

SAFETY WITHOUT ANY COMPROMISE

## MAI®400EX

### INDESTRUCTIBLE

The skid-mounted mixing pump MAI®400EX for cementitious grout was specially designed for tough working environments, often found in underground mining.

This machine will continuously mix and pump the widest range of grouting materials from thin to thick consistencies. The rugged steel frame stands up to the toughest conditions on the job site. Operator controls are centrally located for efficient production. All components are easily accessible for operating, cleaning, and maintenance.

### HEALTH & SAFETY

Safety plays a crucial role in potentially explosive atmospheres such as the coal mining branch. MAI® has taken this fact into consideration and continuously further developed the MAI®400. The result has obviously been worth our efforts. We now present a combination that has not existed thus far. Functional safety and the ATEX approval are combined in one single grout pump for the first time. More safety would not be possible!

### SAFETY RELEVANT FUNCTIONS

- Pressure relief button to prevent accidental injury
  - Thermal, water flow & pressure monitoring
  - Dry running & overheating safeguard
  - Antistatic & flame resistant design

### TIME IS MONEY

Thanks to the modern automatic control, operator errors are now impossible. Machine downtimes due to trouble-shooting are also a thing of the past. The ESA (Electronic Service Assistant) prevents unnecessary downtimes by constantly indicating the operating status. Save time and make things easier with the simple replacement of the progressive cavity pump.

### SCOPE OF SUPPLY

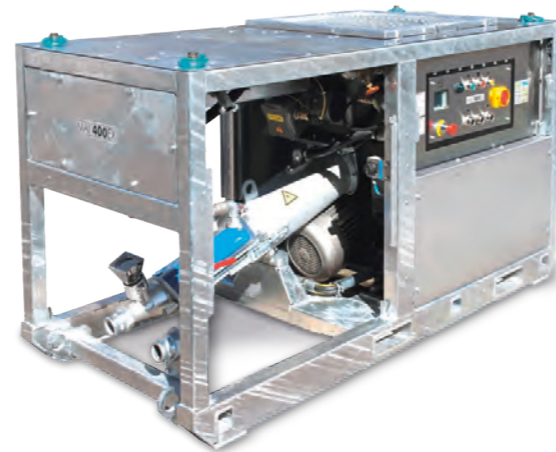
- Pump type EX400 „XL“ (standard equipment) 60 l/min
  - Parallel shaft gear motor 7,5 kW / 270 rpm
  - Automatic screen safety feature
  - Automatically polarity control
  - Save reverse drive function
    - Remote control 50 m
    - Cleaning equipment
      - Vibrator
      - Tools

### TECHNICAL DATA

Operating voltage:	500V/3/PE/50Hz, 660V/3/PE/50Hz
Nominal power:	10 kW
Fusing:	16 A
Discharge flow:	15 to 60 l/min
L x W x H:	199 x 89 x 107 cm
Feeding height:	107 cm

### WEIGHT

Transport weight:	985 kg
Pump unit:	29,60 kg
Mixer:	10,50 kg
Protection grid with grout sack opener:	9,75 kg
Total weight	950 kg



## MAI®400EX



MAN ASSISTING INNOVATIONS

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**Safety Switch** prevents an accidental operation of the unit when the pump unit is removed

**4 Lifting Points** for lifting the entire machine

**Backflush Filter** for the protection from micro & macro fouling (debris)

**Pressure Reducers** for compensation of pressure fluctuations to provide highest possible mixing quality

**Direct Pressure Indicator** with quick release coupling

**Pump Outlet** designed for low flow resistance and linear material flow

**Removable Stainless Steel Covers** for protecting the machine during transport

**Sturdy and Rigid Machine Frame** hot dip galvanised

**Decoupled Stainless Steel Hopper** with vibrator for constant material flow

**Spacious Toolbox** for tools and spare parts storage

**Air Control** for spraying applications as an option

**The ESA (Electronic Service Assistant)** prevents unnecessary downtimes by constantly indicating the operating status.

**Safety Switch** prevents an accidental operation of the unit when the protection grid is removed

**Pressure Relief Button** depressurises all pressure retaining components and allows for safe disconnecting of the mortar hose in case that the hose becomes clogged

**Cable Storage** for 20 meters of power supply line

**Water Flow Sensor** prevents pump from dry running and overheating

**Remote Control** allows remote controlled operation

**MAI<sup>®</sup>CODUR Lining Tube** provides unique mixing quality and new levels of cleaning convenience

**Lifting Point** for fork-lift trucks

**Modular MAI<sup>®</sup>CODUR Mixing Device** provides unique mixing quality and new levels of cleaning convenience (Patent No. EP 1 768 771 B1)

**Cleaning Connection** for the mortar hose

**Progressive Cavity Pump** with delivery rates from 15 to 60 l/min.



**MORTAR MIXING PUMP**

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