

## ROAD WIDENER STRASSMAYR BF 290

designed for paving road sides with all kinds of materials



PUSH



PULL

The STRASSMAYR BF 290 has been designed to solve all aspects of roadside work, 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 PTO of carrier. It can be controlled hydraulically or by electro valves.

All different types of soil, gravel, grit and asphalt can be used with this unit. The universal quick coupling mount allows to attach the BF290 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 (PUSH version). Additional sweeping brush mounted under the operator seat ensures the cleanliness of the process.

Models available in BF 290 line:

Model	BF 290 PUSH	BF 290 PULL
Max. working width	up to 3 m	up to 1.5 m
Powered by	Kohler diesel or PTO	Kohler diesel
Control system	Hydraulic or electric	Hydraulic or electric

### Construction of the unit

- steel construction of the unit, welded, triple painted
- capacity of the main material bin ca. 2,5 m<sup>3</sup>
- solid main frame
- conveyor belt for material transportation
- rubber covered driving drum with hydraulic motor
- special steel tensioning drum
- special tensioning system with manual adjustment
- absorber with hydraulic distance adjustment allowing soft fit to all types of trucks delivering material
- 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

- 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

### Carrier requirements

- wheel loader
- backhoe loader
- tractor
- any brand with engine output of minimum 70 kW and weight of minimum 8 ton
- carrier is dedicated only to push the road widener

### Application

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

## Main engine

- KOHLER KDW1003  
fulfilling exhaust emission regulation:  
EPA Tier 4 final and EU Stage V  
In-line 3-cylinder liquid cooled Diesel  
engine power 18 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

## 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

## Technical specification:

weight of unit empty	2 900 kg
working width up to	2 000 mm
infinitely adjustable in the range of	600 mm
conveyor belt height	510 mm
material paving height	+ 240 mm
	330 mm
paving slope	+/- 15 deg

## 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

## 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 (not available by PULL version)

- 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 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

- 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