

# ULTRA SERIES

## 4 AXIS CNC HYDRAULIC PRESS BRAKES

### GENERAL SPECIFICATIONS

Hydraulic operation with two cylinders - Assistmach

High performance hydraulic gear pump - Rexroth

High pressure filter (with clogging detector and bypass) placed before all components

Air removal filter in the reservoir

Fast descent by gravity, bending phase and return of the ram are controlled electronically via a proportional flow valves - Rexroth

Bending force controlled by proportional pressure valves - Rexroth

Quality oil with high viscosity index

Frame is designed and sized using Analyze program

Hydraulic components from leading companies worldwide (Rexroth )

Connectors and system tube sizing according to din regulations

Flanged connectors and hoses according to sae regulations

Construction of cylinders with high quality materials, hardening and very accurate finishing for the sliding surfaces

Choice of seals and sizing of the housings is a result of many years of experience

Preventive system flushing and thorough testing

We only use welded steel with high tensile strength and stiffness



High  
Capacity

Strong  
and  
Rigid Body

Low  
Service  
Cost

Fast and  
Precise  
Bending

Reliability



## FEATURES OF ULTRA SERIES

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Standard 2 axis backgauge  
Fast and high accuracy servo motors  
Resistance to crash  
Maintenance free



Precise and Robust Back Gauge system





Quick release clamping



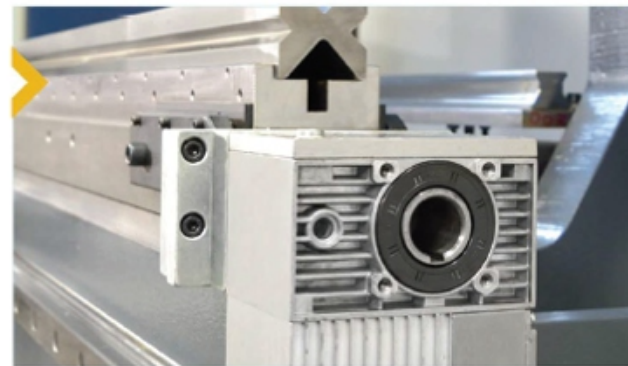
Mitsubishi Servo Motors



Front support arms with brushes are mounted on a linear guide rail system



Linear encoder - Opkon/GIVI



CNC controlled motorized crowning system - Option



CE Safety system

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

# ULTRA SERIES CONTROL UNITS

## Cybelec CybTouch 15 (Standard)



### CUSTOMER BENEFITS

Y1, Y2, X and R axes, the optional Z1 and Z2 axes, and motorized crowning are supported

15" capacitive touchscreen with glass surface

Collision detection

Bending sequence computation

## Cybelec Modeva 19T



### CUSTOMER BENEFITS

Large touchscreen with a customizable area

Comfort and power with a flat and modern design

Direct import from most CAD/CAM systems

## Delem 66 T



### CUSTOMER BENEFITS

- 2D graphical touch screen programming mode
- 17" high resolution colour TFT
- Sensor bending & correction interface

## Delem 69 T



### CUSTOMER BENEFITS

- 3D and 2D graphical touch screen programming mode
- 3D visualisation in simulation and production
- Profile-T3D offline software

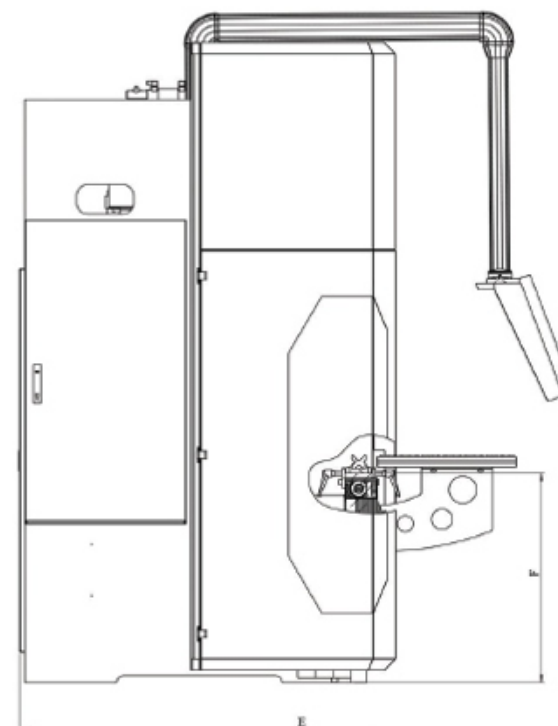
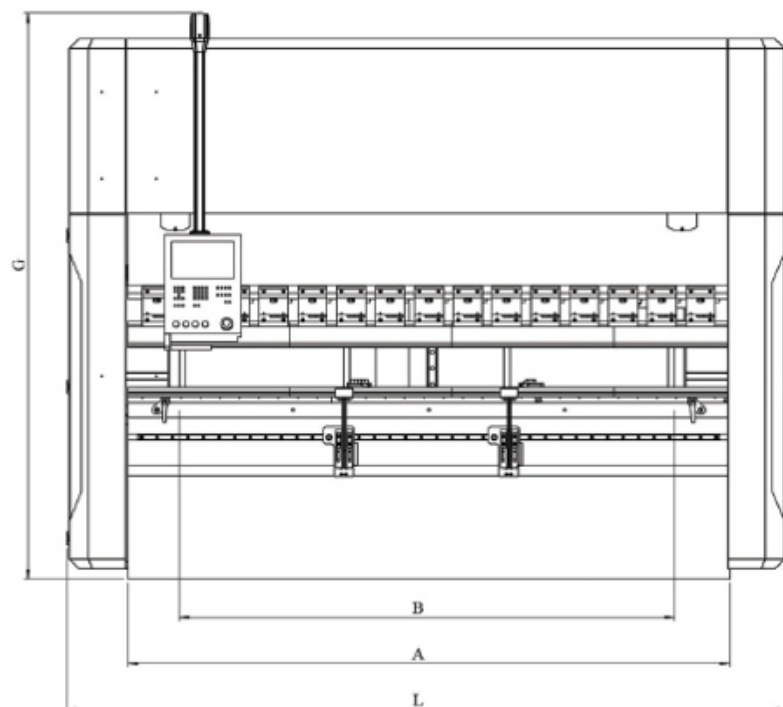
## Standard Equipments

Y1, Y2, X, R - 4- axis  
 Control Unit - Cybelec CybTouch 15 or Delem 58T  
 Non CE with manual F.AKAS FPBS (for top beam)  
 Mitsubishi servo motor back gauge & ball screw system (X-R)  
 CNC controlled motorized crowing system  
 60mm. die holder  
 Quick Release European top clamping system  
 Sliding front arms with brushes  
 Special cover design  
 Rexroth hydraulic block and valves  
 World standard electric equipments  
 LED lights on front cover

## Optional Equipments

Control unit - ModEva 19 T or Delem 66T  
 CE Manual Fiessler-FMSC-A-M and Akas LC-II-M (safeyt PLC)  
 DSP safety system + MCS (safety PLC)  
 Z1, Z2 axis  
 X1, X2 axis  
 R1, R2 axis  
 Delta X axis,  
 X axis = 1000 mm - light barrier back protection  
 Wila PRO and PREMIUM Top and Bottom clamping systems  
 AP3-AP4 sheet followers  
 Parking area  
 Central lubrication system  
 Oil cooler  
 Additional back gauge finger and sliding front support arms  
 Special packing for overseas shipments

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# ULTRA SERIES CNC HYDRAULIC PRESS BRAKES

| TYPE        | Bending Length | Bending Force | Stroke | Between Columns | Y Axis Down Speed | Y Axis Bending Speed | Y Axis Return Speed | X Axis Distance | R Axis Distance | X Axis Speed | Length                      | Width | Height | Width | Throat Depth | Table Height | Daylight | Bottom Table Dimension | Motor | Oil Tank | Weight |    |
|-------------|----------------|---------------|--------|-----------------|-------------------|----------------------|---------------------|-----------------|-----------------|--------------|-----------------------------|-------|--------|-------|--------------|--------------|----------|------------------------|-------|----------|--------|----|
|             | A              |               | I      | B               |                   |                      |                     |                 |                 |              | L                           | D     | G      | E     | H            | F            | J        | K                      |       |          |        |    |
|             | mm             | Ton           | mm     | mm              | mm/sec            | mm/sec               | mm/sec              | mm              | mm              | mm/sec       | mm                          | mm    | mm     | mm    | mm           | mm           | mm       | mm                     | mm    | kW       | lt     | kg |
|             |                |               |        |                 |                   |                      |                     |                 |                 |              | Machine Transport Dimension |       |        |       |              |              |          |                        |       |          |        |    |
| ULTRA-1260  | 1300           | 60            | 180    | 1000            | 180               | 10                   | 140                 | 650             | 250             | 350          | 2130                        | 1990  | 2375   | 2400  | 400          | 850          | 400      | 120                    | 7,5   | 100      | 3250   |    |
| ULTRA-2060  | 2100           | 60            | 270    | 1650            | 180               | 10                   | 140                 | 650             | 250             | 350          | 2830                        | 1990  | 2375   | 2400  | 450          | 850          | 550      | 120                    | 7,5   | 100      | 3750   |    |
| ULTRA-25100 | 2600           | 100           | 270    | 2100            | 180               | 10                   | 140                 | 650             | 250             | 350          | 3300                        | 1700  | 2760   | 2150  | 450          | 850          | 550      | 120                    | 11    | 200      | 6500   |    |
| ULTRA-31100 | 3100           | 100           | 270    | 2550            | 180               | 10                   | 140                 | 650             | 250             | 350          | 3760                        | 1700  | 2760   | 2150  | 450          | 850          | 550      | 120                    | 11    | 200      | 7800   |    |
| ULTRA-31135 | 3100           | 135           | 270    | 2550            | 160               | 10                   | 120                 | 650             | 250             | 350          | 3760                        | 1700  | 2760   | 2150  | 450          | 850          | 550      | 120                    | 15    | 200      | 8900   |    |
| ULTRA-31175 | 3100           | 175           | 270    | 2550            | 160               | 10                   | 120                 | 650             | 250             | 350          | 3775                        | 1825  | 2920   | 2250  | 450          | 920          | 550      | 120                    | 18,5  | 200      | 9800   |    |
| ULTRA-31220 | 3100           | 220           | 270    | 2550            | 140               | 10                   | 120                 | 650             | 250             | 350          | 3775                        | 1830  | 2960   | 2270  | 450          | 920          | 550      | 120                    | 22    | 200      | 11500  |    |
| ULTRA-31300 | 3100           | 300           | 370    | 2550            | 140               | 10                   | 100                 | 650             | 250             | 350          | 3810                        | 2050  | 3100   | 2550  | 450          | 920          | 650      | 150                    | 37    | 300      | 14500  |    |
| ULTRA-31400 | 3100           | 400           | 370    | 2550            | 100               | 10                   | 100                 | 650             | 250             | 350          | 3990                        | 2250  | 3280   | 2700  | 550          | 1030         | 650      | 150                    | 37    | 400      | 20500  |    |
| ULTRA-37175 | 3700           | 175           | 270    | 3100            | 140               | 10                   | 120                 | 650             | 250             | 350          | 4325                        | 1825  | 2920   | 2250  | 450          | 920          | 550      | 120                    | 17,5  | 200      | 12000  |    |
| ULTRA-37220 | 3700           | 220           | 270    | 3100            | 140               | 10                   | 120                 | 650             | 250             | 350          | 4325                        | 1830  | 2960   | 2270  | 450          | 920          | 550      | 120                    | 22    | 200      | 13500  |    |
| ULTRA-37300 | 3700           | 300           | 370    | 3100            | 140               | 10                   | 100                 | 650             | 250             | 350          | 4360                        | 2110  | 3150   | 2690  | 450          | 920          | 650      | 150                    | 37    | 300      | 15500  |    |
| ULTRA-41175 | 4100           | 175           | 270    | 3550            | 140               | 10                   | 120                 | 650             | 250             | 350          | 4675                        | 1825  | 2920   | 2250  | 450          | 920          | 550      | 120                    | 18,5  | 200      | 13000  |    |
| ULTRA-41220 | 4100           | 220           | 270    | 3550            | 140               | 10                   | 100                 | 650             | 250             | 350          | 4675                        | 1830  | 2960   | 2270  | 450          | 920          | 550      | 120                    | 22    | 200      | 14500  |    |
| ULTRA-41300 | 4100           | 300           | 370    | 3550            | 120               | 10                   | 100                 | 650             | 250             | 350          | 4710                        | 2050  | 3100   | 2550  | 450          | 920          | 650      | 150                    | 37    | 300      | 18000  |    |
| ULTRA-41400 | 4100           | 400           | 370    | 3550            | 100               | 10                   | 80                  | 650             | 250             | 350          | 4990                        | 2250  | 3280   | 2700  | 550          | 1030         | 650      | 150                    | 37    | 400      | 23000  |    |
| ULTRA-61220 | 6100           | 200           | 270    | 5100            | 120               | 10                   | 100                 | 650             | 250             | 350          | 6675                        | 1850  | 2960   | 2250  | 450          | 1050         | 550      | 120                    | 22    | 200      | 21000  |    |
| ULTRA-61300 | 6100           | 300           | 370    | 5100            | 100               | 10                   | 100                 | 650             | 250             | 350          | 6675                        | 2050  | 3100   | 2550  | 450          | 920          | 650      | 150                    | 37    | 300      | 25500  |    |
| ULTRA-61400 | 6100           | 400           | 370    | 5100            | 100               | 10                   | 80                  | 650             | 250             | 350          | 6660                        | 2250  | 3280   | 2700  | 550          | 1030         | 650      | 150                    | 37    | 400      | 31000  |    |
| ULTRA-61500 | 6100           | 500           | 370    | 5100            | 100               | 10                   | 80                  | 650             | 250             | 350          | 6680                        | 2300  | 3350   | 2850  | 550          | 1070         | 650      | 150                    | 37    | 400      | 34000  |    |
| ULTRA-61600 | 6100           | 600           | 370    | 5100            | 80                | 10                   | 80                  | 650             | 250             | 350          | 6720                        | 2650  | 5100   | 3780  | 550          | 2230         | 650      | 150                    | 45    | 500      | 53000  |    |