

# AD-R SERIES Press Brakes



- WinningErgonomic





# **DURMA** The Winning Force



As a total supplier for sheet metal manufacturing with almost 60 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.

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.

Present Durmazlar machines with **DURMA** name to the world.





High technology, modern productior lines



Top quality components



High quality machines designed in R&D Centre



# The Winning Force

With simple programmable features the high speed AD-R Series press brake adds value to your business with low energy consumption, precision bending and maintenance-free structure. This series can be used safely for many years and simplifies the operators work load.

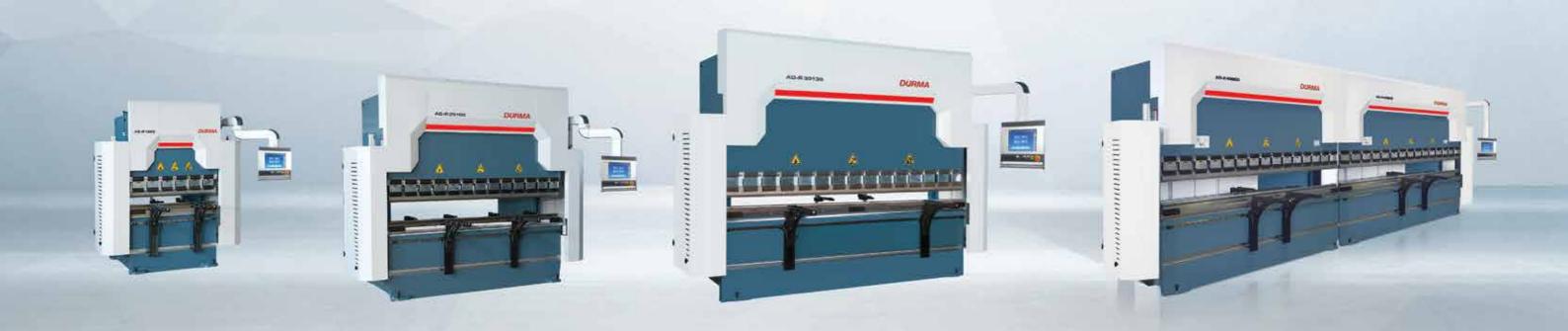
With DURMA press brakes, you always get great results.

# Fast, productive and perfect bending

Always precision bending results

Minimized tool exchange and setting time

Maximized speed and security





# AD-R30135 DURMA

### Advance Your Standards

World leader in its category

Perfectly equipped for sensitive bending, energy efficient solutions

With its easy to use control units, rigid body frame, perfect design, high efficiency, multiple tool usage solutions, top level CE safety standards and with its suitable price range, AD-R is the World leader in its category.

Easy to Use

Ergonomic

Efficient

Fast

Reliable Brand

### Why DURMA Press Brakes

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

# Gain More Power

# With its Performance and Price ratio it is the best CNC Press Brake in the World

AD-R series press brakes give excellent results of various type business types. It provides a convenient workspace for bends in many different sizes with a longer daylight.



### **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
- Adjustment availability at every point
- Resistance to crash
- Maintenance free

Standard back gauge X CNC

R manual Z manual

# Z1 Z2

# Why DURMA Back Gauge?

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 **ballscrew** back gauge system movement is also supported with **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.



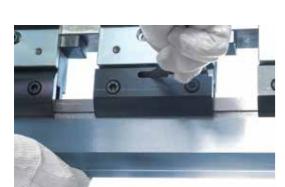
### Tool Holders and Tools

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



Quick Release Clamping



**DURMA Top Tool** 



European Type Bottom Tool (4V Die)



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**

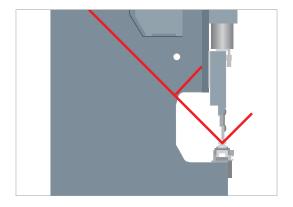
Our machines are designed in accordance with CE -Norms to ensure your safety with hydraulic, electric, appropriate height covers and laser light curtains.CE safety in tandem machines are also provided with light barriers



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

**DURMA** Touch

# **DT-15** Control Unit





Create profile with touch screen



Online service via Internet connection



Diagnostic mode



Easy programming page



Automatic bend calculation and listing



Tool programming and library



### D-Bend offline software

D-Bend Offline software allows you to simulate your bending at your desk in you office.

Youcan create your tools and it provides the opportunity to make new programs without interrupting production. D-Bend verifies you bend sequence. Creates verified part drawings for Laser, punch, and plasma machines.

# Everything is Under Control with User-Friendly

### DT15

- Automatic bend listing
- Storing your programs
- Easy bend functioning
- 2D color graphics display and multiple simulation
- Linux operating system
- D-Bend offline software
- Tandem compatible
- Multiple language options
- Ergonomic panel design
- USB port, back-up 10 "TFT color touch screen



### Optional Control Units

### ModEva 19T

19" color Touch Screen
On-screen finger profile drawing
Automatic bend listing
Very simple and convenient data transfer
Higher productivity thanks to easy and rapid
Multi-simulation capability
Simulation criteria for better sheet management
Windows XPe for multitasking and file management
EC safety-cycle management
Ethernet for Easy communication
Bundled Offline Software
15" color Touch Schreen



### **DA-58T**

2D graphical touch screen programming
15" high resolution colour TFT
Bend sequence calculation
Crowning control
Servo and frequency inverter control
Advanced Y-axis control algorithms for closed-loop as
well as open-loop valves
USB, peripheral interfacing



# Standard & Optional Equipment

### Standard Equipments

Y1, Y2, X, - 3- Axis Control Unitesi - CNC DT15 CE Manuel F. AKAS II M FPSC-B-C + Safety Cages with switch CE F.AKAS BVLT Light barrier and safety cages (for tandem Press Brakes) Back gauge - motorised & linear guide & ball bearing system (X) Manuel Crowning System European Clamping system Sliding sheet support Arms with T-Channel and Tilting stop Special designed – world-class hydraulics blocks & valves World-class electrical equipment

### Optional Equipments

Control Unit - ModEva 19T Control Unit - CNC DA 58T Control Unit - CNC DA 66T R Axis CNC R CNC Axis [X=650 mm X,R (AL double guide)] R CNC Axis [X=650 mm X,R,Z,, Z, (AL double guide)] European style top tool European style bottom tool Bottom tool Durma Quick Release Clamping **CNC** controlled Motorized Crowning Back gauge 1000 mm - Back protection with Light barrier Oil Cooler - Oil Heater Additional Finger blocks & Sliding front arms Overseas special packaging DBEND 3D Bending arrengement and simulation software

## 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.



Spare Parts



Consultancy

R&D Center







After Sales Service

Service Agreements

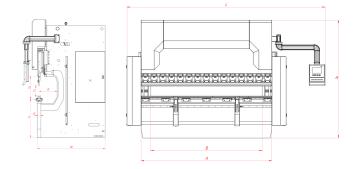




Software

Flexible Solution





# AD-R Series Techical Details

AD-R 2060 60 2050 1700 160 400 350 900 104 200 10 110 0,01 500 0,05 \$ - O 140 1100 7,5 100 3200 1550 2850 AD-R 25100 100 2550 2200 285 530 450 900 104 180 10 120 0,01 500 0,05 \$ - O 140 1580 11 100 3800 1670 2850 AD-R 30100 100 3050 2600 265 530 450 900 104/180 180 10 120 0,01 500 0,05 \$ - O 140 1990 11 100 4200 1670 2850 AD-R 30135 135 3050 2600 265 530 450 900 104/180 160 10 120 0,01 500 0,05 \$ - O 140 1990 15 150 4200 1680 2850 AD-R 30175 175 3050 2600 265 530 450 900 104/240 160 10 10 100 0,01 500 0,05 \$ - O 140 1990 15 150 4200 1680 2850 AD-R 30320 320 3050 2600 265 530 450 900 104/240 140 10 140 0,01 500 0,05 \$ - O 140 1990 22 250 4250 1770 3000 AD-R 37175 175 3700 3100 265 530 450 900 104/240 160 10 100 0,01 500 0,05 \$ - O 140 1990 22 250 4250 1770 3000 AD-R 37175 175 3700 3100 265 530 450 900 104/240 160 10 100 0,01 500 0,05 \$ - O 140 1990 37 250 4300 1820 3330 AD-R 37175 175 3700 3100 265 530 450 900 104/240 160 10 100 0,01 500 0,05 \$ - O 140 2375 18.5 250 450 1770 3000 AD-R 37220 220 3700 3100 265 530 450 900 104/240 160 10 120 0,01 500 0,05 \$ - O 140 2375 18.5 250 450 1770 3000 AD-R 37220 220 3700 3100 265 530 450 900 104/240 160 10 120 0,01 500 0,05 \$ - O 140 2375 18.5 250 450 1770 3000 AD-R 40175 175 4050 3600 265 530 450 900 104/240 160 10 120 0,01 500 0,05 \$ - O 140 2375 22 250 4550 1770 3000 AD-R 40175 175 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 \$ - O 140 2910 18.5 250 5250 1770 3000 AD-R 40320 320 4050 3600 365 630 450 900 104/240 160 10 140 0,01 500 0,05 \$ - O 140 2910 18.5 250 5250 1770 3000 AD-R 40400 400 4050 3400 365 630 510 1050 154/300 160 10 140 0,01 500 0,05 \$ - S O 140 2910 37 250 5300 1910 3330 AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 500 0,05 \$ - S O 140 2400 22 500 7500 1770 3350																	5.									
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AD-R 30175   175   3050   2800   265   530   450   900   104/240   160   10   100   0,01   500   0,05   S   -     O   140   1990   18,5   250   4250   1700   2850   2800   2850	AD-R 30100	100	3050	2600	265	530	450	900	104/180	180	10	120	0,01	500	0,05	S	-	0	140	1990	11	100	4200	1670	2850	8500
AD-R 30220 220 3050 2600 265 530 450 900 104/240 140 10 140 0,01 500 0,05 S - O 140 1990 22 250 4250 1770 3000  AD-R 30320 320 3050 2600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2375 18,5 250 4950 1700 3000  AD-R 37175 175 3700 3100 265 530 450 900 104/240 140 10 10 100 0,01 500 0,05 S - O 140 2375 18,5 250 4950 1700 3000  AD-R 40175 175 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2375 22 250 4950 1770 3000  AD-R 40220 220 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2910 18,5 250 5250 1700 2850  AD-R 40320 320 4050 3600 365 630 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2910 22 250 5250 1770 3000  AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640  AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 30135	135	3050	2600	265	530	450	900	104/180	160	10	120	0,01	500	0,05	S	-	0	140	1990	15	150	4200	1680	2850	9580
AD-R 30320 320 3050 2600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 1990 37 250 4300 1820 3330  AD-R 37175 175 3700 3100 265 530 450 900 104/240 160 10 120 0,01 500 0,05 S - O 140 2375 18,5 250 4950 1770 3000  AD-R 40175 175 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2375 22 250 4950 1770 3000  AD-R 40220 220 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2910 18,5 250 5250 1770 3000  AD-R 40320 320 4050 3600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2910 22 250 5250 1770 3000  AD-R 40320 320 4050 3600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2910 37 250 5300 1910 3330  AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640  AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 30175	175	3050	2600	265	530	450	900	104/240	160	10	100	0,01	500	0,05	S	-	0	140	1990	18,5	250	4250	1700	2850	10900
AD-R 37175 175 3700 3100 265 530 450 900 104/240 160 10 120 0,01 500 0,05 S - O 140 2375 18,5 250 4950 1770 3000 AD-R 40175 175 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2910 18,5 250 5250 1770 3000 AD-R 40320 320 4050 3600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2910 37 250 5300 1910 3330 AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640 AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 30220	220	3050	2600	265	530	450	900	104/240	140	10	140	0,01	500	0,05	S	-	0	140	1990	22	250	4250	1770	3000	12600
AD-R 37220 220 3700 3100 265 530 450 900 104/240 160 10 120 0,01 500 0,05 S - O 140 2375 22 250 4950 1770 3000  AD-R 40175 175 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2910 18,5 250 5250 1700 2850  AD-R 40220 220 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2910 22 250 5250 1770 3000  AD-R 40320 320 4050 3600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2910 37 250 5300 1910 3330  AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640  AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 30320	320	3050	2600	365	630	450	900	154/300	160	10	140	0,01	500	0,05	S	-	0	140	1990	37	250	4300	1820	3330	17100
AD-R 40175 175 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2910 18,5 250 5250 1700 2850 AD-R 40220 220 4050 3600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2910 37 250 5300 1910 3330 AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640 AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 37175	175	3700	3100	265	530	450	900	104/240	140	10	100	0,01	500	0,05	S	-	0	140	2375	18,5	250	4950	1700	3000	11750
AD-R 40220 220 4050 3600 265 530 450 900 104/240 160 10 140 0,01 500 0,05 S - O 140 2910 22 250 5250 1770 3000 AD-R 40320 320 4050 3600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2910 37 250 5300 1910 3330 AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640 AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 37220	220	3700	3100	265	530	450	900	104/240	160	10	120	0,01	500	0,05	S	-	0	140	2375	22	250	4950	1770	3000	14440
AD-R 40320 320 4050 3600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2910 37 250 5300 1910 3330 AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640 AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 40175	175	4050	3600	265	530	450	900	104/240	160	10	140	0,01	500	0,05	S	-	0	140	2910	18,5	250	5250	1700	2850	12780
AD-R 40320 320 4050 3600 365 630 450 900 154/300 160 10 140 0,01 500 0,05 S - O 140 2910 37 250 5300 1910 3330 AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640 AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 40220	220	4050	3600	265	530	450	900	104/240	160	10	140	0,01	500	0,05	S	-	0	140	2910	22	250	5250	1770	3000	14750
AD-R 40400 400 4050 3400 365 630 510 1050 154/300 140 8 120 0,01 350 0,05 - S O 140 2670 37 500 5750 2110 3640 AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 40320	320	4050	3600	365	630	450	900	154/300	160	10	140	0,01	500	0,05	S	-	0	140	2910	37	250	5300	1910	3330	20000
AD-R 60220 220 6050 5100 265 530 450 1050 154/300 140 10 120 0,01 350 0,05 - S O 140 4400 22 500 7500 1770 3350	AD-R 40400	400	4050	3400	365	630	510	1050	154/300	140	8	120	0,01	350	0,05	-	S	0			37					27760
1400 454900	AD-R 60220					530	450	1050	154/300	140	10	120			0,05	-		0								20800
AD-R 60320   320   6050   5100   365   630   450   1100   154/300   140   10   120   0,01   350   0,05   -   S   O   140   4400   37   250 7500   1910   3550	AD-R 60320							1100	154/300			120			-	_										29000
AD D 20100																										34600

Machines set according to optimum values.

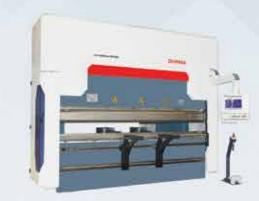
# **DURMA**



PANEL BENDER



**PUNCH** 



PRESS BRAKE



VARIABLE RAKE SHEAR



PLASMA



L ANGLE PROCESSING CENTER



TUBE LASER CUTTING



FIBER LASER



IRON WORKER



POWER OPERATED SHEAR



ROLL BENDING



PROFILE BENDING



CORNER NOTCHER

# **DURMA**

### Today, Tomorrow, Forever...

V	b	ri		s(mm)																				
			0.5	0.8	1	1.2	1.5	1.8	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	12	15	18	20
6	5	1	2,5	6,5	10																			
8	6	1,3	2	5	8	11																		
10	7	1,7	1,5	4	6	9	13													_		_		
12	9	2		3	5	7	11	16													F			
15	12	2,7			4	6	9	13	16												1			
20	15	3,3				4	7	10	12	19										<b>⋖</b> し	'	J		
26	18	4,2					4	7,5	9	14	21										9/			
30	22	5						6,5	8	12	19	24								1 1	V	9/		
32	23	5,4							7,5	11,6	17	23	30								v			
37	25	5,8								10	14,5	20	26	33						-		-		
42	29	6,7									13	17	23	29	33,5									
45	32	7,5										16	21	27	33	48								
50	36	8,3											19	24	30	43	58							
60	43	10												20	25	36	49	64						
70	50	11,5													21	31	42	55	69					
80	57	13,5														27	37	48	60	75				
90	64	15			1.4	2 - 1	v D.		2								32	42	54	66	95			
100	71	17	$F = \frac{1,42 \times L \times Rm \times s^2}{1000 \times V} (Ton)$ $\frac{32}{38} \frac{42}{48} \frac{54}{66}$ $\frac{38}{37} \frac{46}{46}$										86	134										
130	93	22				100	)0×7	_											37	46	66	103	149	
180	130	30																		33	48	75	107	153
200	145	33																			43	67	83	119
250	180	42																				54	77	92

F: Bending Force (Ton) L: Length (mm) Ri: Inside Radius (mm) Rm: Material Tensile Strength (daN/mm²) V: Channel Width (mm) B: Minimum Sheet Bending Side (mm) S: Thickness (mm)

AD-R SERIES
Press Brakes

Durmazlar Makina San. ve Tic. A.Ş.

OSB 75. Yıl Bulvarı Nilüfer-Bursa / Türkiye

P: +90 224 219 18 00 F: +90 224 242 75 80 info@durmazlar.com.tr

www.durmazlar.com.tr





Durmazlar Makina San. Tic. A.S. has right to change catalogue values and machine technical details without notice.