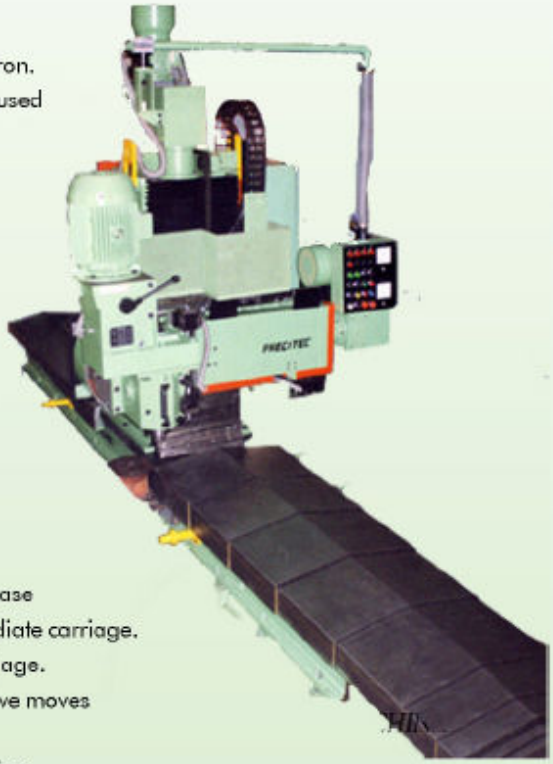
EDGE MILLING MACHINE

PRECITEC EDGE MILLING MACHINE

SALIENT FEATURES INCLUDE



- The machine is developed for edge preparation of Shell tubes of various radi.
- The salient featurers are :
- Base and Carriage are made out of high grade alloy cast iron.
- Guide rails ball type runner blocks, ball screw and nut are used for precise control of movement of 'x' axis carriage.
- The drive for 'x' axis carriage in from invertor controlled infinetly variable speed AC motor and reduction gear box.
- High grade alloy cast iron column is mounted on base carriage.
- On column an intermediate carriage reciprocates in vertical direction over hardened and ground precise guideways.
- The intermediate carriage vertical movement is from invertor controlled AC motor drive with infinetly variable Speed through a reduction device, feed screw and nut.
- Graded cast Iron Ram moves over hardened and ground guideways, with turcyte lining in an axis perpendicular to base and column movement and vertical movement of intermediate carriage.
- The drive to ram is transmitted from a nut fixed to ram carriage. Feed Screw drivers from a invertor controlled AC Motor drive moves The nut fixed to the ram carriage.
- An indexing device to tilt the ram to required angular position.
- Scales and clamping device to index the ram and clamp it.
- The spindle is supported in a quill by two precision taper roller bearing in front and one Cylindrical roller bearing at rear.
- Rack and pinion assisted movement to quill with spindle in and out of spindle housing.
- Both Coarse of fine feed movements of quill and its locking once adjusted is provided.
- The drive to spindle is from an infinetly variable invertor driven AC Motor through a gear box.
- A change gear leves provides 2 speed ranges.
- A counter weight system located inside the column is used to compensate the weight of ram, intermediate table milling head.
- Centralised lubrication is provided for lubrication, ball screw & nut feed screw & nut, guideways for ram and column.
- Well planned hydraulic clamping system for all slide movements except those in use is provided.
- Automatic cycle control with PLC.
- Electrical Cabinet & Hydraulics are located at convenient positions.
- Custom built completely tooled up system including job loading and unloading to suit particular job or family of jobs supplied on request.

SPINDLE DETAILS

Power KW	15
Motor type	AC
Spindle speed RPM 2 range through lever	LOW: 75,160,320 HIGH: 250,500,1000
Spindle nose type	ISO 50

FEED RATE

Quill movement	0.05 mm/div
Carriage feed rate X, Y, Z axes	20-600 mm/min
Carriage stroke X-axis Y-axis Z-axis	 4000 mm 700 mm 400 mm