

# AD-S

Hydraulic Press Brakes

Series



Perfect Precision

Deep And Fast Bending

Efficient

Winning

Elegant Design



As a total supplier for sheet metal manufacturing with almost 70 years of experience, Durma understands and recognizes the challenges, requirements and expectations of the industry. We strive to satisfy the ever higher demands of our customers by continuously improving our products and processes while researching and implementing the latest technologies

In our three production plants with a total of 150.000 m<sup>2</sup>, we dedicate 1,000 employees to delivering high quality manufacturing solutions at the best performance-to-price ratio in the market.



**PRODUCTION IS**  
**MORE EFFECTIVE** NOW

From the innovations developed at our Research & Development Center to the technical support given by our worldwide distributors, we all have one common mission: to be your preferred partner.

**Durmazlar offers it's machines to the world markets under the Durma brand.**



**1**

High technology,  
modern production  
lines



**2**

Top quality  
components



**3**

High quality  
machines designed  
in R&D Centre

# AD-S

## Feel The Force and Performance

Our Machines are shaped with our superior experience and state of art technology, special designed as well as excellent combined component its the fastest , most reliable and prices press brakes on its category. With its rigid body structure, robust back gauge and high standard components it ensures long lasting and precision applications.

Therefore with *DURMA* press brakes you can always achieve perfect result.



## Fast, Precise and Perfect Bending

- Precise bending result at fast speed
- Minimalized tool change and adjustment time
- Maximized speed and safety



Production is *More Effective Now.*

## AD-S Series Hydraulic Press Brake



### Perfect and Fast Bending

#### Perfect components for precision

With Easy to use control unit, stable body structure, perfect design, low operating cost, different tool usage options, maximum safety standards, DURMA press brake is the best in the world in its segment.



#### Why DURMA Press Brakes

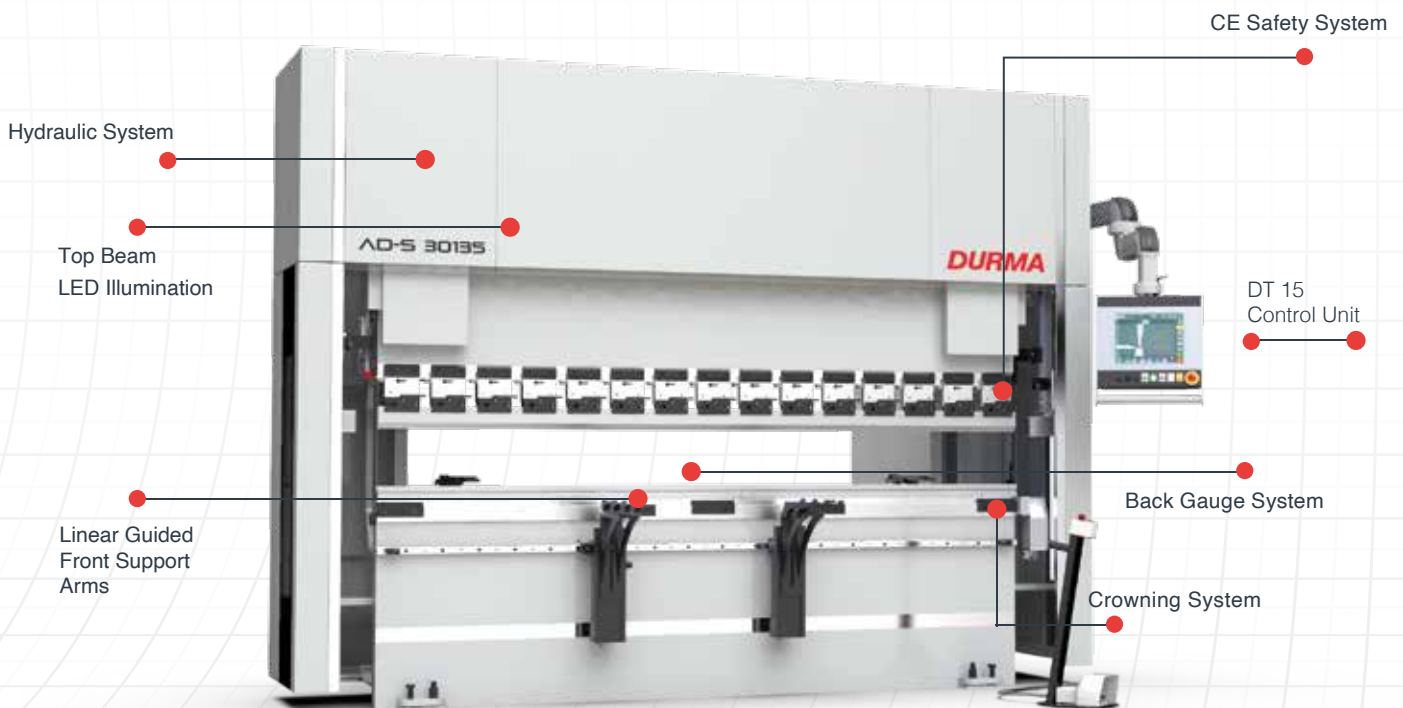
- Better and faster bending
- Stronger and rigid body structure
- High sensitivity and repeatability
- High technology excellent equipment
- Low service cost
- Reliability



# AD-S

## FAST, EFFICIENT, MODERN

AD-S Series hydraulic press brakes, designed with high technology to increase efficiency on precise part bending. Quality approved components. Stress relieved for long life and precise bending.



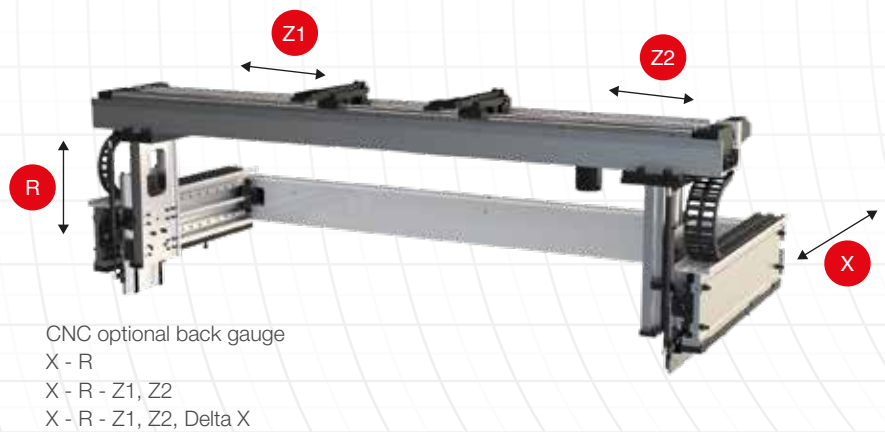
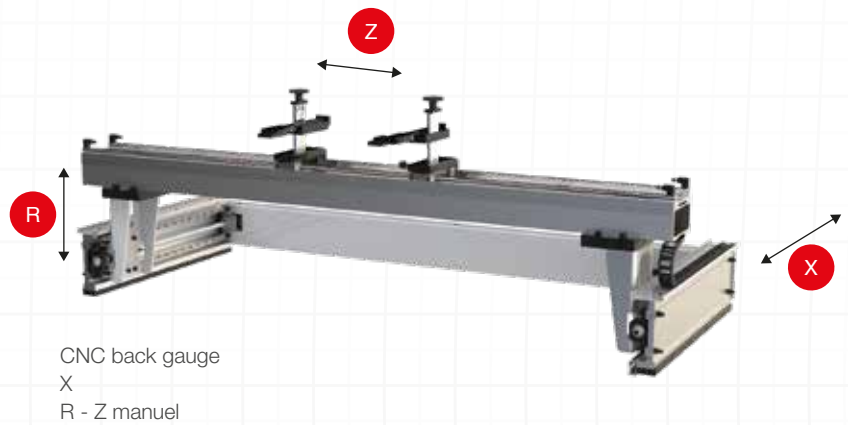
### General Specifications

- High sensitivity, Stress relieved steel construction body, long life Mono Block Frame
- Automatic calibration and first start up
- DURMA designed and copyrighted guiding system
- Ball Screw and linear guide integrated perfect back gauge system
- Durable, long life and sensitive bending capable special hardened top tools
- Suitable for segmented tools special and fast tool holding system
- Sensitive solutions on long and deep bending
- High accuracy linear scales
- CE safety standards
- Best quality world wide accepted hydraulic and electric components

# STRONG BACK GAUGE SYSTEM

- Precise
- Reliable
- Strong

- Fast and high accuracy
- Safe movement
- Resistance to crash
- Maintenance free
- Adjustment availability at every point

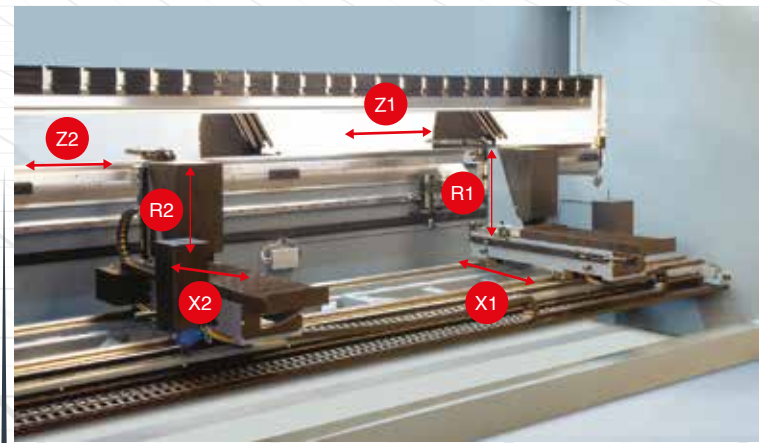


## Why DURMA Back Gauge ?

The most important feature to achieve perfect bending is the stability and the design of the back gauge, which allows an impeccable and correct product to be produced.

The high speed **double ballscrew** back gauge system movement is also supported with **double linear guides**, which helps the back gauge achieve long life, greater sensitivity and strengthens against any collisions.

Special designed finger blocks with steps to achieve maximum stability can also be supplied for every kind of bending solution.



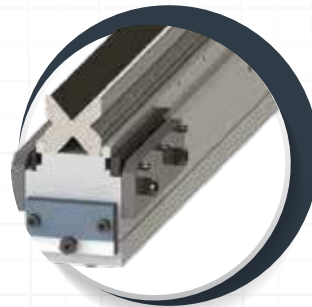
## TOOL HOLDERS AND TOOLS

Bending performance increased using with high quality European clamping system and easy to use. Narrow table designed for European style tool holder and Z bending.

DURMA is your solution partner with various tool options.



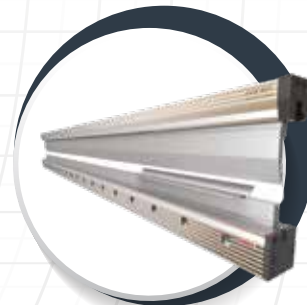
European  
Clamping System



European Type  
Bottom Tool (4V Die)



Quick  
Release Clamping



DURMA Hydraulic  
Holder



DURMA Top  
Tool Holder

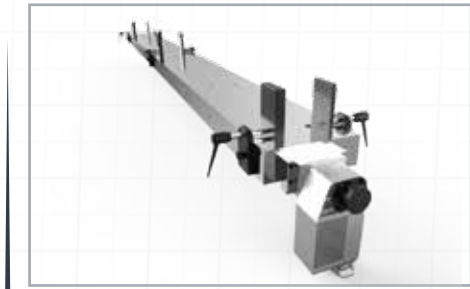


DURMA Multi  
V Bottom Tool

## SAFE AND ACCURATE BENDS WITH TOP QUALITY EQUIPMENTS

### ■ Crowning System

Manual or CNC-controlled motorized crowning system simplifies bending, by adjusting each point of the bending parts to acquire straight bends. The need for shimming is eliminated.



CNC Crowning System

### ■ Linear Guide Front Sheet Supports

Rugged support arms with tilting stops are mounted on a linear guide rail system. This allows 'finger-tip' lateral adjustment as required by the bend length of the part. They are also equipped with side gauges for the fast, easy, and accurate feeding of parts small or large.



Linear Guide Front Sheet Supports

### ■ CE Safety Systems

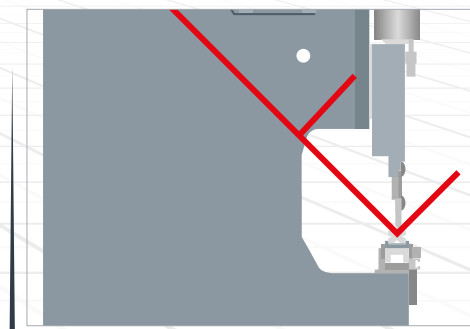
Our machines are designed in accordance with CE-Norms to ensure your safety with hydraulic, electric, appropriate height covers and laser light curtains. CE safety in tandem machines are also provided with light barriers.



CE Laser Safety System

### ■ Stable Top Beam Movement

By using long and planar guiding surfaces, all the disadvantages of point guiding are eliminated 100% free bending space: guiding system that eliminates bending between frame has been moved to the outside of the frame.



90 Degree Endless Bend

## BENDING IS MORE EASIER NOW

### ■ SKY 22 (Optional)



- 21.5 " TFT color touch screen with USB port and backup
- Automatic bending order
- Perfect control of electrical servo systems
- Archiving user bendings
- 2D/3D color graphics display and multi-simulation
- Windows 10 operating system
- D-Bend offline software
- Tandem applications
- Network interface
- X1-X2-R1-R2-Z1-Z2 and AP3-AP4 part support system
- DURMA laser angle measurement system compatible
- 2D / 3D part & tool import
- Robot integration compatible

### ■ DT 15 (Standard)



- Ergonomic panel design
- 15" color touchscreen
- Manual profiling on the touchscreen
- Diagnostic mode
- Easy programming mode
- Automatic bend sorting
- Multi-language option
- Tool programming and library
- D-Bend offline software
- Tandem compatible
- Internet service facility

### ■ DA-66S (Optional)



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

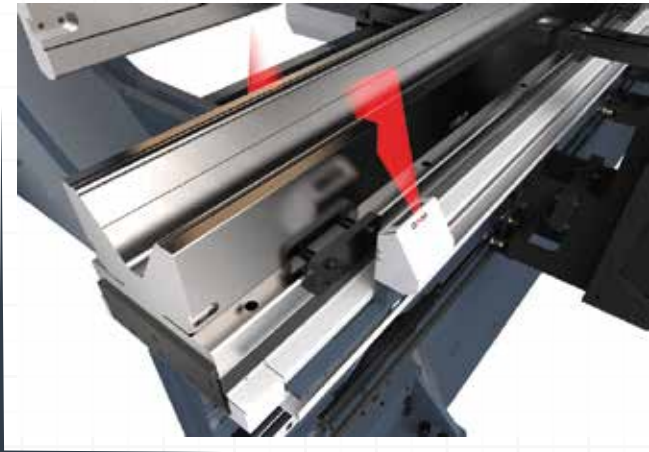
### ■ DA-69S (Optional)



- 24" TFT screen, 1920 x3080 pixels, 32 bit colour,
- Real-time Linux embedded OS
- Full touch screen control
- Storage capacity 2 GB
- Network connectivity
- Delem modusys compatible
- Tandem operation
- 2D/3D real-scale product programming and visualisation
- Automatic bending sequence calculation for 2D/3D
- DXF part & tool import support

Production is *More Effective Now.*

■ Durma Angle Measurement System



■ Automatic AP3 - AP4 Sheet Follower

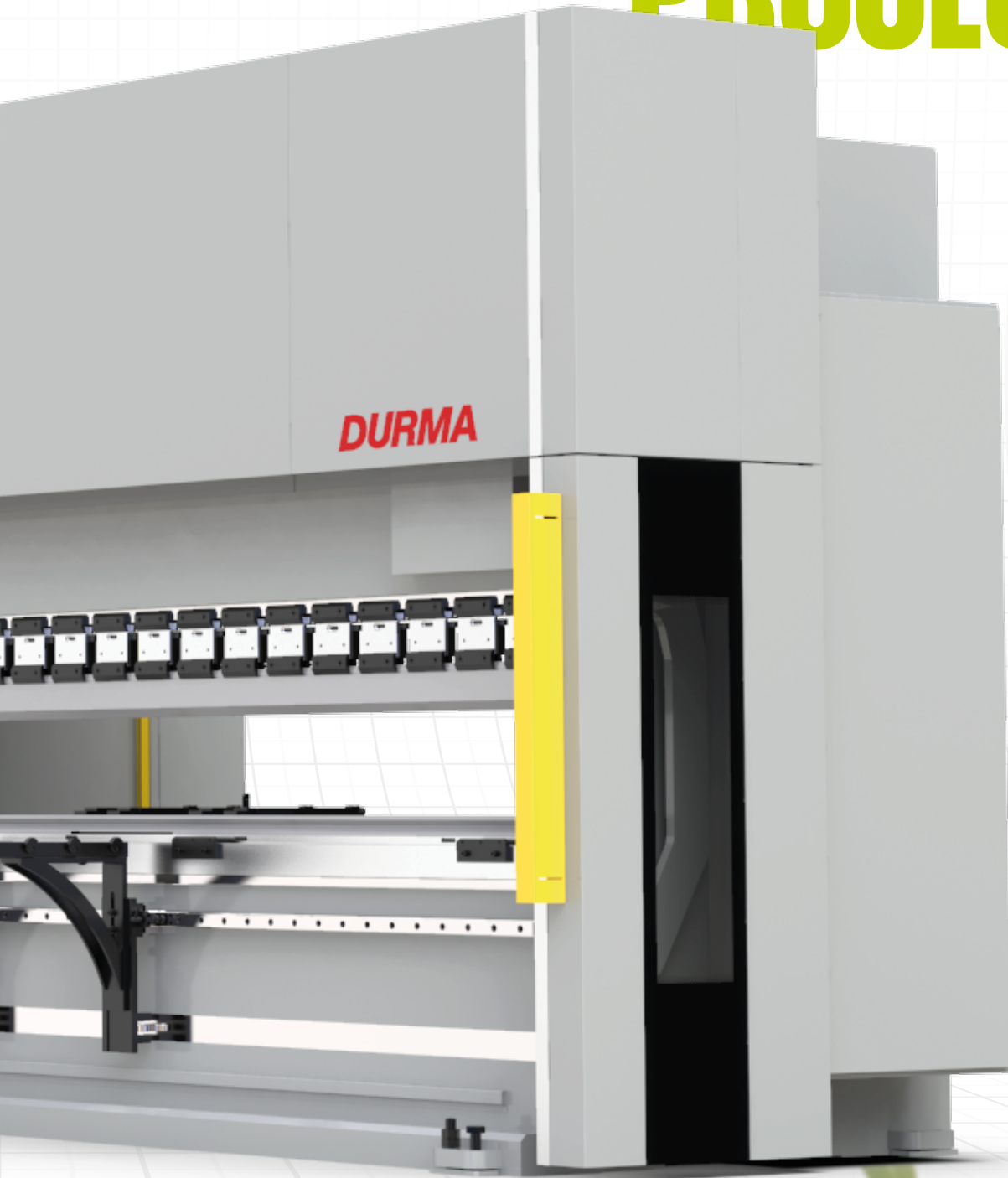


■ Robotic System Applications





# SPECIAL PROJECTS

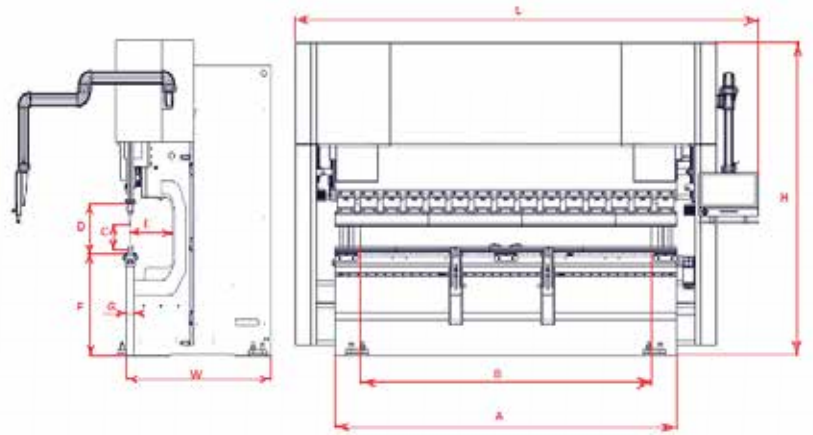


# AD-S

## AD-S SERIES TECHNICAL DETAILS

AD-S Series	Bending Force	Bending Length	Distance Between Columns	Stroke	Daylight	Throat Depth	Table Height	Table Width ( Narrow / Wide)	Working Speed		Y Axis Precision	X Axis Working Speed	
									Y Rapid Speed	Y Working Speed			Y Return Speed
									mm/sec	mm/sec			mm/sec
	Ton	mm	mm	mm	mm	mm	mm	mm			mm	mm/sec	
		A	B	C	D	E	F	G					
AD-S 1260	60	1250	1050	160	400	350	900	104	200	10	110	0,01	500
AD-S 2060	60	2050	1700	265	530	450	900	104	200	10	110	0,01	500
AD-S 25100	100	2550	2200	265	530	450	900	104	180	10	120	0,01	500
AD-S 30100	100	3050	2600	265	530	450	900	104/180	180	10	120	0,01	500
AD-S 30135	135	3050	2600	265	530	450	900	104/180	160	10	120	0,01	500
AD-S 30175	175	3050	2600	265	530	450	900	104/240	160	10	100	0,01	500
AD-S 30220	220	3050	2600	265	530	450	900	104/240	140	10	140	0,01	500
AD-S 30320	320	3050	2600	365	630	450	900	154/300	160	10	140	0,01	500
AD-S 37220	220	3700	3100	265	530	450	900	104/240	160	10	120	0,01	500
AD-S 40175	175	4050	3600	265	530	450	900	104/240	160	10	140	0,01	500
AD-S 40220	220	4050	3600	265	530	450	900	104/240	160	10	140	0,01	500
AD-S 40320	320	4050	3600	365	630	450	900	154/300	160	10	140	0,01	500
AD-S 40400	400	4050	3400	365	630	510	1050	154/300	140	8	120	0,01	350
AD-S 60220	220	6050	5100	265	530	450	1050	154/300	140	10	120	0,01	350
AD-S 60400	400	6050	5100	365	630	510	1220	154/300	120	8	100	0,01	350

# Production is *More Effective Now.*

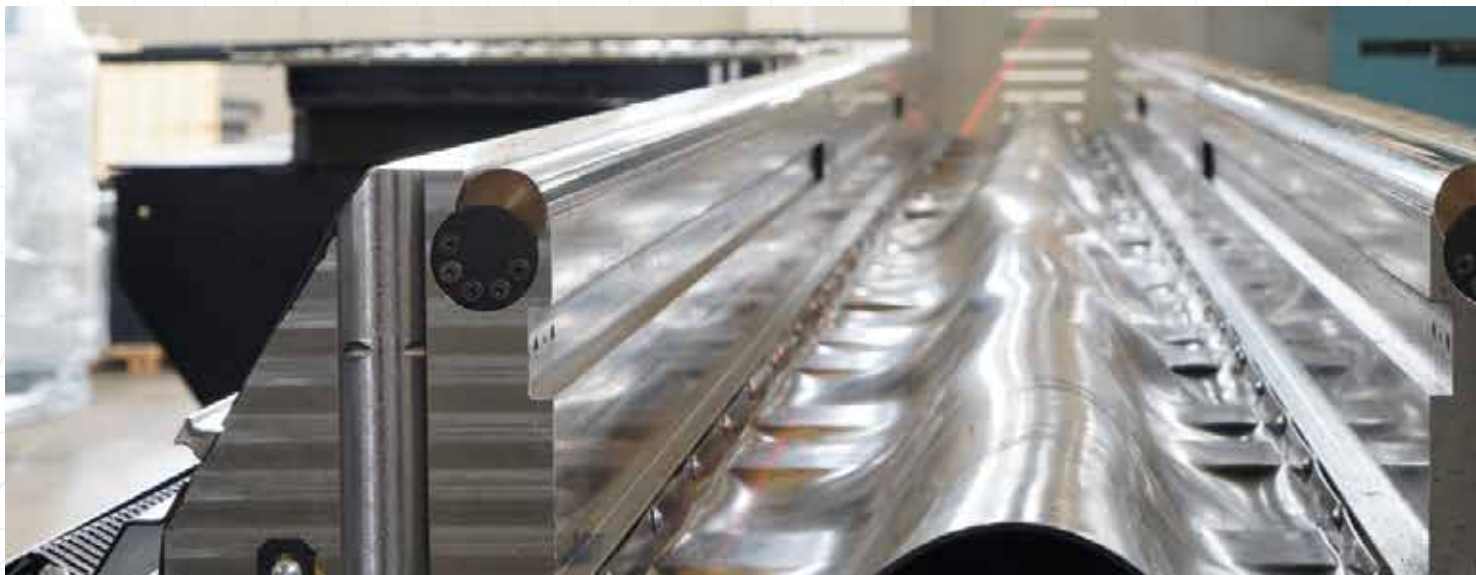


X Axis Precision	X Axis Distance			R Axis Working Speed	R Axis Working Distance	R Axis Precision	Z Axis Working Speed	Z Axis Working Distance	Motor Power	Oil Tank Capacity	Length	Width	Height	Weight Approx.
	650	750	1000											
mm	mm	mm	mm	mm/sec	mm	mm	mm/sec	mm	kW	lt	mm	mm	mm	kg
0,05	S	-	O	350	250	0,1	1000	490	7,5	100	2300	1550	2350	4700
0,05	S	-	O	350	250	0,1	1000	1100	7,5	100	3200	1550	2850	5600
0,05	S	-	O	350	250	0,1	1000	1580	11	150	3800	1670	2850	7800
0,05	S	-	O	350	250	0,1	1000	1990	11	150	4200	1670	2850	8500
0,05	S	-	O	350	250	0,1	1000	1990	15	200	4200	1680	2850	9580
0,05	S	-	O	350	250	0,1	1000	1990	18,5	200	4250	1700	2850	10900
0,05	S	-	O	350	250	0,1	1000	1990	22	250	4250	1770	3000	12600
0,05	S	-	O	350	250	0,1	1000	1990	37	250	4300	1820	3330	17100
0,05	S	-	O	350	250	0,1	1000	2375	22	250	4950	1770	3000	14440
0,05	S	-	O	350	250	0,1	1000	2910	18,5	200	5250	1700	2850	12780
0,05	S	-	O	350	250	0,1	1000	2910	22	250	5250	1770	3000	14750
0,05	S	-	O	350	250	0,1	1000	2910	37	250	5300	1910	3330	20000
0,05	-	S	O	300	250	0,1	1000	2670	37	500	5750	2110	3640	27760
0,05	-	S	O	300	250	0,1	1000	4400	22	250	7500	1770	3350	20800
0,05	-	S	O	300	250	0,1	1000	4400	37	500	7500	2110	3810	34600

S : Standard

O : Optional

# AD-S



Production is *More Effective Now.*



## STANDARD & OPTIONAL EQUIPMENT

### Standard Equipment

Control Unit - DT 15  
Y1, Y2, X - 3 Axis CNC Control  
Manual F. AKAS FPBS Security System  
Servo Motor Backgauge - Linear Guided & Ballscrew System (X)  
Manual Crowning System  
European Style Tool Clamping System  
Sliding Front Arms (with T-Slot and Stopper)  
World Standards Special Design Hydraulic Block and Valves  
World Standard Electric Equipment

### Optional Equipment

Control Unit - SKY 22 / DA-66S / DA-69S  
Manual F. AKAS FPSC Security System  
F.AKAS LC-5 Security System  
Motorized F. AKAS - 5P FPSC (Safety PLC)  
CE F.AKAS BLVT Light Barrier and Safety Cages (For Tandem Press Brakes)  
Motorized X, R Axis Backgauge System  
Motorized X, R, Z1, Z2 Axis Backgauge System  
Motorized X1, X2, R1, R2, Z1, Z2 Axis Backgauge System  
Delta X-Axis +/- 125 mm stroke  
X-Axis = 1000 mm - Light Barrier Back Protection  
"AP3-AP4 Automatic Sheet Follower System - Motorized Elevation Adjustment  
(There is a motorized elevation adjustment for 242 US tons or more.)"  
CNC Control Motorized Crowning System  
Durma Laser Angle Measurement (DAM)  
DBEND 3D Bending Simulation Program  
Quick Release Clamping System  
Hydraulic and Pneumatic Tool Clamping Systems  
Parking Area for Support Arms  
Central Lubrication System (Manual / Automatic)  
Oil Cooler / Oil Heater  
Additional Backgauge Finger and Sliding Front Support Arms  
Robot Integration  
Special Packing for Overseas Shipments

Production is *More Effective Now.*

# FAST ON SERVICE AND SPARE PARTS






DURMA provides the best level of service and spare parts with qualified personnel and spare parts in stock. Our experienced and professional service personnel are always ready at your service. Our professional training and application enriched courses will give you an advantage to use our machinery.



# Product Groups

# DURMA



-  Durma International
-  durmainternational
-  durmaint
-  durmamachines
-  Durmazlar



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