

## MM-TECH V Series Manual Hydraulic Machine



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Hebei MingMai Technology Co.,LTD

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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 MM-TECH 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 MM-TECH manual hydraulic butt welding machine can easily be upgraded with MM-TECH 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.

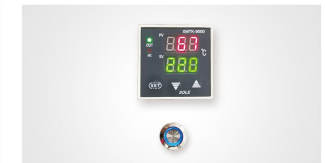
All machine components are covered by MM-TECH warranty



Hydraulic unit with detachable frame



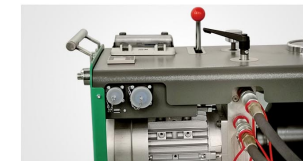
Unique Teflon coated heating plate



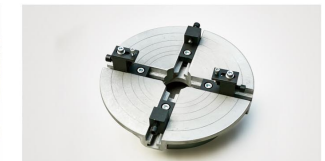
Centralized temperature controller with On/Off button



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	SWT-V160H	SWT-V200H	SWT-V250H	SWT-V315H	SWT-V355H
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 50Hz	220V 50Hz	220V 50Hz	220V 50Hz	220V 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)	96 124	110 140	137 163	189 234	208 256
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

### MM-TECH 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 MM-TECH data logger for welding report.</li> </ul>
Approval certification	CE, ISO9001:2008
Warranty period	2 years



## MM-TECH V Series Manual Hydraulic Machine



Technical Parameters	SWT-V450H	SWT-V500H	SWT-V630H
Welding Range O.D. (mm)	200 - 450	(200, 225, 250)280 - 500	315 - 630
Reducer Inserts	200, 225, 250, 280, 315, 355, 400	(200, 225, 250)*, 280, 315, 355, 400, 450	315, 355, 400, 450, 500, 560
Power Supply	380V 50Hz, 3P	380V 50Hz, 3P	380V 50Hz, 3P
Rated Power (kW)	8.38	10.3	12.3
Piston Area (cm <sup>2</sup> )	22.37	23.06	23.06
Overall N.W./G.W. (kg)	405 486	430 520	618 729
Standard Configuration			
Basic Machine Chassis	•	•	•
Trimmer	•	•	•
PTFE-Coated Heating Plate	•	•	•
Temperature Controller	•	•	•
Support Bracket	•	•	•
Aluminum Reducers	•	•	•
Electrical Cabinet	•	•	•
USB Charging Port	•	•	•
Detach Device	•	•	•
Transport Plywood Box	•	•	•
Optional Configuration			
Electrical Crane	—	—	○
Stub End Device	○	○	○
Data Logger	○	○	○
ISO Reducer Inserts	○	○	○
Support Roller	○	○	○

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- 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.
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- The trimmer tool is driven by a high-quality power motor. Rotating by a transmission chain helps the trimmer work stably.
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- Friendly designed support is provided to store the heating plate and trimmer tool. No worries for the heating plate be scratched by sharp objects.

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Hydraulic unit with detachable frame



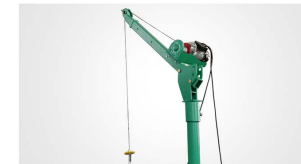
Unique Teflon coated heating plate in support bracket



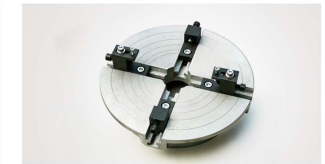
All connection sockets at the back of electrical cabinet



Aluminum reducing inserts



Electrical crane



Aluminum stub end device

### MM-TECH 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 to connect with electrical cabinet.</li> <li>• Temperature controller at electrical cabinet, 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>• Quick and easy upgrade of hydraulic unit with RIYANG data logger for welding report.</li> </ul>
Approval certification	CE, ISO9001:2008
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Hydraulic unit with detachable frame



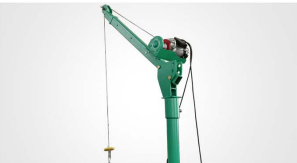
Unique Teflon coated heating plate



All connection sockets at the back of electrical cabinet



Aluminum reducing inserts



Electrical crane



Aluminum stub end device

Technical Parameters	SWT-V800H	SWT-V1000H	SWT-V1200H
Welding Range O.D. (mm)	(400, 450)500 - 800	630 - 1000	630 - 1200
Reducer Inserts	(400, 450))* 500, 560, 630, 710	630, 710, 800, 900	630, 710, 800, 900, 1000
Power Supply	380V 50Hz, 3P	380V 50Hz, 3P	380V 50Hz, 3P
Rated Power (kW)	18.2	24.0	29.5
Piston Area (cm²)	44.0	38.80	50.70
Overall N.W./G.W. (kg)	1300 1420	2400 2600	2520 2780
Standard configuration			
Basic Machine Chassis	•	•	•
Trimmer	•	•	•
PTFE-Coated Heating Plate	•	•	•
Temperature Controller	•	•	•
Support Bracket	•	•	•
Aluminum Reducers	•	•	•
Electrical Cabinet	•	•	•
USB Charging Port	•	•	•
Detach Device	•	•	•
Transport Plywood Box	•	•	•
Optional configuration			
Electrical Crane	○	○	○
Stub End Device	○	○	○
Data Logger	○	○	○
Support Roller	○	○	○

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