

## Specification

Drive - Standard Engine:	
Engine Model	JCB Turbocharged 4 cylinder
Engine Power	112kW / 150hp at 2200 rpm
Engine Cooling	Water Cooled
Engine Fuel	Diesel
Drive - Optional Engine	
Engine Model	JCB Turbocharged 4 cylinder
Engine Power	129kW / 173hp at 2200 rpm
Engine Cooling	Water Cooled
Engine Fuel	Diesel
Paving Widths - MDTV25 - 50	
Standard hydraulic paving width closed	2.5 metres
Standard hydraulic paving width open	5.0 metres
Basic width open + mechanical extensions	8.0 metres
Capacities	
Hopper Capacity	12.0 Tonnes
Hydraulic System	220 Ltrs
Fuel Tank	150 Ltrs
Material Throughput	
Production Rate	460 Tonnes per hour
Paving Depth	0 - 300mm
Speeds	
Travel Speed	0 - 12 / 0 - 19 km/hr
Paving Speed	0 - 29 / 0 - 47 m/min
Dimensions	
Length (Tractor unit only - Dimension B)	4.30 metres
Length (With MDTV25-50 - Dimension B + B1)	5.45 metres
Operating Width (Dimension C)	3.27 metres
Operating Height (Dimension A)	2.90 metres
External Of Drive Tyres (Dimension D)	2.47 metres
Axle Centres (Dimension E)	2010mm
Truck Entry Dimensions	
Height Centre	420mm
Hopper Floor	615mm
Shipping Dimensions	
Shipping Height	2.36 metres
Shipping Width	2.50 metres
Weight	
With MDV25-50 - MDTV25-50	14,200 - 16,600Kg

Product improvement is a continuous goal at BGPavers. Designs and specifications are subject to change without notice or obligation

**BGP Group ... Higher Walton ... Preston ... England ... PR5 4DZ**

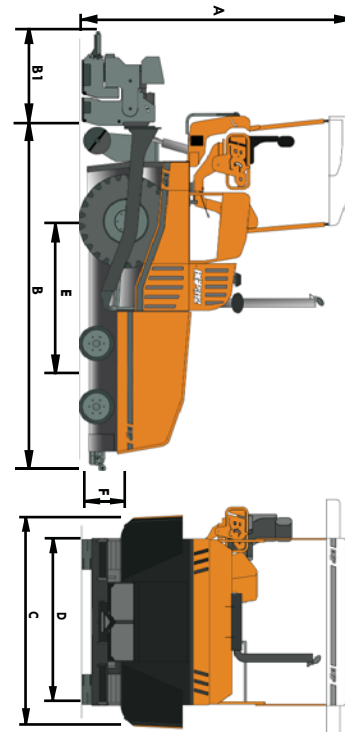
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A	B	B + B1	C	D	E	F	Weight
Minimum Height	Length	Length	Width	Wheel Base	Axle Base	Truck Entry	
Operating 2.90m	Tractor Unit Only 4.30m	With MDTV25-50 5.45m	Operating 3.27m	External Of Drive Tyres 2.47m	Axle Centres 2.01m	Height Centre 420mm	With MDTV25-50 14,200 Kg
Shipping 2.36m			Shipping 2.50m			Hopper Floor 615mm	Screed Plus options 16,600 Kg

ANTICIPATING YOUR TOMORROW

**BGP**  
**312**  
THE PURSUIT OF EXCELLENCE



Power Unit Std: 112kW - 150hp JCB Turbocharged water cooled diesel engine  
Power Unit Option: 129kW - 173hp JCB Turbocharged water cooled diesel engine

Paving Width: 2.5 - 5.0 metres (Maximum 8.0 metres)

Weight: 14,200 - 16,600 Kg (Subject to final build specification)

Productivity: 460 Tonnes per hour



**312**

[www.bgrp-group.co.uk](http://www.bgrp-group.co.uk)

Big Power - Lasting Performance

Modern Water Cooled: JCB Tier 5 Dieselmix engine produces up to 112kW / 150hp. Efficient design and direct fuel injection results in low fuel consumption and reduced exhaust emissions enabling the power unit to comply to Tier 5 Emissions standard.



Operator Visibility and Comfort

High operator ergonomic consideration is a key feature of the **BGP 312**. The swivel operators console provides fatigue free operation and greater panoramic visibility to the operator.

The large operator console swivels out to provide maximum visibility to the steering guide, Auger chamber, side and rearwards towards the screed unit. The single operation console traverses the machines deck via a simple flick switch operation.

These elements combine to ensure an operator workstation which is comfortable to maintain operator efficiency throughout the working day.



Easy Access

Ease of access for the purpose of emergency manual operation to key paving functions (Augers-Conveyors-Hoppers-Screed functions etc) is a feature not overlooked on the **BGP 312**. Large sliding and hinged bonnets provide speedy access when the occasion demands.



Quality Electrical Plant

This is a key area to any Asphalt Paver and the BGP electrical plant and layout is a well proven high quality system which retains simplicity, reliability and combines rugged and practical installation with visual fault finding hardware.



Optional Equipment

Available Options & Accessories

Hydraulic raise and lower Auger height adjustment

Centralised lubrication grease system

Contact and Non Contact Screed Auto Level controls

Screed assist and timed delay screed lock system

Electric screed heating

Front wheel drive system (2WD or 4WD)

Noise reduction kit

Travelling straightedge

Folding GRP canopy

Hinged Hopper Apron Plate

Fume extraction system

Flood Lighting LED Wide Wash

Forward Glass Windscreen

Ultrasonic material feed sensors

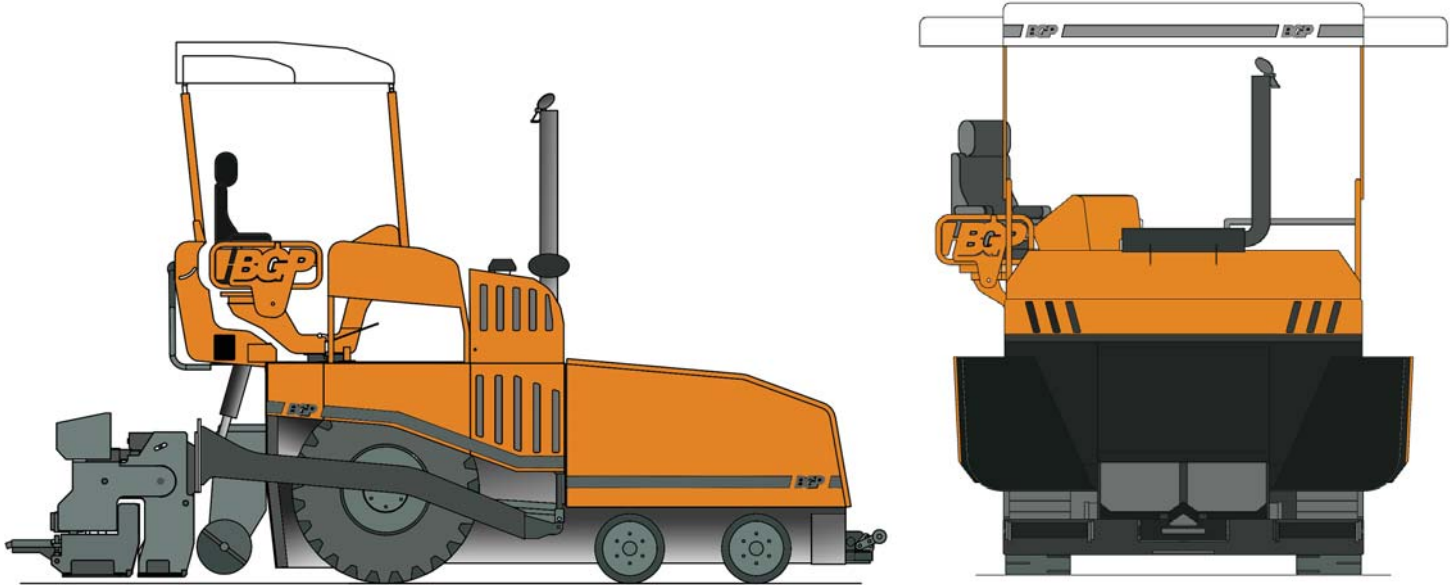
Screed power crown adjustment

Screed extension kits

Hydraulic Vibratory Screed Unit

Switch operated actuator adjustable screed side plates

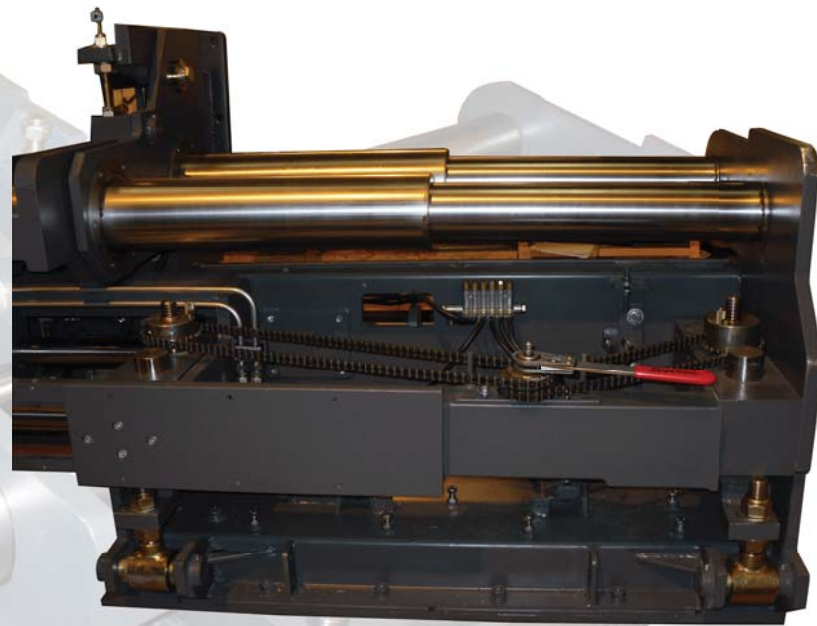
Heated screed side plates (Gas or Electric)





# Design - Simplicity - Performance

Rapid, simple and easy screed extension height adjustment is a real benefit of the MDTV screed unit. No tools are necessary to effect on the move trimming of the screed extensions. Precision performance is easy work from the clutch driven height adjusting jack units.



Assured and precise lubrication comes as standard on the MDTV screed unit. Automatic centralised time scheduled greasing on the tamper and vibrator circuits provides the precise amount required at the correct working intervals.



Twin - Large diameter - Wide centres screed extensions support tubes provide extension stability whilst maintaining uniform screed extension alignment.



Optional switch controlled Hydraulic Raise Lower screed adjusting side plates makes light work of maintaining a precise and neat end joint and enhances operator safety during live traffic situations.



## Impressive Traction

Impressive traction is provided from the heavy planetary style drive system, which supplies ample torque to the oversized wide footprint hydroflated drive tyre. The **BGP 312**'s Planetary drive system features a hydraulic differential lock and a pre start Auto select function together with independent select a brake slew steering to maximise the machines traction capabilities and manoeuvrability.



- ▶ Maximum power transmission thanks to individual hydraulic drives provided for the rear wheels. The flexible tyre design has a large contact surface for high tractive effort.
- ▶ The **BGP 312**'s front steer wheels are mounted on an oscillating pivot axle to ensure consistent ground contact whilst compensating surface irregularities.
- ▶ Spin-turn braking: The **BGP 312** has the ability to rotate 180 ° within its own length. This feature allows the machine to pave much closer to the end of the paving run, reducing the final handwork considerably. The spin turn braking also sees the **BGP312** as a paving unit with exceptional manoeuvring capabilities when working in confined spaces.
- ▶ Additional traction is available to the machine's main drive capability from the optional load sensing hydraulic front wheel drive system. The variable torque system provides the machine operator with instant control of the delivered power. The front wheel drive system also includes hydraulic differential lock functions which includes the pre start Auto select function to optimise traction at the very start of the paving operation.

## Hinged Self Cleaning Hydraulic Apron Plate

Independent switch operated hinged hopper front apron plate and hopper liners prevents material spillage out of the front receiving hopper benefitting overall machine screed level control whilst enhancing operator safety by significantly reducing manual clearing of material residue in the front receiving hopper area. LED safety Flashing lighting further enhance operator safety in the coupling of the delivery truck to the BGP paving unit.

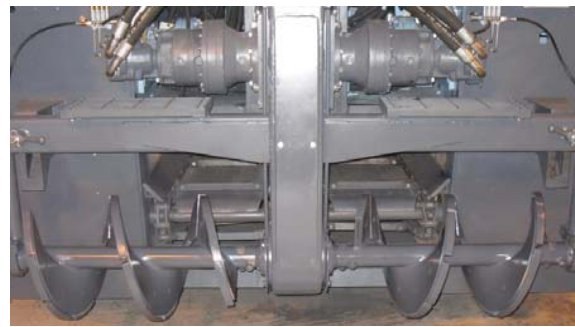




**A** Latest generation console with colour LCD display(with automatic adjustment for sunlight) has clearly laid out switchgear in logical and ergonomic positions which for the operator soon become second nature.



**B** Substantial sized Conveyor and Auger components on the **BGP 312** deliver efficient and consistent material throughput to the screed unit. Variable Auger and Conveyor speeds ensures precise material control, enhancing the screed's stability and level control. Both the Auger and Conveyor systems benefit from a reverse operation function and a simple manual override feature.



**F** Quality - Simplicity - Reliability are paramount and commence from, within our in-house design department and continue to feature through each of the BGP 312's build stages.



Travelling multi sensor levelling system with folding hardware ensures precise and accurate control takes only minutes to install and set up.



The **BGP 312** is a most impressive compact paving unit, which delivers high standards of all round performance-production-versatility and above all "satisfaction" to its users.

The **BGP 312** has gained an enviable reputation for its substantial traction, ease and simplicity of operation, excellent manoeuvrability and a screed unit which hydraulically operates at double its basic closed width (2.5 - 5.0 metres).



**C** Wide receiving hopper with a large holding capacity. High angled folding hopper wings and proportional speed bar conveyors reaching right to the front of the machine ensure smooth material throughput.

**E** Heavy duty fibreglass canopy folds easily for transportation. The canopy is equipped with extending sections to offer operator protection when the operators console is positioned outboard.



**D** Ease of access for the purpose of manual operation of key paving functions. Lockable side panels provide full access when needed.