









As a total supplier for sheet metal manufacturing with almost 70 years of experience, Durma understands and recognizes the chal-lenges, equirements 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 m², we dedicate 1,000 employees to delivering high quality manufacturing solutions at the best performance-to-price ratio in the market.



PRODUCTION IS NORE 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.





Top quality

components

High technology, modern production lines



3 High quality machines designed in R&D Centre

2

AD-Servo Series Hybrid Press Brake

Now Production is More Effective

Meet your production needs cost-effectively with our low-energy consumption AD-Servo series, in response to rising energy costs. Enhance your competitiveness by offering commercial solutions in various sizes and reducing production costs.



COST DOWN PROFIL

Precise bending result at fast speed

- Minimalized tool change and adjustment time
- Maximized speed and safety

Low-energy consumption hydraulics

Energy consumption has a significant effect on Total Cost of Ownership of plant and machinery: even with standard machines, the energy consumption represents 30% of total costs, and with particularly energy-intensive applications, this share is remarkably higher.



Advantages

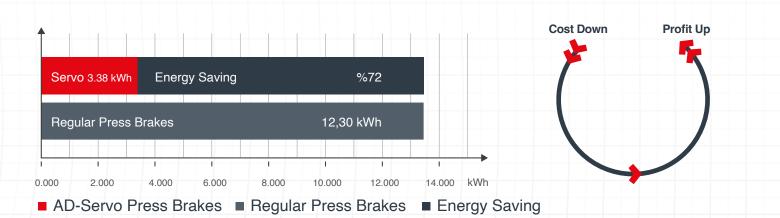
- High energy-saving potential
- Decreased operating costs
- Clearly reduced cooling effort
- Operational reliability
- High availability
- Lower investment
- System safety
- Future-oriented technology
- Remarkable noise reduction
- Fewer secondary measures
- Ease of integration of flexible check functions
- Decrease in the number of expensive machine failures
- Compliance with EU Directives



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COMPARISON OF ENERGY CONSUMPTION OF A PRESS BRAKES

Electric Consumption



Main components

Servomotor Hydromotor-pump (4-quadr. oper.) Servo controller IndraDrive C Software-Technology function Parameter Bell housing and coupling Power unit (Oil tank, accessories) Valve block, prefill valve Cylinder

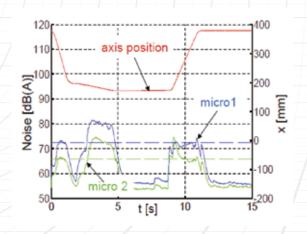
Physical characteristics

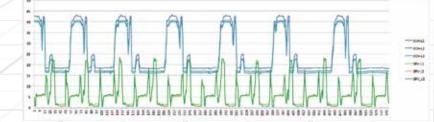
Control of position Control of pressure/load pressure Open/closed hydraulic circuit 4-quadrant operation

Productivity

%60 more productivity with %72 less energy consumption at work.

Less Noise Level





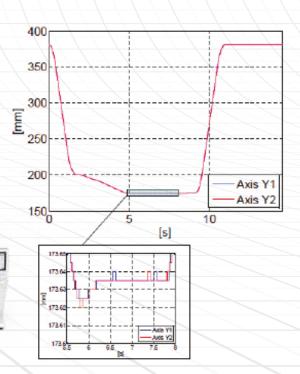
Fast Increase in Efficiency in Production

AD-Servo is high modularity of hydraulics also opens up economic options on existing plant and machinery by substituting fixed displacement power units by variable-speed pump drives with little effort.



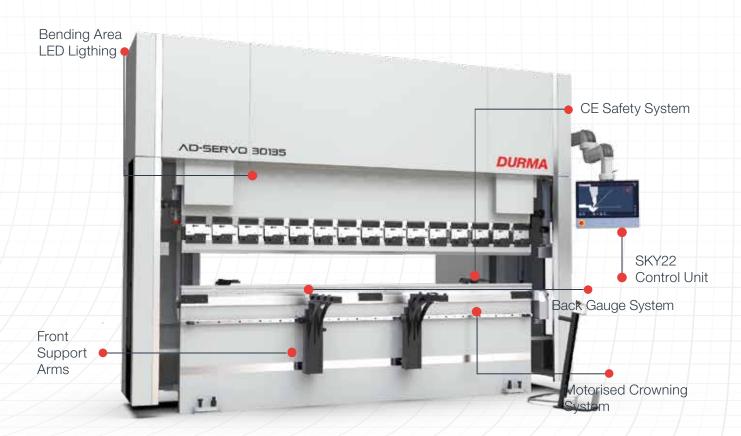
- Energy Saver
- Accurate on each cycle
- Economical
- Hi-Speed & Repeatability

Depending on cycle characteristics and rating, variable-speed pump drives achieve energy savings AD-Servo positioning accuracy Less Noise Level at target position



AD-Servo Series press to increase efficiency on components used. Stress and precise bending.

AD-Servo Series press brakes, designed with high technology to increase efficiency on precise part bending. Quality approved components used. Stress relieved made on bodies 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

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Best quality world wide accepted hydraulic and electric components

STRONG BACK GAUGE SYSTEM

- Precise
- Reliable
- Strong
- Fast and high accuracy
- Safe movement
- Durable linear motion components
- Maintenance free
- Adjustment availability at every point

CNC back gauge

X - R

Z manuel X

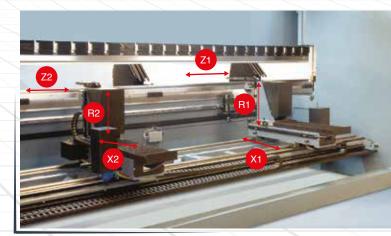
CNC optional back gauge X - R X - R - Z1, Z2 X - R - Z1, Z2, Delta X



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.



CNC optional back gauge X1 - X2, R1 - R2, Z1 - Z2

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.

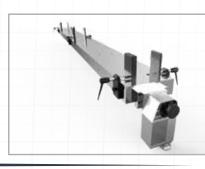
DURMA is your solution partner with various tool options.



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 li near 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

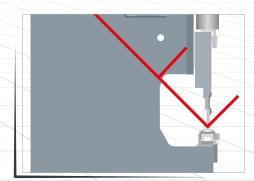
Our machines are designed in accordance with CE-Norms to ensure your safety with hydraulic, electric, appropriate height covers and laser light curtains. CE safety in tandem machines are also provided with light barriers.



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

NOW BENDING IS MORE EASIER

- 21.5 "TFT color touch screen with USB port and backup
- Automatic bending sequence
- Perfect control of electrical servo systems
- Archiving user bendings

SKY 22 (Standard)

- 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





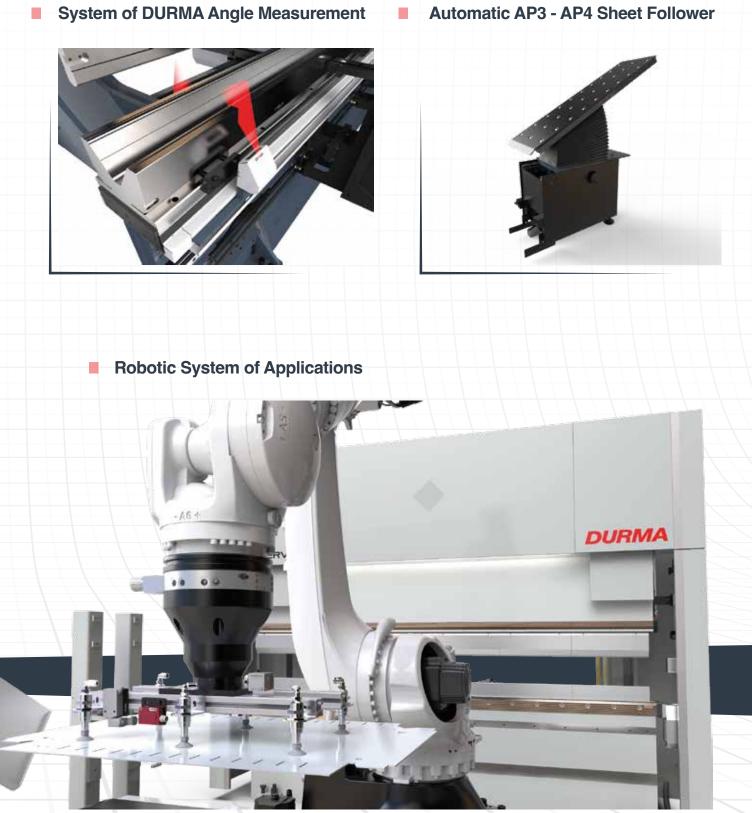
- 2D graphical touch screen programming mode
- 3D visualisation in simulation and production
- 24" high resolution colour TFT
- Full Windows application suite
- Delem modusys compatibility
- USB, peripheral interfacing
- User specific application support within the controllers multitasking environment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



- 24" TFT screen, 1920 x3080 pixels, 32 bit colour,
- Real-time Linux embedded OS
- Full touch screen control
- Storage capacity 2 GB

DA-69S (Optional)

- Network connectivity
- Delem modusys compitable
- Tandem operation
 2D/3D real-scale product programming and visualision
- 2D/3D real-scale product programming and visualision
 Automatic bending calculation 2D/ 3D
- DXF part & tool import support



AD-SERVO SERIES TECHNICAL DETAILS

| | AD-SERVO Series | Bending Force | Bending Length | Distance Between Columns | Stroke | Daylight | Throat Depth | Table Height | Table Width (Narrow / Wide) | Y Rapid Speed | Y Working Speed | Y Return Speed | Y Axes Precision | X Axes Working Speed | X Axes Precision |
|---|-----------------|---------------|----------------|--------------------------|--------|----------|--------------|--------------|------------------------------|---------------|-----------------|----------------|------------------|----------------------|------------------|
| _ | | ton | mm | mm | mm | mm | mm | mm | mm | mm/sec | mm/sec | mm/sec | mm | mm/sec | mm |
| 7 | | | А | В | С | D | E | F | G | | | | | | |
| | AD-Servo 30135 | 135 | 3050 | 2600 | 265 | 530 | 450 | 900 | 104 | 200 | 10 | 200 | 0,01 | 500 | 0,05 |
| / | AD-Servo 30175 | 175 | 3050 | 2600 | 265 | 530 | 450 | 900 | 104/180 | 200 | 10 | 200 | 0,01 | 500 | 0,05 |
| / | AD-Servo 30220 | 220 | 3050 | 2600 | 265 | 530 | 450 | 900 | 104/180 | 200 | 12 | 180 | 0,01 | 500 | 0,05 |
| / | AD-Servo 30320 | 320 | 3050 | 2600 | 365 | 630 | 450 | 900 | 104/240 | 160 | 10 | 160 | 0,01 | 500 | 0,05 |
| | AD-Servo 40220 | 220 | 4050 | 3600 | 265 | 530 | 450 | 900 | 104/240 | 200 | 12 | 180 | 0,01 | 500 | 0,05 |
| | AD-Servo 40320 | 320 | 4050 | 3600 | 365 | 630 | 450 | 900 | 154/300 | 160 | 10 | 160 | 0,01 | 500 | 0,05 |
| | AD-Servo 40400 | 400 | 4050 | 3400 | 365 | 630 | 510 | 1050 | 154/300 | 150 | 9 | 150 | 0,01 | 500 | 0,05 |
| | AD-Servo 40600 | 600 | 4050 | 3400 | 365 | 700 | 510 | 990 | 154/300 | 80 | 6,5 | 80 | 0,01 | 500 | 0,05 |
| | AD-Servo 60320 | 320 | 6050 | 5100 | 365 | 630 | 450 | 1100 | 154/300 | 160 | 10 | 160 | 0,01 | 500 | 0,05 |
| | AD-Servo 60400 | 400 | 6050 | 5100 | 365 | 630 | 510 | 1100 | 154/300 | 150 | 9 | 150 | 0,01 | 500 | 0,05 |
| _ | AD-Servo 60600 | 600 | 6050 | 5100 | 365 | 700 | 510 | 990 | 154/300 | 80 | 6,5 | 80 | 0,01 | 350 | 0,05 |

Machines are adjusted to optimum values.

| | | | | | | | | 0 × 1 | | | | | | |
|-----|------------|----------|----------------------|-------------------------|------------------|----------------------|-------------------------|-------------|-------------------|-------------------|--------|-------|--------|----------------|
| | X Axes Dir | mensions | | | | | | | | | | | | |
| 650 | 750 | 1000 | R Axes Working Speed | R Axes Working Distance | R Axes Precision | Z Axes Working Speed | Z Axes Working Distance | Motor Power | Consumption Ratio | Oil Tank Capacity | Length | Width | Height | Weight Approx. |
| mm | mm | mm | mm/sec | mm | mm | mm/sec | mm | kW | kW/h | lt | mm | mm | mm | kg |
| S | _ | 0 | 350 | 250 | 0,1 | 1000 | 1990 | 4 x 2 | 2,65 | 75 | 4200 | 1680 | 2850 | 9580 |
| S | - | 0 | 350 | 250 | 0,1 | 1000 | 1990 | 4 x 2 | 3,38 | 75 | 4250 | 1700 | 2850 | 10900 |
| S | - | 0 | 350 | 250 | 0,1 | 1000 | 1990 | 11 x 2 | 5,2 | 80 x 2 | 4250 | 1770 | 3000 | 12600 |
| S | - | 0 | 350 | 250 | 0,1 | 1000 | 1990 | 11 x 2 | 7,2 | 80 x 2 | 4300 | 1820 | 3330 | 17100 |
| S | - | 0 | 350 | 250 | 0,1 | 1000 | 2910 | 11 x 2 | 5,2 | 80 x 2 | 5250 | 1770 | 3000 | 14750 |
| S | - | 0 | 350 | 250 | 0,1 | 1000 | 2910 | 11 x 2 | 7,2 | 80 x 2 | 5300 | 1910 | 3330 | 20000 |
| - | S | 0 | 350 | 250 | 0,1 | 1000 | 2910 | 11 x 2 | 7,2 1 | 80 x 2 | 5750 | 2110 | 3450 | 27780 |
| - | S | 0 | 300 | 250 | 0,1 | 1000 | 2910 | 11 x 2 | 1,8 | 140 x 2 | 5750 | 2500 | 4000 | 40500 |
| - | S | 0 | 350 | 250 | 0,1 | 1000 | 4400 | 11 x 2 | 7,2 | 80 x 2 | 7500 | 1910 | 3350 | 29000 |
| - | S | 0 | 350 | 250 | 0,1 | 1000 | 4400 | 11 x 2 | 7,2 | 80 x 2 | 7500 | 2110 | 3810 | 34600 |
| - | S | 0 | 300 | 250 | 0,1 | 1000 | 4400 | 11 x 2 | 11,8 | 140 x 2 | 7600 | 2650 | 3950 | 52500 |

PRODUCTION IS NORE EFFECTIVE NOW

AD-SERVO 30135

DUR



STANDARD & OPTIONAL EQUIPMENT

Standard Equipment

Control Unit - SKY 22 Y1, Y2, X, R - 4- Axis F. AKAS LC 5 Front safety system CE F.AKAS BVLT Light barrier and safety cages (for tandem Press Brakes) Servo motor back gauge & linear guided & ballscrew system (X-R) CNC controlled motorized Crowning 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 - DA 66S - 69S Motorized F. AKAS - 3P FPSC (Safety PLC) Delta X Axis ± 125 stroke X Axis = 1000 mm – light barrier back protection AP3-AP4 Automatic system of sheet follower – Motorized elevation adjustment (There is a motorized elevation adjusment of 220 tons or more.) Durma laser angle measurement DBEND 3D bending simulation program Quick release clamping system Hydraulic and pneumatic tool clamping systems Parking area Central lubrication system manual / automatic Oil cooler / Oil heater Additional back gauge finger and sliding front support arms Special packing for overseas shipments

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 International**
- durmainternational
- durmaint



durmamachines







EN 2024/08/V03

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