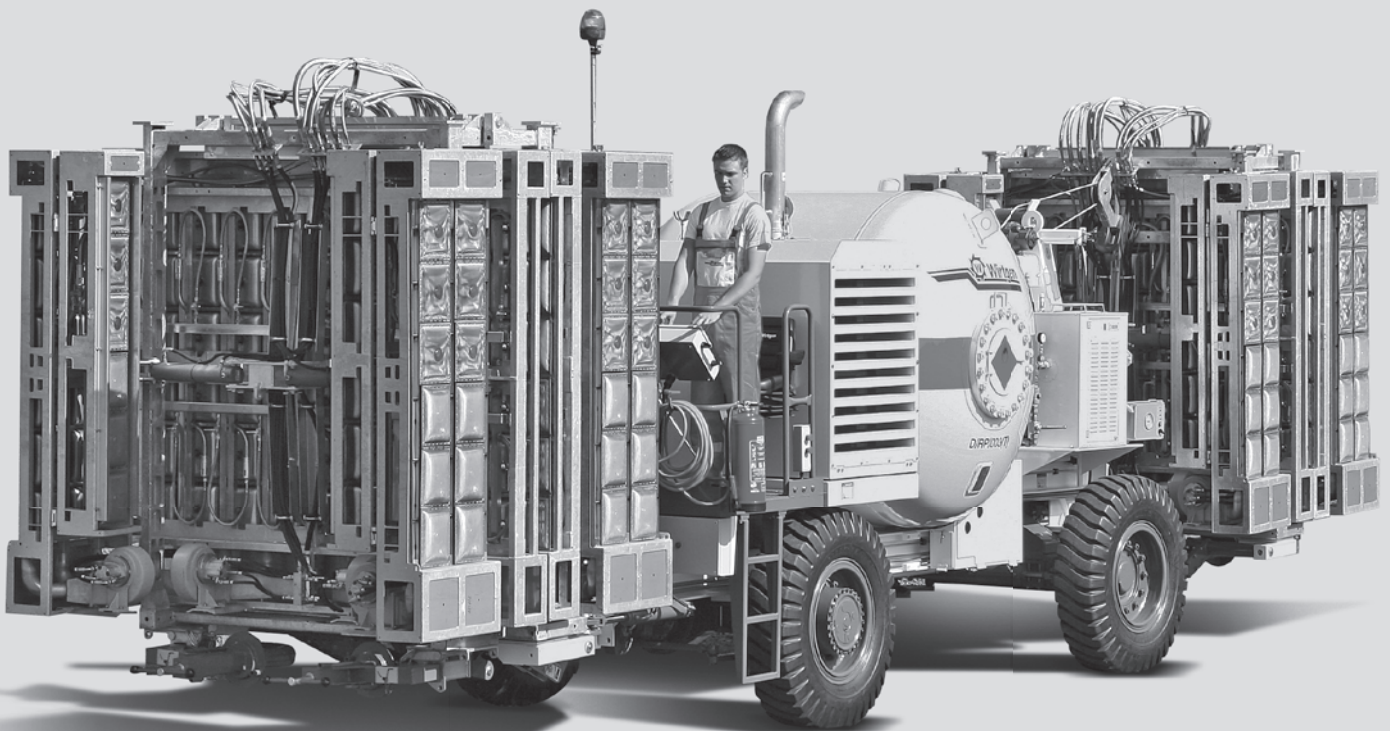




Technical specification

Panel heating machine HM 4500

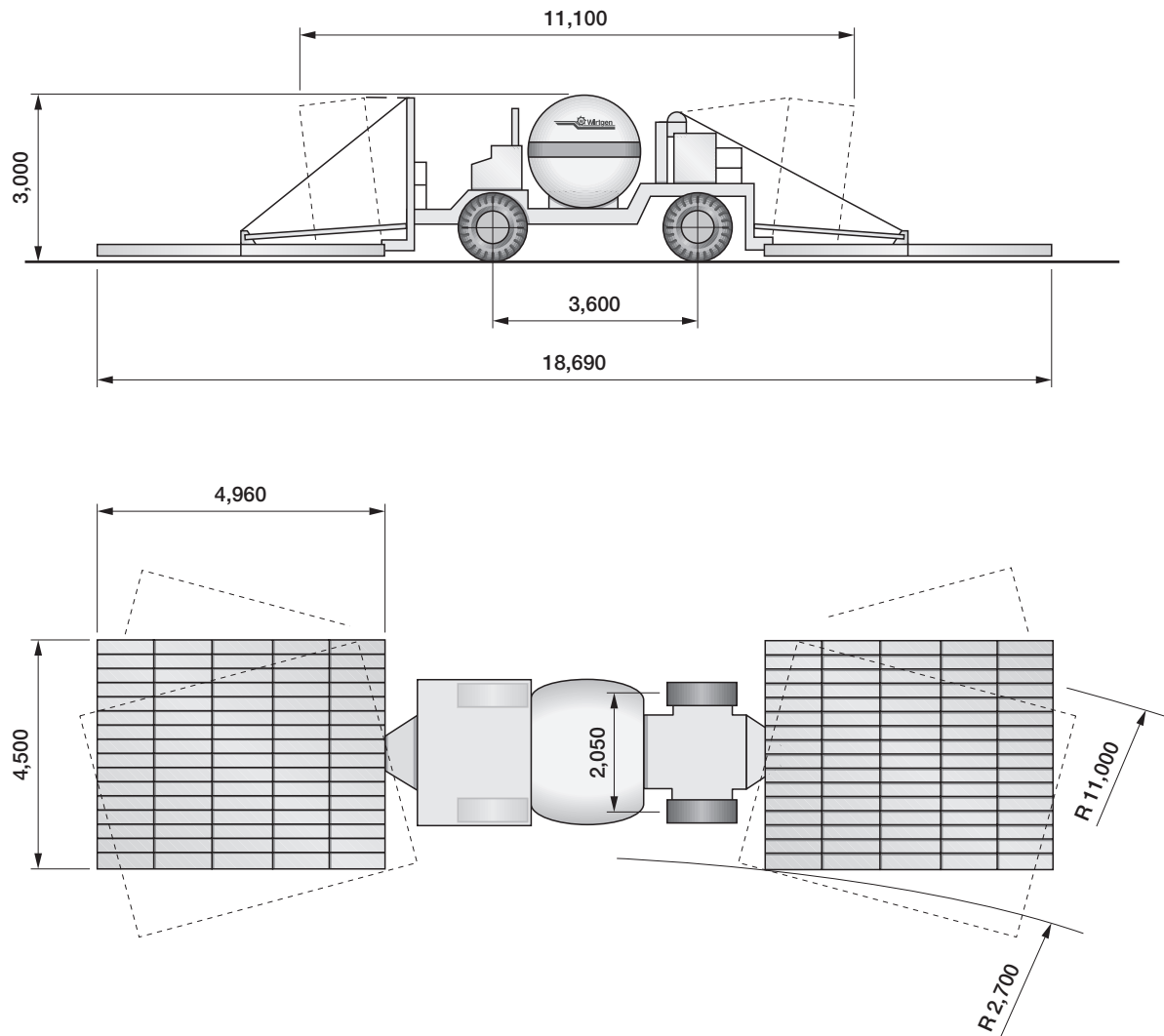


	Panel heating machine HM 4500
Heating	
Max. heating width	4,500 mm
Max. heating performance	2,260 kW
Heater element	Infra-red heaters
Front panel length	4,960 mm
Rear panel length	4,960 mm
Engine	
Manufacturer	Deutz
Type	TCD 2012 L04
Cooling	Water
Number of cylinders	4
Output	75 kW/100 HP/102 PS
Engine speed	2,300 min ⁻¹
Displacement	4,040 cm ³
Fuel consumption, ¹ / ₁ load	20,9 l/h
Fuel consumption, ² / ₃ load	13,9 l/h
Emission standards	EC Stage 3a / US EPA Tier 3
Speed/Gradeability	
Working gear	0–23 m/min
Travel gear	0–6 km/h
Theor. gradeability – Working gear	68%
Theor. gradeability – Travel gear	12%
Weights/Loads *1	
Front axle load	6,900 daN (kg)
Rear axle load	9,800 daN (kg)
Own weight	16,700 daN (kg)
Operating weight CE *2	19,700 daN (kg)
Operating weight, max.	22,600 daN (kg)
Tyres	
Tyre size, front	Ø 1,200 mm
Tyre size, rear	Ø 1,200 mm
Tank capacities	
Fuel tank	280 l
Hydraulic fluid tank	300 l
Gas tank	6,000 l
Electrical system	24 V
Shipping dimensions	
Dimensions of machine (L x W x H)	11,100 x 2,500 x 3,000 mm

*1 = All weights refer to basic machine without any additional equipment.

*2 = Weight of machine with half-full water tank, half-full fuel tank, driver (75 kg) and tools.

Dimensions in mm



Basic design

Self-propelled machine for thermal treatment of bituminous pavements. The HM 4500 is employed to pre-heat and soften the existing bituminous surface prior to further processing stages.

Base frame

Rigid, welded frame of reinforced steel profiles with fixtures for the operational units and superstructure. All components are easily accessible for service and repair.

Axle suspension

The front axle is free-floating, and the rear wheels are rigidly connected to the base frame.

Steering

The machine is equipped with a finger-light hydraulic 4-wheel steering system. Both axles can be individually steered (crab steer).

Travel drive

The rear axle is driven via a hydraulic motor fed by a

variable displacement pump which is flanged to the main engine. The travel and working speed is infinitely variable from zero to maximum speed. Switching from travel to working speed is effected hydraulically.

Brake system

Braking is achieved by drag from the hydrostatic transmission. The machine is in addition fitted with an automatic parking brake.

Heating the pavement

The existing pavement is softened by infra-red heaters. The energy source used is propane gas, which is vaporised and burnt in gaseous form. In addition, hydraulically driven ventilators are installed on top of the heater elements. This additional air supply increases the efficiency of the combustion and thus leads to a higher heating performance. At the same time the development of smoke is considerably reduced.

Gas tank: Liquid gas tank with level indicator.

Vaporiser: Two gas operated vaporisers with thermostatic control.

Heater elements: Infra-red heaters with ventilators.

Heating capacity: Four control valves for distributing the heat output in the individual heaters (setting the working pressure).

The front and rear heater panels can be adjusted in height and slewed independently to either side. For transporting, the heater panels can be folded together like a concertina and then raised by means of two hydraulically driven winches.

Operator's stand

Walk-through operator's stand at the front of the machine. All controls and instruments are within easy reach, and excellent visibility is ensured.

Electrical system

24 Volt system with three-phase alternator and 24 V battery, starter, electrical socket and horn as well as working lights.

Safety devices for transportation

The machine is equipped with sturdy loading eyes for crane loading and securing to a low loader.

Equipment	Panel Heating Machine HM 4500
Working lights	○
Warning lights	○
Comprehensive tool kit	○
Loading and lashing eyes	○
4-wheel steering	○
Special painting	●

○ Standard ● Option



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