

BB 730

Wheel-Type Asphalt Paver



BITELLI®

A Caterpillar Company



Operating Weight	7200 kg	15.876 lb
<small>(with RB 320 Screed and RB 3200 Screed)</small>		
Hopper Capacity	7.5 t	8 ton
Standard Paving Width	1.7 m	5.6 ft
Maximum Paving Range	1.70 - 4.00 m	5 ft 7 in - 13 ft
<small>(with RB 320 Screed and RB 3200 Screed)</small>		

Diesel Engine

Four cylinder diesel engine provides quiet performance, high reliability and easy servicing.

Air-cooled system. Engine output to 42 kW (56 HP) at 2300 rpm.

Low transverse-mounted engine. Good cooling performance and accessibility for easy service.

Meets Tier 2 (EPA U.S. standards) and Stage II (European standards). Conforms to emissions engine regulations.



Hydrostatic Drive System

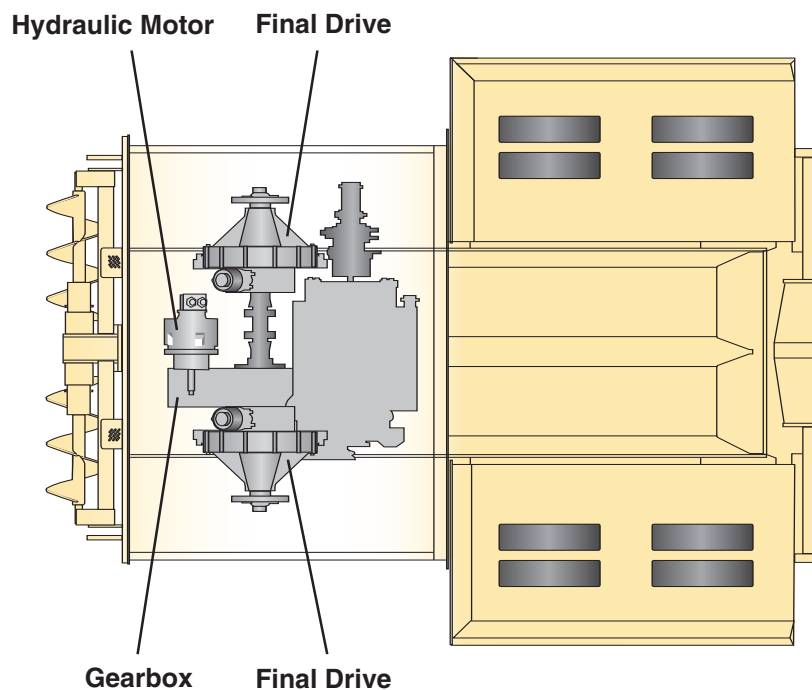
Efficient hydraulic drive system combined with two-speed gearbox eliminates chains between diesel engine and final drive components.

Closed-loop hydrostatic propel system. Efficient, low-maintenance operation.

Propel system. Optimum speed range and easier speed selection. Propel electronic control provides paving smoothness at start and stop.

Infinite speed selection. Four speed ranges, two in working mode and two in travel mode.

New braking groups. Positive brakes and parking brakes provide optimum braking performance and long life components.



Operator's Station

Sliding operator's console provides dual station capability, ergonomics and visibility.

Sliding operator's console.

Roller mounted, permits operation from either side of machine.

Dual-slide feature. Each seat can be moved from side to side and front to back on the pedestal frame, enhancing visibility and ergonomics.

Two ergonomic operator seats.

Easily positioned outside the machine frame to further improve visibility.

Lockable vandal cover. Protects console controls.

Low-mounted engine. Provides unobstructed forward visibility.

Electrical wiring. Protected by a braided harness.



Control Console

Full instrumentation package allows operator to control all major systems.

International symbols.

Shown for all controls.

Analog gauges.

Assure rapid interpretations.

Illuminating warning lights.

Alert operator to:

- High hydraulic oil temperature;
- High engine temperature;
- Low engine oil pressure.

Electric servo-control. Preset working speed is maintained when the paver is stopped and restarted after material reloading operations.



Handling System

Precise mix delivery through the most advanced material handling system.

Left and right feeder/auger units.

Controlled independently of each other.

Two adjustable truck push rollers.

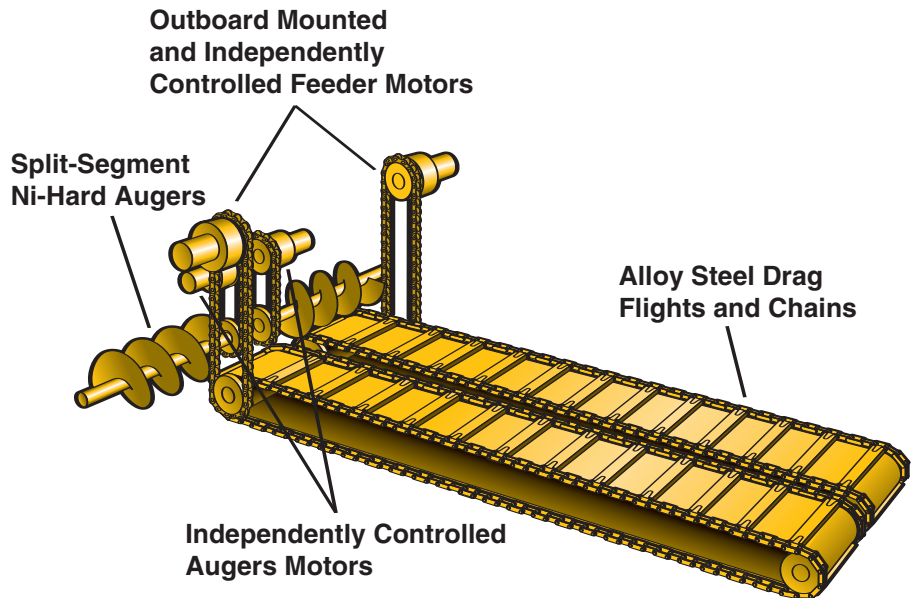
Fitted to the front of the hoppers.

Four paddle sensors.

In automatic mode adjust material flow by controlling auger and conveyor rotation.

Wear-resisting steel.

Provides conveyors and hopper bottom plate for long wear life.



Adjustable Height Auger Assembly

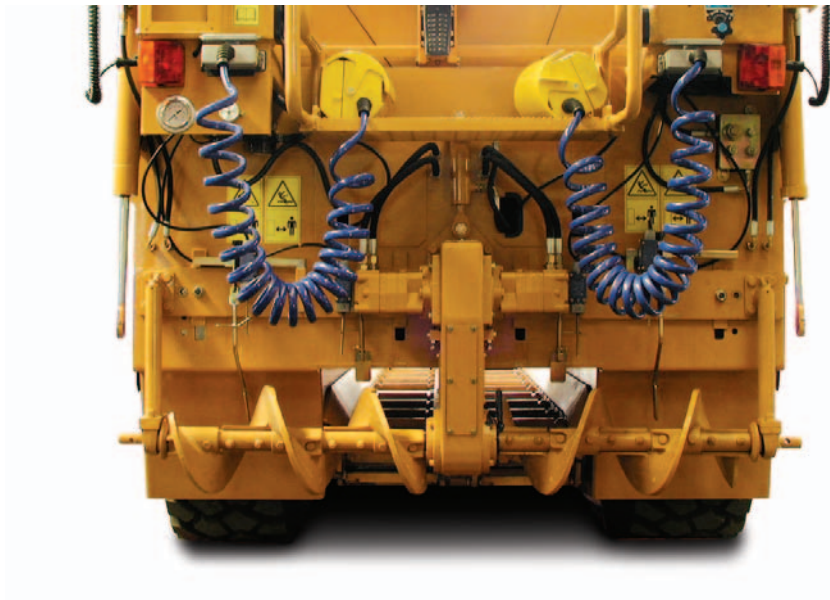
Promotes mat consistency and minimizes segregation.

Working with larger stone mixes.

Segregation can often be eliminated or minimized by raising the augers to allow mix to flow unrestricted under the auger assembly.

Ability to raise the auger assembly.

Simplifies loading and unloading from a transport vehicle.



Serviceability

Simplified service means more paving and less maintenance time.

Large swing-open doors and panels.

Provide access to all service areas.

Transverse engine mounting. Assures ground-level access to hydraulic pumps and engine cooling system.

Low-mounted engine. Easy, ground-level access for servicing.

Long life braking components. Require only a initial adjustment at 100 h.

Easily removable and hinged footboards at operator's station. Easy access to operating components.



RB 320 Screed and RB 3200 Screed

Variable width, power extending screed increases productivity and lowers operating costs.

Model RB 320. Vibrating screed paves from 1.70 m to 3.20 m (5' 6" to 10' 5"). With 2 extensions (0.20 m (8") optional) range max is 3.60 m (11' 8"). With 4 extensions (0.20 m (8") optional) range max is 4.00 m (13'). Smoothing plate vibration frequency from 0 to 3400 rpm (0 to 56.7 Hz).

Model RB 3200. Tamper screed paves from 1.70 m to 3.20 m (5' 6" to 10' 5"). With 2 extensions (0.40 m (16") each (optional) range max is 4.00 m (13'). Tamper frequency from 0 to 1700 rpm (0 to 28.3 Hz).

Vibrator or tamper control. Located at the rear of the machine depending on the screed model fitted.

Screed Assist. Electro-hydraulic device maintains a constant screed pressure on the bituminous mix.



Engine

Deutz F4L 2011 F, four cylinder air-cooled diesel engine. Meets Tier 2 (EPA U.S. standards) and Stage II (European standards) emission requirements.

Ratings at 2,300 RPM	kW	hp
Gross power	42	56

Dimensions

Bore	94 mm	3.6"
Stroke	112 mm	4.4"
Displacement	3108 cu cm	190 cu in

Drive System

The drive utilizes a closed-loop hydrostatic propel system. It drives the rear wheels through a variable displacement pump and dual axial piston motor directly splined to a servo-assisted two-speed gearbox.

Four speed ranges

Work (1 st gear)	0-40 mpm	0-131 fpm
Work (2 nd gear)	0-85 mpm	0-280 fpm
Travel (3 rd gear)	0-10 kmph	0-6 mph
Travel (4 th gear)	0-16 kmph	0-10 mph

Hydraulic Oil Filtration

The hydraulic oil filtering system includes only one multi-function cartridge that ensures optimum filtrage with a longer working life. This system also includes a sensor indicating filter clogging and a warning light fitted to the operator's console panel.

Steering

Steering is full power via an automotive-type steering wheel at the operator's station. The four front steering bogey wheels are fitted to oscillating axle rocker arms that maintain ground contact even on irregular terrain. The wide tread section of the rear tyres assures optimum maneuverability and high tractive performance on all types of terrains and slopes. Bogies are 455 mm (18") wide by 260 mm (10") diameter solid rubber tires.

Inside Turning Radius 3 m (9' 8")

Brakes

The hydrostatic drive acts as the service brake and is hydraulically applied via the propel lever on the operator's console panel. The safety and parking brakes, mechanical multi-disk spring-applied system, are controlled by a pushbutton and automatically applied with the machine in "stand-by" mode.

Operator's Station

Two operator's seats, fitted on sliding platforms, can be easily positioned outside the machine frame to further improve visibility. The operator's seats can be slid from side to side and front to back on the pedestal frame. Station has a complete instrument console.

Operator's Console

Control console with lockable vandal cover includes: steering wheel, left and right hopper raise/lower switches; left and right feeder control switches and reverse buttons; lights/horn switch; propel forward/reverse control lever; speed range selection switch; speed control; engine ignition key; negative parking brake control; screed tamper control switch; screed vibrator control switch; screed lift switch up/down; and screed assist control switch.

Operator's console and station also includes: foot brake pedal; manual/automatic/stand-by mode selector switch; working lights on warning light; direction indicator switch.

Instrumentation

Operator's console includes: system warning light for high hydraulic oil temperature, low hydraulic oil level, and low engine oil pressure; fuel level indicator; warning lights test pushbutton; emergency stop button; alternator warning light; battery isolator; hourmeter.

Electrical System

The 12-volt electrical system utilizes two 12-volt batteries and a 14-volt, 60-amp alternator. The wiring is color coded and number impregnated for easy servicing.

Feeders and Augers

Right and left side augers/feeders operate independently of each other. Feeding conveyors and augers, made of anti-wearing material, can be manually operated from the operator's console or from the screed control panels. In automatic mode, four paddle sensors adjust material flow by controlling auger and conveyor rotation.

Conveyors and augers are reversible. The auger assy is hydraulically adjustable in height. Height adjustment during machine working prevents mat defects or auger shadows.

Hopper

Power hopper dumping, controlled from control console. Heavy-duty flashing prevents material spillage.

Capacity
7.5 t (8 ton)

Discharge height - at centre
480 mm (19")

Discharge height - at sides
520 mm (20.5")

Service Refill Capacities

	Liters	Gallons
Fuel Tank	79.5	21
Hydraulic Oil Tank	85	22.5
Ecological liquid Tank	32	8.5

Weights (approximate)

Tractor with RB320 and RB3200 Screed
7200 kg (15,876 lb)

Sound level

Average sound level at the driving position

$L_{PA} = 84 \text{ dB (A)}$

Test conditions with machine stationary on asphalted surface, engine running at 2300 rpm, work functions OFF.

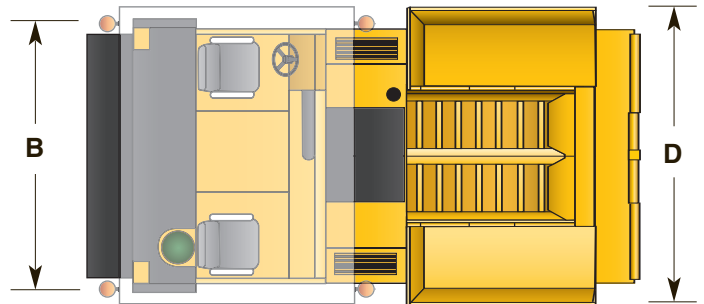
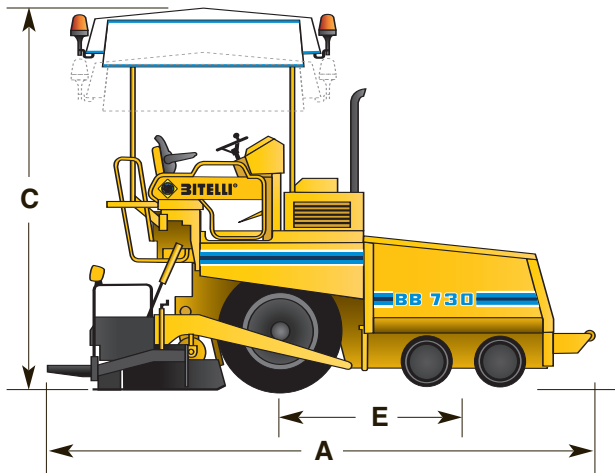
Sound emission in the environment by equipment for use outdoors according to Directive 2000/14/EC.

Sound power level guaranteed for the machine

$L_{WA} = 104 \text{ dB (A)}$

Dimensions

	RB 320 Screed	RB 3200 Screed
A Overall length	4819 mm (15' 9")	4819 mm (15' 9")
B Operating width	3200 mm (10' 5")	3200 mm (10' 5")
with 2 extensions (0.20 m (8") optional)	3600 mm (11' 9")	
with 4 extensions (0.20 m (8") optional)	4000 mm (13' 2")	
with 2 extensions (0.40 m (16") each) optional		4000 mm (13' 2")
C Overall height (with canopy - optional)	3340 mm (11')	3340 mm (11')
Overall height (no canopy)	2216 mm (7' 3")	2216 mm (7' 3")
D Transport width (hoppers raised)	1726 mm (5' 7")	1726 mm (5' 7")
E Wheel base	1615 mm (63")	1615 mm (63")



Optional Equipment

Folding operator's station canopy covers the entire width of the machine with extendible wings. The canopy can be lowered and raised manually facilitating machine transportation.

Hydraulic raising operator's station canopy covers the entire width of the machine with extendible wings. The canopy can be lowered and raised electrically even with the engine not running.

Grade control paddle-type with small rigid ski that rides on the pavement surface.

Ultrasound grade control provides full control for longitudinal grade. The system includes a digital control unit and a multiple ultrasound sensor that detects obstacles or breaks in the reference surface.

Combined ultrasound grade control includes a single control unit with a rigid ski in contact with the reference surface and a

non-contact ultrasound sensor incorporated for maximum flexibility.

Slope control works together with the grade control to provide accurate transverse slope checking of the mat.

Digital slope control includes a remote LCD control that allows the ground operator to set the slope percentage of the surface.

6 m (19' 7") Self-leveling ski for grade control rides on the pavement surface and provide a mean average on the surface on which it is operating.

200 mm (8") extension boxes bolt-on vibrating mechanical extensions for 3.60 m (11' 8") (2 elements) and 4.00 m (13') (4 elements) paving width with RB 320 screed.

200 mm (8") extension boxes bolt-on LPG mechanical extensions with tamper blade for 4.00 m (13') (2 elements) paving width with RB 3200 screed.

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Featured machines in photography may include optional equipment.
Materials and specifications are subject to change without notice.

