



**PRESSES**

MECHANICAL • HYDRAULIC • SERVO

## *CNC Hydraulic Press Brake*

50T - 800T



Accuracy conform to:  
DIN 55222

**Machine Builders to the World**

ISO 9001:2015

**Precision with Versatility • High Reliability • Service Support**



CNC Hydraulic Press Brake

**5000<sup>+</sup>** Presses **70<sup>+</sup>** Press Lines **100<sup>+</sup>** Transfer Presses  
Across **26** Countries

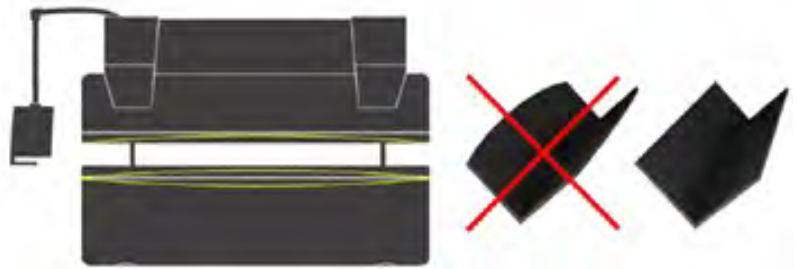
Isgec Heavy Engineering Ltd. is India's largest manufacturer and solution provider for Sheet Metal Forming Presses, since 1967. With its long experience and vision of engineering for excellence, Isgec offers High Precision CNC Hydraulic Press Brakes.

## Salient Features:

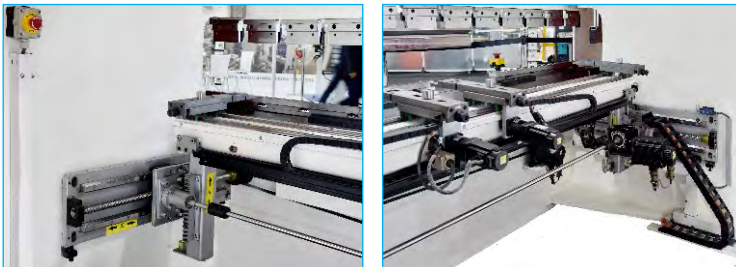
### Crowning System



- Fixed Table is a standard feature.
- Manual and Automatic Crowning is an optional feature.



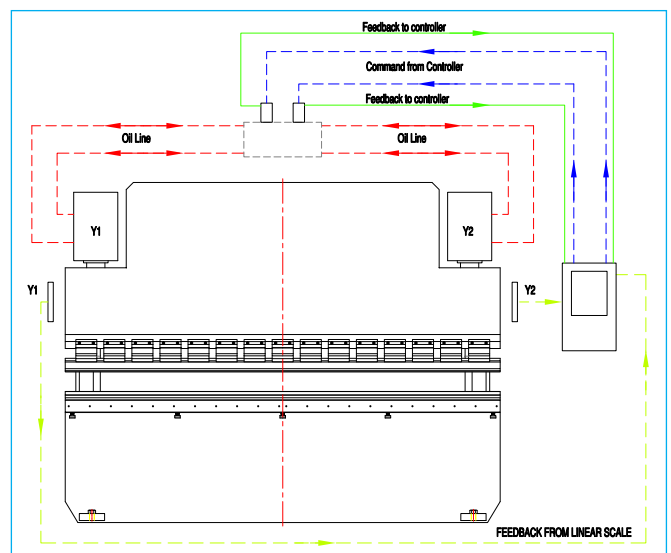
### Precise 4 Axis Backgauge System



- The Fast positioning speeds provides accurate positioning of  $\pm 0.01$  mm.
- Servo Controlled X Axis ensures a positioning accuracy of  $\pm 0.1$  mm with 100% repeatability.
- Z Axis Manual Backgauge System is a standard feature and Z Axis Servo Backgauge System is optional.
- R Axis Manual Backgauge System is a standard feature and R Axis Servo Backgauge System is optional.
- Backgauge two fingers are provided.

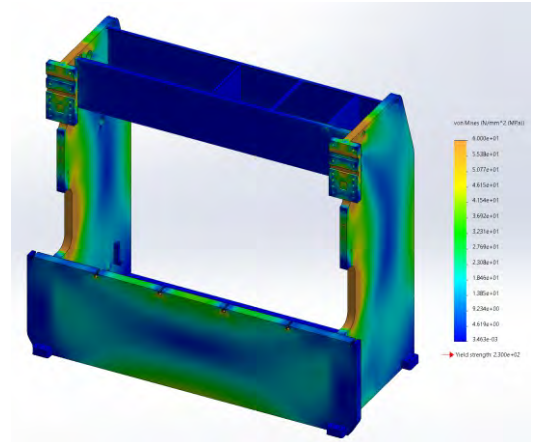
### Servo Closed Loop Hydraulic System

- Two high resolution linear scales are provided to maintain the press beam positioning upto  $\pm 0.01$  mm.



## High Rigidity

- Main Frame fabricated from tested steel plates and stress relieved to ensure uniform stress distribution, better stability and long lasting performance.
- Finite Element Analysis Software used to verify fatigue life of stress relieved Press structure and to enable maximum rigidity.
- Y1-Y2 beam tilting provision of upper press beam upto  $\pm 10$ mm.



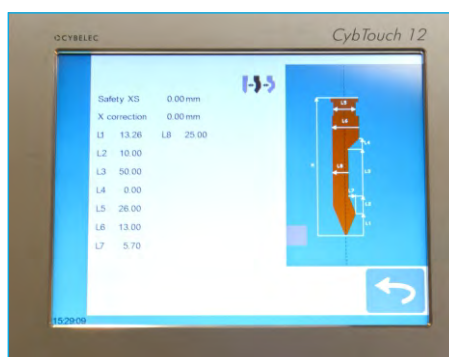
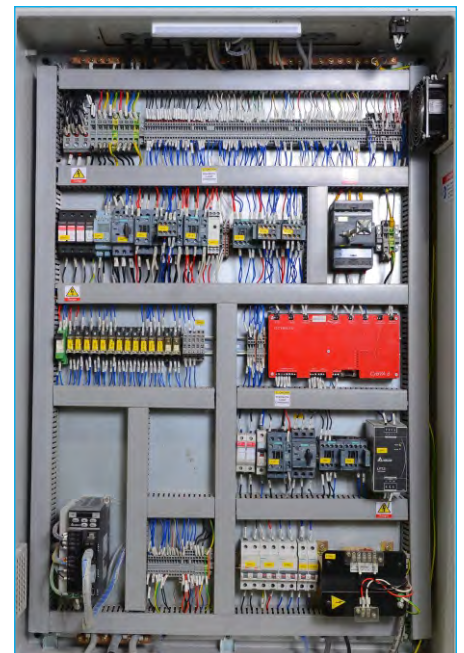
## CNC Controller

### Hardware Features

- Cybelelec Make CYBTOUCH 12PS Model with 12" TFT display
- 2 GB Micro SD Card with firmware update via RF Link
- USB Port - 1 No.
- 1 Serial Port
- Electrical Panel, User Friendly Interface

### Software Features

- Saves the data for 300 programs, 100 Punch & 100 Die Data Store
- Interactive 2D Graphic Editor
- Programming with 2D representation
- 24 Sequences per Program
- Real-time Programming for Bending and Pressure Allowance Calculation
- Automatic Calculation of the Bend Depth, Back Gauge Position, Crowning Position, Correction of Bend Angle and Back Gauge.
- Advance Information / Warning for Hydraulic Oil change time



# SERVICE NETWORK

AHMEDABAD • BAWAL • BANGALORE • CHENNAI • DELHI  
GURGAON • KOLKATA • MUMBAI • NOIDA • PUNE • YAMUNANAGAR

## Technical Specifications

Model	Unit	50T		80T		110T		160T		220T		260T		340T			400T			500T		630T		800T				
Capacity	kN	500	500	800	800	1100	1100	1600	1600	2200	2200	2600	2600	2600	2600	3400	3400	3400	4000	4000	4000	5000	5000	5000	6300	6300	8000	8000
Power	kW	5.5	5.5	7.5	7.5	11	11	15	15	18.5	18.5	22	22	22	22	30	30	30	37	37	37	37	37	37	55	55	55	55
Number of Cylinders	Nos.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Stroke Length	mm	150	150	150	150	200	200	200	200	250	250	250	250	250	250	250	250	300	300	300	375	375	375	325	325	325	325	
Lowering Speed	mm/sec	100	100	100	100	100	100	100	100	100	100	100	100	100	80	80	80	90	90	90	75	75	75	50	50	50	50	
Pressing Speed	mm/sec	10.5	10.5	10.5	10.5	9.5	9.5	9.5	9.5	9	9	9	9	9	9	9	9	9	9	9	8.5	8.5	8.5	8.5	8.5	5.5	5.5	
Return Speed	mm/sec	80	80	80	80	80	80	80	80	70	70	90	90	90	100	100	100	80	80	80	80	80	80	40	40	40	40	
Max. Working Length	mm	1600	2100	2600	3100	3100	4300	3100	4300	3600	5200	3100	4300	5200	3100	4300	5200	3100	4300	5200	3100	4300	5200	5200	6200	5200	6200	
Distance Between Columns	mm	1200	1600	2100	2600	2600	3700	2600	3700	3020	4300	2600	3700	4300	2600	3700	4300	2600	3700	4300	2600	3700	4300	4300	5100	4300	5100	
Daylight Opening	mm	315	315	375	375	385	385	450	450	500	500	500	500	500	500	500	500	550	550	550	560	560	560	625	625	625	625	
Throat Depth	mm	250	250	250	250	300	300	320	320	320	320	320	320	320	320	320	320	350	350	350	400	400	400	400	400	400	400	

### Standard Accessories

- CNC AC Servo Back Gauge X-axis
- Manual R & Z axis Back Gauge
- Cybelelec Touch Screen Controller model no. 12PS
- Quick release one sided Clamping Arrangement
- Photoelectric Guards at rear end
- 2 nos. Back Gauge Fingers
- Foot Pedal Control with Safety Switch

### Optional Accessories

- Front sheet support on LM guides
- CNC Back Gauge axis R & Z
- Automatic/Manual Anti-Deflection system
- Fixed Type Safety Guards on both sides
- Tooling (Die & Punch)
- Laser Safety Sensor at Punch
- Quick release Double Sided Clamping Arrangement
- 3D Visualisation & Simulation in CNC Controller - Cybelelec / Delem / Esa
- Wireless Connection with PC / Notebook
- Compliance with CE/OSHA Safety regulations provided on demand
- VFD (Variable Frequency Drive) for Energy Saving



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Poland • Russia • South Africa • Spain • Thailand • Turkey • USA • Vietnam

Some of the accessories / fitments shown in the reference photograph may not be part of Standard equipment supplied.  
Isgec reserves the right to change specifications without prior notice.  
Details given in this Brochure are indicative & may change.