

SHOTCRETE PUMP SC 271/160

The Scamac SC271/160 is a fully mechanized shotcrete equipment mounted on a high mobility wheeled vehicle, specifically designed to operate in large tunnels. Compactly designed, the SC 271/160 is equipped with a diesel engine for vehicle movement which can be used also for powering the complete shotcrete equipment. For the shotcrete operation the pump is powered as well by an electric motor.

Standard Characteristics

- 4 wheel drive and 4 wheel steering vehicle with reversible driving seat, operator canopy;
- Powerful water cooled diesel engine;
- 2 sturdy hydraulically extendable support legs for highest stability;
- Articulated boom available in three different versions, high mobility nozzle support and terminal feed, stroke 2m, which can be aligned to the surface to be lined for having a smooth and continuous operation, boom rotation on the vertical and horizontal
- Concrete pump 2-32 m³/h equipped with long stroke cylinders;
- Additive pump suitable for sodium silicate or alkali free complete of automatic metering system;
- Cable reel complete of 90 m of electric cable, water pump, water and additive tanks;
- Remote control system for controlling all pump functions (pump, boom and additive).

The equipment is complete of concrete, additive and air hoses and all the necessary accessories to be put it in operation.

Dimensions and weight transport						
Length		7.800	mm			
Width		2.400	mm			
Height		3.450	mm			
Weight		14.000	kg			
Carrier						
Diesel motor (other available)		IVECO AIFO Diesel				
Starter		electric				
Power rating		85	kW			
Truck gauge		2.000	mm			
Transmission		hydrostatic HP HMT flow				
		pump 4WD				
Steering		4 wheels steering				
Steering mode		4 (front, rear, rear & front				
		parallel and opposite)				
Service brake	hyc	ydraulic brake oil bath discs				
Parking brake		negative parking brake				
Stabilizers operation		fully Hydraulic				
Axles	re	rear & front planetary red.				
		self-blocking front. axle				
Driving seat		reversible				
Driver cabin		protective canopy				
Fuel tank		50	l			
Electric system		24	V			
Speed ½		2/5 Km/h				
Speed 3/4 10/20 Kr						
Control						
Carriage		operator cab				
Stabilizers, cable reel and water pump		hand levers				
Boom/pump and additive system		remote control				





Concrete pump					
Pump	SC 271/160				
Cylinder Diameter	160 mm				
Cylinder stroke	1000 mm				
Stokes per minute	0-28				
Capacity	2-32m ³ /h				
Max grain size	32 mm				
Pump output	5"				
Hopper capacity	500 l				
Electric motor	45 kW/400V/%0 Hz				
Accessories					
Cable reel capacity	90 m				
Additive pump	piston diaphragm				
Capacity	0-20 l/min				
Pressure	0-15 bar				
Water pump	piston				
Capacity	45 l/min				
Pressure	150				
Additive tank capacity	2000				
Water tank capacity	1000 l				
Pump Hydraulic system					
	1 HMT variable displ. for				
	cylinder circuit				
Hydraulic pumps	1 variable displ. Constant				
Tryuruane pamps	press. For boom circuit				
	2 gear pumps for pump valve				
	and services				
Oil Tank	300 l				
Cooler	oil cooler electrically				
	operated				
Optional					
Radio remote control (std cable remote control)					
Working light 2x500W					
Additive automatic metering system					







Boom				
Туре	SC 305.1	SC 305.2	SC 305.3	SC 405
Max covering	5.400	8.900	9.500	12.500
Height (mm)				
Max covering width	7.000	12.000	14.500	18.000
(mm)				
Centre of rotation	2.300	2.900	2.900	2.900
Height(mm)				
Max range at max	3.700	4.500	5.000	7.000
height (mm)				
Min. working radius	2.000	3.000	3.000	3.000
measured from				
nozzle rotation				
centre (mm)				
Pipe max dia	4"	4"	4"	4"









