

ROAD WIDENERS STRASSMAYR BF 290 and BF 400

designed for paving road sides with all kinds of materials



PUSH



PULL

The Strassmayr BF 290 and BF 400 road wideners fully cover the needs of small, medium, and large motorway roadside works such as road widening, hard shoulder work or cable and pipeline trench filling. Machines can be either PUSHed or PULLed, and powered by own diesel engine or from the PTO of carrier.

All different types of soil, gravel, grit and asphalt can be used with these units. The universal quick coupling mount allows to attach the road wideners to a wheel loader, backhoe loader or a tractor.

A specially designed screed allows to lay several material layers, optionally up to 3 meters in width. Additional sweeping brush mounted under the operator seat ensures the cleanliness of the process. All models are available in right and left hand versions.

The Strassmayr BF 290 model due to its smaller overall width, allows to carry out work without stopping the road traffic. The BF 290 can be controlled hydraulically or by electro valves. The working width of the BF 290 is from 30 cm to 2 meters. This model can be ordered both in the classic version with the engine and powered by PTO, which is often chosen due to the purchase price and ease of maintenance of the machine during operation. In addition, one less engine at the construction site is a benefit for the environment.

The Strassmayr BF 400 model is a larger brother of BF290, and more efficient - by approximately 30-40% compared to the BF 290. The working width of the BF 400 is from 30 cm to 3 meters. The higher overall weight, more powerful engine, wider delivery belt and solid wheels indicate that the machine is designed for large-scale jobs, especially on highways. The main material bin is also 70 cm wider, what allows for better clearance between the BF 400 body and tipper, and continuous work even on tight road turns, without the need to temporary disconnect the tipper. We also took care of the comfort of the operators' work by soundproofing of the machine's engine compartment.



Strassmayr BF 400



Strassmayr BF 290

Models available in Strassmayr BF line:

Model	BF 290 PUSH	BF 290 PULL	BF 400 PUSH	BF 400 PULL
Max. working width	up to 2 m	up to 1 m	up to 3 m	up to 1 m
Powered by	Kubota D902 (16,1 kW) or PTO	Kubota D902 (16,1 kW)	Kubota D1105 (18,5 kW)	Kubota D1105 (18,5 kW)
Control system	Hydraulic or electric	Hydraulic or electric	Hydraulic	Hydraulic
Weight	2900 kg	2800 kg	3500 kg	3500 kg
Theoretical capacity	290 tph	290 tph	400 tph	400 tph
Belt height	510 mm	510 mm	480 mm	480 mm
Paving height	+240/-300 mm	+240/-300 mm	+/- 300 mm	+/- 300 mm
Paving slope	+/- 15 deg	+/- 15 deg	+/- 30 deg	+/- 30 deg

Construction of the unit

- o steel construction of the unit, welded, triple painted capacity of the main material bin ca. 2,5 m³ (BF 290) and ca. 3 m³ (BF 400)
- o solid main frame
- o conveyor belt for material transportation
- o rubber covered driving drum with hydraulic motor
- o special steel tensioning drum
- o special tensioning system with manual adjustment
- o absorber with hydraulic distance adjustment allowing soft fit to all types of trucks delivering material
- o front blade with lifting capacity ensures that no any material falls out of the stone bin during operation material which stayed on the blade after finishing operation will be moved to the conveyor belt

Mounting plate

- o mounting plate will be delivered with the unit will be prepared on behalf of drawing and dimensions received from customer allows immediate and easy assembly on the forks of the wheel loader

Main engine

Model BF 290

KUBOTA D902
EPA Tier 4 final and EU Stage V
In-line 3-cylinder liquid cooled Diesel
engine power 16 kW
engine radiator with fan
main engine located in the middle of the unit to avoid damages

hydraulic pump driving all the functions
hydraulic oil tank with filter and temperature/oil level indicator

Model BF 400

Kubota D1105
EPA Tier 4 final and EU Stage V
In-line 3-cylinder liquid cooled Diesel
engine power 18,5 kW
engine radiator with fan
main engine located in the middle of the unit to avoid damages

hydraulic pump driving all the functions
hydraulic oil tank with filter and temperature/oil level indicator

Carrier requirements

- o wheel loader
- o backhoe loader
- o tractor
any brand with engine output of minimum 70 kW and weight of minimum 8 ton (min. 80 kW for BF 400, and minimum vehicle weight of 12T for 3000 mm working width)
carrier is dedicated only to push the road widener

Application

- gravel, sand, soil (with standard conveyor belt)
- all asphalt mixes (with dedicated conveyor belt)

Slope indicator

- mechanical system presenting adjusted slope

Operator panel

- assembled on the right side of the unit, directly over the place of laying of material allows running of all main functions of the unit equipped with operator seat foldable for transportation

Wheels

- four double wheels made of special rubber with 360 deg. rotation possibility easy and trouble-free exchange possibility

Hydraulic functions of the screed

- hydraulic infinitely adjustment of working width allowing working width up to 2 000 mm (PUSH version) with infinite adjustment in the range of 600 mm
- hydraulic infinitely adjustment of slope allowing slope adjustment
- hydraulic infinitely adjustment of screed height



Additional equipment

Cleaning brush

- with hydraulic drive
- hydraulic adjustment of working height

Additional special conveyor belt

- allowing laying of asphalt mixture with increased temperature resistance up to 200°C

Widening elements up to 3,0 m (only available for BF 400 PUSH)

- allowing working width up to 3,0 m still allowing hydraulic infinitely adjustment in the range of 600 mm

Canopy

- canopy over the operator place steel scaffolding for the canopy

Front towing system (for BF PUSH version)

- allowing to transform the PUSH version into PULL version
- system allowing direct coupling of the road widener to the truck
- road widener is towed by the truck delivering material
- no need of use of wheel loader or backhoe loader for pushing the road widener and truck by operation
- equipment:
 - 2 hydraulic cylinders replacing two front wheels
 - Special front towing unit replacing the front bar

Front towing system allows operation of road widener without a need of use of a dedicated wheel loader, or backhoe loader. The role of pushing wheel loader takes a towing truck, that anyway is present at the jobsite, delivering material to be laid.

Manual regulation of the hook's height, allows rough (initial) hook's height adjustment ensuring good connection to the truck and correct position of road widener.

Hydraulic cylinders, that replace two front wheels, allow smooth and stepless adjustment of the hook's height, allowing trouble free coupling of the road widener to the truck, and decoupling, when change of the truck required.

Electric operation of all functions of the unit (only for BF 290)

- Operator panel with electric switches allowing operation of all functions
- System based on hydraulic-electro valves placed on the unit
- System allowing moving the operator panel to the cabin of loader equipped with special electrical wire extension