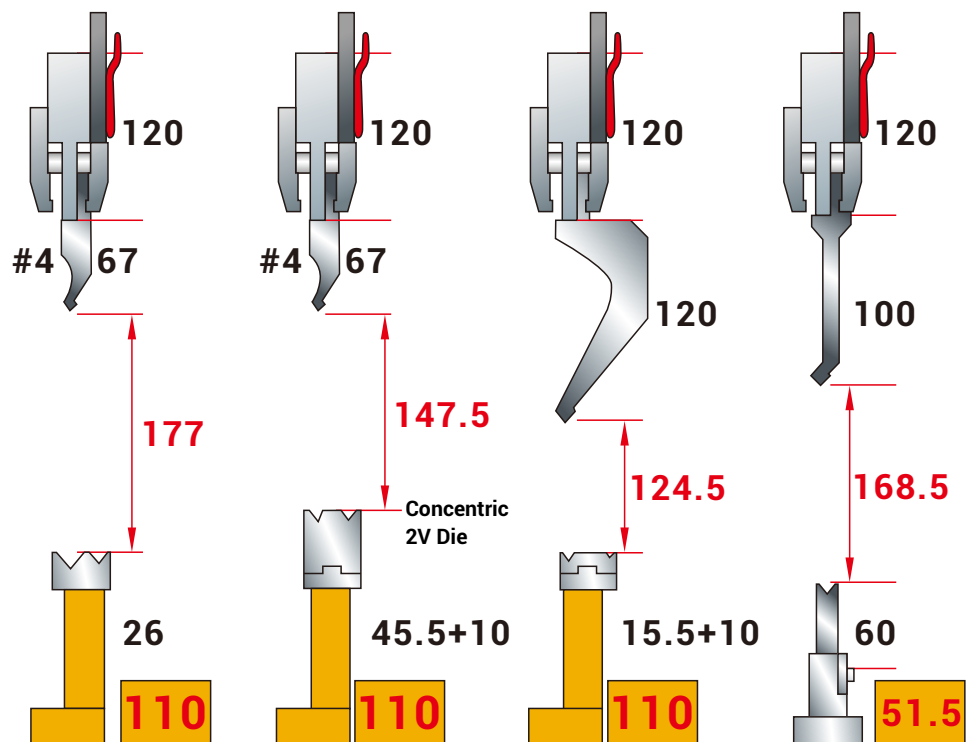
If you can not find what you are looking for, please consult our sales engineers. We accept all file format for your drawings.

1 Combination of Different Tooling Heights

Euro Style Press Brake



By using different combinations, various cutting edge distances can be achieved to process different parts. Distance between the tip of the punch and die should not exceed half of the stroke minus the width of the V-groove.



2 Tooling Storage

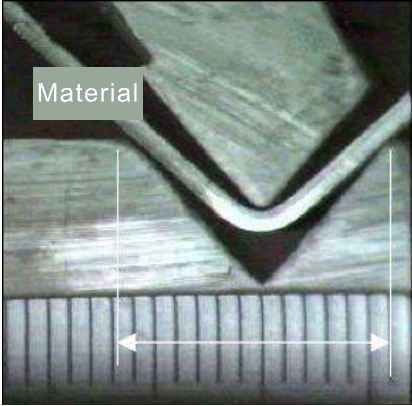
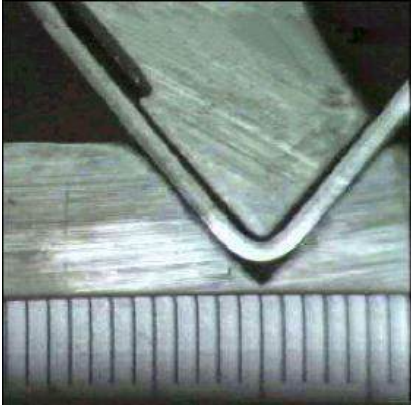
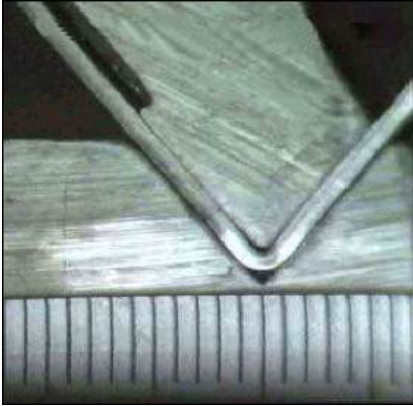
Euro Style Press Brake

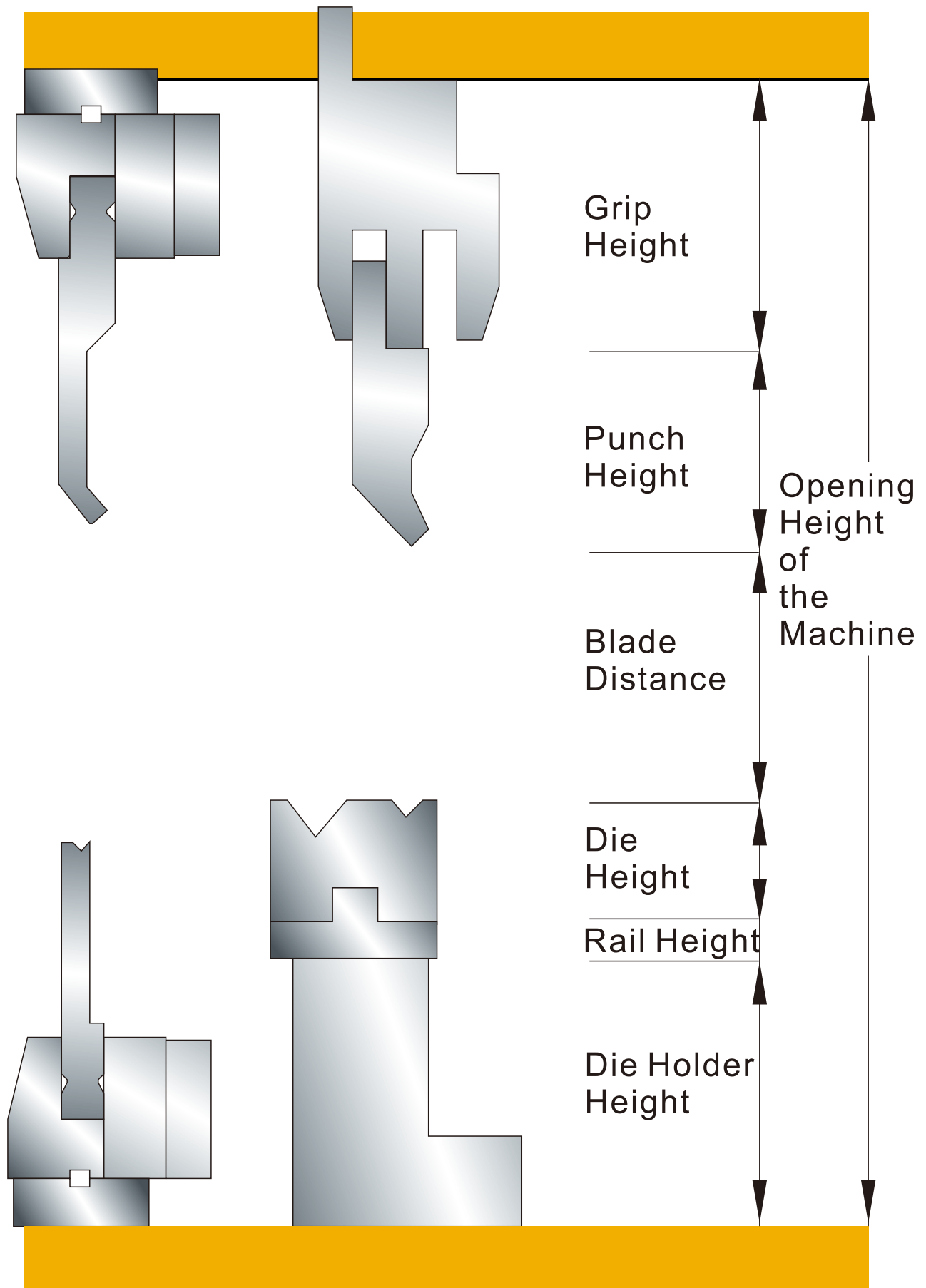


- 100*74*137 cm
- 1.01 CBM
- 209 KG



KETEC Tooling cabinet for press brake

	Air Bending	Coining	Bottoming
Diagram			
V width	12-15T	6-12T	5-6T
Inside Radius	2-2.5T	1-2T	0.5-0.8T
Accuracy	$> \pm 45'$	$\pm 30'$	$\pm 15'$
Bending Accuracy	Large curvature radius circle arc surface.	Good	Good
Features	Any desired bending angle can be achieved.	High precision can be obtained with relatively low pressure.	Marking accuracy can be achieved, and the required bending pressure is 5-8 times that of air bending.



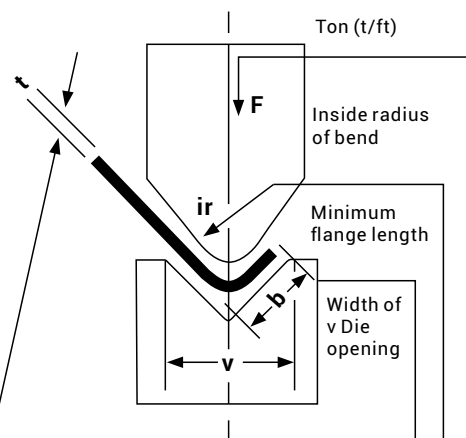


GAUGE CHART

GAUGE #	BRASS & ALUMINUM SHEETS		COLD & HOT ROLLED STEEL SHEETS		ALU., COPPER, BRASS, & STEEL TUBES COPPER SHEETS HOOP STEEL		STAINLESS STEEL SHEETS		GALVANIZED STEEL SHEETS	
	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
7	1443	3.665	.1793	4.554	.180	4.572				
8	.1285	3.264	.1644	4.175	.165	4.191	.17187	4.365	.1681	4.269
9	.1144	2.906	.1495	3.797	.148	3.759	.15625	3.968	.1532	3.891
10	.1019	2.588	.1345	3.416	.134	3.404	.14062	3.571	.1382	3.510
11	.09074	2.305	.1196	3.038	.120	3.048	.125	3.175	.1233	3.1318
12	.08081	2.053	.1046	2.656	.109	2.769	.10937	2.778	.1084	2.753
14	.06408	1.628	.0747	1.897	.083	2.108	.07812	1.984	.0785	1.9939
16	.05082	1.291	.0598	1.518	.065	1.651	.0625	1.587	.0635	1.6129
18	.04030	1.024	.0478	1.214	.049	1.245	.050	1.270	.0516	1.310
20	.03196	.812	.0359	.911	.035	.889	.0375	.9525	.0396	1.005
22	.02535	.644	.0299	.759	.028	.711	.03125	.7937	.0336	.853
24	.02010	.511	.0239	.607	.022	.559	.025	.635	.0276	.701
26	.01594	.405	.0179	.454	.018	.457	.01875	.476	.0217	.551
28	.01264	.321	.0149	.378	.014	.356	.01562	.396	.0187	.474
30	.01003	.255	.0120	.305	.012	.305	.0125	.3175	.0157	.398

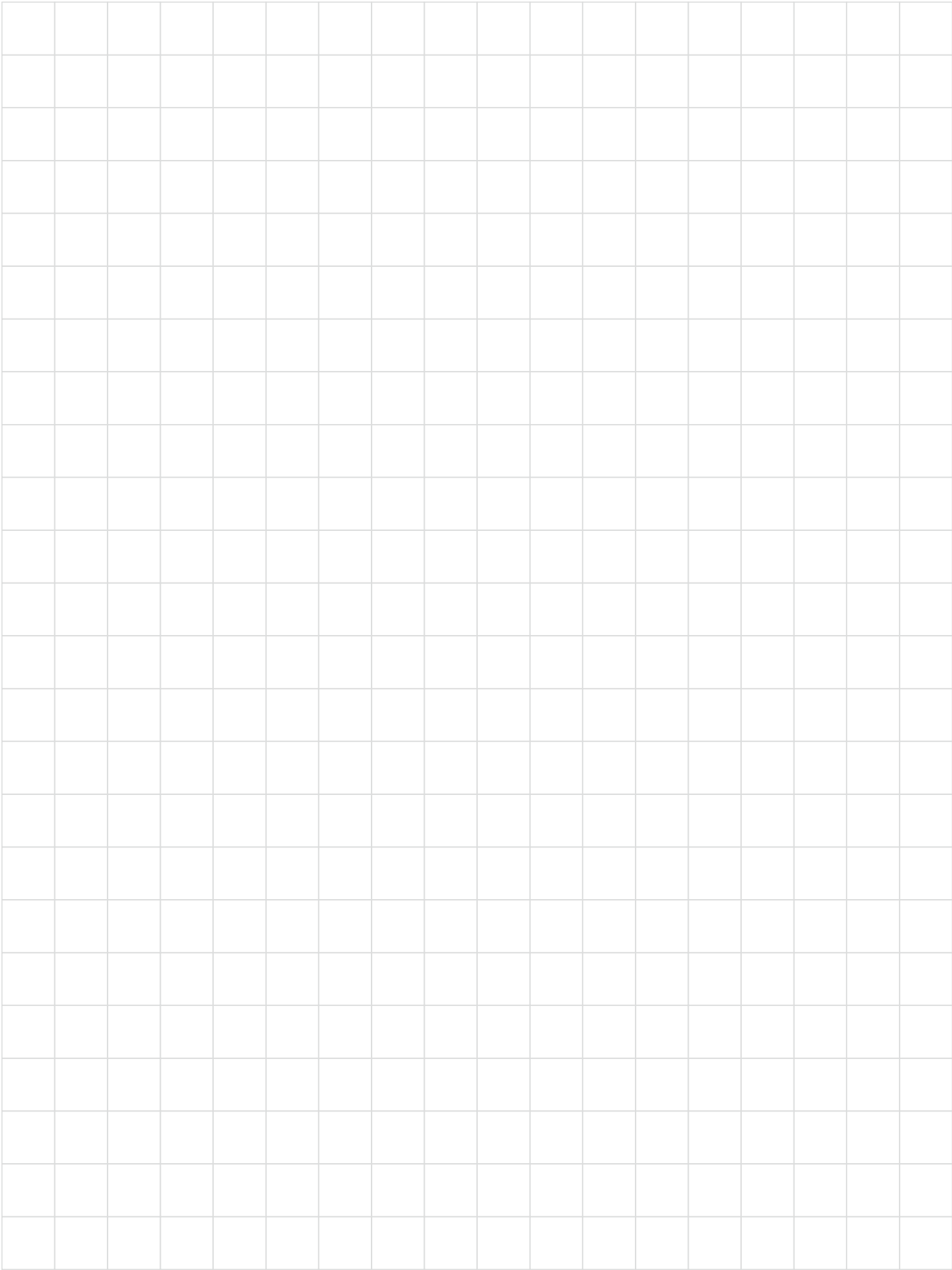
t	Gauge	12 or less	11-5/16"	3/8"-1/2"	3/8"and up
	Inches	0.105" or less	0.120"-0.313"	0.375"-0.500"	0.625"and up
"V"Size		6×t	8×t	10×t	12×t

Minimum bendable flange length



v Die opening

t		Thickness																						
Gauge	Dec	Mid Steel																						
		4	6	7	8	10	12	14	16	18	20	25	32	40	50	63	80	100	100	160	200	250	mm	v
		156	250	281	313	375	500	563	625	688	750	1.000	1.25	1.500	2.000	2.500	3.000	4.000	5.000	16.000	8.000	10.000	inches	b
		.125	.188	.203	.219	.281	.344	.406	.438	.531	.563	.688	.875	1.125	1.375	1.750	2.188	2.188	3.500	14.500	5.500	6.875	inches	ir
		031	031	047	047	063	078	094	109	125	141	156	203	250	313	406	516	625	750	11.031	1.313	1.625	inches	
20	0.036	5.4	3.6	3.0	2.5	2.0	1.7																	
18	0.048		6.8	5.8	4.8	3.7	2.7	2.4	2.0															
16	0.060				7.8	6.2	5.0	4.2	3.5	3.1	2.7													
14	0.075					11.0	8.2	7.0	5.5	4.8	4.1	3.1												
12	0.105						15.0	13.0	11.0	9.4	7.4	5.5	4.0											
11	0.120							16.0	13.0	10.0	7.3	5.0	3.8											
10	0.135									12.0	9.0	6.2	4.7	3.5										
188	0.180										24.0	15.0	11.0	7.5	5.7									
250	0.250											30.0	20.0	14.0	10.5	8.5								
313	0.313													36.0	25.0	18.0	13.0	10.0						
375	0.375															38.0	28.0	20.0	15.0	11.0				
500	0.500																52.0	39.0	30.0	22.0	16.0			
625	0.625																	70.0	52.0	38.0	27.0	20.0	15.0	
750	0.750																			66.0	43.0	32.0	22.0	
1.000	1.000																				90.0	61.0	44.0	
1.250	1.250																					102.0	70.0	





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