

CNC Plate Punching Machines



Specifications

CNC Plate Punching, Marking and Drilling Machine

Plate	
Material	Mild steel (UTS 410 N/mm ²)
Minimum size (LR x FB)	100 mm x 100 mm
Maximum size (LR x FB)	1200 mm x 800 mm
Maximum thickness for punching	16 mm
Maximum thickness for drilling	60 mm

Axis Movement	
X-axis travel (LR)	1000 mm
Y-axis travel (FB)	800 mm
X and Y-axes speed	250 mm/s
Servo motor and drive	AC servo

Marking Unit	
Maximum capacity	100 kN
Marking unit drive	Rotary type driven by servo motor
Maximum characters possible	38 nos.
Maximum character size	16 mm x 10 mm

Punching Unit	
Punching stations	2 nos.
Maximum tonnage	800 kN
Maximum punch diameter	26 mm
Positional accuracy	± 0.5 mm

Drilling Unit	
Maximum drill diameter	40 mm
Spindle motor	Induction motor
Drilling speed	180 to 3000 rpm
Drilling tool holder	Automatic tool holder with 6 tool adapter pocket
Z-axis	AC servo motor and drive

Controls and Power	
Machine control	Electropneumatics make CNC having Windows operating system with 12.1" colour LCD touch screen monitor
Total connected load	29 kW (approx.)

CNC Angle Marking and Drilling Machines

Specifications

CNC Angle Marking and Drilling Machines

Type	Twin drilling with 6 position tool changer
CNC axes accuracy	±0.5 mm

Angle	
Material	Mild steel (UTS 510 N/mm ²)
Minimum angle size	60 mm x 60 mm x 6 mm
Maximum angle size	250 mm x 250 mm x 40 mm
Maximum angle length	13500 mm

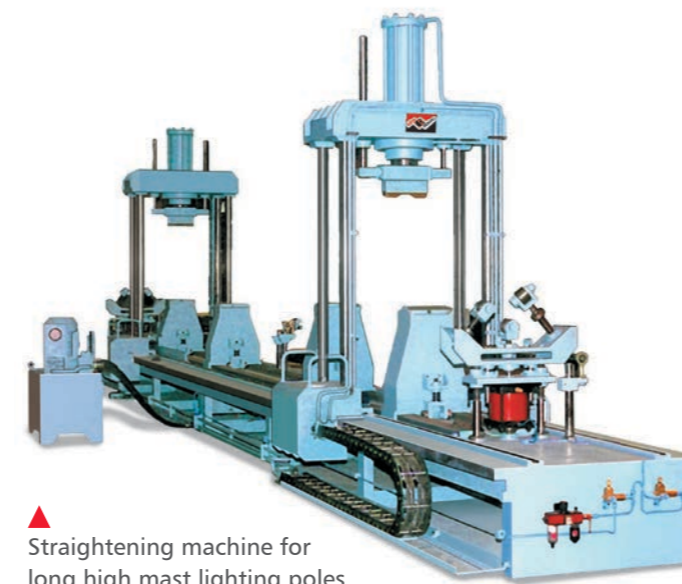
Marking Unit	
Type	Rotary
Maximum capacity	80 kN
Marking unit type	Driven by servo motor
Marking characters	38 nos.
Maximum character size	16 mm x 10 mm

Drilling Unit (Y-axis, Z-axis)	
Maximum hole diameter	40 mm
No. of holes per flange	1 no.
Drill head feed	AC servo using ball screw

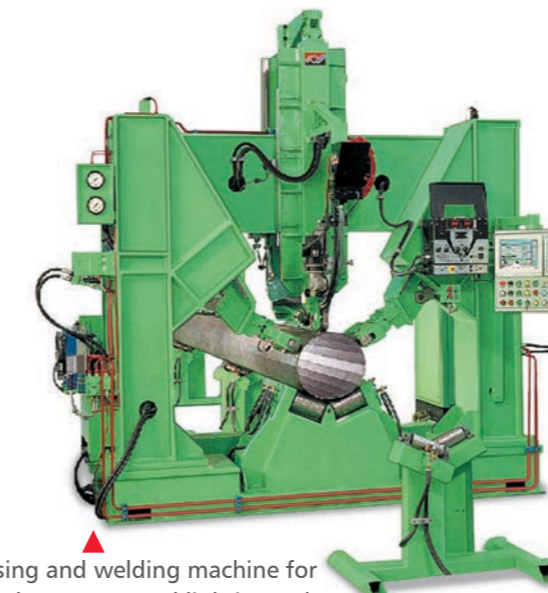
Angle Feeding Unit (X-axis)	
Mechanism	Pincher type gripper with moving trolley on LM guide, rack and pinion
Maximum trolley speed	1000 mm/s
Maximum movement length	14000 mm

Out-feed Conveyor	
Length	8000 mm
Type	Idle roller
Angle tilting	By 3 nos. hydraulic cylinder

Controls and Power	
Machine control	Electropneumatics make CNC having Windows operating system 12.1" colour LCD touch screen monitor
Total connected load	34 kW (approx.)



▲ Straightening machine for long high mast lighting poles



▲ Closing and welding machine for 12m long octagonal lighting poles

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Forming Tomorrow. Today!



Power and Transmission Tower Line Equipment

Electropneumatics & Hydraulics (India) Pvt. Ltd.

Machine Manufacturing Division

CNC Angle Marking, Punching and Cropping Machines

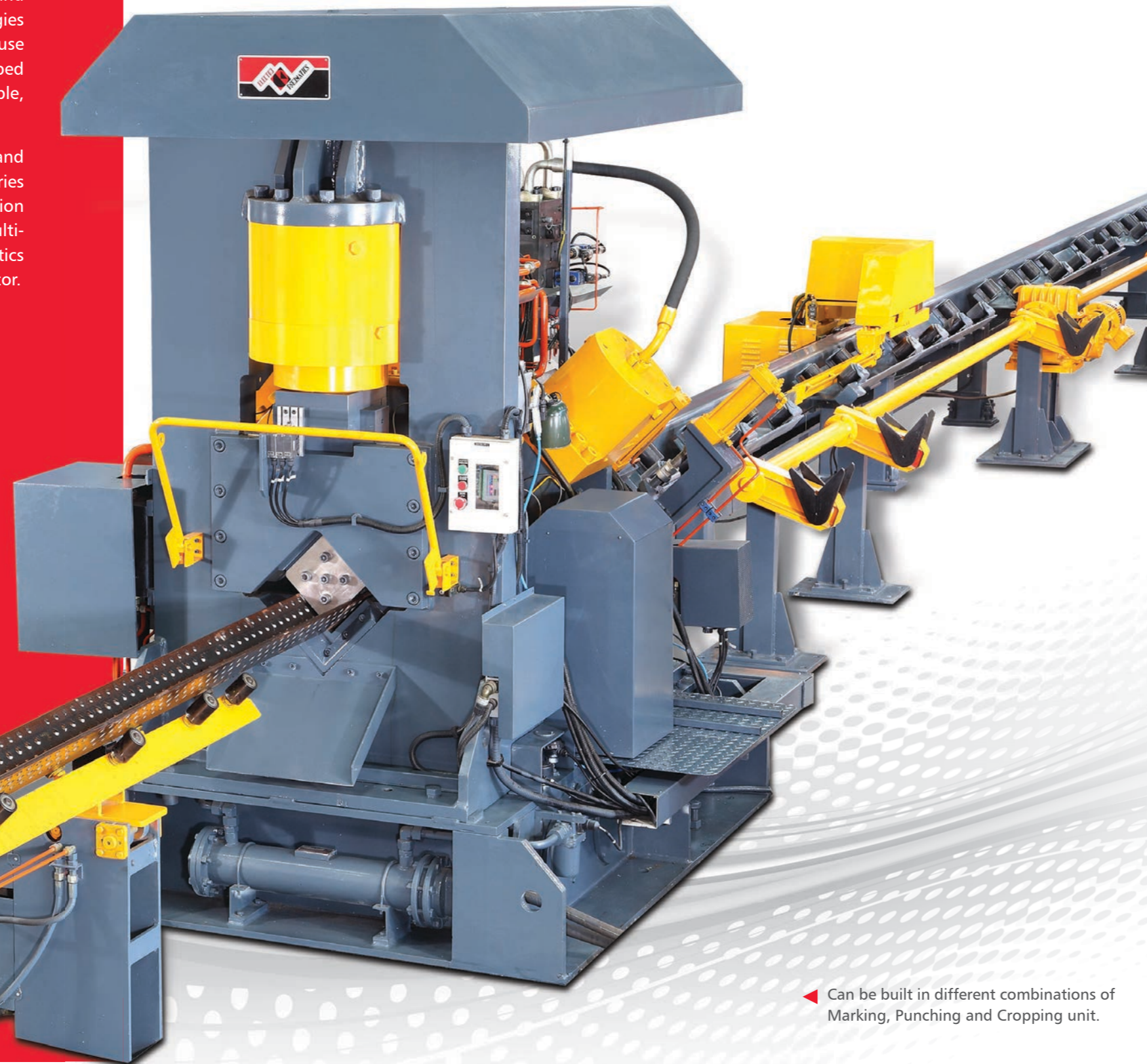
Electropneumatics Power and Transmission Tower Line Equipment

Electropneumatics has been designing and building metal forming machines for more than 40 years and is a leader in this segment in India. The product range encompasses hydraulic presses, tube benders, servo electric presses, powder compacting presses and many more products built to customer specification. Pioneer in several technologies in India, recipient of many forming technology awards, 100% indigenous, in-house mechanical, hydraulics, electrical, electronics and software technology, a well-equipped design and manufacturing set-up and ISO 9001 compliance make us a suitable, cost-effective option for your forming needs.

Electropneumatics' range of products specifically for processing angles, plates and sections for the electrical, power transmission, construction and fabrication industries are high speed workhorses, designed to keep pace with the large production requirements and increasing growth of these industries. They are well proven for multi-million continuous production cycles. Besides the standard machines, Electropneumatics designs and builds machines tailored to customer specific requirements of this sector.

Some of the products

- CNC Angle Marking, Punching & Cropping Machines
- CNC Plate Punching, Marking & Drilling Machines
- CNC Plate Punching Machines
- CNC Angle Marking & Drilling Machines
- CNC Pole Closing & Welding Machines
- Pole Straightening Machines
- Standalone Presses for Marking, Punching, Notching, Bending & Cropping



◀ Can be built in different combinations of Marking, Punching and Cropping unit.

Features

- Automatic loading of angles up to 13.5 m
- Smooth automatic feeding of angles with in-feed roller conveyor
- Servo motor driven trolley with pneumatic gripper to firmly position the angles
- Automatic angle length measurement
- Automatic marking arrangement
- Precise and automatic punching of holes at predetermined locations
- Automatic cropping of angles at any desired length
- Out-feed conveyor capable of handling angles up to 8 m length with automatic hydraulic tilting arrangement
- CNC controls with Windows operating system and colour touch screen 12.1" LCD monitor
- Energy saving servo hybrid pump version, available as option

Specifications

CNC Angle Marking, Punching and Cropping Machine

Type	Twin punching
CNC axes accuracy	± 0.5 mm

Angle	
Material	Mild steel (UTS 410 to 610 N/mm ²)
Minimum angle size	40 mm x 40 mm x 4 mm
Maximum angle size	150 mm x 150 mm x 16 mm
Maximum angle length	13500 mm

Marking Unit	
Maximum capacity	100 kN
Marking unit drive	Rotary type driven by servo motor
Maximum characters possible	38 nos.
Maximum character size	16 mm x 10 mm

Punching Unit (Y-axis, Z-axis)	
Maximum tonnage	800 kN
Maximum hole diameter	32 mm for UTS 410 N/mm ² 26 mm for UTS 510 N/mm ²
Punching head drive	Electric AC servo drives and motors
Punching head motion	AC servo using ball screw

Cropping Unit	
Maximum capacity	2800 kN
Type	Single shear
Cropping tool	01 no. with shearing blade

Angle Loader	
Loading system	Rotary motorised through reduction gear box

Feeding Unit (X-axis)	
Mechanism	Gripper with moving trolley on LM guide, rack and pinion
Carriage drive	Electric AC servo drive and motor
Maximum trolley speed	1300 mm/s

In-feed Conveyor	
Length	13500 mm
Type	Idle roller
Gripper (pincher)	Operated through auxiliary pneumatic cylinder

Out-feed Conveyor	
Length	8000 mm
Type	Idle roller
Angle ejection	Tilting by hydraulic cylinder

Controls and Power	
Machine control	Electropneumatics make CNC with Windows operating system and 12.1" colour LCD touch screen monitor
Total connected load	27 kW (approx.)