

UELZENER

Maschinen GmbH



UELZENER S30-E407KM-K-C

Injection Unit for
Cement Suspensions



UELZENER S30-E407KM-K-C



The compact injection unit E407KM-K-C mounted on a skid frame is used for back filling of concrete tubing segments, well sinking, geothermal energy units; water piping, injection of rock anchors, injection of prestressing elements and many other applications, which do require a homogenous solubilized binder dispersion or pastry consistence.

Two wet level probes ensure an automatic work flow. One probe controls the continuous mixer and guarantees that the wet material hopper will not run over and that always a sufficient quantity of suspension is available. The second level probe controls the mortar pump and prevents its dry running.



The injection unit might be equipped with a mortar pressure control (Part no. 130.09.101.1), which will switch off the mortar pump when reaching the adjustable conveying pressure.

A quantity measuring device with integrated mortar pressure control and line-printer is available, in case that the processed quantity of suspension and the injection pressure as well as date and time of the injection work must be documented (Part no. 130.27.100)



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Operation and description

The injection unit UELZENER S30-E407KM-K-C continuously mixes a suspension of cement, other suitable adhesives and water of any consistence. The included mortar pump conveys the suspension through a flexible hose to the place of operation.

The powdery adhesive is stocked up in a container of about 1000 l useful volume and silo cover flap. The container can be charged during the mixing with sacks or big bags through the opened cover lid.

The container can be quickly changed by crane or fork lift, which allows continuously operating. For smaller applications the continuous mixer can also be supplied without container but with a funnel to be charged with sacks.

The continuously working ESTROMAT 407KM contains an intensive mixing unit, which is able to mix the adhesive homogenously with adjustable water flow. The dosing shaft and mixing shaft KM are made of wear resistant material and allow a long operation without change. The ready to use suspension leaves the tube outlet of the intensive mixer and flows into the wet mortar hopper/vessel of the mortar pump below.



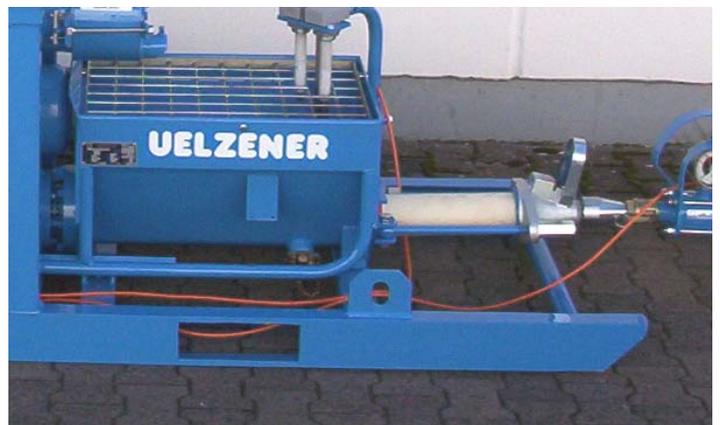
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The electric control consists of 2 units (continuous mixer and screw pump), so that both machine parts can also be supplied separately by smaller generators.

The mortar pump contains a wear resistant screw pump (Rotor-Stator-System). The conveying quantity can be adjusted by a hand wheel at the vario gear motor during operation and is thus optimally adjusted to the operation.

After operation the screw pump is easy to clean and simply to check for any signs of wear.

By exchanging the dosing shaft in mixer and screw pump the mixing and conveying performance of the system is applicable in a wide range of work.



Technical Data

Container volume	1000 l useful volume
Mixing performance	standard up to 40 l/min
Conveying output	standard up to 40 l/min
Mixing- + conveying outputs	up to 50 l/min possible
Conveying pressure	up to 25 bars
Mixer motor	3 kW
Pump motor	5,5 kW
Pump system	HD 40
Control voltage	42V/50Hz
Operating voltage	400V/50Hz/3-phase
Power supply	CEE 532/6h
Water supply	3/4" GK-coupling
Pump connection	SKM35

Measures, weight + scope of delivery

Length	: 2800mm
Width	: 915mm
Height incl. container	: 2400mm
Height without container	: 870mm
Filling height with funnel	: 1200mm
Total weight, empty	: 550 kg

Standard scope of delivery:

- Pump set HD 40
- Standard mortar pressure gauge SK35
- Tool kit
- Operating instructions
- Spare parts list
- CE-conformity declaration

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