





THE SPECIALISM IN QUALITY WITH SOLUTION THAT MAKE A DIFFERENT

SINCE 1965

PROUDLY "MADE IN ITALY""

For more than 50 years, MOSA has been focusing on the performance and reliability of its products. Experience and commitment to innovation has positioned MOSA as a world reference in the design and construction of machines that fulfil the requirements of power generation and welding: comprising generators, engine driven welders and lighting towers.





The ISO 9001 certified process utilised by MOSA uses the most advanced technology and personnel with specialised expertise in all phases of the process that, starting from design, extend to the selection of raw materials and supplies, to the production of the various components and their assembly, as well as the strict tests and functional testing of the finished product; all of which represent the traditional characteristics of "Made in Italy".



THE RANGE

COMPACT WELDERS

\$ P. C.	
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MAGIC WELD 200 YDEPAG.	
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TS 200 DES CFPAG.	
TS 200 BS EL	
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RANGE COMPACT WELDERS

"POWER OPTIMIZER" SYSTEM

Some welding machines incorporate the "Power Optimizer" function, designed and patented by MOSA. This is a specific control technique aimed at preventing the engine overload when working near to its power limit. With the "Power Optimizer" it is possible to ensure stable and optimal operation in all the welding conditions, exploiting the full power of the engine.

AUTO IDLE

The presence of an auto idle economizer introduces the concept of "power on demand", allowing both fuel savings and reduced engine wear.



HANDLE

The handle above the machine allows a better grip for transport.



STRONG STRUCTURE

Machine has a steel structure with motor and alternator assembled on vibration dampers to reduce noise and increase service life.

NEW MAGIC WELD









MAGIC WELD 200 YDE



HONDA GX200 4000 rpm

WELDING PROCESSES

SMAW Shielded Metal Arc welding (STICK)



WELDING PROCESSES

SMAW Shielded Metal Arc welding (STICK)



WELDING PROCESSES

SMAW Shielded Metal Arc welding (STICK)





SERIES:

- Arc welding source in D.C. welding
- High-frequency control of welding current and voltage
- Chopped D.C. auxiliary current (safe for tools)
- Engine shut down for low oil level (oil alert)
- Power optimiser (patent pending)
- Auto Idle

SERIES:

- Arc welding source in D.C. welding
- High-frequency control of welding current and voltage
- Single-Phase, 50Hz aux current, inverter generated
- Engine shut down for low oil level (oil alert)
- Power optimiser (patent pending)
- Auto Idle

SERIES:

X

- Arc welding source in D.C. welding
- High-frequency control of welding current and voltage
- Power optimiser (patent pending)
- Single-Phase, 50Hz aux current, inverter generated
- Low oil pressure automatic engine shut down

	NEW MAGIC WELD	MAGIC WELD 200	MAGIC WELD 200 YDE
D.C. WELDING (Costant Current)			
Current range, continuous	30A ÷ 150A	20A ÷ 200A	20A ÷ 200A
Duty cycle	150A 60%	200A 60%	170A 60%
Open circuit voltage	67V	70V	70V
GENERATION / ALTERNATOR	PERMANENT MAGNET, SELF-EXCITED, BRUSHLESS	PERMANENT MAGNET, SELF-EXCITED, BRUSHLESS	PERMANENT MAGNET, SELF-EXCITED, BRUSHLESS
Three-phase power	/	1	-
Single-phase power	2 kW / 230Vc.c. / 8.7 A	3 kVA / 230V / 13 A	3.3 kVA / 230V / 14.3 A
Single-phase power	1.6 kW / 230Vc.c. / 6.9 A	2.5 kVA / 230V / 10.9 A	3 kVA / 230V / 13 A
Insulation class	H	Н	Н
Frequency	/	50 Hz	50 Hz
ENGINE 4-STROKE			
Model	HONDA GX200	HONDA GX270	YANMAR L70V
Fuel	Petrol	Petrol	Diesel
Net power	4 kW (5.5 HP)	6.3 kW (8.5 HP)	4.9 kW (6.7 HP)
Cylinders / Displacement	1 / 196 cm ³	1 / 270 cm ³	1 / 320 cm ³
Fuel consumption (welding 60%)	1.1 l/h	1.5 l/h	1.0 l/h
GENERAL SPECIFICATIONS			
Tank capacity	3.1	5.3	3.3
Running time (welding 60%)	3 h	3.5 h	3.3 h
IP protection degree	IP 23	IP 23	IP 23
Dimensions Lxlxh (mm)	440x380x490	630x490x540	630x490x540
Dry weight	34 kg	61 kg	91 kg
Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)	99 dB(A) (74 dB(A) @ 7 m)	103 dB(A) (78 dB(A) @ 7 m)

TS 200 BS/CF TS 200 DES/CF







TS 200 BS/EL

HONDA GX390 3000 rpm

WELDING PROCESSES

SMAW Shielded Metal Arc welding (STICK)



WELDING PROCESSES

SMAW Shielded Metal Arc welding (STICK)



WELDING PROCESSES

SMAW Shielded Metal Arc welding (STICK)





SERIES:

- Arc welding source in D.C. welding
- Double welding output 20A ÷ 100A / 90A ÷ 190A
- A.C. generator, single-phase and three-phase
- Ground Fault Interrupter
- Engine shut down for low oil level (oil alert)

SERIES:

- Arc welding source in D.C. welding
- Double welding output 20A ÷ 100A / 90A ÷ 190A
- A.C. generator, single-phase and three-phase
- Ground Fault Interrupter
- Engine shut down for low oil pression

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Ground Fault Interrupter
- Engine shut down for low oil level (oil alert)

	TS 200 BS/CF	TS 200 DES/CF	TS 200 BS/EL
D.C. WELDING (Costant Current)			
Current range, continuous	20A ÷ 100A / 90A ÷ 190A	20 ÷ 100 A / 90 ÷ 190 A	20 ÷ 155 A
Duty cycle	190A 35% - 160A 60% - 120A 100%	190 A 35% - 160 A 60% - 120 A 100%	155 A 60% - 120 A 100%
Open circuit voltage	98V	98 V	65 V
GENERATION / ALTERNATOR	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF- REGULATED,BRUSHLESS
Three-phase power	6 kVA / 400V / 8.7 A	6 kVA / 400 V / 8.7 A	6 kVA / 400 V / 8.7 A
Single-phase power	5 kVA / 230V / 21.7 A	5 kVA / 230 V / 21.7 A	4 kVA / 230 V / 17.4 A
Single-phase power	2 kVA / 110V / 22.7 A	2 kVA / 48 V / 41.6 A	2 kVA / 48 V / 41.6 A
Insulation class	H	Н	Н
Frequency	50 Hz	50 Hz	50 Hz
ENGINE 4-STROKE			
Model	HONDA GX390	YANMAR L100V	HONDA GX390
Fuel	Petrol	Diesel	Petrol
Net power	8.3 kW (11.3 HP)	6.5 kW (8.8 HP)	8.2 kW (11.1 HP)
Cylinders / Displacement	1 / 389 cm ³	1 / 435 cm ³	1 / 389 cm ³
Fuel consumption (welding 60%)	2.1 l/h	1 l/h	2.1 l/h
GENERAL SPECIFICATIONS			
Tank capacity	6.1	5.5	6.1
Running time (welding 60%)	3 h	5.5 h	3 h
IP protection degree	IP 23	IP 23	IP 23
Dimensions Lxlxh (mm)	910x530x620	900x550x620	870x525x590
Dry weight	111 kg	133 kg	105W kg
Acoustic power LwA (pressure LpA)	98 dB(A) (73 dB(A) @ 7 m)	99 dB(A) (74 dB(A) @ 7 m)	98 dB(A) (73 dB(A) @ 7 m)

TS 200 BS/EL P





TS 200 DES/EL

TS 250 KD/EL



HONDA GX390 3000 rpm

WELDING PROCESSES
• SMAW Shielded Metal Arc welding (STICK)



SMAW Shielded Metal Arc welding (STICK)



SMAW Shielded Metal Arc welding (STICK)





SERIES:

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
 Aux power also available while welding
- Ground Fault Interrupter
- Engine shut down for low oil level (oil alert)

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
 Aux power also available while welding
- Ground Fault Interrupter
- Engine shut down for low oil pression

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Ground Fault Interrupter
- Protective frame

	TS 200 BS/EL P	TS 200 DES/EL	TS 250 KD/EL
D.C. WELDING (Costant Current)			
Current range, continuous	20 ÷ 170 A	20 ÷ 170 A	20 ÷ 250 A
Duty cycle	170 A 60% - 140 A 100%	170 A 60% - 130 A 100%	250 A 35% - 200 A 60%
Open circuit voltage	65 V	65 V	70V
GENERATION / ALTERNATOR	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS
Three-phase power	6 kVA / 400 V / 8.7 A	6 kVA / 400 V / 8.7 A	6.5 kVA / 400 V / 9.4 A
Single-phase power	4 kVA / 230 V / 17.4 A	5 kVA / 230 V / 21.7 A	4.5 kVA / 230 V / 19.5 A
Single-phase power	/	2 kVA / 48 V / 41.6 A	2 kVA / 48 V / 41.6 A
nsulation class	Н	Н	Н
requency	50 Hz	50 Hz	50 Hz
ENGINE 4-STROKE			
Model	HONDA GX390	YANMAR L100V	KOHLER KD477/2
Fuel	Petrol	Diesel	Diesel
let power	8.2 kW (11.1 HP)	6.3 kW (8.5 HP)	14.9 kW (20.3 HP)
Cylinders / Displacement	1 / 389 cm ³	1 / 435 cm ³	2 / 954 cm ³
uel consumption (welding 60%)	2 l/h	1 l/h	1.7 l/h
GENERAL SPECIFICATIONS			
Tank capacity	6.1	5.5	91
Running time (welding 60%)	3 h	5.5 h	5.3 h
P protection degree	IP 23	IP 23	IP 23
Dimensions Lxlxh (mm)	870x525x590	900x550x620	1050x530x630
Ory weight	105 kg	133 kg	200 kg
Acoustic power LwA (pressure LpA)	98 dB(A) (73 dB(A) @ 7 m)	99 dB(A) (74 dB(A) @ 7 m)	103 dB(A)(78 dB(A) @ 7m)



CS 230 YSX CC/CV









CS 350 KSX CC/CV



TS 350 YSX BC



YANMAR L100V 3000 rpm

WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK) Gas Tungsten Arc Welding (TIG)

- GMAW Gas Metal Arc Welding (MIG)
 FCAW Flux Cored Arc Welding (FLUX CORED)

KOHLER KD 477/2 3000 rpm



WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)
- Gas Tungsten Arc Welding (TIG)

KOHLER KD 477/2 3000 rpm



WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)

- GMAW Gas Metal Arc Welding (MIG)
 FCAW Flux Cored Arc Welding (FLUX CORED)

SERIES:

- Multi-process arc welder

- Aux power also available while welding
- Engine protection EP7
- Power optimiser (patent pending)
- Large fuel tank (38 I)
- Bunded base
- Emergency stop button

Gas Tungsten Arc Welding (TIG)

3000 rpm ≈

YANMAR 3TNV76



WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)
- Gas Tungsten Arc Welding (TIG with SCRATCH start)

SERIES:

X

- Multi-process arc welder
- High-frequency digital control of welding current and voltage
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Engine protection EV
- Power optimiser (patent pending)

SERIES:

X

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Ground Fault Interrupter
- Engine protection EV

- High-frequency digital control of welding current and voltage
- A.C. generator, single-phase and three-phase

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale
- Aux power also available while welding
- Ground Fault Interrupter
- Engine protection EP7

	CS 230 YSX CC/CV	TS 300 KSX EL	CS 350 KSX CC/CV	TS 350 YSX BC
D.C. WELDING (Costant Current)				
Current range, continuous $20 \div 210 \text{ A (STICK - TIG) } 14 \text{ V} \div 44 \text{ V (MIG)}$		20 ÷ 300 A	20 ÷ 350 A (STICK-TIG) 14 V ÷ 44 V (MIG)	20 ÷ 350 A
Duty cycle	210 A 60% - 180 A 100%	300 A 60% - 250 A 100%	350 A 35% - 300 A 60% - 250 A 100%	350 A 35% - 320 A 60% - 270 A 100%
Open circuit voltage	65V	70V	66V	75V
GENERATION / ALTERNATOR	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF- REGULATED, BRUSHLESS			
Three-phase power	6 kVA / 400 V / 8.7 A	10 kVA / 400 V / 14.4 A	10 kVA / 400 V / 14.4 A	12 kVA / 400 V / 17.3 A
Single-phase power	5 kVA / 230 V / 21.7 A	5 kVA / 230 V / 21.7 A	5 kVA / 230 V / 21.7 A	7 kVA / 230 V / 30.4 A
Single-phase power	1	5 kVA / 48 V / 104 A	5 kVA / 48 V / 104 A	/
Insulation class	Н	Н	Н	Н
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
ENGINE 4-STROKE,				
Model	YANMAR L100V	KOHLER KD 477/2	KOHLER KD 477/2	YANMAR 3TNV76
Fuel	Diesel	Diesel	Diesel	Diesel
Net power	6.3 kW (8.5 HP)	14.9 kW (20.3 HP)	14 kW (19 HP)	16.5 kW (25.4 HP)
Cylinders / Displacement	1 / 435 cm ³	2 / 954 cm ³	2 / 954 cm ³	3 / 1116 cm ³
Fuel consumption (welding 60%)	1 l/h	2.5 l/h	2.5 l/h	3.4 l/h
GENERAL SPECIFICATIONS				
Tank capacity	23	23	38	45
Running time (welding 60%)	23 h	9.2 h	15.2 h	13 h
IP protection degree	IP 23	IP 23	IP 23	IP 23
Dimensions Lxlxh (mm)	1020x645x930	1320x790x750	1230x690x925	1610x720x1110
Dry weight	230 kg	370 kg	345 kg	530 kg
Measured acoustic power LwA (pressure LpA)	91 dB(A) (66 dB(A) @ 7 m)	96 dB(A)(71 dB(A) @ 7m)	94 dB(A) (69 dB(A) @ 7 m)	92 LWA (67 dB(A) @ 7m)
Guaranteed acoustic power LwA (pressure LpA)	92 dB(A) (67 dB(A) @ 7 m)	97 dB(A)(72 dB(A) @ 7m)	95 dB(A) (70 dB(A) @ 7 m)	93 LWA (68 dB(A) @ 7m)

TS 400 KSX EL

TS 400 PS BC

TS 500 PS BC

TS 600 PS BC





KOHLER KD 625/2 3000 rpm

WELDING PROCESSES

• SMAW Shielded Metal Arc welding (STICK)

Gas Tungsten Arc Welding (TIG with SCRATCH start)



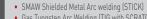




WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)
- Gas Tungsten Arc Welding (TIG with SCRATCH start)





- WELDING PROCESSES
- Gas Tungsten Arc Welding (TIG with SCRATCH start)



WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)
- Gas Tungsten Arc Welding (TIG with SCRATCH start)





SERIES:

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Ground Fault Interrupter
- Engine protection ES

SERIES:

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale
- Arc Gouging dedicated socket
- Aux power also available while welding
- Ground Fault Interrupter Engine protection ES
- Emergency stop button

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale

SERIES:

- Arc Gouging dedicated socket
- Aux power also available while welding
- Ground Fault Interrupter
- Engine protection ES
- Emergency stop button

SERIES:

≈

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale
- Arc Gouging dedicated socket
- A.C. generator also available while welding
- Ground Fault Interrupter
- Engine protection EP7
- Emergency stop button
 - TS 600 PS BC

	TS 400 KSX EL	TS 400 PS BC	TS 500 PS BC	TS 600 PS BC	
D.C. WELDING (Costant Current)					
Current range, continuous	20 ÷ 400 A	20 ÷ 400 A	20 ÷ 500 A	20 ÷ 600 A	
Duty cycle	400 A 35% - 350 A 60% - 300 A 100%	400 A 60% - 350 A 100%	500 A 35% - 450 A 60% - 400 A 100%	600 A 35% - 550 A 60% - 500 A 100%	
Open circuit voltage	70V	70V	70V	75V	
GENERATION / ALTERNATOR	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF- REGULATED, BRUSHLESS				
Three-phase power	13 kVA / 400 V / 18.7 A	16 kVA / 400 V / 23.1 A	16 kVA / 400 V / 23.1 A	40 kVA / 400 V / 57.7 A	
Single-phase power	7 kVA / 230 V / 30.4 A	12 kVA / 230 V / 52.2 A	12 kVA / 230 V / 52.2 A	15 kVA / 230 V / 65.2 A	
Single-phase power	5 kVA / 48 V / 104 A	5 kVA / 48 V / 104 A	6 kVA / 110 V / 54.4 A	8 kVA / 110 V / 72.7 A	
Insulation class	Н	Н	Н	Н	
Frequency	50 Hz	50 Hz	60 Hz	50 Hz	
ENGINE 4-STROKE					
Model	KOHLER KD 625/2	PERKINS 404A-22G1	PERKINS 404A-22G1	PERKINS 1103A - 33TG1	
Fuel	Diesel	Diesel	Diesel	Diesel 45.6 kW (62 HP)	
Net power	18.8 kW (25.5 HP)	20.3 kW (27.6 HP)	22.6 kW (30.7 HP)		
Cylinders / Displacement	2 / 1248 cm ³	4 / 2216 cm ³	4 / 2216 cm ³	3 / 3300 cm ³	
Fuel consumption (welding 60%)	3.2 l/h	3.8 l/h	4.2 l/h	6 l/h	
GENERAL SPECIFICATIONS					
Tank capacity	261	60	60	65 I	
Running time (welding 60%)	8 h	16 h	14.5 h	10.5 h	
IP protection degree	IP 23	IP 23	IP 23	IP 23	
Dimensions Lxlxh (mm)	1455x840x880	1720x980x1110	1720 x 980 x 1110 mm	2030x870x1130	
Dry weight	465 Kg	780 kg	780 kg	1025 kg	
Acoustic power LwA (pressure LpA)	/	/	94 dB(A) (69 dB(A) @ 7 m)	95 dB(A) (70 dB(A) @ 7 m)	
Measured acoustic power LwA (pressure LpA)	96 dB(A)(71 dB(A) @ 7m)	91 LWA (66 dB(A) @ 7m)	/	/	
Guaranteed acoustic power LwA (pressure LpA)	96 dB(A)(71 dB(A) @ 7m)	92 LWA (67 dB(A) @ 7m)	/	/	



RANGE DIGITAL WELDERS DSP

FEATURES

Via a rotary selector you can choose between 5 different welding programs:

- 1. **LIFT ARC TIG** This program performs a TIG welding with a "Lift Arc" start. With this feature the arc is started simply by touching the piece, without scratch.
- 2. **STICK (3 PROGRAMS)** They are specific for the electrode welding (CC), being characterized by three different arc force levels with increasing short circuit current from 1 to 3.
- 3. **MIG MAG** It is dedicated to WIRE welding, WITH GAS or FLUX CORED. This welding process is performed at constant voltage (CV)..



The front panel of the DSP control unit is provided with a military type circular connector which can be connected to a MOSA remote control unit or wire feeder, for MIG MAG. When plugging an external connector the control is automatically switched from the front panel knob to the knob on the remote unit. All the machines of this series are equipped with digital meters to monitor the welding current and voltage.

control panel digital



The software of the control unit, depending on the version of welder on which it is installed, car handle various functions, including:

- a) Power Optimizer A function that prevents overloading of the engine during welding
- b) **VRD** (Voltage Reduction Device) a function that reduces the open circuit voltage to a safe value when not welding
- c) **Reverse polarity** In the models where this function is present, a switch on the panel commands the contactor which implements the polarity reversal

The DSP controller also implements some security features:

- Chopper converter overtemperature
- Overcurrent during welding (due to failure or malfunction)
- Current sensor not connected
- Malfunction of the supply voltage

DSP 400 YSX



WELDING PROCESSES

DSP 500 PS

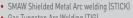
DSP 600 PS





DSP 2x400 PS

YANMAR 3TNV76 3000 rpm



- Gas Tungsten Arc Welding (TIG)
- GMAW Gas Metal Arc Welding (MIG)
- FCAW Flux Cored Arc Welding (FLUX CORED)

PERKINS 404A-22G1 1500 rpm





WELDING PROCESSES

SMAW Shielded Metal Arc welding (STICK)

14011/4 / 4001/ / 00 4 4

20.3 kW (27.6 HP)

4 / 2216 cm³

3.8 l/h

- Gas Tungsten Arc Welding (TIG)
- GMAW Gas Metal Arc Welding [MIG]
- FCAW Flux Cored Arc Welding (FLUX CORED)

PERKINS 1103A-33G 1500 rpm



WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)
- Gas Tungsten Arc Welding (TIG) GMAW Gas Metal Arc Welding (MIG)

00 11/4 / 4001/ / 40 0 4

30.4 kW (41.3 HP)

3 / 3300 cm³

- FCAW Flux Cored Arc Welding (FLUX CORED)

≈

PERKINS 1103A-33TG1

1500 rpm

WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)
- Gas Tungsten Arc Welding (TIG)
- 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 scale (HALF/FULL 50% / 100%)
- Digital Ammeter/voltmeter welding
- A.C. generator, single-phase and three-phase
- Aux power also available while welding

D.C. WELDING (Costant Current)

- Engine protection EP7
- Emergency stop button
- Bunded base

Current range

Voltage range

Open circuit voltage

Duty cycle

Net power

- High frequency digital control of welding current and voltage
- Specific welding programs for cellulose electrodes
- Double welding scale (HALF/FULL 50% / 100%)
- Digital Ammeter/voltmeter welding
- A.C. qe
- Aux power also available while welding

X

- High frequency digital control of welding current and voltage
- Specific welding programs for cellulose electrodes
- Double welding scale (HALF/FULL 50% / 100%)
- Digital Ammeter/voltmeter welding
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Engine protection EP7
- Emergency stop button
- Bunded base

SERIES:

- Two independent welding positions each 400A
- High frequency digital control of welding current and voltage
- Specific welding programs for cellulose electrodes
- Double welding scale (HALF/FULL 50% / 100%)

40 11/4 / 4001/ / 57 0 4

45.6 kW (62 HP)

3 / 3300 cm³

6.7 l/h

- Digital Ammeter/voltmeter welding
- Aux power also available while welding
- Engine protection EP5

ii Arrimeter/voitmeter weiding	
generator, single-phase and three-phase	

- Engine protection EP7
- Emergency stop button

		DSP 500 PS		DSP 600 PS		DSP 2x400 PS	
	GMAW (MIG)/ FCAW (FLUX CORED) - Mode CV	SMAW (STICK)/ GTAW (TIG) Mode CC	GMAW (MIG)/ FCAW (FLUX CORED) - Mode CV	SMAW (STICK)/ GTAW (TIG) Mode CC	GMAW (MIG)/ FCAW (FLUX CORED) - Mode CV	SMAW (STICK)/ GTAW (TIG) Mode CC	GMAW (MIG)/ FCAW (FLUX CORED) - Mode CV
1	-	10 ÷ 500A	-	10A ÷ 600A	-	10 ÷ 400A	-
	16V ÷ 40 V	-	16V ÷ 40 V	-	16V ÷ 40 V	-	16V ÷ 36 V
	3504 60% - 3004 100%	500A 35% - 450A 60% - 400A 100%	450A 60% - 400A 100%	600A 35% - 550A 60% - 500A 100%	550A 60% - 500A 100%	2x400A 35% - 2x360A 60% - 2x330A 100%	2x360A 60% - 2x330A 100%
	-	62 V	-	60V	-	68 V	-

65V GENERATION 50 HZ - THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS

DSP 400 YSX

(TIG) Mode CC

10A ÷ 400A

- 300A 100%

16.5 kW (22.4 HP)

3 / 1116 cm³

3.4 l/h

SMAW (STICK)/ GTAW

400A 35% - 350A 60%

inree-phase power	Inree-phase power 12 kVA / 400V / 17.3 A		30 KVA / 400V / 43.3 A	40 KVA / 400V / 57.8 A	
Single-phase power	Single-phase power 7 kVA / 230V / 30.4 A		15 kVA / 230V / 65.2 A	20 kVA / 230V / 87 A	
Single-phase power	Single-phase power 5 kVA / 48V / 104 A		5 kVA / 48V / 104 A	5 kVA / 48V / 104 A	
Insulation class	Insulation class H		Н	Н	
Frequency 50 Hz		50 Hz	50 Hz	50 Hz	
ENGINE 4-STROKE					
Model Yanmar 3TNV76		Perkins 404A-22G1	Perkins 1103A -33G1	Perkins 1103A -33TG1	
Fuel Diesel D		Diesel	Diesel	Diesel	

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Fuel consumption (welding 60%)

Cylinders / Displacement

	GENERAL SPECIFICATIONS				
	Tank capacity	k capacity 45 l		65 I	102
	Running time (welding 60%)	13 h	16 h	13 h	15 h
	IP protection degree	IP 23	IP 23	IP 23	IP 44
	Dimensions Lxlxh (mm)	1610x720x1110	1720x980x1110	2030x870x1130	2490x1030x1480
	Dry weight	530 kg	750 kg	1000 kg	1350 kg
	Measured acoustic power LwA (pressure LpA)	92 dB(A) (67 dB(A) @ 7 m)	91 LWA (66 dB(A) @ 7m)	94 dB(A) (69 dB(A) @ 7 m)	89 dB(A) (64 dB(A) @ 7 m)
	Guaranteed acoustic power LwA (pressure LpA)	93 dB(A) (68 dB(A) @ 7 m)	92 LWA (67 dB(A) @ 7m)	95 dB(A) (70 dB(A) @ 7 m)	90 dB(A) (65 dB(A) @ 7 m)



WORLD CLASS ENGINES

Water or air-cooled diesel engines from global manufacturers have been chosen to power the engine driven welding models of the new TS-EVO and TS EVO MULTI4 series, guaranteeing their performance and reliability together with world-wide spares support.

Designed for professional use, the TS EVO range is available with power ranging from 300 to 600 Amperes, in 5 different models.

Powered by air or water-cooled diesel engines from leading international brands, they allow manual metal arc welding in Direct Current or scratch start DC TIG welding, ensuring high quality results.

TS EVO TS EVO 4

The engine driven welders of the TS EVO MULTI4 range are multi-process machines that allow you to choose the most suitable welding mode according to the specific requirement with the certainty of always achieving the highest quality results.

They are available in 5 different models with welding outputs ranging from 300 to 500 Amps. There is also a 2x280 Amp dual-operator model, a versatile model which allows operation of the machine for use with one or two welding operators.

All the machines in the TS EVO MULTI4 range are powered by water or air-cooled diesel engines from leading international brands.

EVO CONTROL

EVO INSTRUMENT

MULTI4 CONTROL







TS 2x280 EVO 4

LARGE FUEL TANK, LONG RUN **CAPABILITY**

The engine driven welders of the TS EVO and TS EVO MULTI4 series are equipped with a large fuel tank, which guarantees long run capability.

•••••

ORIGINAL MOSA THREEPHASE ASYNCHRONOUS ALTERNATORS

The engine driven welders of the TS_EVO_and TS EVO MULTI4 series use original MOSA three-phase asynchronous alternators. A component renowned for its durable reliability in all conditions.

MACHINE PARAMETERS AND ENGINE DIGITAL CONTROL

A digital module inserted in the control panel allows easy viewing of major engine functions (start up, shutdown, engine alarms, fuel level, battery voltage, etc.) together with AC generating values (frequency and three-phase or single-phase voltage).



TS 600 EVO

OPTIMISATION OF THE COOLING SYSTEM

A carefully considered and accurate design allowed the optimization of the cooling flows inside the machine, with the result of guaranteed performances in the most prohibitive climatic conditions.

MODERN AND FUNCTIONAL DESIGN

- Rounded edges deflect sand, dust, and water from the canopy.
- The compact dimensions without protrusions assist favour stacking and transport.
- The large pockets in the base, allow for smooth handling with a forklift.
- The lifting point is part of the structure and mounted on the cover of the machine.
- The exhaust pipe, which can be placed on the cover, is adjustable and removable.
- Accessibility for maintenance within the machine is ensured by two fully opening side panels.







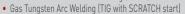


TS 300 EV0



WELDING PROCESSES





3000 rpm



KOHLER KD 477-2







- Arc welding source in D.C. welding
- Welding arc and current electronic regulation
- A.C. generator, single-phase and three-phase also available
- Engine control digital module
- Bunded base
- Central lifting eye

TS 400 EV0



KOHLER KD 625/2



WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)
- Gas Tungsten Arc Welding (TIG with SCRATCH start)

1500 rpm



DEUTZ F4L2011



WELDING PROCESSES

- SMAW Shielded Metal Arc welding (STICK)
- Gas Tungsten Arc Welding (TIG with SCRATCH start)

TS 600 EV0

SERIES:

- Arc welding source in D.C. welding
- Welding arc and current electronic regulation
- A.C. generator, single-phase and three-phase also available
- Engine control digital module
- Bunded base
- · Central lifting eye

- Arc welding source in D.C. welding
- Welding arc and current electronic regulation
- Double welding scale
- Arc Gouging dedicated socket
- A.C. generator, single-phase and three-phase also available
- Engine control digital module
- Bunded base
- Base plate with forklift pockets
- Central lifting eye
- Stackable machine frame (max 2 units)

	TS 300 EV0	TS 400 EV0	TS 600 EV0	
D.C. WELDING (Costant Current)				
Current range, continuous	20 ÷ 300 A	20 ÷ 400 A	20 ÷ 550 A	20 ÷ 600 A
Duty cycle	300 A - 60% 250 A - 100%	350 A - 60% 300 A - 100%	500 A - 60% I 400 A - 100%	550 A - 60% I 450 A - 100%
Open circuit voltage	66 V	70 V	72 V (78 V di picco)	75 V (80 V di picco)
GENERATION / ALTERNATOR	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	THREE-PHASE ASYNCRONOUS, SELI Brushless	F-EXCITED, SELF-REGULATED,
Three-phase power	10 kVA / 400 V / 14.4 A	13 kVA / 400 V / 18.7 A	18 kVA / 400 V / 26 A	20 kVA / 400 V / 29.9 A
Single-phase power	5 kVA / 230 V / 21.7 A	7 kVA / 230 V / 30.4 A	10 kVA / 2	30 V / 43 A
Single-phase power	5 kVA / 48 V / 104 A	5 kVA / 48 V / 104 A	5 kVA / 11	5 V / 43.5 A
Insulation class	H	Н		Н
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
ENGINE 4-STROKE				
Model	KOHLER KD 477-2	KOHLER KD 625/2	DEUTZ	F4L2011
Fuel	Diesel	Diesel	Di	esel
Net power	14.9 kW (20.3 HP)	18.8 kW (25.5 HP)	29 kW	(39.4 HP)
Cylinders / Displacement	2 / 954 cm ³	2 / 1248 cm ³	4 / 31	10 cm ³
Fuel consumption (welding 60%)	2.5 l/h	3.2 l/h	4.6 l/h	5.7 lt/h
GENERAL SPECIFICATIONS				
Tank capacity	38	38	6	0
Running time (welding 60%)	15 h	12 h	13 h	
IP protection degree	IP 23	IP 23	IP 23	
Dimensions Lxlxh (mm)	1039x716x815	1410x716x895	1600x7	90x1125
Dry weight	380 kg	400 kg	85	0 kg
Measured acoustic power LwA (pressure LpA)	96 dB(A) (71 dB(A) @ 7 m)	96 dB(A) (71 dB(A) @ 7 m)	96 dB(A) (73	dB(A) @ 7 m)

TS 400 EVO MULTI4

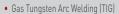


TS 400 EVO MULTI4









WELDING PROCESSES

- GMAW Gas Metal Arc Welding (MIG)
- FCAW Flux Cored Arc Welding (FLUX CORED)

TS 2x280 EV0 MULTI4

KOHLER KD 625/2 3000 rpm

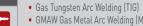












WELDING PROCESSES

- GMAW Gas Metal Arc Welding (MIG)
- FCAW Flux Cored Arc Welding (FLUX CORED)

SMAW Shielded Metal Arc welding (STICK)

SERIES:

- Arc welding source in D.C. welding
- Welding arc and current electronic regulation
- A.C. generator, single-phase and three-phase also available
- Engine control digital module
- Bunded base
- Central lifting eye

1500 rpm





GMAW Gas Metal Arc Welding (MIG)

FCAW Flux Cored Arc Welding (FLUX CORED)

TS 600 EVO MULTI4

SERIES:

- Multi-process arc welder

- Engine protection EP7

- High-frequency digital control of welding current and voltage
 A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Power optimiser (patent pending)
- Large fuel tank (38 l)Bunded base
- Emergency stop button

SERIES:

- Multi-process arc welder
- Two independent welding positions each 250A
- Single welding position 500A
- Welding parameters digital control
- Welding digital ammeter/voltmeter with parameter pre-setting

TS 2x280 EV0 MULTI4

- Aux power also available while welding
- Engine control digital module
- Bunded base with forklift pockets
- · Central lifting eye
- Stackable machine frame (max 2 units)

	15 400 EVO MULTI4	15 000 EVU WULI 14		15 ZXZ60 EVO MULI14
D.C. WELDING (Costant Current)				
Current range, continuous	20 ÷ 400 A 14 ÷ 45 V per MIG e FILO ANIMATO	20 ÷ 550 A 14 ÷ 45 V per MIG e FILO ANIMATO		20 \div 250 A (DUAL), 20 \div 500 A (SINGLE) per STICK e TIG 14 \div 45 V per MIG e FILO ANIMATO
Duty cycle	350 A - 60% 300 A - 100%	500 A - 60% 400 A - 100%	550 A - 60% 450 A - 100%	230 A - 60% 200 A - 100% (DUAL) 440 A - 60% 400 A - 100% (SINGLE)
Open circuit voltage	70 V	72 V (78 V di picco)	75 V (80 V di picco)	75 V (80 V di picco)
GENERATION / ALTERNATOR	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS		THREE-PHASE ASYNCRONOUS, SELF-EXCITED, SELF-REGULATED, BRUSHLESS
Three-phase power	13 kVA / 400 V / 18.7 A	18 kVA / 400 V / 26 A	20 kVA / 400 V / 29.9 A	15 kVA / 400 V / 17.3 A
Single-phase power	7 kVA / 230 V / 30.4 A	10 kVA / 230 V / 43 A		7 kVA / 230 V / 30.4 A
Single-phase power	5 kVA / 48 V / 104 A	5 kVA / 115 V / 43.5 A		5 kVA / 115 V / 43.5 A
Insulation class	H		Н	Н
Frequency	50 Hz	50 Hz	60 Hz	50 Hz
ENGINE 4-STROKE				
Model	KOHLER KD 625/2	DEUTZ F4L2011		KUBOTA V1505
Fuel	Diesel	Diesel		Diesel
Net power	18.8 kW (25.5 HP)	34.5 kW (47 HP)		25.5 kW (34.5 HP)
Cylinders / Displacement	2 / 1248 cm ³	4 / 3110 cm ³		4 / 1498 cm ³
Fuel consumption (welding 60%)	3.2 l/h	4.6 l/h	5.7 lt/h	4.6 l/h
GENERAL SPECIFICATIONS				
Tank capacity	38 I	6	0	60
Running time (welding 60%)	12 h	10.5 h		15 h
IP protection degree	IP 23	IP 23		IP 23
Dimensions Lxlxh (mm)	1410x716x895	1600x790x1125		1600x790x1141
Dry weight	400 kg	850 kg		700 kg
Acoustic power LwA (pressure LpA)	96 dB(A) (71 dB(A) @ 7 m)	98 dB(A) (73 dB(A) @ 7 m)		98 dB(A)(73 dB(A) @ 7m)

TS 600 EVO MULTI4





SPARE PARTS

A complete range of original spare parts, guaranteed directly by the manufacturer.



ASSISTANCE

A team of specialists, well prepared and available to assure an efficient and resolving service.



WARRANTY

A precise certainty for the customer's satisfaction: 2-year warranty included in the price.



LUBRICANTS

We recommends to use the original PowerLube lubricants.



