

# ENGINE DRIVEN WELDER

## DSP 400 YSX

### FEATURES

- Arc multi-process welder:
  - SMAW: Shielded Metal Arc welding (Stick)
  - GTAW: Gas Tungsten Arc Welding (TIG) - Contact starting
  - GMAW: Gas Metal Arc Welding (MIG)
  - FCAW: Flux Cored Arc Welding (Flux Cored)
- High frequency digital control of welding current and voltage
- Specific welding programs for cellulose electrodes
- Double welding range (HALF/FULL - 50% / 100%)
- Digital Ammeter/voltmeter welding
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Emergency stop button
- Bundled base
- Meets EC directives for noise and safety



The images are for reference

| STANDARD EQUIPMENT        |                                                                                                                                                                                                                            |                         |                          |                           |             |                          |                  |                        |                             |                    |                          |                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------|---------------------------|-------------|--------------------------|------------------|------------------------|-----------------------------|--------------------|--------------------------|----------------------------------------|
|                           | Diesel engine                                                                                                                                                                                                              | Water cooled            | Battery 12V              | Fuel level gauge          | Hours-meter | Engine protection        | Electric starter | Oil pressure shut down | High temp. engine shut down | Low fuel shut down | Shut down battery charge | Warning light for preheating glow plug |
| OPTIONS ON REQUEST        |                                                                                                                                                                                                                            |                         |                          |                           |             |                          |                  |                        |                             |                    |                          |                                        |
|                           | Asynchronous alternator                                                                                                                                                                                                    | Welding digital control | Welding control selector | Digital welding Volt/Amm. | Sockets     | Ground fault interruptor | Thermal shut off | Voltmeter              | Emergency stop button       | Ready for RC       | Central lifting eye      |                                        |
| VERSION ON REQUEST        | • Wirefeeder WF4 (for MIG welding)<br>• Remote control: RC2 - RC2/90° (cable 20m)<br>RC1 (for vers. PL - cable 20m)                                                                                                        |                         |                          |                           |             |                          |                  |                        |                             |                    |                          |                                        |
|                           | • Welding cables: K400 (20+15m, 50mm²)<br>• Welding kit (mask, gloves, etc.)<br>• Tank locking cap                                                                                                                         |                         |                          |                           |             |                          |                  |                        |                             |                    |                          |                                        |
| OPTIONS FACTORY INSTALLED | • Auxiliary output 400Y/230V: 1x400V 32A 3P+N+T CEE - 1x230V 32A 2P+T CEE<br>• Auxiliary output 400Y/230V: 1x400V 32A 3P+N+T CEE - 1x230V 32A 2P+T CEE - 2x230V 16A 2P+T CEE<br>• PL version: version with polarity change |                         |                          |                           |             |                          |                  |                        |                             |                    |                          |                                        |
|                           | • VRD - Voltage reduction device<br>• Sockets schuko                                                                                                                                                                       |                         |                          |                           |             |                          |                  |                        |                             |                    |                          |                                        |
| TECHNICAL DATA            | • Spark arrestor<br>• Isometer                                                                                                                                                                                             |                         |                          |                           |             |                          |                  |                        |                             |                    |                          |                                        |
|                           | • Auto Idle                                                                                                                                                                                                                |                         |                          |                           |             |                          |                  |                        |                             |                    |                          |                                        |

### Technical data

| C.C. WELDING<br>(Constant Current) | SMAW (STICK)/ GTAW (TIG)<br>CC (Constant Current) | DSP 400 YSX<br>C.C. Welding<br>Constant Current | GMAW (MIG)/ FCAW (FLUX CORED)<br>CV (Constant Voltage) |
|------------------------------------|---------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|
| Current range                      | 10 - 400A                                         | Voltage range                                   | 16 - 40V                                               |
| Duty cycle                         | 400A - 35%, 350 A - 60%, 300A - 100%              | Duty cycle                                      | 350A 60% - 300A 100%                                   |
| Open circuit voltage               | 65V                                               | --                                              | --                                                     |

### A.C. GENERATION - 50Hz - Three-phase asynchronous alternator, self-regulated, self-excited, brushless

|                    |                          |
|--------------------|--------------------------|
| Three-phase power  | 12 kVA / 400 V / 17.3 A  |
| Single-phase power | 7 kVA / 230 V / 30.4 A   |
| Single-phase power | 3.5 kVA / 110 V / 31.8 A |
| Insulation class   | H                        |

### ENGINE - Diesel 4-stroke, direct injection, water cooled

|                                |                   |
|--------------------------------|-------------------|
| Model                          | Yanmar 3TNV76     |
| * Output                       | 16.5 kW (25.4 HP) |
| Cylinders / Displacement       | 3/ 1116 cm³       |
| Speed                          | 3000 rpm          |
| Fuel consumption (welding 60%) | 3.4 l/h           |

\* Maximum output (not overloadable) according to ISO 3046-1

### GENERAL SPECIFICATIONS

|                                                 |                           |
|-------------------------------------------------|---------------------------|
| Tank capacity                                   | 45 l                      |
| Running time (welding 60%)                      | 13 h                      |
| IP protection degree                            | IP 23                     |
| * Dimensions LxIhx (mm)                         | 1610x720x1110             |
| * Dry weight                                    | 530 kg                    |
| ** Measured acoustic power LwA (pressure LpA)   | 92 dB(A) (67 dB(A) @ 7 m) |
| ** Guaranteed acoustic power LwA (pressure LpA) | 93 dB(A) (68 dB(A) @ 7 m) |

\* Values shown do not include trolleys \*\* Acoustic power according to European Directive 2000/14/EC.

Specifications subject to change without notice. For further information please contact the sales department.