

EPM V

EDGE POLISHING MACHINE

This is an accurate and automatic machine for polishing of flat edges by stacking the slabs horizontally, one over the other and using a horizontally mounted oscillating head. Several stacks of monuments are set on a platform parallel to the movement of the oscillating head and the machine reciprocates across the width of one or more stacks of slabs/monuments at a time, as per the setting.

How it works

Basic construction

Twin rails of length 5 Mtrs/ (16 ft.). Main spindle with drive and rocking head for automatic grinding and polishing of edges of stacks of monuments upto 400 mm height.

Galvanised Heavy steel frame, for mounting over concrete platform.

Motorised movement of the machine on rails, with rack-and-pinion drive, controlled by variable frequency drive.

Spindle for polishing head driven by 15HP motor.

Six abrasive oil filled oscillating head, for grinding and polishing with pneumatic pressure control.

A set of non-contact proximity switches for automatic motions.

Control Panel Cabinet.

Microprocessor for compact, flexible and multiple choice of automatic operations, including C.P.U., memory cartridge, I/O modules, software counters and timers, sequence control, built-in power supply, input filter delay, memory backup.

Centralised oil lubrication system for lubrication of strategic points with measured quantity of oil, with necessary safety and alarms.

Long life, braided, reinforced PVC hoses for water & pneumatic supply.

Foundation bolts.

Special features

Main spindle of hardened and ground nickel-chrome steel.

Pre- and oversized taper roller bearings with precision tolerances, for accurate and vibration-free rotation of spindle.

Centralised oil lubrication to more than 10 points.

Grease lubrication system for main spindle.

Heavy clamping for vibration-free operation.

Travel motor of machine controlled by variable frequency drive for smooth movement and reversal.

Reinforced rexine bellows on spindle assembly to protect components from water and dust.

Automatic programmable operation for high production, and reduction of operator failure.

Special anti corrosive polyurethane paint.

Safety features

Limit switches to prevent over travel.

Overload relays for all motors.

Quick withdrawal of polishing head in case of power failure and motor stoppage.

Technical data

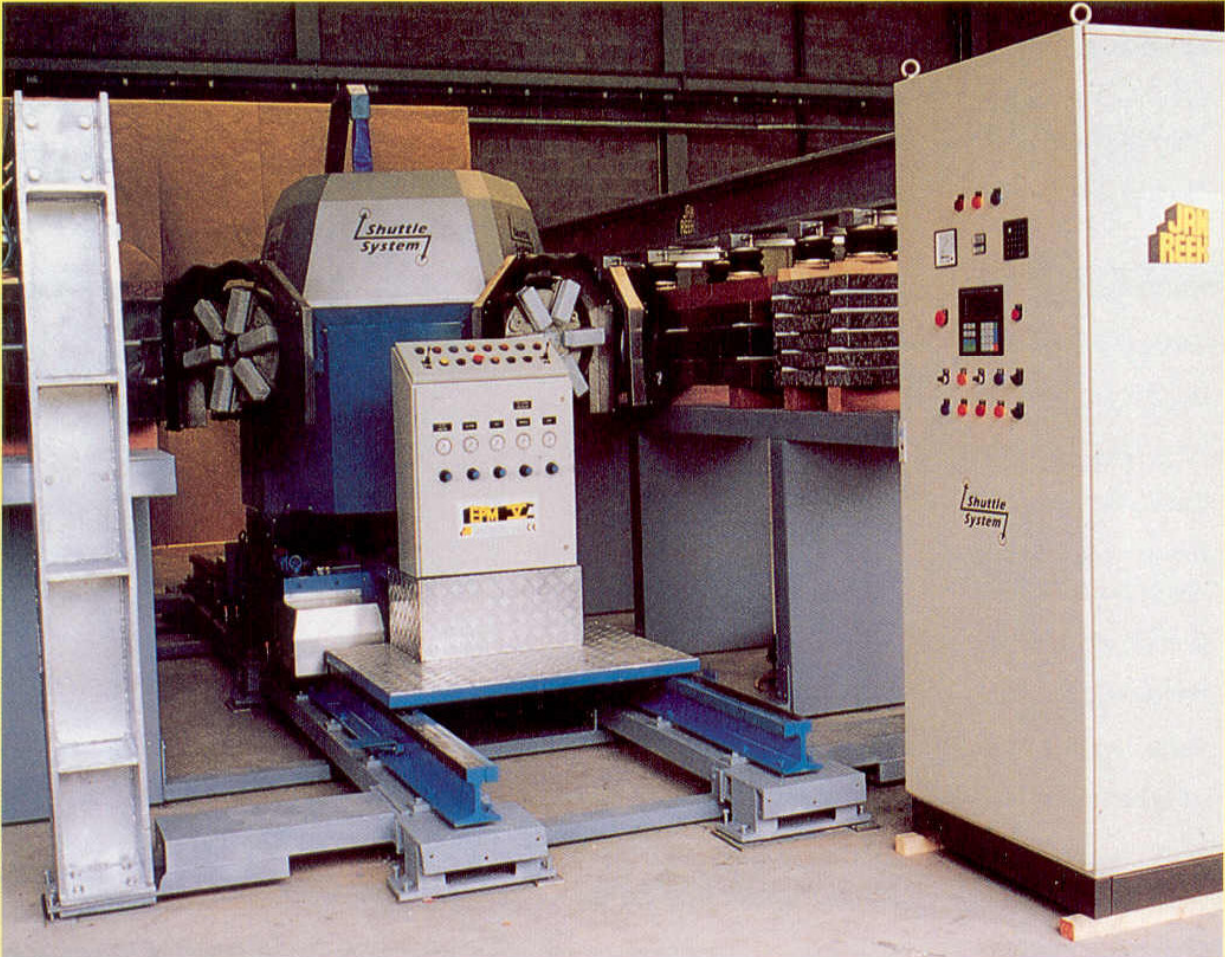
Spindle speed	400 RPM	Centralised lubrication	Automatic (PLC controlled)
Polishing head Diameter	460 mm	Compressed Air Pressure	6-7 Bar
Polishing head weight	130 KG	Head changing system	By Saw tooth clutch system
No. of abrasives	6 pcs. 140 or 170 mm length	Abrasive wear monitoring	Yes
No. of Heads	5	Total weight	5000 KG
Spindle power	15kW (20 HP)	Polishing Thickness Max	400 mm
Grinding pressure	Variable by pneumatics	Space required	
Cylinder stroke	300 mm	Height	2500 mm
Total power installed	16.5 kW (22 HP)	Width	6500 mm
Cooling water flow	20 litre/min	Length	12000 mm
Bridge travel Speed	Variable by frequency controlled AC motor	Expandable in multiples of	2780 mm
Slide travel speed	Variable by frequency controlled AC motor		



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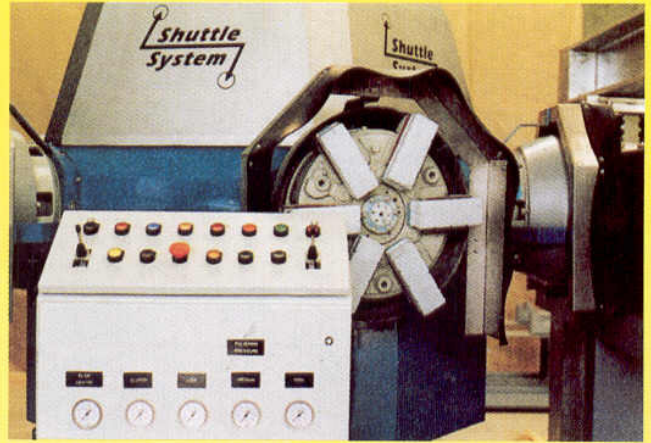
EPM IV



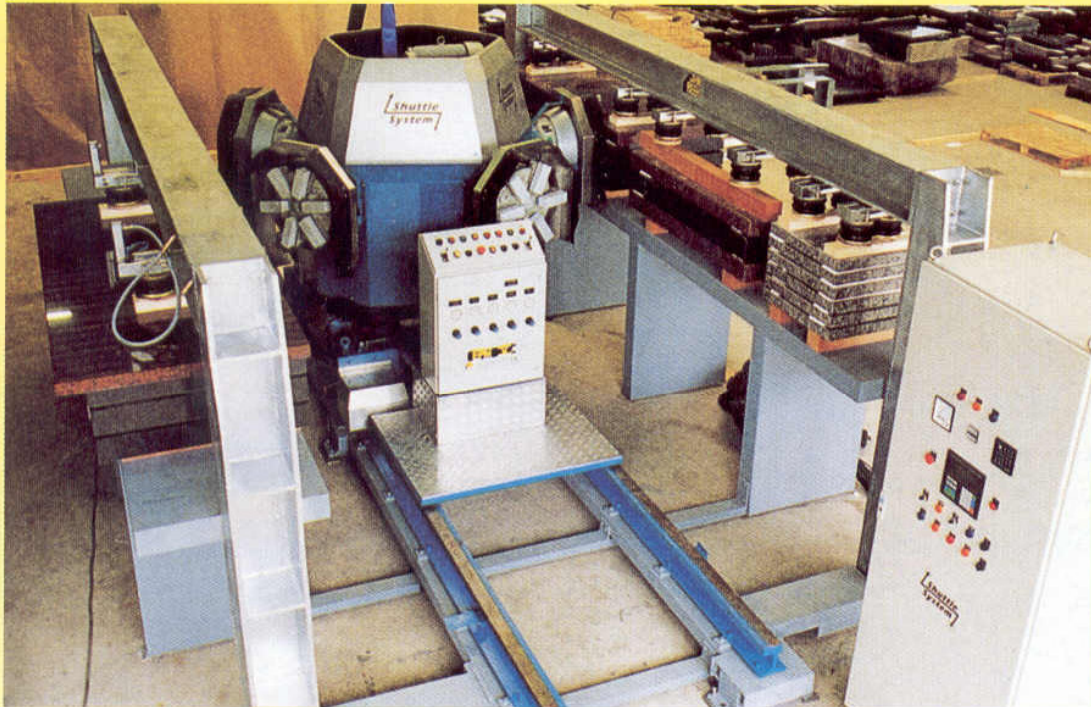
KANTENSCHLEIFAUTOMATEN MIT AUTOMATISCHER SCHLEIFKÖPFWECHSELVORRICHTUNG
AUTOMATIC EDGE POLISHING MACHINE WITH AUTOMATIC HEAD CHANGING MODULE
POLISSOIR À CHANT AUTOMATIQUE AVEC CHANGEMENT AUTOMATIQUE D'OUTILS



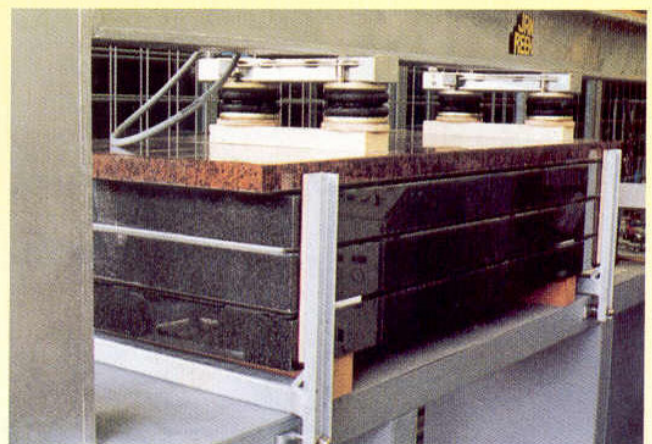
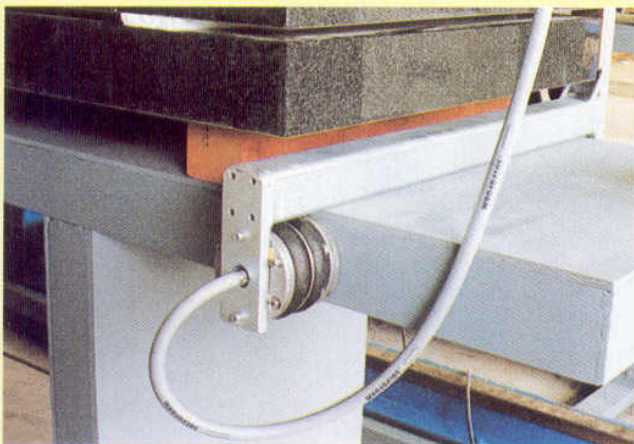
FESTSPANNEN DER STEINE
CLAMPING THE STONES
SERRAGE DES PIERRES



SCHLEIFKARUSSELL
HEAD CHANGING
PLATEAU PORTE TÊTES



BESTÜCKUNG VON ZWEI GEGENÜBERLIEGENDEN TISCHEN
TWO RUNS OF STONES PARALLEL TO EACH OTHER
DEUX TABLES PARALLEL AVEC PIERRES À POLIR



EINMALIGES, PEREFEKTES SYSTEM ZUM EINFACHEN AUSRICHTEN DER STEINE
UNIQUE, PERFECT SYSTEM FOR EASY ALIGNMENT OF THE STONES
SYSTÈME UNIQUE ET PARFAIT POUR DÉGAUCHISAGE FACILE DES PIERRES