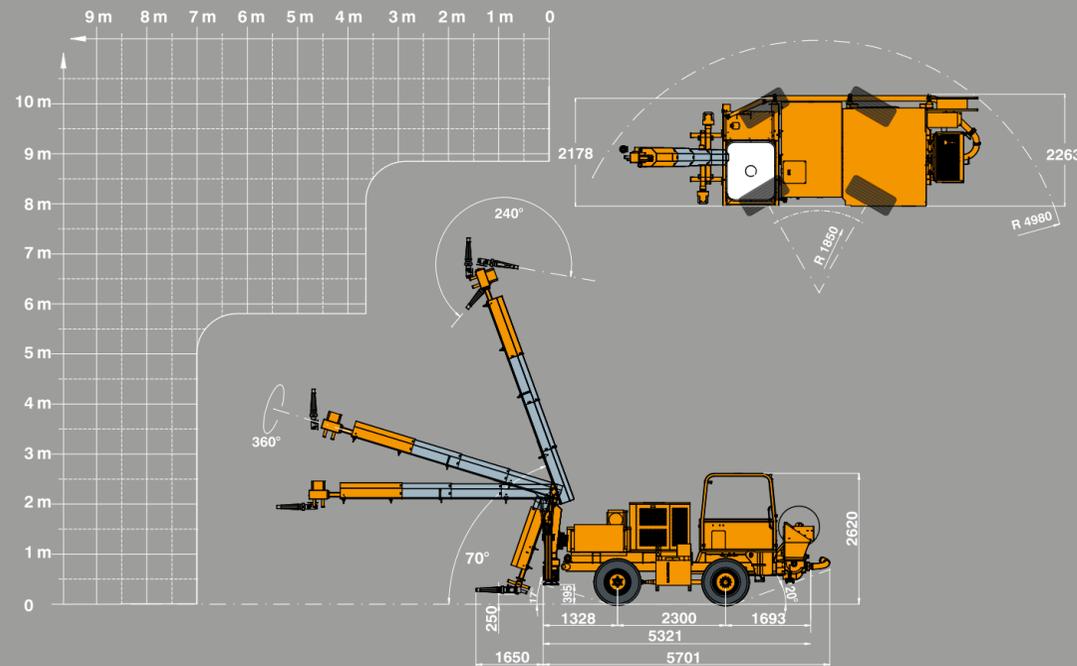
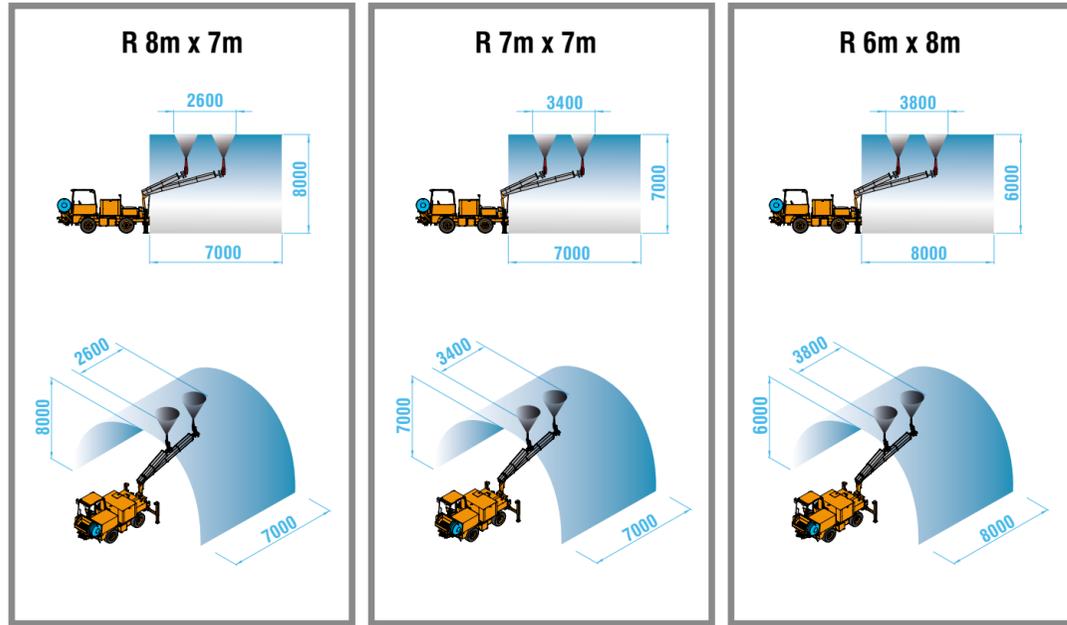


Dragon functional operation



DRAGON		
TECHNICAL DATA	DRAGON 50 Hz	DRAGON 60 Hz
Diesel engine (traction)	Yanmar – liquid cooled – 33 kW	Deutz – air/oil cooled – 54 kW
Electric motor (pumping)	30 kW	30 kW
Air compressor motor	37 kW	44 kW
Theoretical concrete output*2	15 m³/h	
Air compressor output	6.500 l/min	
Pumping cylinders	ø 120 mm (with stroke 700 mm)	
Max pressure on concrete	80 bar	
Max pump strokes per minute	30	
Dosing pump*2	16 l/min	
Admixture tank capacity	600 l (1000 l. optional)	
Water tank capacity	200 l	
Telescopic spraying boom - max height	8,9 m	
Telescopic spraying boom - max distance	7,1 m	
Transmission	hydrostatic with mechanical gear box	
Drive	4 wheel drive - 4 wheel steering	
Size (LxPxH)	5321 x 2263 x 2620	
Weight	5300 kg	
Weight with compressor	6600 kg	

*2 These data are not absolute but depend on the quality of the materials to be pumped, their consistency, wear and tear of the pump and the diameter of the hoses being used. The performance in distance and height can not be reached simultaneously.



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= ISO 9001:2008 =

The equipment on the models and the optional could vary due to specific market and legal requirements. The data in this brochure are purely indicative. Turbosol Produzione S.p.A. could make alterations to the models described in this brochure at any time for technical and commercial reasons.

DRAGON

- PUMPING GROUP**
- Open circuit with self-compensating automatic sequence
 - Anti-wear materials
 - Hopper with sieve and electric vibrator

- TRUCK**
- Chassis with high yield point steel
 - 2 independent axles with permanent integral transmission
 - 4 wheel hydraulic steering, front, front and rear opposite and concordant side
 - Hydrostatic automotive transmission with 2 automatic speed
 - Mechanical 2 speed gearbox and mechanical control

- BOOM**
- Box beams in high yield point steel
 - 4 sections with protection cover telescopic boom
 - 3D manoeuvring
 - Brush movement kit for nozzle
 - Auxiliary lights

- ADMIXTURE DOSING PUMP**
- Hydraulic screw type pump
 - Constant ratio between additives and concrete

- OPTIONALS**
- Air compressor

TURBOSOL
over 60 years
of experience
and reliability

DRAGON
CONCRETE
SPRAYING
SYSTEM



TURBOSOL DRAGON COMPACT. VERSATILE. AND HIGH PERFORMANCE UNIT FOR YOUR UNDERGROUND SHOTCRETE WORKS

DRAGON CONCRETE SPRAYING SYSTEM



Carrier

Front load-bearing and steering with planetary reduction gears on the wheel hubs. Rear load-bearing oscillating ($\pm 5^\circ$) and steering with planetary reduction gears on the wheel hubs and directly flanged gearbox. Front and rear tyres: 12.0/75 - 18" PR, 12 TR3.

4X4 FWD

Hydrostatic "automotive" transmission with variable displacement pump and variable displacement hydraulic motor with electro-hydraulic control, and reverse gear control on the steering wheel. Mechanical gearbox for "working speed" and "road transfer" speed, with mechanical control.

Brakes

Internal oil-bath disc service and emergency brakes acting on the 4 wheels, activation with pump on independent dual circuit. Drum parking brake on the front axle with lever control.

Speed

4 forward gears 2 reverse gears
I° 0 - 4.6 Km/h 0 - 4.6 Km/h
II° 0 - 7.2 Km/h 0 - 4.6 Km/h
III° 0 - 12.9 Km/h 0 - 12.9 Km/h
IV° 0 - 20.5 Km/h 0 - 12.9 Km/h
Traction / weight ratio 60%.

Steering

Assisted by means of power steering on 4 steering wheels; steering selection device for: 2 steering wheels, 4 steering wheels - crab steering.



Cabin

Open cabin FOPS with 180° swivelling driving post, high sitting position for improved visibility. 4 working lights for moving in tunnels.

Controls

Simplified remote control operation by radio (with 2 joysticks) or by cable of 15m. The main functions: pumping, dosing, boom movement and accelerator adjustment can be performed with remote control. Input of cement content, desired dosing ratio and accelerator weight can be easily introduced in the switchboard with display. Additive dosing ratio remains constant when changing the pumping volumes. Easy concrete volume adjustment through control valve.

Admixture dosing pump

Increased capacity additive tank of 600 liters easy to refill and change (1000 l. optional). Screw type pump for pulsation free effect, stainless steel rotor to avoid corrosion and running dry protection ideal for all accelerators even alkali-free. Electronic output meter.



Pumping Group

Double piston pump with 15 m³/h theoretical capacity. Pumping system and fast exchange of the valve for pulsation-free spraying. Antiwear materials. Ergonomical design for faster cleaning and easier maintenance operations. Sieve with electric vibrator ideal to be used with steel fibres. Central lubrication block fixed next to the hopper. 130 bar high pressure cleaner with tank of 200 liters.

Electrics

Every electric component is marked and easy to identify. Working lights: 2x 500W placed on the spraying boom, plus 2 extra-lights on the concrete pump and working areas. 50 meters of electric supply cables with manual reel.

Compressor

Powerful screw type compressor of 6.500 liters/min. (upon request).

Boom

Great manoeuvrability of the telescopic boom with 4 section box beams in high yield point steel, with protection cover and guide bushing for smooth operations. Front hydraulic stabilizers with shaft protection.

Nozzle system

High pressure rubber hose diameter 65mm for concrete, high quality air and additive hose. Automatic brush movement for the nozzle, rotation 360°, inclination 240°. Easy cleaning of the nozzle group.