BITELLI®

BB 781

TRACKED PAVER FINISHER CE

The machine shown can be fitted with additional equipment

ENGINE	
Make	Caterpillar 3126B ATAAC
6 cylinders	liquid cooling system
Output at 2300 rpm (ISO 1585)	149 kW (200 HP)
Fuel consumption	221.6 g/kWh
Electric system	24 V

SCREED RB 4700 E	
Hydraulically extending screed width	2.50÷4.70 m
with 2 extensions (0.25 m each) (optional)	max 5.20 m
with 2 extensions (0.70 m each) (optional)	max 6.10 m
with 4 extensions (0.70 m each) (optional)	max 7.50 m
Electric heating with thermostatic electronic control	
SCREED RB 4700	
Hydraulically extending screed width	2.50÷4.70 m
with 2 extensions (0.25 m each) (optional)	max 5.20 m
with 2 extensions (0.70 m each) (optional)	max 6.10 m
with 2 extensions (1.00 m each) (optional)	max 6.70 m
with 4 extensions (0.70 m each) (optional)	max 7.50 m
SCREED RB 5700	
Hydraulically extending screed width	3.00÷5.70 m
with 2 extensions (0.70 m each) (optional)	max 7.10 m
with 2 extensions (1.00 m each) (optional)	max 7.70 m
with 4 extensions (0.70 m each) (optional)	max 8.50 m
with 2 x 0.70 m and 2 x 1.00 m extensions (optional)	max 9.10 m
LPG heating	8 burners with electronic ignition
Tamper vibration frequency	0÷1700 rpm (0÷28.3 Hz)
Smoothing plate vibration frequency	0÷3400 rpm (0÷56.7 Hz)

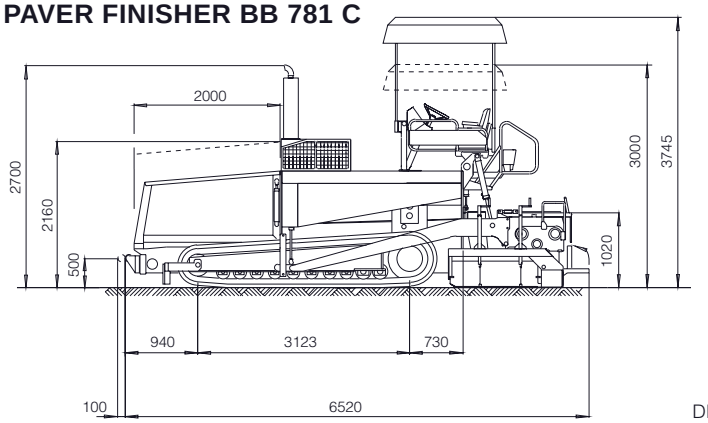
TECHNICAL SPECS	
Transmission	hydrostatic
Track base	3125 mm
Track width	300 mm
Ground pressure (empty weight with RB 5700)	1.15 kg/cm^2
Steering	electronically controlled by altering the speed of each track
Inside turning radius	1.00 m
Operating weight with RB 4700	20900 kg
with RB 5700	21600 kg
Hopper capacity (tunnel included)	12 t
Hopper discharge height - at centre	500 mm
at sides	600 mm
Augers	Ø 360 mm

SPEED	
1st gear (work)	0÷24 m/min
2nd gear (travel)	0÷5 km/h
PERFORMANCES	
Max. production	820 t/h
Mat thickness	5÷350 mm
TANK CAPACITIES	
Fuel	295 l
Hydraulic oil	200 l
Ecological liquid	35 l

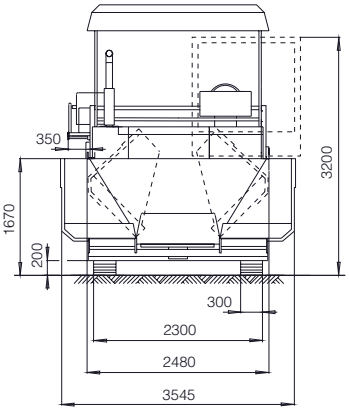
The BB 781 is also available with RB 13000 mechanical screed with LPG heating.

260-00-0104-GB

PAVER FINISHER BB 781 C



DIMENSIONS: mm



CARRIAGE: tracked machine with two rubber shoe crawlers. Track tension is assured by a grease piston with a shock absorbing system.

TRANSMISSION: two hydrostatic transmissions are each fitted with a variable displacement pump feeding fixed displacement axial piston motors directly splined to a two speed gearbox. Planetary final reduction gears in oil bath. An electro-proportional servo-control consents machine starting and stopping (for asphalt supply, etc.) with no pre-set working speed variation.
Machine steering is operated by a steering wheel that acts an electronic digital device that consequently adjusts the right and left track motion guaranteeing a constant speed and direction.

SCREED RB 4700 and RB 5700: the screed plate axis allows modifications of shapes (VΛWM) with different camber angles between +4.5% and -2.5%. Tamper and vibrator are operated automatically when the machine advances following a preset ramp. The tamper stopping and starting ramp can be adjusted electronically. During operation tamper and vibrator adjustment are electrically controlled and can be individually adjusted using potentiometers. Both screeds are fitted with electronic ignition and automatic adjustment of the smoothing plate temperature for central and each mobile plate.

ELECTRIC HEATED SCREED RB 4700 E: with automatic adjustment of the smoothing plate and tamper bar temperature for central and each mobile plate. Rapid screed preheating is obtained at low engine rpm for quiet operation. Heavy-duty, user friendly screed heating control unit with self-diagnostic control.

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 tracks of the machine, thus increasing machine traction.
Whenever the machine is stopped in "stand-by" (for asphalt supply, etc.) a weight relief pressure is automatically inserted to avoid the screed for marking the mat.

BRAKES: the hydrostatic drive acts as the service brake; the safety and parking brakes are mechanical multi-disk brakes with negative hydraulic control.
Parking brake is automatically applied with the machine in STAND-BY mode. When required the brakes can be released manually.

DRIVING POSITION AND CONTROLS: fitted with a folding canopy and two sliding seats. Operator seats and console panel are mounted on pivoting pedestals that permit the operator to rotate to the left or right for enhanced visibility.
The console panel is fully equipped with all main operating controls, propel lever, a multifunctional LCD-display, warning lights and can be positioned in both driving positions. The multifunctional LCD-display provides detailed information regarding the operating parameters of the engine.

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, made of wear-resisting steel, are independently controlled and proportionally driven by two ultrasonic wave detectors.
Material conveyed to both sides is spread by two independently controlled augers. Rotation speed can be varied automatically to ensure a homogeneous distribution of material before the screed.
Two ultrasonic wave detectors control proportional auger movement.
The augers are reversible and their height can be adjusted hydraulically. A pair of auger extensions are supplied with the machine.

ELECTRIC-ELECTRONIC SYSTEM: electronic circuits governing and operating the hydraulic system ensure an exceptional machine self-government allowing the operator to concentrate on driving.
An onboard generator is fitted when the paver is equipped with the RB 4700 E electric screed. The generator provides 25 kW output to power screed heating and also optional lighting assemblies.

ON REQUEST:
- Hydraulic canopy with electric control
- Automatic leveling devices:
  - Grade control - mechanical
  - Grade control - digital and mechanical
  - Digital ultrasound grade control
  - Digital ultrasound grade control - 5 ultrasound sensors
  - Combined ultrasound grade control - electronic and mechanical
  - Sonic ski grade control
  - Laser scanner grade control
  - Slope control
  - Digital slope control
- 6.00 m rigid ski for grade control
- 6.00 m or 9.00 m auto-leveling ski for grade control
- Mechanical extension 3 m for auto-levelling ski
- Mechanical extension elements with tamper and auger extensions for laying widths up to 5.20 m (for RB 4700 and RB 4700 E screeds) and laying widths up to 6.20 m (for RB 5700 screed)
- Mechanical extension elements with tamper, vibrator, auger extensions, wind bracing and electronic ignition for laying widths 7.10, 7.70, 8.50 m and 9.10 m (for RB 5700 screed)
- Mechanical extension elements with tamper, vibrator, auger extensions, wind bracing and electronic ignition for laying widths 6.10, 6.70 and 7.50 m (for RB 4700 screed)
- Mechanical extension elements with tamper, vibrator, auger extensions and wind bracing for laying widths 6.10 and 7.50 m (for RB 4700 E screed)
- Mechanical extension elements of 1.50 m, 0.75 m and 0.25 m with auger extensions, electronic ignition kit and wind bracing for paving widths up to 13.00 m (RB 13000 mechanical screed)
- Rotating side screed bulkheads (for RB 4700 and RB 4700 E)
- Motorized camber adjustment
- Infrared joint heater
- Supplementary working lights package with xenon lights (24V)
- Supplementary working lights package with halogen lights (230V)
- Centralized and automatic lubrication system for tractor and screed
- Refueling pump
- Biodegradable hydraulic oil

BITELLI®

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

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