

EQUIPMENT FOR ULTRASONIC WELDING OF PLASTICS



Equipment for ultrasonic point welding of plastics



USG with a flat concentrator for welding longitudinal joints

Areas of Application

The equipment is to be used in technological processes for welding of plastics both in manual and automatic modes, in various industries

Specification

Various concentrators of ultrasonic oscillations are used for the production needs.

| | |
|--|-----------|
| USG electric voltage, V | 170 – 240 |
| Output power, W | 2000 |
| USG weight, kg | 4.2 |
| Weight of instruments, kg | 1.2 – 2.5 |
| Frequency range, kHz | 20 – 40 |
| Vibration amplitude of instrument tip, μm | 15 – 65 |

Advantages

The equipment can be adjustable for an output power from 0.5 to 2.0 kW. It enables welding a broad class of dissimilar polymers. In Ukraine, it is the only ultrasonic generator (USG) having digitally adjustable welding parameters, which costs considerably lower than the foreign counterparts

Stage of Development. Suggestions for Commercialization

IRL5, TRL6
Manufacture, delivery, warranty service, and staff training, upon request

IPR Protection

IPR3

Contact Information

Vitalii P. Bevz, G.V. Kurdyumov Institute for Metal Physics of the NAS of Ukraine;
+38 044 424 12 05, e-mail: BevzV@ukr.net