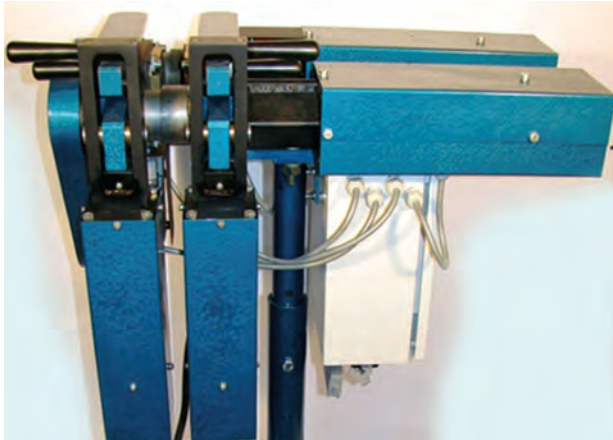


MD1 MOBILE MACHINE FOR PRESSURE PIPE WELDING



MD1 mobile machine



Weld joints , $\varnothing 25 \times 2$ mm, $\varnothing 42 \times 4$ mm

Areas of Application

The machine can be used for gasification of villages, construction of pipelines, and soil stabilization systems; for welding of pipes with fittings, plugs, sleeves, shafts, etc.; for welding of air ducts of railway wagons



Types of weld joints

Specification

Maximum pipe diameter, mm	76
Maximum welding force, kN	40
Supply voltage, V	220
Power consumption, kW	50
Weight, kg	90
Overall dimensions, mm	$800 \times 600 \times 400$

Advantages

Steel pipes are welded in air environment. The mechanical properties of weld joints match those of the base metal welded. No need for qualified welders. Welding consumables and protective gas are not used. No metal stuck to the pipe inner surface. Precise control of upsetting allowance. Control and record of basic parameters while welding. Time of welding $\varnothing 42 \times 4$ mm pipe is 14 s

Stage of Development. Suggestions for Commercialization

IRL7, TRL8
Manufacture, supply, warranty service, and staff training, upon request

IPR Protection

IPR3

Contact Information

Volodymyr S. Kachinskiy, E.O. Paton Electric Welding Institute of the NAS of Ukraine;
+38 099 370 33 69, e-mail: kachinskiy@paton.kiev.ua