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R-2108-18-SA-01-EN

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

Dener Makina's production facilities are located in the industrial and Freezone Area in Kayseri. Since it's beginning, Dener has the philosophy of production with the best quality and latest 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 it's 30.000 m2 closed area. Today, Dener machines are working all around the



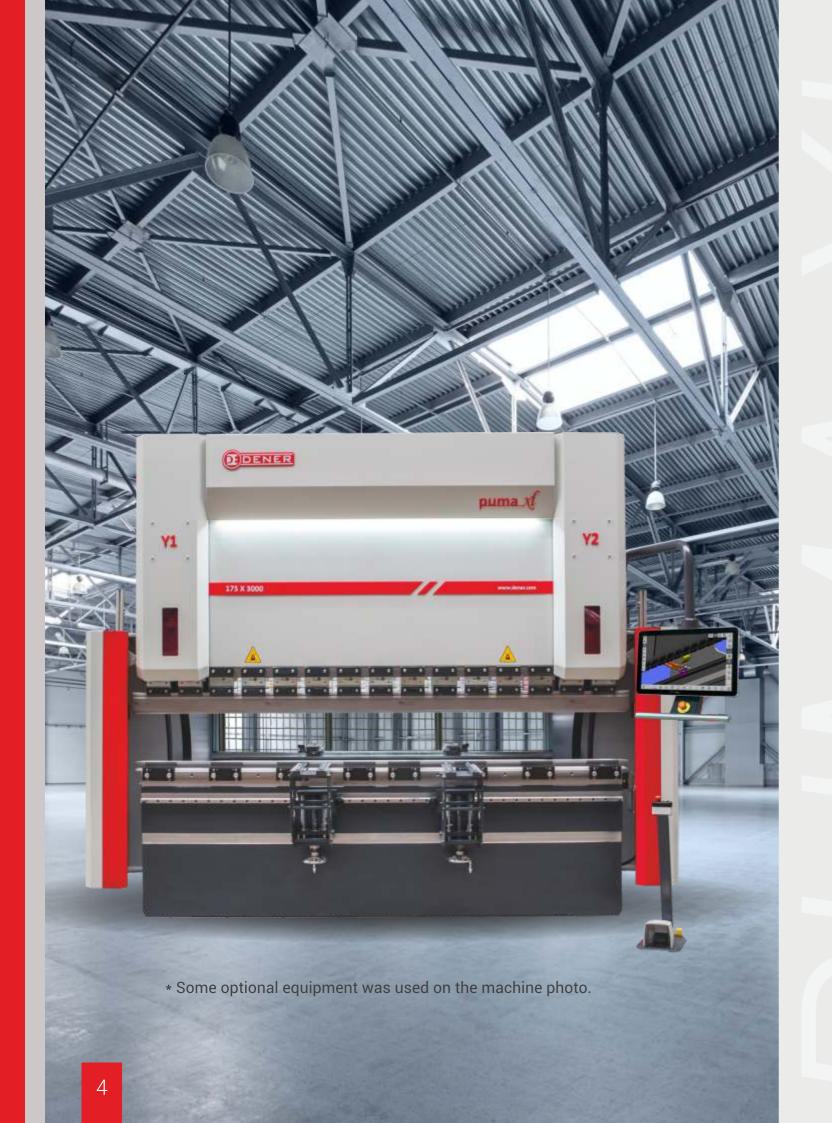
PUMA XL

- Standard Equipment
- Control Units
- Optional Equipment
- Back Gauges
- **ADVANTAGES**
- PUMA XL TECHNICIAL SPECIFICATIONS

SMART XL

- Standard Equipment Controllers
- Optional Equipment
- SMART XL TECHNICIAL SPECIFICATIONS
- SPECIAL BENDING SOLUTIONS
- TOOLS CLAMPING SYSTEMS



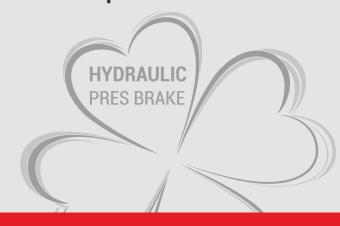




DENER PUMA XL CNC Press Brakes are born with the goal to be flexible, reliable, and advanced bending machines; Dener utilizes the most stringent manufacturing technologies during production to manufacture the highest quality machines. Based on proven design, Dener has increased working speeds, stroke,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

DENER PUMA XL is a synchronized hydraulic press brake with a 3D Grahical 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.

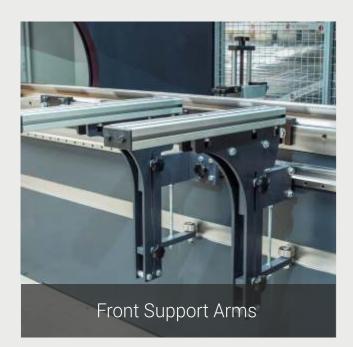
Forming Challenges Simplified Solution.



STANDARD EQUIPMENT











CONTROLLERS

ESA S 675 W CONTROLLER

- 3D and 2D graphics touch screen programming mode
- 3D and 2D imaging in simulation and production
- 21" high resolution colour touch screen
- Full-featured Windows application
- ESA offline software
- USB flash memory drive
- Hard disk for more then 1.000.000 part programs
- 2D and 3D automatic bending sequence calculation
- Graphical product and tool selection



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



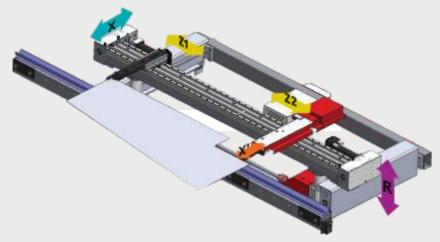








BACK GAUGES



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 ± 0.03mm

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)







X, R, Z1, Z2



X1, X2, R, Z1, Z2



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



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







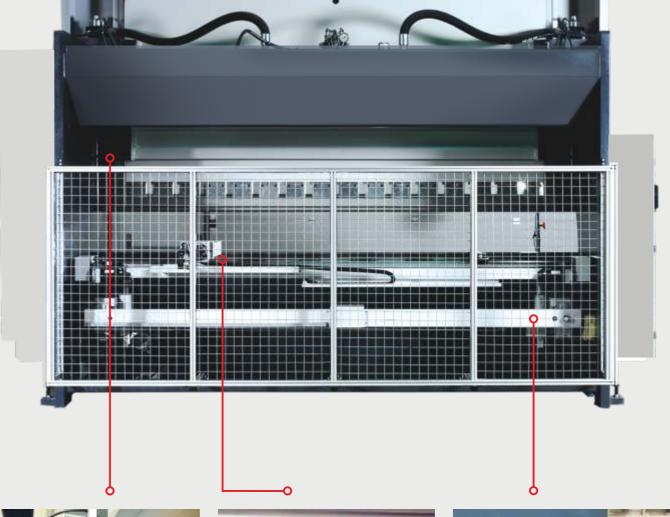
Deeper Throat Depth



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

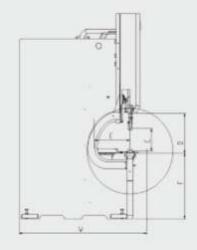


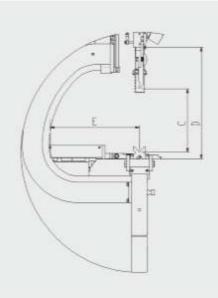
Linear Guided Stronger Back Gauge X Movement

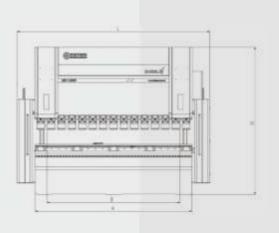


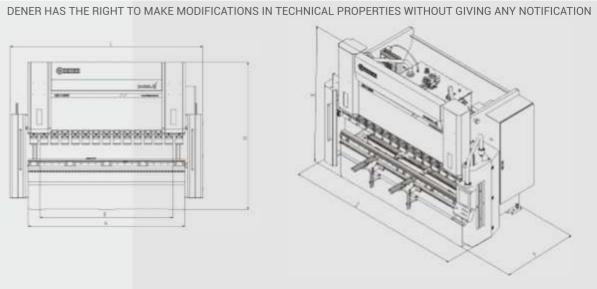


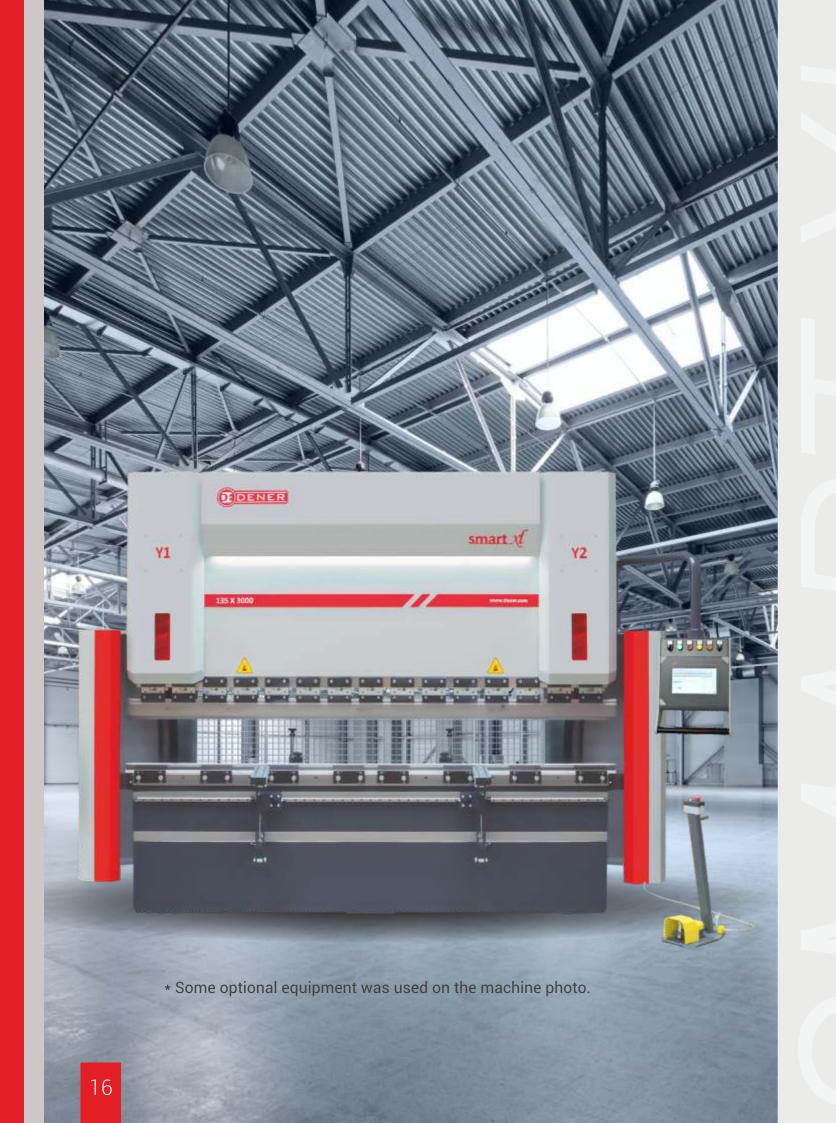
PUMA XL	1540	2060	2660	26100	30100	30135	30175	30220	30320	36175	36220	36320	40175	40220	40320	40400	40600	60220	60320	60400	60600
Bending Length (mm) (A)	1550	2050	2600	2600	3020	3020	3020	3020	3020	3650	3650	3650	4050	4050	4050	4050	4050	6050	6050	6050	6050
Bending Capacity (ton)	40	60	60	100	100	135	175	220	320	175	220	320	175	220	320	400	600	220	320	400	600
Approaching Speed (mm/sn)	180	180	180	160	160	160	150	140	140	150	140	140	150	140	140	80	60	100	80	60	60
Bending Speed (mm/sn)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8
Returning Speed (mm/sn)	160	160	150	150	150	140	130	130	120	130	130	120	130	130	120	80	60	100	80	60	60
Stroke (C)	220	220	220	300	300	320	350	350	400	350	350	400	350	350	400	400	455	350	350	400	455
Daylight (D)	410	410	410	530	530	550	600	600	650	600	600	650	600	600	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	450	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	5100	5100	5100	5100
Length (L)	2445	2845	3345	3320	3725	3745	3745	3745	3785	4290	4290	4330	4740	4740	4780	5000	5000	6775	6815	6855	7100
Width (W)	2200	2200	1930	2260	2260	2250	2290	2290	2290	2290	2290	2290	2290	2290	2290	2770	4050	2300	2280	2780	3275
Width Without Front Supports (Y)	1330	1335	1330	1695	1670	1710	1710	1710	1740	1710	1710	1740	1710	1710	1725	2310	2130	1760	1760	2070	3190
Height (H)	2390	2390	2390	2400	2770	2825	3025	3050	3100	3025	3050	3100	3025	3050	3100	3555	3755	3000	3100	3605	3755
Table Height (F)	900	900	900	900	900	900	900	920	920	920	920	920	920	920	920	1095	1095	920	920	1095	1000
Pit Depth	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	7,5	11	11	15	22	22	30	22	22	30	22	22	30	45	45	22	30	45	45
Oil Tank (It)	100	100	100	190	190	190	300	300	400	300	300	400	300	300	400	400	600	300	400	400	600
Approximate Weight	4250	4800	5500	7900	8550	9500	11500	11700	14450	13100	13200	15650	14150	14250	16750	26000	40500	18750	23100	31400	55000













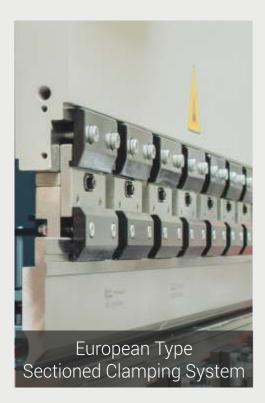
The DENER SMART XL CNC is an economical, strong, fast and accurate new model. The SMART XL Press brake targets small and medium size sheet metal working companies. The most important features of DENER SMART XL are;

- Faster working speeds
- Greater bending power
- Deeper throat depth
- Bigger stroke and day light

The DENER SMART XL 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. The 2D off line programming feature of the ESA 630 control gives possibility to complete bending programs on the Office PC and transfer them to the machine by LAN or USB. This feature is popular for end users not interested in more expensive off line CAD/CAM bend softwares. The SMART XL 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.

STANDARD EQUIPMENT









BACK GAUGES









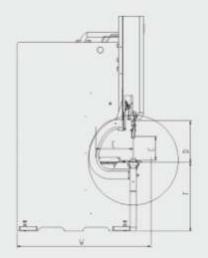


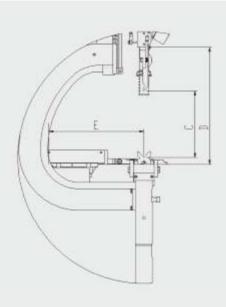
OPTIONAL EQUIPMEN

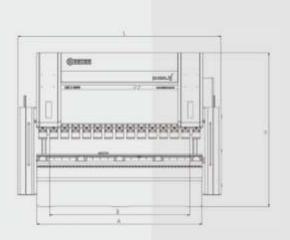


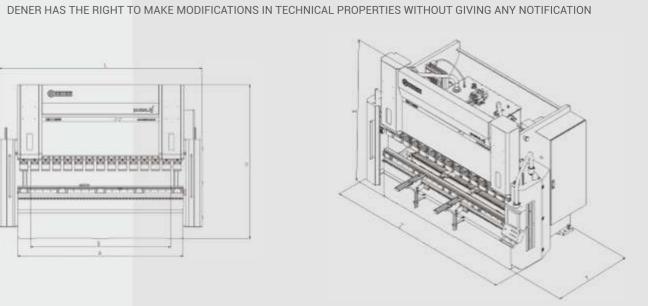
SMARTXL

SMART XL	1540	2060	2660	26100	30100	30135	30175	30220	30320	36175	36220	36320	40175	40220	40320	40400	40600	60220	60320	60400	60600
Bending Length (mm) (A)	1550	2050	2600	2600	3020	3020	3020	3020	3020	3650	3650	3650	4050	4050	4050	4050	4050	6050	6050	6050	6050
Bending Capacity (ton)	40	60	60	100	100	135	175	220	320	175	220	320	175	220	320	400	600	220	320	400	600
Approaching Speed (mm/sn)	180	180	180	160	160	160	150	140	140	150	140	140	150	140	140	80	60	100	80	60	60
Bending Speed (mm/sn)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8
Returning Speed (mm/sn)	160	160	160	150	150	140	130	130	120	130	130	120	130	130	120	80	60	100	80	60	60
Stroke (C)	220	220	220	300	300	320	350	350	400	350	350	400	350	350	400	400	455	350	350	400	455
Daylight (D)	410	410	410	530	530	550	600	600	650	600	600	650	600	600	650	650	650	600	650	650	680
Throat Depth (E)	400	400	400	450	450	450	450	450	450	450	450	450	450	450	450	600	600	450	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	5100	5100	5100	5100
Length (L)	2445	2845	3345	3320	3725	3745	3745	3745	3785	4290	4290	4330	4740	4740	4780	5000	5000	6775	6815	6855	7100
Width (W)	2200	2200	1930	2300	2550	2300	2550	2550	2590	2500	2500	2550	2500	2500	2500	2500	2500	2650	2500	2500	2660
Width Without Front Supports (Y)	1330	1335	1330	1695	1670	1710	1710	1710	1740	1710	1710	1740	1710	1710	1725	2310	3130	1760	1760	2270	3190
Height (H)	2390	2390	2390	2400	2770	2825	3025	3050	3100	3025	3050	3100	3025	3050	3100	3555	3755	3000	3100	3605	3755
Table Height (F)	900	900	900	900	900	900	920	920	920	920	920	920	920	920	920	1095	1095	920	920	1095	1000
Pit Depth	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	7,5	11	11	15	22	22	30	22	22	30	22	22	30	45	45	22	30	45	45
Oil Tank (It)	100	100	100	190	190	190	300	300	400	300	300	400	300	300	400	400	600	300	400	400	600
Approximate Weight	4150	4700	5400	7800	8400	9150	11000	11100	14250	12200	12350	15450	13100	13200	17650	24500	40500	18000	22850	31200	50000









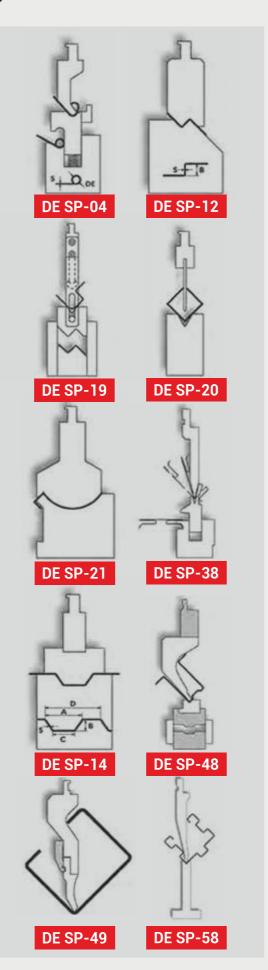


SPECIAL BENDING SOLUTIONS











SAFETY







OPTIONAL TOOL CLAMPING SYSTEMS







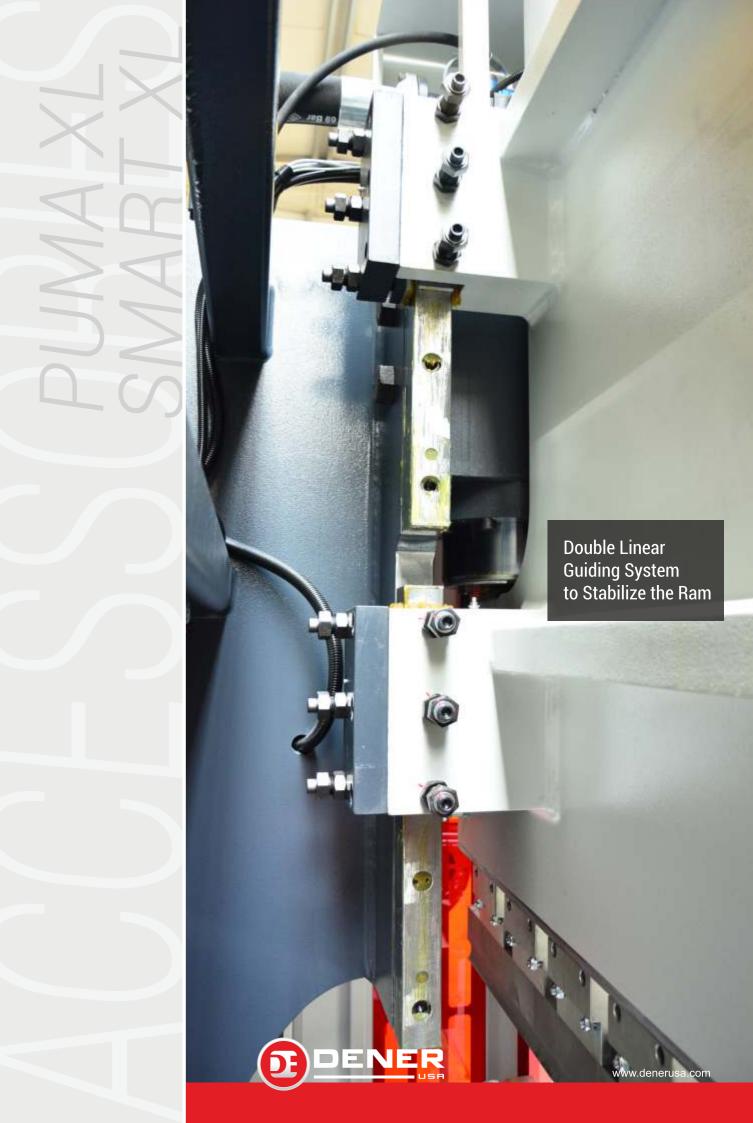












OPTIONAL EQUIPMENT





CNC Controlled Sheet Folloers (Puma XL only)











Special Projects





"EXCEED YOUR EXPECTATIONS"





"EXCEED YOUR EXPECTATIONS