

MEYCO ME5

Mobile concrete spraying for
large drifts and tunnels



Dependable concrete spraying

The ideal choice for underground construction projects with medium to large openings. The MEYCO ME5 incorporates a precise dosing system and powerful pump, with minimal pulsation, to distribute concrete continuously, quickly and evenly.

+ Main benefits

Productivity by providing a homogeneous mixture of concrete at a constant flow

Accuracy as the admixture dosing system ensures the right amount at the right time

Safety ensured by under-dosage and over-dosage prevention and a sophisticated control system with built in safeguard functions

360 degree injection nozzle
system delivers high quality mix





75 kW onboard compressor for optimal delivery of sprayed concrete



The integrated dosing system for liquid additives guarantees continuous flow through the interaction of flowmeter, frequency converter and controller



Operating parameters are always visible on the display and troubleshooting can be easily done using the display functions

Compacta+ is a sturdy telescopic boom with load optimized design and a patented linear play free slide system



ROPS and FOPS certified cabin

2x1 000 liter container for liquid accelerator

Electric cable reel

Sturdy carrier with permanent electronic 4-wheel drive with ASS and TCS

Highly accurate constant flow high accuracy dosing system optimized for alkali free liquid accelerators

MEYCO ME5 plug and spray

Quick startup for quality concrete spraying with a constant flow, form a fast and powerful concrete pumping system. The rigid and high performance boom assures accuracy and less rebound, resulting in less waste.



+ Improved productivity

MEYCO ME5 provides a constant, highly-accurate flow with a closed loop-controlled liquid accelerator dosing system. With single button control, operation is quick and intuitive. The flow meter makes it easy to digitally monitor and measure a vast variety of accelerator types. The built-in MEYCO SE30 double-piston pump utilizes a fast switch over resulting in constant concrete flow.



+ Refined accuracy

MEYCO ME5 has an intuitive operator interface which allows easy startup, operation and cleaning. The customizable operator profiles speed up shift changes, and the integrated diagnostics allows proactive maintenance to minimize downtime. A play-free, sturdy Compacta+ boom renders perfect control for the operator.



+ Increased safety

Built with safety in mind, MEYCO ME5 has an automatic pressure relief function in case of blocked concrete lines. Safety is further boosted with an under-dosage and over-dosage prevention system which activates the automatic stop function.



A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity – wherever you are.

Concrete Spraying pump

MEYCO SE30 double piston pump with super fast switch over resulting in constant flow for the full range from 6 m ³ /h up to 30 m ³ /h at 50 bar	●
Automatic reverse function for pressure relief	●
Automatic central lubrication system for pump	●
Feeding hopper 250 l at 1 320 mm height	●
Low profile feeding hopper 180 l at 1 160 mm height	○
Optimized screen for fibre reinforced concrete	●
Pump cylinder diameter 180 mm with 600 mm stroke	●

Boom system

Compact+ spraying boom with slide system and proportional hydr. valves	●
Automatic central lubrication system for boom	●
Spraying head movement 135°/360°	●
Nozzle nutation (rotation) 8°	●
Max height 14.5 m (incl. 1.5 m spraying distance)	●
Max width 22.2 m (8 m each side incl. 1.5 m spraying distance)	●
Working lights LED 24 V, 6x50 W	●
2 working lights on turret, 1 working light on spraying head	●
Load match valves for higher safety	●
Retracted parking	●
3 metre parallel holding	●
Automatic parallel adjustment	●
Carbide tipped scrapers for cleaning the boom	●

Dosing 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 100/80 mm	●
Extra light mounted on spraying head for increased vision	○

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, 20 m, with full function set	●
Sensor for concrete temperature in hopper	○
Heating kit, includes following: – Heating kit for 2x accelerator tanks/containers – Heating kit for user control panels – External power supply socket (400 V/50 Hz - 460 V/60 Hz 16 amp max)	○

Electrical system

Supply voltage 3x380-420/440-480	●
Frequency 50 Hz/60 Hz	●
Total installed power without compressor 60 kW	●
Total installed power with compressor 135 kW	○
Electric motor 55 kW	●
Cable size Buflex M 3x50+3G10, cable for 60 kW without compressor	○
Cable size Buflex M 3x120+3G25, cable for 135 kW with compressor	○
Recommended cable length is 80 m NOTE! Length is depending on cable type and voltage used	○
Cable reel with hydraulic drive	●
Cable reel limit switch	○

Water system

2x200 l water tanks	●
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 80 bar for 20 kW low impact scaling includes water hose reel option	○

Air system

Rotary vane compressor 75 kW, 7 bar, 10.5 m ³ /min	○
Screw type compressor 75 kW, 7 bar, 10.5 m ³ /min	○

Hydraulic system

Hydraulic tank 200 l	●
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Carrier

Direct 4-wheel drive and steering +-25°, including front steering, 4-wheel steering, crab steering, ASS and TCS	●
Diesel engine Deutz 4 cylinder, TCD 3.6 74 kW, US EPA Tier 4F, EU Stage IV	●
Diesel engine Deutz 4 cylinder, TCD 3.6 74 kW US EPA Tier 3, EU Stage IIIA downgrade	○
Power rating 74 kW at 2 300 rpm	●
Torque 388 Nm at 1 600 rpm	●
Hydrostatic power steering and transmission	●
Central joint oscillation ±15°	●
Automatic central lubrication system for carrier	●
Rims/Tires 13/16 R20	●
Open drivers cabin with protective roof, ROPS and FOPS, seat 90° sideways	●
Portable fire extinguisher	●
Fire suppression system Ansul/Fogmaker	○
Hydraulic front stabilizers 2x	●
Hydraulic rear stabilizers 2x	○
2 Circuit service brakes and SAHR emergency and parking brakes	●
Fuel tank 80 l	●
Electric system 24 V	●
Batteries 2x12 V, 70 Ah	●
Tramming lights 4x70 W	●
Brake lights	●
Horn and reverse alarm	●
Rearview and frontview camera	○
EAT (exhaust after treatment) system included with EPA Tier 4F, EU Stage IV	●

Miscellaneous

Accelerator tank 2x1 000 l	●
Heater and insulation for accelerator tank	○
Concrete release agent hand sprayer 5 l	●
Working lights LED 24 V, 2x50 W (1x concrete hopper 1x cabin)	●
Connection for external air supply	●
Toolbox	●
Concrete release agent/pressurized form oil system 40 l tank including a hose reel	○

Tramming

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

Weight

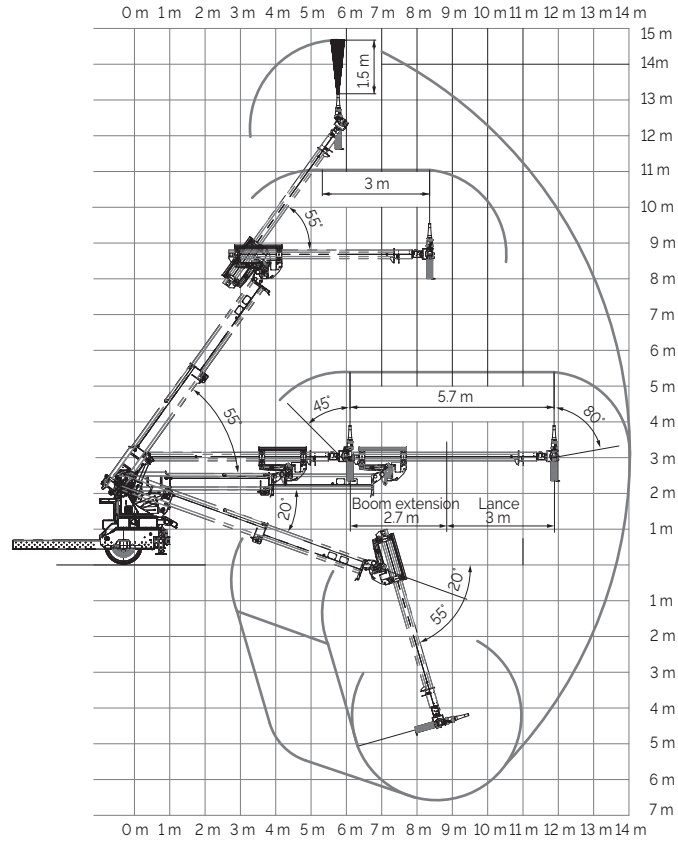
Total weight without compressor	14 250 kg
Total weight	15 500 kg

Dimensions

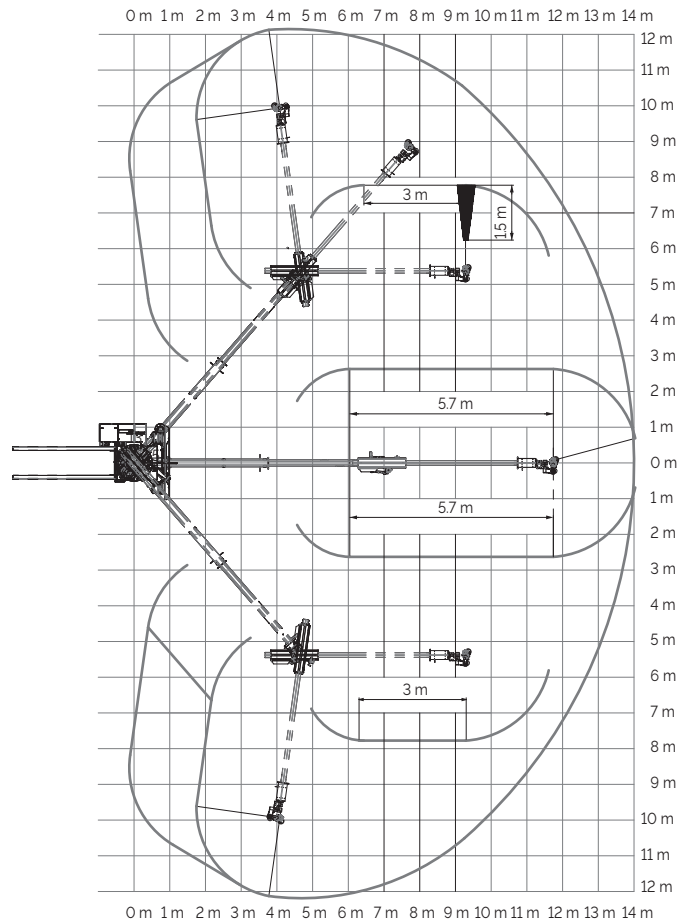
Width	2 200 mm
Height	2 920 mm
Length	11 500 mm
Ground clearance (with standard tires)	350 mm

Technical specifications

Boom working range



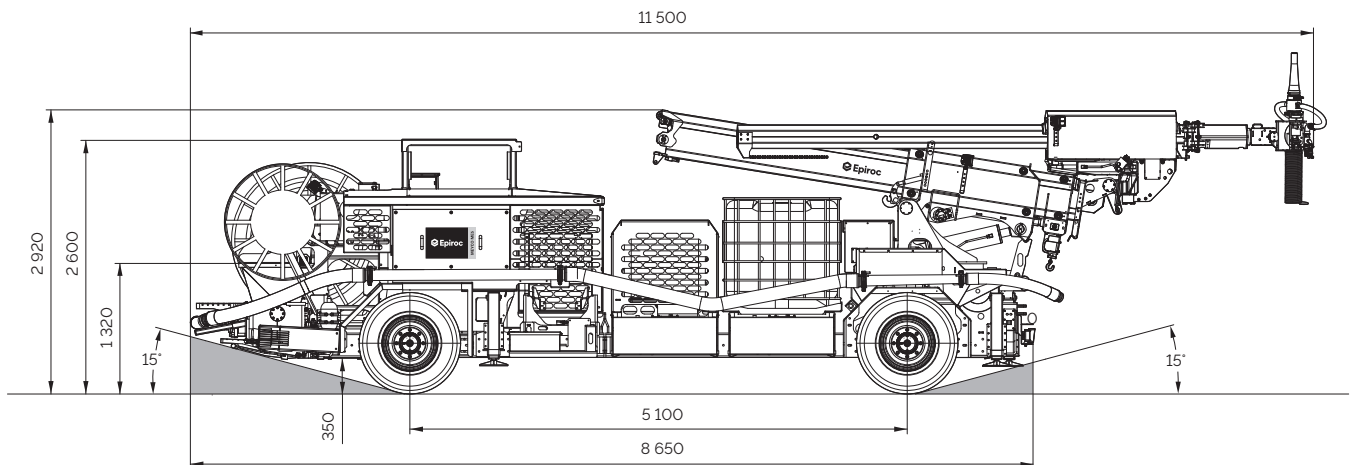
Boom working range side view



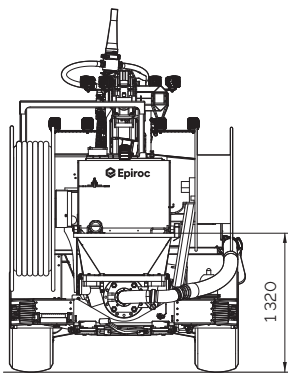
Boom working range top view

Technical specifications

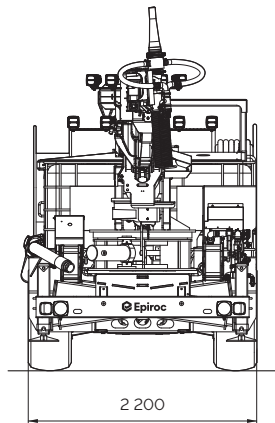
Dimensions



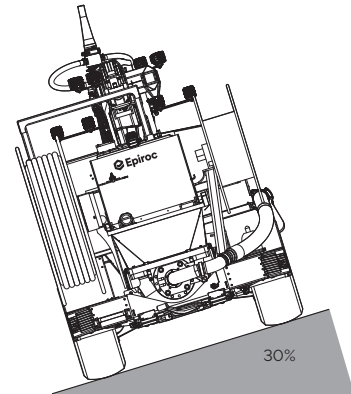
Transport dimensions and gradability



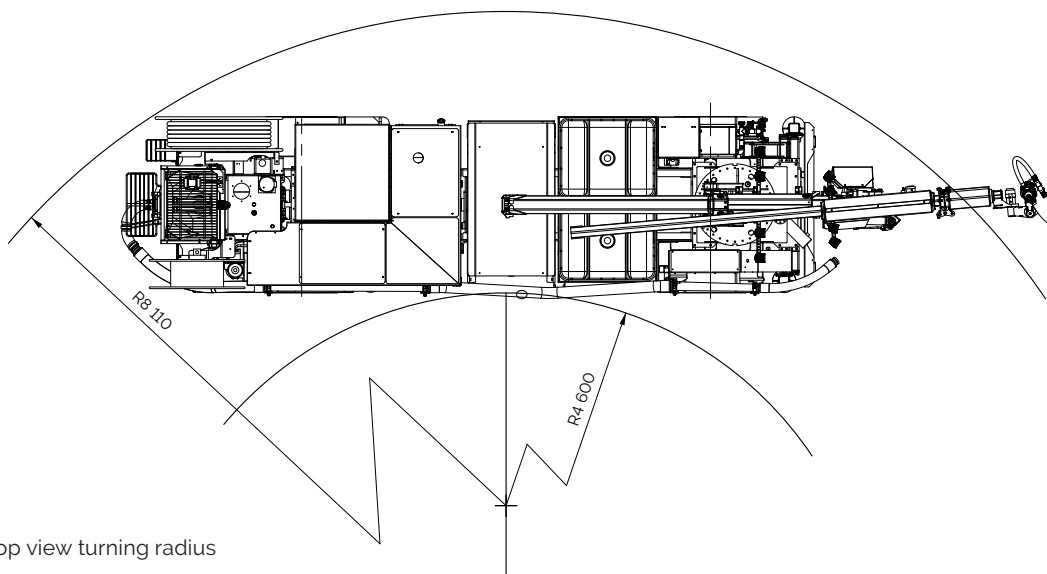
Rear view



Front view



Transverse and longitudinal gradient while tramming



Top view turning radius



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