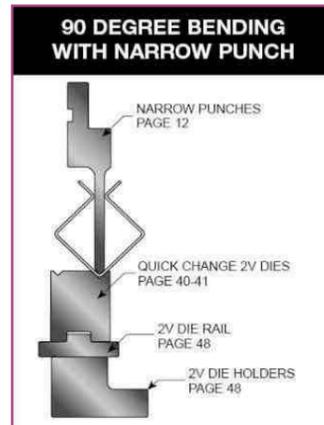
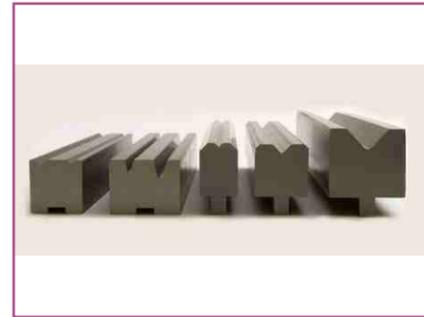
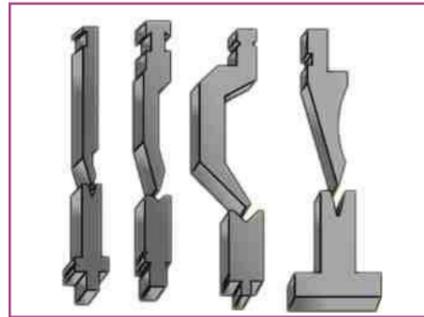
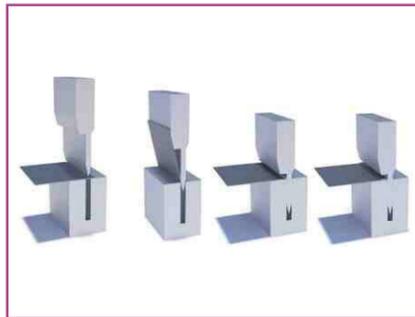


**CKW PRESS BRAKE TOOLINGS**



The Complete Range of Solution

**CHAMUNDA ENGINEERING WORKS**

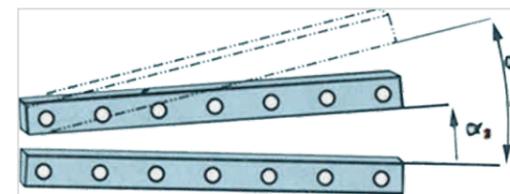
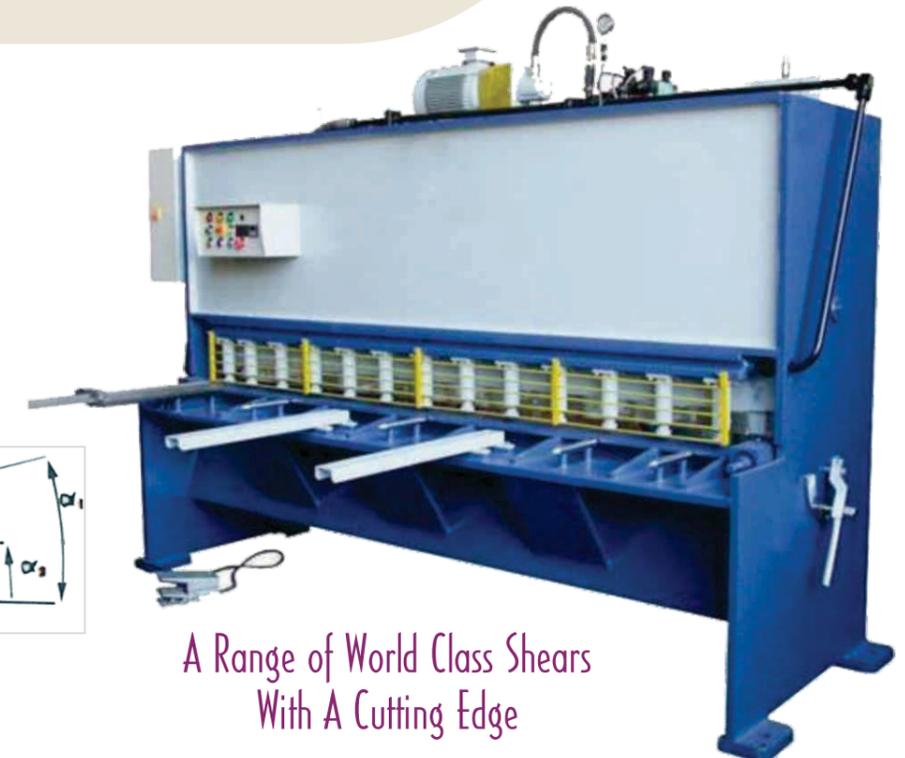
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A Range of World Class Press Brakes



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A Range of World Class Shears With A Cutting Edge

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## CHAMUNDA HYDRAULIC PRESS BRAKE



**RANGE : 20 MT TO 400 MT**  
**LENGTH : 1250 mm to 4000 mm**

### SALIENT FEATURES :-

- Suitable for complex job bending
- Quick changeover for sample production & mass production
- 7" color touch screen LCD for easy data entry
- Two axis automatic control - bending degree (Y Axis) & Back gauge (X-Axis) program

### NC VALUE ADDITION :-



Optional Cyb touch 6-touch screen two axis controller from Cybelec - Switzerland

### THE DETAILED TECHNICAL FEATURES

- ▶ Bend angle programming method
- ▶ Direct bending degree entry as per job drawing
- ▶ Depth Mode degree program is also available
- ▶ The bending edge dimensions can be programmed as per individual bends
- ▶ Inside & out side edge dimensions can be defined in the program
- ▶ Automatic Bending degree with correction factor for each bend
- ▶ Automatic back gauge positions with correction factor for each bend
- ▶ Optional hardened tools & Manual / Automatic crowning
- ▶ The programs can be back-up by wireless connection to PC



Highly precise 5 micron press brake scale for y-axis positioning



High-speed back gauge with AC Servo Drive, Ball Screw, LM Guides & Timer belt.



Optional hardened & grounded multi-Vdie punch with quick release clamps.

### SALIENT FEATURES

- ▶ The stable robust welded steel Frame made of ultrasonically and Tensile cested IS 2062 plate as per guidelines of IMTMA standards.
- ▶ Fast approach & fast return speed to save cycle time, slow pressing speed for better stroke control & bending accuracy, ensures high productivity
- ▶ Repeatability for ram position +0.05mm
- ▶ Compact cylinders & low pressure system due to rear cylinders. Also it gives better rigidity & load carrying capacity against fatigue failure
- ▶ Positive synchronisation of cylinders with welded torque tube gives better bending accuracy on both ends
- ▶ Moving work station with manual, single cycle & automatic mode for easy operation with emergency stop button
- ▶ NC upgradation possible on site
- ▶ All electrical & hydraulic component from reputed make
- ▶ Hydraulic cylinders made from seamiess honed tube, hardened & grounded chrome plated piston rod fitted with twin type zero leak PU seals
- ▶ Suitable for upgradation with special optional features

## CHAMUNDA NC HYDRAULIC PRESS BRAKE

- Repeatably precise back gauge accuracy 0.1mm
- Wireless program data transfer between PC & controller
- Optional force control module
- Multiple bends with different back gauge positions can be programmed

## CHAMUNDA HYDRAULIC SHEARING MACHINE



**RANGE : 2 mm to 25 mm**  
**LENGTH : 1250 mm to 4000 mm**

### SALIENT FEATURES

- Guillotine type hydraulically variable rake angle Design
- Twist free & better cutting result in thin sheets at lower rake angle.
- Cutting job accuracy as per DIN Standard
- Higher cutting capacity than rated capacity at higher rake angle
- The stable & robust structure from ultrasonically & tensile tested IS 2062 Grade steel
- Rigid box type structure of ram & table with inclined member in direction of resultant force
- Hydraulic & electrical safety interlocks for overloading
- NC up-gradation possible
- Bolted type I Box assembly for holding cylinder mounting
- Special guided seal for holding cylinder to avoid leakage.
- All electricals & hydraulic component from reputed make
- Ram guided by six hardened & grounded guide rollers
- Suitable for upgradation with special optional features

## CHAMUNDA NC HYDRAULIC SHEARING MACHINE

### NC VALUE ADDITION :-

#### BACK GAUGE FEATURES :

The Machines are supplied with easy to use Single Axis NC (Numerically Controlled) Heavy duty Back Gauge (Range 760MM) with PLC based controller which has been developed based on years of manufacturing experience. The epasis is o speed, accrac and repeatability. The general characteristics of the controller are Programming of axis position (mm), position correction, step repetition - 12 Steps, each step can be repeated 999 times, Alpha - numeric LCD 2x16 display, Protection against miscounting.

The Back Gauge consists of two nos, Lead Screws (Ball Screws, available on request at extra cost), high resolution Rotary Encoder, Chian Drive, Clutch Brake Combination Unit and Gauge Bar as shown below.



### NC OPTIONAL VALUE ADDITION :-

- 7" Touch screen shear controller from cybelec / Delem
- AC Servo drive from Schneider / Panasonic for back gauge movement
- High-speed back gauge assembly with ball screw & Timer Belt
- Repeated position accuracy in 0.1mm

- User friendly colour LCD Screen for easy programming
- Multiple back-gauge position with stroke counting on screen
- Automatic Rake angle adjustment on screen
- Automatic Stroke length control on screen



◀ 4 Cyb Touch 6 - Cybelec

DAC-310-Delem ▶

