

Solutions for tunneling and mining

MEYCO Suprema



Expanding Horizons

Underground

MEYCO

MEYCO Suprema | 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 onto any kind of carrier chassis. Trailer version is also available.



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



3+4 The operating parameters are always visible on the display. Troubleshooting can be done using the display functions.

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.



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.

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.



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

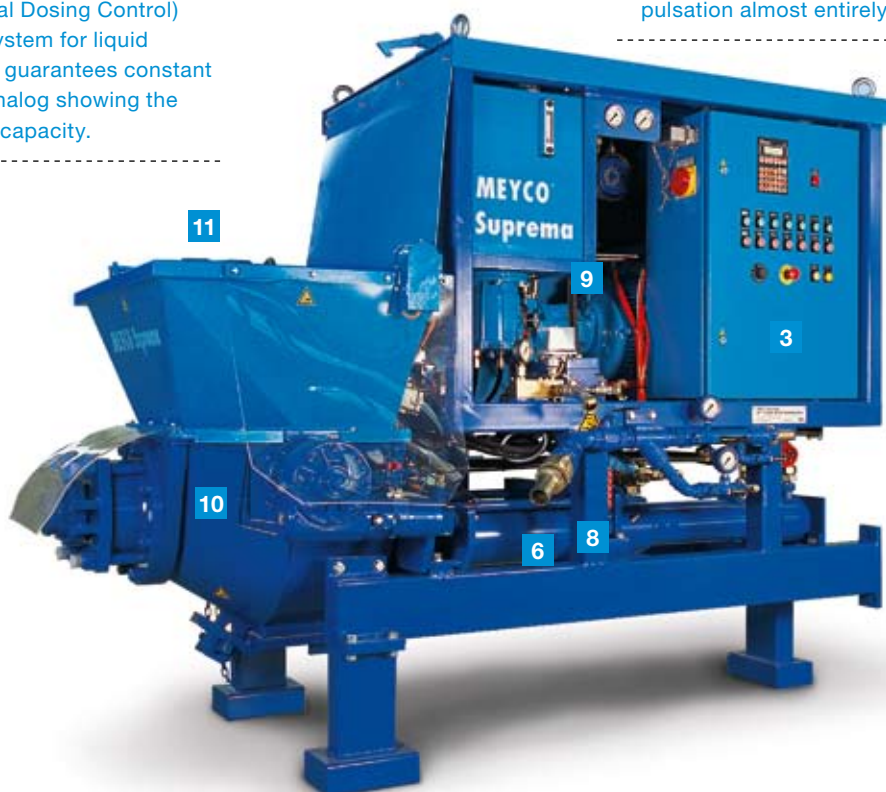
8 Automatically reversing pistons relieve the delivery system when blocked.

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.

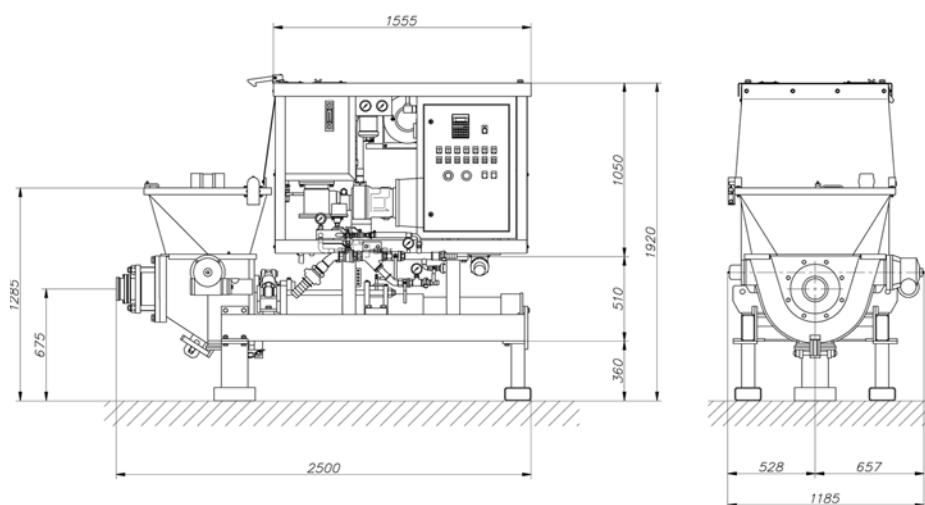


Applications

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 feet, dry	≈ 2200	kg
Power/Drive	Input supply voltage	3 x 400/50	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	m³/h
	Max. theoretical at constant 50 bar*	3–20	m³/h
	Max. theoretical at constant 50 bar* (on request)	8–30	m³/h
Delivery system	Hard chromium-plated cylinders	Stroke	600 mm
		Diameter	150 mm
	S-shaped swing tube		150/100 mm
	Pipe and hose sizes, dependent on application		100, 80, 65 or 50 mm
	Recommended max. grain size for spraying		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.

**BASF Construction Chemicals Europe AG
MEYCO Equipment**

Hegmattenstrasse 24
8404 Winterthur, Switzerland
Phone +41 58 958 27 00
E-mail meyco@basf.com

BASF Construction Chemicals

UAE LLC
P.O. Box 37127
Dubai, UAE
Phone +971 4 809 0800
Fax +971 4 885 1002

BASF Construction Chemicals

23700 Chagrin Boulevard
Cleveland, OH 44122-5554, USA
Phone +1-216-839 7500
Fax +1-216-839 8821
E-mail admixtures@basf.com

BASF SA

Av. Brigadeiro Faria Lima, 3600
Andares do 8º ao 14º
04538-132 São Paulo – SP, Brazil
Phone +55 11 2718 5507
E-mail vendas-eb@basf.com

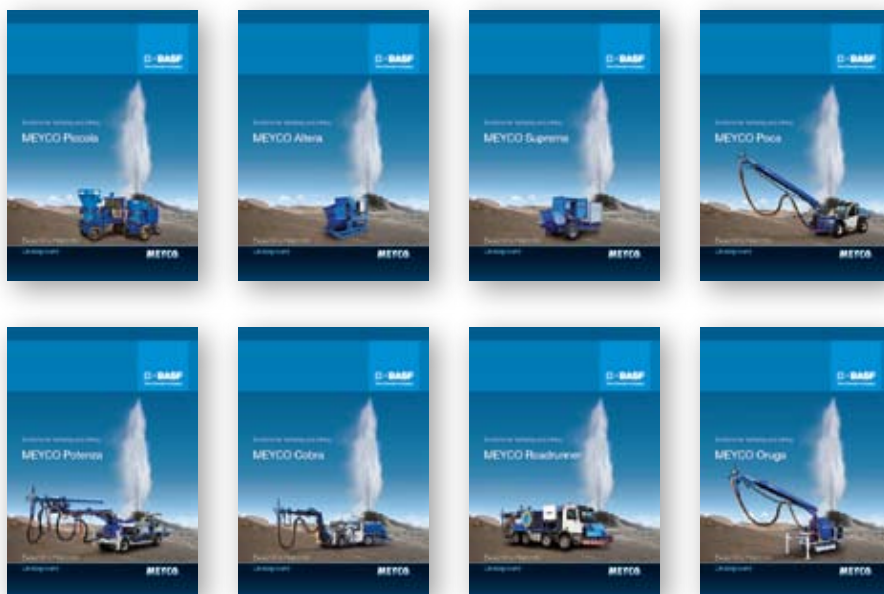
**BASF Construction Chemicals Australia
Pty Ltd**

11 Stanton Road
Seven Hills NSW 2147, Australia
Phone +61 2 8811 4200
Fax +61 2 8811 3299

BASF Construction Chemicals Asia Pacific

14/F, Harbour Ring Plaza
18 Xizang Road M.
Shanghai, 200001, P.R. China
Phone +8621 2320 3000
E-mail infotmc-ap@basf.com

Brochures on our equipment solutions are available at www.meyco.basf.com



MEYCO Customer service

MEYCO, its affiliated companies and selected representatives worldwide offer competent advice, prompt service and efficient training for your personnel. We maintain service support centres in Switzerland, Germany, Norway, Turkey, USA, South and Central America, Middle East, China, India, South East Asia and Australia.

Being a part of BASF, The Chemical Company, is a major factor in our success. Technical and design modifications remain reserved at all times.

Technical properties have been achieved under theoretical and normal conditions. Please consult the respective machine manual for all matters related to safety, operation and maintenance.

MEYCO® 02/11/AB Crea

Certified quality



Our products conform
to EU standards

