



# BITELLI®

# BB 650

PAVER FINISHER



The machine shown can be fitted with additional equipment

## ENGINE

Make	Deutz F5L 912
Cylinders	5
Cooling system	air
Output at 2500 rpm (DIN 6271)	68 kW (92.5 HP)
Electric system	24 V

## SPEED

1 <sup>st</sup> gear (work)	0÷60 m/min
2 <sup>nd</sup> gear (travel)	0÷14 km/h

## SCREED RB 4650 VB

Hydraulically extending screed width	2.50÷4.65 m
with 2 extensions (0.20 m each) (optional)	max 5.15 m
with 2 extensions (0.625 m each) (optional)	max 6.00 m
Smoothing plate width	330 mm
thickness	15 mm
LPG heating	8 burners
Tamper vibration frequency	
1000÷1850 rpm	(16.7÷30.8 Hz)
Smoothing plate vibration frequency	
1000÷3400 rpm	(16.7÷56.7 Hz)

## TECHNICAL SPECS

Transmission	hydrostatic
Steering bogey wheels	550 x 300 mm
Drive wheels	17.5-25
Steering	power steering
Turning radius - inside/outside	3.60/6.70 m
Operating weight	13500 kg
Hopper capacity (tunnel included)	11 t
Hopper discharge height - at centre	430 mm
- at sides	550 mm
Augers	Ø 325 mm

## PERFORMANCES

Max production	450 t/h
Mat thickness	5÷300 mm

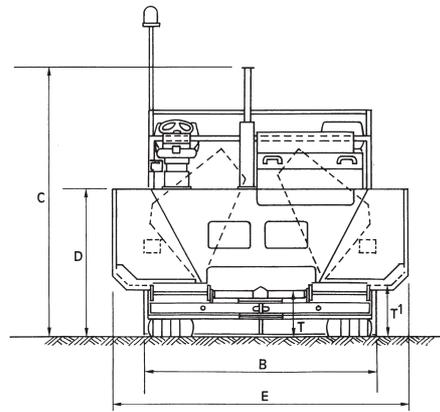
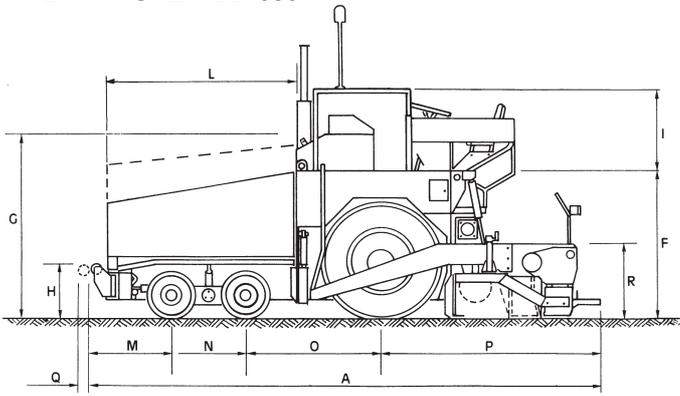
## TANK CAPACITIES

Fuel	115 l
Hydraulic oil	190 l
Ecological liquid	30 l

*BB 650 - RB 4650 VB with drive on rear axle*

*BB 650 DT - RB 4650 VB with front and rear axle drive*

## PAVER FINISHER BB 650



Dim.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	T	T'
mm	5500	2500	3880	1600	3170	1600	2040	495	750	2000	775	800	1450	2475	100	830	430	550

**CARRIAGE:** triple axle carriage; two steering axles and one rear traction axle. Four large steering bogey wheels mounted on two equalisers. Two oscillating and adjustable push rollers are fixed to the front part of the machine.

**TRANSMISSION:** hydrostatic transmission. A variable-displacement pump feeds the drive system fitted with a fixed-displacement axial piston motor which is directly connected to the gearbox. An electric servo-control consents machine starting and stopping (for asphalt supply, etc.) with no preset working speed variation. Self-locking differential gear with final reduction gears in oil bath.

**SCREED RB 4650 VB:** consists of two central fixed plates and two lateral mobile plates, hydraulically operated, sliding on two chromed telescopic cylindrical guides. The screed plate axis allows modifications of shapes (V  $\wedge$  WM) with different camber angles between +4.5% and -2.5%. Other adjustments allow tamper travel position to be corrected due to wear. When at work with the machine stopped (for asphalt supply, etc.), the pistons lifting the screed automatically block to avoid marking the mat. The smoothing plates are made of wear resisting indeformable steel and are heated by eight gas propane burners. On request the screed can be fitted with electronic ignition and automatic adjustment of the smoothing plate temperature.

**SCREED ASSIST:** the screed is equipped with an electro-hydraulic device maintaining a constant screed pressure on the bituminous mix, independently from the mix bearing capacity and the paving width. It is also possible to transfer part of the screed weight to the drive axle of the machine, thus increasing remarkably its adherence to the ground.

**BRAKES:** the hydrostatic drive acts as the service brake; the safety brake, which consists of is a multi-disk brake with a negative hydraulic control and hydraulic calipers and a brake booster, is controlled by a pedal from the operator's seats; the parking brake is applied by 2 calipers with negative hydraulic control. The safety and parking brakes act on the shafts coupled to the drive wheels.

**OPERATOR'S SEAT:** the machine is fitted with two adjustable seats and a sliding console panel. Sliding operator seats are available on request and can be positioned outside the machine frame in order to guarantee maximum view from both sides of the machine.

**HOPPER AND FEEDING SYSTEM:** the independent movement of the two side wings is obtained by means of two hydraulic cylinders. The bottom plate of the hopper is built of abrasion-proof steel. Two conveyors, independently controlled each side, are made of

wear-resisting steel. Material conveyed to both sides is spread by two augers, each of them independently controlled. Rotation speed varies automatically according to the quantity of material required for a correct feeding of the screed. Four automatic stop feed devices control the conveyors and the augers. A pair of auger extensions are supplied with the machine.

**ELECTRICAL-ELECTRONIC SYSTEM:** an electronic circuit, which governs and operates the hydraulic system, gives the machine an exceptional self-government. 24 V electric system with two 100 A.h batteries. Complete lighting system for work and road circulation.

**CONTROLS:** the machine is hydraulically controlled and electrically operated by means of simple switches. In case of a breakdown all solenoid valves of the hydraulic system can be manually operated so as to avoid machine stops. All main machine components are easy to service.

### ON REQUEST:

- Folding canopy
- Sliding operator seats
- Automatic leveling devices:
  - Grade control, mechanical
  - Combined ultrasound grade control, electronic and mechanical
  - Digital ultrasound grade control with 5 sensors
  - Slope control
  - Digital slope control
- Ski 6 m for grade control
- Autoleveling ski 6 m for grade control
- Mechanical extension elements with tamper and auger extensions for paving widths up to 6 m
- Mechanical extension elements with tamper for paving widths up to 5.15 m
- Burners electronic ignition with automatic adjustment of screed plate temperature
- Burners electronic ignition with automatic adjustment of extension boxes plate temperature for paving width up to 6 m
- Proportional augers speed with ultrasound electronic control and drive
- Reversible augers
- Auger group height adjustment with hydraulic control
- Rotating side screed bulkheads
- Infrared joint heater
- Motorized screed camber adjustment
- Tropicalization system
- Biodegradable hydraulic oil
- Antifreeze for tires (up to -20°C)
- Front wheel drive



# BITELLI®

Via IV Novembre, 2 - 40061 MINERBIO (Bologna) - ITALY  
Tel. +39-051-6607111 - Fax +39-051-6607115  
www.bitelli.com

ISO 9001 Certified

