MEYCO ME3
Concrete Spraying Mobile for medium sized tunnels
Atlas Copco
VERSATILE CONCRETE SPRAYING
APPLICATION EXPERTISE UNIFIED FOR HIGH QUALITY, ECONOMICAL AND SAFE APPLICATION OF SPRAYED CONCRETE.

MAIN BENEFITS

Optimal sprayed concrete quality by providing a homogeneous mixture of concrete, accelerator and compressed air

Supreme productivity thanks to improved pumping efficiency and accurate boom operation

High Safety standard by prevention of under dosage of accelerator and fail safe conveying system

Meyco Mezza sturdy telescopic boom with play free slide system

Container for liquid accelerator

Large diameter concrete conveying system

Low pulsation dosing system optimized for alkali free liquid accelerators

Control panel and Radio Remote control
Sturdy carrier with single-wheel drive including crabwalk.

Large onboard compressor for high compaction of sprayed concrete.

Single point control panel for all functions and operation overview.

Robust nozzle system with built-in safety feature and easy cleaning.

Suprema wet spraying pump with S-tube

Sturdy carrier with single-wheel drive including crabwalk

Large onboard compressor

Spraying head

Water hose reel for scaling

Diesel engine

Electric cable reel
MEYCO ME3
PLUG AND SPRAY
MINIMIZED START UP TIME FOR HIGH PRODUCTIVE CONCRETE SPRAYING.

+ CONCRETE QUALITY
Highly accurate dosing system for liquid accelerators with constant adjustment of volume including flow meter and rotor/stator-pump. Suprema double piston pump with superfast switch-over for minimum pulsation and air compressor with optimized capacity. The recipe for high quality sprayed concrete.

+ PRODUCTIVITY
Data logging of production data and system messages, selectable user profiles for machine parameter settings. Integrated diagnostics, redundant control panel, intuitive operator interface and functions, easy wear parts access and live adjustment of accelerator dosage - the requirement for supreme productivity.

+ SAFETY
Automatic pressure relieve of blocked concrete lines, prevention of under dosage, hopper screen activated emergency stop and safe operator environment for tramming. Because we care about people.

ATLAS COPCO SERVICE
- IT’S NOT JUST ABOUT OUR PROMISES, IT’S ABOUT DELIVERY

The Meyco ME3 design is based on common wear parts of existing MEYCO concrete spraying machines for reduced stock requirements.
CONCRETE SPRAYING PUMP

Meyco SE20 double piston pump with superfast switch-over system 20 m³/h at 50 bar

- Automatic reverse function for pressure relief
- Manual central lubrication for pump unit
- Feeding hopper 250 l at 1300 mm height
- Low profile feeding hopper 180 l at 1160 mm height
- Pump cylinder diameter 150 mm with 800 mm stroke

BOOM SYSTEM

Mezza telescopic boom with slide system and proportional hyd. valves

- Manual central lubrication for boom
- Automatic central lubrication system for boom and pump
- Spraying head movement 120°/360°
- Nozzle nutation (rotation) 8°
- Max height 9.5 m (incl. 1.5 m spraying distance)
- Max width 16 m (8 m each side incl. 1.5 m spraying distance)
- Working lights LED 24 V, 4x 50 W

DOZING SYSTEM

Flow meter (system accuracy ± 2%)

- Rotor/stator-pump max 24 l/min at 10 bar
- Auto-stop for accelerator under dosage and dry run protection

SPRAYING SYSTEM

Conveying and nozzle system diameter 100/65 mm

CONTROL SYSTEM

PLC control system with touch screen

- User profile machine parameter management and integrated diagnostics
- Data logging for production data and system messages
- Radio remote control with back-up cable
- Control box stainless steel
- Heater for control box and user panel
- Sensor for concrete temperature in hopper

ELECTRICAL SYSTEM

Voltage 3x 400/480 V

- Frequency 50 or 60 Hz
- Total installed power without compressor 40 kW
- Total installed power with compressor 115 kW
- Conversion Kit 1000 V / 50 Hz
- Electric motor 37 kW
- Cable size without compressor 3x 70/55 mm²
- Cable size with compressor 3x 95/55 mm²
- Cable length 80 m
- Cable reel with hydraulic drive

WATER SYSTEM

Water tank 160 l

- Dual water pump 15 l/min at 12/200 bar for cleaning
- Water hose reel with 15 m high pressure hose and spraying pistol
- High pressure water pump 150 l/min at 90 bar for low impact scaling
- Hydraulic driven water hose reel with 100 m 1 1/4” hose

AIR SYSTEM

Rotary vane compressor 75 kW, 7 bar, 10.5 m³/min at 6 bar

HYDRAULIC SYSTEM

Hydraulic tank 200 l

CARRIER

Direct single-wheel drive and steering ±25°, including crab, front, 4WD, ABS and TCS

- Diesel engine Deutz 4 cylinder, TD3.6, US EPA Tier 4, EU stage IV
- Power rating 55.4 kW at 2100 rpm
- Torque 330 Nm at 1600 rpm
- Hydrostatic power steering and transmission
- Central joint oscillation ±15°
- Rims/Tires 13/16.00 R20

SPRAYING SYSTEM

Conveying and nozzle system diameter 100/65 mm

WORK SYSTEM

Flow meter (system accuracy ± 2%)

- Rotor/stator-pump max 24 l/min at 10 bar
- Auto-stop for accelerator under dosage and dry run protection

MISCELLANEOUS

- Accelerator tank 650 l
- Heater and insulation for accelerator tank
- Concrete release agent hand sprayer 5 l
- Working lights LED 24 V, 2x 50 W
- Connection for external air supply
- Toolbox

TRAMMING

Tramming speed on flat ground (rolling resistance 0.05) 18 km/h
Tramming speed on incline 1:8 7.8 km/h
Gradability at max load on good ground 30%

WEIGHT

Total weight without compressor 10200 kg
Total weight 11500 kg

DIMENSIONS

Width 2200 mm
Height 2600 mm
Length 7820 mm
Ground clearance (with standard tires) 350 mm
### Technical Specifications

**Boom Working Range**

**Boom Working Range Side View**

**Boom Working Range Top View**

**Spraying Distance**
DIMENSIONS

Transport dimensions and gradability

Rear View  Front View  Side inclination driving

Top view turning radius.
COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

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