Leading
Technology

SHEET METAL
WORKING MACHINES

SINCE
1984

www.hilalsan.com.tr

HİLALSAN®

HILALSAN®

Leading Technology

Kilometer Stones

1984	The production of manual guillotine shears in a 60 m2 workshop at Konya Industrial Estate.
1984	Exported its products to Saudi Arabia for the first time.
1985	Started to produce 12 types of manual guillotine shears.
1989	The number of countries that we export our products reached 8.
1990	Moved to its new 200 m2 workshop in Konya Anadolu Industrial Estate.
1992	The number of countries that we export our products reached 10.
1993	Moved to its new 600 m2 workshop in Konya Zafer Industrial Estate.
2000	Moved to its new 2000 m2 workshop in Busan Organized Industrial Zone
2000	Started to produce 1 meter hand-lever guilottine shears, manual folding machines, guilottine shears with reducer and tube bending machines.
2002	The number of countries that we export our products reached 15, mainly in Europe.
2004	Started to produce Hydraulic Ironworkers.
2005	Started to pruduce deep drawing presses.
2006	Started to produce Hydraulic C Type and hydraulic workshop hydraulic presses.
2008	Started to produce CNC Hydraulic Press Brake and CNC Hydraulic Guillotine Shears.
2012	The number of countries that we export our products reached 30.
2013	Moved to its new factory that has 10.000 m2 closed and a total 15.000 m2 area in Konya Organized Industrial Zone.
2014	Produced its first CNC Tandem Press Brake.
2020	The number of countries that we export our products reached 40.
2021	The first Servo Hybrid CNC Press Brake was produced
2023	Moved to a more modern production facility in Konya Organized Industrial Zone.

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Founded in 1984, HILALSAN has started with manual sheet metal shears and now continues with Hydraulic Ironworkers, CNC Hydraulic Presses, Mechanical Guillotine Shears with Reducer, CNC Hydraulic Guillotine Shears and CNC Hydraulic Press Brakes.

We work for Turkey with our imagination, our most valuable asset based on our foundation, and our high confidence that gives life to these dreams. We are progressing to become a global company by creating added value for our country and the world.

Creating value for our customers, responding to expectations with quality and stability is our priority.

Thanks to our computer-aided design programs, we can produce high-quality, high-precision production lines Equipped with advanced technology to provide our customers with high-performance machines.

Our main goal from our foundation to today; investors and industrialists to make sensitive quality machines, to provide reliable after-sales service and to offer quality at the best competitive price.

We are conscious that reaching our targets is our highest assurance product and service quality. We have to own our products and to be with our customers after-sales.

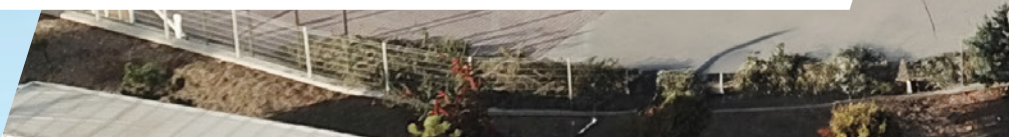
We are shaping all of our products and services based on building long-term relationships with our customers.

Our company has been serving with "HILALSAN" brand in the world markets and has reached to the five continents today, increasing the trust and potential given to its customers every day.

Hilalsan Machinery has aimed to achieve many successes in the future as it is in the past with its young and dynamic staff.

HILALSAN for quality, trust, stability ...

HILALSAN®




HİLALSAN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HYDRAULIC CNC PRESS BRAKE

ULTIMATE

STANDARD EQUIPMENT AND FEATURES

- Y1,Y2,X 3 Axes
- Cybelec Touch8 Touch Screen Colour Control Unit
- Hilalsan Heavy Duty X Axes Back Gauge with Servo Motor
- Bottom Narrow Table
- Support arm with scale & T-Slot & Tilting stop.
- Hilalsan European Type Quick Release Top Tool Clamping (60 ton - 270 ton between)
- European Type Top Tool H:66,6mm 85° R:08mm
- European Type Bottom Tool 4V H:60x60mm 85°
- Front Laser Safety Manual Fiessler Akas FPBS
- Back Safety Light Curtains
- Lighting Lamp
- Stand Type Foot Pedal with Emergency Stop Button

OPTIONAL EQUIPMENT

- CNC Controller Motorized Crowning
- Manual Crowning
- Hilalsan Heavy Duty X,R Axes Back Gauge
- Hilalsan Heavy Duty X,R,Z1,Z2 Axes Back Gauge
- Hilalsan Heavy Duty X,R,Z1,Z2,X5,X6 Axes Back Gauge
- Hilalsan ATF Type X1,X2,R1,R2,Z1,Z2 Axes Back Gauge
- Sliding Rear Door
- Custom Full-length casing
- Sheet Follower
- Oil Heather
- Oil Coolant with Fan
- Hydraulic Top Tool Clamping
- Hydraulic Bottom Tool Clamping
- Central Lubrication Manual
- Central lubrication Motorized
- CE with Manual Fiessler AKAS II M-FMSC

Machine body produced with advanced technology

Excellent bending precision

New generation design with high performance

GENERAL FEATURES

• The machine frame manufactured with the advanced technology with exact tolerances and stress relieved with significant welded components.

All tensile points designed with large radii and strain accumulation and possible welding cracks eliminated.

• The lower and upper tables' inertias designed for optimum value for minimum deformation.

• The top plate intended to positioned vertically so that the roller bearings, piston bearings, and felts can compensate for vertical loads.

• The hydraulic cylinder is designed as double-sided and honed to surface quality of 2 microns. Thus, minimum wear resistance is created for the felts. The cylinder bodies manufactured as SAE 1040 material forged.

• The hydraulic cylinders are bolted to the front of the feet with bolts and cams to provide excellent leveling and load balancing.

• Piston head features: Omega-type felts fitted with full bronze bearings, semi-angled sleeves.

• The pistons are precision ground and hard chrome plated to provide low friction and abrasion resistance when the piston passes through the felts.

• The adjustable top tray slides made from materials that are suitable for little friction resistance. These beds arranged for guiding to move the top table from right to left and front to rear.

• The Hilalsan hydraulic system allows precise usage at all pressure values up to the maximum operating pressure. At the same time, with these pressure values, precise cylinder positioning, synchronization, and repeatability are achieved.

• Backgauge system manufactured following environmental conditions. Backgauge bearings made for heavy conditions with double bearers. Scrapping type bearings used against dust and other particles that will accumulate in the linear guideways against dusty environmental conditions.

• The outer surface of the machine is painted with two layers of paint at least 60 microns in thickness to protect against weather conditions. Paint drying is done gradually in a different time and temperature ranges in state-of-the-art ovens.

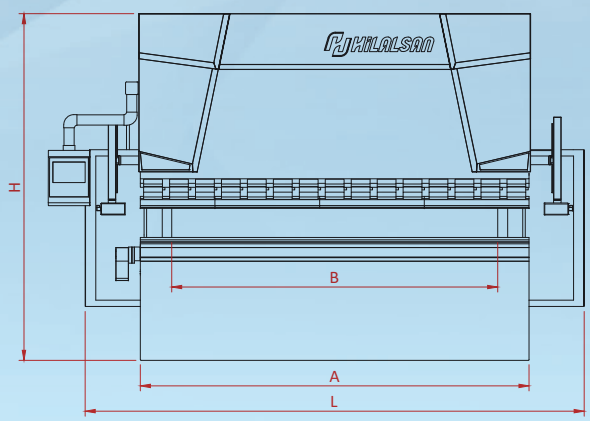
• Standard Y1, Y2, X-axes.

HYDRAULIC CNC PRESS BRAKE

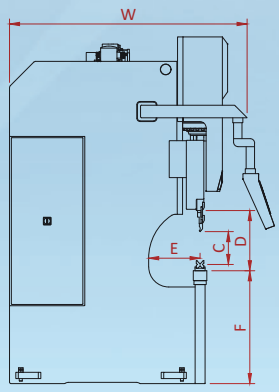
ULTIMATE

Machine Type	Bending force	Bending length	Distance between columns	Stroke	Daylight	Throat depth	Table height	Pit Depth	Support Arm	Y Rapid Speed	Y Axis Bend Speed	Y Return Speed	X Axis Speed	R Axis Speed	Travel in R-axis
	Ton	mm	mm	mm	mm	mm	mm	mm	Pcs	mm/sn.	mm/sn.	mm/sn.	mm/sn.	mm/sn.	mm
		A	B	C	D	E	F	T							
1560	60	1600	1300	215	435	310	850	--	2	140	10	120	350	40	200
2080	80	2100	1700	215	345	310	900	--	2	140	10	120	350	40	200
26100	100	2600	2200	265	485	410	900	--	2	140	10	110	350	40	200
3100	100	3100	2600	265	485	410	900	--	2	140	10	110	350	40	200
3135	135	3100	2600	265	485	410	900	--	2	140	10	100	350	40	200
3175	175	3100	2600	265	485	410	900	--	2	130	10	100	350	40	200
3220	220	3100	2600	265	485	410	900	--	2	130	10	100	350	40	200
3270	270	3100	2600	265	485	410	900	--	2	110	9	100	350	40	200
3320	320	3100	2600	365	585	510	940	--	2	100	9	90	350	40	200
3400	400	3100	2600	365	585	510	950	--	2	90	8	80	350	40	200
37175	175	3700	3200	265	485	410	950	--	2	130	10	100	350	40	200
37220	220	3700	3200	265	485	410	950	--	2	130	10	100	350	40	200
37320	320	3700	3200	365	585	410	950	--	2	100	9	90	350	40	200
4135	135	4100	3600	265	485	410	900	--	2	120	10	100	350	40	200
4175	175	4100	3600	265	485	410	950	--	2	120	10	100	350	40	200
4220	220	4100	3600	265	485	410	950	--	2	110	9	100	350	40	200
4270	270	4100	3600	265	485	410	960	--	2	100	8	90	250	40	200
4320	320	4100	3600	365	585	510	1000	--	2	90	8	80	350	40	200
4400	400	4100	3600	365	585	510	1050	--	2	90	8	80	350	40	200
4500	500	4100	3200	365	585	510	1050	--	2	80	8	80	350	40	200
6220	220	6100	5100	265	585	410	1100	--	3	80	8	80	350	40	200
6320	320	6100	5100	365	585	510	1150	--	3	80	8	80	350	40	200
6400	400	6100	5100	365	585	510	1250	--	3	70	8	70	350	40	200
6500	500	6100	5100	365	585	510	1100	800	3	70	8	70	350	40	200
6600	600	6100	5100	365	585	510	1200	800	3	70	7	70	350	40	200

HİLALSAN has right to change catalogue values and machine technical details without notice. Misprints are not restrictive.



Travel in X-axis			Motor Power	Oil Capacity	Length	Width	Height	Approximate Weight
500	750	1000	Kw	Lt	mm	mm	mm	Kg
mm	mm	mm			L	W	H	
S	--	Op.	5,5	150	2500	1700	2650	3950
S	--	Op.	7,5	150	3100	1800	2750	4930
	S	Op.	11	150	3600	1900	2750	6500
--	S	Op.	11	250	4000	1900	2750	7500
--	S	Op.	15	250	4000	1900	2750	8500
--	S	Op.	18,5	250	4060	1900	2800	9500
--	S	Op.	22	250	4060	1900	2850	11000
--	S	Op.	22	250	4060	1900	2850	12500
--	S	Op.	30	350	4060	2150	3300	16000
--	S	Op.	37	350	4060	2150	3300	19000
--	S	Op.	18,5	250	4600	1900	2900	11000
--	S	Op.	22	250	4600	1900	2900	12600
--	S	Op.	30	350	4700	2200	3250	18000
--	S	Op.	15	250	5000	1900	2750	10500
--	S	Op.	18,5	250	5000	1900	2850	11600
--	S	Op.	22	250	5050	1900	2900	13500
--	S	Op.	22	250	5050	1900	3000	15000
--	S	Op.	30	350	5100	2200	3300	19500
--	S	Op.	37	350	5100	2300	3400	23000
--	S	Op.	37	400	5100	2300	3550	27000
--	S	Op.	22	350	6900	1900	3300	20500
--	S	Op.	30	350	7000	2200	3600	27000
--	S	Op.	37	500	7100	2300	3700	33000
--	S	Op.	37	500	7200	2300	3700	40000
--	S	Op.	45	500	7300	2300	3700	48000



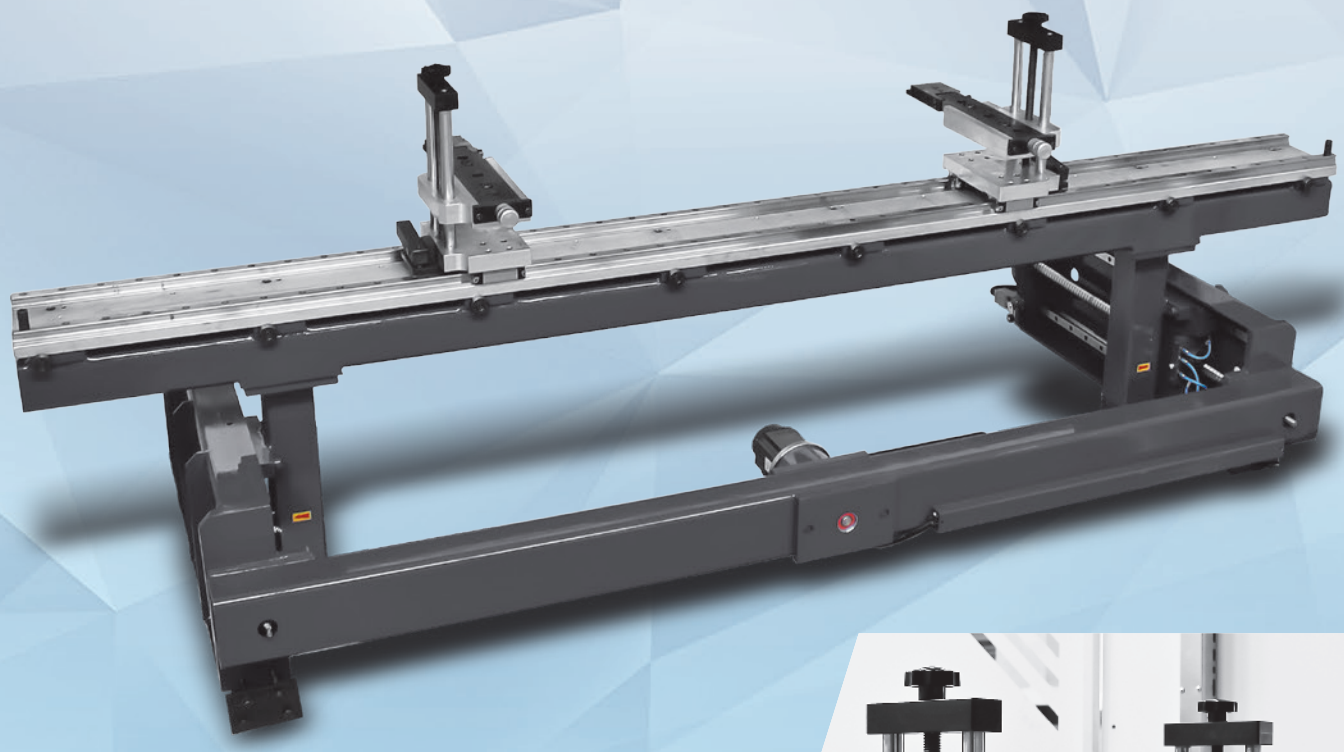
HYDRAULIC CNC PRESS BRAKE

ULTIMATE

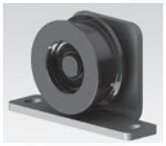
The most crucial factor for precision bending in press brakes is the Backgauge system.

Hilalsan design features a unique, powerful and precise back gauge system that works on linear guideways at side counters and large-sized ball screws. The special design has robust construction due to its strong mechanical structure and can withstand large loads.

The back gauge finger blocks move on top of the double-rail and aluminum-plated top profile. These back gauge finger blocks are very sensitive and can be adjusted from any point.

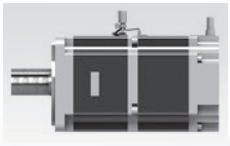


Backgauge Finger



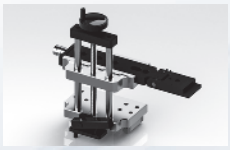
H: Belt tensioning mechanisms used to prevent the trigger belts, which engage the X axis motor, from making a gap.

D: High resolution servo motor in the precision positioning axis.



C: The X Axis console is manufactured with impact-resistant system.

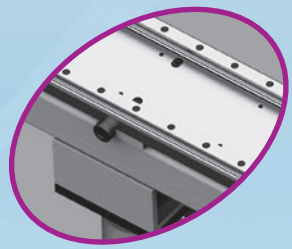
F: Resistant to wear and deformation, precisely adjustable, and heat treated backgauge finger blocks.



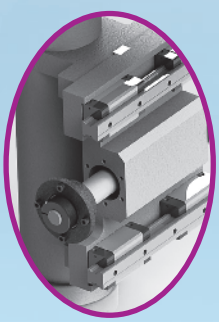
F: Mechanical braking system to prevent movement of fingers due to shocks and vibrations during operation.

G: Thanks to the tapered bearing made of tapered roller at the ends of the ballscrews, the cavities which could be formed in the ballscrew position are removed.

A: Due to the elastic deformations that can occur during manufacturing and the plastic deformations that can occur due to the collapses over time, the parallelism disturbances that can occur, due to the screws in these shafts can be adjusted very precisely.



A: Movable top profile designed to absorb deformations that may occur in the trapezoid and precisely calibrate the distance to the bottom tool.



B: 4 pcs square type double row linear guideways and ballscrew are used so that our consoles do not cause any gap due to the collapses.

E: Strengthened steel construction and vibration-proof and durable side console.

HYDRAULIC CNC PRESS BRAKE

ULTIMATE

The most crucial factor for precision bending in press brakes is the Backgauge system.

Hilalsan design features a unique, powerful and precise back gauge system that works on linear guideways at side counters and large-sized ball screws. The special design has robust construction due to its strong mechanical structure and can withstand large loads.

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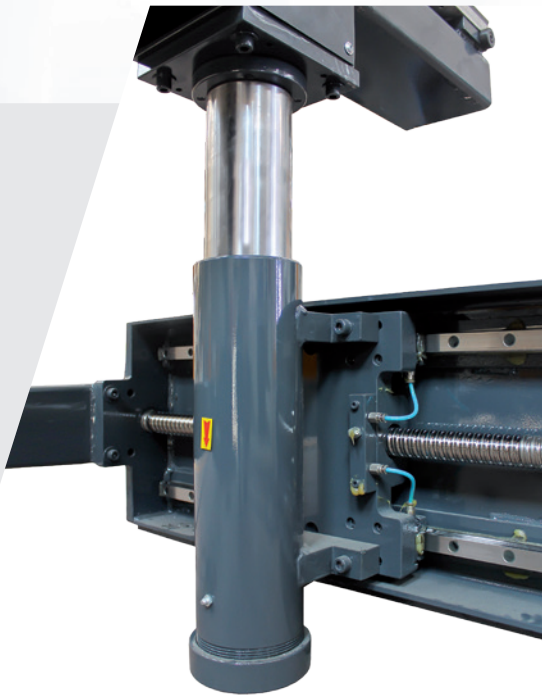
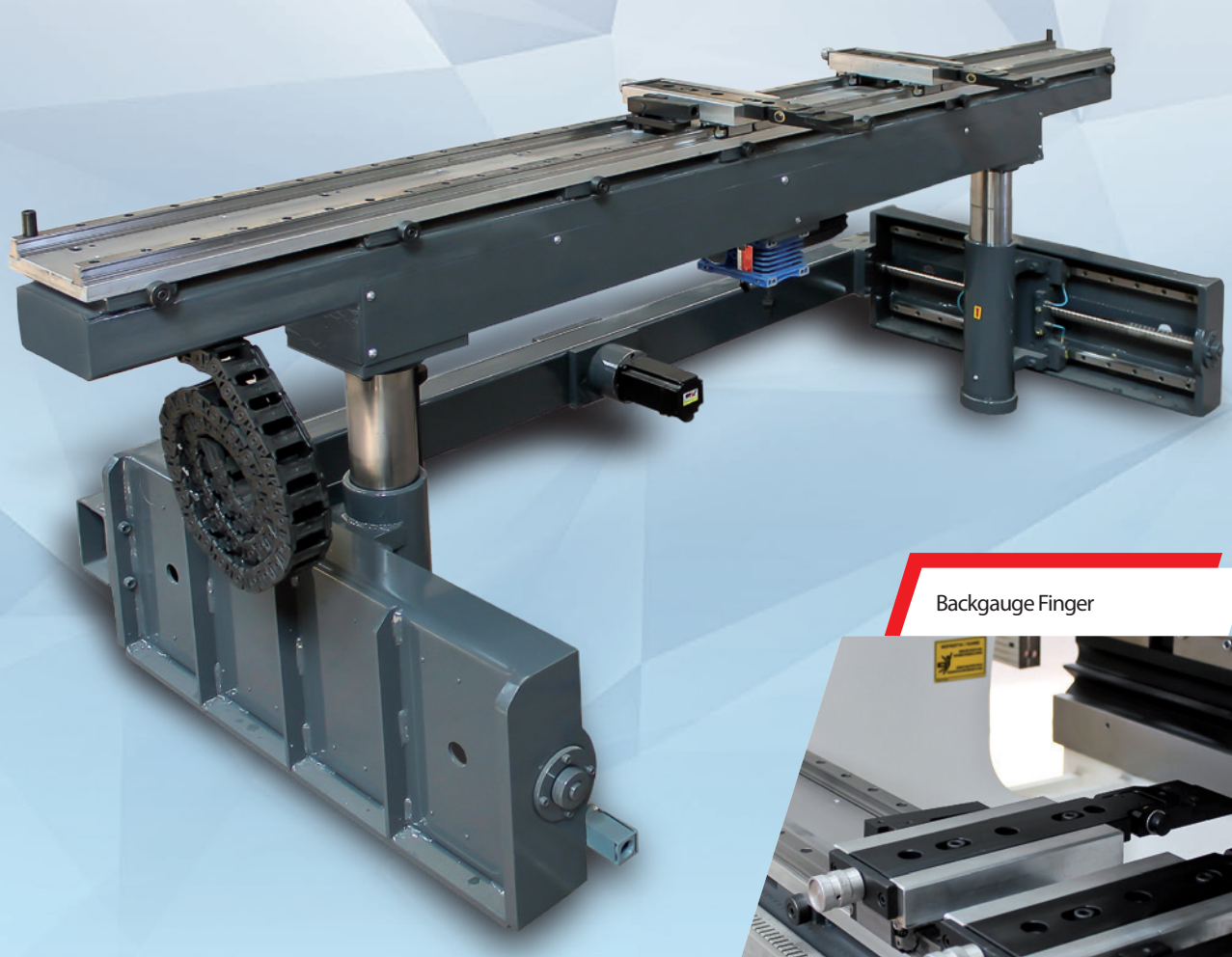
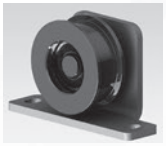




Backgauge Finger



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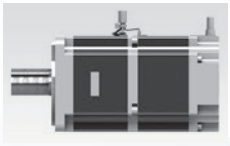
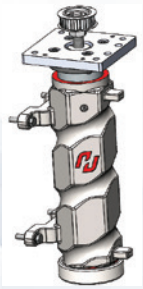
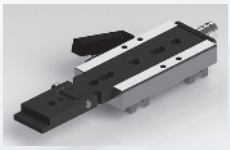




C: The R Axis console is manufactured with a ball screw which is movable with a 200 mm stroke, with impact-resistant and anti-backlash system.

F: Resistant to wear and deformation, precisely adjustable, and heat treated backgauge finger blocks.



F: Mechanical braking system to prevent movement of fingers due to shocks and vibrations during operation.

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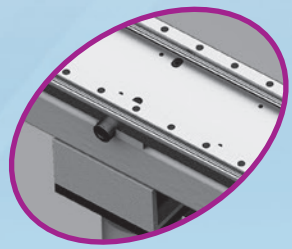

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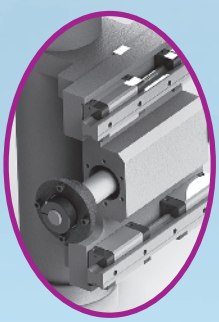
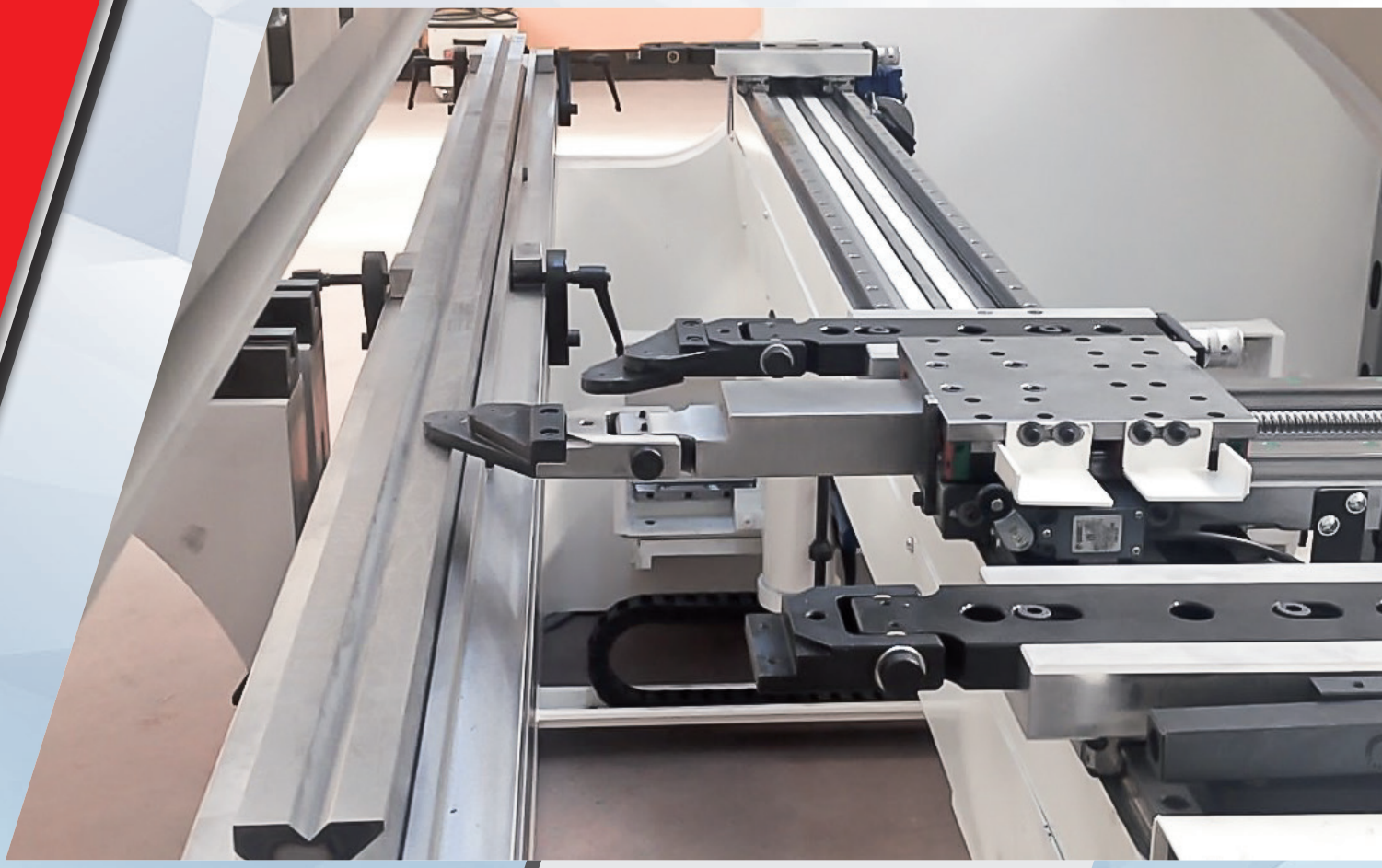


B: 4 pcs square type double row linear guideways and ballscrew are used so that our consoles do not cause any gap due to the collapses.

E: Strengthened steel construction and vibration-proof and durable side console.

HYDRAULIC CNC PRESS BRAKE

ULTIMATE SERIES



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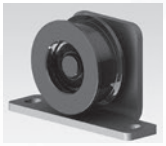

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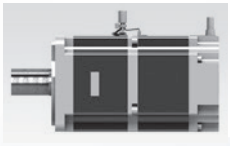

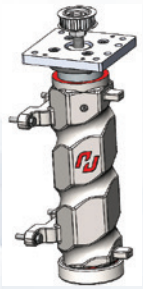

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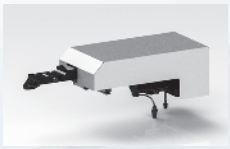

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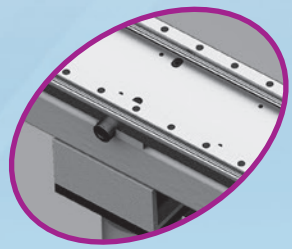

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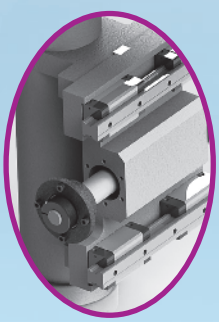


B: 4 pcs square type double row linear guideways and ballscrew are used so that our consoles do not cause any gap due to the collapses.

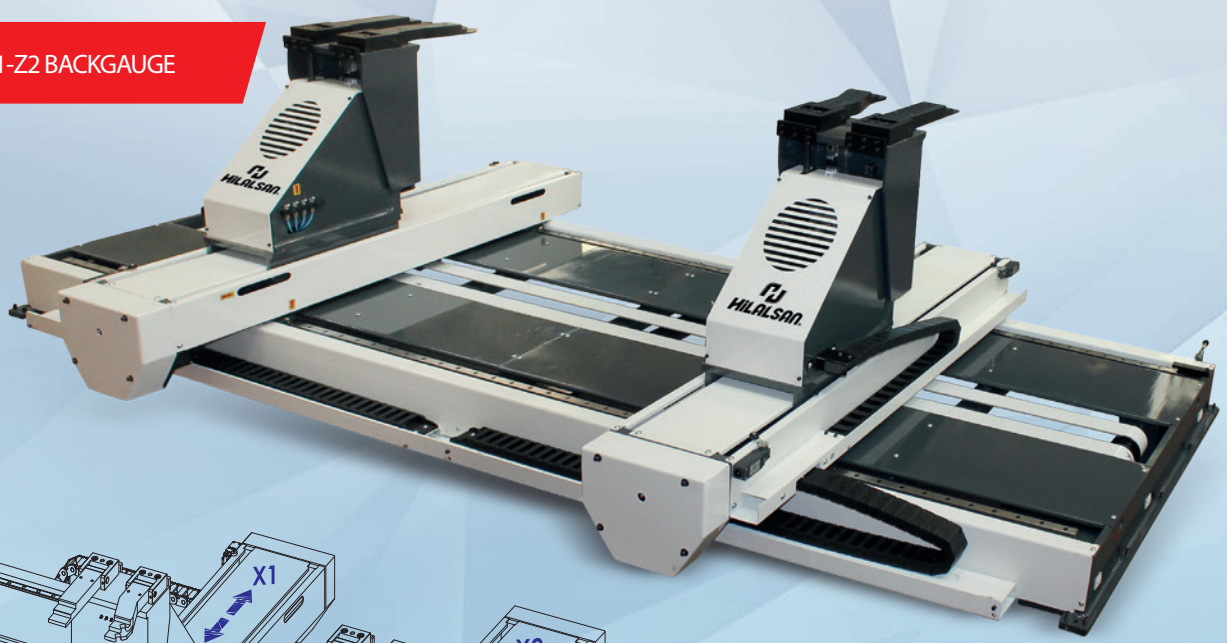
E: Strengthened steel construction and vibration-proof and durable side console.

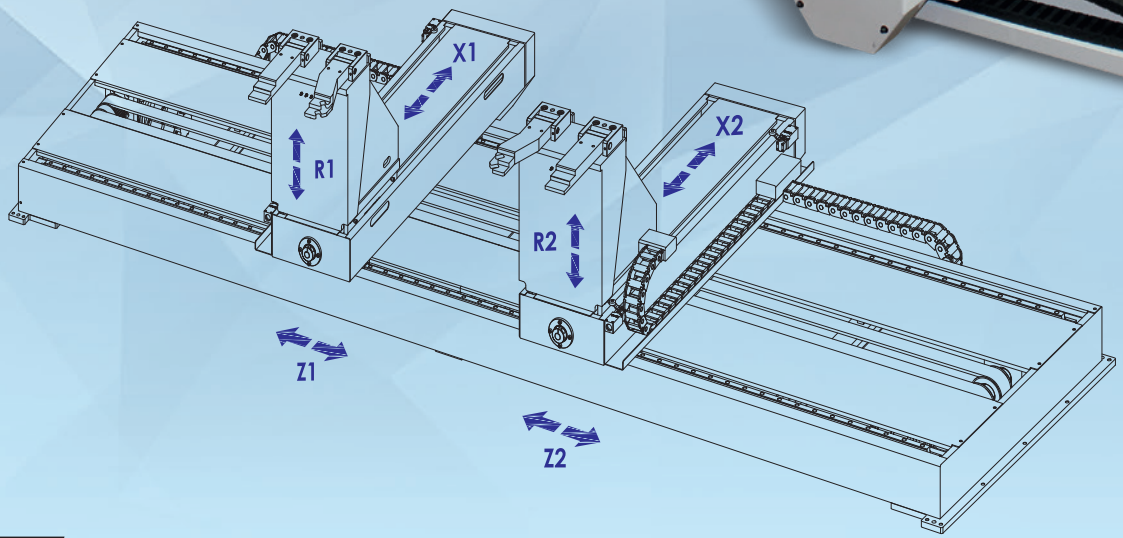
HYDRAULIC CNC PRESS BRAKE

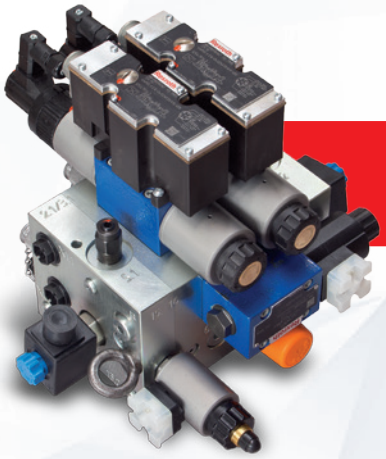
ULTIMATE SERIES

X - R - Z1 - Z2 BACKGAUGE

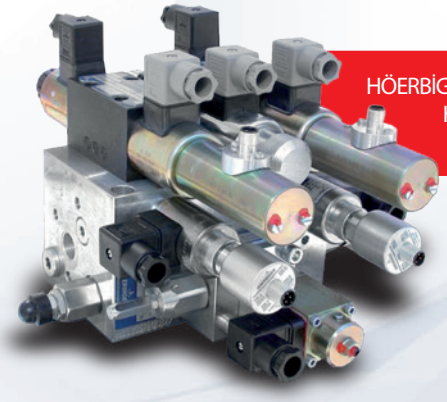
ATF X1-X2-R1-R2-Z1-Z2 BACKGAUGE





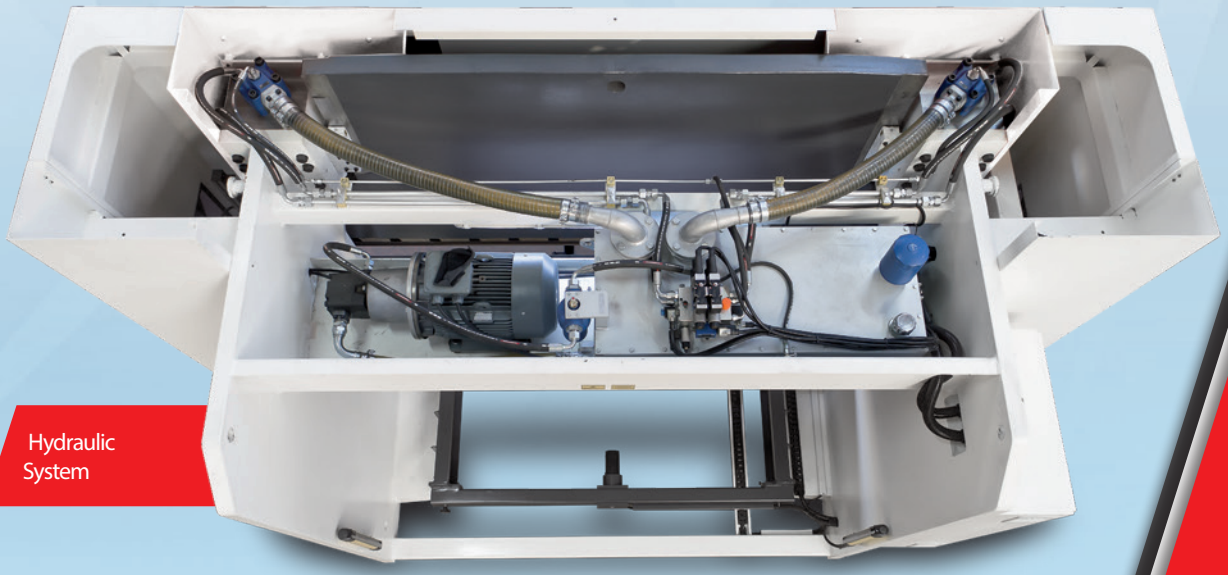


REXROTH Hydraulic Block



HÖERBİGER-HAWE Hydraulic Block

Modular Hydraulic Tank



Hydraulic System

Hydraulic Block type may vary depending on the machine construction.

HYDRAULIC CNC PRESS BRAKE

ULTIMATE SERIES

CYBELEC TOUCH8

- 7" Colored Touch Screen.
- 2D graphic profile creation with manual sequencing (option).
- Bending sequences and programs can be memorized.
- Easy single bends with the EasyBend page.
- USB Flash Memory port for data transfer/backup
- User Language Options
- Easy Tool Drawing

CYBELEC TOUCH12 2D

- 12" Colored Touch Screen.
- 2D graphic profile creation with manual sequencing (option).
- Bending sequences and programs can be memorized.
- Easy single bends thanks to the "EasyBend" page.
- USB Flash Memory port for data transfer/backup
- User Language Options
- Easy Tool Drawing

CYBELEC TOUCH15 2D

- 15" modern streamlined glass surface touch screen that can be used with gloves.
- User friendly HMI thanks to intuitive programming and easy to set up with dedicated wizards (autotuning).
- 2D graphical profile drawing (Touch Profile) and precise 2D program creation.
- Automatic bending sequence calculation.
- Easy single bends thanks to the EasyBend page.
- Wide storage capacity.
- Internal backup and restore functions.
- Wireless communication for extended diagnostics and updates (with laptop).

CYBELEC VISIPAC 192D

- 19" modern streamlined glass surface touch screen that can be used with gloves
- User friendly HMI thanks to intuitive programming
- 2D graphic profile and 3D viewer
- Automatic bending sequence calculation
- Tools import
- Preliminary / Final bend
- Hemming management

CYBELEC VISITOUCH 19 MXIMP 3D

- 19" modern streamlined glass surface touch screen that can be used with gloves.
- User friendly HMI, similar to the CybTouch's one, thanks to an intuitive programming and dedicated set-up wizards (autotuning).
- Full 3D visualisation and simulation.
- Parts management with DXF flat pattern and 3D format files import.
- Automatic solutions of complex parts: automatic bend sequencing, gauging, tooling and auto segmentation.
- Running under Windows 7 for multitasking and networking.
- Internal backup and restore functions.
- Outstanding diagnostic tools.

DELEM DA58T 2D

- 15' Colored Touch Screen.
- 2D graphic profile creation with automatic sequencing.
- Automatic bend sequence calculation and collision detection
  Full 3D machine set-up with multiple tool stations
- USB Flash Memory port for data transfer/backup
- User Language Options

DELEM DA66T 2D

- 17' Colored Touch Screen.
- 2D graphic profile creation with automatic sequencing.
- On-screen finger profile drawing. • Touch Screen Scaling • Full 3D Simulation
- 1 GB Hard Disk Drive (HDD) - 256 MB part memory
- Windows Operating System • User Language Options
- Automatic bend sequence calculation and collision detection & Full 3D machine set-up with multiple tool stations • USB Flash Memory port for data transfer/backup
- RJ45 Ethernet for network
- Delivered with offline software (This software allows you to create, calculate, and control the feasibility of parts on a desktop/laptop computer at the office)

DELEM DA69T 3D

- 17' Colored Touch Screen.
- 2D & 3D graphic profile creation with automatic sequencing.
- On-screen finger profile drawing. • Touch Screen Scaling • Full 3D Simulation
- 1 GB Hard Disk Drive (HDD) - 256 MB part memory
- Windows Operating System • User Language Options
- Automatic bend sequence calculation and collision detection & Full 3D machine set-up with multiple tool stations • USB Flash Memory port for data transfer/backup
- RJ45 Ethernet for network
- Delivered with offline software (This software allows you to create, calculate, and control the feasibility of parts on a desktop/laptop computer at the office)

HYDRAULIC CNC PRESS BRAKE

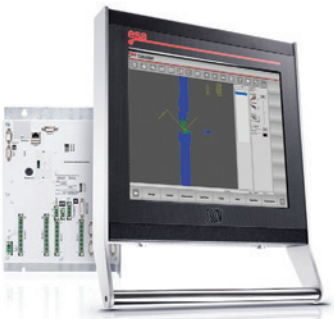
ULTIMATE SERIES

ESA S630 2D

- 10"Touchscreen Color Display.
- Creating 2D Graphics profile with automatic convolution sequence.
- 3D Simulation.
- Part Scratching with touchscreen.
- Bending sequences and programs can be stored in memory.
- Easy single bending page.
- USB memory port for data transfer / backup.
- Windows operating system
- Windows networking with Ethernet connectivity
- User Language option

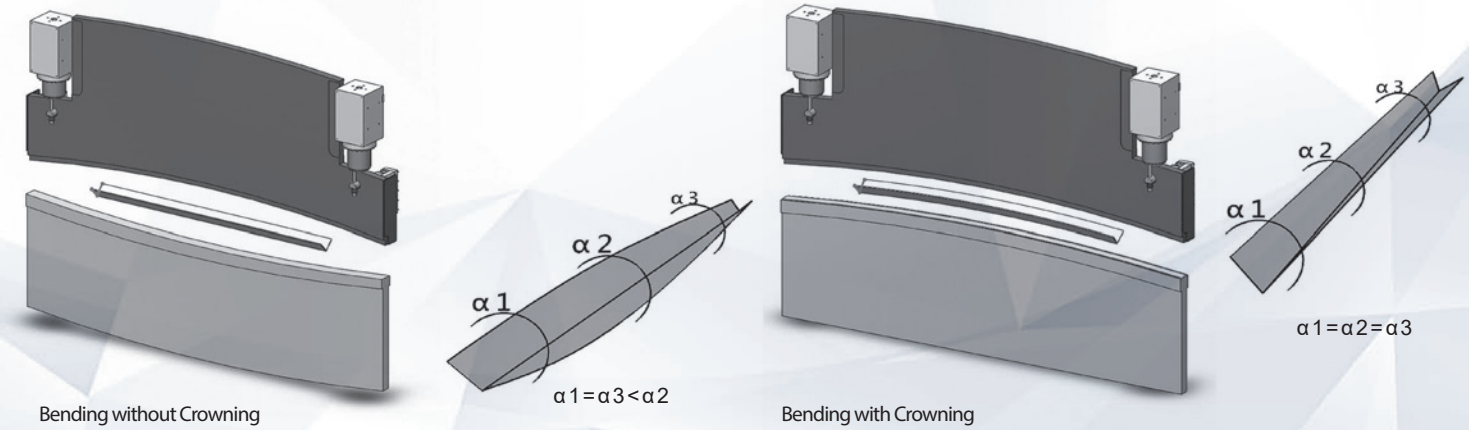
ESA S640 2D

- 15"Touchscreen Color Display.
- Creating 2D Graphics profile with automatic convolution sequence.
- 3D Simulation.
- Part Scratching with touchscreen.
- Bending sequences and programs can be stored in memory.
- Easy single bending page.
- USB memory port for data transfer / backup.
- Windows operating system
- Windows networking with Ethernet connectivity
- User Language option



ESA S660W 3D

- 19"Touchscreen Color Display.
- Creating 3D Graphics profile with automatic convolution sequence.
- 3D Simulation.
- Part Scratching with touchscreen.
- Bending sequences and programs can be stored in memory.
- Easy single bending page.
- USB memory port for data transfer / backup.
- Windows 7 operating system
- 20 GB HDD
- Windows networking with Ethernet connectivity
- User Language option



Bending without Crowning

Bending with Crowning

Advantages of crowning to achieve a constant angle;

A press brake's bending precision is affected by the deviations of the upper and lower table as well as other factors.

Press brakes deviate from the opposite direction.

Penetration of the force obtained into the tool is not constant, and the angle is not the same over the length of the machine.

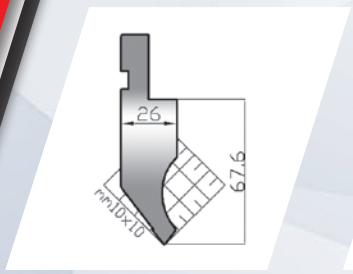
The independent right and left axes (Y1 and Y2) controlled both by proportional valves and linear position control systems.

The crowning system distributes the bending force equally to each point of the bending part to ensure correct bending results.

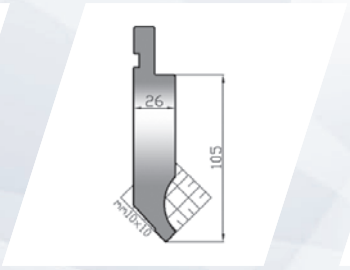
Manual Crowning

CNC Controller Motorized Crowning

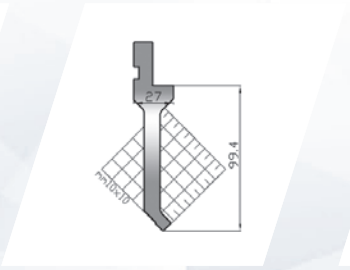
ULTIMATE SERIES



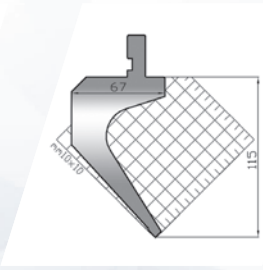
110/75
max 1000 kN/mt



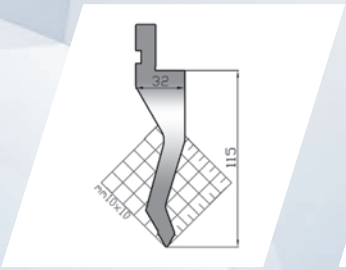
110/75/h105
max 1000 kN/mt



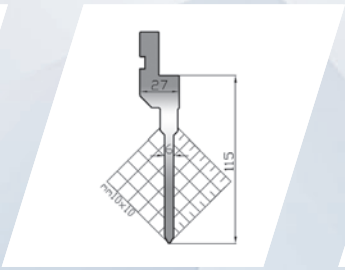
143/88
max 500 kN/mt



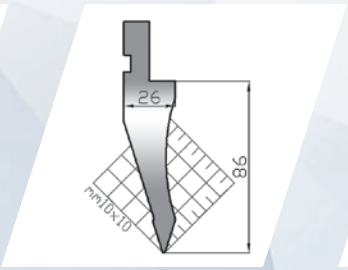
141/85
max 700 kN/mt



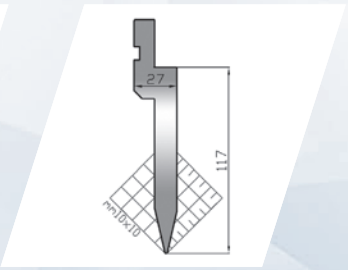
134/60
max 700 kN/mt



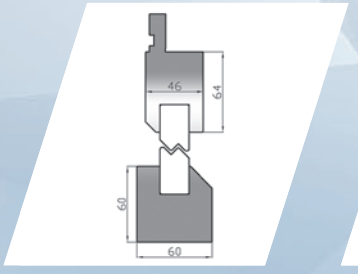
151/60
max 500 kN/mt



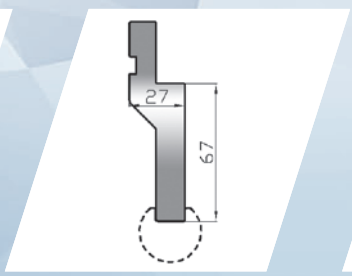
112/35
max 700 kN/mt



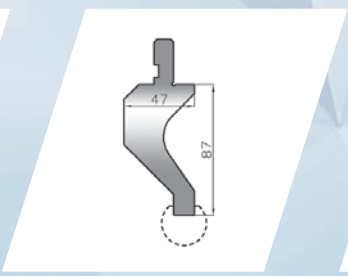
122/26
max 1000 kN/mt



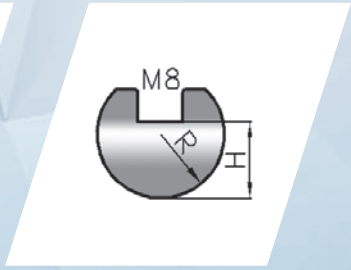
130
max 1000 kN/mt



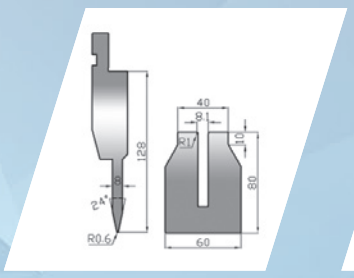
119 h67
max 800 kN/mt



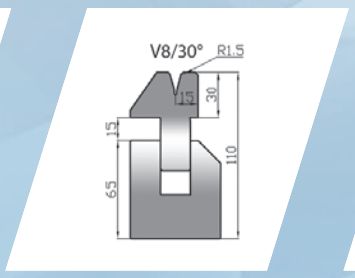
119c h87
max 500 kN/mt



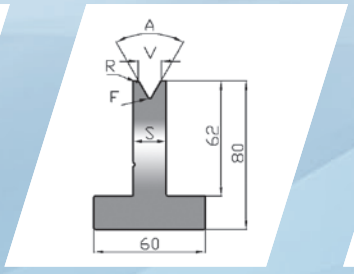
305



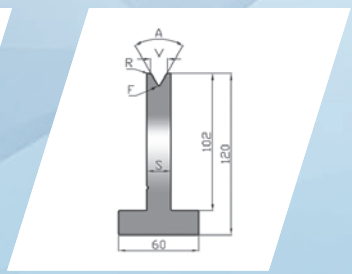
138 l8+m8
max 500 kN/mt



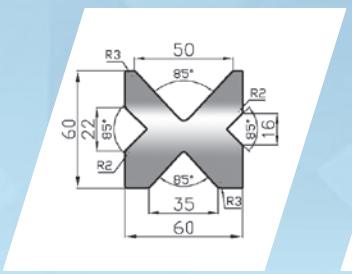
306/30 v8
max 800 kN/mt



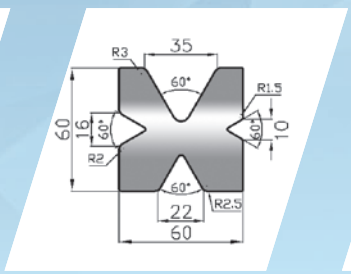
220 h80
max 250-1000 kN/mt



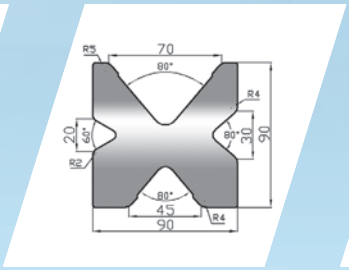
420 h120
max 250-1000 kN/mt



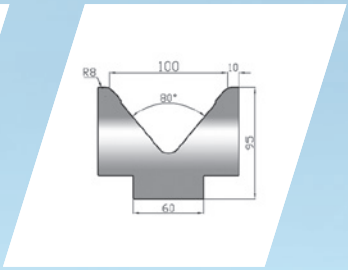
209/v4
max 800 kN/mt



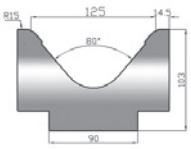
210/v4
max 600 kN/mt



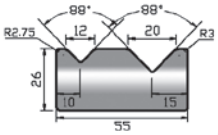
203/v4
max 600 kN/mt



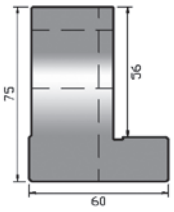
211/100
max 1000 kN/mt



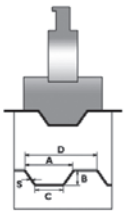
211/125
max 1000 kN/mt



214/88
max 1000 kN/mt

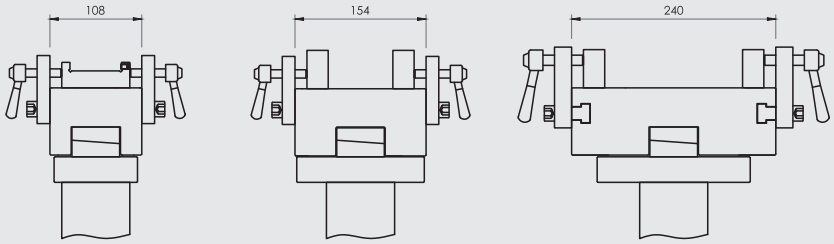


408/75

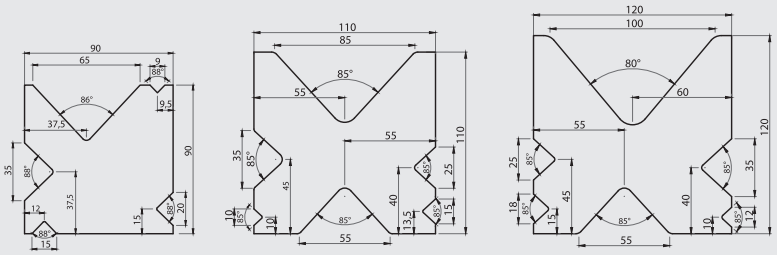


SP14

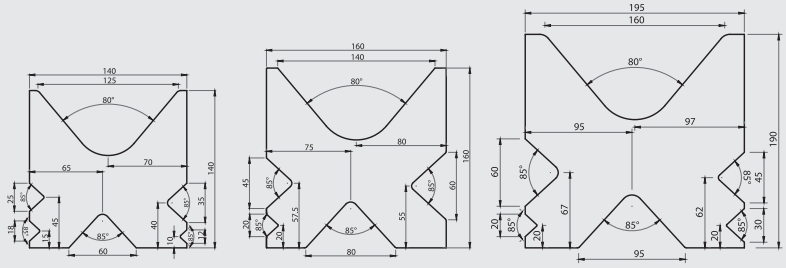
Bottom Table Types



Multi V Bottom Tables

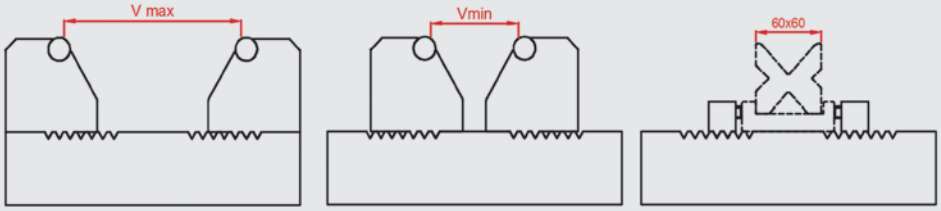


Multi V Bottom Tables



Adjustable Bottom Tables

V 60-80-100-120-140-160 / V 60-80-100-120-140-160-180-200 / V 60-80-100-120-140-160-180-200-220-240



HYDRAULIC CNC PRESS BRAKE

ULTIMATE SERIES

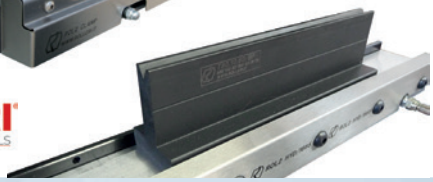
WILA Type
Bottom Tool
Hydraulic
Clamping System

WILA Type
Top Tool
Hydraulic
Clamping System

WILA

Rolleri European Type
Hydraulic Top Tool
Clamping

ROLLERI INNOVATIVE TOOLS

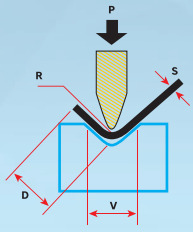


Rolleri European Type
Hydraulic Bottom Tool
Clamping

ROLLERI INNOVATIVE TOOLS

BENDING FORCE CHART

V	D (Min)	R	S (min)																				
			0,5	0,8	1	1,2	1,5	1,8	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10	12	15	18	20
6	5	1	2,5	6,5	10																			
8	6	1,3	2	5	8	11																		
10	7	1,7	1,5	4	6	9	13																	
12	9	2		3	5	7	11	16																
15	12	2,7			4	6	9	13	16															
20	15	3,3				4	7	10	12	19														
26	18	4,2					5	7,5	9	14	21													
30	22	5						6,5	8	12	19	24												
32	23	5,4							7,5	11,6	17	23	30											
37	25	5,8								10	14,5	20	26	33										
42	29	6,7									13	17	23	29	35,5									
45	32	7,5										16	21	27	33	48								
50	36	8,3											19	24	30	43	58							
60	43	10												20	25	36	49	64						
70	50	11,5													21	31	42	55	69					
80	57	13,5														27	37	48	60	75				
90	64	15															32	42	54	66	95			
100	71	17																38	48	60	86	134		
130	90	22																	37	46	66	103	149	
180	130	30																		33	48	75	107	133
200	145	33																			43	67	97	119
250	180	42																				54	77	95



□ : Nominal Working Capacity (Ton)
L : Maximum bending length
Table L = 1000mm
V : Tool Width (mm)
D : Minimum sheet bending distance (mm)
R : Bending Radius
S : Material Thickness (mm)
$\bar{V}$: Material Tensile Strength ($\bar{V}$=42 kg/mm2)
P : Bending Force (Ton)

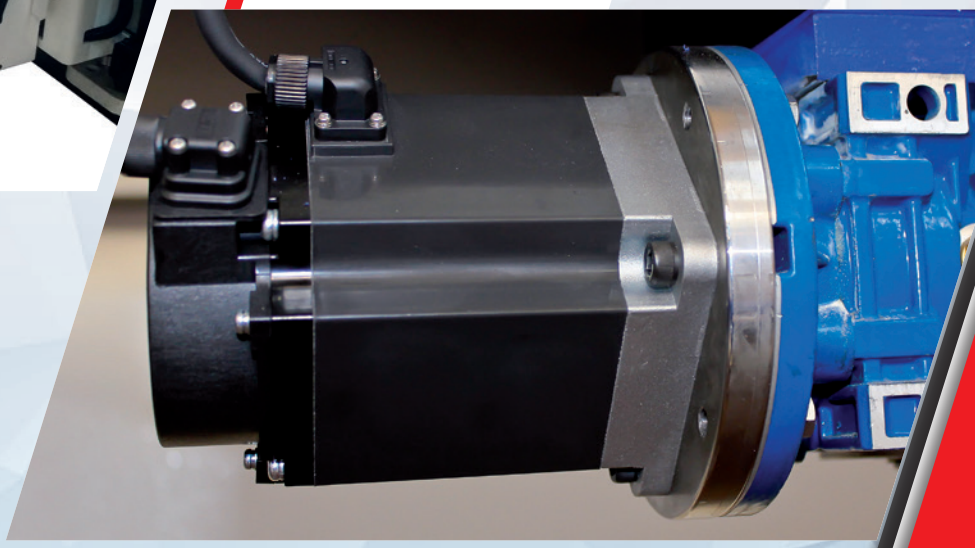
$$P = \frac{1.42 \times \bar{V} \times S^2 \times L}{1000\ V} \quad \text{(Ton)}$$

HİLALSAN®

Leading Technology

Sheet Follower

Servo Motors



Drivers

The movement of the back-gauge is operated by the CNC control unit in hydraulic press brakes.

The high performance servo motors move the bearing axes.

Precision parts are produced by these motors. The electrical circuit components used are Siemens, Telemecanique and Schneider brand products.

www.hilalsan.com.tr

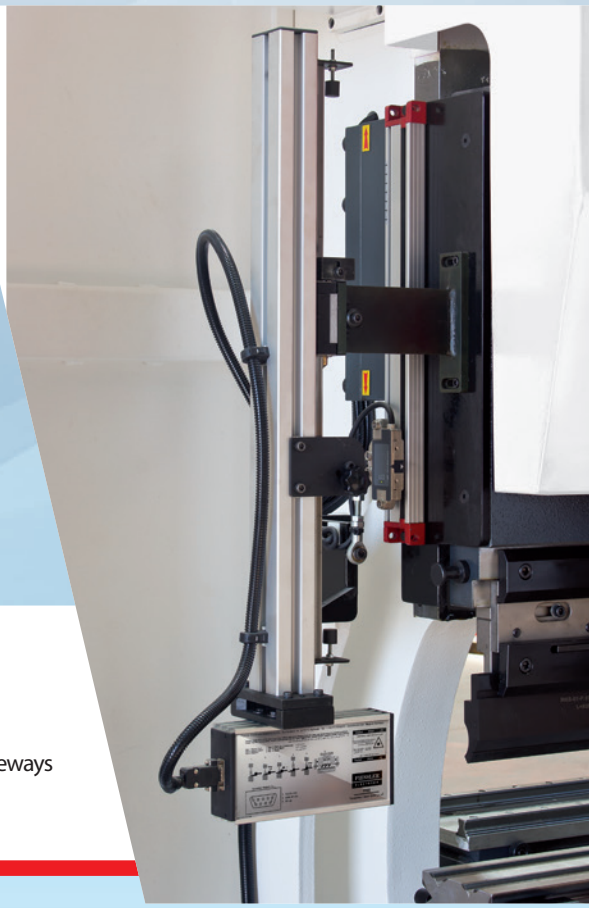
HYDRAULIC CNC PRESS BRAKE

ULTIMATE SERIES

Stand Type
Foot Pedal

Magnescales

Easily adjustable
front Laser
finger protection
with linear guideways
AKAS II M-FMSC



Easily adjustable
front Laser
finger protection
with linear guideways
AKAS FPBS

Quick & Easy Adjustable Support Arms.

It is mounted in front of the machine in such a way as to move on a linear slide system and on a ball bearing.

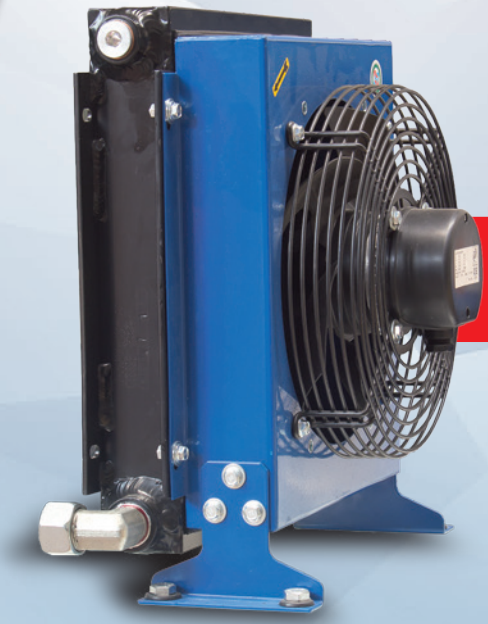
It is easy to use by taking the desired position even when lightly pushed, and it is also possible to adjust it vertically.

Hilalsan European
Type Quick Release
Top Tool Clamping

Bottom Narrow Table

ULTIMATE SERIES

Manual
Central
Lubrication



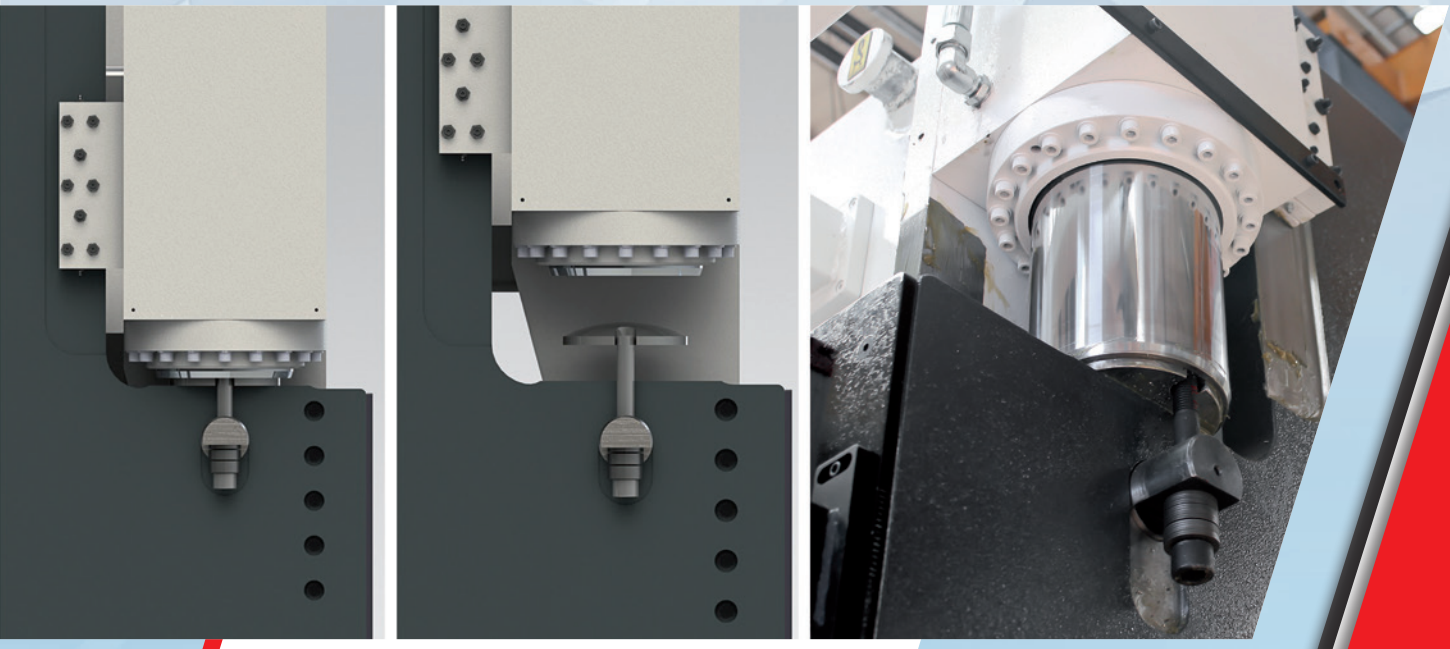
Oil Cooler
with fan

Motorized Central Lubrication

Oil Heaters

The bedding of the top table kept longer to avoid stretch during bending and easy to slip.

To keep the bedding outside of the columns provides an advantage in box bends.



The top plate connections are mounted with double springs as well as spherical connection to the cylinders with double safety.

The parallelism with the top plate can be adjusted more precisely and the proportional valves can work synchronously with each other.

HYDRAULIC CNC PRESS BRAKE

ULTIMATE SERIES

The outer surface of the machine painted with two layers of paint at least 60 microns in thickness to protect against weather conditions.

Paint drying is done gradually in different time and temperature ranges in state-of-the-art ovens.

The press brake bodies machined in 5 Axis CNC machines can make more precise bendings and to reduce the friction coefficients to the minimum level.

HYDRAULIC CNC PRESS BRAKE

ULTIMATE SERIES

HİLALSAN®

Leading
Technology

www.hilalsan.com.tr

CNC VARIABLE RAKE HYDRAULIC GUILLOTINE SHEAR

HYPER SERIES

STANDART FEATURES

- Elgo P40T Touch Screen Colour Control Unit
- Automatically adjusted blade gap by CNC
- Automatically adjusted cutting length by CNC
- Automatically adjusted rake angle by CNC
- Proportional pressure setting
- Full Length flip-up finger guard cage
- Shadow line & Lighting
- Ball integrated front tables
- Back safety Light Curtains
- Hilalsan Ballscrew back gauge, 1000 mm & Automatic swing-up
- Squaring arm with scale & T-Slot & Tilting stop (L= 1000mm)
- 1000mm Support arm
- Foot Pedal with Emergency Stop Button
- Top and Bottom Blades

OPTIONAL FEATURES

- Cybelec Touch8 Touch Screen Colour Control Unit
- Pneumatic sheet support system (Fixed Type)
- Pneumatic sheet support system (Modular Type)
- 0-180° Front angle gauge
- Laser Cutting Line
- Light Curtain for Finger Protection
- Back Gauge Servo Motor Difference
- Oil Heather
- Oil Coolant with Fan
- Central Lubrication Manual
- Central lubrication Motorized

Machine body produced with advanced technology.

Excellent cutting precision.

New generation design with high performance.

GENERAL FEATURES

HYPER Series CNC Variable Rake Hydraulic Guillotine Shears that provide the appropriate solutions for your needs proved to be user-friendly with its advanced technological features produced with high efficiency, precision and performance criteria. The HYPER Series CNC Variable Rake Hydraulic Guillotine Shears has proved to be the best and most durable in the industry with its ease of use.

When you enter the length, thickness and material information of the sheet which will be cut into the easily programmable control unit; gap distance, cutting angle stroke and cutting length are automatically adjusted instantaneously.

While providing flexibility for different production requirements, the time loss eliminated by targeting high productivity.

• The machine frame manufactured with advanced technology with exact tolerances and stress relieved with welded components. All tensile points are designed with large radii and strain accumulation and possible welding cracks are eliminated.

• The lower table and upper table inertia created for optimum value for the minimum deformation affecting the cutting quality.

• The top plate designed to positioned vertically so that the roller bearings, piston bearings, and felts can compensate for vertical loads.

• The hydraulic cylinder is intended to be double-sided and honed to surface quality of 2 microns. Thus, minimum wear resistance is created for the felts. The cylinder bodies manufactured as SAE 1040 material forged.

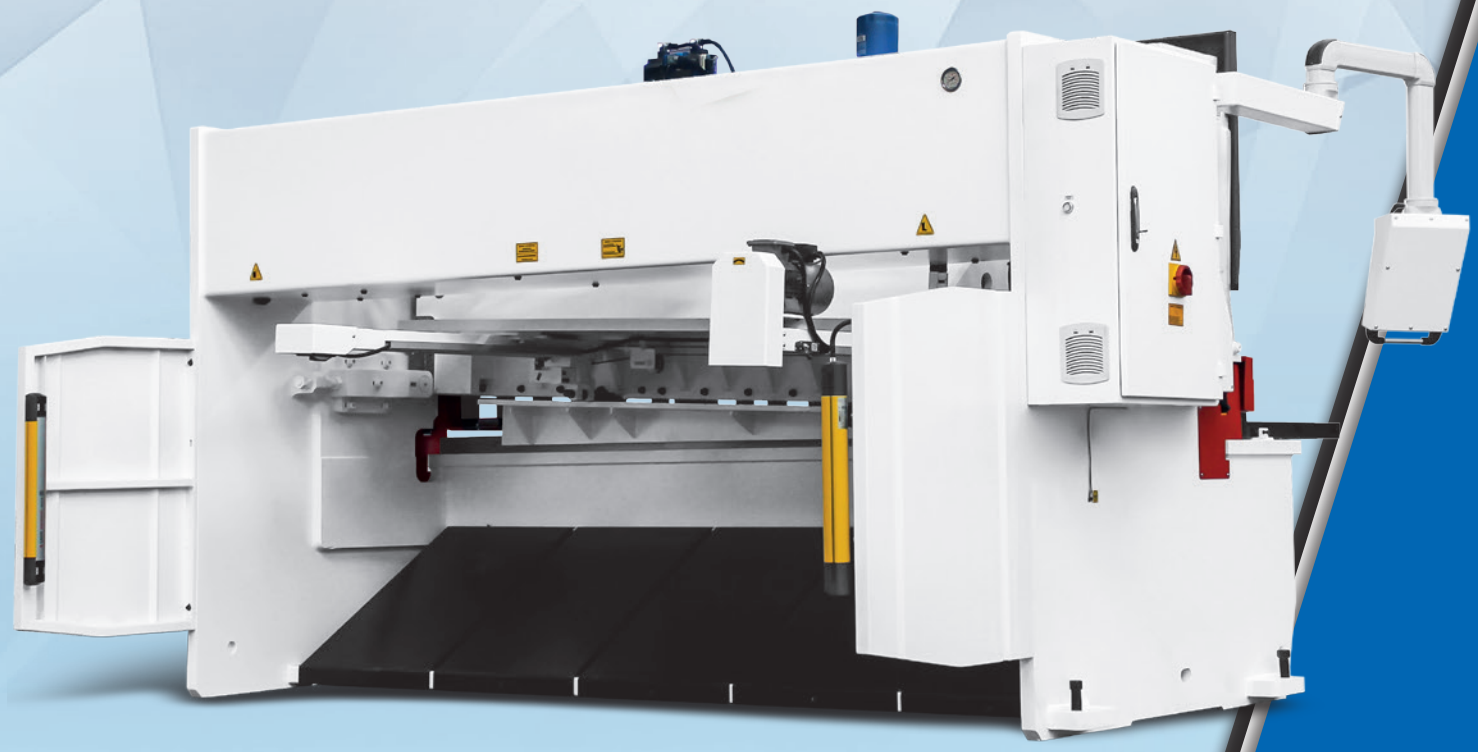
• The hydraulic cylinders specially designed and the upper table mounted with cylinder springs and doubly secure to cylinders as a spherical connection. At this point, the power generated during cutting distributed to the machine body.

• Piston head features: Omega-type felts fitted with full bronze bearings, semi-angled sleeves.

• The Hilalsan hydraulic system allows precise usage at all pressure values up to the maximum operating pressure. At the same time, with these pressure values, precise cylinder positioning, synchronization, and repeatability are achieved.

• Backgauge system manufactured in accordance with environmental conditions. Backgauge bearings made for heavy conditions with double bearers. Scrapping type bearings used against dust and other particles that will accumulate in the linear guideways against dusty environmental conditions.

• The outer surface of the machine is painted with two layers of paint at least 60 microns in thickness to protect against weather conditions. Paint drying is done gradually in a different time and temperature ranges in state-of-the-art ovens.

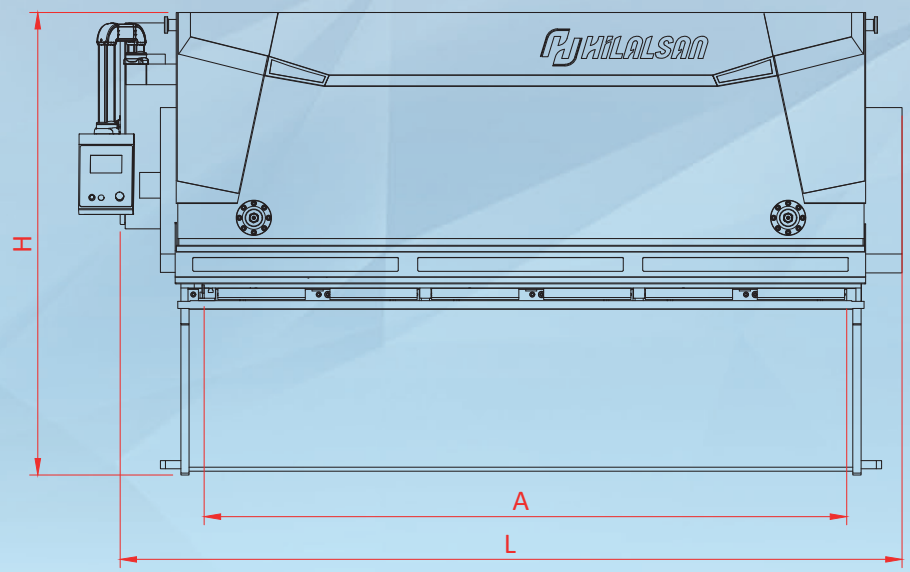


CNC VARIABLE RAKE HYDRAULIC GUILLOTINE SHEAR

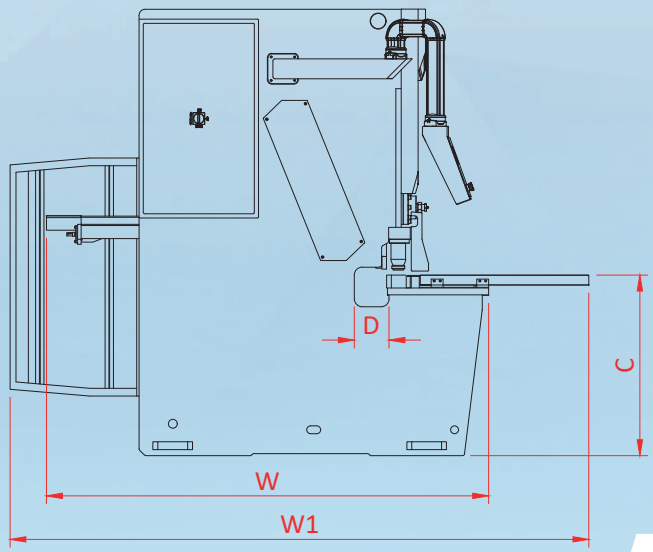
HYPER SERIES

Machine Type	Cutting Length	Cutting Capacity		Number of stroke (No-load.)	Cutting Angle		Number of Holddowns	Backgauge course	Backgauge Speed	Motor Power	Oil Capacity	Throat depth
		MS (450N/mm²)	SS (700 N/mm²)		Min	Max.						
	mm	mm	mm	1/dak	Degree		Units	mm	mm/sn	Kw	Lt	mm
	A											D
AGM-2006	2080	6	4	13_24	0,3	2	9	1000	100	11	160	150
AGM-2010	2080	10	6	11_19	0,3	2	10	1000	100	22	350	150
AGM-2506	2580	6	4	12_22	0,3	2	11	1000	100	11	160	150
AGM-3006	3080	6	4	11_21	0,3	2	13	1000	100	11	160	150
AGM-3008	3080	8	5	10_18	0,3	2	14	1000	100	18,5	350	150
AGM-3010	3080	10	6	9_17	0,3	2	17	1000	100	22	350	150
AGM-3013	3080	13	8	8_15	0,5	2,3	15	1000	100	30	350	150
AGM-3016	3080	16	10	7_11	0,5	2,5	17	1000	100	30	350	150
AGM-3020	3080	20	13	5_10	0,5	3	18	1000	100	37	550	150
AGM-4006	4080	6	4	9_20	0,3	2	18	1000	100	11	350	150
AGM-4010	4080	10	6	8_16	0,3	2	20	1000	100	22	350	150
AGM-4013	4080	13	8	7_13	0,5	2,3	18	1000	100	30	350	150
AGM-4016	4080	16	10	5_10	0,5	2,5	21	1000	100	30	350	150
AGM-4020	4080	20	13	5_9	0,5	3	21	1000	100	37	550	150
AGM-6006	6080	6	4	8_13	0,5	2	26	1000	100	18,5	350	150
AGM-6010	6080	10	6	7_11	0,5	2	26	1000	100	22	350	150
AGM-6013	6080	13	8	6_11	0,5	2,5	24	1000	100	30	550	150
AGM-6016	6080	16	10	5_9	0,5	2,5	24	1000	100	37	550	150
AGM-6020	6080	20	13	4_7	0,5	3	24	1000	100	37	550	150

HİLALSAN has right to change catalogue values and machine technical details without notice. Misprints are not restrictive.



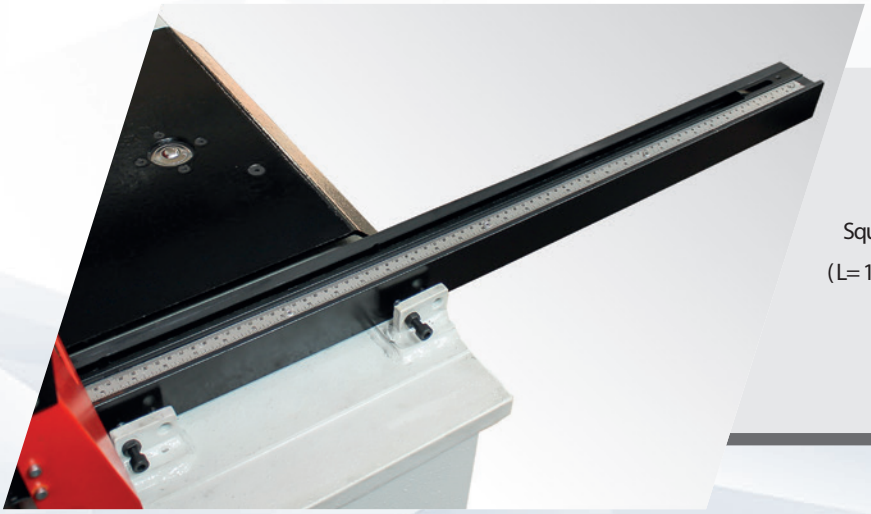
Front Arms	Table height	Length	Width	Total Width	Height	Approximate Weight
Units	mm	mm	mm	mm	mm	mm
	C	L	W	W1	H	Kg
2	800	2800	2120	2770	1900	4650
2	850	2850	2200	2940	2190	7900
3	850	3300	2130	2780	1900	5950
3	850	3850	2130	2780	2200	7250
3	900	3850	2230	2910	2110	8700
3	900	3850	2240	2920	2300	10500
3	900	3900	2260	2960	2350	12850
3	900	3900	2290	3000	2450	16500
3	1000	3950	2320	3050	2650	21500
4	900	4900	2160	2820	2300	10750
4	900	4900	2280	3000	2400	15500
4	900	4900	2310	3020	2550	18400
4	1000	4900	2340	3050	2700	22000
4	1100	5000	2370	3100	2800	27500
6	1000	6900	2200	2860	2550	22500
6	1000	6950	2330	3050	2650	28000
6	1200	6950	2370	3080	2950	35500
6	1200	7000	2410	3120	3150	40500
6	1200	7050	2440	3170	3300	50500



HYDRAULIC GUILLOTINE SHEARS

HYPER SERIES

The guillotine shear bodies machined in 5 Axis CNC machines are able to make more precise cuts.



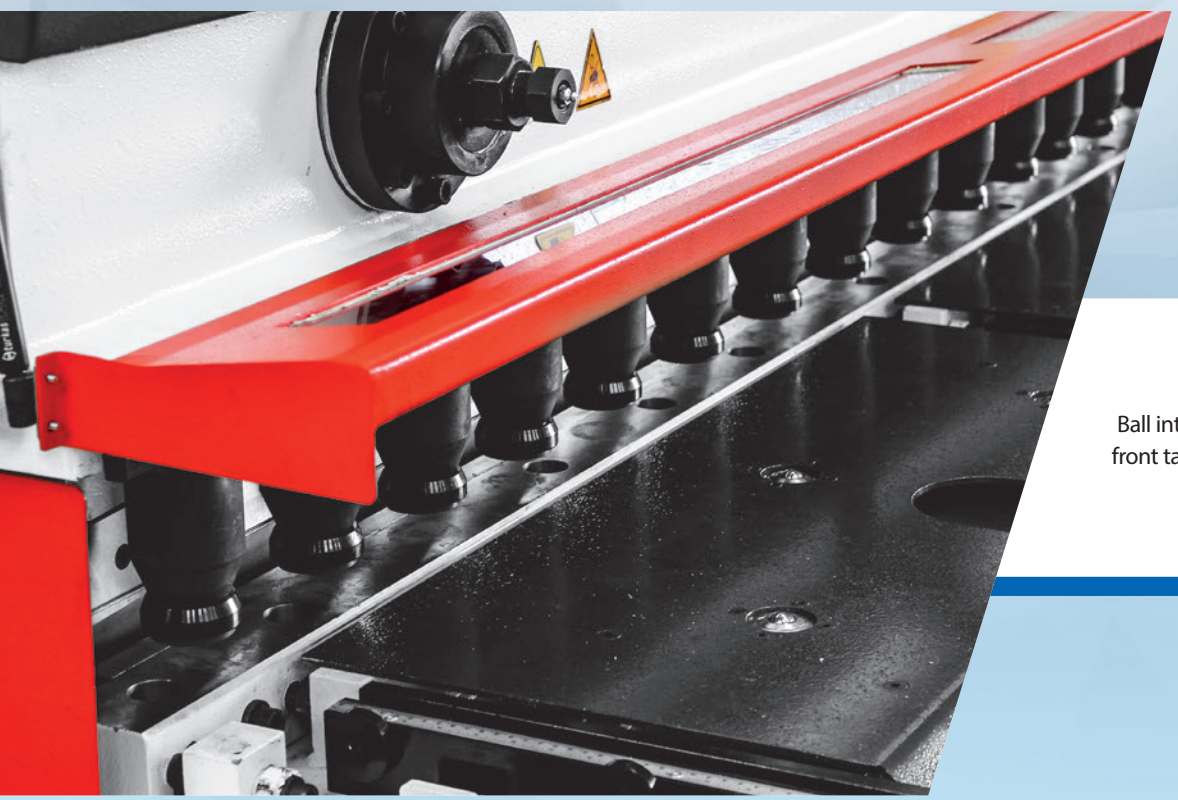
Squaring arm with scale & T-Slot & Tilting stop
(L= 1000 mm)

AC Motorized
back gauge,
1000 mm with
Automatic
swing-up

HYDRAULIC GUILLOTINE SHEARS

HYPER SERIES

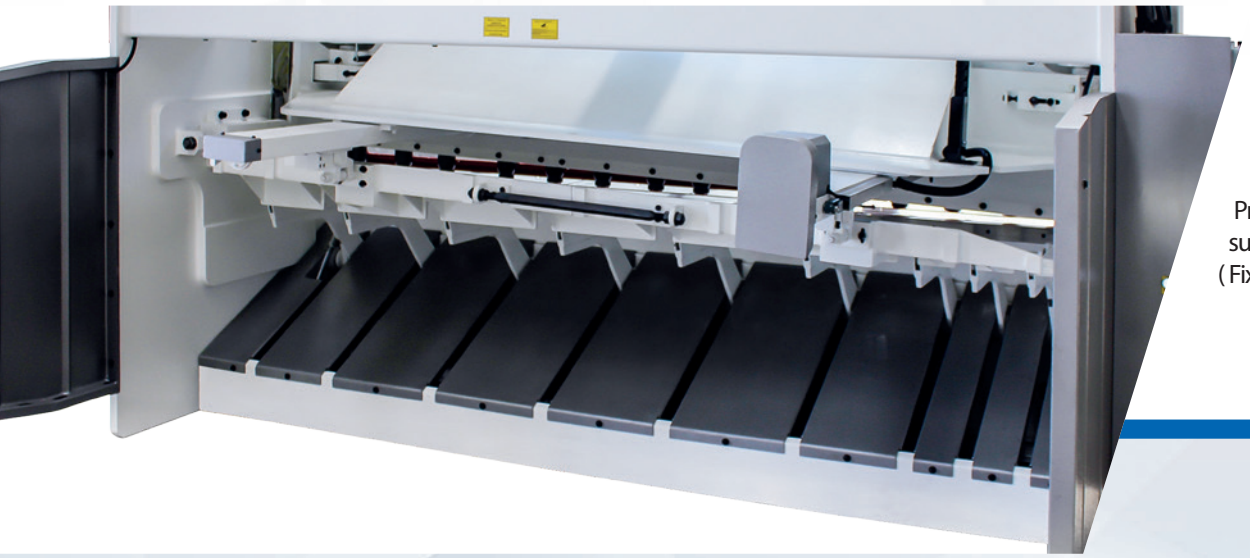
Full Length flip-up finger guard cage



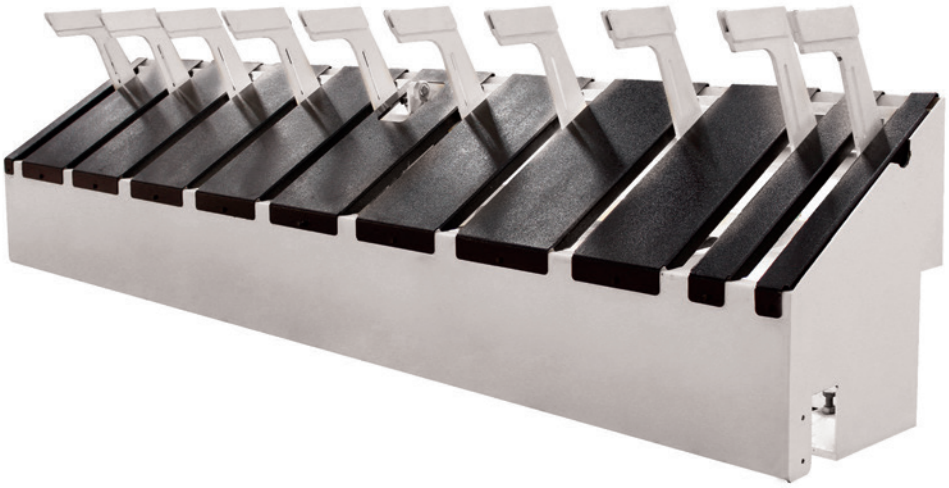
Ball integrated front tables

HİLALSAN®

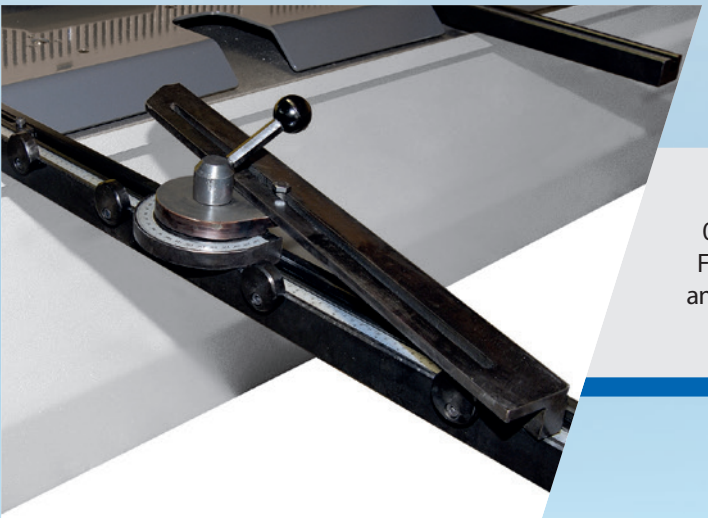
Leading Technology



Pneumatic sheet support system (Fixed)



Pneumatic sheet support system (Modular)



0-180° Front angle gauge

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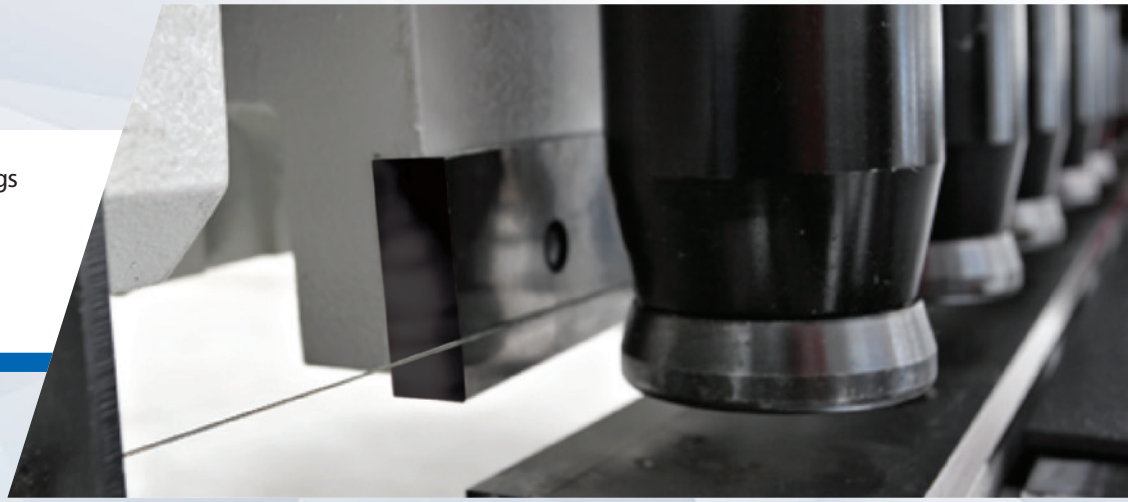
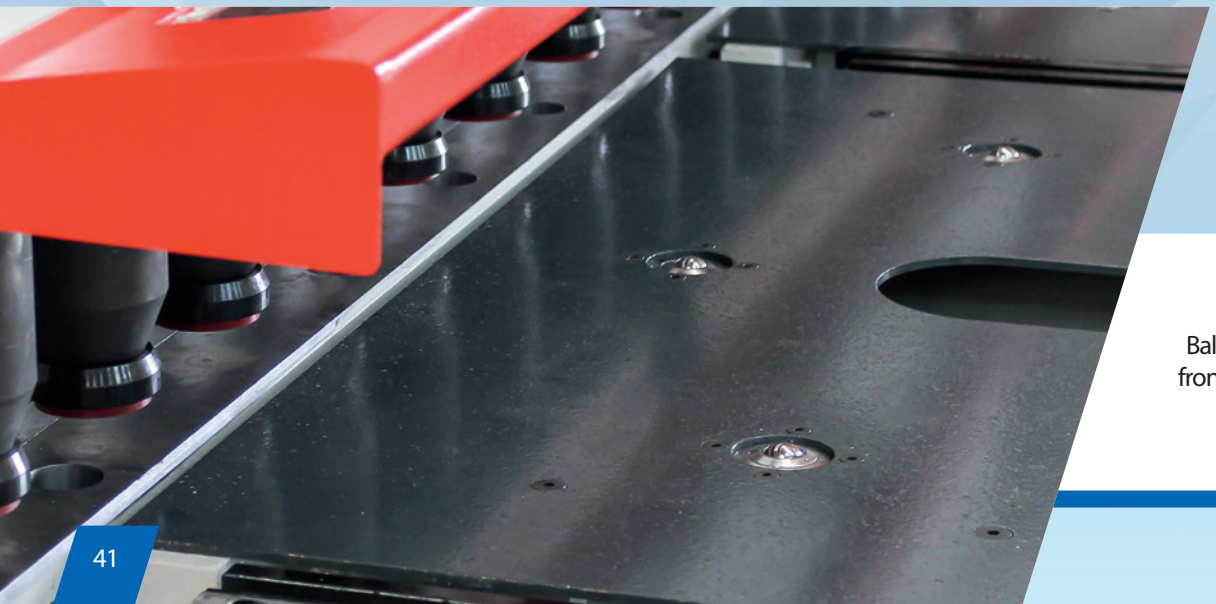
HYDRAULIC GUILLOTINE SHEARS

HYPER SERIES

Hold-down lugs that prevent from moving of the sheet during cutting



Lighting for cutting line & Shadow line

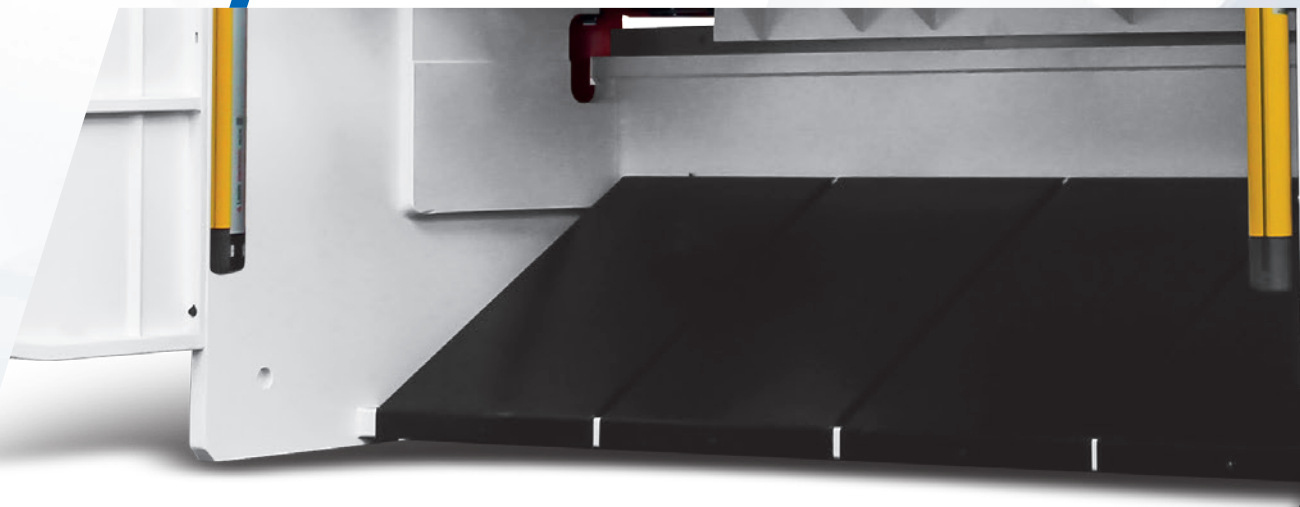


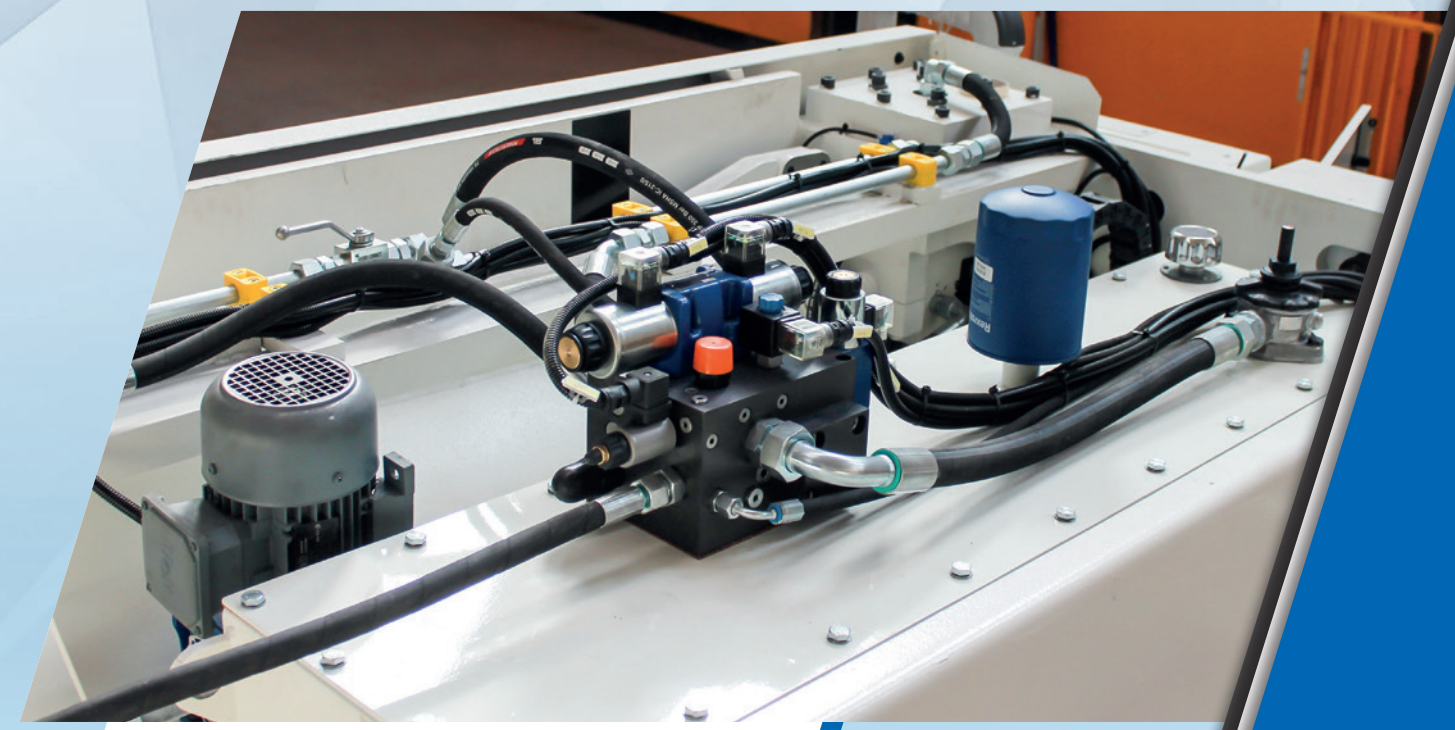
Ball integrated front tables

HİLALSAN®

Leading Technology

Back Safety Light Curtains





Hydraulic System

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HYDRAULIC GUILLOTINE SHEARS

HYPER SERIES

Elgo P40T
Colored
Touchscreen
CNC Control Unit

- Live Color & High Contrast TFT Touch Screen
- Material depending gap, angle and pressure calculation.
- Automatic Gap Adjustment
- Automatic Cutting Angle Adjustment
- Automatic Cutting Length Adjustment
- Automatic Backgauge Correction
- Automatic Backgauge Parking
- Sheet Support
- Hold-down pressure managment
- System Pressure Managment
- Program memory
- Language Selection

HİLALSAN®

Leading Technology

Motorized adjustable blade gap by Button

BRL 401.2
Control Unit

- Use encoder which supply between 5 VDC to 30 VDC
- Inch / Metric measuring unit,
- Measure 0 – 10 meter,
- 0,1 mm / 0,001 inch sensivity (Adjustable),
- Automatic / Semi Automatic and manual operating mode,
- 10 Different Set Position and Set Count value,
- Optional working with 100 programme, 10 set value
- Working without set values (Single mode),
- Upper and lower limit definition ,
- Double speed position control operation,
- Warning with error messages,
- Programmable manual movement keys ,
- Retraction capability ,
- Saves set position and count values when power off,
- Programmable direction models for each axis,

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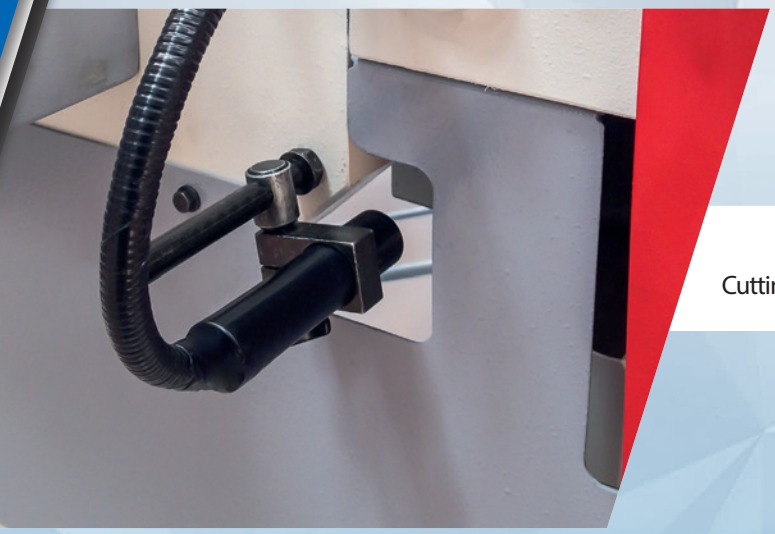
HYPER SERIES

OPTIONAL FEATURES

Oil Cooler with Fan

Manual Central Lubrication



Laser Cutting Line

Motorized Central Lubrication

Oil Heaters


Hartford
Hartford

GUILLOTINE SHEAR with REDUCER

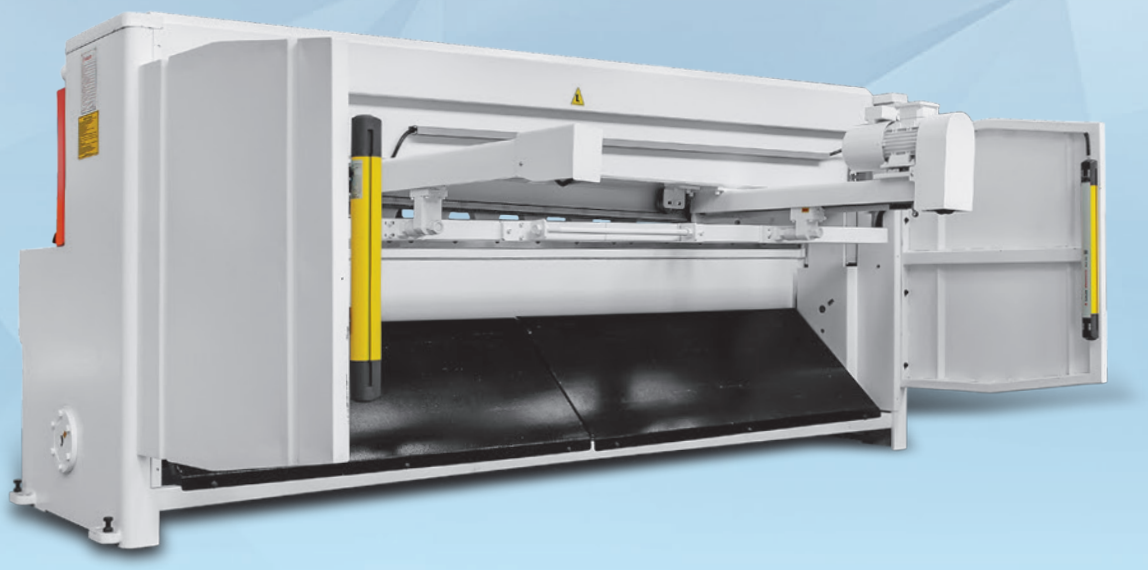
PRESTIGE SERIES 4 mm

STANDART FEATURES

- BRL 401.2 Control Unit
- Manual Blade Gap Adjustment
- Full Length Finger Guards Cage
- Ball integrated front tables
- AC Motorized back gauge (700 mm)
- Squaring arm with scale & T-Slot & Tilting stop (L= 1000 mm)
- Support arms (2 Pcs)
- Back Safety Light Curtains
- Foot Pedal with Emergency Stop Button
- Top and Bottom Blades

OPTIONAL FEATURES

- Elgo P40T Control Unit
- Pneumatic sheet support system (Back)
- 0-180° Front angle gauge



GUILLOTINE SHEAR with REDUCER

PRESTIGE SERIES 3 mm

STANDART FEATURES

- Full Length Finger Guards Cage
- Manual back gauge (560 mm)
- Squaring arm with scale (L= 750 mm)
- Support arms (2 Pcs)
- Back Safety Light Curtains
- Foot Pedal with Emergency Stop Button
- Top and Bottom Blades

OPTIONAL FEATURES

- BRL 401.2 Control Unit & Motorized Back Gauge (700mm)
- ELGO P40T Control Unit & Motorized Back Gauge (700mm)
- Pneumatic sheet support system (Modular)
- 0-180° Front angle gauge

GUILLOTINE SHEAR with REDUCER

PRESTIGE SERIES

GENERAL FEATURES

• The high-tech RGM range gives excellent results in a variety of business types.

• The RGM Series allows you to achieve precise and perfect cuts by entering all cut values.

• The machine frame manufactured with advanced technology with exact tolerances and stress relieved with welded components. All tensile points designed with large radii and strain accumulation and possible welding cracks eliminated.

• The top and bottom table inertia created for optimum value for the minimum deflection affecting the cutting quality.

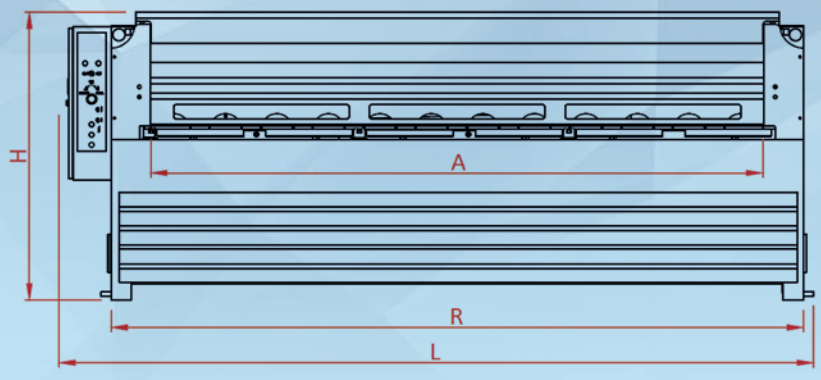
• Productivity, maximum safety and cutting accuracy are features that distinguish the RGM Series.

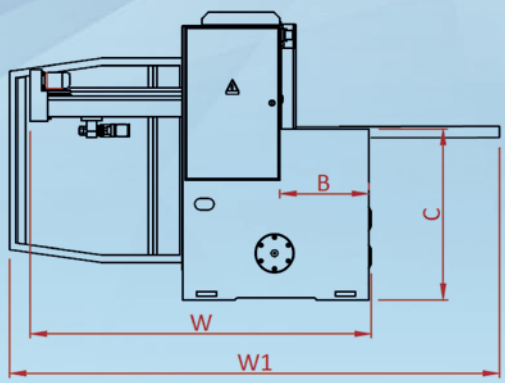
• It satisfies your needs for delicate and precise cutting.

• It provides practical solutions at economical prices.

PRESTIGE Series	Cutting Length	Cutting Capacity MS (450 N/mm²)	Min. Max. Stroke per minute	Cutting Angle	Back Gauge Course	Back Gauge	Motor Power	Front Arms	Table Width	Table Height	Table Length	Length	Width	Total Width	Height	Approximate Weight
	mm	mm	1/min.	Degree	mm		Kw	pcs.	mm	mm	mm	mm	mm	mm	mm	
	A								B	C	R	L	W	W1	H	Kg
1503	1550	3	34	2,1	560	Man.	4	2	430	800	1800	2150	1700	2000	1250	1550
2003	2050	3	34	1,9	560	Man.	4	2	430	800	2300	2650	1700	2000	1250	1800
3003	3050	3	29	1,5	560	Man.	7,5	3	475	830	3450	3700	1700	2400	1420	3500
2504	2550	4	29	1,5	700	Mot.	7,5	3	475	850	3000	3300	1700	2400	1420	3400
3004	3050	4	29	1,5	700	Mot.	7,5	3	475	850	3500	3800	1700	2400	1420	3950

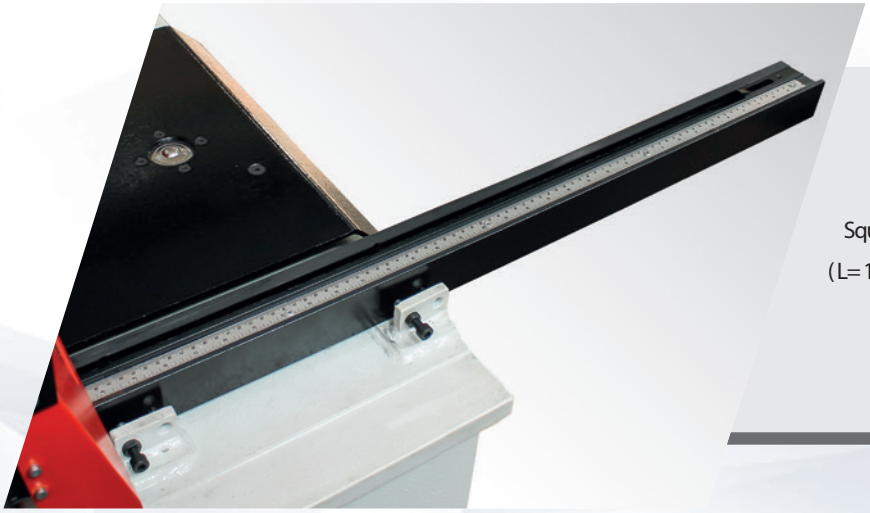
HİLALSAN teknik verileri haber vermeden değiştirme hakkına sahiptir. Tashih hataları bağlayıcı değildir.





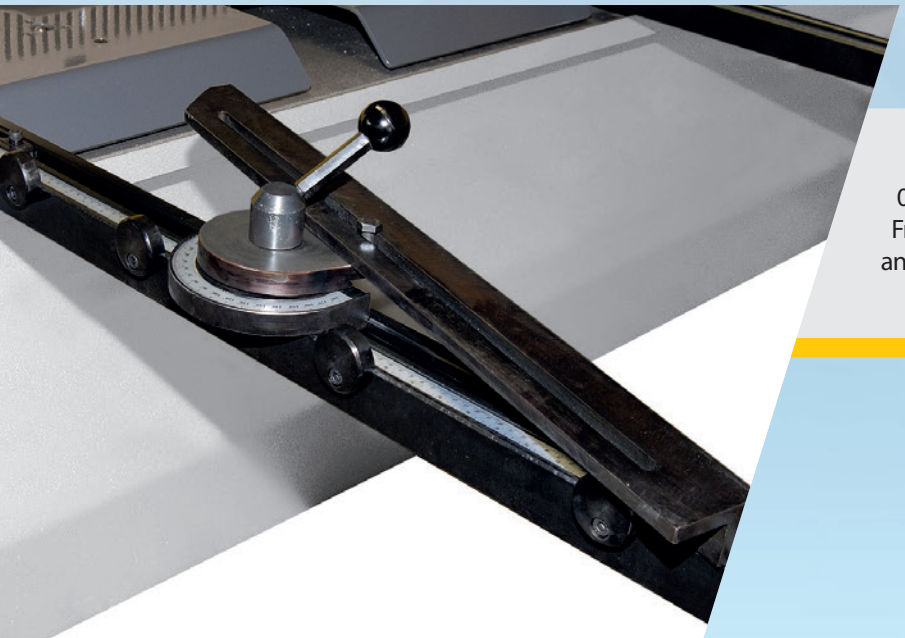
HİLALSAN®

Leading Technology



Squaring arm with scale & T-Slot & Tilting stop
(L= 1000 mm)

Pneumatic sheet support system



0-180° Front angle gauge

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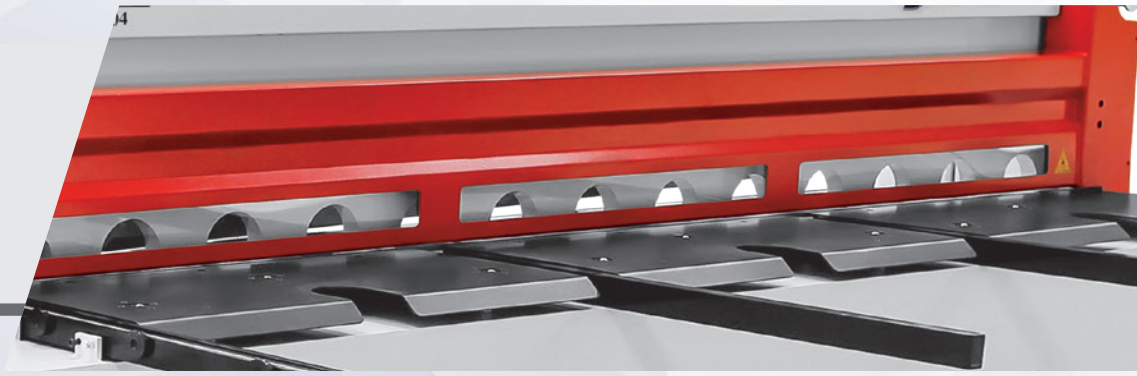
GUILLOTINE SHEAR with REDUCER

PRESTIGE SERIES 3-4 mm

Full Length
Finger
Guards Cage



Ball integrated
front tables

AC Motorized
Back Gauge

Back Safety Light Curtain

BRL 401.2
Control Unit

- Use encoder which supply between 5 VDC to 30 VDC
- Inch / Metric measuring unit,
- Measure 0 – 10 meter,
- 0,1 mm / 0,001 inch sensivity (Adjustable),
- Automatic / Semi Automatic and manual operating mode,
- 10 Different Set Position and Set Count value,
- Optional working with 100 programme, 10 set value
- Working without set values (Single mode),
- Upper and lower limit definition,
- Double speed position control operation,
- Warning with error messages,
- Programmable manual movement keys,
- Retraction capability,
- Saves set position and count values when power off,
- Programmable direction models for each axis,

HYDRAULIC IRON WORKERS

DOUBLE CYLINDER SERIES

STANDART FEATURES

- Easy Replaceable Punch Holder
- Punch & Tool
- Angle Cutting Blade
- Flat Bar Cutting Blade
- Notching Blade
- Solid Bar Cutting Blade
- 1000mm Electrical Back Gauge
- Foot Pedal with Emergency Stop Button
- Hook Wrenche

OPTIONAL FEATURES

- Bending Tool (SET)
- IPN (NPI), UPN (NPU), T Profile Section Blade
- 90^{O} Special V Notching Blade
- Bottom Blade Connection Fixture for 90^{O} Special V Notching Blade Bottom
- T - NPU - NPI Section Punching Die Fixture
- Special Punch & Tool Options

GENERAL FEATURES

- Cut in five different stations to reduce cost, energy, and job loss.

- It is manufactured from welded and welded steel stem with static and dynamic rigidity to ensure long service life and maximum productivity.

- These models operated by double cylinder and double foot pedal. The punch side and the combined side can operate at the same time or independently of each other.

- High and precious safety ensured against accidents that may occur during use with safety cage systems in the existing five cutting stations.

HİLALSAN®

Machine body produced with advanced technology.

Excellent cutting precision.

New generation design with high performance.

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HYDRAULIC IRON WORKERS

SINGLE CYLINDER SERIES

STANDART FEATURES

- Easy Replaceable Punch Holder
- Punch & Tool
- Angle Cutting Blade
- Flat Bar Cutting Blade
- Notching Blade
- Solid Bar Cutting Blade
- 1000mm Manual Back Gauge
- Foot Pedal with Emergency Stop Button
- Hook Wrenche

OPTIONAL FEATURES

- Bending Tool (SET)
- IPN (NPI), UPN (NPU), T Profile Section Blade
- 90° Special V Notching Blade
- Bottom Blade Connection Fixture for 90° Special V Notching Blade Bottom
- T - NPU - NPI Section Punching Die Fixture
- Special Punch & Tool Options

Machine body produced with advanced technology.

Excellent cutting precision.

New generation design with high performance.

GENERAL FEATURES

• Cut in five different stations to reduce cost, energy, and job loss.

• It is manufactured from welded and welded steel stem with static and dynamic rigidity to ensure long service life and maximum productivity.

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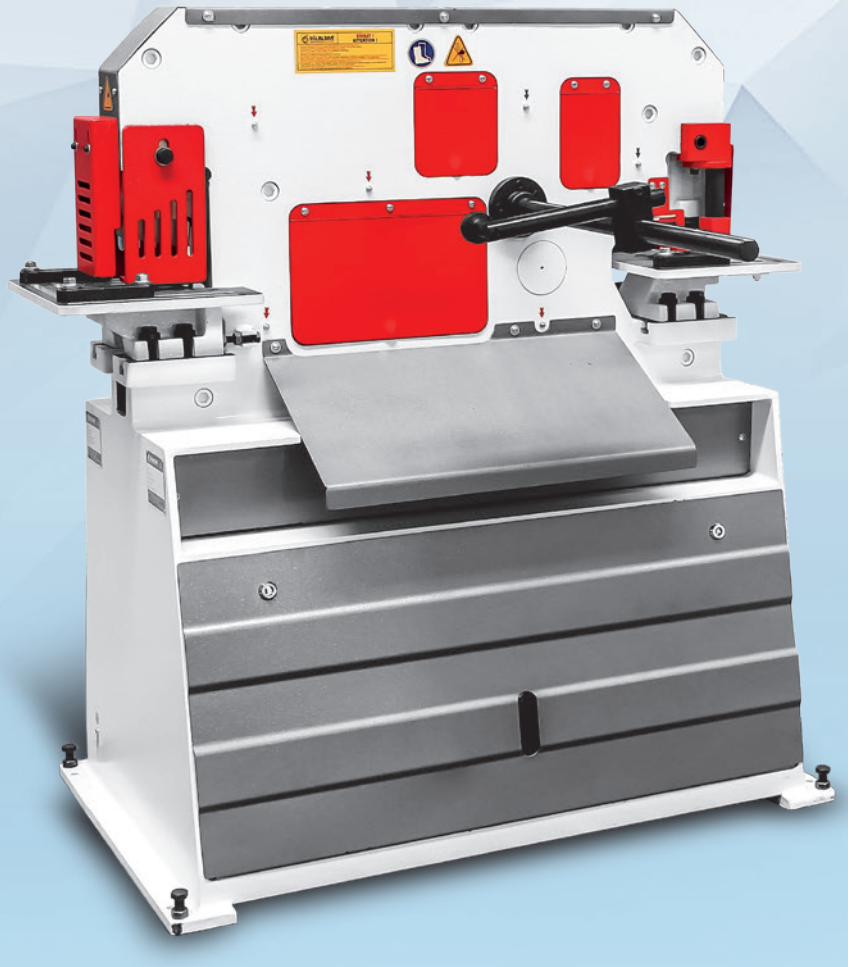
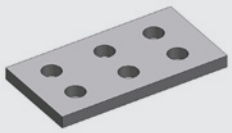
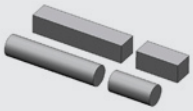


DOUBLE - SINGLE CYLINDER SERIES

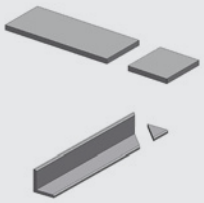


PUNCHING			HKM 45	HKM 60	HKM 55	HKM 65	HKM 85	HKM 115	HKM 175 DB
mm	Diameter x max . Tickness		Ø 22 x 15	Ø 28 x 15	Ø 20 x 20	Ø 26 x 20	Ø 33 x 20	Ø 34 x 26	Ø 40 x 32
mm	Diameter x tickness		Ø 38 x 8	Ø 38 x 11	Ø 40 x 10	Ø 57 x 10	Ø 57 x 12	Ø 55 x 16	Ø 57 x 22
mm	Diameter x min . tickness Optional (*)		Ø 100 x 3	Ø 110 x 3	Ø 100 x 3	Ø 110 x 3	Ø 110 x 4	Ø 110 x 5	Ø 125 x 5
mm	Stroke		35	50	55	55	80	80	80
mm	Stroke count in (20mm stroke)		x 20	x25	x25	x25	x25	x25	x22
mm	Throat depth		190	225	255	305	355	405	625
mm	Working heıght		935	935	1005	1005	1070	1070	1130

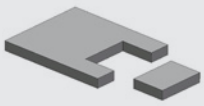


STEEL BAR SHEARING									
mm	Round / Square		Ø 30 25	Ø 40 35	Ø 40 40	Ø 45 45	Ø 50 50	Ø 55 50	Ø 65 55
mm	Working height		1115-1180	1195-1135	1100-1175	1115-1195	1295-1200	1250-1160	1330-1235

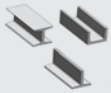
ANGLE SHEAR									
mm	Angle section (90°)		100x100x10	120x120x12	120x120x12	130x130x13	150x150x15	160x160x16	200x200x20
mm	Angle section (45°)		60x6	70 x 7	70 x 7	70 x 7	80 x 8	80 x 8	80 x 8
mm	Working height		1135	1130	1130	1130	1190	1190	1160



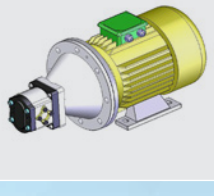
SHEET METAL SHEAR									
mm	Sheet metal		200 x 15	200 x 20	200 x 20	300 x 20	380 x 20	380 x 25	380 x 30
mm	Sheet metal		300 x 12	300 x 15	300 x 15	375 x 15	480 x 15	600 x 15	600 x 20
mm	Blade lenght		320	320	320	380	485	610	610
mm	Shearing with angle		80 x 8	80 x 8	80 x 8	100 x 10	120 x 12	120 x 12	120 x 12
mm	Working height		940	930	895	895	930	905	905



NOTCHING									
mm	Thickness		8	10	10	10	13	13	16
mm	Wıdth		35	42	45	45	52	60	65
mm	Depth		100	100	100	100	100	100	100
mm	Working height		940	940	895	895	915	940	940



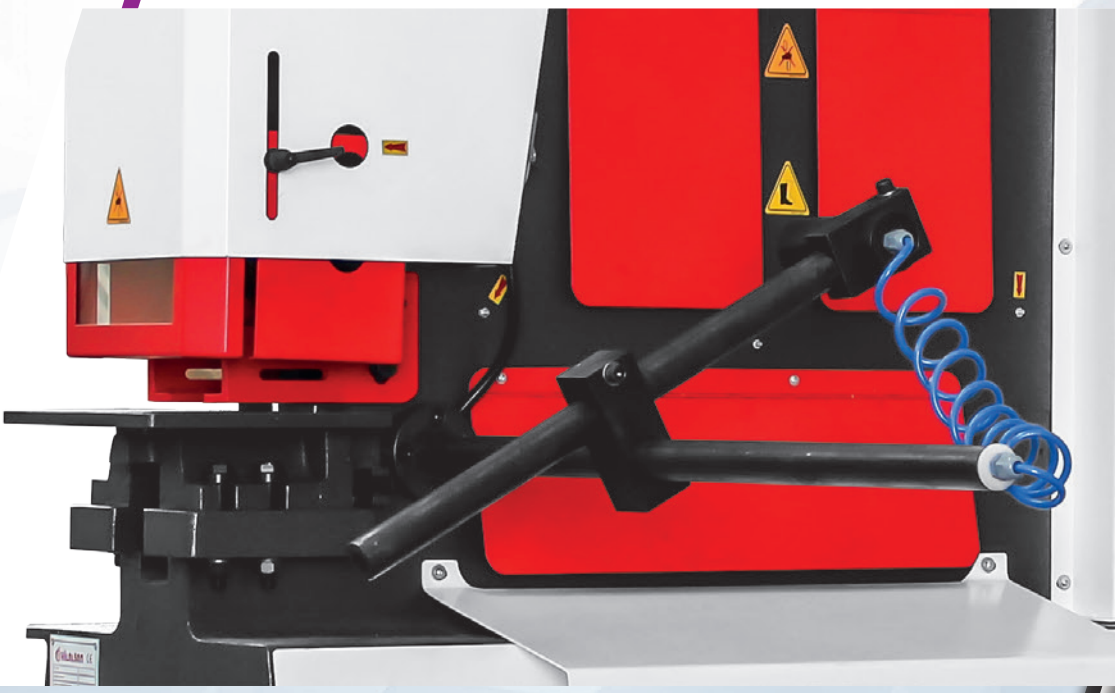
OPTIONAL TOOLS									
mm	NPU -NPI Section blades		80 x 45	80 x 45	120 x 58	120 x 58	160 x 74	200 x 90	300 x 125
mm	T - Section blades		40 x 5	80 x 9	90 x 11	90 x 11	100 x 11	120 x 13	150 x 15
mm	Special V-Notching tooling		100x100x8	100x100x10	100x100x10	100x100x10	100x100x13	100x100x13	100x100x13
mm	V Bending Press brake	Bar bend. max. capacity	100 x 12	100 x 12	250 x 12	250 x 15	250 x 20	250 x 22	250 x 25
mm		Sheet Bending Max.			250 x 3	500 x 3	500 x 3	700 x 3	700 x 4
mm	Punching on notcher	Bar bend. max. capacity	110	110	110	110	110	110	110
mm		Max. Capacity	18 x 12	20 x 12	38 x 8	38 x 8	38 x 10	38 x 12	38 x 12



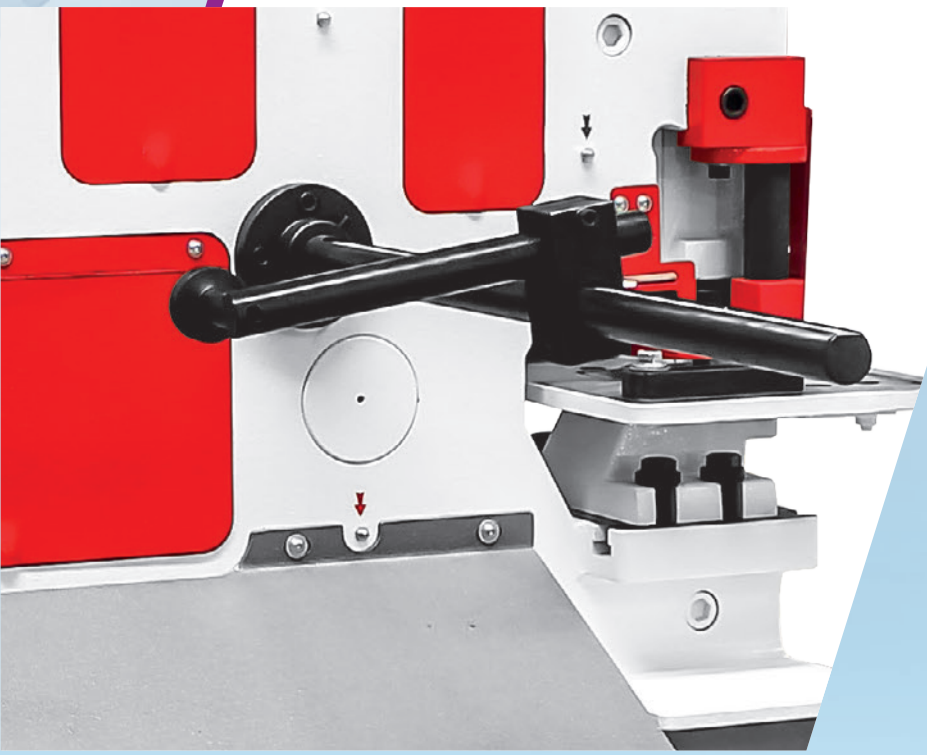
GENERAL INFORMATION								
Kw	Motor power	4	4	5,5	5,5	7,5	11	11
Ton	Capacity	45	60	55	65	85	115	175
mm	Lenghth	1330	1460	1550	1685	1865	2045	2810
mm	Height	1460	1575	1650	1765	1890	2030	2210
mm	Width	770	770	770	770	770	770	1020
Kg	Appoximate Weight	1200	1400	1500	1700	2250	3150	5750

Based on material strenght 450 N/mm². HİLALSAN has right to change catalogue values and machine technical details without notice. Misprints are not restrictive.

HKM Double Cylinder Series - Motorized Back Gauge with 1000 mm course



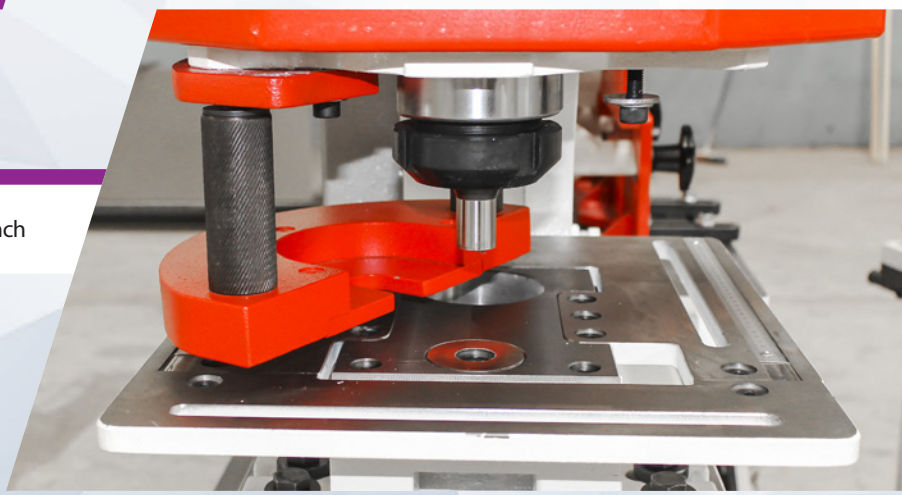
HKM Single Cylinder Series – Manual Back Gauge with 1000 mm course



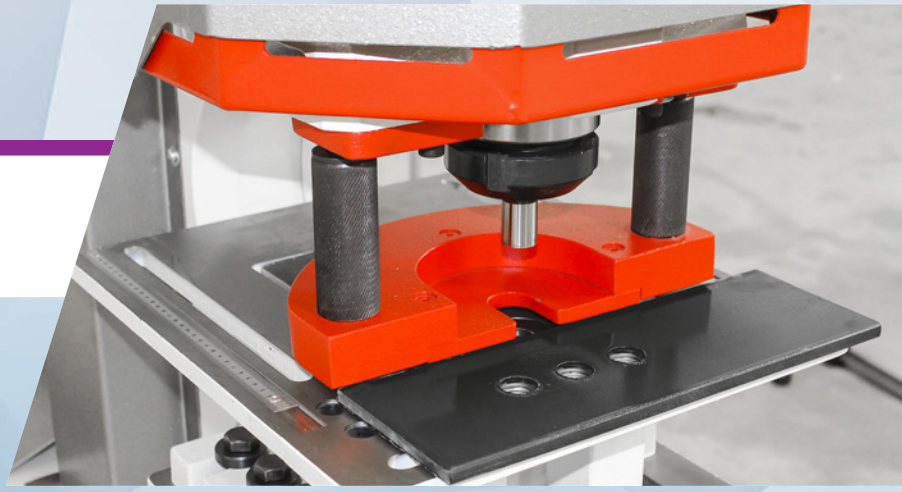
DOUBLE - SINGLE CYLINDER SERIES

PUNCHING STATION

Easy-to-open stripper punch



Flat Bar Punching



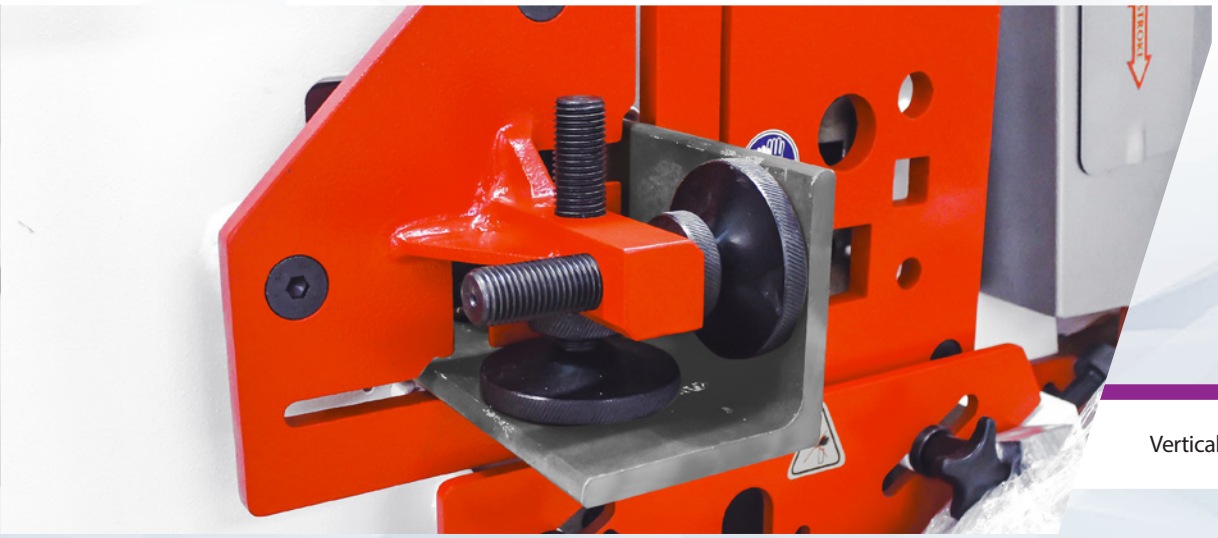
Angle Section Punching

Thanks to the large work surface, the user can drill multipurpose holes.

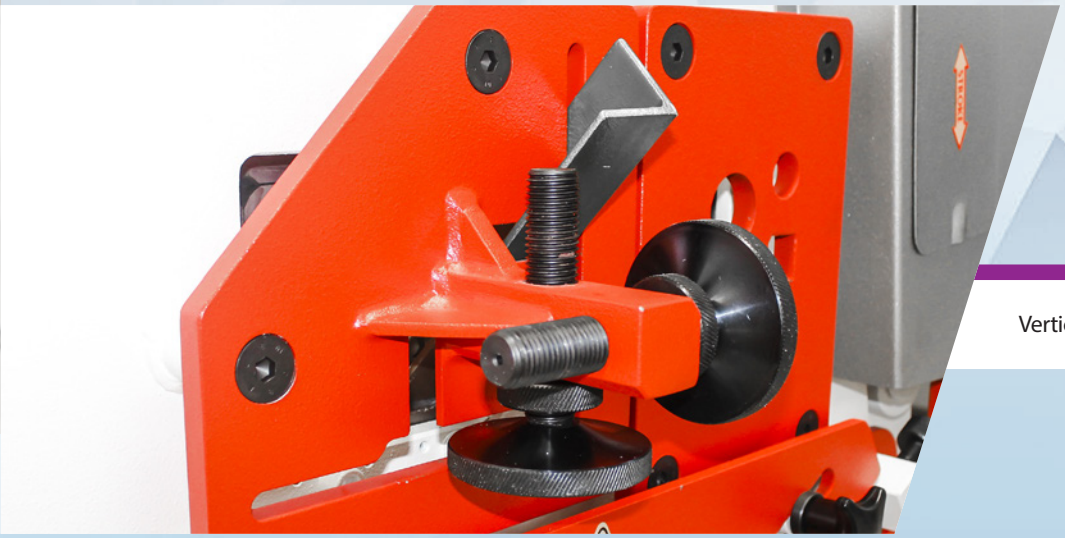
Fast and precise punching achieved with the easily removable punch and matrix connection system as Standard and the easy-to-open scraper.

It allows punching of different types of materials as well as flat materials.

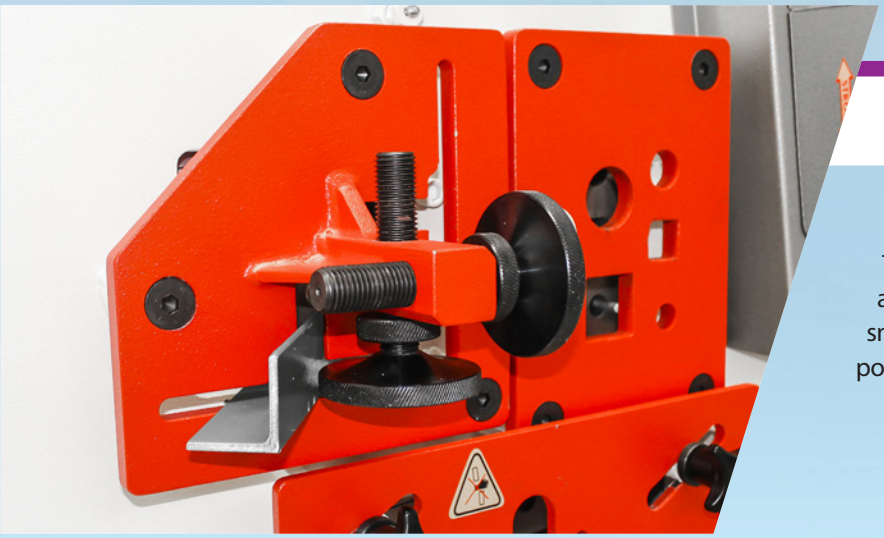
It has the ability to make horizontal and vertical support docking for punched material.



Vertical Angle Cutting



Vertical Angle Cutting



Horizontal Angle Cutting

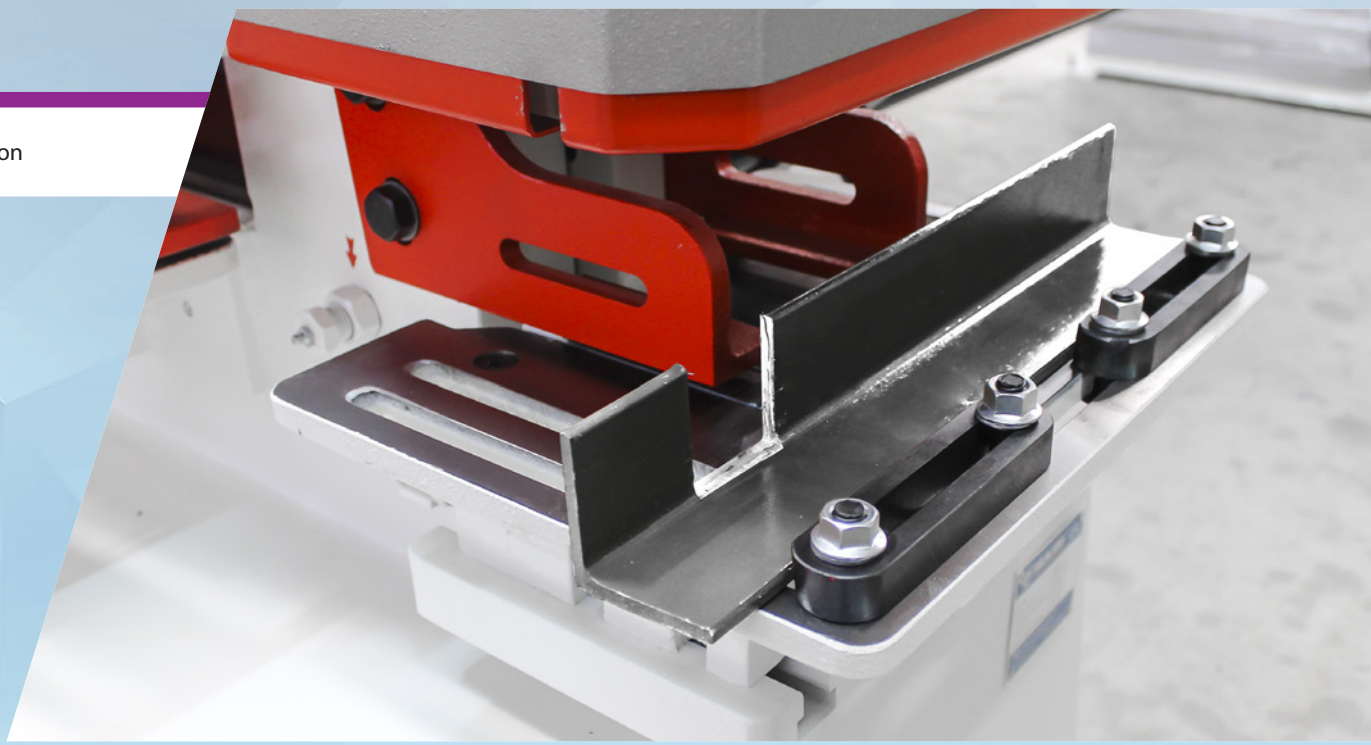
Thanks to the four-handed blades and easy-to-handle holders, smooth and precise cutting is possible.

DOUBLE - SINGLE CYLINDER SERIES

NOTCHING STATION

Thanks to the standard blades it is possible to make rectangular corner notching and triangle notching with a special blade. The V-Notching station can easily installed. Thanks to the wide use table, unlimited and vertical corner notching can be done.

Uncut Section



Cut Section

Flat Bar Cutting

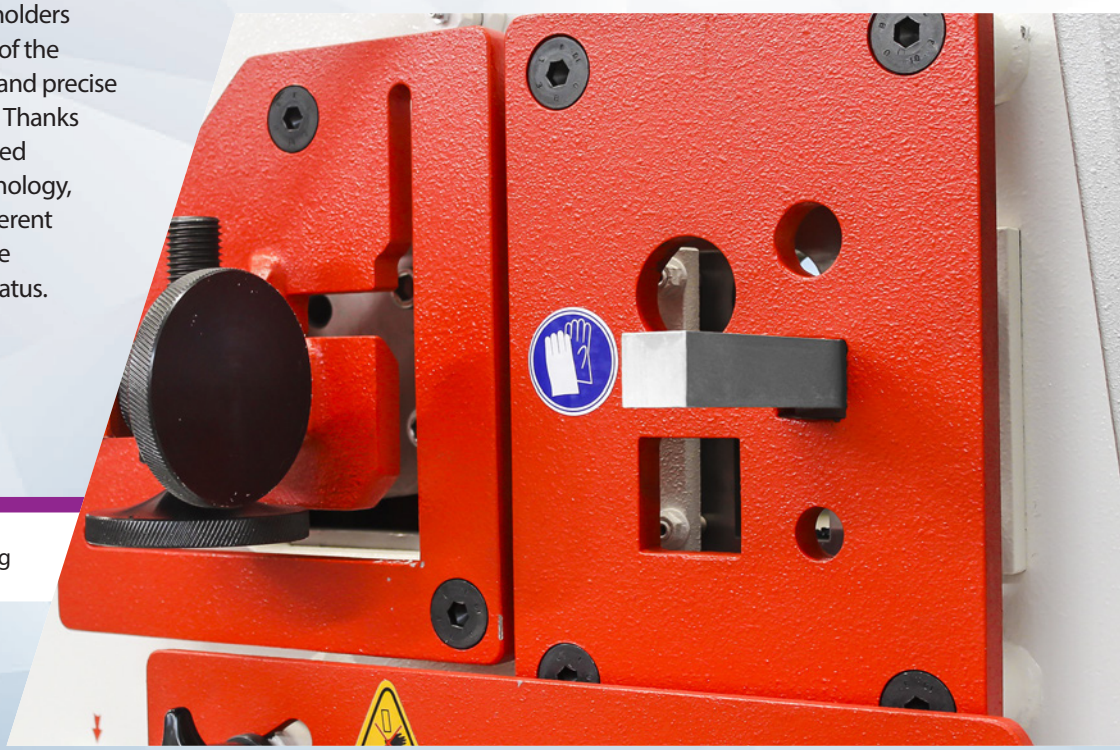
Angle Cutting

Easy adjustable holders ensure fastening of the material to be cut and precise cutting is achieved. Thanks to the blades designed using advanced technology, material cutting in different thicknesses can be done without any other apparatus.

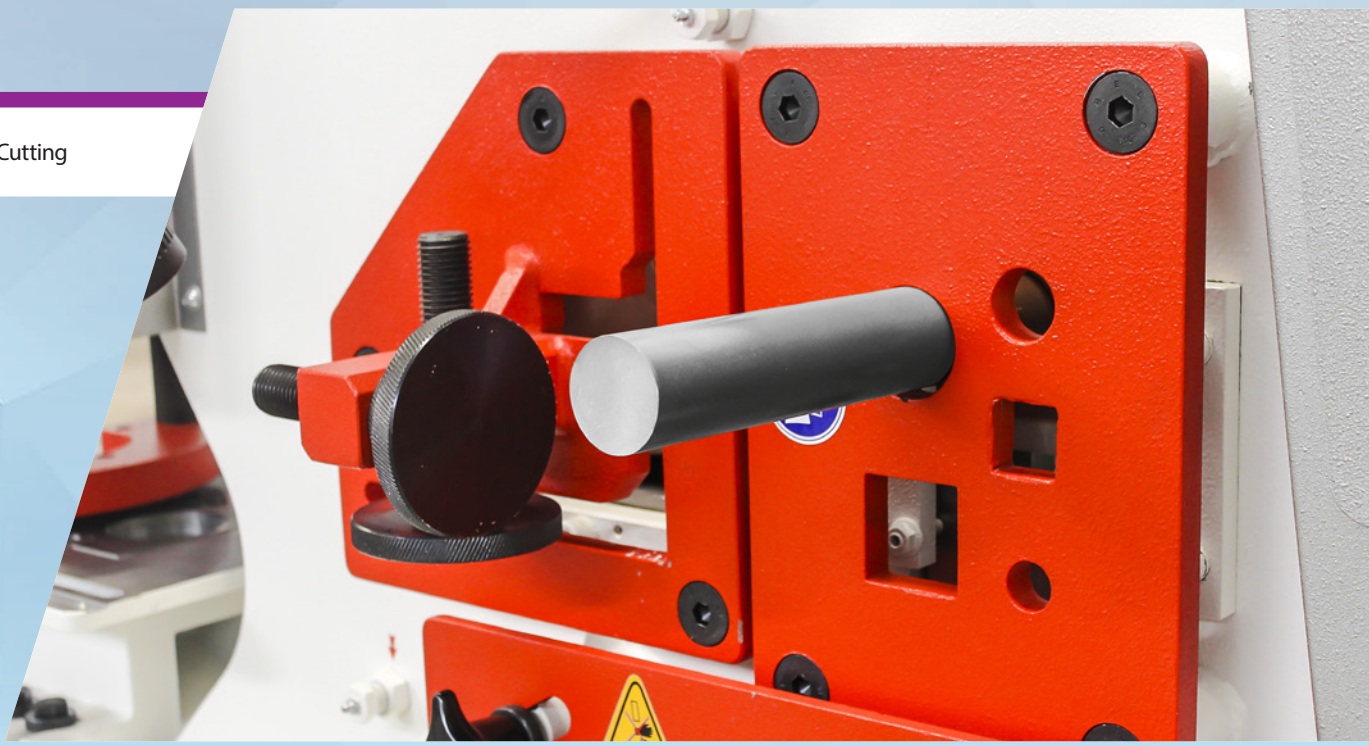
DOUBLE - SINGLE CYLINDER SERIES

SOLID BAR CUTTING

Easy adjustable holders ensure fastening of the material to be cut and precise cutting is achieved. Thanks to the blades designed using advanced technology, material cutting in different thicknesses can be done without any other apparatus.



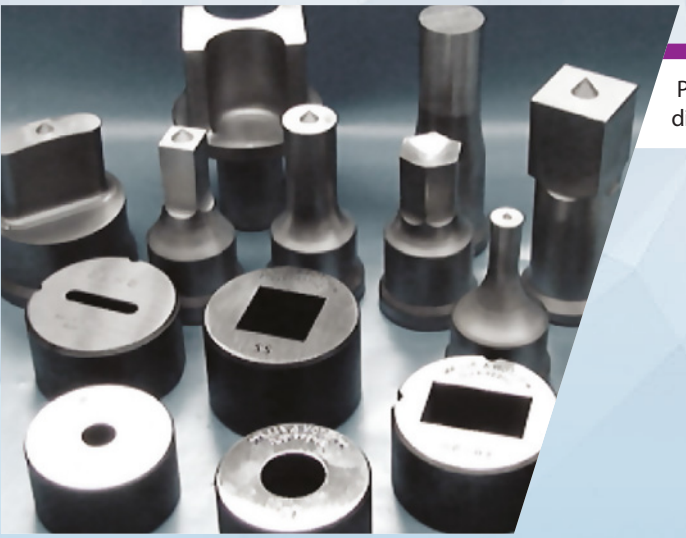
Rectangular Bar Cutting



Round Bar Cutting

NPU & NPI Section Punching

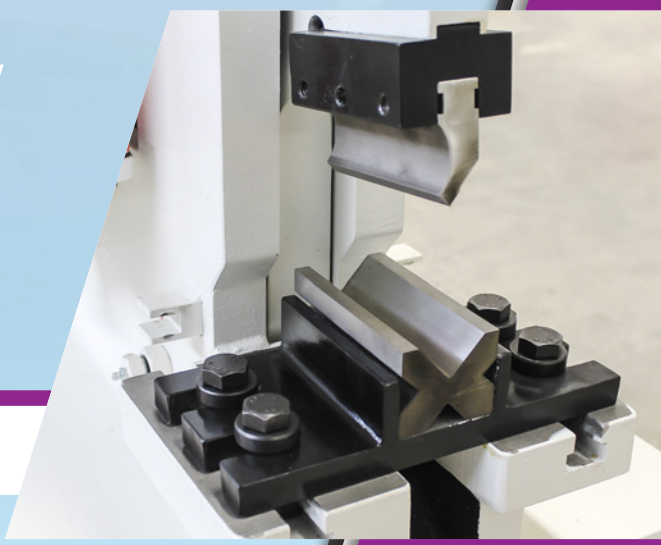
NPU & NPI Section Punching



Punch & Tool Option in different sizes

NPU-NPI Blades

Double Cylinder Bending Tool



Single Cylinder Bending Tool

HYDRAULIC C FRAME PRESSES

HCP SERIES

STANDART FEATURES

- PLC application and Touch Screen Control Unit
- Top and Bottom Table with T Channel
- Adjustable Stroke
- Double hand control for working safety
- Electrical Counter
- Front safety Light Curtains
- Side Safety Cages

OPTIONAL EQUIPMENT

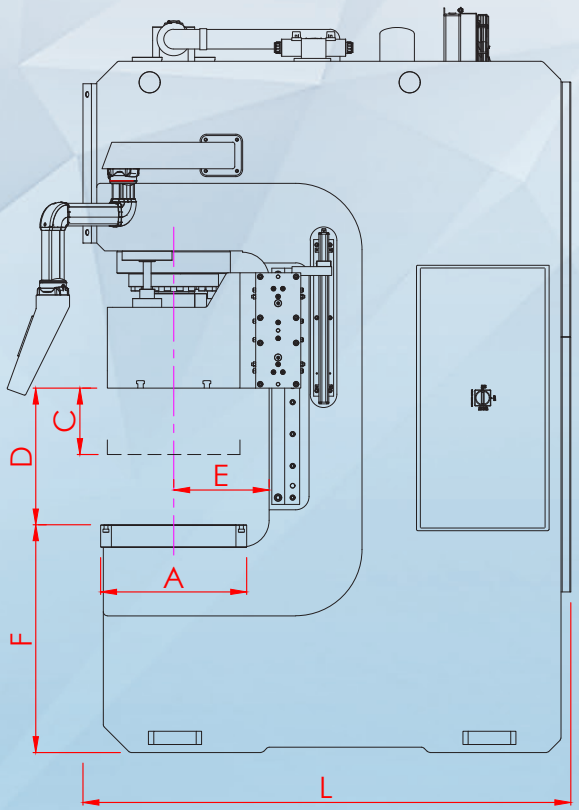
- Comformity to the Europen Directives (CE)

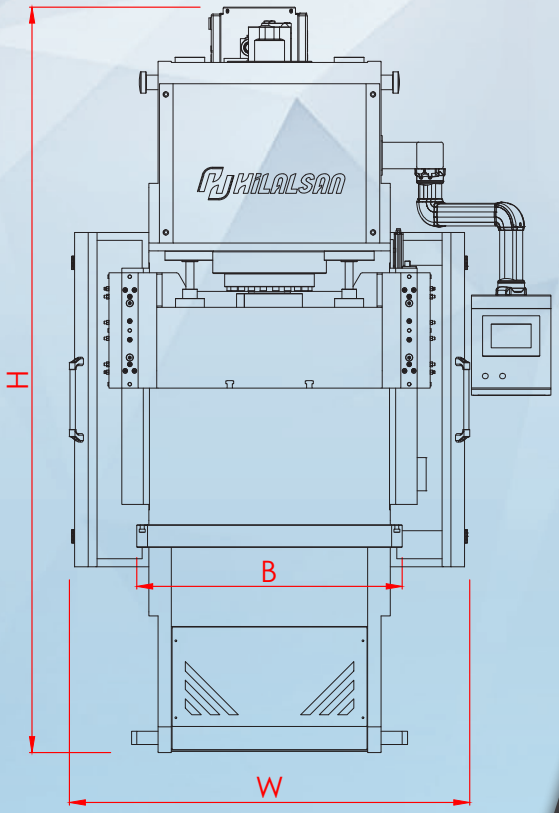
Machine body produced with advanced technology

Excellent pressure precision

New generation design with high performance

HCP Machine Type	Press Force	Stroke	Daylight	Throat depth	Top Table width	Bottom Table width	Table height	Rapid speed	Pressure Speed	Return speed	Motor power	Length	Width	Height	Approximate Weight
	Ton	mm	mm	mm	mm	mm	mm	mm/sn.	mm/sn.	mm/sn.	Kw	mm	mm	mm	Kg
		C	D	E	AxB	AxB	F					L	W	H	
HCP-40	40	400	500	270	350x650	400x750	850	150	10	150	5,5	1400	1250	2300	2550
HCP-60	60	400	500	290	400x700	450x800	850	150	10	150	7,5	1600	1350	2500	3600
HCP-80	80	400	500	320	450x750	500x850	850	150	10	150	11	1700	1400	2650	4550
HCP-100	100	400	500	330	500x800	550x900	870	150	10	150	15	1850	1500	2750	5700
HCP-150	150	400	500	350	550x850	600x950	870	145	10	150	18,5	1950	1600	2850	7400
HCP-200	200	400	500	375	600x950	650x1050	900	140	10	145	22	2050	1700	2950	9550





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HCPA SERIES

STANDART FEATURES

- Top and Bottom Table with T Channel
- Semi-Automatic two hands control by Lever and Pushbutton , for up/downstroke stop.
- Automatic two hands control by Double Pushbutton , for up/downstroke stop, automatic table return.
- Manual Adjustable Stroke
- Pressure switch
- Side Safety Cages

OPTIONAL EQUIPMENT

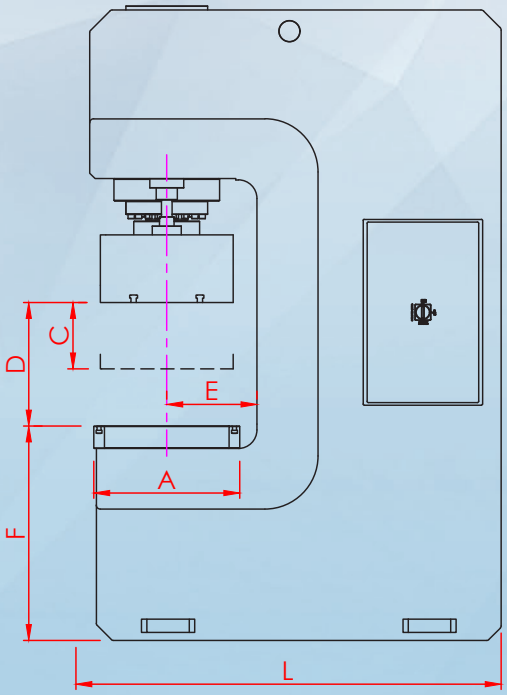
- Oil Heather
- Oil Coolant with Fan
- Light Curtain for Finger Protection

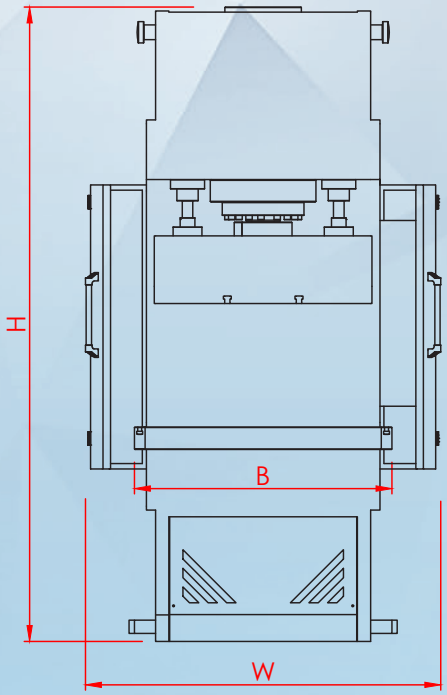
Machine body produced with advanced technology

Excellent pressure precision

New generation design with high performance

HCPA Machine Type	Press Force	Stroke	Daylight	Throat depth	Top Table width	Bottom Table width	Table height	Rapid speed	Pressure Speed	Motor power	Length	Width	Height	Approximate Weight
	Ton	mm	mm	mm	mm	mm	mm	mm/sn.	mm/sn.	Kw	mm	mm	mm	Kg
		C	D	E	AxB	AxB	F				L	W	H	
HCPA 40	40	400	500	250	350x700	500x700	800	26	9	4	1500	1000	2250	1500
HCPA 70	70	400	500	250	350x700	500x700	800	24	5	4	1500	1000	2450	2100
HCPA 100	100	400	500	300	350x700	600x800	800	25	4	4	1900	1200	2700	3400
HCPA 150	150	400	500	300	400x800	600x900	850	20	3	4	2200	1500	2800	5500
HCPA 200	200	400	500	300	500x900	600x1000	850	21	3	7,5	2300	1500	2900	8200





HYDRAULIC DRAWING PRESSES

HSP SERIES

STANDARD SPECIFICATIONS

- Steel Frame Construction Body
- PLC application and Touch Screen Control Unit
- Ram and Bottom Table with T Channel
- Adjustable Stroke
- Central lubrication Motorized
- Double hand control for working safety
- Electrical Counter
- Front safety Light Curtains
- Side Safety Cages
- Ram with sledges from 8 surface.

OPTIONAL EQUIPMENTS

- Proportional Pressure & Speed Control
- Comformity to the Europen Directives (CE)

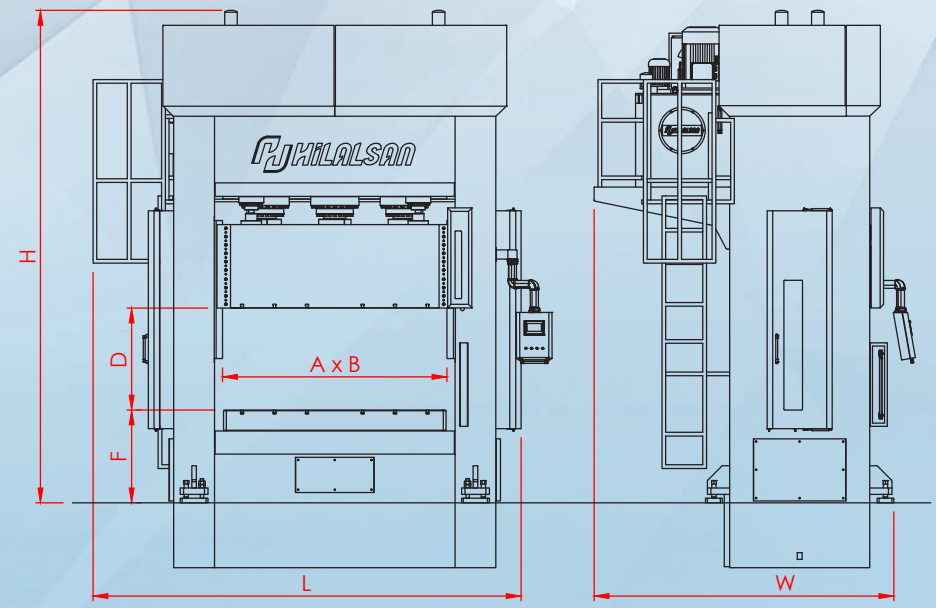
HİLALSAN®

Machine body produced with advanced technology

Excellent pressure precision

New generation design with high performance

HSP Machine Type	Ram Capacity	Cushion Capacity	Ram Stroke	Cushion Stroke	Daylight	Table width	Table height	Rapid speed	Pressure Speed	Return speed	Motor power	Length	Width	Height	Approximate Weight
	Ton	Ton	mm	mm	mm	mm	mm	mm/sn.	mm/sn.	mm/sn.	Kw	mm	mm	mm	Kg
			C		D	AxB	F					L	W	H	
HSP-100	100	40	600	200	700	1000x1200	1000	150	10	150	15	3100	2400	3600	8000
HSP-150	150	50	600	200	700	1000x1200	1000	145	10	150	18,5	3100	2450	3900	10000
HSP-200	200	70	800	300	900	1000x1200	1000	140	10	145	22	3150	2500	4050	12500
HSP-250	250	80	800	300	900	1200x1500	1100	140	10	145	30	3400	2750	4500	17000
HSP-300	300	100	800	300	900	1200x1500	1150	140	10	145	37	3400	2800	4700	19000
HSP-350	350	120	800	300	900	1200x1500	1150	140	10	145	45	3400	2800	4850	21000
HSP-400	400	150	1000	350	1100	1200x1500	1200	130	10	145	45	3500	2900	5900	24000
HSP-500	500	175	1000	350	1100	1200x1500	1200	130	9	140	55	3500	2950	6100	26000
HSP-600	600	200	1000	350	1100	1200x1500	1250	130	9	140	55	3600	3000	6150	32000
HSP-800	800	270	1000	350	1100	1500x2000	1300	120	9	130	75	4200	3500	6400	52000
HSP-1000	1000	350	1000	350	1100	1500x2000	1350	120	8	130	75	4200	3500	6500	62000
HSP-1200	1200	400	1000	350	1100	1500x2000	1350	110	8	120	75	4200	3600	6650	72500



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Leading Technology

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