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# RIYANG V Series Manual Hydraulic Machine



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The V series manual hydraulic butt welding machines are applied to joint PE, PP, PPR and PVDF pipes and moulded fittings. Selection of components with a long service life ensures a low maintenance and repair, friendly and reliable operation. It makes more possibilities through upgrading the machine to data logged enabled with installation of an RIYANG data logger.

- The control panel centralized in the hydraulic unit enables operators to set welding parameter and execute welding procedure conveniently. Also available with digital temperature control for heating plate and a refined large readable pressure gauge.
- All connections sockets are located at the back of hydraulic unit, including sockets for trimmer tool and heating plate. Additional USB charging port is ready for charging your mobile phone when power off.
- All RIYANG manual hydraulic butt welding machine can easily be upgraded with RIYANG data logger for welding parameter setting, viewing, monitoring and recording. So it will comply with main gas welding requirements for data recording and report printing. No need to use full automatic machine.

- With steel side wall and high strength connection bars, the machine chassis could be prevented from being tilt or twist when dragging very long length pipes with most extreme pipe parameters.
- Specifically anti-stick Teflon coated heating plate enables the machine to work in precise way. And long life service is promised when operating in appropriate way. Specifically "C" designed heater handler, PTFE mat adopted with more helps in heat insulation, both characteristics prevent operators from being injured by heat.
- The trimmer tool is driven by a high-quality power motor. Rotating by a transmission chain helps the trimmer work stably.
- Friendly designed support is provided to store the heating plate and trimmer tool. No worries for the heating plate be scratched by sharp objects. And the design "sides-lift" enables operators to lift the support up and down expediently, without possible serious bump to the operators.
- The large brass knob can be easily handled by ratchet wrench, and resistance to rusty. Ratchet wrench is applied for O.D. up to 355mm.

**All machine components are covered by RIYANG warranty**



Hydraulic unit with detachable frame



Unique Teflon coated heating plate



Centralized temperature controller with On/Off button



RIYANG aluminum reducing inserts



All connection sockets at the back of unit  
USB charging port ready for phone and pad



Aluminum stub end device

| Technical Parameters           | V160                          | V200                                | V250   | V315  | V355   |
|--------------------------------|-------------------------------|-------------------------------------|--|---|--|
| Welding Range O.D. (mm)        | 50 - 160                      | 63 - 200                            | (75)90 - 250                                 | 90 - 315  | 90 - 355   |
| Reducer Inserts                | 50, 63, 75, 90, 110, 125, 140 | 63, 75, 90, 110, 125, 140, 160, 180 | (75)*, 90, 110, 125, 140, 160, 180, 200, 225 | 90, 110, 125, 140, 160, 180, 200, 225, 250, 280 | 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315 |
| Power Supply                   | 220V<br>50Hz                  | 220V<br>50Hz                        | 220V<br>50Hz                                 | 220V<br>50Hz                                    | 220V<br>50Hz   |
| Rated Power (kW)               | 2.5                           | 3.0                                 | 4.25   | 5.25  | 6.25   |
| Piston Area (cm <sup>2</sup> ) | 6.27                          | 6.27                                | 10.99  | 20.02   | 20.02  |
| Overall N.W./G.W. (kg)         | 96<br>124                     | 110<br>140                          | 137<br>163                                   | 189<br>234                                      | 208<br>256   |
| Standard Configuration         |                               |                                     |  |   |  |
| Basic Machine Chassis          | •                             | •                                   | •  | •   | •  |
| Trimmer                        | •                             | •                                   | •  | •   | •  |
| PTFE-Coated Heating Plate      | •                             | •                                   | •  | •   | •  |
| Temperature Controller         | •                             | •                                   | •  | •   | •  |
| Support Bracket                | •                             | •                                   | •  | •   | •  |
| Aluminum Reducers              | •                             | •                                   | •  | •   | •  |
| USB Charging Port              | •                             | •                                   | •  | •   | •  |
| Detach Device                  | —                             | —                                   | —  | •   | •  |
| Transport Plywood Box          | •                             | •                                   | •  | •   | •  |
| Optional Configuration         |                               |                                     |  |   |  |
| Stub End Device                | ○                             | ○                                   | ○  | ○   | ○  |
| Data Logger                    | ○                             | ○                                   | ○  | ○   | ○  |
| ISO Reducer Inserts            | ○                             | ○                                   | ○  | ○   | ○  |
| Single Inserts                 | ○                             | ○                                   | ○  | ○   | ○  |
| Support Roller                 | ○                             | ○                                   | ○  | ○   | ○  |

\* Available as option    — Not available    • Standard    ○ Optional

## RIYANG Manual Hydraulic Characteristics

|                        |   |
|------------------------|---|
| Welding control system | Welding temperature monitored by temperature controller   |
| Hydraulic unit         | <ul style="list-style-type: none"> <li>• Only one external power supply needed, all connections installed at the back of the unit.</li> <li>• Temperature controller at hydraulic unit, adjustable by easy operation.</li> <li>• Hydraulic unit encased by detachable frame, easier maintenance and repair.</li> <li>• Max. Pressure, up to O.D. 355mm, 80bar; O.D. 450mm to 630mm, 120bar; O.D. 800-1200mm, 160bar.</li> <li>• Accurate and maintenance-free gauge showing the welding pressure.</li> <li>• USB charging port ready for your mobile phone or Pad.</li> <li>• Quick and easy upgrade of hydraulic unit with RIYANG data logger for welding report.</li> </ul> |
| Approval certification | CE, ISO9001:2008  |
| Warranty period        | 2 years   |