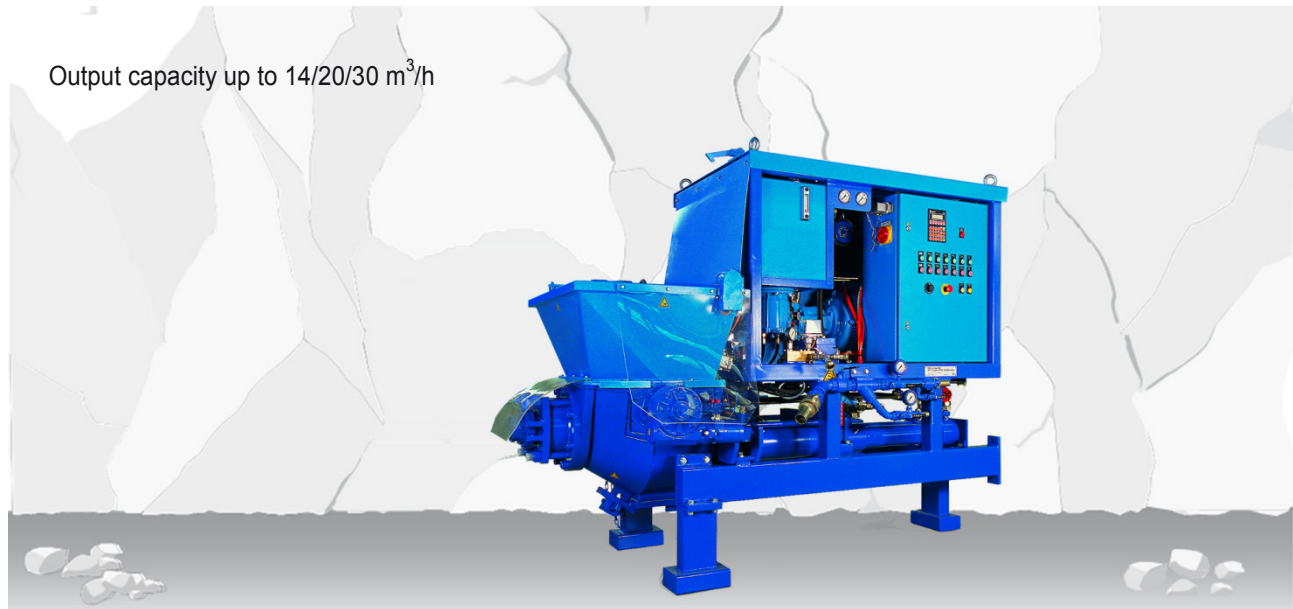


## Atlas Copco Sprayed concrete pumps

# MEYCO Suprema

Available with wet nozzle systems from Ø 50 to Ø 80 mm



Output capacity up to 14/20/30 m<sup>3</sup>/h

PLC controlled, electro-hydraulic wet mix spraying machine for medium to large volumes of sprayed concrete.

## Standard features

### » Sprayed concrete pump

- Suprema double piston pump with MEYCO Push-over system for minimum pulsation
- Automatic reverse function for pressure relief (blockage)
- Wear optimized components for maximum service life
- Sturdy hopper and grill design for concrete containing fibers
- Hard chromium plated conveying cylinders
- Modern hydraulic control and automatic stroke adjustment
- Adjustable S-tube and equalization at the wear plate

### » Dosing system

- Dosa high accuracy dosing system for liquid accelerators with instant adjustment of accelerator volume with flow meter and rotor/stator-pump
- Real-time adjustment of accelerator volume
- Auto-stop for accelerator under dosage
- Low maintenance, pulsation free pumping optimized for alkali free accelerators. Real-time adjustment of accelerator volume

### » Control system

- PLC control system in easy access control box
- Display with keyboard
- Data logging for production and fault data

### » General

- External air supply with air pressure reducing unit
- Grill-mounted vibrator
- Agitator with four mixing paddles in feeding hopper
- Sluice box for cleaning, lubrication and cooling of the conveying cylinders
- Cleaning port in hopper
- Central lubrication
- Toolbox

# Specification

## » Control system

- PLC including closed loop control of dosing system
- Flow-meter, dry-run protection and over pressure switch for accelerator
- Display with keyboard for application parameters and system messages
- Data logger
- USB-port for data logger
- Hour meter counter

## » Electrical system

- Supply voltage ..... 3x 400 V/50 Hz
- Control system ..... 24 VDC
- Electric motor:
  - Suprema 30 ..... 45 kW
  - Suprema 14/20 ..... 30 kW
- Dosing pump ..... 0.75 kW
- Vibrator ..... 3x 400 V/50 Hz
- Socket with phase changing switch ..... CEE 3P/N/E, 63 A

## » Hydraulic system

- Hydraulic pumps ..... 3
- Hydraulic oil tank volume ..... 150 l
- Push-over system for equalization of conveying gap
- Separate pump with accumulator for S-tube
- Oil cooler with fan
- Filtration ..... 10 µm

## » Sprayed concrete pump

- Sprayed concrete pump max theoretical capacity:
  - Suprema 30 at 50 bar ..... 30 m<sup>3</sup>/h
  - Suprema 20 at 50 bar ..... 20 m<sup>3</sup>/h
  - Suprema 14 at 75 bar ..... 14 m<sup>3</sup>/h
- Pump/ Hydraulic cylinder:
  - Suprema 30 ..... ø80/180 mm
  - Suprema 20 ..... ø80/150 mm
  - Suprema 14 ..... ø100/150 mm
- Piston Stroke ..... 600 mm
- S-shape swing tube ..... 150/100 mm
- Feeding hopper ..... 250 l
- Central lubrication for pump unit (hand pump)

## » Dosing pump

- Dosing pump max capacity at 10 bar ..... 24 l/min
- Viscosity of media, max ..... 1000 MPas
- pH-value of accelerator ..... < 2.5

## » Miscellaneous

- Pump outlet ..... ø 100 mm/4"
- Conveying distance/height, max. .... 300/100 m
- Grain size recommended for spraying, max. .... 8 mm
- Grain size recommended for pumping, max. .... 1/3 i.d.
- Software for data evaluation

# Specification

## Optional Equipment

### » Spraying-/Nozzle system

- Conveying-/Nozzle system..... 80/65/50 mm

### » Electrical system

- Cable remote control ..... 40 m
- Extension for cable remote control..... 40 m
- Additional receiver for radio remote control (Oruga-Suprema)
- Supply voltage..... 3x 440 V/60 Hz
- Working lights LED 24 VDC ..... 1x 50 W

### » Hydraulic system

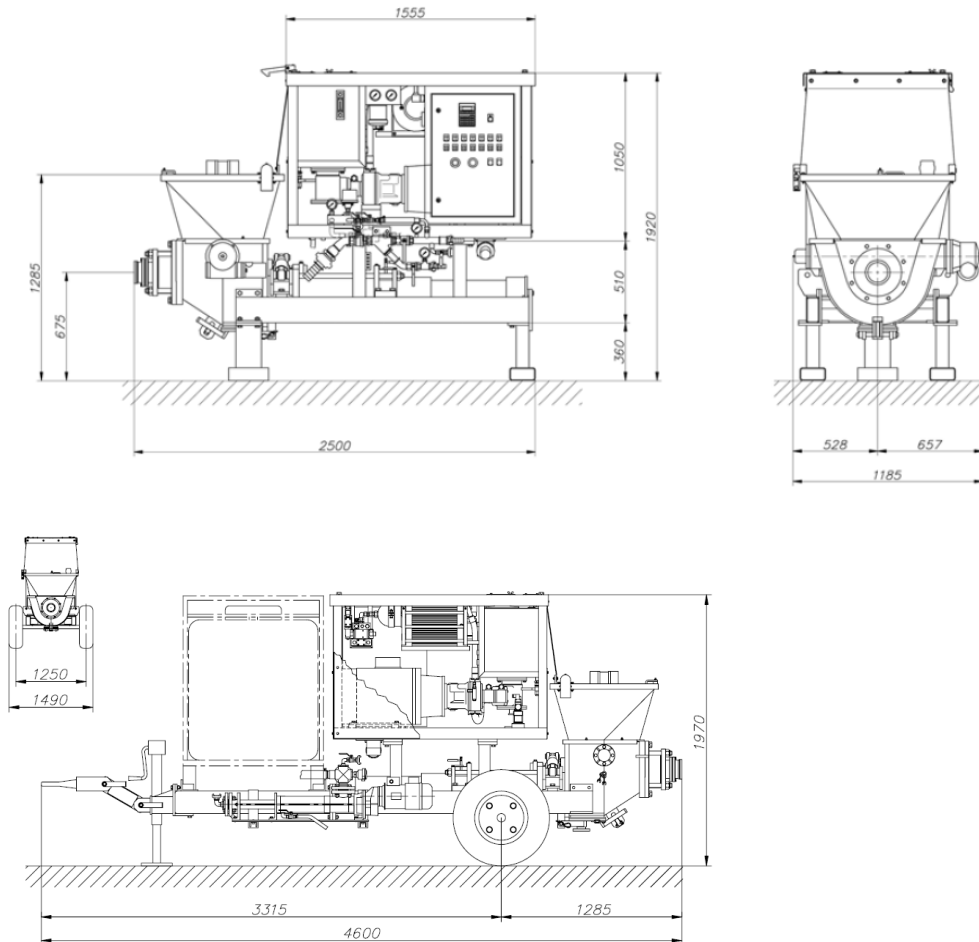
- Biodegradable hydraulic oil

### » Miscellaneous

- Accelerator tank ..... 1000 l
- Heating and insulation of accelerator tank..... 230 V, 2700 W
- Low profile feeding hopper ..... 120 l
- Split version (flat pack, power pack and control system)
- Trailer chassis with/without frame for accelerator tank  
(not for public roads)

# Specification Measurements

## SIDE VIEW



### DIMENSIONS

mm	Dimension	Value
	Width	1185
	Height	1920
	Length	2500
	Hopper filling height	1285
	Width trailer	1490
	Height trailer	1970
	Length trailer	4600
	Hopper filling height trailer	1300

### WEIGHT

gross weight		
kg	Total	2300
	Total trailer	2600