



# SAW Machine Master 1000 CC/CV



**Master 1000**

### Main Applications

- Shipyards
- Steel Structure
- Chemical and process industry

### Advantageous

- Excellent welding properties : CC/CV arc characteristics combined with two adaptive feeding modes ( Stick and SAW ) delivers excellent welding performance, meeting the different requirements of various SAW processes. PWM control technology provides optimal constant output current and superior dynamic characteristics, and assures the consistency of the weld penetration and width even for a long welding bead. As a result, its welding quality is much better than the traditional thyristor submerged arc welding equipments
- Durable reliability : DSP digital phase shifted soft switch inverter technology against various damaged risks such as overload of voltage, overload of current, voltage shortage, overheat delivers high reliability during operating, and makes it can be safely used in various harsh environment
- High energy and low feeding speed program assures one time successful arc starting capability. Unique crater control circuitry significantly eliminates the welding defects in both the starting and the ended position of the welding bead

| Specifications             |                               |
|----------------------------|-------------------------------|
| Rated output current       | 1.000 A                       |
| Rated output               | 100 A / 24 V ~ 1.000 A / 44 V |
| Duty cycle                 | 100 %                         |
| Max. open circuit voltage  | 80 V                          |
| Welding current adjustment | Stepless                      |
| Suitable for               | SAW<br>Gouging<br>SMAW = MMA  |
| Input phase                | 3 Phase                       |
| Input power                | 380 V at ± 15 %               |
| Frequency                  | 50 / 60 Hz                    |
| Rated input current        | 80 A                          |
| Rated input                | 52.7 KVA                      |
| Power factor               | 0.90                          |
| Index protection           | IP 23                         |
| Weight                     | 100 Kg                        |
| Dimension ( L x W x H )    | 805 x 390 x 715 mm            |

| Item Code         | Item Name                                   | MoQ           |
|-------------------|---|---------------|
| <b>105.03.001</b> | <b>SAW Machine - Master 1000 CC/CV</b>      | <b>1 Unit</b> |
|                   | • Lug to Ground Clamp 70 mm2 at 3 m - 2 set |               |

#### Optional Accessories for SAW

|            |   |        |
|------------|---|--------|
| 105.03.002 | X 1000 - SAW Tractor                          | 1 Unit |
| 208.03.002 | Lug to Electrode Holder 600 A, 70 mm2 at 10 m | 1 Set  |
| 208.07.003 | Lug to Electrode Holder 600 A, 70 mm2 at 20 m | 1 Set  |

#### Optional Accessories for Gouging

|            |  |       |
|------------|--|-------|
| 201.27.003 | Gouging Torch G4 - 1000 A - 2.1 m / 7 feet | 1 Set |
|------------|--|-------|

#### Optional Accessories for SMAW / MMA

|            |  |       |
|------------|--|-------|
| 208.03.005 | Plug to Electrode Holder 400 A, 50 mm2 at 5 m  | 1 Set |
| 208.03.006 | Plug to Electrode Holder 400 A, 50 mm2 at 10 m | 1 Set |
| 208.03.007 | Plug to Electrode Holder 400 A, 50 mm2 at 20 m | 1 Set |
| 208.03.008 | Plug to Electrode Holder 400 A, 50 mm2 at 25 m | 1 Set |
| 208.03.001 | Plug to Electrode Holder 400 A, 70 mm2 at 5 m  | 1 Set |
| 208.03.002 | Plug to Electrode Holder 400 A, 70 mm2 at 10 m | 1 Set |
| 208.03.003 | Plug to Electrode Holder 400 A, 70 mm2 at 20 m | 1 Set |
| 208.04.007 | Plug to Ground Clamp 600 A, 50 mm2 at 5 m      | 1 Set |
| 208.04.008 | Plug to Ground Clamp 600 A, 50 mm2 at 10 m     | 1 Set |
| 208.04.004 | Plug to Ground Clamp 600 A, 70 mm2 at 5 m      | 1 Set |
| 208.04.005 | Plug to Ground Clamp 600 A, 70 mm2 at 10 m     | 1 Set |
| 208.04.006 | Plug to Ground Clamp 600 A, 70 mm2 at 15 m     | 1 Set |

#### General Accessories

|            |                                   |       |
|------------|-----------------------------------|-------|
| 201.22.009 | Welding Helmet - Solarmatic Blue  | 1 Set |
| 201.22.010 | Welding Helmet - Solarmatic Red   | 1 Set |
| 201.22.011 | Welding Helmet - Solarmatic Green | 1 Set |