

Aliva[®] 263i



SHOTCRETING MACHINES
for wet and dry mixes

Manufactured under licence from Sika, Switzerland

 **MEKASTER**
VISION FOR PERFECTION

Flexible in Function and

Aliva[®] 263i Shotcreting Machine

Configuration

Simple but multi functional



Description

The Aliva 263i is a very sturdily constructed two-axle shotcreting machine for the processing of wet or dry mixes

Working principle

The working of the shotcreting machines is based on the rotor principle. The concrete mix is transported by thin stream method (compressed air stream) to the spraying nozzle.

Gasket plate lubrication

Automatic lubrication of sealing plates reduce wear and abrasion and thus maintenance costs.

Original accessories

A large number of well matched accessories allow maximum machine output with high-quality results.

Theoretical Performances

Rotor Volume: 10 / 16/ 25 litres

Output: 10-15m³/h

Operation

precise and variable



Pulsation free

Thanks to pulsation free conveyance the thin-stream process is also suitable for manual spraying.

Liquid dosing unit

The dosage unit is coupled to the shotcreting machine. The selected accelerator dose is automatically adapted in function of the output of the shotcreting machine.

Concrete mix as desired

Shotcreting machine Aliva 263i is suitable for spraying wet and dry mixes. Case by case you can choose the optimal process. Switching over from dry mix spraying to wet mix spraying can be done without any modification of the machine and without any additional machine components. No need for a pumpable mix with the wet spraying thin stream method. Minimum slump: 8 cm



Simple maintenance

Cleaning of the machines is extremely simple and quick. Hopper and feeder drum swing open thanks to a rotating mechanism.

and versatile in use...

Aliva® 263i Shotcreting Machine

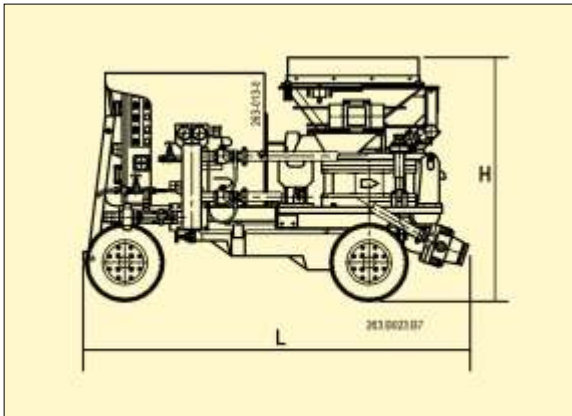


Product Description

This Aliva 263i is a very sturdily constructed two-axle shotcreting machine for the processing of wet or dry mix.

Uses

The machine is suitable either for manual spraying or by means of a robotic arm. The Aliva 263i is developed for the application of shotcrete in tunnels, mines and slopes. The machine has been designed especially for steel fibre spraying.



Product Data

Technical Data

Dimensions

Length L 2035 mm

Width 1100 mm

Height H

With rotor 10 + 16 L 1290 mm

With rotor 25 L 1390 mm

With hose rotor 16 L 1390 mm

Weight

BASIC/EXTENDED approx. 1450 kg

Content of hopper 100 litres

Drive

Motor output 5/7,5 kW

Speed range 1000/1500 rpm

Voltages 400 V 50 Hz

Protection IP 55

Theoretical Conveying Output (Wet & Dry)

Rotor L	House mm	Conveying output*m3/h		max. grain mm	max. Conveying distance m horizontal/vertical
		Speed 1	Speed 2		
10	50 + 60	4	6	16 + 20	Dry: 300/100 Wet: 40 / 30
16	50** + 60	6	9.5	16 + 20	
25	60** + 65	10	15	20	

* With theoretical filling degree of 100%.

** Only when dry spraying, with speed 1 , for conveying distance of max. 60m.

Aliva[®] 403 Liquid Dosing Unit



Product Description

The appropriately sized dosing unit Aliva 403 for Liquid accelerators enables an infinite setting of accelerator.

Uses

The Unit is equipped with a simple control which is done entirely on the dosing unit itself, i.e. the amount off additive is set manually by means of the dosing knob.

Drive

Motor output 0.75 KW
Voltage 400 V 50 HZ

Theoretical Conveying

Conveying output 24-240 l/h
Output pressure max. 7 bar

Aliva[®] 302 Telescope Spraying Arm (Robo Arm)



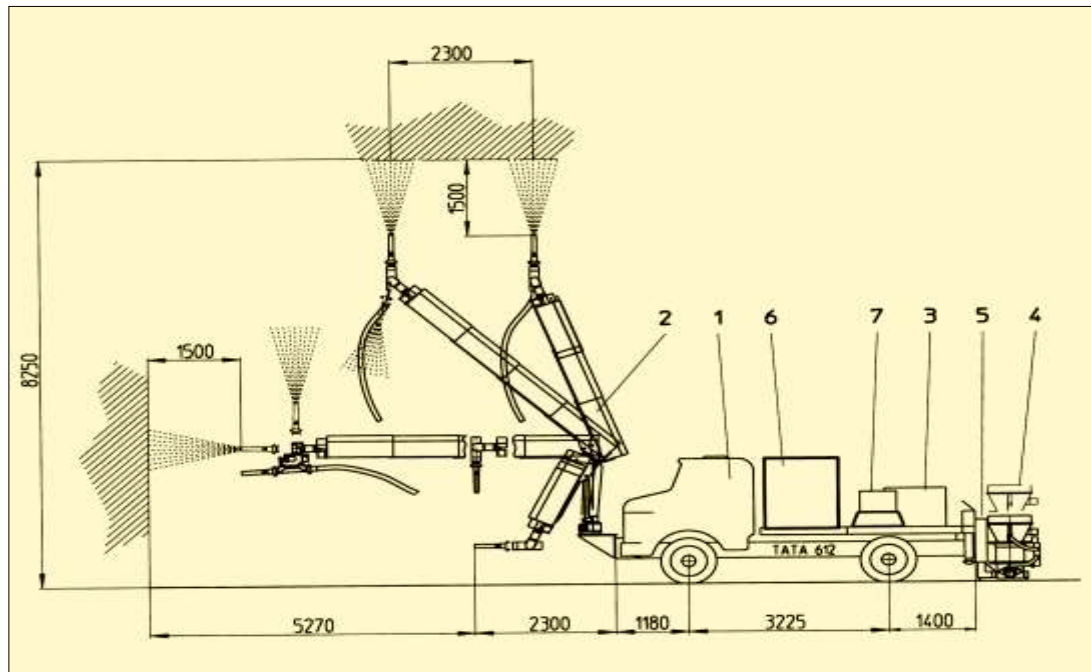
Uses

Thanks to its simple and rigid construction, the Aliva 302 is very suitable for mounting onto different types of carriers.

Hydraulic System

Motor output 5.5 KW
Voltages 400 V 50/Hz
Protection IP 43
Oil Pressure 180 bar

Aliva[®] 407 Shotcreting System with Local Made Carrier



1. Carrier TATA
2. Telescopic Spraying Arm AL-302
3. Hydraulic Unit for AL-302
4. Shotcreting Machine AL-263i
5. Lifting Platform for AL-263i
6. Accelerator Tank
7. Liquid Dosing Unit AL-403
8. Cable Reel (50 m Cable manual)



Mobility

The Aliva 263i along with the Aliva 302 Telescopic Spraying (Robot) Arm and the Liquid Dosing Unit can be mounted on a local truck chassis (e.g. Tata SK 1613 or Leyland 1613s) to form an integrated shotcreting unit.

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