

ESSEMCE TOOLS & MACHINERY

2002-1

EQUIPMENT – COLD END



Fire polishing machine

With 6 arms that are moved via a geared motor. On each arm there is a Ø 250 mm graphite plate where the glass is placed. When the plate is in the polishing position, it is lifted up by an electric column while it simultaneously begins to rotate. When the glass is at its highest position, the two burners are lit (propane and oxygen) and the glass is flame-polished for a preset time. When the time has expired, the table is lowered again and the burners are shut off simultaneously with the table ceasing to rotate.

When the button is pushed, the table is moved 1/3 of a revolution.

The machine is supplied complete with 2 burners including valves, frequency converter and a control system.

CONNECTIONS

400, 50 Hz 3-phase

Propane

Oxygen

Compressed air

Belt finishing machine, type BS-3,3

A stable, ergonomically designed machine for wet finishing of glass. The belt runs over two large diameter aluminium rollers journalled on stainless steel shafts. An air cylinder is used to tension the belt. The grinding base and inspection turntable can easily be adjusted vertically. When delivered with standard voltage an adjustable working lamp is included. When delivered with standard voltage an adjustable working lamp is included. The machine is fitted with four vibration dampers. Simple and rapid belt replacement.

The machine is prepared for mounting of inner and outer bevelling machine (shown on the photo).

Must be connected to the main water supply.

SPECIFICATION

Motor:	2,2 kW
Voltage:	3-phase 400V, 50 Hz (other voltages on request)
Air pressure:	0.4 – 0.8 Mpa
Belt size:	Length 3300 mm x width max 180 mm
Height:	1760 mm
Width:	680 mm
Weight:	Approx. 300 kilos



Double belt finishing machine

Stainless steel stand fitted with four vibration dampers on machine feet. Air cylinders are used to tension the belts. Stainless steel splash guards. Often used for bevelling and repair work.

The belt size is 63 x 1500 mm.

Width: Approx 920 mm

Depth: Approx 620 mm

Height: Approx 1890 mm



Edge-melting machine

The machine has 24 tables. Electrical stepless raising and lowering of the drum. Stepless speed control of both tables and the ring via a frequency control. Ring diameter 1080 mm. Sixflame burner for LPG and blowair.

Maximum glass height approx. 300 mm and maximum diameter approx. 120 mm (when all tables are used).

SPECIFICATION

Length: approx. 150 mm

Width: approx. 110 mm

Connections: 400V, 50Hz. 3-phase.

Propane

Blowair

Cracking-off machine – 2 tables

Cracking-off-machine with 2 tables. One of these is driven by a motor with stepless speed control. Burner and cracking-off diamond have adjustable height and depth.

SPECIFICATION

Width: approx. 600 mm

Depth: approx. 700 mm

Height: approx. 820 mm

Max. height of glass: 400 mm

Max. diameter of glass: Ø 290 mm

The machine should be connected to:

Electricity: 240V, 50Hz single-phase.

Other voltages on request.

Propane: Pressure approx. 3kPa (0.03bar).

Consumption approx. 0.04 kg/hour.

Air: Pressure approx. 5kPa (0.05bar).

Consumption approx. 0.6 m³/hour.



Cracking-off machine – 4 tables

Cracking-off-machine with 4 tables. Three of these are driven by a motor with stepless speed control. Height and depth adjustment of the burners and the cracking-off diamond is achieved using adjusting wheels. Scales on the pillars make adjustment easier.

SPECIFICATION

Width: 850 mm

Depth: 700 mm

Height: 900 mm

Weight: approx. 65 kg

Max. height of glass: 400 mm

Max. diameter of glass when using all tables: Ø 180 mm.

Max. diameter of glass when using alternate tables: Ø 240 mm.

The machine should be connected to:

Electricity: 240V, 50Hz single-phase.

Other voltages on request.

Propane: Pressure approx. 3kPa (0.03 bar).

Consumption/burner approx. 0.04 kg/hour.

Air: Pressure approx. 5 kPa (0.05 bar).

Consumption approx. 0.6 m³/hour.



DPV Diamond Flat Mill

for Ø 600 mm diamond wheels.

The use of diamond wheels gives:

- better grinding results
- shorter polishing times
- lower noise level
- better working environment
- no silicon carbide waste

The flat mill has:

- high pressure washing unit for cleaning the diamond wheel
- Ø 900 mm tub of stainless steel
- stainless steel plates around the chassis

SPECIFICATION

Motor: 1,5 kW, 400 V, 50 Hz, 3-phase
Other voltages on request.

Peripheral speed: approx. 19 m/sec

With frequency converters for stepless speed control: 5 – 25 m/sec.

Working height: 900 mm.

The flat mill should also be connected to water.



Flat Mill SP-5

for Ø 600 mm cast iron wheels. With stand and a stainless steel container for the silicon carbide.

SPECIFICATION

Motor: 0,75 kW, 400 V, 50 Hz, 3-phase.

Other voltages on request.

Spindle speed: 275 r/min.

Weight without cast iron wheel: approx. 160 kilos.

The flat mill should also be connected to water.

The mill can also be supplied without stand and container for use with sand stone and is then provided with 1,5 kW motor. Spindle speed approx. 200 r/min.

NEW!



DPM Flat Mill for magnetic diamond and polishing discs

The flat mill has a 700 mm stainless tub. The working height is approx. 800 mm. The 1,1 kw motor is protected by a stainless casing. The very stable stand is fitted with machine shoes.

As an option, the machine can be provided with a frequency converter for stepless speed control.

We can also supply discs in different diameters and grits.

Connections: 400 V, 50 Hz, 3-phase
Water



NEW!

OSM – Oscillating machine for automatic grinding and polishing

This machine works with an oscillating movement where the glass is either grinded using loose abrasive (fine silicon carbide) or polished using pumice powder/cerium oxide. The glass is worked under its own weight or by loading with weights.

The machine is equipped with an 800 mm cast-iron wheel that is covered with felt when polishing. The chassis is made of stainless steel and in use, it is closed with a lid. Several products can be worked simultaneously. The maximum weight of products allowed is 100 kg.

In addition, it is fitted with a frequency converter for stepless speed control and a timer for setting grinding/polishing time.

The machine should be connected to 400V, 50Hz, 3-phase.



Electric engraver

with a small, compact micromotor possessing extra-ordinary power and strength for 2,35 mm engraving instruments. A slim electric lead connects the table-placed speed governor with the combined handpiece and motor.

SPECIFICATIONS

Voltage: 220V, 50Hz single-phase.
(other voltages on request)

Speed: Steplessly adjustable 1000-25000 rpm.

Weight: Handpiece/motor 300g.

Governor 2900g.

Awide range of engraving instruments available.



Lathe PMV for diamond wheels

Intended for removal of pontilmarks or cutting with max. Ø 200 mm diamond wheels. The machine is mounted on a worktable and fitted with a stainless steel splash-guard and a frequency converter for stepless speed control.

To be connected to 200V, 50Hz single-phase, water and a drain.



Polishing lathe

Polishing lathe for up to Ø 700 mm felt, cork or polyurethane wheels.

Connections: 400V, 50Hz 3-phase.