



DURMA AD-ES 1240



High Capacity Low Energy Consumption

Elegant Design





As a total supplier for sheet metal manufacturing with almost 70 years of experience, Durma understands and recognizes the chal-lenges, 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 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.





High technology, modern production lines



3 High quality machines designed in R&D Centre

2

Top quality components



### **AD-ES Series Electrical Press Brake**

### **Environment Friendly**

DURMAAD-ES CNC PRESS BRAKE serial can provide the production starting from 1250 mm table width to 2050 mm table width. It is also possible to apply different sizes in line with customer demands.

Welding is performed on the machine body and upper table and all waste is prevented by stress relieving and appropriate processing technologies. Reducer drive system, precision ball screw, and nut connection, high torque-resistant bearing cylinder provide high precision bending results.



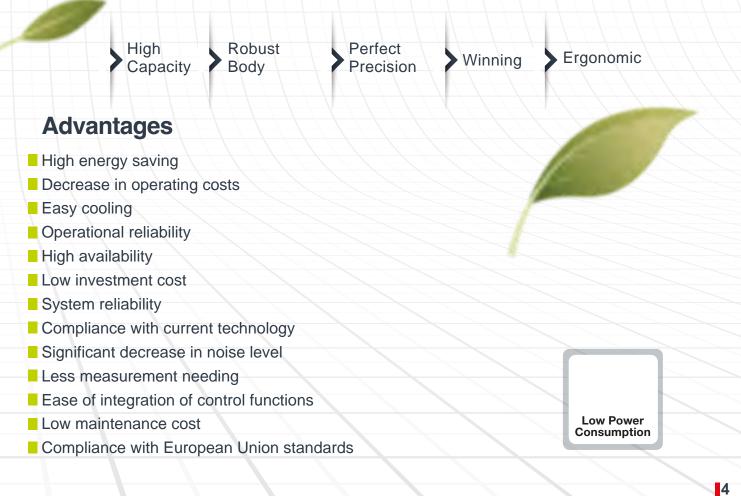
# ENVIRONMENT FRIENDLY LOW COST GAN

Precise bending result

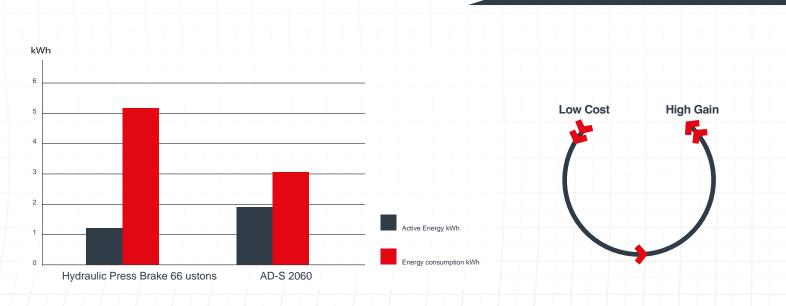
- Minimalized tool change and adjustment time
- Maximized speed and safety

### **Energy-efficient Hydraulics with Variable Speed Pump Drives**

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.







### Main Components

Servo-motor Reducer Ball screw and nut Mechanical Roller Bearing Software

#### Physical Features Position Control

Position Control Press/Load Press Control

### Efficiency

40% Less energy consumption 17% more productivity

Technical Data	AD-ES 2040	AD-S 2060
Motor power	7.2 kW	7.5 kW
Power consumption	3.1 kWh	5.2 kWh
Oil Capacity		100 lt
Approach Speed (mm/min.)	115	200
Bending Speed (mm/min.)	10-20	10
Return Speed (mm/min.)	115	110

## High Increase in Production Efficiency

Our AD-ES series solutions provide high energy savings to our business with speed, efficiency, quality and low power consumption.



- Energy savingSame consistency in each cycle
- Economic
- Repeatability at high speed





### FAST, EFFICIENT, MODERN AD-ES Series press brakes, designed with high technology to and precise bending.

increase efficiency on precise part bending. Quality approved components used. Stress relieved made on bodies for long life



#### **General Specifications**

- Precision reducer system
- Upper table suitable for world standard tools
- Robust body structure with long life and high performance
- Electric panels creating a safer working environment
- Servo motors providing high speed and high precision
- Ball screw and nut connection providing excellent power and motion transmission
- Back support system with rigid aluminum body
- AP1-AP2 system with high mobility and aluminum miter
- CE norm safety standards

## **STRONG BACK GAUGE SYSTEM**

#### Precise

- Reliable
- Strong
- Fast and high accuracy
- Safe movement
- Long-life linear motion elements
- No maintenance required
- Simple to use, easy to maintain

#### X 650 X R (AL) Back Gauge

#### 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.

#### X 650 X R Z1 Z2 (AL) Back Gauge

- AD-ES back gauge systems are long-life, precise and strength against collisions.
- High speed back gauge system moving with ballscrew is also supported with linear guides.

8



## **TOOL HOLDERS AND TOOLS**

The bending performance of the machine is increased by using High Quality European type clamping system and ease of use is provided. The lower body is designed as narrow for Z type bending and designed in accordance with European type tool holding system.

DURMA is your solution partner with various tool options.



### SAFE AND ACCURATE BENDS WITH TOP QUALITY EQUIPMENTS

#### Crowning System

CNC controlled, motorized crowning system provides perfect result in each point of bending. Your bending differences arising from the material or other factors are calculated by motorized CNC crowning system and the perfect result is achieved.



Motorized Crowning System

#### CE Safety Systems

Our machines are designed in accordance with European CE standards and directives in order to ensure your safety with hydraulic, electric, appropriate height covers and laser light curtains. CE safety in tandem machines are provided with light barriers.



**CE Laser Safety Systems** 

#### Aluminum Sheet Support System

Strong front arm can be moved to the right and left and fixed at the desired position with linear slide and roller system. With aluminum miter and bar support, the sheet material can be easily moved to the machine.



Front Sheet Support System with Linear Slide, Aluminum Miter

## NOW BENDING IS MORE EASY

Delem - 66T (Standard)



- 2D Graphic touch screen and programming mode
- 3D imaging in simulation and production
- 17" High resolution colors
- Suitable for full Windows applications compatible with DelemModusys
- USB and peripheral interface
- User specific application support Multitasking competencies
- Sensor bending and correction interface

Delem-69S (Optional)



- 24" TFT screen, 1920 x3080 pixels, 32 bit colour,
- Real-time Linux embedded OS
- Full touch screen control
- Storage capacity 4 GB
- Network connectivityDelem modusys compatible
- Tandem operation
- 2D/3D real-scale product programming and visualision
- Automatic bending calculation 2D/3D
- DXF part & tool import support



## ADVANTAGES COMPARED TO CLASSICAL PRESS BRAKES

#### **Drive System Group Equipment**

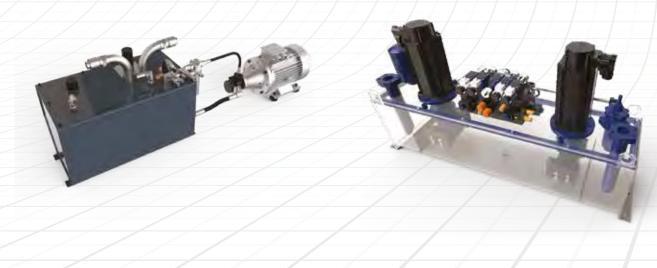
Servo Motor Gearbox Mechanical Roller Bearing Ballscrew and Nut

#### **Equipment Advantages**

Simpler Drive Group Less Component Easy and Fast Assembly Easy and quick maintenance Hydraulic oil-free drive system

Standard Hydraulic Press Brake

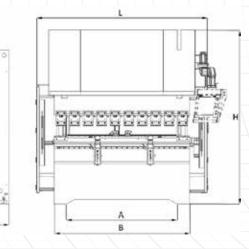
#### Servo Hydraulic Press Brake





## **AD-ES SERIES TECHNICAL DETAILS**

Machine Types	Bending Force	Bending Length (B)	Distance Between Columns(A)	Stroke	Daylight (C)	Throat Depth	Working Height	Rapid Speed	Bending Speed	Return Speed	Back Gauge X Axis Length	Back Gauge R Axis Length	Length (L)	Width (W)	Height (H)	Weight
Unit	Ton	mm	mm	mm	mm	mm	mm	mm/sec.	mm/sec.	mm/sec.	mm	mm	mm	mm	mm	kg
AD-ES 1240	40	1250	1050	200	440	250	1000	115	10-20*	115	650	250	2150	1625	2800	3.900
AD-ES 2040	40	2050	1700	200	440	350	1000	115	10-20*	1 15	650	250	2870	1625	2800	4.400



## **ROBOTCELL TECHNICAL DETAILS**

Voltage 380 -   Power Supply 1.5 k	480 V
Power Supply 1.5 k	
	N
Robot Maximum Lifting Force 12 K	
R-Cell Length 1250	mm
R-Cell Width 1950	mm
R-Cell Height 2150	mm
R-Cell Weight 1100	kg





## **STANDARD & OPTIONAL EQUIPMENT**

### **Standard Equipment**

Control Unit - DA 66T Y1, Y2, X, R - 4- Axis F. AKAS LC 5 front safety system Servo motor back gauge & linear guided & ballscrew system (X-R) CNC controlled motorized crowning (2040) European style tool clamping system Sliding front arms (With T-Slot and stopper) World standard electric equipment

### **Optional Equipment**

Control Unit - DA 69S X=650 mm X,R,Z1,Z2 Delta X Axis ± 125 stroke Motorized X,R,Z1,Z2 Axes backgauge Durma laser angle measurement DBEND 3D bending simulation program Quick release clamping system Hydraulic and pneumatic tool clamping systems 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.



#### TÄGLICH AKTUALISIERTE LAGERLISTE UNTER www.hesse-maschinen.com

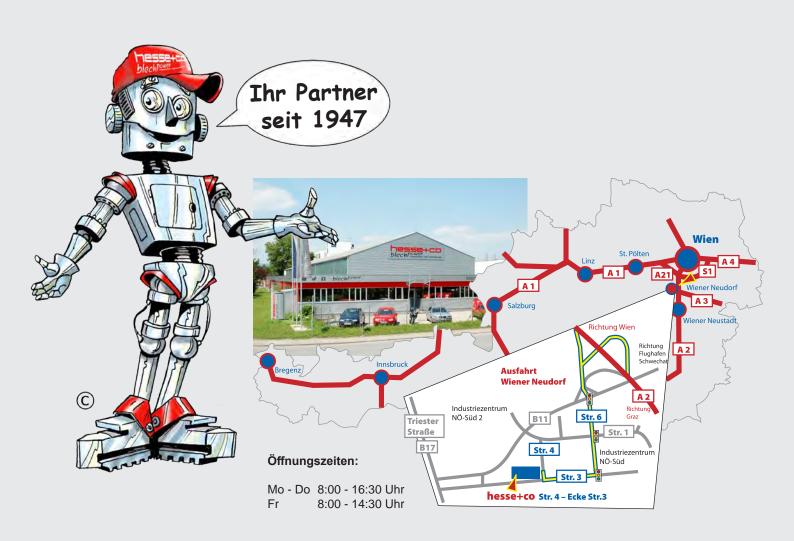
#### Vertrauen Sie auf über 70 Jahre Erfahrung!

Die Firma HESSE+CO wurde 1947 als Hersteller von Blechbearbeitungsmaschinen gegründet. Seit 1980 sind wir auf den Handel mit neuen sowie gebrauchten Blechbearbeitungs- und Werkzeugmaschinen spezialisiert. Wir haben ständig etwa 300 Maschinen in unserer 2.000 m<sup>2</sup> großen Ausstellungshalle, die nur 20 Minuten vom internationalen Flughafen Wien entfernt ist.

#### Trust in more than 70 years of experience!

HESSE+CO was established in 1947 as a manufacturer of sheet metal working machines. Since 1980 we are specialized in dealing with new and second hand sheet metal processing machines and machine tools. We always have approximately 300 machines available in our 2.000 m<sup>2</sup> showroom, which is located only 20 minutes from the Vienna International Airport, waiting for your inspection.

#### www.hesse-maschinen.com



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