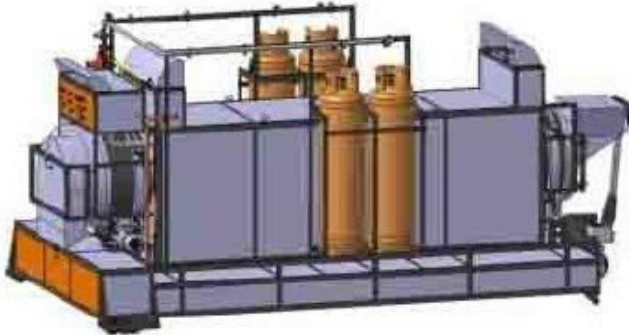


Road repairing equipment ARES 1



Operation principle for the road repairing equipment ARES 1:

The radiant panel consists of 9 MFB 10 burners is designed to heat by radiation the defect area. The fuel used (propane) is derived from a group of four 33 kg tanks. The flue gases resulted from the burning, bathe the rotating drum and they are discharged into the upper part of the oven. The rotating drum is heated and has the role of preheating the filler material which is to be used. In the oven, above the drum, there are two MB 8 burners which are used to heat up the drum when the radiant panel is not in use.

The drum is driven by a gear motor through a friction conveyors which has the function of helical transporter, cold asphalt mixture is inserted into one end and the other end hot asphalt is evacuated. The amount of asphalt mixture heated and the holding time in the drum is set by controlling the speed of the drum. The equipment is easy to handle and is seated in position using an adjusted type of pallet truck. It allows the height adjustment of the radiant panel. Transporting equipment is a trailer with folding platform.

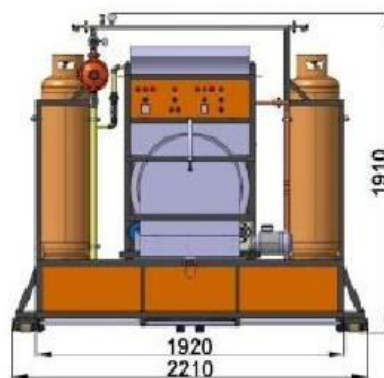
Application range for the road repair equipment ARES 1

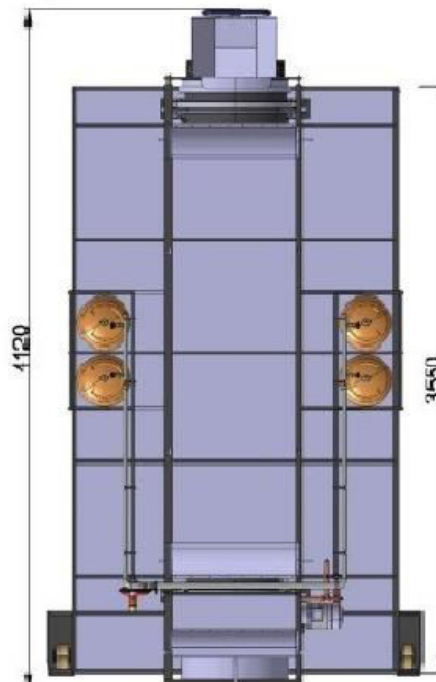
Having a radiant panel with a large area and a continuous microwave heating drum of the filler material, ARES 1 is destined for large scale remediation work, especially holes, tile, creases and discharge.

Advantages of using the road repair equipment ARES 1

- Allows cold storage and transportation of fresh asphalt, briquette/graded without needing asphalt supplies in cold season when they generally do not work;
- Possibility of hot asphalt recycling stripped and chopped or milled in the drum lower costs and positive effects on the environment;
- Heating mix asphalt additives only in a quantity necessary for a defect requires a much lower gas consumption compared to the need of maintaining the temperature in thermal containers which have the capacity of approximately 2 to 4 tons of fresh asphalt stocked in stations needed for a day's work.
- Increased energy efficiency and therefore lower fuel costs through:
 - Combustion gases collected from the radiant panel heating and maintaining the temperature of filler material from thermal container/drum
 - Heating judicious perimeter of the area just by turning individual defect only the burners required
 - Thermostats
 - Thermal insulation
- Safety in operation by controlling combustion (purge, ignition electronic ionization sensor for lack of flame-ventilation)
- Possibility to set the intensity of radiation depending on the outside temperature, depth and degree of aging heating asphalt bitumen
- Hygenic combustion (reduced emissions of pollutants)

Main technical characteristics





Radiant panel dimensions	3160 x 1880 mm
Radiation surface	5,9 m ²
LPG storage capacity	4 x 33 = 132 kg; 262 liters
Preheating capacity of milled asphalt mixture	1200 – 1400 kg/h
Installed power radiating panel	450 kw
Estimated fuel consumption for radiant panel	32.4 kg/h
Installed power microwave heating drum	100 kw
Estimated fuel consumption for heating furnace drum	7.2 kg/h