PRESS BRAKES

ADR
ADS
ADSERVO
FBS

DURMA

TODAY TOMORROW FOREVER


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DURMA

Head Quarter & Ataevler

Durmazlar has aimed continous development since 1956

Owes one of the world's most contemporary production plants in the production technology business. 3 different plants oriented to different product families, 1000 dedicated employees and 150.000 m2 footprint.

In order to offer solution according to clients' needs and enriching the quantity and quality of its own patent rights; long experienced Engineering Department transformed to Durma Research & Develepment Center has opened in the year 2010. Designed and engineered with modern technics; its products are equipped with proven quality components to precisely fulfill your requirements. We serve " accuracy, speed, flexibility, durability, reliability and advanced technology" with high performance/price ratio. Worldwide Durma distributors and technical support network assures perfect support to our clients.

With its 57 years of experience, its product quality, innovative solutions Durma gives importance and cares you with proactive approach. We thank all our clients to hold us at the top segment of the world brands.

Laser Factory

Başköy Factory

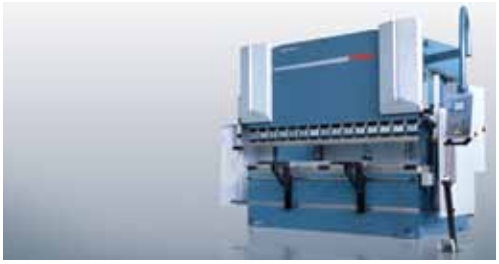
Durma Press Brakes

Durma press brakes guarantee precision, low maintenance costs, low operating cost, and longterm reliability . These features along with large investments in moldern manufacturing equipment have made Durma the largest volume press brake producer in the world.

All Durma press brakes are produced with modern design technology and incorporate rigid stress relieved frames to increase your productivity with accurate part production. Demanding applications are easily achieved.

A broad offering of sizes and features satisfy nearly all economical requirements.

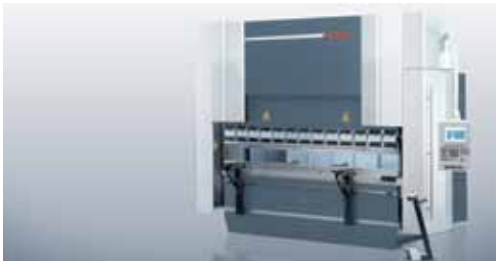
AD-R Series



Real Innovation

Value oriented press brakes with large strokes, daylights, and gaps to allow cost effective production of simple to complex large shaped that require large dimensions for handling and removal. A simple to use control reduces the required operator level.

AD-S Series



Superior

Unlimited possibilities and features providing faster and quicker setups and part production. Large daylight opening and working areas
Outboard mounted long ram guides provide stabiity while allowing full length between the frame acute angle bending
Stable and fast ac servo motor driven backgauge system
3D Graphical Controller and Offline Software
Automatic table crowning
Automatic sheet following systems

AD SERVO Series

Eco-friendly press brake for clean energy saving operations.
Lower cost, Energy Efficient, Accurate ,Speed and Quiet .

FBS (Flexible Bending Solutions(

Durma's advanced technology in the bending of large format parts has; for the automated and reduced labor bending of large sheet and plate parts. diversifed uses in the different industries while avoiding long, expensive welding operations which even takes the risk of material stability.
Reduced material handling

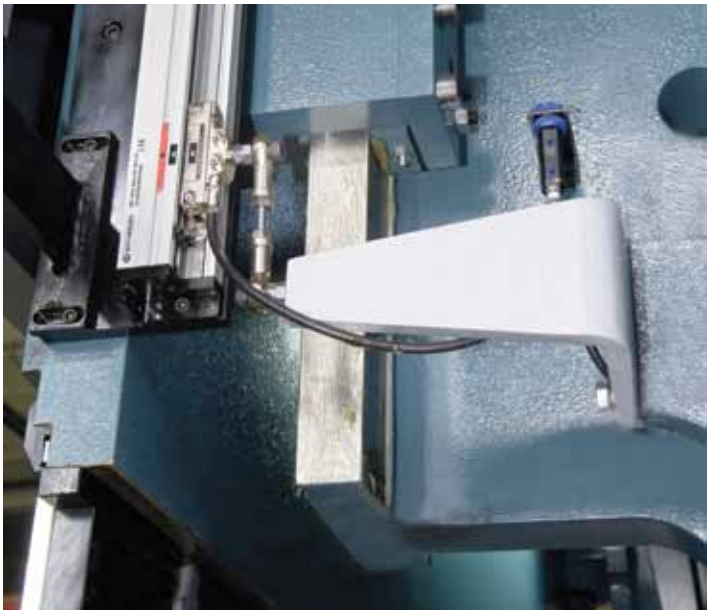
- *Compensation for high spring-back sheets*
- *Reduced setup times by automated loading and unloading*
- *Increasesed employee saftey*
- *On higher tonnage press brakes Durma utililizes and unique "box construction" which provides the most stable machine frame in the industry.*

Durma provides the latest technology in "large format" bending and automation.

AD-R SERIES

- *Real Innovation*
- *Combination of Performance, Value and Simplicity*
- *Best performance/price ratio CNC press brake of the world*
- *Easy to use CNC controller*
- *Specially designed control unit and software serve you simplicity and lean operations even for inexperienced operators.*
- *Perfect bending results , easy input the angle and operate the machine*
- *Introduction to Durma Press Brakes*
- *Robust construction,Same solid foundation of all Durma Press Brakes*
- *Working with AD-R's all range easy and comfortable in all respects.Large daylight opening and large space enables the machine to be put to optimum use along its entire working length.*
- *Designed and manufactured to meet the challange of " Cost down" manufacturing culture*
- *Provides standardly 3 axis Y1 Y2 X and R manually adjustable.*

FEATURES

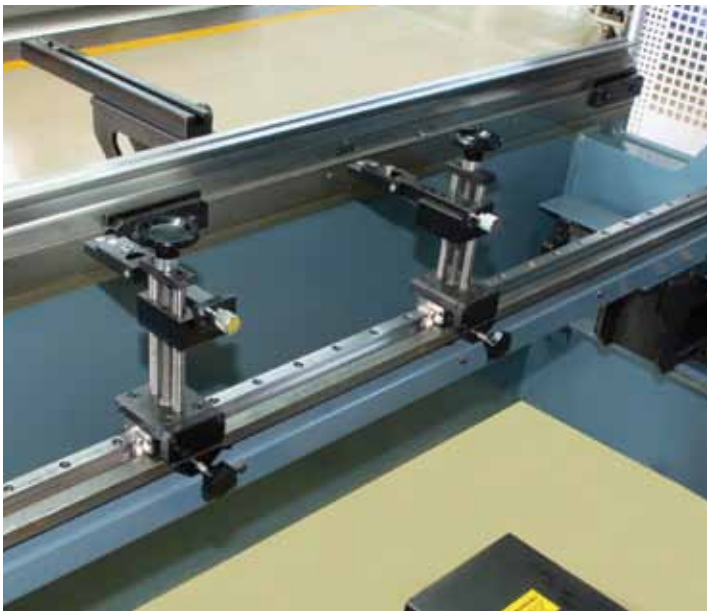


Top beam guiding

Double guides are long and accurate for easy sliding of top beam

High Stroke - Daylight - Throat (High working space

AD-R machines offers wide spaces for ease of operation also reduces cycle times.



Back Gauge

X axis motorized CNC controlled
R axis manually height adjustable finger block

Fingers` depth is calculated by CNC controller and executes X axis.Retraction is also a standard feature to acquire accurate parts. Back gauge fingers are easily adjusted on linear guides by ball integrated motion system.

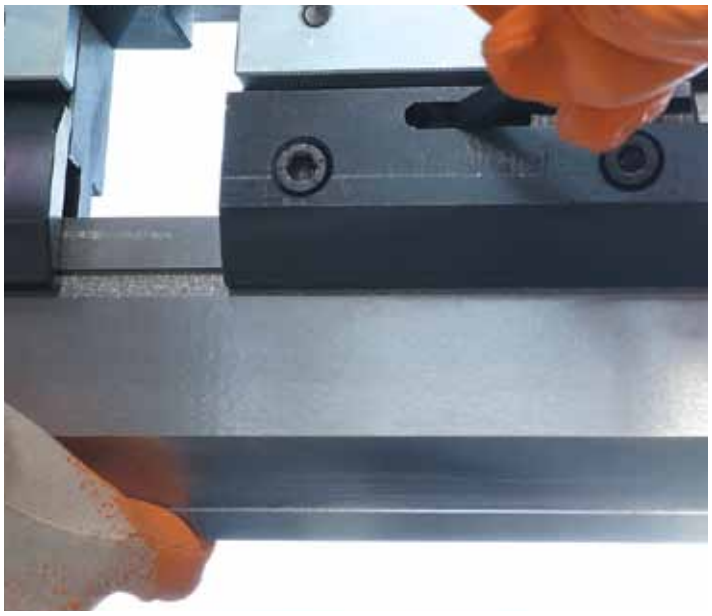
Sliding Front Arms

Quickset support arms are mounted on a linear quide way and ball bearing system that allows "finger tip" lateral adjustment of the front support arms. Vertically adjustment is also easily achieved.

Tool Holders

Euro style Multi-V

Euro style tool holders offers precise tool setup by their ground surfaces.



Quick Release Clamping

Safety Systems for CE Countries

AD-R can be fully comply with European CE regulations.
System respects to the latest CE regulations by its laser protection, guards and hydraulics and electronics safety protects operators and the machine itself.

CNC Control Units

Durma CNC Easy Bend

More effective and basic control than conventional press brakes
5 minutes training time
More productive than conventional press brakes
More profitible than conventional press brakes
Less maintainence than conventional press brakes
Simplified screen with less keys
Easy to operate
No program required
Easy to follow bending steps
Punch and Die in memory
Correction possibility
USB interface
Easy upgrade possibility to programmable CNC Advantage control unit

Durma CNC Advantage

2D graphic display (7,4") & work piece in programming page
Easy bend function
Automatic bending sequence
Part calculation
Safety guard PLC communication
Offline software (programming and edit features)
Motorized crowning
Diagnose of I/O
Tandem working
USB interface for backup and restore programs/tools/parameters
Maintainence- free
85 programs (up to 12 steps each program); 12x85 = 1020 step
32 Punches & Dies
Programs, Punches, Dies and Parameters can be copied using USB Disk or Off-Line software.
Wide language options
Easy upgrade possibility to color graphic control unit

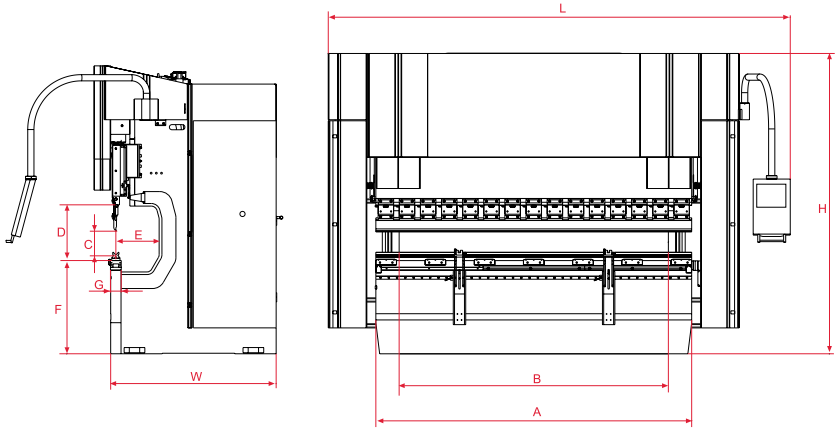
DNC 880s - CNC 2D

The DNC 880S numerical control is intended specifically for sheet-metal bending.
According to the software installed, it will be used on synchronized or conventional press brakes with mechanical or hydraulic end stops.
The Dnc 880S is a high performance, competitively priced product in a compact and slim design.
10" TFT color screen
Graphic 2D display and multi-simulation capability.
Windows XPe for multitasking and file management .
Connection to external devices through USB port for software updating and data backup.
Over 20 languages available.

AD-R Series		Unit	1260	2060	25100	30100	30135	30175
Bending force		ton	60	60	100	100	135	175
Bending length	(A)	mm	1250	2050	2550	3050	3050	3050
Distance between columns	(B)	mm	1050	1700	2200	2600	2600	2600
Y Rapid speed		mm/sec	200	200	180	180	160	120
Y Working speed		mm/sec	10	10	10	10	10	10
Y Return speed		mm/sec	110	110	120	120	120	100
Daylight	(D)	mm	400	400	530	530	530	530
Table width	(G)	mm	104	104	104	104	104	104
Table height	(F)	mm	900	900	900	900	900	900
Stroke 160	(C)	mm	s	s	x	x	x	x
Stroke 265	(C)	mm	o	o	s	s	s	s
Stroke 365	(C)	mm	x	x	x	x	x	x
Throat depth	(E)	mm	350	350	410	410	410	410
Support arms		amount	2	2	2	2	2	2
Back gauge finger blocks		amount	2	2	2	2	2	2
Speed of travel in X-axis		mm/sec	250	250	250	250	250	250
Travel in X-axis		mm	750	650	650	650	650	650
Motor power		kw	7.5	7.5	11	11	15	18.5
Oiltank capacity		lt	100	100	100	100	150	250
Length	(L)	mm	2300	3200	3800	4200	4200	4250
Width	(W)	mm	1200	1200	1670	1670	1680	1700
Height	(H)	mm	2350	2350	2750	2750	2750	2750
Weight approx		kg	3100	3550	8650	9250	10250	11250

STANDARD EQUIPMENTS

- Y1, Y2, X - 3 Axes
- Control Unit - CNC Easy
- Back gauge - motorised & linear guide & ball bearing system
- Back gauge fingers - height adjustable
- European Clamping system
- Sliding sheet support Arms with T-Canal and Tilting stop
- CNC controlled motorized Crowning (only on 6meters)
- Special designed - worldclass hydraulics blocks & valves
- Worldclass electronics system



s: Standart
o: Optional
x: Not Available

30220	30320	37175	37220	40175	40220	40320	40400	60220	60320	60400
220	320	175	220	175	220	320	400	220	320	400
3050	3050	3700	3700	4050	4050	4050	4050	6050	6050	6050
2600	2600	3100	3100	3600	3600	3600	3400	5100	5100	5100
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10	10	10	10	10	10	10	8	10	10	8
100	100	100	100	100	100	100	80	100	100	80
530	630	530	530	530	530	630	630	530	630	630
104	154	104	104	104	104	154	154	154	154	154
900	900	900	900	900	900	900	1040	1100	1100	1220
x	x	x	x	x	x	x	x	x	x	x
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x	s	x	x	x	x	s	s	x	s	s
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250	250	250	250	250	250	250	250	250	250	250
650	650	650	650	650	650	650	750	750	750	750
22	37	18.5	22	18.5	22	37	37	22	37	37
250	250	250	250	250	250	250	450	250	250	500
4250	4300	4950	4950	5250	5250	5300	5750	7500	7500	7500
1770	1820	1700	1770	1700	1770	1910	2110	1770	1910	2110
2900	3230	2900	2900	2750	2900	3230	3540	3250	3450	3710
12250	17250	17250	14100	12850	14750	20750	26750	20590	28250	35750

OPTIONAL EQUIPMENTS
Control Unit - CNC Advantage Series - 2D Graphic & Offline Software
Control Unit - CNC DU 6000
Control Unit - CNC DNC 880S - 2D Colour Graphic
Control Unit - CNC DELEM DA 56 - 2D Colour Graphic
CE with Manual F.AKAS II M -FPSC-B-C + Safety covers with switch
CE with SICK C 4000- only for tandem + steel protection covers
DFS1 Laser Finger protection (for Bottom Beam-Non CE)
Top tool European (One of them is segmented)
Bottom tool European (One of them is segmented)
Bottom tool Durma
Quick Release Clamping
Manual Crowning
CNC controlled motorized Crowning
Back gauge 1000 mm - Back protection with Light barrier
Oil Coolant
Additional Finger blocks & Sliding front arms
Overseas special packaging
For more options please contact us.

AD-S SERIES

- *High end solution for bending*
- *Represent the latest technology in press brake automation,*
- *Well concieved design*
- *Ultimate productivity when performing precision work*
- *Large daylight opening and working space*
- *The application of highly dynamic hydraulics servo valves*
- *Long double guides in combination with well designed cylinder construction make a large an flexible beam opening possible.*
- *Stable and fast AC Servo motor driven backgauge system*
- *3D Graphical Controller & Offline Software*
- *CNC Controlled crowning*
- *Ensures maximum angle accuracy thus satisfying even the highest demands*
- *Provides standardly 4 axis Y1 Y2 X and R*

FEATURES

Syncro Y1Y2 Axes & CNC Control Motorized Crowning

Independent left and right axes (Y1Y2) controlled by electronics servo valves & electronics linear position controllers.

CNC controlled motorized crowning system homogenizes bending forces every points of the bending parts to acquire straights bents. The need for shimming is eliminated.

Sliding Front Arms

Quickset support arms are mounted on a linear quide way and ball bearing system that allows "finger tip" lateral adjustment of the front support arms. Vertically adjustment is also easily achieved.

X-R Back Gauge

Fingers` depth and height is calculated by CNC controller and executes high speed servo motors produced by Siemens.
Retraction is also a standard feature to acquire accurate parts.
Back gauge fingers are easily adjusted on linear guides by ball integrated motion system.

CNC Control Units

ModEva 10S 3D & Pc 1200 3D S W

ModEva is a range of numerical controls adapted to the actual market demand. Therefore the complete ModEva serie runs now under Windows ModEva can provide a calculating capacity and performance adapted to simple machinery with a 3D graphic display, it can also be transformed into a real workstation with a very high-power CPU and maximum graphic capabilities thus making Cybelec ® adapted numerical control available to the most sophisticated machinery.

3D / 10,4" color screen
TFT type screen
128 Mb Ram
128 DM Main Memory
Easy Cursor
Automatic Bend Sequences
PC Off line 3D Software

All ModEvaTM consoles are equipped with the new Quick CursorTM device. One of its main features is the possibilty of completely programming a part on a single page. When producing more complex parts, the graphic sequences generated by a CAD/CAM system can easily be viewed on the user console.

All ModEva come with PC 1200 off line bending software. PC 1200 program allows you to prepare your programs, calculate offers and check feasibility of the parts in your Office on a PC. No time waisted on the machine.

ModEva RA

3D / 15" color screen
TFT type screen
128 Mb 256/512 Ram
20 GB Main Memory
Easy Cursor
Automatic Bend Sequences
PC Off line 3D Software

Delem DA 66T

The DA-66T is the Delem modular press brake controller. All graphics, including product and machine as well as tool setup are also available in 3D. This to visualize the machine situation as accurate as possible. The DA-66W can program 2D products, accurately showing and calculating including sheet thickness and radii. During programming automatically generation of bend sequencers can be used as well as manual selection. The operator can overrule to his own choice. With the DA-66W also special tools for e.g. hemming bends can be programmed. The DA-66W helps the user in programming these bends (with their specific parameters) and also shows the prebend as well as the hemming operation during production.

Delem DA 69T

The DA-69T is 1:1 compatible with the DA-66W and offers next to 2D products also 3D products. 3D products can be programmed with accurate sheet thickness and desired radii. Automatical bend sequence calculation can help finding the optimum bendsequence even from very complex products. Multiple products can programmed in 3D, 2D as well as numerical. Storage is managed on the CF-harddrive. The controllers Windows operating system enabled easy integration in factory networks and due to the real-time capable OS, also instant switch of is possible. The controller will start-up time after time, without annoying booting messages. The DA-66W and DA-69W can also be equipped with an optional touch screen.

High Stroke | Daylight | Throat = High working space

AD-S machines offers wide spaces for ease of operation also reduces cycle times.

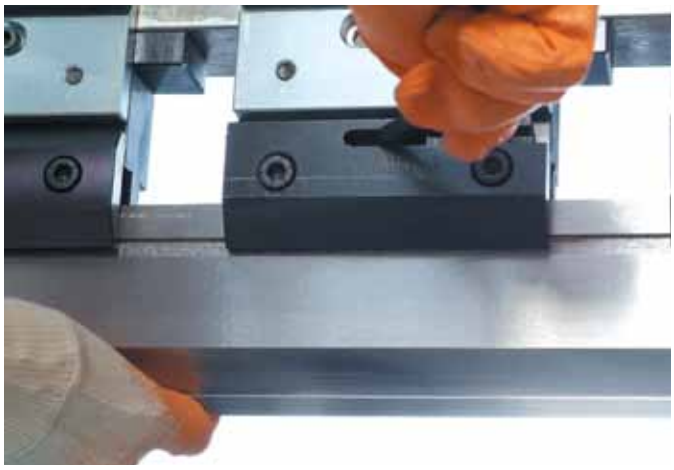
Safety Systems for CE Countries

AD-S can be fully comply with European CE regulations. System respects to the latest CE regulations by its laser protection, guards and hydraulics and electronics safety protects operators and the machine itself.

Tool Holders

Eurostyle Clamping

Eurostyle tool holders offers precise tool setup by their ground surfaces.



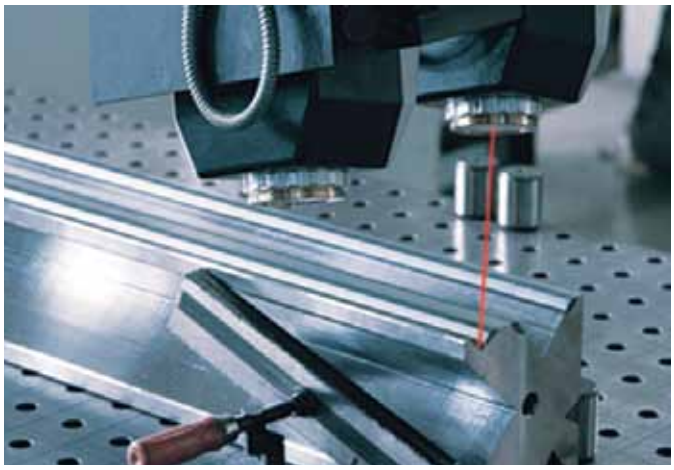
Quick Release Clamping

Hydraulic Euro Clamping

Hydraulic New Standard Clamping

Durma Tool Clamping

Durma Hydraulic Clamping



Hardening Tools

Back Gauge Options

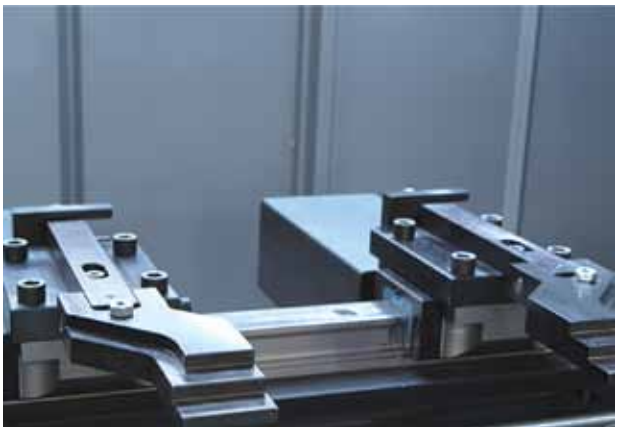
X, R, Z1 Z2 4 Axes

X1, X2, R, Z1, Z2 5 Axes

X1, X2, R1, R2, Z1, Z2 6 Axes

Delta X

Back Gauge Fingers



3 Step Finger Blocks

Special Fingers

Bottom Tool Positioning Systems

Pneumatic Positioning System

Motorized Positioning System

Laser Angle Measurement System

Manufacturing sheet metal parts with properly bending angles that are kept constant all times often meets a problem during the actual production process: different parameters in material thickness and stresses. The best solution is laser based bending angle measuring device.

- *Any bending angle can be measured.*
- *Very compact, everything in the appliance.*
- *Light influence, light or dark material surfaces play practically no part at all.*

STANDARD EQUIPMENTS

Y1, Y2, X, R - 4-Axes
"Control Unit - CNC Cybelec ModEva 10S 3D with PC 1200 3D SW
or Delem 66W"
CNC controlled motorized Crowning
CNC controlled Hyd-Mech Crowning (Standard ≥ 800 t)
European Clamping system (Standard ≤ 400 t)
DURMA Clamping system (Standard ≥ 600 t)
Sliding Front Arms with full length linear guide
Back gauge , Servo-motorised & Linear guide & Ball bearing system (X- R)
Sliding sheet support Arms with T-Canal and Tilting stop
Protection covers
Special designed - worldclass hydraulics blocks & valves
Worldclass electronics system

OPTIONAL EQUIPMENTS

CE with Manual F.AKAS II M -FPSC-B-C (SAFETY PLC)
CE with FIESSLER AKAS-LC II AKAS-3 M Motorised + FPSC (SAFETY PLC)
CE with SICK C 4000- only for tandem
DFS1 Laser Finger protection (for Bottom Beam-Non CE)

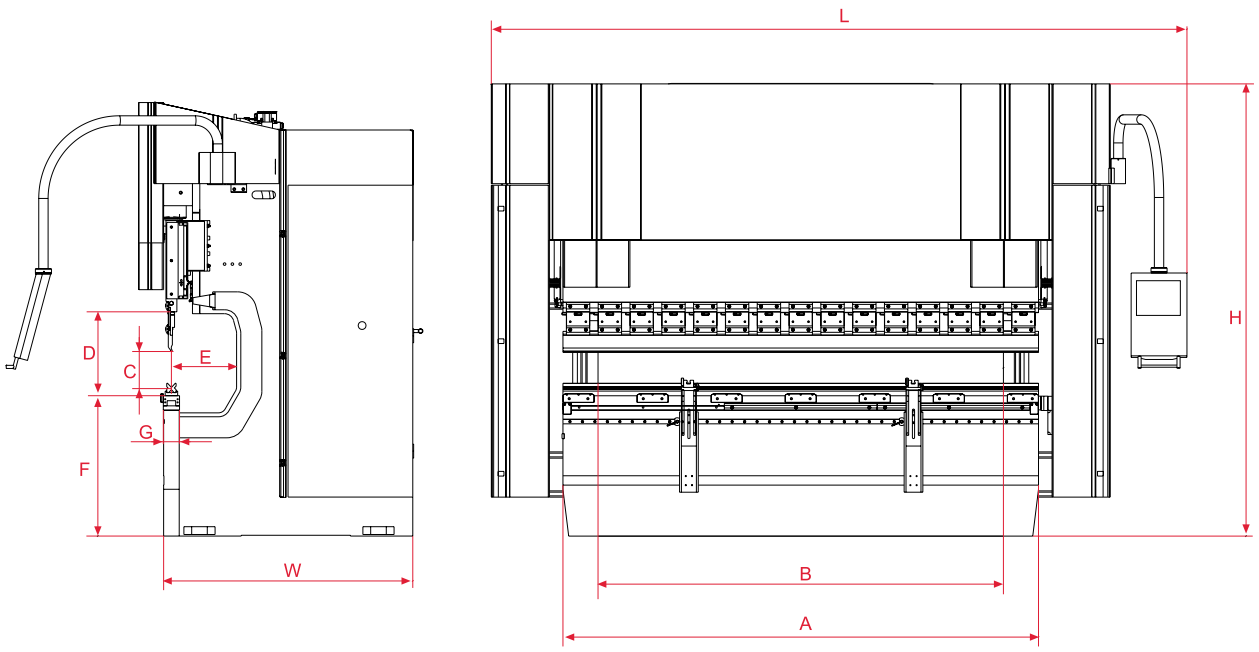
Z1, Z2 Axes
X1, X2 Axes
R1, R2 Axes
R1 R2 axes on the finger blocks
Delta X axis ,+250mm stroke
X Axis =1000 mm - Back protection with Light barrier
AP3-AP4 Sheet follower with sliding guide- Motorised height adj

Quick Release Clamping
Durma Hydraulic or Mechanical Clamping
Wila Hydraulic or Mechanical Clamping
Tool options (Durma, European, Wila) in tool catalog
Bottom tool seperation system
Crowning Vertical

For other options please contact us.

AD-S Series		Unit	1260	2060	25100	30100	30135	30175	30220	30320	37175	37220	40175	40220
Bending force		ton	60	60	100	100	135	175	220	320	175	220	175	220
Bending length	(A)	mm	1250	2050	2550	3050	3050	3050	3050	3050	3700	3700	4050	4050
Distance between columns	(B)	mm	1050	1700	2200	2600	2600	2600	2600	2600	3100	3100	3600	3600
Y rapid speed		mm/sec	200	200	180	180	160	120	120	100	120	120	120	120
Y working speed		mm/sec	10	10	10	10	10	10	10	10	10	10	10	10
Y return speed		mm/sec	110	110	120	120	120	100	100	100	100	100	100	100
Crowning		-	Mot.	Mot.	Mot.	Mot.	Mot.	Mot.	Mot.	Mot.	Mot.	Mot.	Mot.	Mot.
Daylight	(D)	mm	400	400	530	530	530	530	530	630	530	530	530	530
Table width	(G)	mm	104	104	104	104	104	104	154	104	104	104	104	104
Table height	(F)	mm	900	900	900	900	900	900	900	900	900	900	900	900
Depth of pit	(F1)	mm	-	-	-	-	-	-	-	-	-	-	-	-
Stroke 160	(C)	mm	s	s	x	x	x	x	x	x	x	x	x	x
Stroke 265	(C)	mm	o	o	s	s	s	s	s	s	s	s	s	s
Stroke 365	(C)	mm	x	x	x	x	x	x	x	x	x	x	x	x
Stroke 400	(C)	mm	x	x	x	x	x	x	x	x	x	x	x	x
Stroke 500	(C)	mm	x	x	x	x	x	x	x	x	x	x	x	x
Stroke 600	(C)	mm	x	x	x	x	x	x	x	x	x	x	x	x
Throat depth	(E)	mm	350	350	410	410	410	410	410	410	410	410	410	410
Support arms		amount	2	2	2	2	2	2	2	2	2	2	2	2
Back gauge finger blocks		amount	2	2	2	2	2	2	2	2	2	2	2	2
Speed of travel in X-axis		mm/sec	500	500	500	500	500	500	500	500	500	500	500	500
Travel in X-axis		mm	750	650	650	650	650	650	650	650	650	650	650	650
Speed of R-axis(max.)		mm/sec	350	350	350	350	350	350	350	350	350	350	350	350
Travel in R-axis		mm	250	250	250	250	250	250	250	250	250	250	250	250
Motor power		kw	7.5	7.5	11	11	15	18.5	22	37	18.5	22	18.5	22
Oiltank capacity		lt	100	100	100	100	150	250	250	250	250	250	250	250
Length	(L)	mm	2300	3200	3800	4200	4200	4250	4250	4300	4950	4950	5250	5250
Width	(W)	mm	1200	1200	1670	1670	1680	1700	1770	1820	1700	1770	1700	1770
Height	(H)	mm	2350	2350	2750	2750	2750	2750	2900	3230	2900	2900	2750	2900
Weight approx		kg	3100	3550	8900	9500	10500	11500	12500	17500	13000	14360	13100t	15000

s: Standart
o: Optiona
x: Not Available



40320	40400	40600	60220	60320	60400	60600	60800	70800	701000	701250	80800	801000	801250	801600	802000
320	400	600	220	320	400	600	800	800	1000	1250	800	1000	1250	1600	2000
4050	4050	4050	6050	6050	6050	6050	6050	7050	7050	7050	8050	8050	8050	8100	8100
3600	3400	3100	5100	5100	5100	5100	5100	5100	5100	5100	6400	6400	6400	6400	6400
100	100	80	80	100	100	80	70	80	70	70	80	70	70	70	70
10	8	7	10	10	8	7	6	7	5	7	7	5	7	6	6
100	80	80	100	100	80	80	80	70	60	70	70	60	70	70	60
Mot.	Mot.	Mot.	Mot.	Mot.	Mot.	Mot.	Hyd-Mech	Hyd-Mech	Hyd-Mech	Hyd-Mech	Hyd-Mech	Hyd-Mech	Hyd-Mech	Hyd-Mech	Hyd-Mech
630	630	700	530	630	630	700	700	700	800	800	700	800	800	1000	1000
154	300	300	154	154	300	300	400	400	400	400	400	400	500	500	700
900	1040	990	1100	1100	1220	990	800	800	800	900	800	800	900	900	950
-	-	1200	-	-	-	1200	1300	1300	1500	1700	1300	1600	1800	1800	2100
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	x	x	s	x	x	x	x	x	x	x	x	x	x	x	x
s	s	s	o	s	s	s	x	x	x	x	x	x	x	x	x
x	o	o	o	o	o	o	s	s	x	x	s	x	x	s	x
x	o	o	o	o	o	o	o	o	s	x	o	s	s	o	x
x	o	o	o	o	o	o	o	o	o	s	o	o	o	o	s
410	510	510	410	410	510	510	610	610	610	610	610	610	610	610	750
2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4
2	2	2	4	4	4	4	4	4	4	4	6	6	6	6	6
500	350	350	350	350	350	350	350	350	300	300	300	300	300	300	300
650	750	750	750	750	750	750	750	750	1000	1000	750	1000	1000	1000	1250
350	300	300	300	300	300	300	300	300	250	250	300	250	250	250	250
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
37	37	45	22	37	37	45	55	55	55	90	55	55	90	90	110
250	450	500	250	250	500	500	750	750	1000	1250	750	1000	1250	1250	2000
5300	5750	5650	7500	7500	7500	7600	8050	8700	8800	8800	9800	10000	10000	10100	10500
1910	2110	3250	1770	1910	2110	2650	3200	3200	3250	3250	3200	3250	3250	3500	4350
3230	3540	3825	3250	3450	3710	3850	4250	4250	5900	6400	4250	5900	6400	7000	8100
21000	27000	40500	20840	28500	36000	54000	72000	79500	95500	110000	85000	102000	135000	163000	249000

For other sizes please contact us.

AD-SERVO

- *Increase your competitive forces by %62 lower power consumption*
- *Lower cost per part by ecologic technology*
- *Quiet, Energy Efficient and Accurate*
- *Ram movement is powered by AC Servo motors driving hydraulic oil in line with Variable Speed Pump.*

  New technology allows :
- *Silent bends,*

  Noise level reduced to 63 dbA from 76 dbA
- *Energy save,*

  62% at stand-by

  44% during the press cycle

  60 % in 1 hour with 15 press cycles
- *Supports your production cost efficiency and increases your competitive forces.*
- *Small hydraulic oil tank for Clean environment & Cost reduction*

  Thanks to the new technology reduce hydraulic tank from 200 lt to 2x40 lt
- *Speeds & Accuracy & Syncronisation*

  Beam speeds to 200mm/sec
- *5,6 times better Synchronisation in phase of „High Speed"*

AD-Servo		Unit	25100	30100	30135
Bending force		ton	100	100	135
Bending length	(A)	mm	2550	3050	3050
Distance between columns	(B)	mm	2200	2600	2600
Y rapid speed		mm/sec	200	200	200
Y working speed		mm/sec	10	10	10
Y return speed		mm/sec	200	200	180
Crowning		-	Motorised	Motorized	Motorized
Daylight	(D)	mm	530	530	530
Table width	(G)	mm	104	104	104
Table height	(F)	mm	900	900	900
Depth of pit	(F1)	mm	-	-	-
Stroke	(C)	mm	265	265	265
Throat depth	(E)	mm	410	410	410
Support arms		amount	2	2	2
Back gauge finger blocks		amount	2	2	2
Speed of travel in X-axis		mm/sec	500	250	500
Travel in X-axis		mm	650	650	650
Speed of R-axis(max.)		mm/sec	350	350	350
Travel in R-axis		mm	250	250	250
Motor power		kw	2x4	2x4	2x4
Oiltank capacity		lt	80	80	80
Length	(L)	mm	3800	4200	4200
Width	(W)	mm	1670	1670	1680
Height	(H)	mm	2750	2750	2750
Weight approx.		kg	8900	9500	10500

STANDARD EQUIPMENTS

Y1, Y2, X, R - 4-Axes
"Control Unit - CNC Cybelec ModEva 10S 3D with PC 1200 3D SW
or Delem 66W"
CNC controlled motorized Crowning
CNC controlled Hyd-Mech Crowning (Standard ≥ 800 t)
European Clamping system (Standard ≤ 400 t)
DURMA Clamping system (Standard ≥ 600 t)
Sliding Front Arms with full length linear guide
Back gauge , Servo-motorised & Linear guide & Ball bearing system (X- R)
Sliding sheet support Arms with T-Canal and Tilting stop
Protection covers
Special designed - worldclass hydraulics blocks & valves
Worldclass electronics system

OPTIONAL EQUIPMENTS

CE with Manual F.AKAS II M -FPSC-B-C (SAFETY PLC)
CE with FIESSLER AKAS-LC II AKAS-3 M Motorised + FPSC (SAFETY PLC)
CE with SICK C 4000- only for tandem
DFS1 Laser Finger protection (for Bottom Beam-Non CE)

Z1, Z2 Axes
X1, X2 Axes
R1, R2 Axes
R1 R2 axes on the finger blocks
Delta X axis ,+250mm stroke
X Axis =1000 mm - Back protection with Light barrier
AP3-AP4 Sheet follower with sliding guide- Motorised height adj

Quick Release Clamping
Durma Hydraulic or Mechanical Clamping
Wila Hydraulic or Mechanical Clamping
Tool options (Durma, European, Wila) in tool catalog
Bottom tool seperation system
Crowning Vertical

For other options please contact us.

FBS (Flexible Bending Solutions)

- *Advanced Technologies for bending large sheet metal for extremely diversifed uses in the different industries while avoiding long, expensive welding operations which even takes the risk of material stability.*
- *FBS focuses also to minimize the large workpieces' handling before, during and after the bending operations and respects the next process.By this way offers:*
- *Flexibility of bending varies for diversified uses*
- *Accuracy for large & high spring-back sheets*
- *Lowers setup times by automation of loading& unloading*
- *Increases your employees' safety*
- *On high tonnage mega press brakes "box construction" frame is used which is the most stabile machine body in the world utilised technology for press brakes.Stability and rigidity of box constructions is approved by our refences all around the world and finite element analysis on the computers.*
- *Durma can provide you with all the support Flexible Bending Solutions and offer to the turnkey automatic bending cells complete with facility for loading and unloading.*

CUSTOM MADE PROJECTS

AD-S Tandem 812000

Loading Unloading System
Front Feeding System with Pneumatic Pushers
Light Pole Industry - Unmanned Production

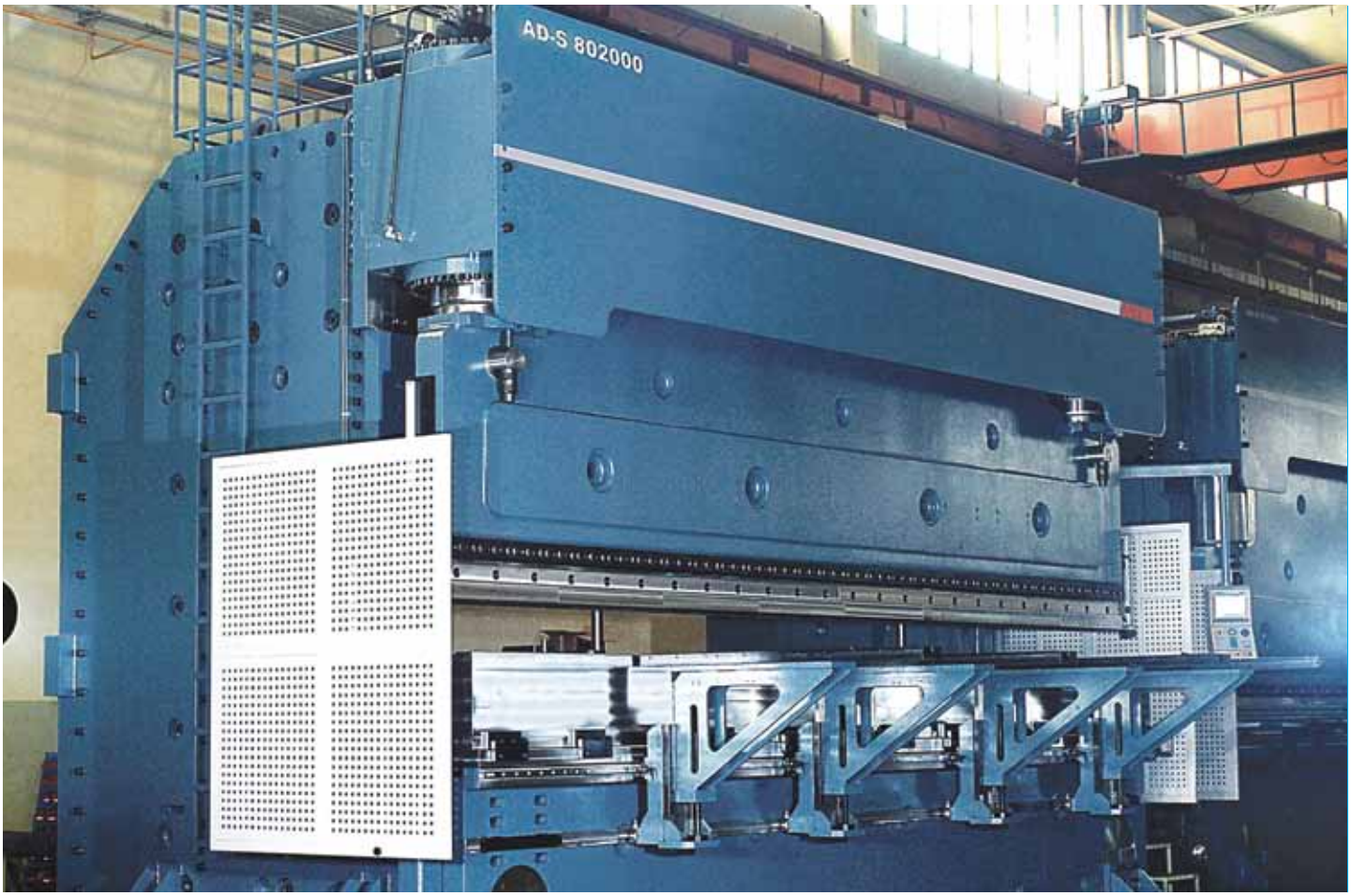
AD-S Tandem 911000

Loading Unloading System
Front Feeding System with Pneumatic Pushers
Light Pole Industry - Unmanned Production

AD-S Tandem 60400

Motorised Front Feeding System
Light Pole Industry

AD-S 80800 & 40400
Truck Dumper Industry



AD-S 802000
Defence Industry

AD-S 1051500
Special Hydraulics Front Support System
Steel Service Industry

AD-S Trio 40400
Steel Service Industry

AD-S Tandem 45220
AP3 AP4 Sheet Followers

Durma Robotised Press Brakes

20mm Thick Special Steel Armox for Defence Industry

FEATURES

Light Pole Pull-Out Systems

We have 3 solutions for light pole pull out.

System 1 From Side

System 2 From Bottom

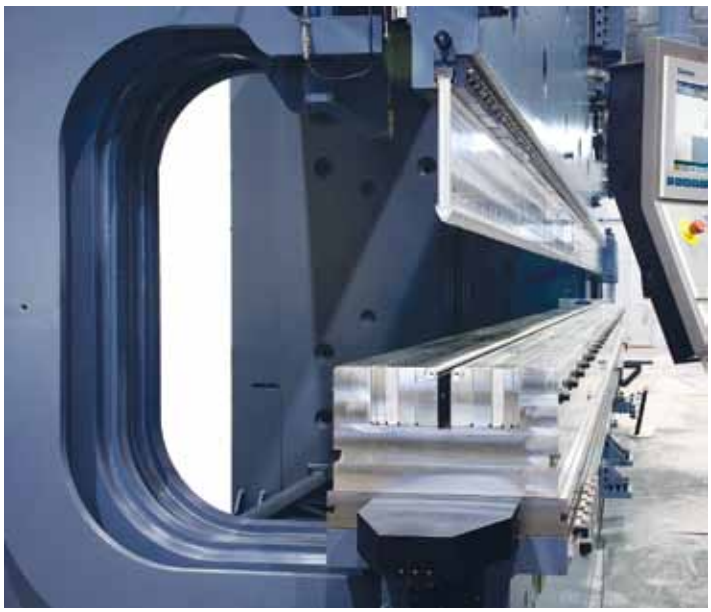
Special Hydraulics Front Support System

Road Barriers Industry

Special Back Gauge X1 X2
with Pneumatics Pushers

Hydraulics Bottom Tool Seperation System

Bottom Tool Adjustable Systems



Bottom Tool Lamel Adjustable System

Bottom Tool Motorised Adjustable System

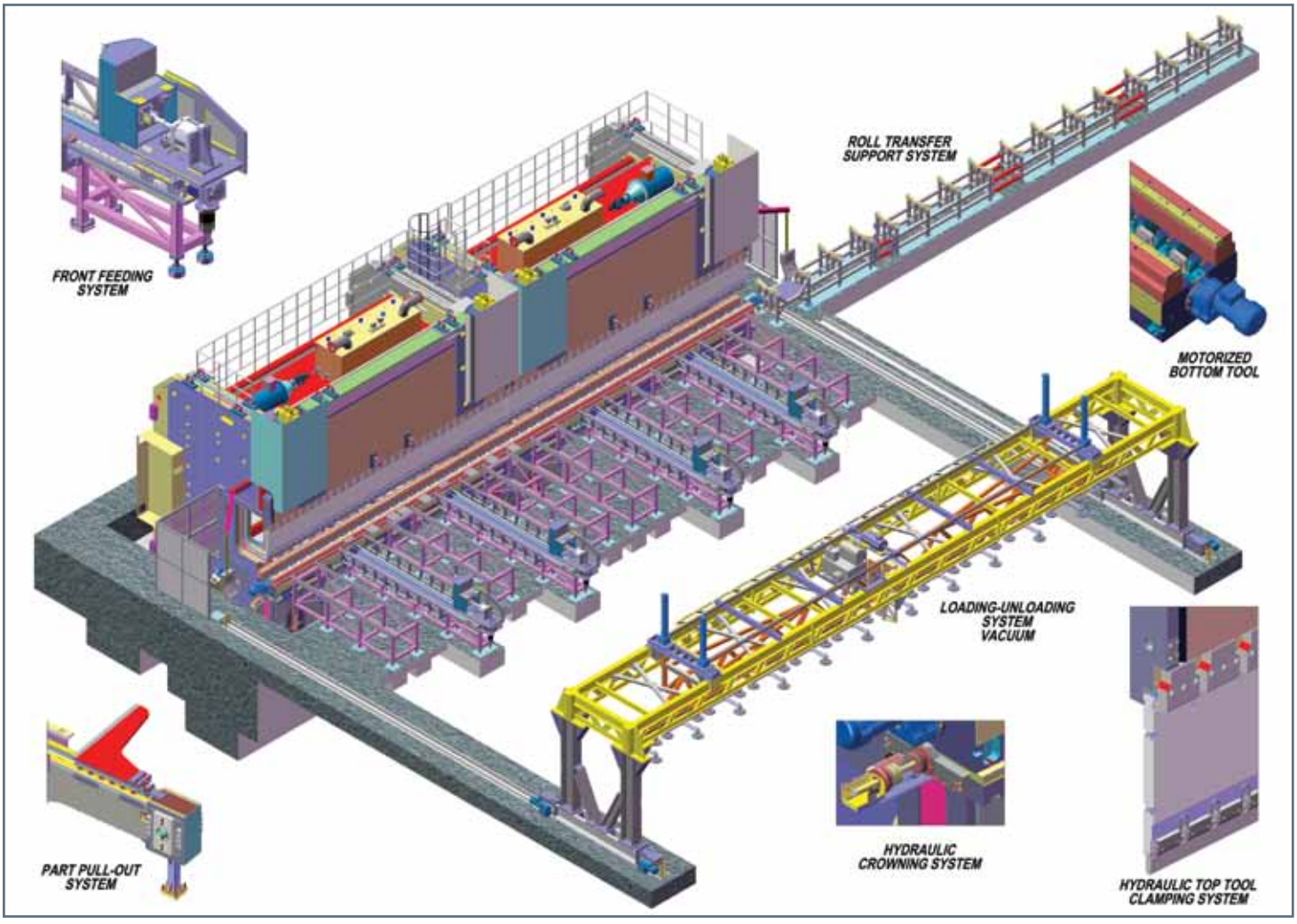
Bottom Tool Manual Adjustable System

Robust Box Construction

On high tonnage mega press brakes "box construction" frame is used which is the most stabile machine body in the world utilised technology for press brakes.Stability and rigidity of box constructions is approved by our refences all around the world and finite element analysis on the computers.

Piston Production

Hydraulic pistons are produced with precise CNC machining centers in one shot without reposition.



Frame Machining Tandem - Trio (Tetra Press Brakes

Cnc precise processing applied for all frames at one time without repositioning for tandem, trio and tetra press brakes.

AD-S 801000 Top Beam Machining