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CNC HYDRAULIC

PRESSES BRAKE

# ABOUT US

**DENER MAKINA** was established in 1974, in Kayseri / TURKEY. It has been manufacturing sheet metal working machines like CNC Servo, Hybrid and Hydraulic Press Brakes, NC - CNC Hydraulic Shears, CNC Fiber Laser and Plasma Cutting machines.

Dener Makina's production facilities are located in the industrial and Freezone Area in Kayseri. Since its beginning, Dener has had the philosophy of production with the best quality and high technology. It crowns this with the ISO 9001 Quality Management System and following European Safety Standards. Dener Makina is a leading Turkish Brand in Sheet Metal Working Machinery. It has qualified workmanship and a complete machinery manufacturing facility in its 30.000 m<sup>2</sup> closed area. Today, Dener machines are working all around the world.

## 04 PUMA XL

- Standard Specs.
- Controller Units
- Back Gauges
- Technical Specs.

## 12 ADVANTAGES

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- Standard Specs.
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DENER PUMA XL CNC Press Brakes are born with the goal to be flexible, reliable, and advanced bending machines; Dener utilizes the most stringent manufacturing technologies during production to manufacture the highest quality machines. Based on proven design, Dener has increased working speeds, stroke, daylight, and pressing capacities of Puma XL machines.

DENER PUMA XL is a synchronized hydraulic press brake with a 2D graphical CNC controller and offers simple operation, quick and easy 2D or numerical part programming easy setup of the machine, and auto calculation of the bend sequence. 2D offline programming feature with S 560 PC Controller gives the possibility to end users to complete bending program on an Office PC and transfer to machine by LAN or USB. These functions make Dener PUMA XL CNC Hydraulic Press Brakes very popular in sheet metal industries.



\* Some optional equipment was used on the machine photo.



# STANDARD EQUIPMENTS



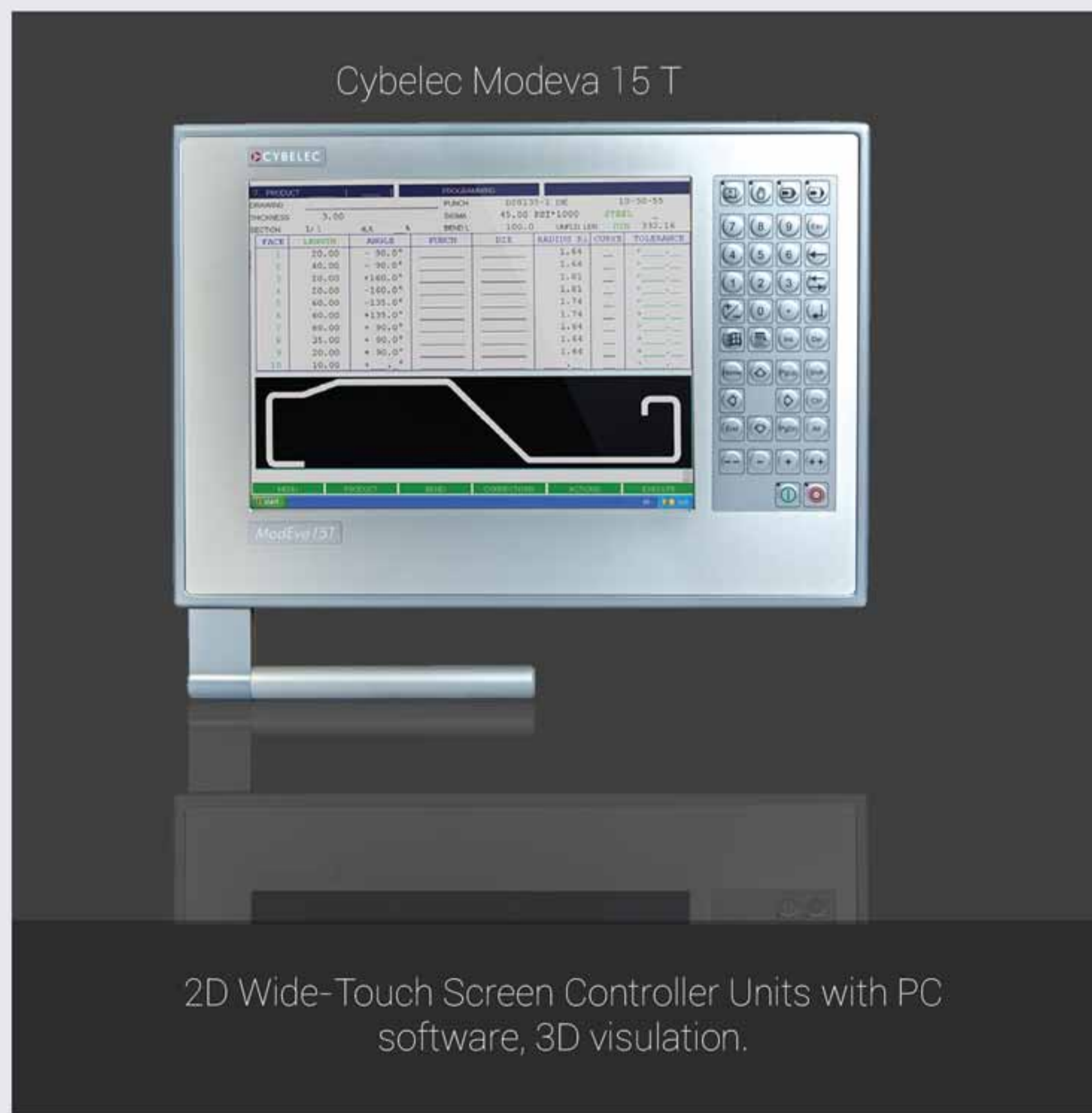
2 (X,R) Axis Back Gauge



Manual Crowning



European Type Sectioned Clamping System



2D Wide-Touch Screen Controller Units with PC software, 3D visulation.



European Type Sectioned Punch

European Type Sectioned Vdie



## CNC CONTROLLER UNITS

### DELEM DA 66T

- 2D graphical touch screen programming mode
- 3D visualisation in simulation and production
- 17" high resolution colour TFT
- Full Windows application suite
- Delem Modusys compatibility
- Delem Modusys compatibility ( module scalability and adaptivity)
- USB, peripheral interfacing
- User specific application support within the controllers multitasking environment
- Sensor bending & correction interface



Delem Da 69 T

Profile-T Offline Software

### ESA 560

- 2D graphical touch screen programming mode
- 3D visualization in simulation and production.
- Bending correction database
- 19" high resolution color TFT
- Windows XP Pro
- Hand wheel for axis movement
- 2 pcs USB port 2 pcs ethernet port 2 pcs Serila Port



### CYBELEC MODEVA15T

- Its large 15" colour Touch Screen makes the programming even more efficient and intuitive.
- Complete programming of a part on a single page.
- Quick set-up of the machine thanks to direct access to set-up.
- The numerical control comes with off-line PC 1200 software to prepare production programs and check the feasibility of parts on a desktop computer.
- Very simple and convenient data transfer from most CAD/-CAM systems.
- Higher productivity thanks to easy and rapid modifications of existing products and fully featured correction page.
- Display of error and warning messages on the console screen.
- Multi-simulation capability.
- Ethernet for Easy communication.



PUMA XL  
OPTIONALS

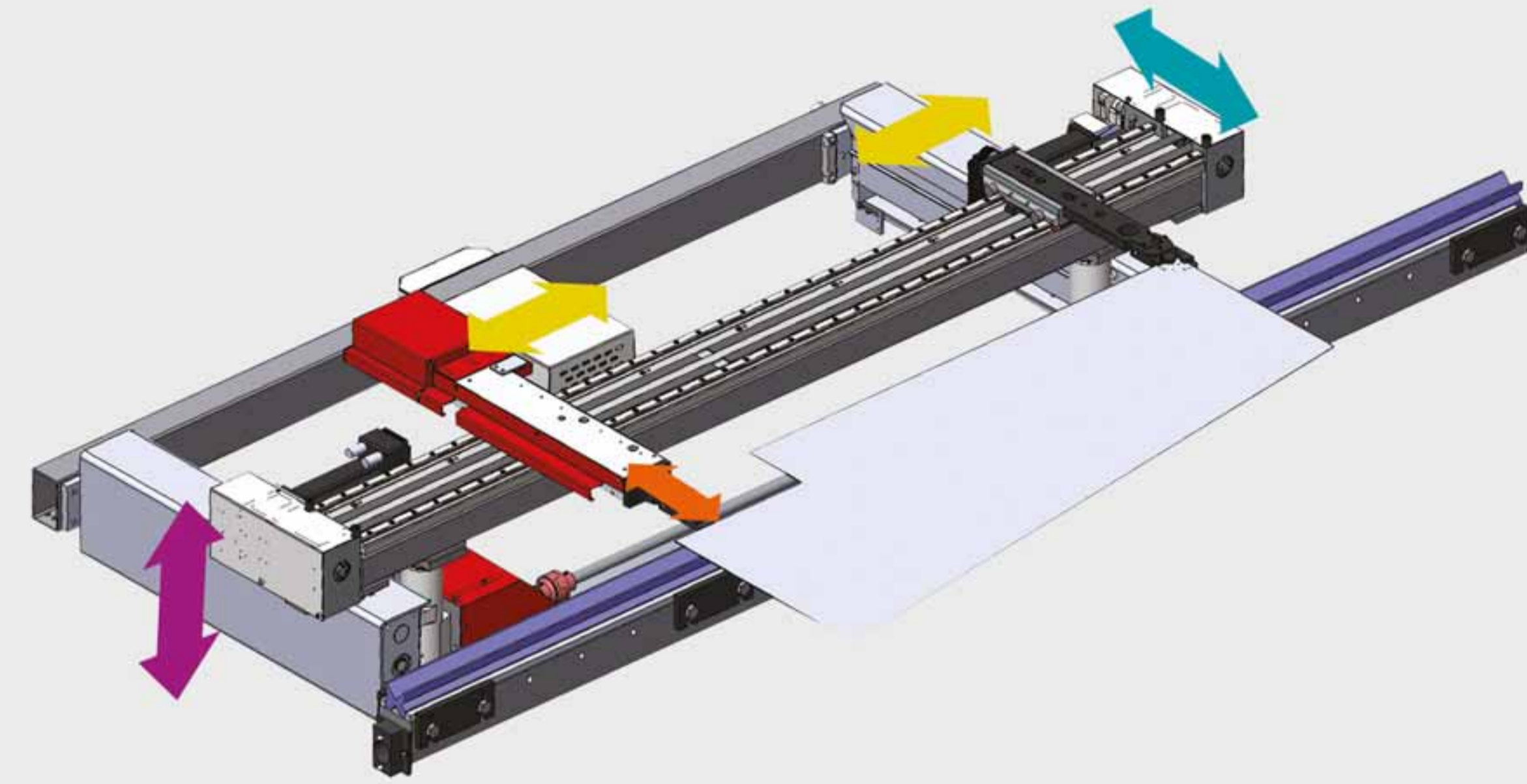


Motorized Crowing  
Hydro Mechanical (Dynamic) Crowing



All Back Gauge Configurations

# BACK GAUGES

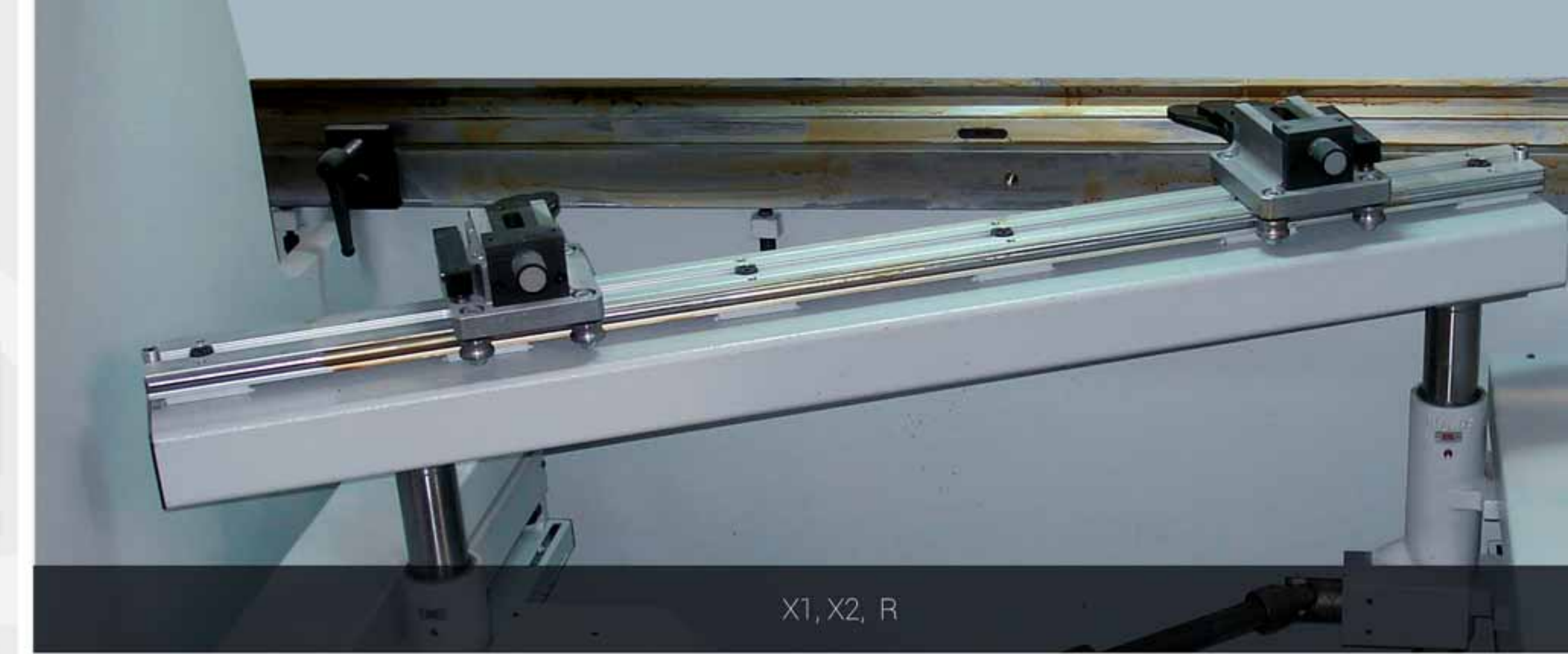


Gauging is a main concern for press brake operators. Whether you require complex part multi station bending or single bending or production of taper bends Puma XL offers solution with 6 different back gauge options to its customer. Depending on the geometry of the parts and their complexity, all back gauge models are particularly manufactured to reach high precision and high speeds. The models which we offer to our customers are:

- Standard Puma XL back gauge
- X - R type back gauge (standard ) Ball Screw for X axis, double linear guide for X axis. 650 mm X axis stroke, 160 mm R axis stroke 2 Pcs back gauge finger manual lateral movement on linear guides Positioning accuracy: +0,03 mm Repeat accuracy: +0,03 AC servo motors for X and R axis Optional back gauge axis
- X-X'-R TYPE BACK GAUGE (tilting from finger)
- X1 X2 R TYPE BACK GAUGE ( Tilting from the bar)
- X-R-Z1-Z2 TYPE BACK GAUGE (Individual Finger movement from CNC)
- X-X'-R-Z1-Z2 TYPE BACK GAUGE (Individual Finger movement from CNC and X movement from finger + 100 mm)
- X1 X2 R Z1 Z2 TYPE BACK GAUGE ( Tilting from the bar and individual finger movement) ATF Type 6 axis back gauge X1 X2 R1 R2 Z1 Z2 independent finger movements.



Side and back side protection covers are included only with CE standards



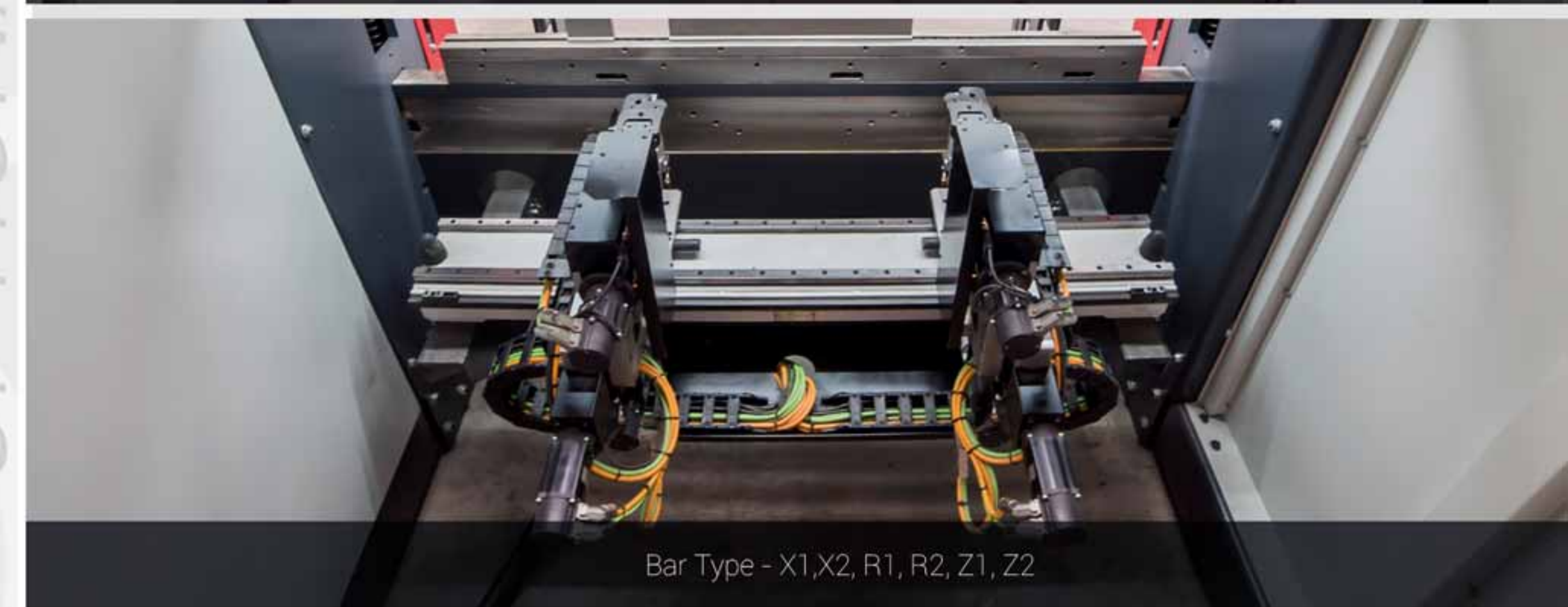
X1, X2, R



X, R, Z1, Z2



X1, X2, R, Z1, Z2



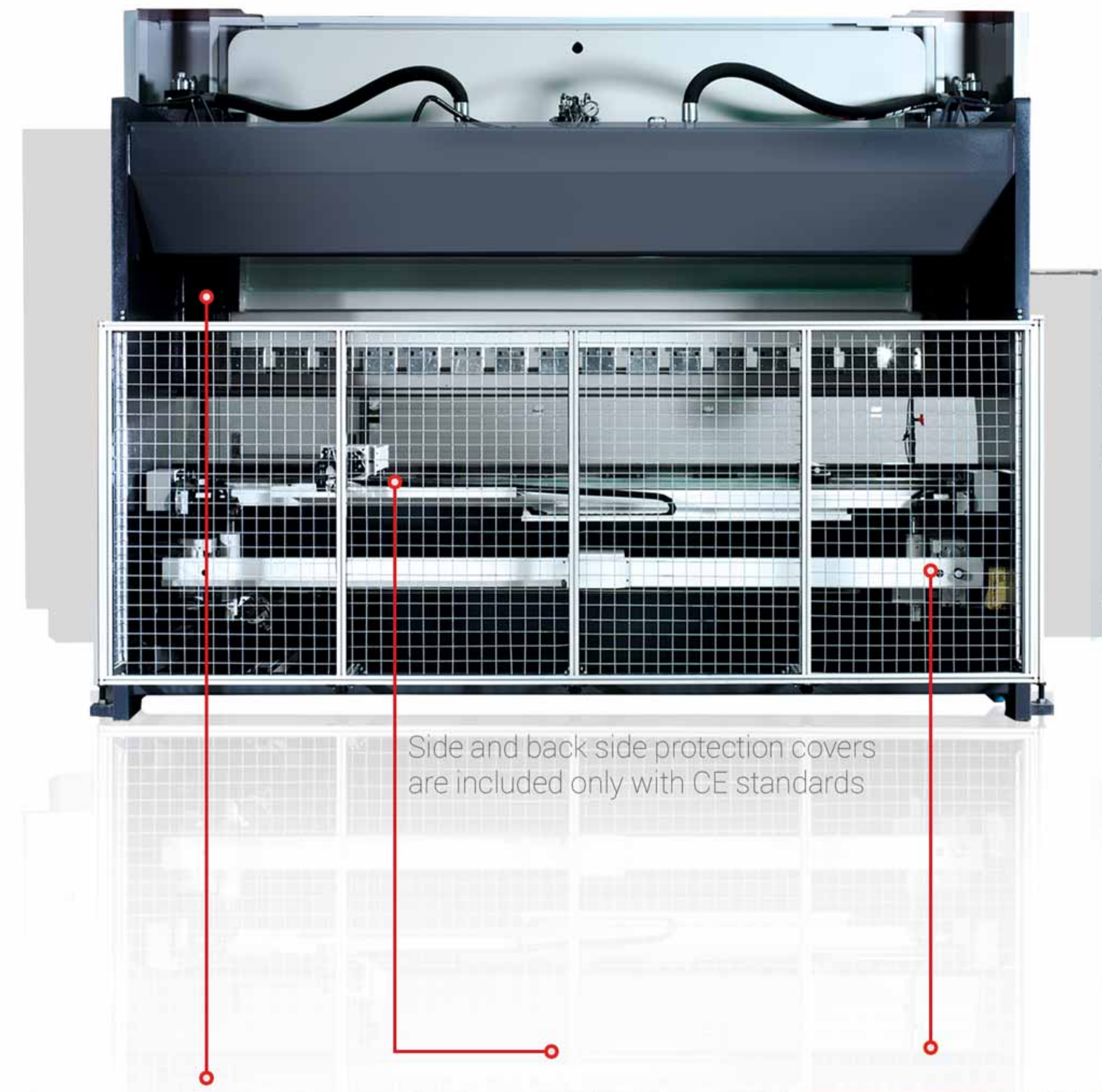
Bar Type - X1,X2, R1, R2, Z1, Z2



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



# PUMA XL SMART



Side and back side protection covers are included only with CE standards



Deeper Throat Depth



Higher Stroke  
Longer Daylight



Linear Guided  
Stronger Front Supports  
(Above 175 tons machine)



Stronger Beam Guiding System  
to stable the beam



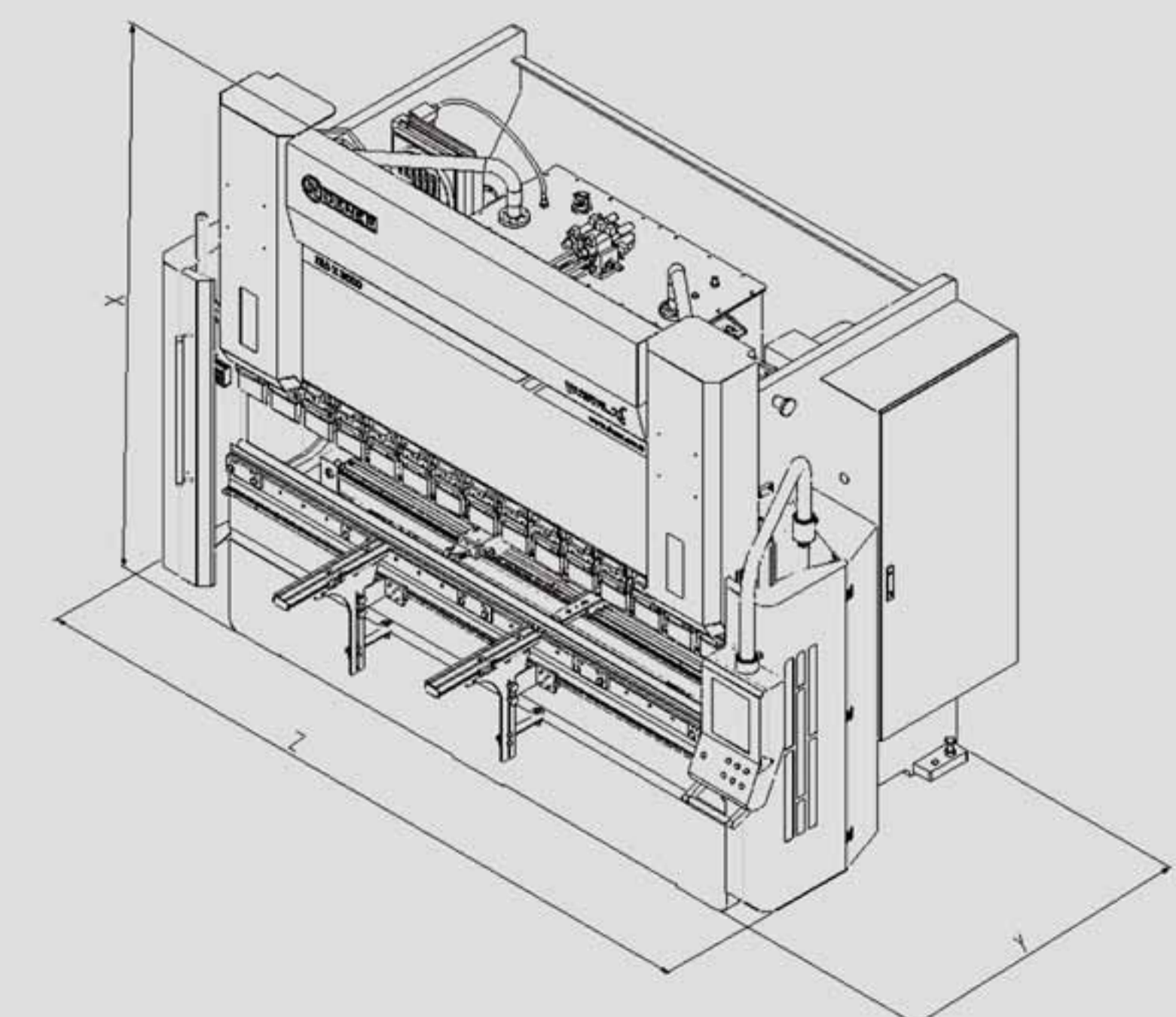
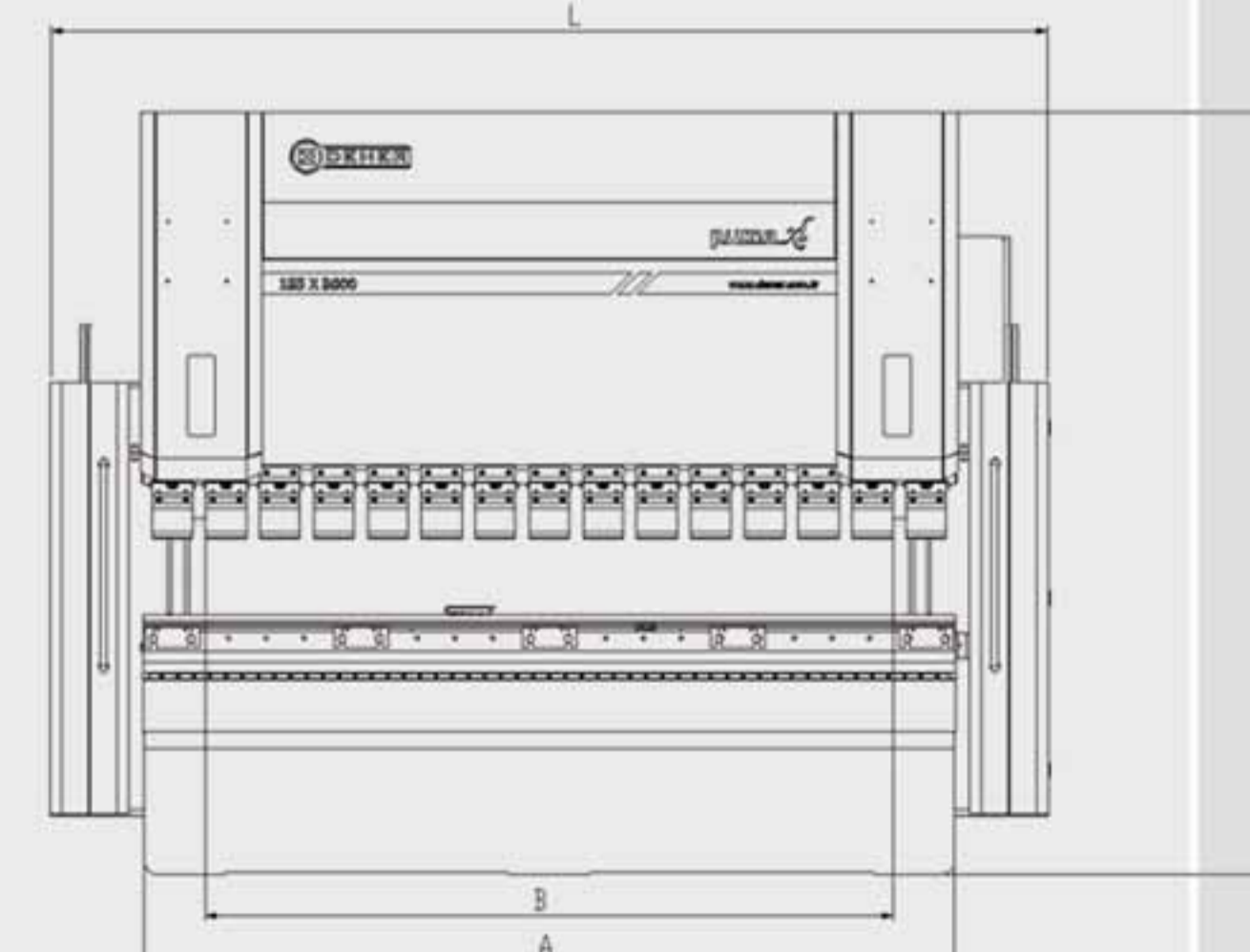
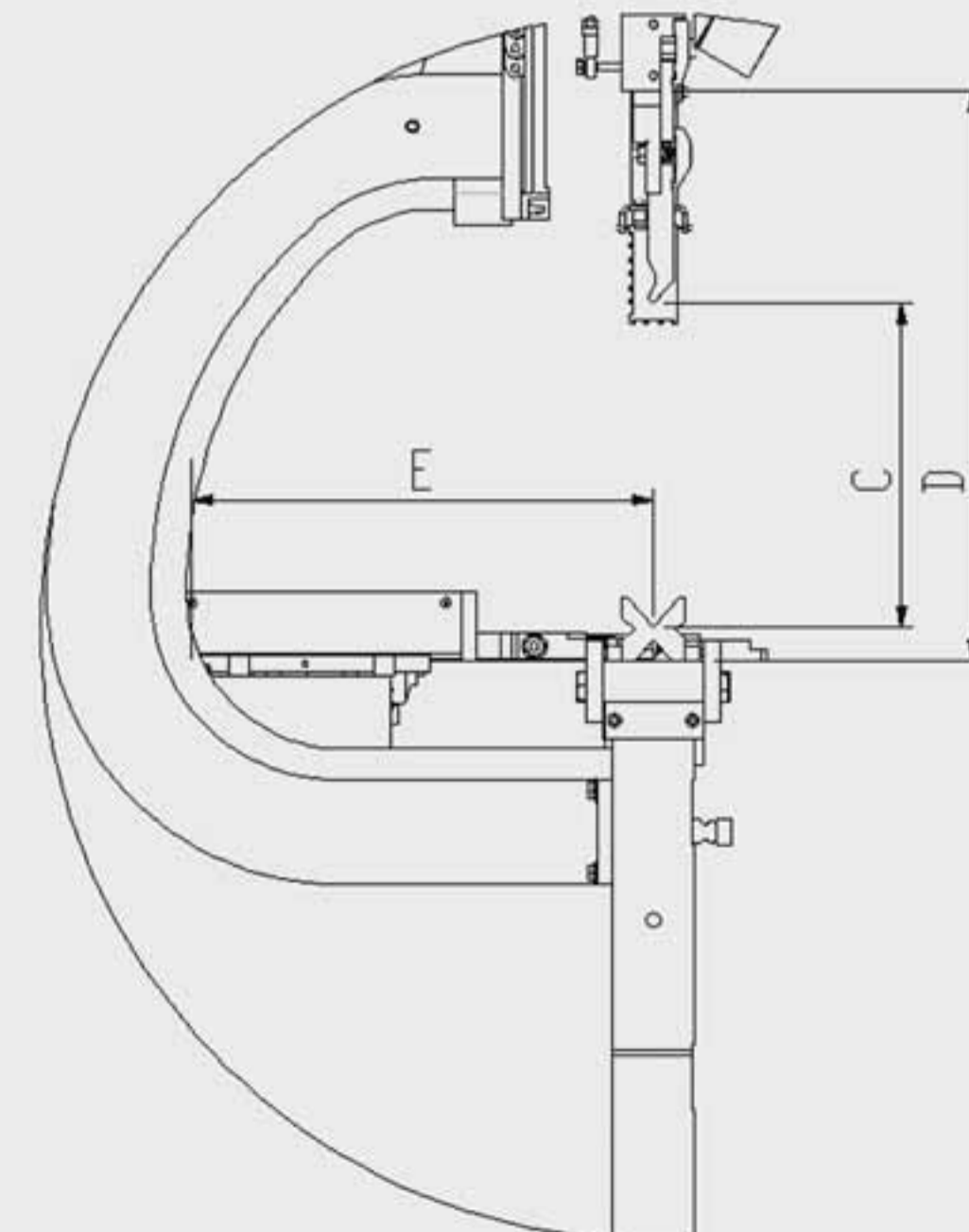
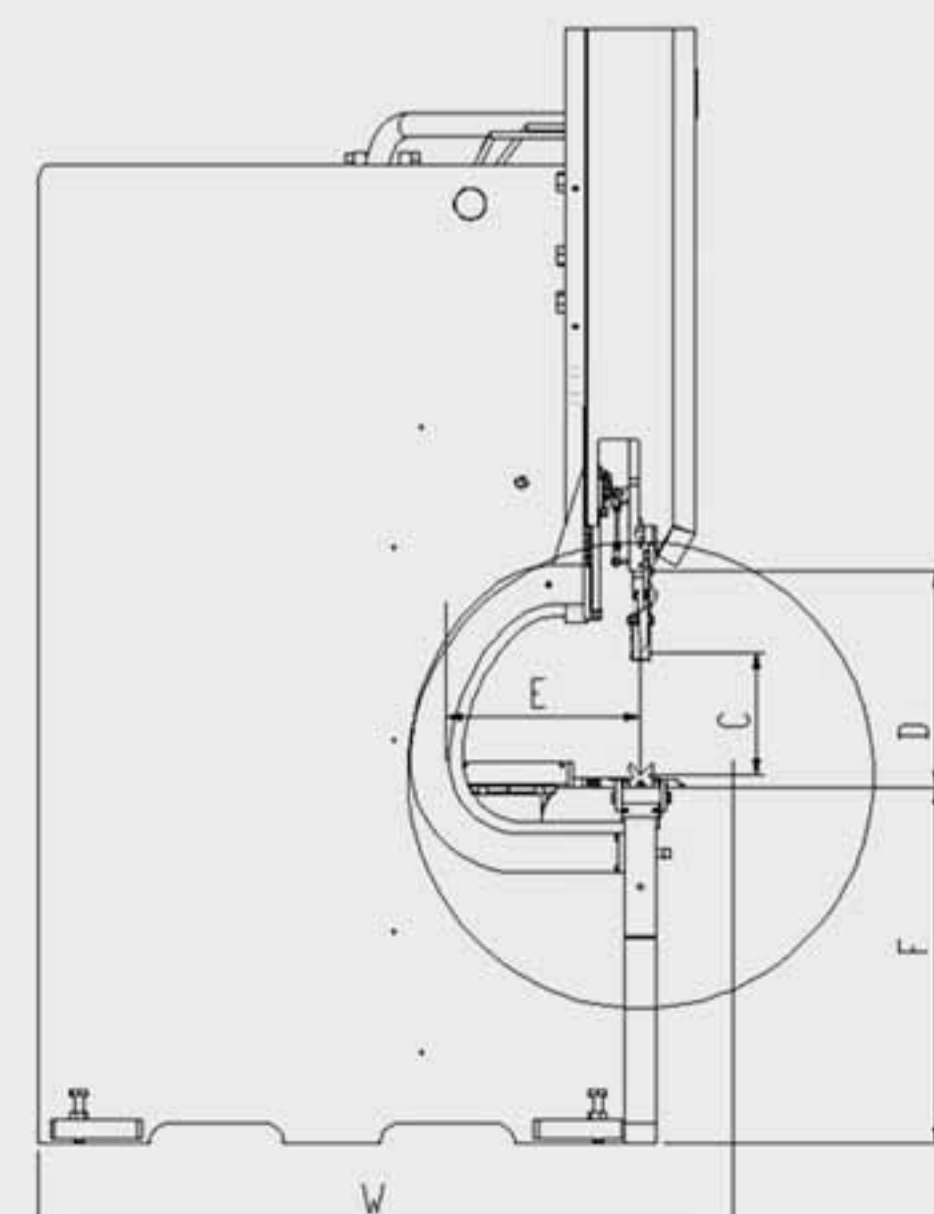
Double Linear Guided  
Stronger Back Gauges



Linear Guided Stronger  
Back Gauge X Movement

<b>PUMA XL</b>	1540	2060	2660	26100	30100	30135	30175	30220	30320	36175	36220	36320	40175	40220	40320	40400	40500	40600	60220	60320	60400	60600
Bending Length (mm) (A)	1550	2050	2600	2600	3020	3020	3020	3020	3020	3600	3600	3600	4050	4050	4050	4050	4050	4050	6050	6050	6050	6050
Bending Capacity (ton)	40	60	100	100	100	135	175	220	320	175	220	320	175	220	320	400	400	400	220	320	400	600
Approaching Speed	180	180	160	160	160	160	150	140	140	150	140	140	150	140	140	80	80	60	100	80	60	60
Bending Speed	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8
Returning Speed	160	160	150	150	150	140	130	130	120	130	130	120	130	130	120	80	80	60	100	80	60	60
Stroke (C)	220	220	300	300	300	320	350	350	400	350	350	400	350	350	400	400	400	400	350	400	400	430
Daylight (D)	410	410	530	530	530	550	600	600	650	600	600	650	600	600	650	650	650	650	600	650	650	680
Throat Depth (E)	400	400	450	450	450	450	450	450	450	450	450	450	450	450	450	600	600	600	40	450	600	600
Distance between side frames (B)	1250	1650	2150	2150	2555	2555	2555	2555	2555	3100	3100	3100	3550	3550	3550	3550	3550	3550	100	5100	5100	5100
Length (L)	2260	2600	3100	3280	3685	3700	3700	3700	3750	4250	4250	4300	4700	4700	4740	5050	4770	4815	6770	6770	6850	7180
Width (W)	1920	1965	1920	2250	2250	2240	2280	2280	2320	2280	2280	2385	2280	2280	2270	2840	3240	4050	2435	2435	2950	3785
Width without front supports (Y)	1330	1335	1330	1695	1670	1710	1710	1710	1740	1710	1710	1740	1710	1710	1725	2310	2600	3130	1760	1760	2270	3190
Height (H)	2355	2350	2360	2780	2770	2825	3025	3050	3100	3025	3050	3100	3050	3050	3100	3550	2760	4225	3050	3100	3450	4120
Table height (F)	900	900	900	900	900	900	920	920	920	920	920	920	920	920	920	1095	1095	1095	920	920	1095	1000
Pit Depth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	850	0	0	0	1030
Main motor (kW)	7,5	7,5	11	11	11	15	22	22	30	22	22	30	22	22	30	45	45	45	22	30	45	45
Oil Tank (lt)	100	100	190	190	190	190	300	300	400	300	300	400	300	300	400	400	400	600	300	400	400	600
Approximate Weight	4850	5100	6000	8200	9450	10350	12050	12550	15550	13800	14300	16800	15000	15500	17900	24200	33900	46900	21000	23900	32000	57800

DENER HAS THE RIGHT TO MAKE MODIFICATIONS IN TECHNICAL PROPERTIES WITHOUT GIVING ANY NOTIFICATION





DENER SMART XL CNC economical, stronger, faster accurate new model. Smart XL Press brake targets small and medium size sheet metal working companies. The most important features of Dener Smart XL are;

- Faster working speeds,
- Higher Bending power ,
- Deeper throat depth,
- Higher stroke and daylight,

Dener Smart XL CNC is a synchronized hydraulic press brake with numerical CNC controllers. It offers simple operation, quick and easy part programming, easy setup of the machine, auto calculation of the bend angle, and back gauge correction. 2D offline programming feature which comes with ESA 530 Controller gives possibility to end users to complete bending program on Office PC and transfer to machine by LAN or USB. These functions make Dener Smart XL CNC Hydraulic Press Brake very popular among users. Dener Smart machine has more advanced features than its competitors. Some of these features are: a strong and complete mono block welded frame, longer stroke and longer distance between frames, deeper throat depth, and a higher working table.



\* Some optional equipment was used on the machine photo.



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## STANDARD EQUIPMENTS



1 (X) axis Backgauge



CybeleC CybTouch 8 - ESA S 530

Numerical controller units, support up to 2 axis back gauges. Programming of the axes positions in tabular mode with automatic syntactical checks, angular programming, automatic calculation of the R. All programs, tools descriptions, parameters can be stored on the internal memory or on USB memory stick. These files can be exchanged with other CNC and PC through USB memory stick.



European Type Sectioned Clamping System



Linear Guided Front Support (Above 175 tons machine)



European Type Sectioned Punch

European Type Sectioned Vdie.



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## OPTIONAL EQUIPMENTS

CYBELEC  
CybTouch 8 - 12



- Large, vivid and high-contrast fully touchscreen.
- Simple pages, clear display, large keys.
- Intuitive user-friendly interface.
- Complete programming for efficient mass-production with multiple bends.
- Easy single bends with EasyBend page.
- On-line help and interactive warning pop-ups.
- Comfortable wireless data backup and software updating using PC or Notebook.
- Large variety of languages available.
- Various automatic calculations of bend functions.
- Bending sequences and programs can be memorized.
- Angle, pressure and crowning management.
- Easy manual movement.
- Offline 2D software available.

- Graphic color 7" lcd tft display (800 x 480 pixels resolution).
- 2D Graphical preview for part pieces (if graphically edited)
- 2D Graphical editing for punches and dies
- Up to 4 axes (Y1, Y2, and 2 auxiliary axes)
- Crowning control



ESA S 530 - 2D

DELEM DA 52S



### DA-52S FEATURES

- Quick, one page programming
- Hotkey navigation
- 7" VGA colour TFT
- Up to 4 axes (Y1, Y2, and 2 auxiliary axes)
- Crowning control
- Tool/material/product library
- USB, peripheral interfacing
- Advanced Y-axis control algorithms for closed loop as well as open loop valves.



2 (X,R) Axis Back Gauge

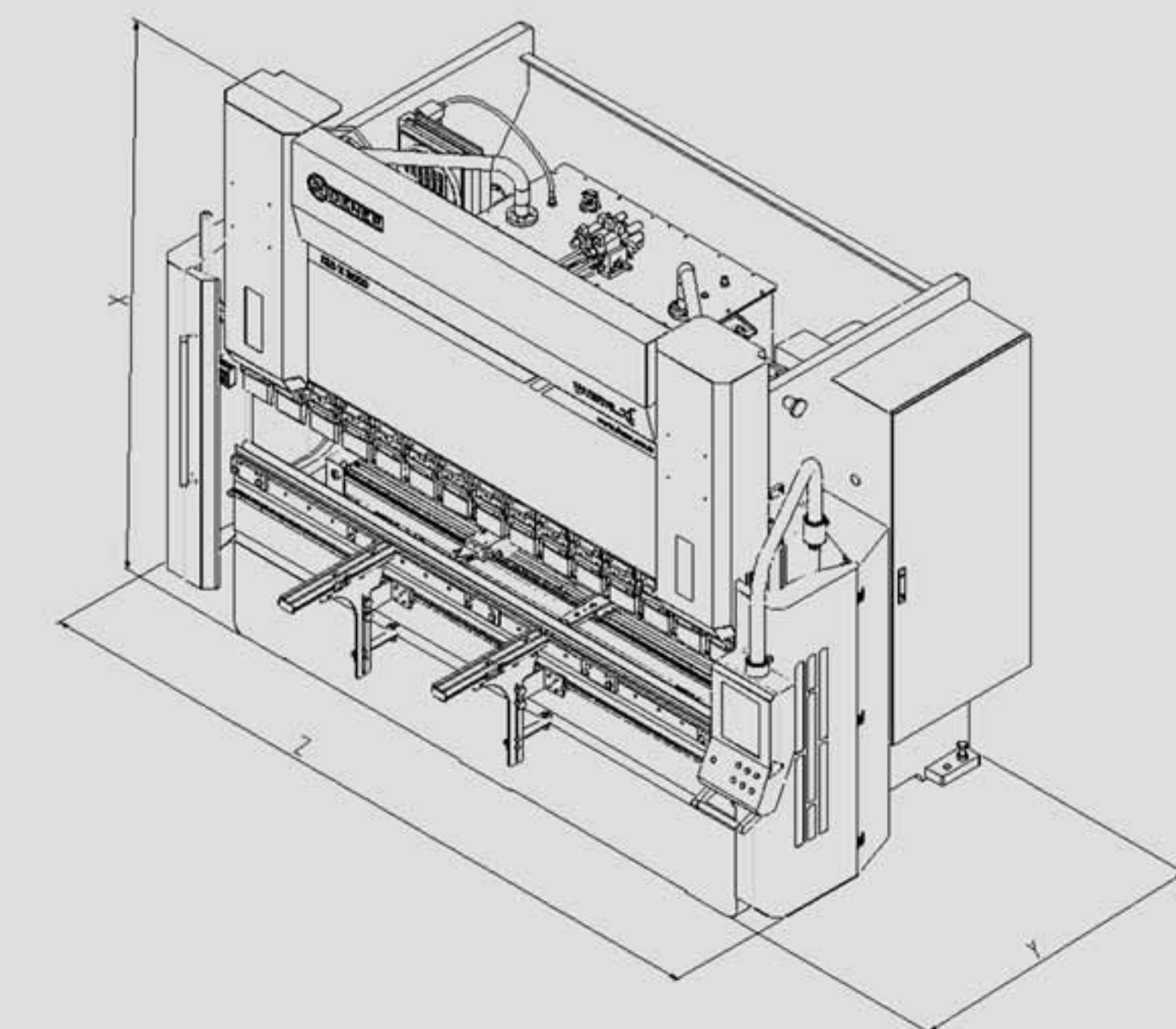
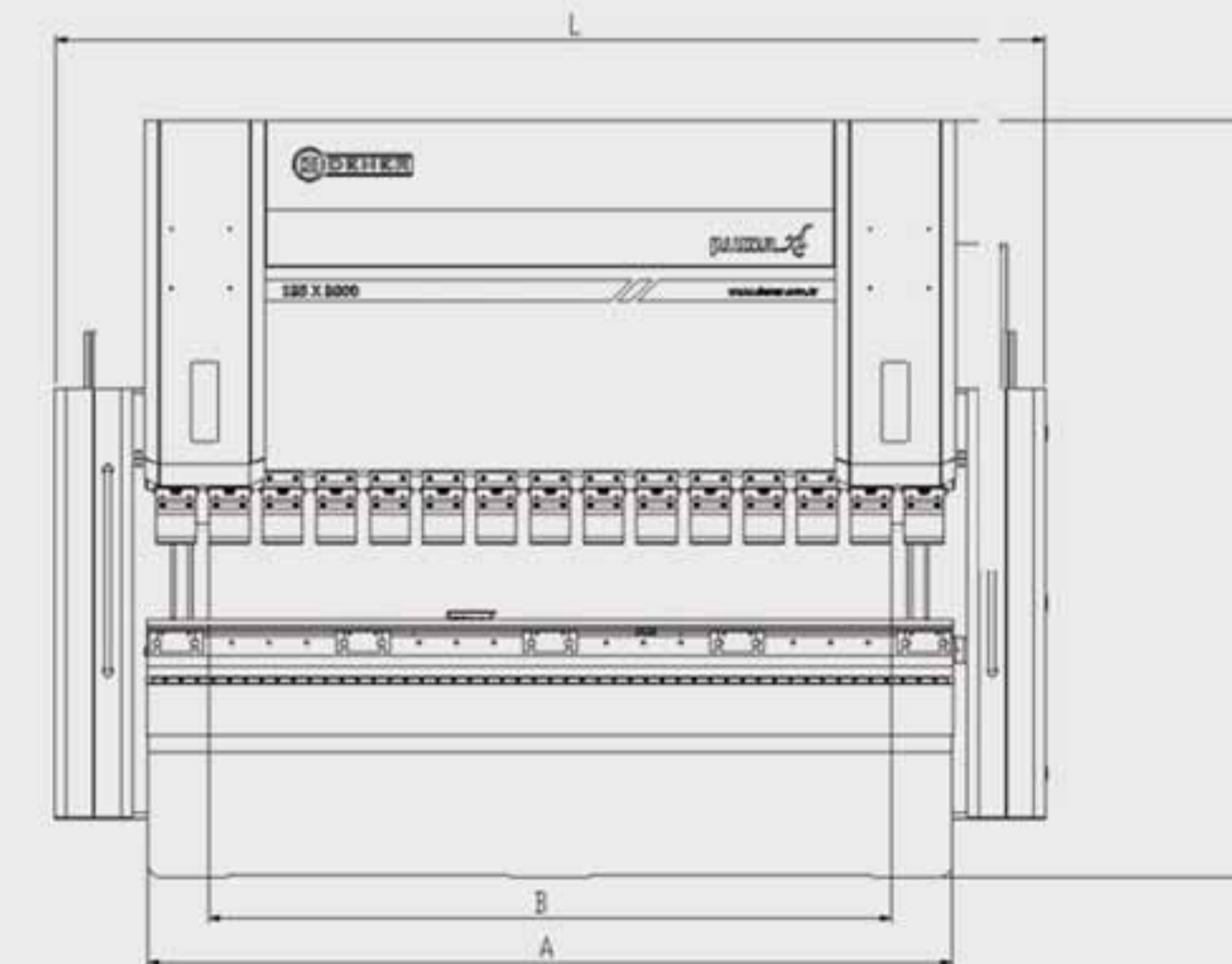
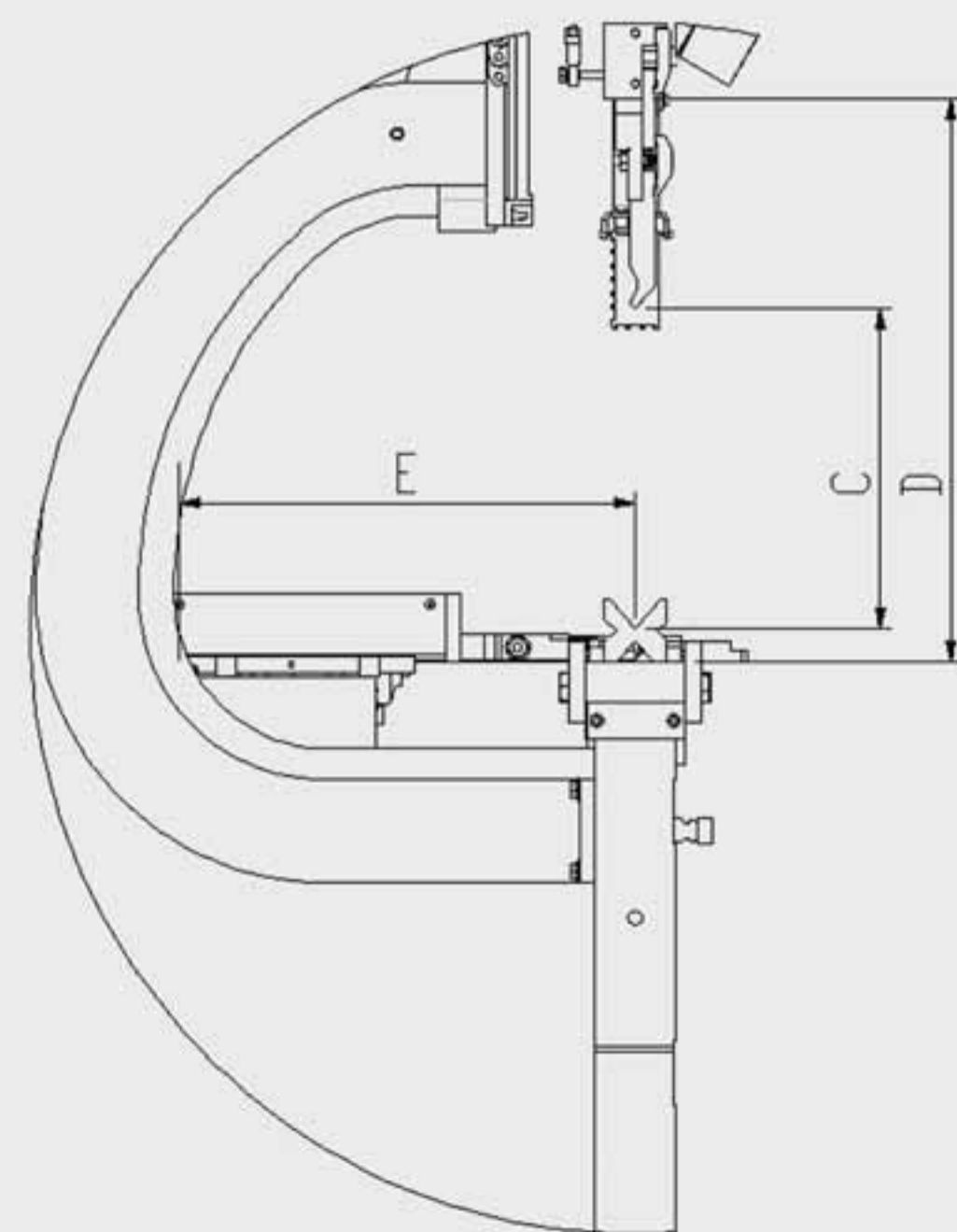
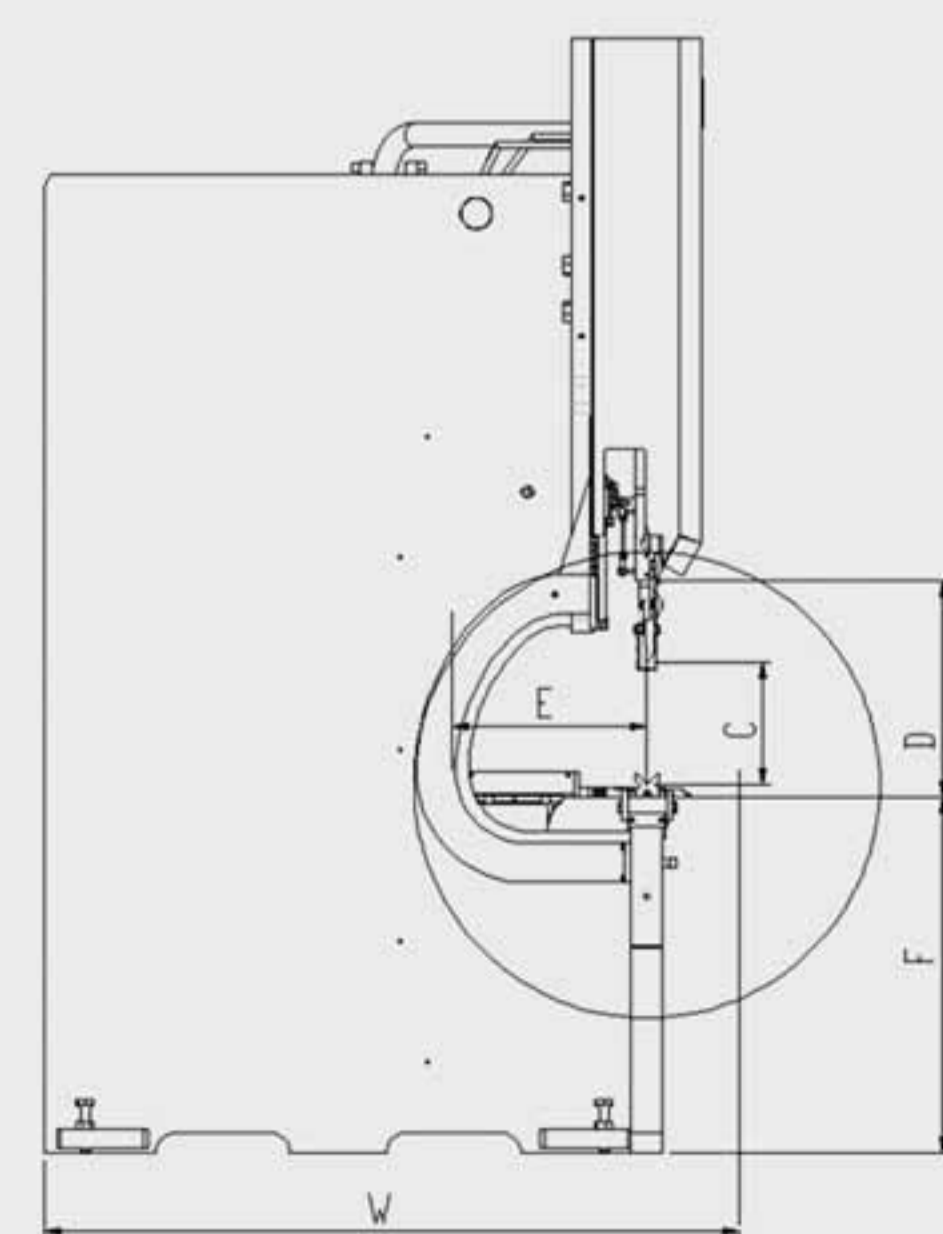


Manual Crowning



Motorized Crowning

SMART XL	1540	2060	2660	26100	30100	30135	30175	30220	30320	36175	36220	36320	40175	40220	40320	40400	40500	40600	60220	60320	60400	60600
Bending Length (mm) (A)	1550	2050	2600	2600	3020	3020	3020	3020	3020	3600	3600	3600	4050	4050	4050	4050	4050	4050	6050	6050	6050	6050
Bending Capacity (ton)	40	60	100	100	100	135	175	220	320	175	220	320	175	220	320	400	400	400	220	320	400	600
Approaching Speed	180	180	160	160	160	160	150	140	140	150	140	140	150	140	140	80	80	60	100	80	60	60
Bending Speed	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8
Returning Speed	160	160	150	150	150	140	130	130	120	130	130	120	130	130	120	80	80	60	100	80	60	60
Stroke (C)	220	220	300	300	300	320	350	350	400	350	350	400	350	350	400	400	400	400	350	400	400	430
Daylight (D)	410	410	530	530	530	550	600	600	650	600	600	650	600	600	650	650	650	650	600	650	650	680
Throat Depth (E)	400	400	450	450	450	450	450	450	450	450	450	450	450	450	450	600	600	600	40	450	600	600
Distance between side frames (B)	1250	1650	2150	2150	2555	2555	2555	2555	2555	3100	3100	3100	3550	3550	3550	3550	3550	3550	100	5100	5100	5100
Length (L)	2260	2600	3100	3280	3685	3700	3700	3700	3750	4250	4250	4300	4700	4700	4740	5050	4770	4815	6770	6770	6850	7180
Width (W)	1920	1965	1920	2250	2250	2240	2280	2280	2320	2280	2280	2385	2280	2280	2270	2840	3240	4050	2435	2435	2950	3785
Width without front supports (Y)	1330	1335	1330	1695	1670	1710	1710	1710	1740	1710	1710	1740	1710	1710	1725	2310	2600	3130	1760	1760	2270	3190
Height (H)	2355	2350	2360	2780	2770	2825	3025	3050	3100	3025	3050	3100	3050	3050	3100	3550	2760	4225	3050	3100	3450	4120
Table height (F)	900	900	900	900	900	900	920	920	920	920	920	920	920	920	920	1095	1095	1095	920	920	1095	1000
Pit Depth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	850	0	0	0	1030
Main motor (kW)	7,5	7,5	11	11	11	15	22	22	30	22	22	30	22	22	30	45	45	45	22	30	45	45
Oil Tank (lt)	100	100	190	190	190	190	300	300	400	300	300	400	300	300	400	400	400	600	300	400	400	600
Approximate Weight	4200	4700	5500	7700	8400	9300	11000	11500	14500	12500	13500	15500	14300	15000	16500	22800	32500	45500	19800	21700	29800	55600



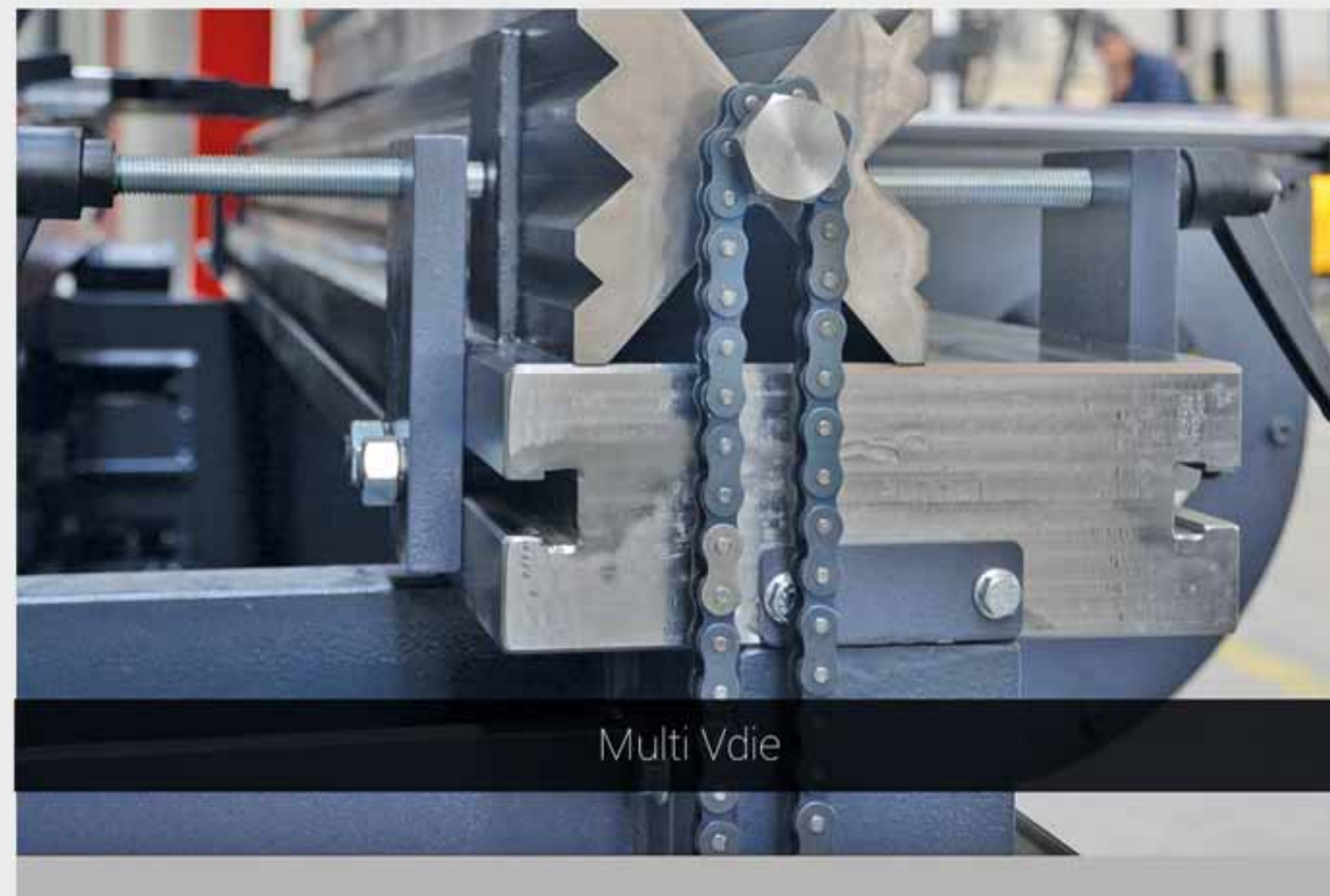
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Expand your  
horizon!



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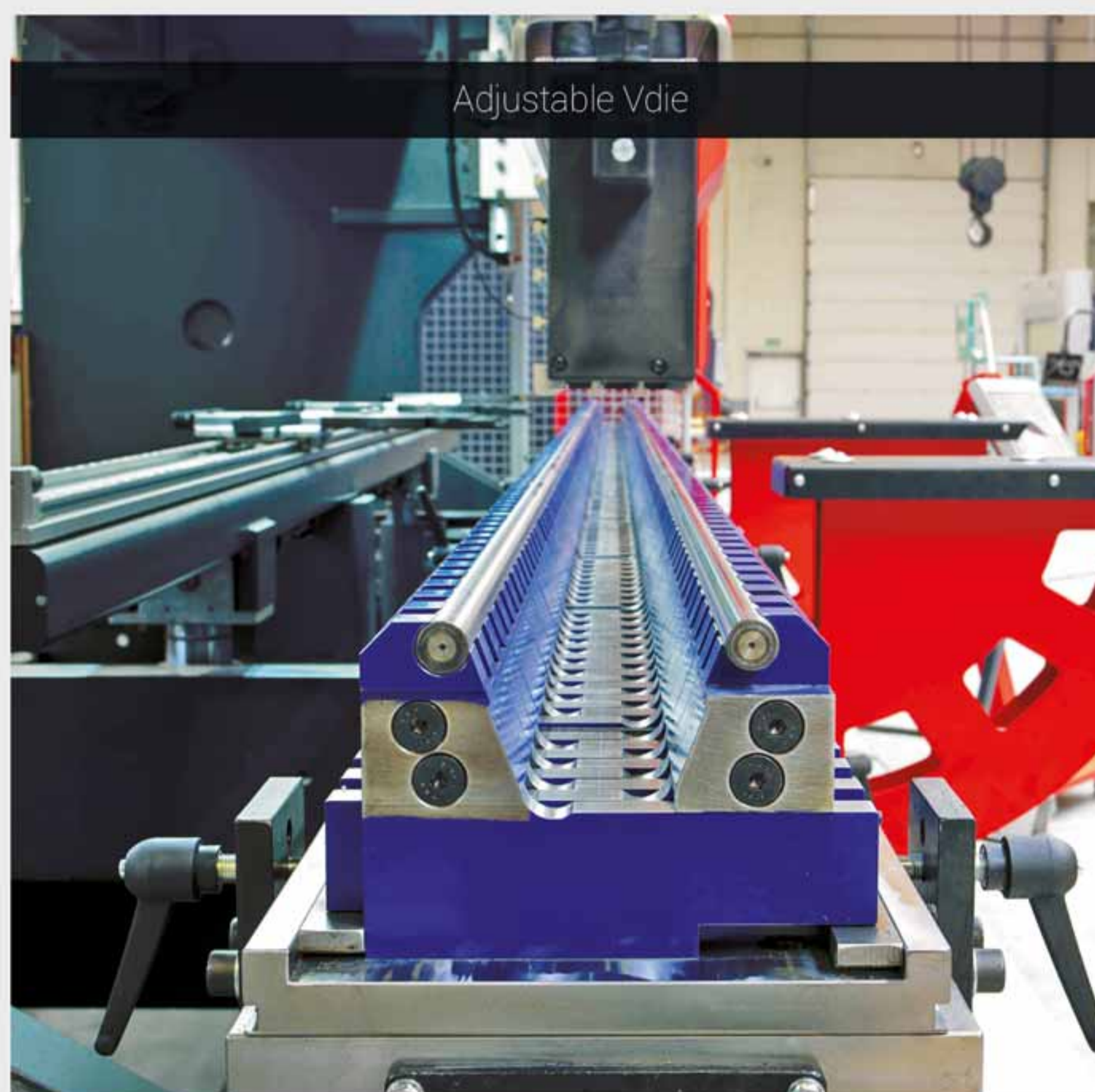
## TOOLING



Multi Vdie

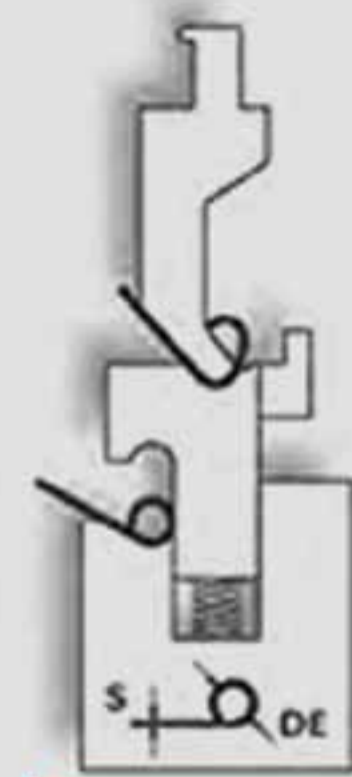


Wide Table

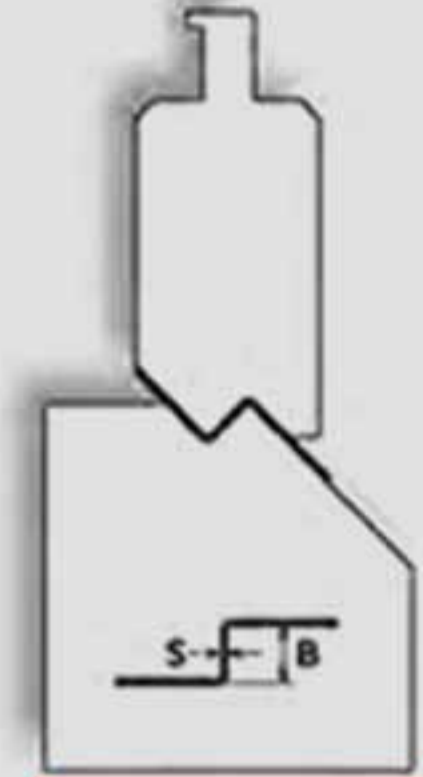


Adjustable Vdie

## SPECIAL TOOLING



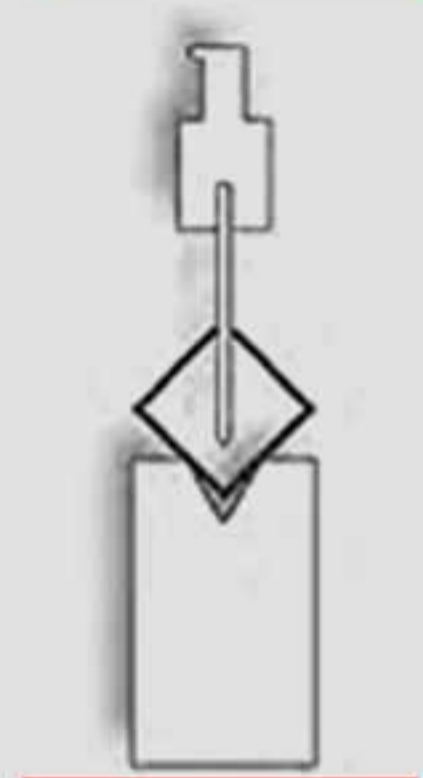
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DE SP-12



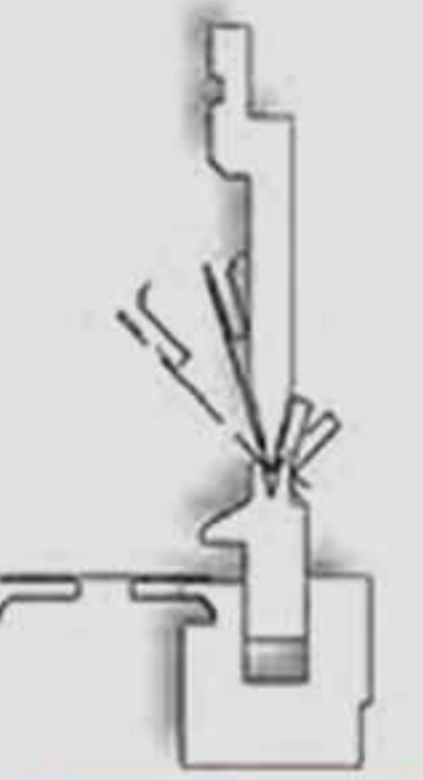
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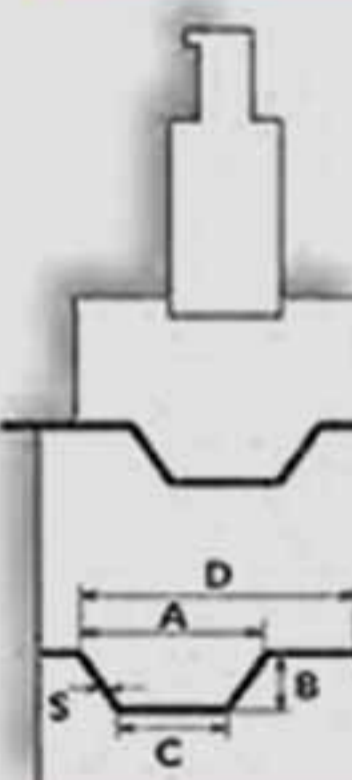
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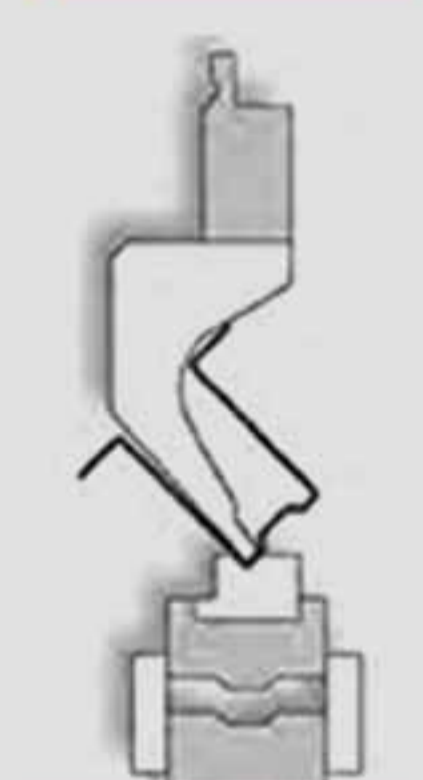
DE SP-21



DE SP-38



DE SP-14



DE SP-48



DE SP-49



DE SP-58



Throat Depth Options as,  
500 mm  
600 mm  
750 mm  
1000 mm  
1250 mm

## SAFETY



CE Safety System with Laser Beam



Akas III  
Motorized CE  
Laser Beam  
Safety System

# CLAMPING



Dener Type Pneumatic Clamping System



Manual Quick Clamping System



Wila NSCL-I-HC/UPB Hydraulic Punch Clamping



Wila NSCL-I-MC/UPB Mechanical Punch Clamping



Wila NSCR-I-MC-CNC/UPB Hydraulic Die Clamping



Wila NSCR-I-HC-H/UPB Mechanical Die Clamping

ACCESSORIES PUMARXL  
OPTIONALS SMART XL



Double Linear Guiding System to stable the Beam



Hydraulic Oil Cooling Fan System  
Heater For Oil Tank



AC For Electrical Cabinet  
Heater For Electrical Cabinet



CNC Controlled Sheet Followers  
(Puma XL only)



Additional Back Gauge Fingers  
for 2-3-4-5-6 Axis Back Gauge



Tandem Preparation

ACCESSORIES PUMA XL  
OPTIONALS SMART XL





One Technology in all around the world !



One Technology in all around the world !



# Special Projects

