



ERMAKSAN

METAL FABRICATING MACHINERY

innovative technologies.

EVOLUTION II

Hybrid Press Brake



NEW

EVO II

Hybrid Press Brake

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 require 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.

Less energy, more power...

Delem DA66T with 3D visualization,
17" touch screen control panel.

Less energy, more power;

In conventional
press brakes there is
continuous full energy
consumption but at
EVO-II series energy
consumption is 95%
less at stand-by mode.

ECO - FRIENDLY Durable Body.

The new integrated hood provides
high protection and safety.



Advantages

■ The Fastest: 20 mm/sec

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

■ The Most Accurate: 0,01 mm

The new generation Evolution series press brake has high bending accuracy between +/- 0,01 mm.

■ 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.

■ 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.

■ Bending efficiency

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

■ Quietest in its class: 63db

Noiseless (63db). The lowest noise level among its competitors. (TÜV-SÜD certified).

■ 3x longer system life time

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

■ No need to change oil for 7000 working hours

New generation press brakes are developed to require fewer oil changes. You are not required to change the oil for 7000 working hours.

■ 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 at stand-by mode.

■ Flawless bending

Provides flawless bending for small parts at different points.

■ Ease of maintenance

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



Rapid | Silent | Sensitive | Eco friendly | Energy saving

Energy Consumption

- 95% less while idle between bends.
- 50% 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.





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

Closed Circuit Hydraulic System

- No proportional valve.
- No hydraulic pipeline system.
- No oil leakage.
- Maintenance free.
- 18 lt. oil.
- 5 years oil life time.

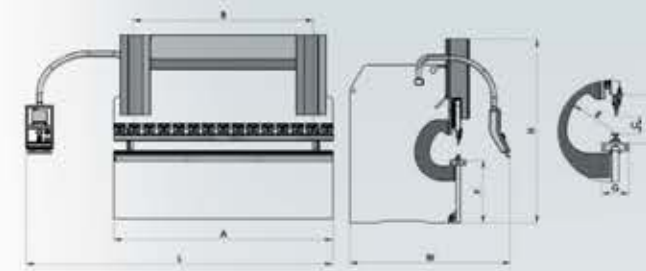
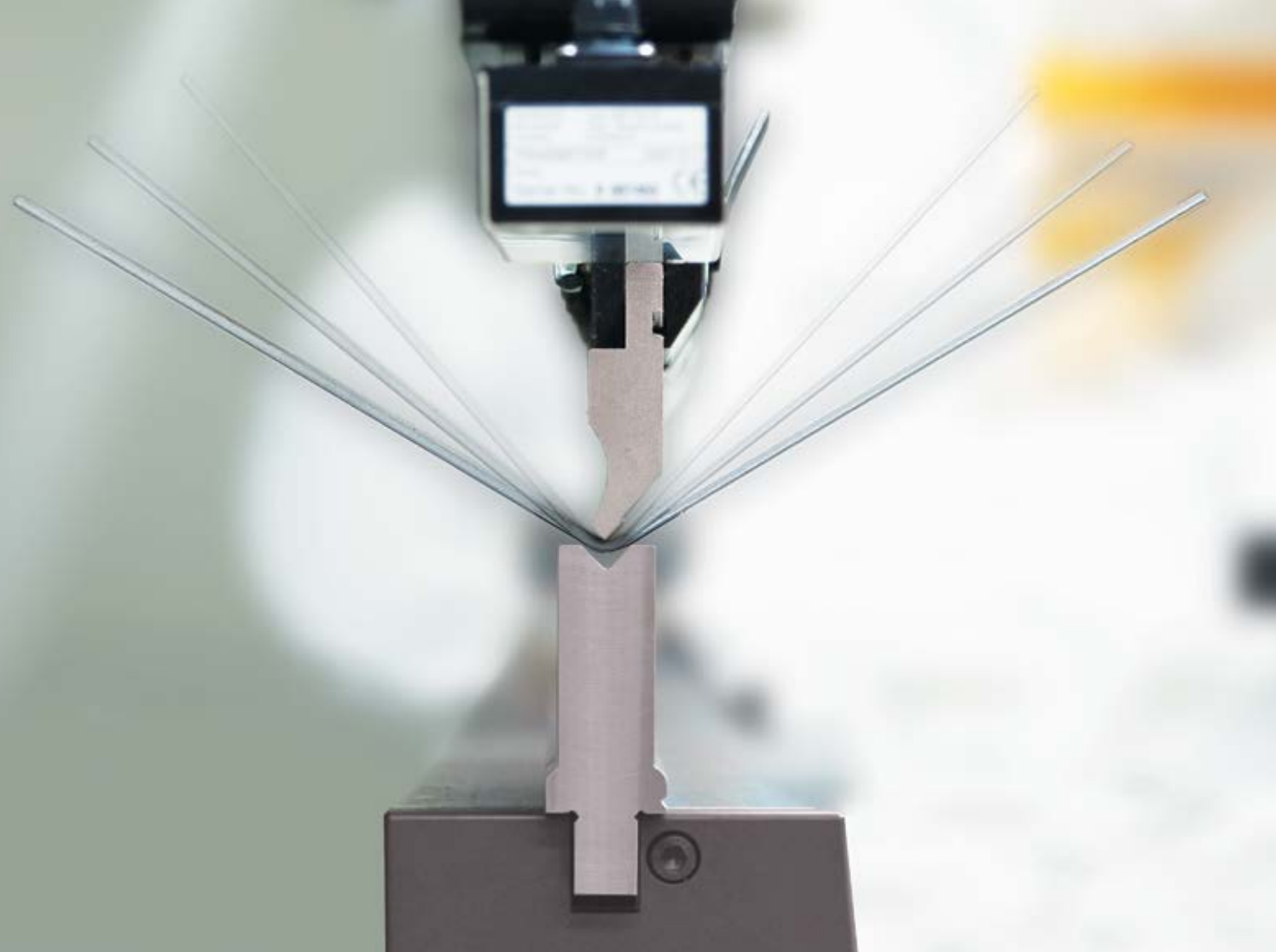
Highest repeatability advantages;

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

Hydraulic system in Evolution series:

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





Technical Features

Rolleri Tool / Clamping Systems



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.



Rol-1 KDS

Double-sided Roll 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 Promecam type tools can be inserted or removed vertically; ROL-5 clamping system eliminates difficulty of removing tools by sliding along the beam.

TYPE	2600 - 110	3100 - 110	3100 - 170	3100 - 250	3760 - 170	3760 - 250	4100 - 170	4100 - 250	4720 - 170	4270 - 250
BENDING LENGTH (A) - (mm)	2600	3100	3100	3100	3760	3760	4100	4100	4270	4270
BENDING POWER (Ton)	110	110	170	250	170	250	170	250	170	250
STANDARD V-DIE OPENING (V)-(mm)	50	50	50	120	50	110	50	110	50	110
SHEET METAL THICKNESS (Pm=42kgf/mm2) (t)-(mm)	6	6	7	12	6	11	6	10	6	10
DISTANCE BETWEEN COLUMNS (B) (mm)	2200	2600	2600	2600	3250	3250	3600	3600	3780	3780
Y RAPID SPEED (mm/s)	200	200	180	140	180	140	180	140	180	140
Y WORKING SPEED * (mm/s)	12	12	12	11	12	11	12	11	12	11
Y RETURN SPEED (mm/s)	190	190	190	135	190	135	190	135	190	135
CROWNING (STANDARD)	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized
TRAVEL IN X AXIS (mm)	800	800	800	800	800	800	800	800	800	800
SPEED OF X AXIS (mm/s)	500	500	500	500	500	500	500	500	500	500
TRAVEL IN R AXIS (mm)	250	250	250	250	250	250	250	250	250	250
SPEED OF R AXIS (mm/s)	350	350	350	350	350	350	350	350	350	350
BACKGAUGE FINGER BLOCKS	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.
NUMBER OF SHEET SUPPORT (Sliding front arms)	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.	2 Ad.
OIL CAPACITY (lt.)	18	18	30	40	30	40	30	40	30	40
STROKE (C) - (mm)	275	275	275	275	275	275	275	275	275	275
DAYLIGHT (D) - (mm)	530	530	550	550	550	550	550	550	550	550
THROAT DEPTH (E) - (mm)	410	410	410	410	410	410	410	410	410	410
TABLE HEIGHT (F) - (mm)	900	900	900	900	900	900	900	900	900	900
TABLE WIDTH (G) - (mm)	90	90	90	220	90	200	90	200	90	200
LENGTH (L) - (mm)	3750	4250	4250	4550	4900	5100	5100	5150	5280	5320
HEIGHT(H) - (mm)	2800	2800	2800	2900	2800	3000	2850	3000	2850	3000
WIDTH (W) - (mm)	1950	1950	2150	2350	2150	2350	2150	2350	2150	2250
WEIGHT (kg)	7500	8300	9600	15200	11100	16100	12100	16900	12500	17500

OPTIONAL

SPEED OF TRAVEL X1,X2 AXIS (mm/s)	500	500	500	500	500	500	500	500	500	500
SPEED OF TRAVEL R1,R2 AXIS (mm/s)	350	350	350	350	350	350	350	350	350	350
SPEED OF TRAVEL Z1,Z2 AXIS (mm/s)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

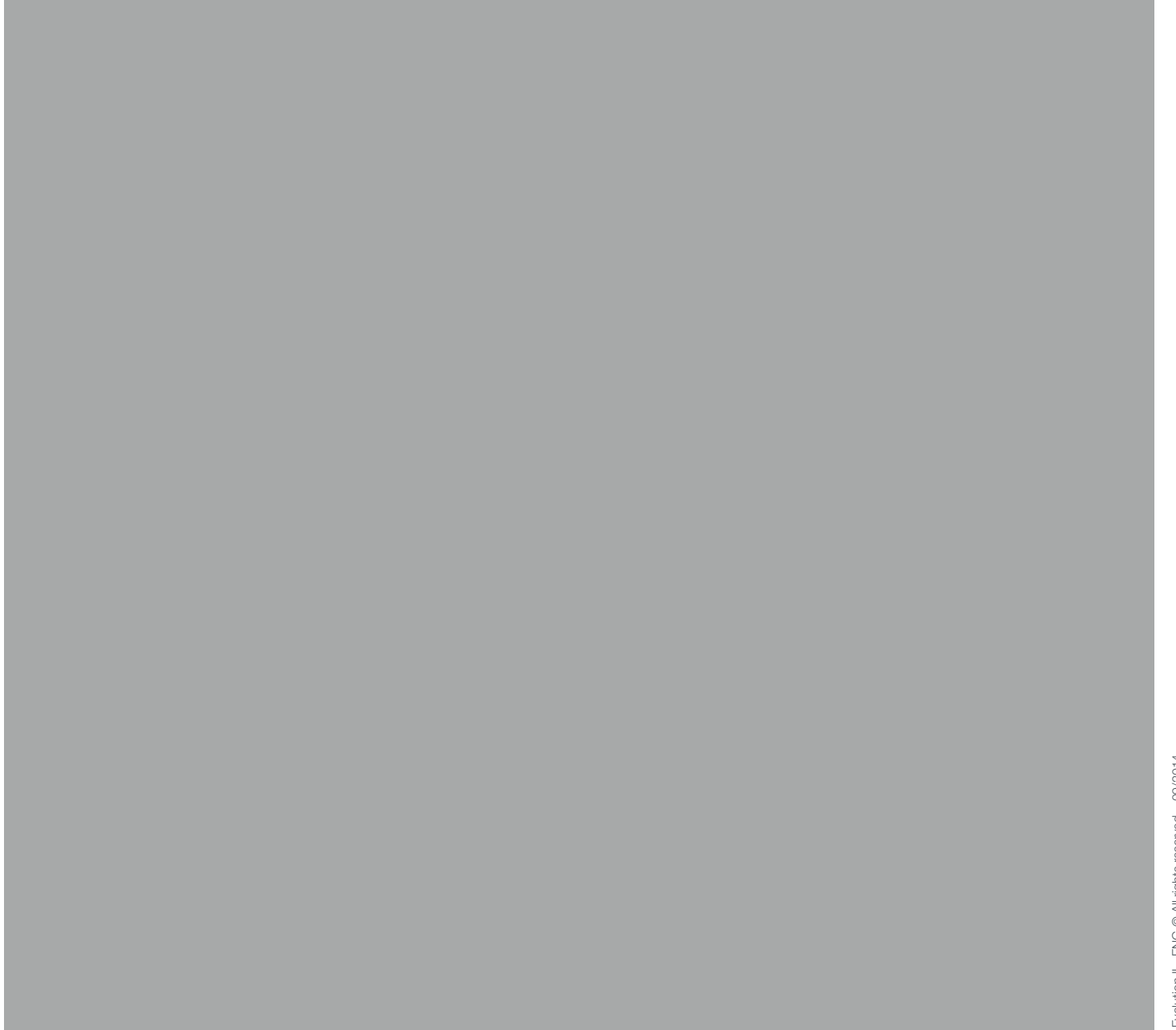
* Working speed should be max. 10 mm / sec. at CE certified machines according to the EN12622 norm. Ermaksan reserves the right to make changes on technical specs without prior notice.



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