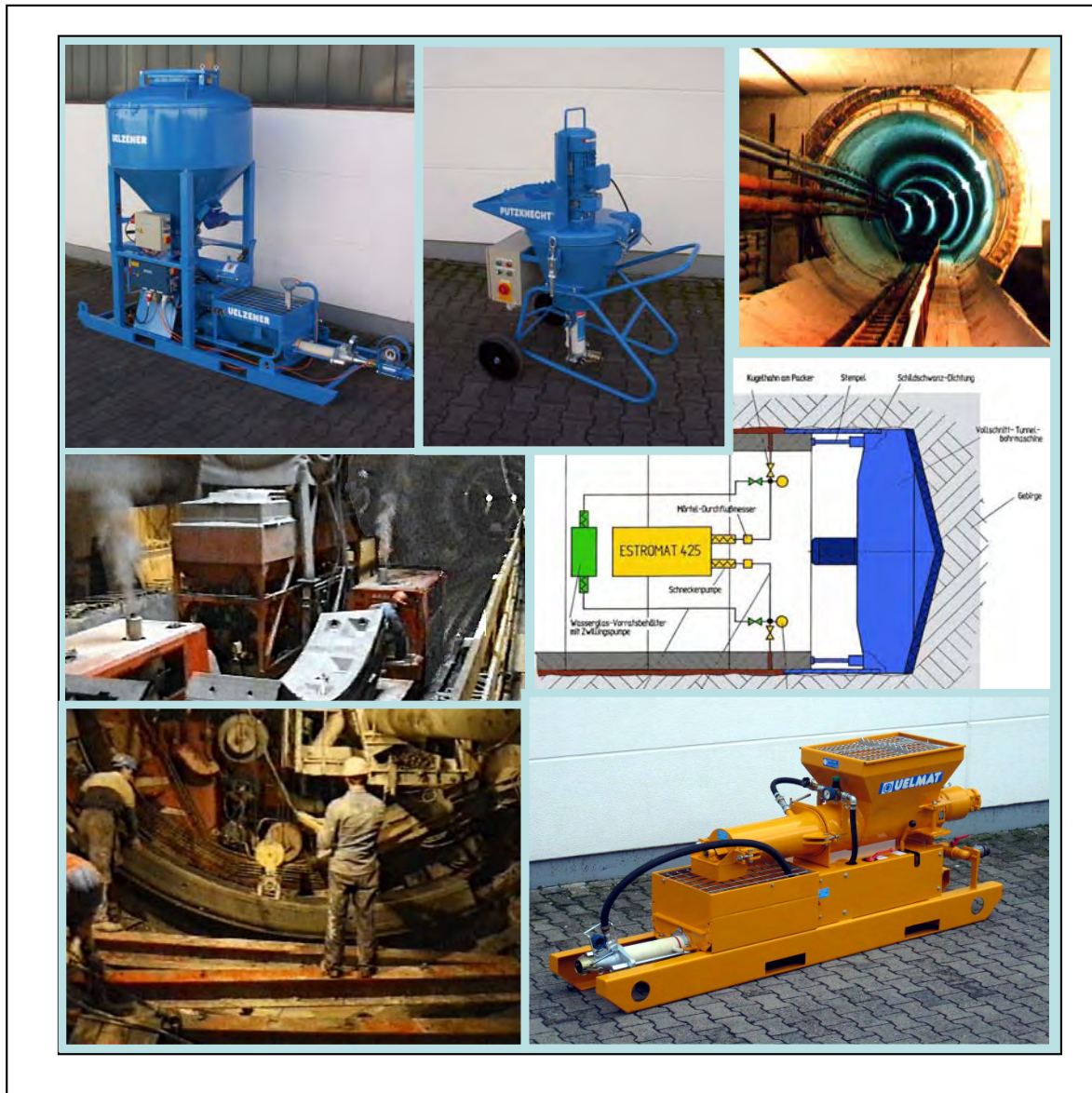


UELZENER



Machines for Grouting,
Injection and Backfilling
for Civil Construction,
Tunneling and Mining



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Preface

This leaflet will take the opportunity to give a short introduction of the possibilities for application of UELZENER pumps for grouting, injection and backfilling for different purposes, which can arise at underground sites, general tunnelling and mining:

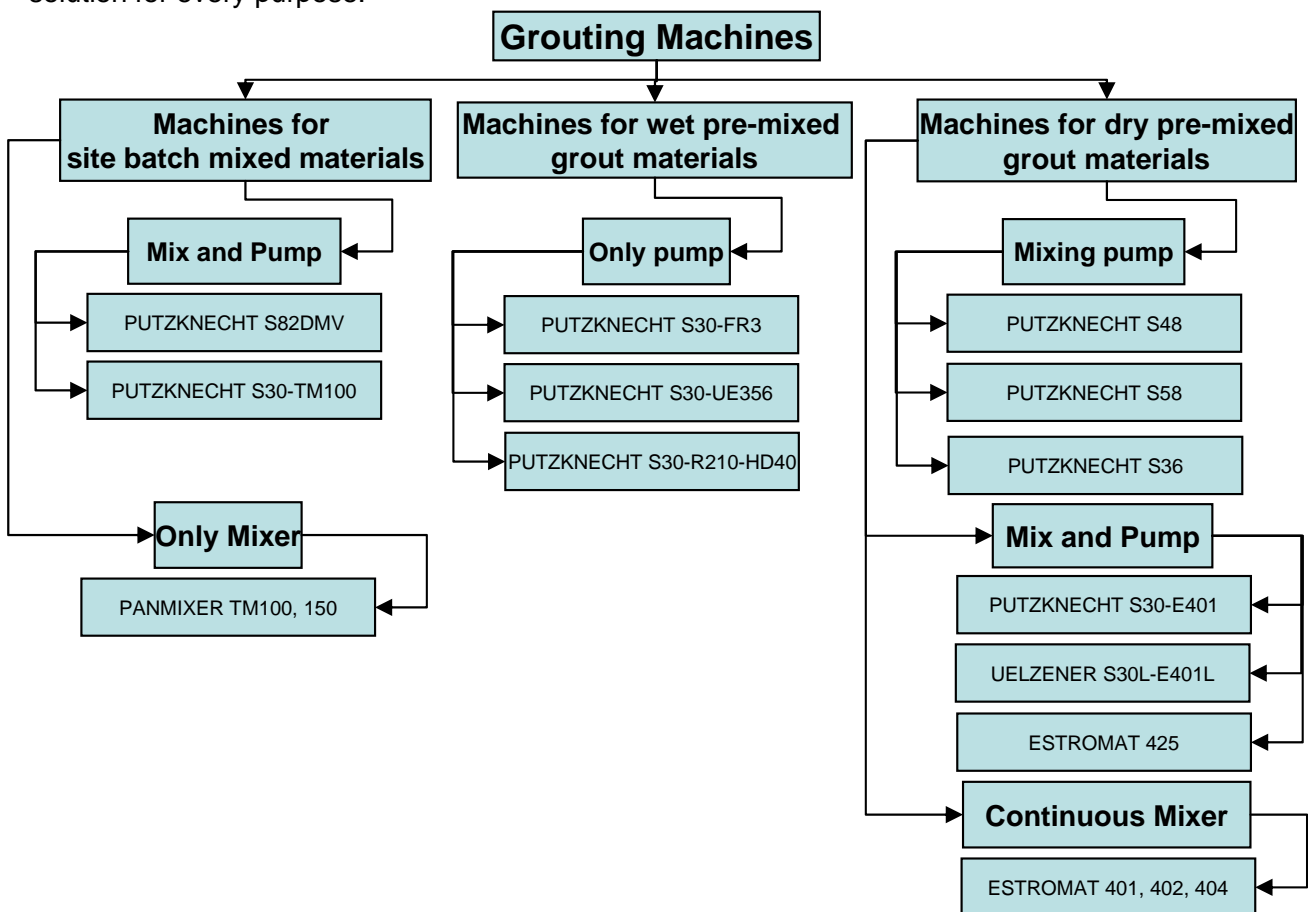
To select the best solution it is very important to know and consider all about the site conditions, the type of material to be used, the necessary volume of material needed in a time period and quality, more or less continuously application or application with many interruptions and long breaks during the work.

The used material can be site batch mix, wet pre-mixed material ready to use or dry pre-mixed material in bags, big bags or container, which is to be added with water at site. Important are also all physical characteristics of the material: Such as aggregate size, setting time, cement percentage, strength, but also the mechanical conditions like pump-ability, required material pressure, affection to segregation and quick setting and others are to take into consideration.

Full information about the handling and application at site and the size of the job is necessary to plan a job arrangement without trouble and breaks, malfunctions and costs of wear and tear and wasted time.

The careful selection of material and machine is the pre-condition for a successful work, a convincing application of the machine and satisfaction on both sides: The contractor and the client company.

All machines in the following list can be a best solution, if all a. m. conditions are taken into consideration. The pictures of the machines and the technical description enables to find a suitable solution for every purpose.



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Machines for site batch mixed materials - mix and pump



PUTZKNECHT S82-DMV

Diesel driven mixer and screw pump.
Motor power: 12kW
Output: 15 – 45 l/min
Pressure: up to 30 bar
Application: Grout mixing and conveying
Road transport trailer



Mortar pump with Pan mixer

PUTZKNECHT S30-TM100

Pan mixer 100 l working volume
Motor power mixer: 4 kW
Screw pump UE45/7 or HD40
Motor power pump: 5,5 kW, 400V/50Hz
Output: 20 – 50 l/min
Pressure: up to 30 bar
Application: Grout mixing and conveying

Machines for site batch mixed materials - only mix



Panmixer TM100 / TM150

Working volume 100 l / 150 l
Motor power: 4 / 5,5 kW, 400V / 50Hz
2 wheels, detachable tow bar
Application: Grout mixing

Machines for wet pre-mixed materials



PUTZKNECHT S30-FR3

Mortar screw pump UE4 silver
Output: 10 – 30 l/min (adjustable vario-drive)
Pressure: up to 30 bar
Motor power: 3kW, 400V/50Hz
Application: injection, grouting



PUTZKNECHT S30-HD40 with vibrator sieve

Mortar screw pump HD40
Output: 10 – 50 l/min (adjustable vario-drive)
Pressure: up to 35 bar
Motor power: 5,5kW / 400V/50Hz
Application: injection, grouting, backfilling



UELZENER S30-UE2L8

Mortar screw pump UE2L8
Output: 200 l/min
Pressure: up to 25 bar
Motor power: 15kW
Application: grouting, backfilling

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Machines for dry pre-mixed grout materials



PUTZKNECHT S48

Mixing pump,
Output: 22 / 30 l/min
Motor power: 5,5 + 1,1 kW
Application: grout mixing,
injection

PUTZKNECHT S36

Mixing of several components
by individual mixing time
Hopper 30 l
Motor power: 3 kW, FC-adjust.
Output: up to 18 l/min
Application: spec. grout mixing
and pumping, injection



UELZENER S30-407-KM

Combination conti.mixer
and screw pump on skid
Container 800 l
Motor power: 4 + 5,5kW
Output: 15 – 50 l/min
Application: grouting

Mortar flow and pressure control unit



UELZENER S30L-E401L

Combination continuous mixer
and screw pump on skid
Motor power: 5 + 8 kW, air motors
Output: 15 – 50 l/min
Application: grouting in coal mines



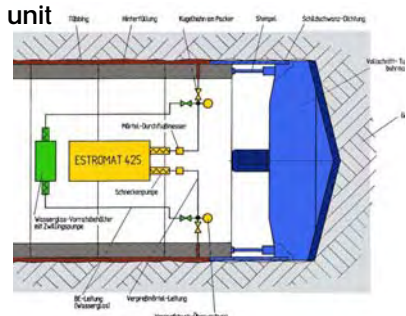
ESTROMAT 404 and PUTZKNECHT S30-FR3

Combination of Continuous mixer and Mortar Pump
Mixer motor: 3kW
Pump motor: 3 kW
Output: 10 – 30 l/min
Application: grouting, small jobs
Can be delivered for single phase 230V/50Hz



ESTROMAT 425 backfilling unit

for concrete elements
Container: 4m³
2 Conti. Mixer E401
2 screw pumps S35
Output: up to 100 l/min
Application: in process
with TBM in road- and
underground tunnel



For full information see special leaflets for all a.m. machines.