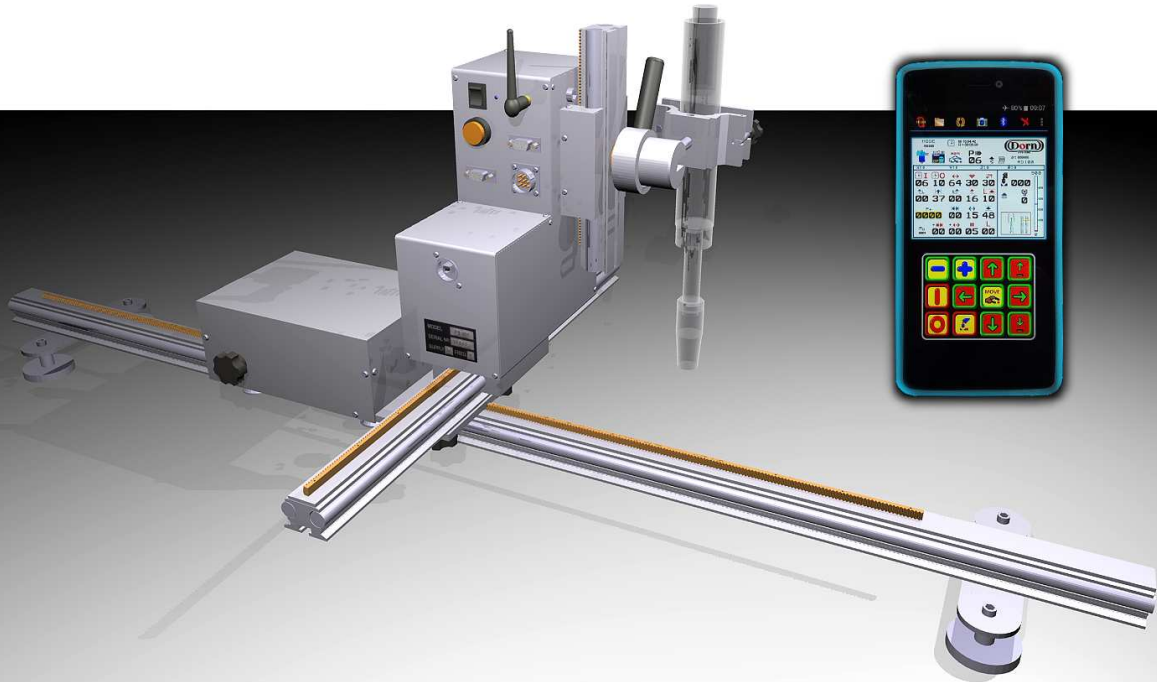


Dorn-Robot-500 / Dorn-Robot-200

First wireless radio-controlled, universal automatic welding robot with up to 4 axes

-use your preferred android mobile phone or tablet as remote pendant

-stay cool and safety and protect your health



- special welding patterns for any shape of seam with X, Z or X&Z oscillation
- 3D linear movement for corner welds or hard facing at any form of surface
- special welding sequences for working with self shielded wires (FCAW)
- multi-layers, multi-areas and 4-axes joint welding with rotary support
- prepared for Auto-Teach-In and touch-less laser-line measurement



RD500-B

Dorn-Robot-500-B

With optional drive unit **RD500-B**.
Internal Battery for 10 hours independent wireless work, battery-charger and torch ON/OFF contacts.

Technical Data

Power Supply : prim. 100-240 VAC, sec. 2*12 VDC/ 72W, **Or** : prim. 42 VAC, sec. 2*12 VDC/ 72W
Option : RD500-B Drive with chargeable Battery, 20Ah for approximately 10 hours of independent work.
Battery Charger : +-12 VDC / 1A
Motors XYZ : DC-Motors, 12V/36W, 0 - 1800 mm/min, optional rotary support **R**: 60 RPM
Motor Controls XYZR : Linear regulated, with computer controlled fuse and speed adjustment.
Mechanical Parts : Ball- and Linear-Bearings, 12 mm hardened steel rails, worm gears and helical racks.
Turn able torch holder, mounting knob for drive unit.
Mounting directly at work piece with clamps, magnets or screw able with screws M6.
Computer : 32-Bit ARM micro controller, multiple interfaces, USB, Serial, I²C, CAN ...
100% Quality-Management-System, future Operating System Update by USB-Connection.
Remote Pendant : Octa-Core phone, 4.7 inch HD bright display, spatter protection foil, rubber cover.
Connections : Contact for switching the power source, wireless and USB interface to PC (optional)
Amplitude : 0 - 120 mm; **Oscillation Frequency** at 0.1mm amplitude : 25 Hz max.
Movement : Weaver **X**: 400 mm, Up/Down **Z**: 200 mm, Drive **Y**: 1300 mm, Rotary **R**: endless
Encoder Resolution : 0.106 mm, detected at gear output
Dimension Unit (without rails) : 350 mm * 180 mm * 230 mm
Weight Welding Unit : approximately 14 Kg

