



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

**puma xl**

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 3D Graphical CNC controller and offers simple operation, quick and easy 3D or numerical part programming easy setup of the machine, and auto calculation of the bend sequence. 3D and DXF programming feature with ESA S 660 W Controller gives the possibility to end users. These functions make Dener PUMA XL CNC Hydraulic Press Brakes very popular in sheet metal industries.

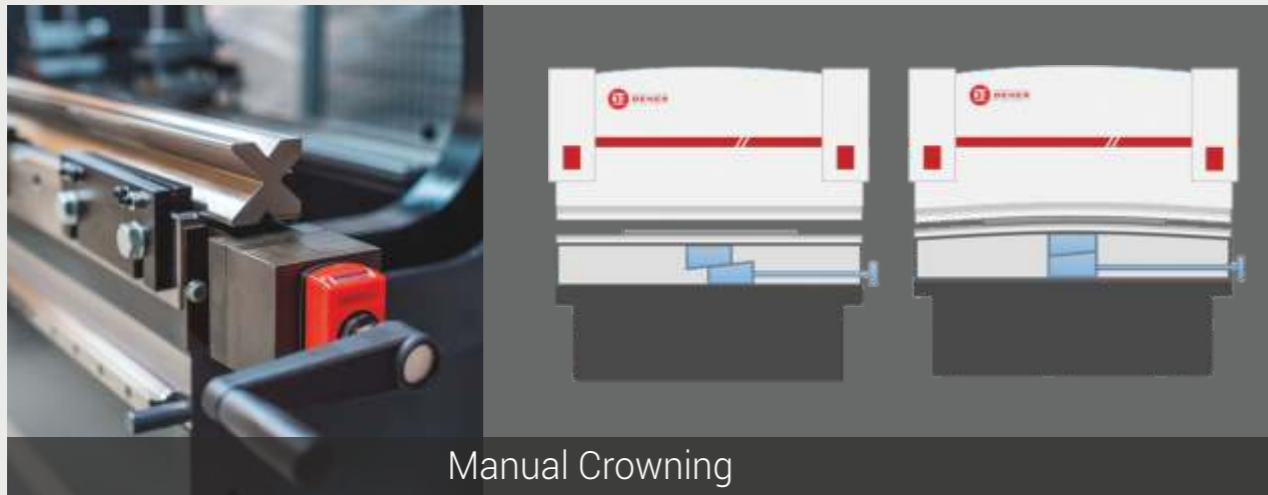
**Forming Challenges  
Simplified Solution.**



## STANDARD EQUIPMENT



2 (X,R) Axis Back Gauge



Manual Crowning



Front Support Arms



ESA S 660 W Control Unit

PUMA XL  
PUMA XL  
STANDARD EQUIPMENT  
PUMA XL



European Type  
Sectioned Punch  
European Type  
Sectioned V Die



# CONTROLLERS

STANDARD

## ESA S 660 W CONTROLLER

- 19" 4:3 high-resolution 3D touch screen
- 2.5" Hard disk drive 20GB or more
- Fiber optic interface
- 3D Programming
- Direct import of tools shapes (.dxf files)
- Automatic bending sequence search and collision control
- Remote access
- Windows 7 operating system



OPTIONAL

## CYBELEC MODEVA15T

- 15" colour touch screen
- Multi-simulation capability.
- On-screen finger profile drawing.
- Very simple and convenient data transfer
- Automatic bend listing
- EC safety-cycle management
- Ethernet for easy communication



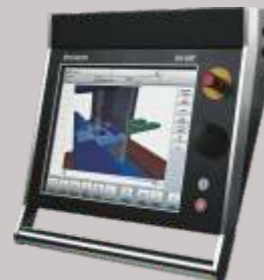
OPTIONAL

## 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
- USB, peripheral interfacing
- User specific application support with in the controllers
- Multitasking environment
- Sensor bending & correction interface

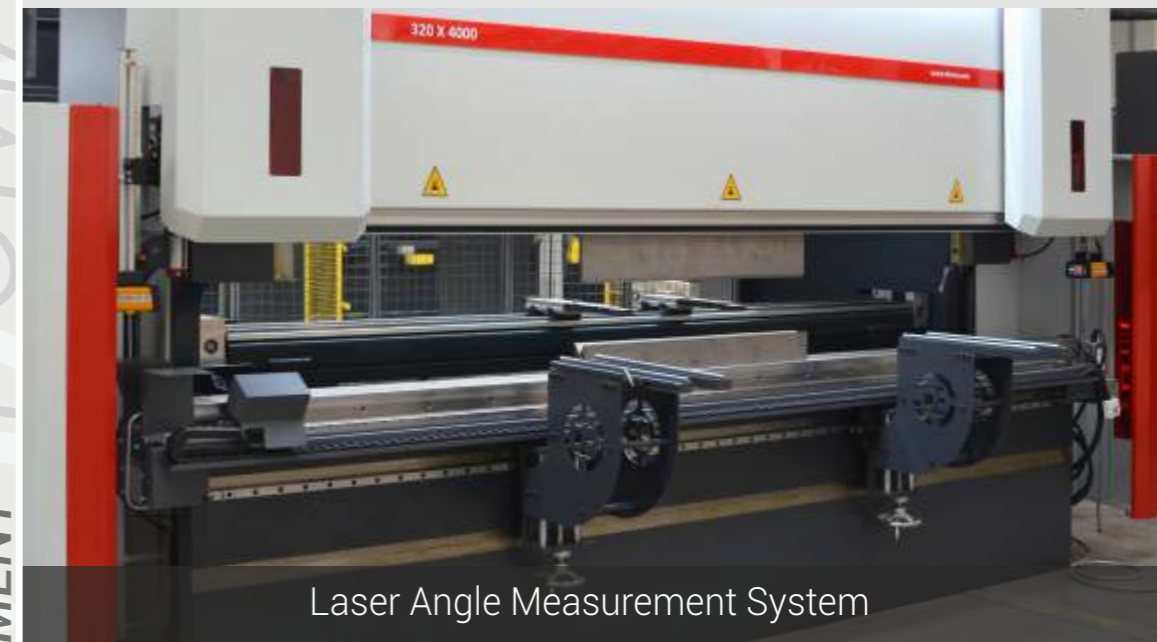
## DELEM DA-69T



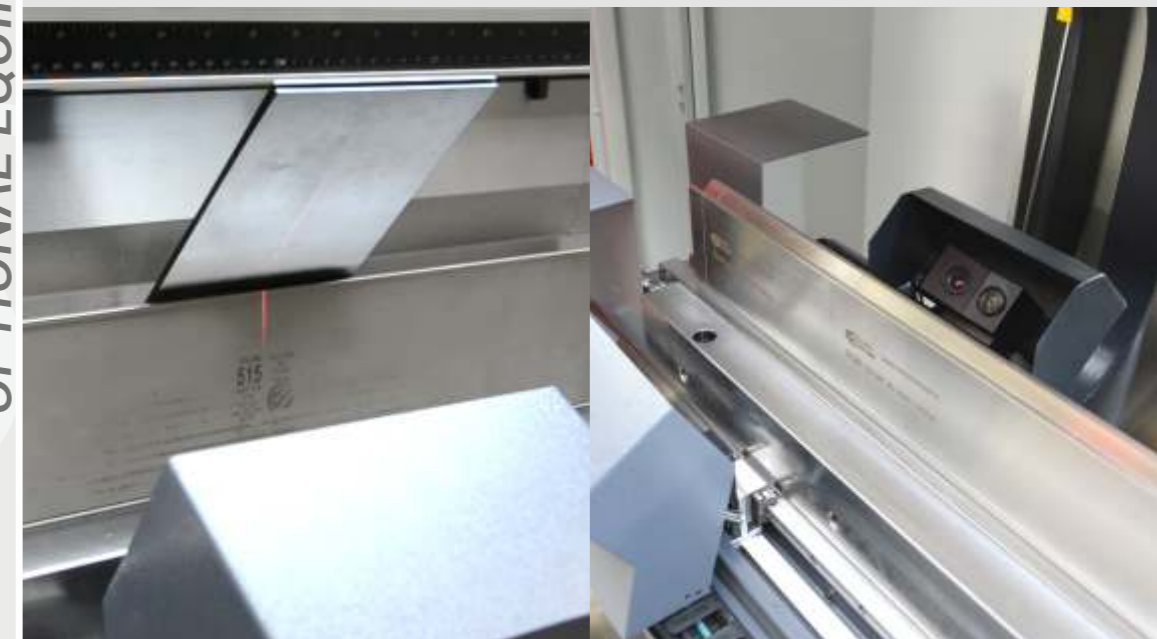
- 3D and 2D graphical touch screen programming mode
- 3D visualisation in simulation and production
- 17" high resolution colour TFT
- Full Windows application suite
- Delem modusys compatibility
- USB, peripheral interfacing
- User specific application support with in the controllers
- Multitasking environment
- Sensor bending & correction interface



- Motorized Crowning  
- Hydro Mechanical Crowning

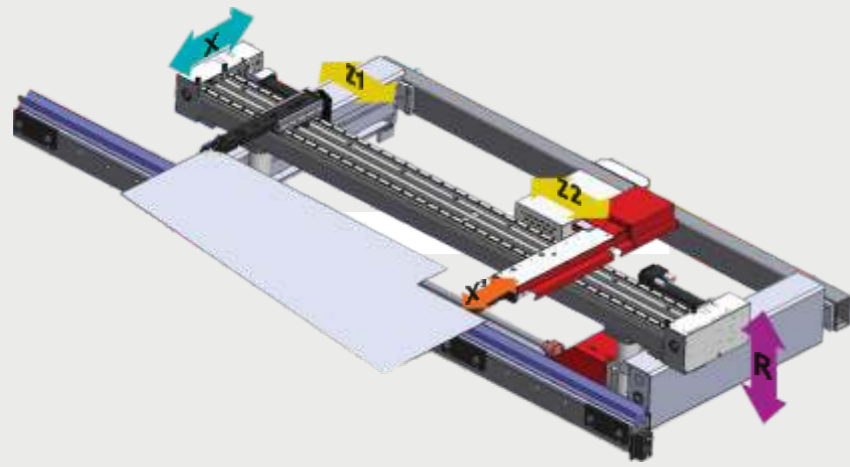


Laser Angle Measurement System



OPTIONAL EQUIPMENT

# BACK GAUGES



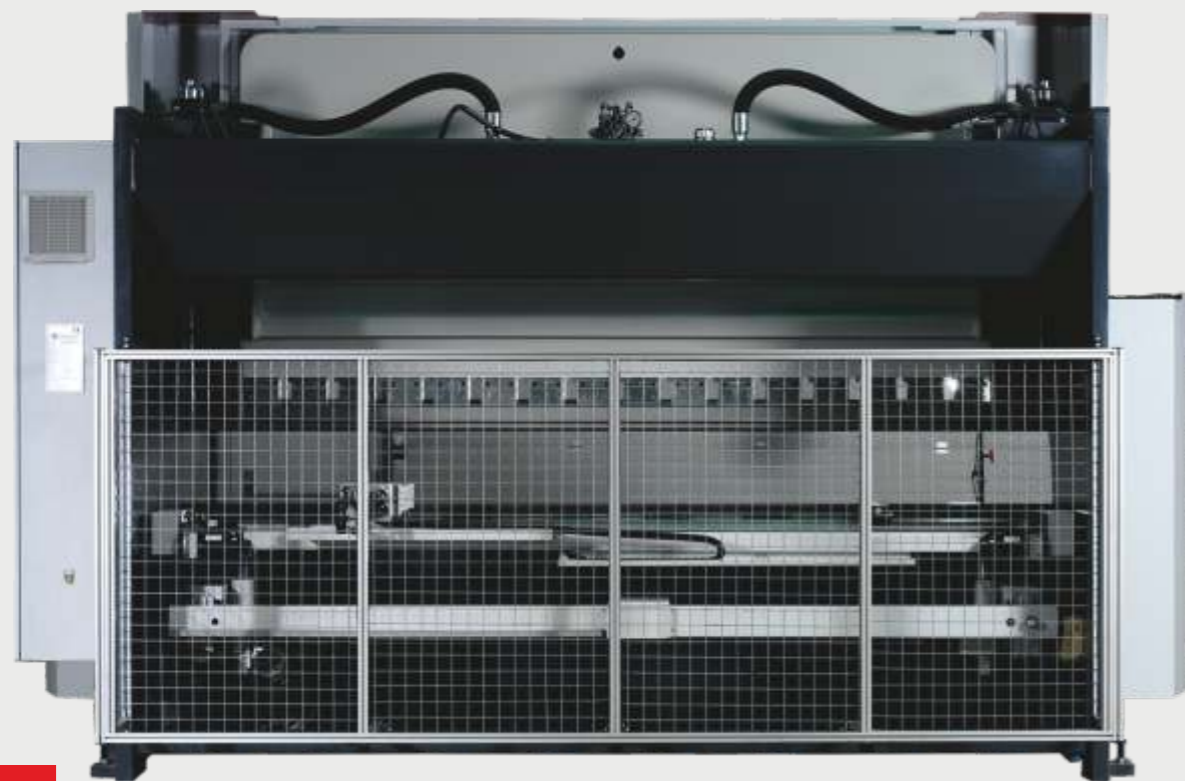
Gauging is a main concern for press brake operators. Whether you require complex part multi station bending or single bending or production of taper bends Puma XL offers solution with 6 different back gauge options to its customer. Depending on the geometry of the parts and their complexity, all back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

## Standard Back Gauge Systems

- X - R CNC axes
- Ball screw driven X axis
- Two linear guides per ball screw
- 750 mm X axis stroke (1040 mm total gauge distance)
- 250mm R axis stroke
- Positioning accuracy of X axis  $\pm 0.03\text{mm}$

## Optional Back Gauge Systems

- X1, X2, R
- X, R, Z1, Z2
- X, X', R, Z1, Z2
- X1, X2, R, Z1, Z2
- X1, X2, R1, R2, Z1, Z2 (ATF TYPE)



X1, X2, R



X, R, Z1, Z2



X1, X2, R, Z1, Z2

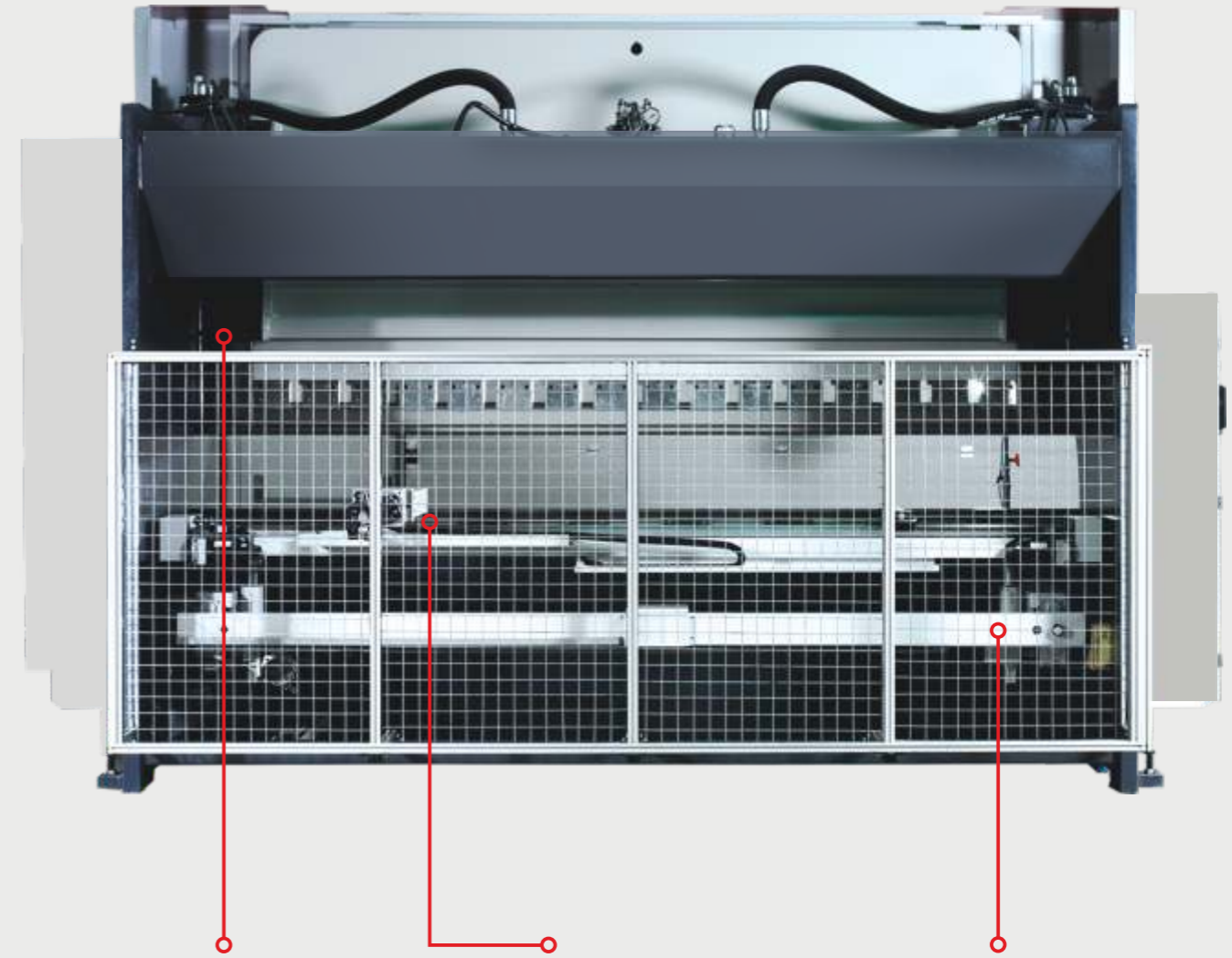


Bar Type - X1, X2, R1, R2, Z1, Z2



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

PUMA XL OPTIONAL EQUIPMENT



Deeper Throat Depth



Higher Stroke Longer Daylight



Linear Guided Stronger Front Supports (175 Tons and above machines)



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
<b>Bending Length (mm) (A)</b>	1550	2050	2600	2600	3020	3020	3020	3020	3020		3650	3650	3650	4050	4050	4050	4050	4050	4050	6050	6050	6050	6050
<b>Bending Capacity (ton)</b>	40	60	60	100	100	135	175	220	320		175	220	320	175	220	320	400	500	600	220	320	400	600
<b>Approaching Speed (mm/sn)</b>	180	180	180	160	160	160	150	140	140		150	140	140	150	140	140	80	80	60	100	80	60	60
<b>Bending Speed (mm/sn)</b>	10	10	10	10	10	10	10	10	10		10	10	10	10	10	10	10	10	10	10	10	8	8
<b>Returning Speed (mm/sn)</b>	160	160	150	150	150	140	130	130	120		130	130	120	130	130	120	80	80	60	100	80	60	60
<b>Stroke (C)</b>	220	220	220	300	300	320	350	350	400		350	350	400	350	350	400	400	400	455	350	350	400	455
<b>Daylight (D)</b>	410	410	410	530	530	550	600	600	650		600	600	650	600	600	650	650	650	650	600	650	650	680
<b>Throat Depth (E)</b>	400	400	450	450	450	450	450	450	450		450	450	450	450	450	450	600	600	600	450	450	600	600
<b>Distance Between Side Frames (B)</b>	1250	1650	2150	2150	2555	2555	2555	2555	2555		3100	3100	3100	3550	3550	3550	3550	3550	3550	5100	5100	5100	5100
<b>Length (L)</b>	2445	2845	3345	3320	3725	3745	3745	3745	3785		4290	4290	4330	4740	4740	4780	5000	5000	5000	6775	6815	6855	7100
<b>Width (W)</b>	2200	2200	1930	2260	2260	2250	2290	2290	2290		2290	2290	2290	2290	2290	2290	2770	2770	4050	2300	2280	2780	3275
<b>Width Without Front Supports (Y)</b>	1330	1335	1330	1695	1670	1710	1710	1710	1740		1710	1710	1740	1710	1710	1725	2310	2600	2130	1760	1760	2070	3190
<b>Height (H)</b>	2390	2390	2390	2780	2780	2835	3030	3055	3100		3030	3055	3100	3030	3050	3100	3560	3560	4225	3010	3110	3615	3910
<b>Table Height (F)</b>	900	900	900	900	900	900	900	920	920		920	920	920	920	920	920	1095	1095	1095	920	920	1095	1000
<b>Pit Depth</b>	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	850	0	0	0	1030
<b>Main Motor (kW)</b>	7,5	7,5	7,5	11	11	15	22	22	30		22	22	30	22	22	30	45	45	45	22	30	45	45
<b>Oil Tank (lt)</b>	100	100	100	190	190	190	300	300	400		300	300	400	300	300	400	400	400	600	300	400	400	600
<b>Approximate Weight</b>	4250	4800	5500	7900	8550	9300	11150	11250	14450		12350	12500	15650	13250	13350	16750	23950	25200	25700	18200	23100	31400	50200

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

