UWI-500TP WELDING INVERTER

Product group: 191  Product number: 500500

UWI-500TP is a powerful welding inverter for all arc welding & gouging processes board. Able to perform Stick/TIG/MIG/MAG welding with the right accessories. Welding machine is supply “without” any accessories.

Product information

This product supersedes product no: 670398

Features

- The UWI-500TP is designed for welding with all types and sizes of welding wires, coated electrodes, carbon electrodes and TIG rods, with current range: 5 -- 500A.
- Line Voltage compensation keeps output of the power source constant regardless of fluctuation in input power from 10% below lowest to above highest rated input voltage.
- Total Protection function with indicator light prevents machine damage if one phase in the primary power supply falls out or if over-voltage is supplied to the machine.
- Thermal overload protection with indicator lights helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.
- Safe in use. The Voltage Reduction Device function reduces touchable open circuit voltage to only 9V, providing optimal safety for the operator.
- The remote amperage control can be used for all processes, and also for two machines in parallel for up to 1000 Amperes for Air Carbon Arc gouging.
- Separate characteristics are available for welding with standard electrodes, for cellulosic electrodes, for TIG, for Air Carbon Arc gouging and for Wire welding with or without shielding gas. This ensures optimal properties for all processes.
- Adjustable Hot Start for MMA welding provides optimal arc striking for all electrode types and prevents electrode sticking.
- Adjustable Arc Force for MMA welding allows the arc characteristics to be changed for specific applications and electrodes.
- 2-step TIG-torch control with Lift-Arc provides an easy and soft TIG arc start, and remote control from 5 amp to maximum ensures total arc control both during welding and for the down-slope finish of the weld.
- Adjustable gas post-flow prevents faults in the end phase of the weld.

Benefits

UWI-500TP are able to perform normal stick electrodes, cellulosic stick electrodes, TIG (with Lift Arc), wire welding and air carbon arc gouging.

5-500A current range covers the use of any size of welding electrodes and parallel connection of two machines provide 1000A for the most power demanding Air Carbon Arc gouging tasks.
### Specification

#### General

- **Invent Hazard Material (IMO/EU) classification**: D-1

#### Dimensions/Weight

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>510</td>
</tr>
<tr>
<td>Length</td>
<td>670</td>
</tr>
<tr>
<td>Weight</td>
<td>47</td>
</tr>
<tr>
<td>Width</td>
<td>290</td>
</tr>
</tbody>
</table>

#### Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duty cycle [%]</td>
<td>50 at max current</td>
</tr>
<tr>
<td>Electrical phase</td>
<td>3</td>
</tr>
<tr>
<td>Frequency [Hz]</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Ingress protection</td>
<td>IP 23S</td>
</tr>
<tr>
<td>Recommended fuse [A]</td>
<td>32 A slow</td>
</tr>
<tr>
<td>Voltage [V]</td>
<td>9 open circuit</td>
</tr>
<tr>
<td>Welding current [A]</td>
<td>5-500</td>
</tr>
</tbody>
</table>

### Documents

- **UWI-500-TP-Owners-manual-10072017**

### Related products

#### Accessories

**Required UWI-500TP accessories kit for stick electrode welding.**

- **632901** TRIPLE CONNECTION DIX-70 MMF, 2 PCS
- **510010** REGULATOR 510 AR/CO2 FLOW 0-35L/MIN
- **510453** LEATHER SPATS, PAIR
- **632794** TIG GLOVES, 6 PAIRS
- **175729** CABLE DRUM W/CRANK
- **526015** SAFE GRINDER 42V FOR WELDING MACHINES
- **632984** WIRE BRUSH STAINL. 6PCS
- **632976** WIRE BRUSH STEEL. 6PCS
- **597328** FLOWCONTROL METER, ARGON
- **516161** WELDING GAUGE TYPE J
- **576157** GAS HOSE 1/4" 6.3MM BLACK
- **500103** UNDERCARRIAGE FOR UWI-500TP
- **768416** CLAMP 1 EAR 12,3-14,3MM 1/4" HOSE
- **670414** REMOTE CONTROL F/UWI-320/500 & UWW-301
- **633248** SHADE 9 GLASS, 5SET
- **905174** ARGON E-50 FILLING
- **607810** TIG TORCH ACCESSORIES KIT
- **632786** WELDERS GLOVES, 6 PAIRS
- **632893** CABLE CONNECTOR DIX70 MALE-FEMALE
- **779034** AUTODARK 820 FRESHAIR COMPLETE
- **670406** ACCESSORIES KIT F/UWI-230,-320,-500

#### Spares

- **597310** FLOWCONTROL VALVE, ARGON
- **576973** REMOTE CONTROL PARALLEL CONNECTION
- **500505** SPARE PART KIT FOR UWI-500TP
- **632632** SHADE 11 GLASS, 5SET
- **528703** AIR CARBON ARC TORCH 600A
- **594317** RETURN CLAMP ASSY 400A W/DIX 70
- **619379** MANOMETER/GAUGE GUARD +
- **709485** FLIPVISION WELDING FACE SHIELD
- **510438** LEATHER JACKET LARGE
- **175844** WELDING CABLE 50 MM2
- **597310** FLOWCONTROL VALVE, ARGON
- **676973** REMOTE CONTROL PARALLEL CONNECTION
- **200000** TIG TORCH T-200 W.DIX 70 CONNECTOR
- **905565** ARGON E-10 FILLING
- **670422** REMOTE CONTROLCABLE FOR UWI-320/500
- **633255** SHADE 10 GLASS, 5SET
- **175851** WELDING CABLE 70 MM2
- **633016** LEATHER TROUSERS W/BELT
- **634121** CONVERSION ASSEM. 2 PCS
- **779032** AUTODARK 300 WELDING SHIELD
- **594325** EL.HOLDER 400A WITH DIX70 CONNECTOR
- **175596** HOSE JOINT F/6MM (1/4 INCH) OX HOSE

- **633263** SHADE 11 GLASS, 5SET
ACCESSORIES KIT F/UWI-230, -320, -500

Is frequently bought together with

<table>
<thead>
<tr>
<th>Code</th>
<th>Item Description</th>
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<th>Item Description</th>
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</thead>
<tbody>
<tr>
<td>670000</td>
<td>ELECTRODE CABINET WITH 27 PACKAGES.</td>
<td>150150</td>
<td>UWI-150TP WELDING INVERTER IN CASE</td>
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<tr>
<td>743476</td>
<td>MAGNET &amp; VOLT STICKS PACK</td>
<td>500000</td>
<td>UCT-500 COMBINATION TORCH MASTER</td>
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