

MOSA



EN


MOSA Weld

GENERAL CATALOGUE ENGINE DRIVEN WELDERS

MOSA

EXCLUSIVELY MOSA

SINCE
1963

THE SPECIALIST IN QUALITY WITH SOLUTIONS THAT MAKE A DIFFERENCE

SINCE 1963.

GLOBAL REFERENCE FOR POWER GENERATION & ENGINE DRIVEN EQUIPMENT



For over 50 years MOSA has addressed market demand by focusing on the performance and reliability of its products. Experience and commitment to innovation has positioned MOSA as a worldwide reference in the manufacture of products that meet client needs in terms of lighting towers, power generation and engine driven welding equipment. From this unique know-how technologies and products are designed and manufactured with strict quality principles that have underpinned the success of MOSA's solutions for the most demanding of end-users.

MADE IN ITALY



PIPES



ROAD WORKS



YARDS



INDUSTRY

THE RANGE



PORTABLE

PORTABLE - PETROL - CHOPPER SYSTEM

NEW MAGIC WELD.....	PAG. 9
MAGIC WELD 200.....	PAG. 9

PORTABLE - DIESEL - CHOPPER SYSTEM

MAGIC WELD 200 YD.....	PAG. 10
MAGIC WELD 200 YDE.....	PAG. 10

PORTABLE - PETROL/DIESEL - AIR COOLED

TS 200 BS CF.....	PAG. 11
TS 200 DS CF I DES CF.....	PAG. 11
TS 200 BS EL.....	PAG. 12
TS 200 BS EL P.....	PAG. 12
TS 200 DES EL.....	PAG. 13



PROFESSIONAL

PORTABLE - PETROL/DIESEL - AIR COOLED

TS 250 KD EL.....	PAG. 16
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WELDER/GENERATOR - SUPERSILENCED - AIR COOLED/WATER - 3000 RPM

CS 230 YSX CC/CV.....	PAG. 16
TS 300 KSX EL.....	PAG. 17
CS 350 KSX CC/CV.....	PAG. 17
TS 400 KSX EL.....	PAG. 18
TS 350 YSX BC.....	PAG. 18

WELDER/GENERATOR - SILENCED/SUPERSILENCED - WATER COOLED - 1500 RPM

TS 400 PS BC.....	PAG. 19
TS 500 PS-BC 60Hz.....	PAG. 19
TS 600 PS BC.....	PAG. 20
TS 2X400 PSX BC.....	PAG. 20



DSP

SILENCED/SUPERSILENCED - WATER COOLED - 1500/3000 RPM

DSP 400 YSX.....	PAG. 26
DSP 500 PS.....	PAG. 26
DSP 600 PS.....	PAG. 27
DSP 2x400 PS.....	PAG. 27

THE RANGE

PORTABLE



✓ Silenced/
SuperSilenced

✓ Manual trolley

✓ Protective frame

✓ Diesel/Petrol

✓ Arc welding source
in D.C. welding



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 .



SMALL IN SIZE BIG ON PERFORMANCE

LAUNCHED IN 2005 THE NEW MAGIC WELD IS A COMPACT PROFESSIONAL WELDER-GENERATOR WHICH IS EASY TO TRANSPORT.

The weight of the whole machine is only 34 kg. Driven by a Honda 4-stroke petrol engine, it uses an innovative permanent magnet alternator to supply a welding current of up to 150 A DC, and it can function simultaneously as a welder and generator.



The presence of an auto idle economizer introduces the concept of “power on demand”, allowing both fuel savings and reduced engine wear. The New Magic Weld is able to weld any kind of electrode (rutile, basic, cellulose) up to 3.25 mm and takes full advantage of the engine’s power output thanks to a technology developed by MOSA known as “Power Optimizer”. Additionally, you can also use it as auxiliary power generator 230v or 110v up to 2 kW DC to power small tools or lighting. The New Magic Weld is compact and professional, proves indispensable as the most portable machine for carrying out welding repairs on site.

PORTABLE

MAGIC WELD 200

ALL THE POWER
OF 200A IN 61 KG
PACKAGE

The weight of the whole machine is only 57 kg. Driven by a Honda petrol engine it uses an innovative permanent magnet to supply a welding current of up to 200A DC, and it can function simultaneously as a welder and generator.



The presence of an auto idle economizer introduces the concept of “**power on demand**”, allowing both fuel savings and reduced engine wear. The Magic Weld 200 is able to weld any kind of electrode (rutile, basic, cellulose) up to 4 mm and takes full advantage of the engine’s power output thanks to a technology developed by MOSA known as “Power Optimizer”. AC auxiliary power of 3.25 kW/50 Hz 230v or 110v is also available, suitable for powering small tools or lighting. Another professional feature of the Magic Weld 200 is its set-up for connection to a remote control (optional), which allows the operator to control the machine from a distance of up to 20 m.



NEW MAGIC WELD



D.C. WELDING (Constant Current)

Current range, continuous	30A ÷ 150A
Duty cycle	150A - 60%
Open circuit voltage	67V

A.C. GENERATION - 50HZ

PERMANENT MAGNET ALTERNATOR, SELF-EXCITED, BRUSHLESS

Single-phase generation (max)	2 kW / 230V c.c. / 8.7 A
Single-phase generation (continuous)	1.6 kW / 230V c.c. / 6.9 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- High frequency control of welding current and voltage
- Permanent magnet alternator
- Chopped D.C. auxiliary current (safe for tools)
- Engine shut down for low oil level (oil alert)
- Power optimiser (patent pending)
- Auto Idle
- Meets EC directives

ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Honda GX 200
* Output	4 kW (5.5 HP)
Cylinders / Displacement	1 / 196 cm ³
Speed	4000 rpm
Fuel consumption (welding 60%)	1,1 l/h

* Maximum output (not overloadable) according to SAE J1349

GENERAL SPECIFICATIONS

Tank capacity	3.1 l
Running time (welding 60%)	3 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	420x360x480
* Dry weight	34 kg
** Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)

* Values shown do not include trolleys. ** For fixed installation only

MAGIC WELD 200



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 200A
Duty cycle	200A - 60%
Open circuit voltage	70V

A.C. GENERATION - 50HZ

PERMANENT MAGNET ALTERNATOR, SELF-EXCITED, BRUSHLESS

Single-phase generation (max)	3 kVA / 230V / 13 A
Single-phase generation (continuous)	2.5 kVA / 230V / 10.9 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- High frequency control of welding current and voltage
- Permanent magnet alternator
- Single-Phase, 50Hz aux current, inverter generated
- Engine shut down for low oil level (oil alert)
- Power optimiser (patent pending)
- Auto Idle
- Protective frame
- Meets EC directives

ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Honda GX 270
* Output	6.3 kW (8.5 HP)
Cylinders / Displacement	1 / 270 cm ³
Speed	3600 rpm
Fuel consumption (welding 60%)	1.5 l/h

* Maximum output (not overloadable) according to SAE J1349

GENERAL SPECIFICATIONS

Tank capacity	5.3 l
Running time (welding 60%)	3.5 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	630x490x540
* Dry weight	61 kg
** Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)

* Values shown do not include trolleys. ** For fixed installation only

PORTABLE



PORTABLE
DIESEL
CHOPPER SYSTEM

MAGIC WELD 200 YD



D.C. WELDING (Constant Current)	
Current range, continuous	20A ÷ 200A
Duty cycle	170A - 60%
Open circuit voltage	70V
A.C. GENERATION - 50HZ	
PERMANENT MAGNET ALTERNATOR, SELF-EXCITED, BRUSHLESS	
Single-phase generation (max)	3.3 kVA / 230V / 14.3 A
Single-phase generation (continuous)	3 kVA / 230V / 13 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- High frequency control of welding current and voltage
- Power optimiser (patent pending)
- Permanent magnet alternator
- Single-Phase, 50Hz aux current, inverter generated
- Protective frame
- Meets EC directives

ENGINE - DIESEL, 4-STROKE, OHV, AIR COOLED

Model	Yanmar L70N
* Output	4.9 kW (6.7 HP)
Cylinders / Displacement	1 / 320 cm ³
Speed	3600 rpm
Fuel consumption (welding 60%)	1.0 l/h

* Maximum output (not overloadable) according to SAE J1349

GENERAL SPECIFICATIONS

Tank capacity	3.3 l
Running time (welding 60%)	3.3 h
IP protection degree	IP 23
* Dimensions LxHxW (mm)	630x490x540
* Dry weight	72 kg
** Acoustic power LwA (pressure LpA)	103 dB(A) (78 dB(A) @ 7 m)

* Values shown do not include trolleys. ** For fixed installation only

MAGIC WELD 200 YDE

PORTABLE
DIESEL
CHOPPER SYSTEM



D.C. WELDING (Constant Current)	
Current range, continuous	20A ÷ 200A
Duty cycle	170A - 60%
Open circuit voltage	70V
A.C. GENERATION - 50HZ	
PERMANENT MAGNET ALTERNATOR, SELF-EXCITED, BRUSHLESS	
Single-phase generation (max)	3.3 kVA / 230V / 14.3 A
Single-phase generation (continuous)	3 kVA / 230V / 13 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- High frequency control of welding current and voltage
- Power optimiser (patent pending)
- Permanent magnet alternator
- Single-Phase, 50Hz aux current, inverter generated
- Low oil pressure automatic engine shut down
- Auto Idle
- Protective frame
- Meets EC directives

ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Yanmar L70N
* Output	4.9 kW (6.7 HP)
Cylinders / Displacement	1 / 320 cm ³
Speed	3600 rpm
Fuel consumption (welding 60%)	1.0 l/h

* Maximum output (not overloadable) according to SAE J1349

GENERAL SPECIFICATIONS

Tank capacity	3.3 l
Running time (welding 60%)	3.3 h
IP protection degree	IP 23
* Dimensions LxHxW (mm)	630x490x540
* Dry weight	91 kg
** Acoustic power LwA (pressure LpA)	103 dB(A) (78 dB(A) @ 7 m)

* Values shown do not include trolleys. ** For fixed installation only

PORTABLE



PORTABLE
PETROL/DIESEL - SILENCED
AIR COOLED - 3000 RPM

TS 200 BS CF



D.C. WELDING (Constant Current)	
Current range, continuous	20A ÷ 100A - 90A ÷ 190A
Duty cycle	190A 35% - 160A 60% - 120A 100%
Open circuit voltage	98V
A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS	
Three-phase generation	6 kVA / 400V / 8.7 A
Single-phase generation	5 kVA / 230V / 21.7 A
Single-phase generation	2 kVA / 48V / 41.6 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Double welding output 20A ÷ 100A / 90A ÷ 190A
- A.C. generator, single-phase and three-phase
- ELCB-GFI (Ground Fault Interruptor)
- Sockets: 1x400V 16A 3P+N+T EC - 1x230V 16A 2P+T EC - 1x48V 32A 2P EC
- Protective frame
- Meets EC directives

ENGINE GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Honda GX 390
* Output	8.2 kW (11.1 HP)
Cylinders / Displacement	1 / 389 cm³
Speed	3000 rpm
Fuel consumption (welding 60%)	2 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	6.1 l
Running time (welding 60%)	3 h
IP protection degree	IP 23
* Dimensions LxHxW (mm)	910 x 530 x 580 mm
* Dry weight	111 kg
** Acoustic power LwA (pressure LpA)	98 dB(A) (73 dB(A) @ 7 m)

* Values shown do not include trolleys. ** For fixed installation only

TS 200 DS CF | DES CF

PORTABLE
PETROL/DIESEL - SILENCED
AIR COOLED - 3000 RPM



D.C. WELDING (Constant Current)	
Current range, continuous	20A ÷ 100A - 90A ÷ 190A
Duty cycle	190A 35% - 160A 60% - 120A 100%
Open circuit voltage	98 V
A.C. GENERATION - 50HZ - THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS	
Three-phase generation	6 kVA / 400V / 8.7 A
Single-phase generation	5 kVA / 230V / 21.7 A
Single-phase generation	2 kVA / 48V / 41.6 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Double welding output 20A ÷ 100A / 90A ÷ 190A
- A.C. generator, single-phase and three-phase
- ELCB-GFI (Ground Fault Interruptor)
- Sockets: 1x400V 16A 3P+N+T EC - 1x230V 16A 2P+T EC - 1x 48V 32A 2P EC
- Manual recoil (DS) - Electric starter (DES)
- Protective frame
- Meets EC directives

ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Yanmar L 100 N
* Output	6.5 kW (8.8 HP)
Cylinders / Displacement	1 / 435 cm³
Speed	3000 rpm
Fuel consumption (welding 60%)	1 l/h

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

GENERAL SPECIFICATIONS

	TS 200 DS/CF	TS 200 DES/CF
Tank capacity		5.5 l
Running time (welding 60%)		5.5 h
IP protection degree		IP 23
* Dimensions LxHxW (mm)		900x550x620
* Dry weight	130 kg	150 kg
** Acoustic power LwA (pressure LpA)		99 dB(A) (74 dB(A) @ 7 m)

* Values shown do not include trolleys. ** For fixed installation only

PORTABLE



PORTABLE
PETROL/DIESEL - SILENCED
AIR COOLED - 3000 RPM

TS 200 BS EL



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 155A
Duty cycle	155 A 60% - 120A 100%
Open circuit voltage	65V

A.C. GENERATION - 50HZ - THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	6 kVA / 400V / 8.7 A
Single-phase generation	4 kVA / 230V / 17.4 A
Single-phase generation	2 kVA / 48V / 41.6 A
Booster - Engine starting device	170A - 12Vc.c. - 24Vc.c.
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- ELCB-GFI (Ground Fault Interruptor)
- Sockets: 1x400V 16A 3P+N+T EC - 1x230V 16A 2P+T EC - 1x48V 32A 2P EC
- Engine shut down for low oil level (oil alert)
- Protective frame
- Meets EC directives

ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Honda GX 390
* Output	8.2 kW (11.1 HP)
Cylinders / Displacement	1 / 389 cm³
Speed	3000 rpm
Fuel consumption (welding 60%)	2 l/h

* Maximum output (not overloadable) according to SAE J1349

GENERAL SPECIFICATIONS

Tank capacity	6.1 l
Running time (welding 60%)	3 h
IP protection degree	IP 23
* Dimensions LxHxW (mm)	870x525x590
* Dry weight	106 kg
** Acoustic power LwA (pressure LpA)	98 dB(A) (73 dB(A) @ 7 m)

* Values shown do not include trolleys. ** For fixed installation only

TS 200 BS EL P

PORTABLE
PETROL/DIESEL - SILENCED
AIR COOLED - 3000 RPM



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 170A
Duty cycle	170A 60% - 140A 100%
Open circuit voltage	65V

A.C. GENERATION - 50HZ - THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	6 kVA / 400V / 8.7 A
Single-phase generation	4 kVA / 230V / 17.4 A
Booster - Engine starting device	170A - 12Vc.c. - 24Vc.c.
Insulation class	H

FEATURES

- 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
- ELCB-GFI (Ground Fault Interruptor)
- Sockets: 1x400V 16A 3P+N+T EC - 1x230V 16A 2P+T SCHUKO
- Engine shut down for low oil level (oil alert)
- Protective frame
- Meets EC directives

ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Honda GX 390
* Output	8.2 kW (11.1 HP)
Cylinders / Displacement	1 / 389 cm³
Speed	3000 giri/min.
Fuel consumption (welding 60%)	2 l/h

* Maximum output (not overloadable) according to SAE J1349

GENERAL SPECIFICATIONS

Tank capacity	6.1 l
Running time (welding 60%)	3 h
IP protection degree	IP 23
* Dimensions LxHxW (mm)	870x525x590
* Dry weight	106 kg
** Acoustic power LwA (pressure LpA)	98 dB(A) (73 dB(A) @ 7 m)

* Values shown do not include trolleys. ** For fixed installation only

PROFESSIONAL



PORTABLE
PETROL/DIESEL - SILENCED
AIR COOLED - 3000 RPM

TS 200 DES EL



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 170A
Duty cycle	170A 60% - 130A 100%
Open circuit voltage	65 V

A.C. GENERATION - 50HZ - THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	6 kVA / 400V / 8.7 A
Single-phase generation	5 kVA / 230V / 21.7 A
Single-phase generation	2 kVA / 48V / 41.6 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- ELCB-GFI (Ground Fault Interruptor)
- Sockets: 1x400V 16A 3P+N+T EC - 1x230V 16A 2P+T EC - 1x48V 32A 2P EC
- Electric Starter
- Protective frame
- Meets EC directives

ENGINE - GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Yanmar L 100 N
* Output	6.5 kW (8.8 HP)
Cylinders / Displacement	1 / 435 cm ³
Speed	3000 rpm
Fuel consumption (welding 60%)	1 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	5.5 l
Running time (welding 60%)	5.5 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	900 x 550 x 620
* Dry weight	133 kg
** Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)

* Values shown do not include trolleys ** For fixed installation only.



MOSA Weld

THE RANGE

PROFESSIONAL MOTOR WELDERS



- ✓ Power optimiser (patent pending)
- ✓ Welds any type of electrode, including cellulosic
- ✓ Arc welding source in D.C. welding
- ✓ Arc Gouging dedicated socket

- ✓ Silenced/SuperSilenced
- ✓ Site tow
- ✓ Engine protection
- ✓ Diesel / Petrol

COMPACT AND REALIBLE FOR PROFESSIONAL

They are designed to satisfy the needs of the most demanding welding techniques.

Can operate simultaneously either as a welder as generator three-phase and single-phase.



WAC

CC/CV Welding
Control Panel

Furthermore are suitable for a wide range of uses, including the metallic construction, construction, pipeline and shipyards. The welding current is continuous and can weld electrode (rutile, basic, cellulose) up to 8 mm diameter. The motor welding are soundproof.



PROFESSIONAL



PORTABLE
PETROL/DIESEL - SILENCED
AIR COOLED - 3000 RPM

TS 250 KD EL



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 250A
Duty cycle	250A 35% - 200A 60%
Open circuit voltage	70V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	6.5 kVA / 400V / 9.4 A
Single-phase generation	4.5 kVA / 230V / 19.5 A
Single-phase generation	2 kVA / 48V / 41.6 A
Booster - Engine starting device	200A / 12Vc.c. - 24Vc.c.
Insulation class	H

FEATURES

- 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
- ELCB-GFI (Ground Fault Interruptor)
- Sockets: 1x400V 16A 3P+N+T EC - 1x230V 16A 2P+T EC - 1x 48V 32A 2P EC
- Protective frame
- Meets EC directives

ENGINE GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	KOHLER KD 477/2
* Output	14.9 kW (20.3 HP)
Cylinders / Displacement	2 / 954 cm ³
Speed	3000 rpm
Fuel consumption (welding 60%)	1.7 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	9 l
Running time (welding 60%)	5.3 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	1050x530x630
* Dry weight	200 kg
** Acoustic power LwA (pressure LpA)	103 dB(A)(78 dB(A) @ 7m)

* Values shown do not include trolleys. ** For fixed installation only.

CS 230 YSX CC/CV



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 210A (STICK - TIG) 14V ÷ 44V (MIG)
Duty cycle	210A 60% - 180A 100%
Open circuit voltage	65V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	6 kVA / 400V / 8.7 A
Single-phase generation	5 kVA / 230V / 21.7 A
Insulation class	H

WELDER/GENERATOR
SILENCED/SUPERSILENCED
AIR COOLED - 3000 RPM

FEATURES

- Arc welding source in D.C. welding
- Shielded Metal Arc welding SMAW (STICK)
- Gas Tungsten Arc Welding GTAW (TIG)
- Gas Metal Arc Welding (MIG)
- High frequency control of welding current and voltage
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- ELCB-GFI (Ground Fault Interruptor)
- Engine protection EV
- Super Silenced
- Meets EC directives for noise and safety

ENGINE GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	Yanmar L 100 N
* Output	6.5 kW (8.8 HP)
Cylinders / Displacement	1 / 435 cm ³
Speed	3000 rpm
Fuel consumption (welding 60%)	1 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	23 l
Running time (welding 60%)	23 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	1020x645x930
* Dry weight	230 kg
** Measured acoustic power LwA (pressure LpA)	91 dB(A)(66 dB(A) @ 7m)
** Guaranteed acoustic power LwA (pressure LpA)	92 dB(A)(67 dB(A) @ 7m)

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

PROFESSIONAL



WELDER/GENERATOR
SILENCED/SUPERSILENCED
AIR COOLED - 3000 RPM

TS 300 KSX EL



D.C. WELDING (Constant Current)

Current range, continuous	20 A ÷ 300A
Duty cycle	300A 60% - 250A 100%
Open circuit voltage	70V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	10 kVA / 400V / 14.4 A
Single-phase generation	5 kVA / 230V / 21.7 A
Single-phase generation	5 kVA / 48V / 104 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- ELCB-GFI (Ground Fault Interruptor)
- Super Silenced
- Engine protection EV
- Meets EC directives for noise and safety

ENGINE GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	KOHLER KD 477/2
* Output	14.9 kW (20.3 HP)
Cylinders / Displacement	2 / 954 cm ³
Speed	3000 rpm
Fuel consumption (welding 60%)	2.5 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	23 l
Running time (welding 60%)	9.2 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	1320x790x750
* Dry weight	375 kg
** Measured acoustic power LwA (pressure LpA)	97 dB(A) (72 dB(A) @ 7m)
** Guaranteed acoustic power LwA (pressure LpA)	96 dB(A) (71 dB(A) @ 7m)

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

CS 350 KSX CC/CV

WELDER/GENERATOR
SILENCED/SUPERSILENCED
AIR COOLED - 3000 RPM



D.C. WELDING (Constant Current)

Current range	20A ÷ 350A (STICK-TIG) 14V ÷ 44V (MIG)
Duty cycle	350A 35% - 300A 60% - 250A 100%
Open circuit voltage	66V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	10 kVA / 400V / 14.4 A
Single-phase generation	5 kVA / 230V / 21.7 A
Single-phase generation	5 kVA / 48V / 104 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Shielded Metal Arc welding SMAW (STICK)
- Gas Tungsten Arc Welding GTAW (TIG)
- Gas Metal Arc Welding (MIG)
- High frequency control of welding current and voltage
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- Engine protection EP7
- Power optimiser (patent pending)
- Large fuel tank (38 l)
- Bundled base
- Emergency stop button
- Meets EC directives for noise and safety

ENGINE GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	KOHLER KD 477.2
* Output	14.9 kW (20.3 HP)
Cylinders / Displacement	2 / 954 cm ³
Speed	3000 rpm
Fuel consumption (welding 60%)	2.5 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	38 l
Running time (welding 60%)	15.2 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	1230x690x925
* Dry weight	345 kg
** Measured acoustic power LwA (pressure LpA)	95 dB(A) (70 dB(A) @ 7m)
** Guaranteed acoustic power LwA (pressure LpA)	95 dB(A) (70 dB(A) @ 7m)

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

PROFESSIONAL



WELDER/GENERATOR
SILENCED/SUPERSILENCED
AIR COOLED - 3000 RPM

TS 400 KSX EL



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 400A
Duty cycle	400A 35% - 350A 60% - 300A 100%
Open circuit voltage	70V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	13 kVA / 400V / 18.7 A
Single-phase generation	7 kVA / 230V / 30.4 A
Single-phase generation	5 kVA / 48V / 104 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Electronic regulation of welding current
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- ELCB-GFI (Ground Fault Interruptor)
- Electric Starter
- Engine protection ES
- Meets EC directives for noise and safety

ENGINE GASOLINE, 4-STROKE, OHV, AIR COOLED

Model	KOHLER KD 625/2
* Output	18.8 kW (25.5 HP)
Cylinders / Displacement	2 / 1248 cm ³
Speed	3000 rpm
Fuel consumption (welding 60%)	3.2 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	26 l
Running time (welding 60%)	8 h
IP protection degree	IP 23
* Dimensions LxIxD (mm)	1455x840x880
* Dry weight	465 kg
** Measured acoustic power L _{WA} (pressure L _{pA})	96 dB(A) (71 dB(A) @ 7m)
** Guaranteed acoustic power L _{WA} (pressure L _{pA})	96 dB(A) (71 dB(A) @ 7m)

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

TS 350 YSX BC



D.C. WELDING (Constant Current)

Current range	20A ÷ 350A
Duty cycle	350A 35% - 320A 60% - 270A 100%
Open circuit voltage	75V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	12 kVA / 400V / 17.3 A
Single-phase generation	7 kVA / 230V / 30.4 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Electronic regulation of welding current
- Welds any type of electrode, including cellulosic
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale (HALF/FULL - 50% / 100%)
- A.C. generator, single-phase and three-phase
- ELCB-GFI (Ground Fault Interruptor)
- Aux power also available while welding
- Engine protection EP7
- Emergency stop button
- Bundled base
- Meets EC directives for noise and safety

ENGINE DIESEL, 4-STROKE, DIRECT INJECTION, WATER COOLED

Model	Yanmar 3 TNV 76
* Output	16.5 kW (25.4 HP)
Cylinders / Displacement	3/ 1116 cm ³
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 LxIxD (mm)	1610x720x1110
* Dry weight	530 kg
** Measured acoustic power L _{WA} (pressure L _{pA})	92 LWA (67 dB(A) @ 7m)
** Guaranteed acoustic power L _{WA} (pressure L _{pA})	93 LWA (68 dB(A) @ 7m)

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

PROFESSIONAL



WELDER/GENERATOR
SILENCED/SUPERSILENCED
WATER COOLED - 1500 RPM

TS 400 PS BC



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 400A
Duty cycle	400A 60% - 350A 100%
Open circuit voltage	70V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	16 kVA / 400V / 23.1 A
Single-phase generation	12 kVA / 230V / 52.2 A
Single-phase generation	5 kVA / 48V / 104 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Electronic regulation of welding current
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale (20A ÷ 200A / 20A ÷ 400A)
- Arc Gouging dedicated socket
- A.C. generator also available while welding
- Aux power also available while welding
- ELCB-GFI (Ground Fault Interruptor)
- Engine protection ES
- Emergency stop button
- Meets EC directives for noise and safety

DIESEL, 4-STROKE, ASPIRATED, INDIRECT INJECTION, WATER COOLED

Model	Perkins 404A-22G1
* Output	20.3 kW (27.6 HP)
Cylinders / Displacement	4 / 2216 cm ³
Speed	1500 rpm
Fuel consumption (welding 60%)	3.8 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	60 l
Running time (welding 60%)	16 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	1720x980x1110
* Dry weight	780 kg
** Measured acoustic power LwA (pressure LpA)	91 LWA (66 dB(A) @ 7m)
** Guaranteed acoustic power LwA (pressure LpA)	92 LWA (67 dB(A) @ 7m)

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

TS 500 PS BC 60HZ



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 500A
Duty cycle	500 A-35%; 450 A-60%; 400A-100%
Open circuit voltage	70V

A.C. GENERATION - 60HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	16 kVA / 400V / 23.1 A
Single-phase generation	12 kVA / 230V / 52.2 A
Single-phase generation	6 kVA / 110V / 54.4 A
Insulation class	H

WELDER/GENERATOR
SILENCED/SUPERSILENCED
WATER COOLED - 1500 RPM

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Electronic regulation of welding current
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale (20A-200A / 20A-500A)
- A.C. generator, single-phase and three-phase
- Arc Gouging dedicated socket also available while welding
- ELCB-GFI (Ground Fault Interruptor)
- Engine protection ES
- Emergency stop button
- Meets EC directives

MOTORE DIESEL, 4-STROKE, ASPIRATED, INDIRECT INJECTION, WATER COOLED

Model	Perkins 404D-22G
* Output	22.6 kW (30.7 HP)
Displacement / Cylinders	4 / 2216 cm ³
Speed	1800 rpm
Fuel consumption (welding 60%)	4.2 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	60 l
Running time (welding 60%)	14.5 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	1720 x 980 x 1110 mm
* Dry weight	780 Kg
** Acoustic power LwA (pressure LpA)	94 LWA(A) (69 LWA(A) @ 7m)

* Dimensions and weight without trolley/trailer. ** For fixed installation only.

PROFESSIONAL



WELDER/GENERATOR
SILENCED/SUPERSILENCED
WATER COOLED - 1500 RPM

TS 600 PS BC



D.C. WELDING (Constant Current)

Current range, continuous	20A ÷ 600A
Duty cycle	600 A 35% - 550 A 60% - 500 A 100%
Open circuit voltage	75V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	40 kVA / 400V / 57.7 A
Single-phase generation	15 kVA / 230V / 65.2 A
Single-phase generation	8 kVA / 110V / 72.7 A
Insulation class	H

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- Electronic regulation of welding current
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale (20A ÷ 200A / 20A ÷ 600A)
- Arc Gouging dedicated socket
- A.C. generator also available while welding
- Aux power also available while welding
- ELCB-GFI (Ground Fault Interruptor)
- Engine protection EP7
- Emergency stop button
- Meets EC directives for noise and safety

ENGINE DIESEL, 4-STROKE, TURBOCHARGED, DIRECT INJECTION, WATER COOLED

Model	Perkins 1103A - 33TG1
* Output	45.6 kW (62 HP)
Cylinders / Displacement	3 / 3300 cm ³
Speed	1500 rpm
Fuel consumption (welding 60%)	6 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	65 l
Running time (welding 60%)	10.5 h
IP protection degree	IP 23
* Dimensions LxHxh (mm)	2030x870x1130
* Dry weight	1025 kg
** Measured acoustic power L _{WA} (pressure L _{pA})	96 dB(A) (71 dB(A) @ 7m)
** Guaranteed acoustic power L _{WA} (pressure L _{pA})	97 dB(A) (72 dB(A) @ 7m)

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

TS 2X400 PSX BC



D.C. WELDING (Constant Current) SMAW (STICK)/ GTAW (TIG) CC (Constant Current)

Current range, continuous	20A ÷ 400A (2X)
Duty cycle	2X400A 35% - 2X360 A 60% - 2X330 A 100%
Open circuit voltage	68 V

A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Three-phase generation	40 kVA / 400V / 57.8 A
Single-phase generation	20 kVA / 230V / 87 A
Insulation class	H

WELDER/GENERATOR
SILENCED/SUPERSILENCED
WATER COOLED - 1500 RPM

FEATURES

- Arc welding source in D.C. welding
- Two independent welding positions to 400A
- Electronic regulation of welding current
- Special BC (Base Current) circuit for vertical-down pipe welding
- Double welding scale (HALF/FULL - 50% / 100%)
- Digital Ammeter/voltmeter welding
- Aux power also available while welding
- Engine protection EP7
- Emergency stop button
- Meets EC directives for noise and safety
- Emergency stop button
- Remote control (optional)
- Meets EC directives for noise and security

ENGINE DIESEL, 4-STROKE, TURBOCHARGED, DIRECT INJECTION, WATER COOLED

Model	Perkins 1103A - 33TG1
* Output	45.6 kW (62 HP)
Cylinders / Displacement	3 / 3300 cm ³
Speed	1500 rpm
Fuel consumption (welding 60%)	6.7 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	102 l
Running time (welding 60%)	15 h
IP protection degree	IP 44
* Dimensions LxHxh (mm)	2490x1030x1480
* Dry weight	1300 kg
** Measured acoustic power L _{WA} (pressure L _{pA})	89 dB(A) (64 dB(A) @ 7m)
** Guaranteed acoustic power L _{WA} (pressure L _{pA})	90 dB(A) (65 dB(A) @ 7m)

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



THE RANGE

WELDERS DSP



✓ Double welding range (HALF/FULL - 50% / 100%)

✓ A.C. generator, single-phase and three-phase

✓ Bunded Base

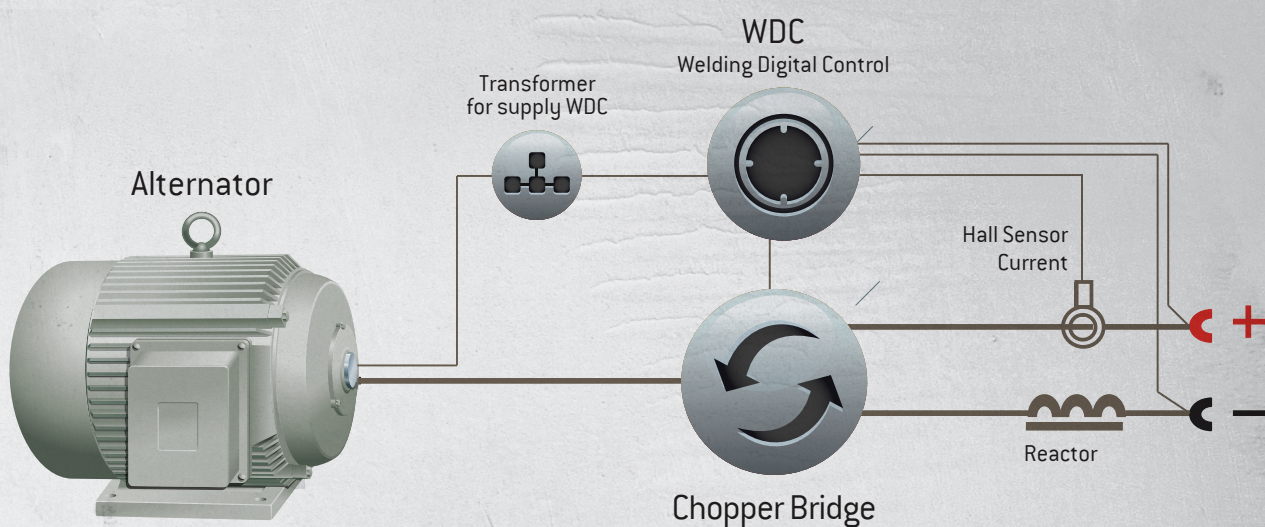
✓ Arc multi-process welder:

- 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)

DIGITAL TECHNOLOGY IN THE SERVICE OF INDUSTRY

The acronym DSP, which is referred to this line of MOSA welders, stands for "Digital Signal Processor", and identifies the fact that the regulation of the welding parameters is performed by means of a digital technique. More precisely, in the DSP controller reside the programs which perform the regulation of the different welding processes supported. The implementation of the control is accomplished by a power converter of the "Chopper" type (Chopper System), which operates at high frequency (20 kHz). The high frequency conversion allows to obtain superior welding performances in comparison with more conventional techniques at low frequency.

DSP TECHNOLOGY



INSTANTANEOUS WELDING CURRENT AND VOLTAGE ADJUSTMENT



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).



Welding DSP Voltmeter/Ammeter
& VRD indicator light

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, can 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



C.C. WELDING (Constant Current)	SMAW (STICK)/ GTAW (TIG) CC (Constant Current)	GMAW (MIG)/ FCAW (FLUX CORED) CV (Constant Voltage)
Current range	10A ÷ 400A	-
Voltage range	-	16V ÷ 40V
Duty cycle	400A 35% - 350A 60% - 300A 100%	350A 60% - 300A 100%
Open circuit voltage	65V	-
A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS		
Three-phase generation	12 KVA / 400V / 17.3 A	
Single-phase generation	7 KVA / 230V / 30.4 A	
Single-phase generation	5 KVA / 48V / 104 A	
Insulation class	H	

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 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
- Bundled base
- Meets EC directives for noise and safety

ENGINE DIESEL, 4-STROKE, DIRECT INJECTION, WATER COOLED

Model	Yanmar 3TNV76
* Output	16.5 kW (22.4 HP)
Cylinders / Displacement	3 / 1116 cm ³
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 LxHx (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

DSP 500 PS



C.C. WELDING (Constant Current)	SMAW (STICK)/ GTAW (TIG) CC (Constant Current)	GMAW (MIG)/ FCAW (FLUX CORED) CV (Constant Voltage)
Current range	10A ÷ 500A	-
Current range	-	16V ÷ 40V
Duty cycle	500A 35% - 450A 60% - 400A 100%	450A 60% - 400A 100%
Open circuit voltage	62V	-
A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS		
Three-phase generation	16 KVA / 400V / 23.1 A	
Single-phase generation	12 KVA / 230V / 52.2 A	
Single-phase generation	5 KVA / 48V / 104 A	
Insulation class	H	

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 scale (HALF/FULL - 50% / 100%)
- Digital Ammeter/voltmeter welding
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- PERKINS diesel engine, water cooling, 1500 rpm
- Engine protection EP7
- Emergency stop button
- Meets EC directives for noise and safety

DIESEL, 4-STROKE, ASPIRATED, INDIRECT INJECTION, WATER COOLED

Model	Perkins 404D-22G
* Output	20.3 kW (27.6 HP)
Cylinders / Displacement	4 / 2216 cm ³
Speed	1500 rpm
Fuel consumption (welding 60%)	3.8 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	60 l
Running time (welding 60%)	16 h
IP protection degree	IP 23
* Dimensions LxHx (mm)	1720x980x1110
* Dry weight	750 kg
** Measured acoustic power LwA (pressure LpA)	91 LWA (66 dB(A) @ 7m)
** Guaranteed acoustic power LwA (pressure LpA)	92 LWA (67 dB(A) @ 7m)

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



DSP 600 PS



C.C. WELDING (Constant Current)	SMAW (STICK)/ GTAW (TIG) CC (Constant Current)	GMAW (MIG)/ FCAW (FLUX CORED) CV (Constant Voltage)
Current range	10A ÷ 600A	-
Current range	-	16V ÷ 40V
Duty cycle	600A 35% - 550A 60% - 500A 100%	550A 60% - 500A 100%
Open circuit voltage	60V	-
A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS		
Three-phase generation	30 KVA / 400V / 43.3 A	
Single-phase generation	15 KVA / 230V / 65.2 A	
Single-phase generation	5 KVA / 48V / 104 A	
Insulation class	H	

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 scale (HALF/FULL - 50% / 100%)
- Digital Ammeter/voltmeter welding
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- PERKINS diesel engine, water cooling, 1500 rpm
- Engine protection EP7
- Emergency stop button
- Meets EC directives for noise and safety

ENGINE DIESEL, 4-STROKE ASPIRATED, DIRECT INJECTION, WATER COOLED

Model	Perkins 1103A - 33G1
* Output	30.4 kW (41.3 HP)
Cylinders / Displacement	3 / 3300 cm ³
Speed	1500 rpm
Fuel consumption (welding 60%)	5 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	65 l
Running time (welding 60%)	13 h
IP protection degree	IP 23
* Dimensions LxHxW (mm)	2030x870x1130
* Dry weight	1000 kg
** Measured acoustic power L _{WA} (pressure L _{pA})	94 dB(A) (69 dB(A) @ 7 m)
** Guaranteed acoustic power L _{WA} (pressure L _{pA})	95 dB(A) (70 dB(A) @ 7 m)

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

DSP 2X400 PS



C.C. WELDING (Constant Current)	SMAW (STICK)/ GTAW (TIG) CC (Constant Current)	GMAW (MIG)/ FCAW (FLUX CORED) CV (Constant Voltage)
Current range	10A ÷ 400A	-
Current range	-	16V ÷ 36V
Duty cycle	2X400A 35% - 2X360A 60%, 2X330A 100%	2X360A 60% - 2X330A 100%
Open circuit voltage	68 V	-
A.C. GENERATION - 50HZ THREE-PHASE ASYNCHRONOUS ALTERNATOR, SELF-REGULATED, SELF-EXCITED, BRUSHLESS		
Three-phase generation	40 KVA / 400V / 57.8 A	
Single-phase generation	20 KVA / 230V / 87 A	
Single-phase generation	5 KVA / 48V / 104 A	
Insulation class	H	

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)
- Two independent welding positions to 400A
- High frequency digital control of welding current and voltage
- Specific welding programs for cellulose electrodes
- Double welding scale (HALF/FULL - 50% / 100%)
- Ammeter/voltmeter welding
- Aux power also available while welding
- PERKINS diesel engine, water cooled 1500 rpm
- Engine protection EP5
- Meets EC directives for noise and safety

ENGINE DIESEL, 4-STROKE, TURBOCHARGED, DIRECT INJECTION, WATER COOLED

Model	Perkins 1103A - 33TG1
* Output	45.6 kW (62 HP)
Cylinders / Displacement	3 / 3300 cm ³
Speed	1500 rpm
Fuel consumption (welding 60%)	6.7 l/h

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

GENERAL SPECIFICATIONS

Tank capacity	102 l
Running time (welding 60%)	15 h
IP protection degree	IP 44
* Dimensions LxHxW (mm)	2490x1030x1480
* Dry weight	1350 kg
** Measured acoustic power L _{WA} (pressure L _{pA})	89 dB(A) (64 dB(A) @ 7 m)
** Guaranteed acoustic power L _{WA} (pressure L _{pA})	90 dB(A) (65 dB(A) @ 7 m)

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

THE SERVICES



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.

MOSA

