

Concrete spraying machine

MEYCO Suprema



Solutions for tunneling and mining

MEYCO

Overview

The MEYCO® Suprema has been the ultimate wet-spraying solution in the industry since 1992. Today there are well over 300 machines in operation worldwide. The MEYCO Suprema fulfils all the requirements of what is demanded of a concrete spraying machine today: simple operation, complete control and, of course, a high-quality, sprayed concrete as the end result.



Features



1 Compact design enables easy integration crosswise in to any kind of carrier chassis. Trailer version is also available.



3 The operating parameters are always visible on the display. Troubleshooting can be done using the display functions.



5 The machine can easily be split into two parts, a) the flat pack and b) the electro hydraulic power pack and control box. Vital when space is very confined, for example in a TBM.



7 MEYCO Data for compiling and extracting performance data, transferring to PC for processing and evaluation.



2 The integrated MEYCO Dosa TDC (Total Dosing Control) dosing system for liquid additives guarantees constant dosing analog showing the spraying capacity.

4 Setting of the desired values by using the keyboard. Once set, the amount of additive is kept constant through the interaction of flowmeter, frequency converter and controller.

6 Double piston pump with S-tube and special push-over system through a proportional valve in coordination with the PLC control system – a MEYCO patent – eliminates pulsation almost entirely.

8 Automatically reversing pistons relieve the delivery system when blocked.

9 Three independent oil pressure circuits.

10 Rapid change over S-tube with reservoir and auxiliary pump. Self-sealing, superhard sealing ring and plate.

11 Tough hopper and grill designed for work with steel fibres.

Minimum installation and down times.

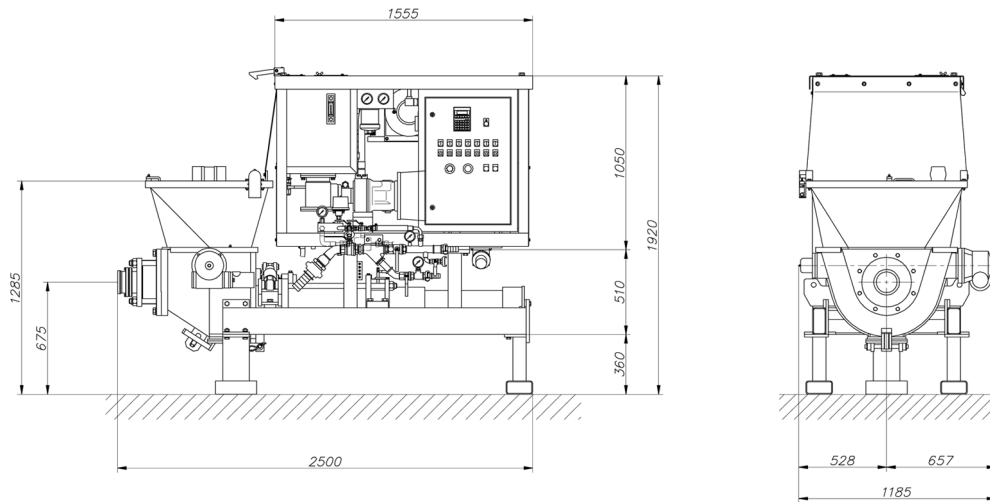


Applications



The MEYCO Suprema is used for the delivery and spraying of wet-mix concrete. Typical sprayed applications are permanent and temporary rock support in tunnels and mining. The MEYCO Suprema is perfect for all jobs where quality and efficiency of application are essential. This includes any situation where a high output, a dust-free environment, low rebound and accurate admixture dosing are required. For sites where quality management is in operation the MEYCO Suprema is the obvious choice, thanks to its accurate dosing and unique data logging and extraction facility. Pumping of critical, thick and stiff mixes poses no problem for the MEYCO Suprema, because it delivers the mix at up to 75 bar. The entire system is designed for mixes containing steel fibres.

Technical specifications



Weight	Basic version on skids, dry		≈ 2 200 kg
Power/Drive	Input supply voltage		3x400/50 V/Hz
	Concrete pump		30 kW
	Dosing pump		0.75 kW
	Protection class		55 IP
Hydraulic	Main pump	P max.	190 bar
		Q max.	105 l/min
	Oil tank		150 l
Delivery	Max. distance*		≈ 300 m
	Max. height*		≈ 100 m
Capacity	Max. theoretical at constant 75 bar*		2-14 m ³ /h
	Max. theoretical at constant 50 bar*		3-20 m ³ /h
	Max. theoretical at constant 50 bar* (on request)		8-30 m ³ /h
	Hard chromium plated conveying cylinder	Stroke	600 mm
Delivery system	S-shaped swing tube	Diameter	150 mm
	Pipe and hose sizes, dependent on application		150/100 mm
	Recommended max. grain size for spraying		100, 80, 65 or 50 mm
	Recommended max. grain size for pumping		8 mm
	Maximum grain size for pumping		1/3 pipe i.d.
Dosing pump	Rotor/stator		
	Capacity at 6 bar		24 l/min

Important | *Pump performances including maximum volumes are based on theoretical, 100 % filling capacities. Delivery heights and distances are based on experience but are highly dependent on the granulometry, cement content and plasticity of the concrete.

Certified quality



Our products conform to EU standards



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