

## Mobile Container Complex based on the K922-1 rail welding machine



The complex is designed for flash-butt welding in field conditions with pulsed flashing of rails with cross-section of 6500-10000 mm<sup>2</sup> with burr removal immediately after welding. The complex is produced in the form of a 20ft sea container, designed for mounting both on the truck base and on a railway platform moving by rail to the welding work areas. If necessary, it is possible to install and operate in stationary conditions for the production of rail strings.



The container contains a welding machine K 922-1, a crane-manipulator, a diesel generator unit, a fire extinguishing system, a pump station, control cabinets for the welding machine and the complex, and a water cooling post.

To operate the crane-manipulator, the container is equipped with rear and side opening boards, doors and hatches necessary for operation of the complex and installation of equipment. The crane-manipulator ensures that the welding machine is removed from the container and positioned at the joint of the rails to be welded. After finishing welding with a crane-manipulator, the welding machine will be returned into the container.



## Specifications

	<b>Mobile Container Complex based on the K922-1 rail welding machine</b>
Rated supply voltage, V	400
Frequency of power supply current, Hz	50
Electricity source	autonomous generator
Maximum secondary current, kA	67
Rated continuous secondary current, kA	24
Maximum short circuit power, kVA	500
Short circuit resistance, $\mu\text{Ohm}$	110
Power, kVA, at duty cycle = 50%	211
Nominal draft gain, kN, at the highest operating pressure in the hydraulic system	1200
Maximum operating pressure in the hydraulic system, MPa	21
Drive of clamping and settling mechanisms	hydraulic
Deposition rate, mm/s, not less	20
Highest productivity when welding rails with a cross-section of 8200 mm <sup>2</sup> , joint/hour	13
Machine time for welding rails with a cross section of 8200 mm.kv, s	180
Diesel generator power, kVA	400
Lift capacity, kg	4000
Angle of rotation of the lift in the horizontal plane, within, degrees.	$\pm 45$ degrees Celsius
Change in the extension of the retractable section, within, mm	0-650
Cooling water flow at a pressure of 0.15 MPa, l/min:	
- welding machines	25
- pumping station	40
Overall dimensions of the complex, mm:	
- length	6058
- width	2440
- height	2591
Weight of the complex, kg, no more	20000