

**GENERATING SETS
ENGINE DRIVEN WELDERS**

**New
edition**

CS **Gen Set**
A THERMADYNE. Company



THE COMPANY

Gen Set S.p.a. was founded in 1974, with the objective of designing and manufacturing portable generators. Since then the Company has primelly developed its production capacity, broadened its range of products and increased its market share in Italy and abroad.

In 1997 Gen Set has been acquired by **Thermadyne Company**.

The Company's headquarters are located in Villanova d'Ardenghi (Pavia), about 30 km south of Milan, close to the Milan-Genoa motorway. On a total area of **35,000 m²**, more than two thirds are occupied by the factory and office buildings.

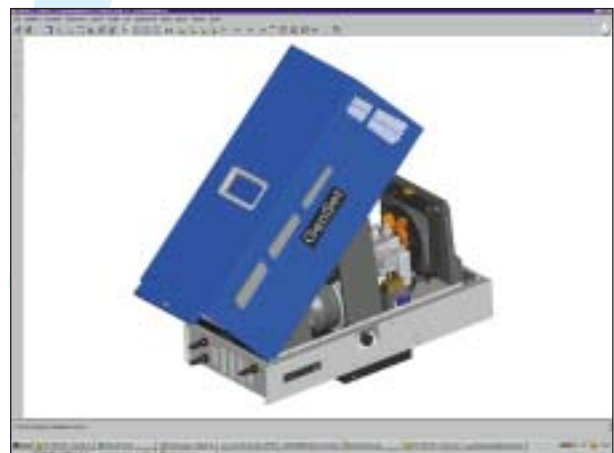
All phases of product development are done internally: concept, design, implementation, manufacturing.

The **products range** composes of:

- **DC engine driven welders from 170 A to 1000 A**, special versions available with two, three or four independent welding units
- **AC power generators from 1 kVA to 550 kVA** for manual or auto start operation.

INNOVATION

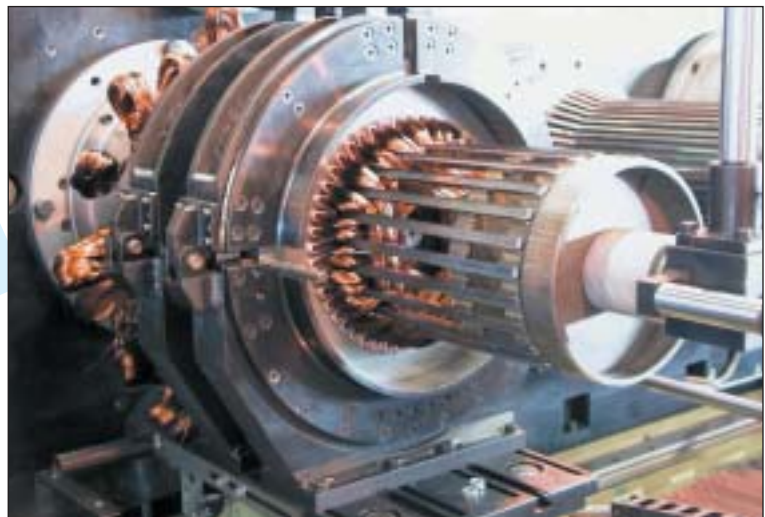
Since the very beginning of our activity, we have been focusing on innovation. This is demonstrated in concrete terms by the amount of financial and human resources involved in the development of new products and new technical solutions. Both the various international **patents** held and the use ot the latest software for computer-assisted design and engineering (**CAD/CAE - 3D**), are proof of our company trend.





QUALITY

In line with his policy of constant innovation Gen Set has achieved, in the month of November 2002, the Quality System Certification according to the latest **BS EN ISO 9001:2000** standards whose guidelines involve every single Company action: from design to manufacturing, from purchasing to sales.

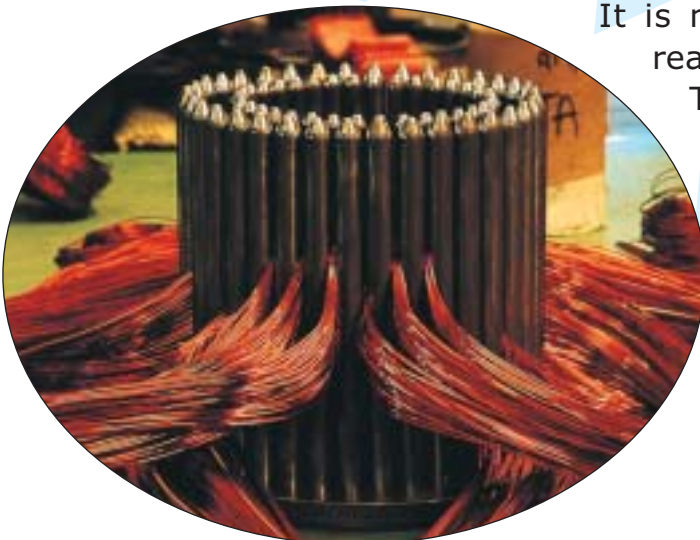


CUSTOMER ORIENTED POLICY

It is not just a slogan, this policy is a reality at all levels of our organization.

This focus on customer is proved by:

- the wide range of products;
- the numerous optionals and special configurations available for each model;
- the variety of special solutions engineered.





DESIGN AND MANUFACTURING

The Company develops the complete design of its products, by studying their electrical part, their electronics, their thermodynamics and sound-proofing.

A final test is carried out on every single model.

All **asynchronous alternators** mounted on the entire engine driven welders range and on the power generators from 5 kVA to 18 kVA, are built on a modern semi-automated production-line.



Structural components are produced on the steel-work department, equipped with a state-of-the-art sheet metal working equipment, including automatic punch presses, CNCs, laser sheet-cutting machines and automatic welding carousels.

An environmentally friendly dry powder painting process is used. Each metal part is chemically treated with a two-stage phosphatizing process, which removes all impurities ensuring the adherence of the polyurethane powder paint. The final result is a homogeneous finish with high mechanical resistance to corrosion and scratches.



MARKET

Our products are distributed in Italy through over **1,200 dealers**. In the past twenty-five years we have increased our international and domestic market shares: Gen Set products have been sold in over **60 Countries**.

Technology, competence, experience, quality: these are the "ingredients" that make Gen Set Engine Driven Welders and Generating Sets highly professional and reliable products.

CUSTOMER SERVICE

At our main offices a fully dedicated team of technicians is available to respond to customer's questions. These technicians ensure that a machine appropriate to customer's application needs is chosen, and they are also to provide **after sale service**.

In addition there are authorized technical assistance workshops located throughout Italy.

In all other countries, where we operate, service is provided by local organizations, whose technicians are regularly updated and trained.

Gen Set offers **one year warranty** on all of its products.



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SOME HINTS ABOUT NOISE

Noise Level (L_{WA})

Represents the acoustic energy emission from a source in the unit time, **independently from the distance**. The L_{WA} is the measure of the machine noise level as per European Regulations. It is measured in dB(A).

Acoustic Pressure (L_p)

Represents the pressure caused by acoustic waves emission measured at a certain distance from the source. **Its value changes according to the different distances from the source**. It is measured in dB(A).

Note

Sometimes there is a certain misunderstanding between L_{WA} and L_p . The following table shows the mathematical relation between L_{WA} and L_p values at different distances from the source:

L_p at 1 metre	=	L_{WA}	-	8 dB
L_p at 4 metres	=	L_{WA}	-	20 dB
L_p at 7 metres	=	L_{WA}	-	25 dB
L_p at 10 metres	=	L_{WA}	-	28 dB
L_p at 16 metres	=	L_{WA}	-	32 dB

i.e.: machine with $L_{WA} = 90$ dB:

L_p at 1 metre	=	90 dB - 8 dB	=	82 dB
L_p at 4 metres	=	90 dB - 20 dB	=	70 dB
L_p at 7 metres	=	90 dB - 25 dB	=	65 dB
L_p at 10 metres	=	90 dB - 28 dB	=	62 dB
L_p at 16 metres	=	90 dB - 32 dB	=	58 dB

The **new EC Regulations**, according to the **2000/14/EC Directive**, provide the following homologated Noise Levels:

ENGINE DRIVEN WELDERS

Maximum Welding Output	EC Allowed Noise Level (L_{WA})
• up to 400 A	99
• above 400 A	98

GENERATING SETS

Maximum output	EC Allowed Noise Level (L_{WA})
• up to 2 kW	97
• from 2 to 10 kW	99
• from 10 to 30 kW	98
• above 50 kW	99







ENGINE DRIVEN WELDERS (MPM Range)

**DC engine driven welders
from 170 A to 1000 A**

**Special versions available with two, three
or four independent welding units**

ENGINE DRIVEN WELDERS (MPM RANGE)

The Gen Set's Engine Driven Welders range (MPM) has been designed to meet requirements of customers needing highly professional welding equipment.

This result has been achieved through the unique features of the **Gen Set's asynchronous brushless alternator: versatility, reliability and efficiency.**

Versatility:

- **stepless current regulation**, also remotely controlled;
- **"Down-Hill" vertical** welding facility;
- **MIG/MAG** welding;
- **Lift TIG** welding facility;
- **Carbon Arc Gouging**;
- **Auxiliary AC power** available also while welding.



Reliability:

No alternator brushes or rotating diodes; only a single bearing "squirrel cage" rotor: **no maintenance required.**

Efficiency:

The MPM asynchronous brushless alternator is **more efficient** than conventional synchronous alternators, which results in:

- **more** welding capacity;
- **better quality current** with a smooth waveform and a very low harmonic distortion: suitable for powering sensitive equipments
- **more** auxiliary power available in single-phase
- **lower** fuel consumption;
- **longer** engine life.

Whether you need to weld a pipeline in Siberia or in Saudi Arabia, operate in a strict sound regulation area, carry out industrial maintenance jobs or steel structures, we can provide you the right welding equipment in terms of:

- **several makes of air and water cooled engines**;
- **highly effective soundproofing**;
- **different welding processes**;
- **number of available options.**





Petrol Engine Driven Welder/Generator • Delivers 170 A of AC weld output
Single phase auxiliary power available

Gen Set Features

Processes: *STICK*

Low oil level cut out device
 1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
 Voltmeter

Gen Set Options

(available as factory options)

Versions with different voltages
 60 Hz version

Gen Set Accessories

Trolley: two-wheels and handles
 Welding cables Ø 25 mm² (5+3 m) with accessories

Noise Level

LWA 95

(75 dB(A) at 4m)

AC WELDING

Duty Cycle @ 35%	170 A - 25 V
Duty Cycle @ 60%	150 A - 25 V
Output Range	40 A ÷ 170 A
Open Circuit Voltage	60 V
Max welding rod	3,25 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Single Phase Power	4 kVA - 230 V

PETROL ENGINE - 3000 RPM

Type	Honda GX 270 OHV - 1 cyl. - 9 HP - 270 cm ³
Fuel	petrol
Cooling system	air
Starting system	manual recoil
Fuel tank capacity	6,5 l
Specific consumption	313 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	720 x 480 x 515 mm
Net Weight	85 kg



Petrol Engine Driven Welder/Generator • Delivers 170 A of DC weld output
Three phase and Single phase auxiliary power available

Gen Set Features

Processes: STICK

Low oil level cut out device
 1 x 400 V - 50 Hz three phase outlet
 1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
 Earth Leakage Circuit Breaker (ELCB)
 Voltmeter

Gen Set Options

(available as factory options)

Versions with different voltages
 60 Hz version

Gen Set Accessories

Trolley: two-wheels and handles
 Parallel Welding Box with ammeter and voltmeter (P-BOX)
 Welding cables Ø 25 mm² (5+3 m) with accessories

Noise Level

LWA 95 (75 dB(A) at 4m)

DC WELDING

Duty Cycle @ 35%	170 A - 27 V
Duty Cycle @ 60%	140 A - 26 V
Output Range	40 A ÷ 170 A
Open Circuit Voltage	90 V
Max welding rod	4 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Three Phase Power	4,5 kVA - 400 V
Single Phase Power	3 kVA - 230 V

PETROL ENGINE - 3000 RPM

Type	Honda GX 270 OHV - 1 cyl. - 9 HP - 270 cm ³
Fuel	petrol
Cooling system	air
Starting system	manual recoil
Fuel tank capacity	6,5 l
Specific consumption	313 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	720 x 480 x 515 mm
Net Weight	94 kg

**Stepless
Current Control**



Petrol Engine Driven Welder/Generator • Delivers 180 A of DC weld output
Three phase and Single phase auxiliary power available

Gen Set Features

Processes: STICK - SCRATCH TIG

Low oil level cut out device
 1 x 400 V - 50 Hz three phase outlet
 1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
 Earth Leakage Circuit Breaker (ELCB)
 Voltmeter
 ARC FORCE CONTROL switch
 Remote control socket

Gen Set Options

(available as factory options)

Versions with different voltages
 60 Hz version

Gen Set Accessories

Trolley: two-wheels and handles
 Remote control unit complete with 20m cable and plug
 Parallel Welding Box with ammeter and voltmeter (P-BOX)
 Welding cables Ø 25 mm² (5+3 m) with accessories

Noise Level

LWA 96 (76 dB(A) at 4m)

DC WELDING

Duty Cycle @ 35%	180 A - 27 V
Duty Cycle @ 60%	150 A - 26 V
Stepless current adjustment	30 A ÷ 180 A
Open Circuit Voltage	70 V
Max welding rod	4 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Three Phase Power	4,5 kVA - 400 V
Single Phase Power	3 kVA - 230 V

PETROL ENGINE - 3000 RPM

Type	Honda GX 340 OHV - 1 cyl. - 11 HP - 340 cm ³
Fuel	petrol
Cooling system	air
Starting system	manual recoil
Fuel tank capacity	6,5 l
Specific consumption	313 g/kWh

DIMENSIONS AND WEIGHT

L x W x H	720 x 480 x 515 mm
Net Weight	96 kg



Diesel Engine Driven Welder/Generator • Delivers 170 A of DC weld output
Three phase and Single phase auxiliary power available

Gen Set Features

Processes: STICK

Low oil pressure and battery charger warning lights
 Built-in battery
 1 x 400 V - 50 Hz three phase outlet
 1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
 1 x 48 V - 50 Hz single outlet (*low safety voltage*)
 Earth Leakage Circuit Breaker (ELCB)
 Voltmeter

Gen Set Accessories

Trolley: two-wheels and handles
 Parallel Welding Box with ammeter and voltmeter (P-BOX)
 Welding cables Ø 25 mm² (5+3 m) with accessories

Gen Set Options (available as factory options)

Versions with different voltages
 Hourmeter
 60 Hz version

Noise Level

LWA 99 (79 dB(A) at 4m)

DC WELDING	
Duty Cycle @ 35%	170 A - 27 V
Duty Cycle @ 60%	140 A - 26 V
Output Range	40 A ÷ 170 A
Open Circuit Voltage	90 V
Max welding rod	4 mm

AC GENERATOR - 50 Hz	
Type	Gen Set asynchronous - brushless
Three Phase Power	5 kVA - 400 V
Single Phase Power	4 kVA - 230 V
Single Phase Power	1,5 kVA - 48 V

DIESEL ENGINE - 3000 RPM	
Type	Yanmar L100 AE - 1 cyl. - 10 HP - 406 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric (<i>and manual</i>)
Fuel tank capacity	5,5 l
Specific consumption	260 g/kWh

DIMENSIONS AND WEIGHT	
L x W x H	920 x 460 x 570 mm
Net Weight	148 kg



Diesel Engine Driven Welder/Generator • Delivers 170 A of DC weld output
Three phase and Single phase auxiliary power available

Gen Set Features

Processes: STICK

Low oil pressure and battery charger warning lights
 Low oil level cut out device
 Built-in battery
 1 x 400 V - 50 Hz three phase outlet
 1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
 1 x 48 V - 50 Hz single outlet (*safety low voltage*)
 Earth Leakage Circuit Breaker (ELCB)
 Voltmeter

Gen Set Accessories

Trolley: two-wheels and handles
 Parallel Welding Box with ammeter and voltmeter (P-BOX)
 Welding cables Ø 25 mm² (5+3 m) with accessories

Gen Set Options (available as factory options)

Versions with different voltages
 Hourmeter
 60 Hz version

Noise Level

LWA 99 (79 dB(A) at 4m)

DC WELDING

Duty Cycle @ 35%	170 A - 27 V
Duty Cycle @ 60%	140 A - 26 V
Output Range	40 A ÷ 170 A
Open Circuit Voltage	90 V
Max welding rod	4 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	5 kVA - 400 V
Single Phase Power	4 kVA - 230 V
Single Phase Power	1,5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Lombardini 15LD 400 - 1 cyl. - 10 HP - 401 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	5 l
Specific consumption	220 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	920 x 460 x 570 mm
Net Weight	143 kg

**Stepless
Current Control**



New

**Diesel Engine Driven Welder/Generator • Delivers 180 A of DC weld output
Three phase and Single phase auxiliary power available • Super Silenced model**

Gen Set Features

Processes: *STICK / SCRATCH TIG*

DAS, auto engine protection shutdown system with warning lights in case of:

- low oil pressure
- battery charger failure
- low fuel level

Built-in battery

Hourmeter

1 x 400 V - 50 Hz three phase outlet

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Generator voltage warning light

Remote control socket

ARC FORCE CONTROL switch

Side lifting eyes

Gen Set Options

(available as factory options)

Versions with different voltages

60 Hz version

Gen Set Accessories

Trolley: two-wheels and handles

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 25 mm² (5+3 m) with accessories

Noise Level

LWA 96

(76 dB(A) at 4m)

DC WELDING

Duty Cycle @ 35%	180 A - 27 V
Duty Cycle @ 60%	150 A - 26 V
Stepless current adjustment	30 A ÷ 180 A
Open Circuit Voltage	65 V
Max welding rod	4 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	5 kVA - 400 V
Single Phase Power	4 kVA - 230 V
Single Phase Power	1,5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Yanmar L100 AE - 1 cyl. - 10 HP - 406 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	21 l
Specific consumption	260 g/kWh

DIMENSIONS AND WEIGHT

L x W x H	1070 x 570 x 700 mm
Net Weight	208 kg

**Stepless
Current Control**



New

**Diesel Engine Driven Welder/Generator • Delivers 180 A of DC weld output
Three phase and Single phase auxiliary power available • Super Silenced model**

Gen Set Features

Processes: *STICK / SCRATCH TIG*

Low oil pressure, low fuel level and battery charger warning lights
Low oil level cut out device
Built-in battery
Hourmeter
1 x 400 V - 50 Hz three phase outlet
1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)
Earth Leakage Circuit Breaker (ELCB)
Generator voltage warning light
Remote control socket
ARC FORCE CONTROL switch
Side lifting eyes

Gen Set Options

(available as factory options)

Versions with different voltages
60 Hz version

Noise Level

LWA 94 (74 dB(A) at 4m)

Gen Set Accessories

Trolley: two-wheels and handles
Remote control unit complete with 20m cable and plug
Parallel Welding Box with ammeter and voltmeter (P-BOX)
Welding cables Ø 25 mm² (5+3 m) with accessories

DC WELDING

Duty Cycle @ 35%	180 A - 27 V
Duty Cycle @ 60%	150 A - 26 V
Stepless current adjustment	30 A ÷ 180 A
Open Circuit Voltage	65 V
Max welding rod	4 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	5 kVA - 400 V
Single Phase Power	4 kVA - 230 V
Single Phase Power	1,5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Lombardini 15LD 400 - 1 cyl. - 10 HP - 401 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	21 l
Specific consumption	220 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	1070 x 570 x 700 mm
Net Weight	203 kg



Petrol Engine Driven Welder/Generator • Delivers 190 A of DC weld output
Three phase and Single phase auxiliary power available

Gen Set Features

Processes: *STICK*

Low oil level cut out device
 1 x 400 V - 50 Hz three phase outlet
 1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
 Earth Leakage Circuit Breaker (ELCB)
 Voltmeter

Gen Set Options

(available as factory options)

Booster version:

DC - 400 A engine electric starter adjustable from 10 A to 400 A, complete with ammeter
 Versions with different voltages
 60 Hz version

Noise Level

LWA 96 (76 dB(A) at 4m)

Gen Set Accessories

Trolley: two-wheels and handles
 Parallel Welding Box with ammeter and voltmeter (P-BOX)
 Welding cables Ø 25 mm² (5+3 m) with accessories

DC WELDING

Duty Cycle @ 35%	190 A - 28 V
Duty Cycle @ 60%	170 A - 27 V
Output Range	40 A ÷ 190 A
Open Circuit Voltage	90 V
Max welding rod	4 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Three Phase Power	5 kVA - 400 V
Single Phase Power	4 kVA - 230 V

PETROL ENGINE - 3000 RPM

Type	Honda GX 340 OHV - 1 cyl. - 11 HP - 340 cm ³
Fuel	petrol
Cooling system	air
Starting system	manual recoil
Fuel tank capacity	6,5 l
Specific consumption	313 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	720 x 480 x 515 mm
Net Weight	96 kg

Stepless
Current Control

New



**Diesel Engine Driven Welder/Generator • Delivers 225 A of DC weld output
Three phase and Single phase auxiliary power available • Super Silenced model**

Gen Set Features

Processes: STICK / SCRATCH TIG

DAS, auto engine protection shutdown system with warning lights in case of:

- low oil pressure
- battery charger failure
- low fuel level

Built-in battery

Hourmeter

1 x 400 V - 50 Hz three phase outlet

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

1 x 48 V - 50 Hz single phase outlet (safety low voltage)

Earth Leakage Circuit Breaker (ELCB)

Generator voltage warning light

Remote control socket

ARC FORCE CONTROL switch

Side lifting eyes

Gen Set Options

(available as factory options)

Versions with different voltages

Noise Level

LWA 96

(76 dB(A) at 4m)

Gen Set Accessories

Trolley: two-wheels and handles

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 35 mm² (5+3 m) with accessories

DC WELDING

Duty Cycle @ 35%	225 A - 29 V
Duty Cycle @ 60%	175 A - 27 V
Stepless current adjustment	30 A ÷ 225 A
Open Circuit Voltage	65 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	5 kVA - 400 V
Single Phase Power	4 kVA - 230 V
Single Phase Power	1,5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Ruggerini ECO MD190 - 2 cyl. - 13 HP - 851 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	21 l
Specific consumption	260 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	1240 x 570 x 700 mm
Net Weight	270 kg



Diesel Engine Driven Welder/Generator • Delivers 260 A of DC weld output
Three phase and Single phase auxiliary power available

Gen Set Features

Processes: *STICK / SCRATCH TIG*

Low oil pressure and battery charger warning lights
 Built-in battery
 Hourmeter
 1 x 400 V - 50 Hz three phase outlet
 1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
 1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)
 Earth Leakage Circuit Breaker (ELCB)
 Voltmeter
 Remote control socket
 ARC FORCE CONTROL switch
 Central lifting eye

Gen Set Options

(available as factory options)

Versions with different voltages
 LIFT START TIG facility

Noise Level

LWA 99 (79 dB(A) at 4m)

Gen Set Accessories

Trolley: two-wheels and handles
 Remote control unit complete with 20m cable and plug
 Parallel Welding Box with ammeter and voltmeter (P-BOX)
 Welding cables Ø 35 mm² (5+3 m) with accessories
 Reverse polarity switch kit

DC WELDING

Duty Cycle @ 35%	260 A - 30 V
Duty Cycle @ 60%	230 A - 29 V
Stepless current adjustment	30 A ÷ 260 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	7 kVA - 400 V
Single Phase Power	5 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Ruggerini RD 210 - 2 cyl. - 20 HP - 954 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	16 l
Specific consumption	250 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	985 x 470 x 820 mm
Net Weight	280 kg



Petrol Engine Driven Welder/Generator • Delivers 270 A of DC weld output
Three phase and Single phase auxiliary power available

Gen Set Features

Processes: STICK / SCRATCH TIG

- Low fuel level warning light
- Low oil level cut out device
- Automatic idle device when no load is connected
- Built-in battery
- Fuel level gauge
- Hourmeter
- 1 x 400 V - 50 Hz three phase outlet
- 1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
- Earth Leakage Circuit Breaker (ELCB)
- Remote control socket
- ARC FORCE CONTROL switch
- Central lifting eye

Gen Set Options

(available as factory options)

- Versions with different voltages
- LIFT START TIG facility
- CC/CV control for MIG/MAG welding
- 60 Hz version

Noise Level

LWA 98 (78 dB(A) at 4m)

Gen Set Accessories

- Trolley: two-wheels and handles
- Remote control unit complete with 20m cable and plug
- Parallel Welding Box with ammeter and voltmeter (P-BOX)
- Welding cables Ø 35 mm² (5+3 m) with accessories
- Reverse polarity switch kit
- MIG/MAG wire feeder
- Spark arrestor muffler (Honda)

DC WELDING

Duty Cycle @ 35%	270 A - 31 V
Duty Cycle @ 60%	250 A - 30 V
Stepless current adjustment	15 A ÷ 270 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Three Phase Power	8 kVA - 400 V
Single Phase Power	6 kVA - 230 V

PETROL ENGINE 3000 RPM

Type	Honda GX 620 K1 - 2 cyl. - 20 HP - 614 cm ³
Fuel	petrol
Cooling system	air
Starting system	electric
Fuel tank capacity	37,5 l
Specific consumption	313 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	1080 x 530 x 710 mm
Net Weight	250 kg



**Diesel Engine Driven Welder/Generator • Delivers 300 A of DC weld output
Three phase and Single phase auxiliary power available • Soundproof model**

Gen Set Features

Processes: *STICK / SCRATCH TIG*

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- low fuel level
- low oil pressure

Automatic idle device when no load is connected

Built-in battery

Hourmeter

Voltmeter

Fuel level gauge

1 x 400 V - 50 Hz three phase outlet

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Remote control socket

ARC FORCE CONTROL switch

Central lifting eye

Two-wheels site tow undercarriage (GRT2W)

Noise Level

LWA 99

(79 dB(A) at 4m)

Gen Set Options

(available as factory options)

Versions with different voltages

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Certified spark arrestor muffler

Gen Set Accessories

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 35 mm² (5+3 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

Trolley: two-wheels and handles

Skid base for use directly on the ground

DC WELDING

Duty Cycle @ 35%	300 A - 32 V
Duty Cycle @ 60%	250 A - 30 V
Stepless current adjustment	30 A ÷ 300 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	8 kVA - 400 V
Single Phase Power	7 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Ruggerini RD210 - 2 cyl. - 20 HP - 954 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	38 l
Specific consumption	250 g/KWh

DIMENSIONS AND WEIGHT

L x W x H (trailer not included)	1300 x 620 x 810 mm
Net Weight	325 kg



**Diesel Engine Driven Welder/Generator • Delivers 300 A of DC weld output
Three phase and Single phase auxiliary power available • Soundproof model**

Gen Set Features

Processes: *STICK / SCRATCH TIG*

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- low fuel level
- low oil pressure
- high coolant temperature

Automatic idle device when no load is connected

Built-in battery

Hourmeter

Voltmeter.

Fuel level gauge

1 x 400 V - 50 Hz three phase outlet

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

Earth Leakage Circuit Breaker (ELCB)

Remote control socket

ARC FORCE CONTROL switch

Central lifting eye

Noise Level

LWA 99

(79 dB(A) at 4m)

Gen Set Options

(available as factory options)

Versions with different voltages

60 Hz version

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Certified spark arrestor muffler

Gen Set Accessories

Two-wheels site tow undercarriage (GRT2W)

Trolley: two-wheels and handles

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 35 mm² (5+3 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

DC WELDING

Duty Cycle @ 35%	300 A - 32 V
Duty Cycle @ 60%	270 A - 31 V
Stepless current adjustment	30 A ÷ 300 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Three Phase Power	8 kVA - 400 V
Single Phase Power	7 kVA - 230 V

DIESEL ENGINE - 3000 RPM

Type	Kubota D722 - 3 cyl. - 17 HP - 719 cm ³
Fuel	diesel
Cooling system	water
Starting system	electric
Fuel tank capacity	37,5 l.
Specific consumption	265 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	1330 x 530 x 870 mm
Net Weight	345 kg



**Diesel Engine Driven Welder/Generator • Delivers 300 A of DC weld output
Three phase and Single phase auxiliary power available • Super Silenced model**

Gen Set Features

Processes: *STICK / SCRATCH TIG*

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- high coolant temperature
- low fuel level
- low oil pressure

Automatic idle device when no load is connected

Built-in battery

Hourmeter - Voltmeter - Fuel level gauge

1 x 400 V - 50 Hz three phase outlet

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Remote control socket

ARC FORCE CONTROL switch

Central lifting eye

Gen Set Options

(available as factory options)

Versions with different voltages

60 Hz version

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Certified spark arrestor muffler

Gen Set Accessories

Trolley: two-wheels and handles

Two-wheels site tow undercarriage (GRT2W)

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 35 mm² (5+3 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

Noise Level

LWA 94

(74 dB(A) at 4m)

DC WELDING

Duty Cycle @ 35%	300 A - 32 V
Duty Cycle @ 60%	270 A - 31 V
Stepless current adjustment	30 A ÷ 300 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	8 kVA - 400 V
Single Phase Power	7 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Kubota D722 - 3 cyl. - 17 HP - 719 cm ³
Fuel	diesel
Cooling system	water
Starting system	electric
Fuel tank capacity	42 l.
Specific consumption	265 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	1385 x 660 x 915 mm
Net Weight	400 kg



New

**Diesel Engine Driven Welder/Generator • Delivers 320 A of DC weld output
Three phase and Single phase auxiliary power available • Soundproof model**

Gen Set Features

Processes: **STICK / SCRATCH TIG**

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- low fuel level
- low oil pressure
- high coolant temperature

Automatic idle device when no load is connected

Built-in battery

Hourmeter - Voltmeter

Fuel level gauge

1 x 400 V - 50 Hz three phase outlet

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Remote control socket

ARC FORCE CONTROL switch

Central lifting eye

Two-wheels site tow undercarriage (GRT2W)

Gen Set Options

(available as factory options)

Versions with different voltages

60 Hz version

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Certified spark arrestor muffler

Gen Set Accessories

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 35 mm² (5+3 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

Noise Level

LWA 96

(68 dB(A) at 10m)

DC WELDING

Duty Cycle @ 35%	320 A - 32 V
Duty Cycle @ 60%	270 A - 30 V
Stepless current adjustment	30 A ÷ 320 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	8 kVA - 400 V
Single Phase Power	7 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Lombardini LDW1003 FOCS - 3 cyl. - 25 HP - 1028 cm ³
Fuel	diesel
Cooling system	water
Starting system	electric
Fuel tank capacity	40 l
Specific consumption	260 g/KWh

DIMENSIONS AND WEIGHT

L x W x H (trailer not included)	1510 x 730 x 860 mm
Net Weight	425 kg



New

**Diesel Engine Driven Welder/Generator • Delivers 400 A of DC weld output
Three phase and Single phase auxiliary power available • Soundproof model**

Gen Set Features

Processes: *STICK / SCRATCH TIG*

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- high coolant temperature
- low fuel level
- low oil pressure

Automatic idle device when no load is connected

Built-in battery

Hourmeter - Voltmeter

Fuel level gauge

1 x 400 V - 50 Hz three phase outlet

2 x 230 V - 50 Hz single phase outlets protected by circuit breakers

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Remote control socket

ARC FORCE CONTROL with changeover switch

basic / cellulosic welding rods

Central lifting eye

Noise Level

LWA 98

(70 dB(A) at 10m)

Gen Set Options

(available as factory options)

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Remote control for Amperage and Arc Force

Certified spark arrestor muffler

Versions with different voltages

60 Hz version

(only available with KUBOTA D1005-E)

Gen Set Accessories

Two-wheels site tow undercarriage (GRT2W)

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 50 mm² (20+15 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

DC WELDING

Duty Cycle @ 35%	370 A - 35 V
Duty Cycle @ 60%	350 A - 34 V
Stepless current adjustment	30 A ÷ 400 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	15 kVA - 400 V
Single Phase Power	10 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Kubota D1105-E - 3 cyl. - 28 HP - 1123 cm ³
Fuel	diesel
Cooling system	water
Starting system	electric
Fuel tank capacity	38 l
Specific consumption	265 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	1590 x 730 x 920 mm
Net Weight	450 kg



**Diesel Engine Driven Welder/Generator • Delivers 400 A of DC weld output
Three phase and Single phase auxiliary power available • Super Silenced model**

Gen Set Features

Processes: STICK / SCRATCH TIG

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure - low fuel level
- low oil pressure - high coolant temperature

Automatic idle device when no load is connected

Built-in battery

Fuel level gauge - Hourmeter - Voltmeter

1 x 400 V - 50 Hz three phase outlet

2 x 230 V - 50 Hz single phase outlets protected by circuit breakers

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Low-High amps switch for a more accurate arc control selection (30A ÷ 200A / 30A ÷ 400A)

Remote control socket

ARC FORCE CONTROL with changeover switch basic / cellulosic welding rods

Bunded tank to avoid polluting leakages on the ground

Central lifting eye

Noise Level

LWA 94

(66 dB(A) at 10m)

Gen Set Options

(available as factory options)

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Remote control for Amperage and Arc Force

Certified spark arrestor muffler

Versions with different voltages

60 Hz version

(only available with KUBOTA D1005-E)

Gen Set Accessories

Two-wheels site tow undercarriage (GRT2W)

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 50 mm² (20+15 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

DC WELDING

Duty Cycle @ 35%	370 A - 35 V
Duty Cycle @ 60%	350 A - 34 V
Stepless current adjustment	30 A ÷ 400 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous - brushless
Three Phase Power	15 kVA - 400 V
Single Phase Power	10 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Kubota D1105-E - 3 cyl. - 28 HP - 1123 cm ³
Fuel	diesel
Cooling system	water
Starting system	electric
Fuel tank capacity	60 l
Specific consumption	265 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	1600 x 840 x 1000 mm
Net Weight	565 kg



New

**Diesel Engine Driven Welder/Generator • Delivers 400 A of DC weld output
Three phase and Single phase auxiliary power available • Soundproof model**

Gen Set Features

Processes: *STICK / SCRATCH TIG*

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- low fuel level
- low oil pressure

Automatic idle device when no load is connected

Built-in battery

Fuel level gauge - Hourmeter - Voltmeter

1 x 400 V - 50 Hz three phase outlet

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Remote control socket

ARC FORCE CONTROL with changeover switch

basic / cellulosic welding rods

Central lifting eye

Two-wheels site tow undercarriage (GRT2W)

Noise Level

LWA 99

(79 dB(A) at 4m)

Gen Set Options

(available as factory options)

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Remote control for Amperage and Arc Force

Certified spark arrestor muffler

Versions with different voltages

60 Hz version

Gen Set Accessories

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 50 mm² (20+15 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

Trolley: two-wheels and handles

DC WELDING

Duty Cycle @ 35%	400 A - 36 V
Duty Cycle @ 60%	350 A - 34 V
Stepless current adjustment	30 A ÷ 400 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Three Phase Power	15 kVA - 400 V
Single Phase Power	10 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Lombardini 9LD625-2 - 2 cyl. - 28,5 HP - 1248 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	38 l
Specific consumption	250 g/KWh

DIMENSIONS AND WEIGHT

L x W x H (trailer not included)	1400 x 630 x 1023 mm
Net Weight	434 kg



**Diesel Engine Driven Welder/Generator • Delivers 400 A of DC weld output
Three phase and Single phase auxiliary power available • Soundproof model**

Gen Set Features

Processes: **STICK / SCRATCH TIG**

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- low fuel level
- low oil pressure

Built-in battery

Emergency stop button

Fuel level gauge - Hourmeter - Voltmeter

1 x 400 V - 50 Hz three phase outlet

2 x 230 V - 50 Hz single phase outlets protected by circuit breakers

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Remote control socket

Low-High amps switch for a more accurate arc control selection (30A ÷ 200A / 30 ÷ 400A)

ARC FORCE CONTROL with changeover switch

basic / cellulosic welding rods

Central lifting eye

Two-wheels site tow undercarriage (GRT2W)

Noise Level

LWA 98

(70 dB(A) at 10m)

Gen Set Options

(available as factory options)

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Remote control for Amperage and Arc Force

Certified spark arrestor muffler

Versions with different voltages

60 Hz version

Gen Set Accessories

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 50 mm² (20+15 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

DC WELDING

Duty Cycle @ 35%	400 A - 36 V
Duty Cycle @ 60%	350 A - 34 V
Stepless current adjustment	30 A ÷ 400 A
Open Circuit Voltage	70 V
Max welding rod	8 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Three Phase Power	16 kVA - 400 V
Single Phase Power	12 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 1500 RPM

Type	VM SUN 2105 - 2 cyl. - 29 HP - 1991 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	48 l
Specific consumption	235 g/KWh

DIMENSIONS AND WEIGHT

L x W x H (trailer not included)	1780 x 860 x 900 mm
Net Weight	720 kg



**Diesel Engine Driven Welder/Generator • Delivers 420 A of DC weld output
Three phase and Single phase auxiliary power available • Soundproof model**

Gen Set Features

Processes: *STICK / SCRATCH TIG*

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- low fuel level
- low oil pressure
- high coolant temperature

Automatic idle device when no load is connected

Built-in battery

Fuel level gauge - Hourmeter - Voltmeter

1 x 400 V - 50 Hz three phase outlet

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

1 x 48 V - 50 Hz single phase outlet (*safety low voltage*)

Earth Leakage Circuit Breaker (ELCB)

Remote control socket

ARC FORCE CONTROL with changeover switch

basic / cellulosic welding rods

Central lifting eye

Two-wheels site tow undercarriage (GRT2W)

Noise Level

LWA 98

(70 dB(A) at 10m)

Gen Set Options

(available as factory options)

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Remote control for Amperage and Arc Force

Certified spark arrestor muffler

Versions with different voltages

60 Hz version

Gen Set Accessories

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 50 mm² (20+15 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

DC WELDING

Duty Cycle @ 35%	420 A - 36 V
Duty Cycle @ 60%	380 A - 35 V
Stepless current adjustment	30 A ÷ 420 A
Open Circuit Voltage	70 V
Max welding rod	6 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Three Phase Power	15 kVA - 400 V
Single Phase Power	10 kVA - 230 V
Single Phase Power	5 kVA - 48 V

DIESEL ENGINE - 3000 RPM

Type	Lombardini LDW1404 FOCS - 4 cyl. - 31,5 HP - 1372 cm ³
Fuel	diesel
Cooling system	water
Starting system	electric
Fuel tank capacity	40 l
Specific consumption	290 g/KWh

DIMENSIONS AND WEIGHT

L x W x H (trailer not included)	1510 x 730 x 860 mm
Net Weight	470 kg



Diesel Engine Driven Welder/Generator • Delivers 500 A of DC weld output Single phase auxiliary power available

Gen Set Features

Processes: STICK / SCRATCH TIG / CAG

Oil pressure, head temperature, engine fan belt, fuel level and battery charger warning lights

Built-in battery

Fuel level gauge - Hourmeter - Voltmeter

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

Remote control socket

ARC FORCE CONTROL with changeover switch basic / cellulosic welding rods

CARBON ARC GOUGING socket

Central lifting eye

Gen Set Accessories

Two-wheels site tow undercarriage (GRT2W)

Four-wheels site tow undercarriage (GRT4W)

Four-wheels trailer with leaf springs and towing bar (GRT4WLB)

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 50 mm² (20+15 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

Gen Set Options

(available as factory options)

Earth Leakage Circuit Breaker (ELCB)

20 kVA, 400VAC - 50Hz three phase output with ELCB

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- low fuel level
- low oil pressure
- head temperature
- engine fan belt failure

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Remote control for Amperage and Arc Force

Weld Voltmeter and Ammeter

Certified spark arrestor muffler

Versions with different voltages

60 Hz version

Noise Level

LWA 103

(75 dB(A) at 10m)

DC WELDING

Duty Cycle @ 60%	500 A - 40 V
Duty Cycle @ 100%	400 A - 36 V
Stepless current adjustment	30 A ÷ 500 A
Open Circuit Voltage	70 V
Max welding rod	10 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Single Phase Power	12 kVA - 230 V

DIESEL ENGINE - 1500 RPM

Type	Deutz F3L914 - 3 cyl. - 39 HP - 3236 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	70 l
Specific consumption	245 g/kWh

DIMENSIONS AND WEIGHT

L x W x H	1590 x 800 x 1150 mm
Net Weight	920 kg



**Diesel Engine Driven Welder/Generator • Delivers 500 A of DC weld output
Single phase auxiliary power available • Soundproof model (I-PS)**

Gen Set Features

Processes: STICK / Scratch Start TIG / CAG

Oil pressure, coolant temperature, overspeed, fuel level and battery charger warning lights
Built-in battery
Hourmeter - Voltmeter
Fuel level gauge
1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
Remote control socket
ARC FORCE CONTROL with changeover switch
basic / cellulosic welding rods
CARBON ARC GOUGING socket
Central lifting eye

Gen Set Accessories

Two-wheels site tow undercarriage (GRT2W)
Four-wheels site tow undercarriage (GRT4W)
Four-wheels trailer with leaf springs and towing bar (GRT4WLB)
Remote control unit complete with 20m cable and plug
Parallel Welding Box with ammeter and voltmeter (P-BOX)
Welding cables Ø 50 mm² (20+15 m) with accessories
Reverse polarity switch kit
MIG/MAG wire feeder

Gen Set Options

(available as factory options)

Earth Leakage Circuit Breaker (ELCB)
20 kVA, 400VAC - 50Hz three phase output with ELCB
DAS, auto engine protection shutdown system with warning lights in case of:
- battery charger failure
- high coolant temperature
- low fuel level
- low oil pressure
- overspeed
Cold weather starting aid
Remote control for Amperage and Arc Force
Weld Voltmeter and Ammeter
LIFT START TIG facility
CC/CV control for MIG/MAG welding
Certified spark arrestor muffler
Versions with different voltages
60 Hz version

Noise Level

PS version	LWA 101	(73 dB(A) at 10m)
I-PS version	LWA 98	(70 dB(A) at 10m)

DC WELDING

Duty Cycle @ 60%	500 A - 40 V
Duty Cycle @ 100%	400 A - 36 V
Stepless current adjustment	30 A ÷ 500 A
Open Circuit Voltage	70 V
Max welding rod	10 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Single Phase Power	12 kVA - 230 V

DIESEL ENGINE - 1500 RPM

Type	Perkins 3.152.4 - 3 cyl. - 36 HP - 2500 cm ³
Fuel	diesel
Cooling system	water
Starting system	electric
Fuel tank capacity	76 l
Specific consumption	230 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	2015 x 800 x 1150 mm
Net Weight: PS version	950 kg
I-PS version	970 kg



**Diesel Engine Driven Welder/Generator • Delivers 600 A of DC weld output
Single phase auxiliary power available**

Gen Set Features

Processes: STICK / SCRATCH TIG / CAG

Oil pressure, head temperature, engine fan belt, fuel level and battery charger warning lights

Built-in battery

Fuel level gauge - Hourmeter - Voltmeter

1 x 230 V - 50 Hz single phase outlet protected by circuit breaker

Remote control socket

ARC FORCE CONTROL with changeover switch basic / cellulosic welding rods

CARBON ARC GOUGING socket

Central lifting eye

Gen Set Accessories

Two-wheels site tow undercarriage (GRT2W)

Four-wheels site tow undercarriage (GRT4W)

Four-wheels trailer with leaf springs and towing bar (GRT4WLB)

Remote control unit complete with 20m cable and plug

Parallel Welding Box with ammeter and voltmeter (P-BOX)

Welding cables Ø 50 mm² (20+15 m) with accessories

Reverse polarity switch kit

MIG/MAG wire feeder

Gen Set Options

(available as factory options)

Earth Leakage Circuit Breaker (ELCB)

20 kVA, 400VAC - 50Hz three phase output with ELCB

DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- low fuel level
- low oil pressure
- head temperature
- engine fan belt failure

LIFT START TIG facility

CC/CV control for MIG/MAG welding

Remote control for Amperage and Arc Force

Weld Voltmeter and Ammeter

Certified spark arrestor muffler

Versions with different voltages

60 Hz version

Noise Level

LWA 103

(75 dB(A) at 10m)

DC WELDING

Duty Cycle @ 40%	600 A - 40 V
Duty Cycle @ 100%	500 A - 40 V
Stepless current adjustment	30 A ÷ 600 A
Open Circuit Voltage	70 V
Max welding rod	10 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Single Phase Power	12 kVA - 230 V

DIESEL ENGINE - 1500 RPM

Type	Deutz F4L914 - 4 cyl. - 53 HP - 3770 cm ³
Fuel	diesel
Cooling system	air
Starting system	electric
Fuel tank capacity	70 l
Specific consumption	215 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	1787 x 800 x 1150 mm
Net Weight	1055 kg



**Diesel Engine Driven Welder/Generator • Delivers 600 A of DC weld output
Single phase auxiliary power available • Soundproof model (I-PS)**

Gen Set Features

Processes: STICK / Scratch Start TIG / CAG

Oil pressure, coolant temperature, overspeed, fuel level and battery charger warning lights
Built-in battery
Hourmeter - Voltmeter
Fuel level gauge
1 x 230 V - 50 Hz single phase outlet protected by circuit breaker
Remote control socket
ARC FORCE CONTROL with changeover switch
basic / cellulosic welding rods
CARBON ARC GOUGING socket
Central lifting eye

Gen Set Accessories

Two-wheels site tow undercarriage (GRT2W)
Four-wheels site tow undercarriage (GRT4W)
Four-wheels trailer with leaf springs and towing bar (GRT4WLB)
Remote control unit complete with 20m cable and plug
Parallel Welding Box with ammeter and voltmeter (P-BOX)
Welding cables Ø 50 mm² (20+15 m) with accessories
Reverse polarity switch kit
MIG/MAG wire feeder

Gen Set Options

(available as factory options)

Earth Leakage Circuit Breaker (ELCB)
20 kVA, 400VAC - 50Hz three phase output with ELCB
DAS, auto engine protection shutdown system with warning lights in case of:

- battery charger failure
- high coolant temperature
- low fuel level
- low oil pressure
- overspeed

Cold weather starting aid
Remote control for Amperage and Arc Force
Weld Voltmeter and Ammeter
LIFT START TIG facility
CC/CV control for MIG/MAG welding
Certified spark arrestor muffler
Versions with different voltages
60 Hz version

Noise Level

PS version	LWA 101	(73 dB(A) at 10m)
I-PS version	LWA 98	(70 dB(A) at 10m)

DC WELDING

Duty Cycle @ 60%	600 A - 40 V
Duty Cycle @ 100%	500 A - 40 V
Stepless current adjustment	30 A ÷ 600 A
Open Circuit Voltage	70 V
Max welding rod	10 mm

AC GENERATOR - 50 Hz

Type	Gen Set asynchronous brushless
Single Phase Power	12 kVA - 230 V

DIESEL ENGINE - 1500 RPM

Type	Perkins 1004G NFE - 4 cyl. - 59 HP - 3937 cm ³
Fuel	diesel
Cooling system	water
Starting system	electric
Fuel tank capacity	76 l
Specific consumption	230 g/KWh

DIMENSIONS AND WEIGHT

L x W x H	2015 x 800 x 1150 mm
Net Weight: PS version	1090 kg
I-PS version	1110 kg

SPECIAL MACHINES SERIES



Our engine driven welders are fitted with **two, three or four stand-alone welding stations** featuring power ratings between **250A** and **400A** which are suitable to virtually weld any kind of electrode.

Upon request, **MIG/MAG** and **TIG Lift Arc** processes can be arranged. The implementation of a three-phase output (400V) and a single-phase (230V), provided as standard equipment on all models, meets a wide range of power supply requirements on the workplace.

Perkins water-cooled engines and **Deutz** air cooled engines, both running at 1500 rpm, have been supplied.

Upon request **Gen Set** produces a series of **engine driven welders** specifically designed for **tailor-made applications**.

Machines engineered and equipped for pipelines construction, refinery works, repairs on shipyards and off-shores.

The range includes soundproofed and non-soundproofed models in accordance with enforceable EC standards.



To complete our range of tailor-made applications, Gen Set is proud to introduce a **welding generator**, fitted with **two 400A stand-alone stations**, coupled to a **4WD tractor** to follow pipelines works in particularly rough areas.

For further information on our products, please contact Gen Set's sales offices directly



ARC FORCE CONTROL

This device allows to get an adjustable additional welding current during low voltage conditions (short arc length) which helps to avoid electrode "sticking" when short arc length is used.

CC/CV control for MIG/MAG welding

Enables welding with MIG/MAG process and provides the connection between the machine and the wire feed unit.

MIG/MAG wire feeder

Portable wire feeder unit for MIG/MAG welding process.

The unit does not include:

- connecting cables between the welder and the wire feeder
- gun
- pressure reducer.



MIG/MAG wire feeder

DAS (auto engine shutdown system)

It's a special protection system which immediately stops the engine, avoiding any major failure, in the following cases:

- battery charger failure
- high coolant temperature
- low oil pressure
- low fuel level.

A signal lamp indicates the specific failure.

Earth Leakage Circuit Breaker (ELCB)

Safety protection device which cuts off the current supply in dangerous situations (i.e. electrical insulation loss of a unit connected to the generator).

TERMINOLOGY

P-BOX

This portable unit (6,5 kg) permits paralleling of two equal power engine driven welders doubling the welding current output.

Equipped with welding voltmeter and ammeter and connecting cables.



P-BOX

Remote control kit

Remote hand amperage control, supplied with 20 m cable and plug.



Remote control kit

Reverse polarity switch kit

Electrically operated device to reverse polarity, suitable for electronic control welders up to 500 Amps, including:

- polarity switch box;
- connecting cables between the welder and the polarity switch box;

remote control, with 20 m cable and plug, composed of:

- welding current potentiometer;
- polarity selector switch with warning light.



Reverse polarity switch kit

Certified Spark Arrestor Muffler

Safety device which stops sparks emission from the muffler. Recommended for use in particular areas such as refineries or petrol-chemical storage areas.

Trolley, wheelbarrow type

Different models of trolleys, with two wheels and handles are available.



Trolley

Welding cables with accessories

The kit includes:

- one dark screen;
- one transparent glass;
- one chipping hammer;
- one steel brush;
- one electrode holder with 5 m cable, sect. 25 mm², and one ground clamp with 3 m cable, sect. 25 mm² (type **ST 25**) and/or
- one electrode holder with 5 m cable, sect. 35 mm², and one ground clamp with 3 m cable, sect. 35 mm² (type **ST 35**) and/or
- one electrode holder with 20 m cable, sect. 50 mm², and one ground clamp with 15 m cable, sect. 50 mm² (type **ST 50**).



Welding cables with accessories

Gen Set site tow undercarriages (max 10-12 km/h)

Three types of Gen Set trailers are available for off road use only:

1) **GRT 2W: two-wheels site tow under-carriage**

Either factory assembled or supplied in kit includes:

- heavy duty axle with ball bearing hubs with 2 pneumatic wheels;
- towing bar with lunette eye;
- levelling jack stand or steering jack wheel;
- mounting hardware.



GRT 2W

2) **GRT 4W: four-wheels site tow under-carriage**

Either factory assembled or supplied in kit includes:

- rear heavy duty axle with ball bearing hubs with drum brake and 2 pneumatic wheels;
- front heavy duty axle with ball bearing hubs with 2 pneumatic wheels, steering towing bar with lunette eye;
- parking brake assembly with cables (to be mounted on machine's frame);
- mounting hardware.



GRT 4W

3) **GRT 4WLB, four-wheels site tow undercarriage with leaf springs and towing bar**

Either factory assembled or supplied in kit includes:

- rear heavy duty axle with ball bearing hubs, 2 pneumatic wheels, 2 leaf springs and drum brake;
- front heavy duty axle with ball bearing hubs, steering towing bar on ball steering joints, 2 pneumatic wheels and 2 leaf springs;
- parking brake assembly;
- towing bar with lunette eye;
- mounting hardware.



GRT 4WLB