

Innovative Technologies | www.ermaksan.com.tr | Press Brake Series



Evolution II

Hybrid Press Brake



CNC PRESS BRAKE MODEL EVO

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NEW

EVO II

Hybrid Press Brake

Less energy...
More power...*

Demand for Economical Machines is increasing due to rising Global energy prices. Ermaksan recognizes that customers are becoming more aware of their social responsibility. Customers want efficient, eco-friendly manufacturing that is both beneficial to the environment and their profit margins.

With this in mind, Ermaksan has used its 30 years' experience in press brake manufacturing to present to you, the new generation Evolution II hybrid press brake series.

With 30 years' experience, 17" touch screen control panel

ECO-FRIENDLY Durable Body.

The new integrated hood provides high protection and safety.

ERMAK

EVO II

EVO II

*In conventional press brake machines, energy is consumed even in standby mode but Evolution II press brake only uses energy whilst it is bending.

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ADVANTAGES

The Fastest: 0,78 in/sec

It is a fast operating press brake using servo motors and highly efficient pump.

The Most Accurate: 0,0003 in

The new generation Evolution series press brake has high bending accuracy between +/- 0,0003 inch.

Eco – Friendly

The new series press brakes are eco-friendly using comparably less energy than a standard pressbrake.

65% Energy Saving

An average 65% energy saving when used in comparison to standard press brakes.

Bending efficiency

Highest bending efficiency is achieved as no pressure is lost through proportional valves.

Ease of maintenance

Y1 and Y2 axes have stand-alone oil tanks. Maintenance is conducted only when required making the machine easy to maintain.

Quietest in its class: 63db

Noiseless (63db). The lowest noise level among its competitors. (TUV-SUD certified).

3x longer system life

System and pump have 3 times longer lifespan due to high quality components and smart running technology.

No need to change oil for 5 years

New generation press brakes are developed to require fewer oil changes. You are not required to change the oil for 5 years.

Oil does not heat up

Oil is more durable than ever because the oil does not heat up thanks to the pumping system which does not run when the machine is idle.

Flawless bending

Provides flawless bending for small parts at different points.

Reduced oil level: 95%

The amount of oil used within the machine has been reduced by 95% in comparison to standard hydraulic pressbrakes of the same spec. This again helps to reduce manufacturing costs.



Rapid | Silent | Sensitive | Eco friendly | Energy saving

Energy Consumption

- 95% less while idle between bends.
- 70% less during free fall.
- At least 50% saving when bending. (energy consumption increases as sheet thickness increases.)
- If delay time at end of bend is composed, then it is 84% less.
- 70% less consumption during return of the upper beam.



EVOLUTION Series press brakes provide accurate bends even for small parts at different points thanks to high repeatability and bending precision.



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Standard Controller



Delem
DA-66T

General Features:

- Windows operating system
- 3D simulation of applications before bending
- Standard onboard network connection
- 4 Mb memory product team
- up to 7 digits programming capacity
- Max. repetition of 9999 program
- 17" high-definition LCD coloured screen
- Max. 25 steps in a program (sequence)
- Max. 99 steps repeatability
- mm/inch - T/KG convert
- Extra USB keyboard and USB mouse connection
- Error messages
- Machine time and stroke counter
- Working as tandem machine
- Delem modular compatibility
- Motorised front support system
- Laser angle measurement
- Dynamic crowning

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Rolleri Tool Clamping Systems



Rol-1 KDS



Double-sided Rol-1 tool clamping system allows tools to be inserted in reverse.

Rol-1 PN (Pneumatic)



Pneumatic clamping systems; air pressure forces the tools to fasten and centre themselves. An excellent solution for shortening set up time on press brakes.

Rol-5 System



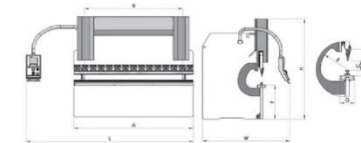
Standard Prolocam type tools can be inserted or removed vertically; Rol-5 clamping system eliminates difficulty of removing tools by sliding along the beam.

Rol-1



With patented balled type upper top tools, the tools can be inserted or removed vertically; Rol-1 clamping system eliminates difficulty of removing tools by sliding along the beam.

Technical Features (Standard / Optional)



TYPE	8,50 - 121	10,17 - 121	10,17 - 187	10,17 - 275	12,34 - 187	12,34 - 275	13,45 - 187	13,45 - 275	14,01 - 187	14,01 - 275
BENDING LENGTH (A) - (inch)	102,4	122,0	122,0	122,0	148,0	148,0	161,4	161,4	168,1	168,1
BENDING POWER (Ton)	121	121	187	275	187	275	187	275	187	275
STANDARD V-DIE OPENING (V)-(inch)	1,97	1,97	1,97	4,72	1,97	4,33	1,97	4,33	1,97	4,33
SHEET METAL THICKNESS (Rin-2)(mm) (R-N)	0,24	0,22	0,26	0,47	0,24	0,43	0,23	0,39	0,23	0,39
DISTANCE BETWEEN COLUMNS (B) (in)	86,6	102,4	102,4	102,4	128,0	128,0	141,7	141,7	148,8	148,8
Y RAPID SPEED (inch/s)	7,87	7,87	7,09	5,51	7,09	5,51	7,09	5,51	7,09	5,51
Y WORKING SPEED * (inch/s)	0,47	0,47	0,47	0,43	0,47	0,43	0,47	0,43	0,47	0,43
Y RETURN SPEED (inch/s)	7,48	7,48	7,48	5,31	7,48	5,31	7,48	5,31	7,48	5,31
CROWNING (STANDARD)	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized
TRAVEL IN X AXIS (inch)	31,50	31,50	31,50	31,50	31,50	31,50	31,50	31,50	31,50	31,50
SPEED OF X AXIS (inch/s)	19,69	19,69	19,69	19,69	19,69	19,69	19,69	19,69	19,69	19,69
TRAVEL IN R AXIS (inch)	9,84	9,84	9,84	9,84	9,84	9,84	9,84	9,84	9,84	9,84
SPEED OF R AXIS (inch/s)	13,78	13,78	13,78	13,78	13,78	13,78	13,78	13,78	13,78	13,78
BACKGAUGE FINGER BLOCKS	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.
NUMBER OF SHEET SUPPORT (Sliding beam)	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.
OIL CAPACITY (gallons)	2x2,38	2x2,38	2x3,96	2x5,28	2x3,96	2x5,28	2x3,96	2x5,28	2x3,96	2x5,28
MOTOR POWER (HP)	2x5,97	2x5,97	2x7,11	2x9,21	2x7,11	2x9,21	2x7,11	2x9,21	2x7,11	2x9,21
STROKE (C) - (inch)	10,83	10,83	10,83	10,83	10,83	10,83	10,83	10,83	10,83	10,83
DAYLIGHT (D) - (inch)	20,87	20,87	21,65	21,65	21,65	21,65	21,65	21,65	21,65	21,65
THROAT DEPTH (E) - (inch)	16,14	16,14	16,14	16,14	16,14	16,14	16,14	16,14	16,14	16,14
TABLE HEIGHT (F) - (inch)	35,43	35,43	35,43	35,43	35,43	35,43	35,43	35,43	35,43	35,43
TABLE WIDTH (G) - (inch)	3,54	3,54	3,54	8,66	3,54	7,87	3,54	7,87	3,54	7,87
LENGTH (L) - (inch)	147,6	167,3	167,3	179,1	192,9	200,8	200,8	202,8	207,9	209,4
HEIGHT (H) - (inch)	110,2	110,2	110,2	114,2	110,2	118,1	112,2	118,1	112,2	118,1
WIDTH (W) - (inch)	76,8	76,8	84,6	92,5	84,6	92,5	84,6	92,5	84,6	86,6
WEIGHT (lb)	16538	18302	21168	33516	24476	35501	26681	37265	27563	38588
OPTIONAL										
SPEED OF TRAVEL X1,X2 AXIS (inch/s)	19,69	19,69	19,69	19,69	19,69	19,69	19,69	19,69	19,69	19,69
SPEED OF TRAVEL R1,R2 AXIS (inch/s)	13,78	13,78	13,78	13,78	13,78	13,78	13,78	13,7	13,78	13,78
SPEED OF TRAVEL Z1,Z2 AXIS (inch/s)	39,37	39,37	39,37	39,37	39,37	39,37	39,37	39,37	39,37	39,37

* Working speed should be max. 0,39 inch / sec. at CE certified machines according to the EN12622 norm.

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DELEM DA66 T Standard Controller

General Features:

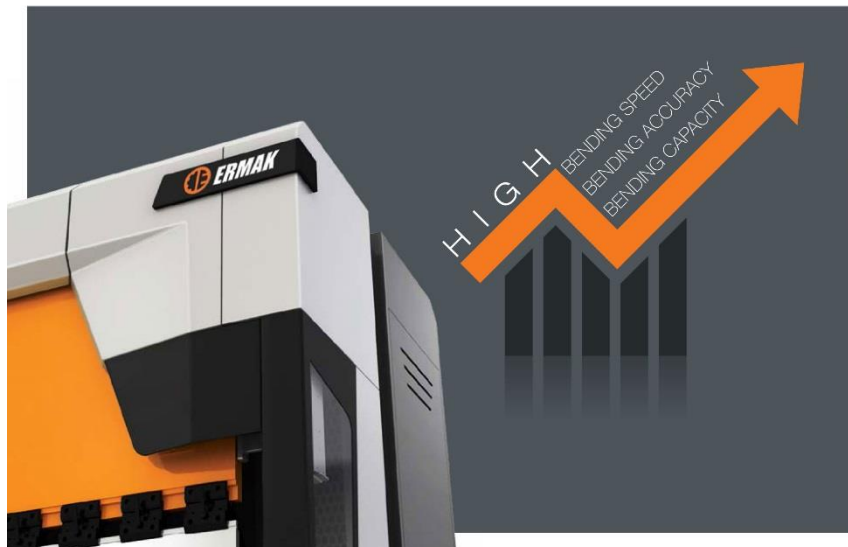
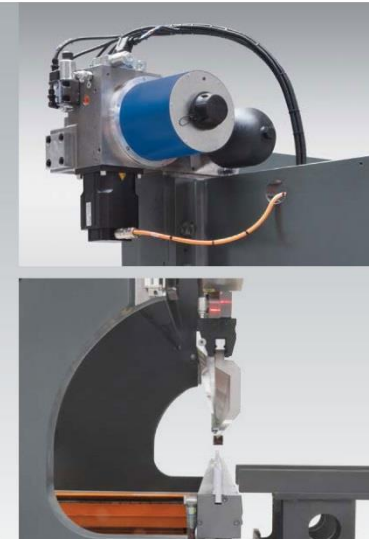
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Closed Circuit Hydraulic System

- No proportional valve.
- No hydraulic pipeline system.
- No oil leakage.
- Maintenance free.
- 2,37+2,37 gal. oil.
- 5 years oil life.

Evolution series hybrid hydraulic press brakes have the highest repeatability advantage because no heating of the oil keeps oil viscosity constant.



Hydraulic pistons in Evolution series hybrid hydraulic press brakes are driven by AC servo motors without the need of proportional directional valves. Having no positioning valves means a greater precision and less maintenance and at the same time no pressure losses occur.