

QAC1100 TWINPOWER

PORTABLE ENERGY

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Atlas Copco

QAC1100 TwinPower

Atlas Copco

www.atlascopco.com

Welcome!

In this presentation you would learn about various features and benefits for this range of products.
At the end of this session, we expect you to have basic understanding of :

- Positioning of this product among the portfolio PC brazil
- Product applications
- Product Knowledge
- Safety points
- Tools & Serviceability

FORWARD THINKING→



WHY DID WE LAUNCH THIS PRODUCT AND WHAT IS OUR KEY MESSAGE?

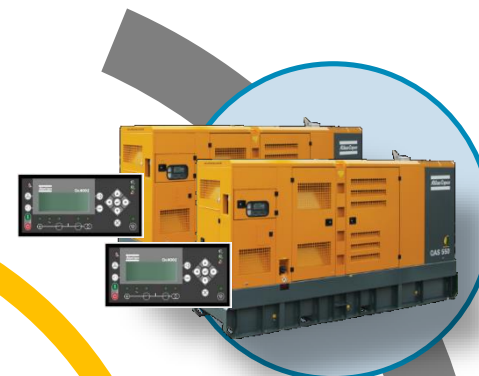


“Comprised of two 500kVA generators inside a single container, the QAC 1100 delivers power to applications with continuous or variable power needs. By combining two generators in one fully-engineered package, users can utilize up to one megawatt of power at anywhere between full load and low load maximizing fuel efficiency and cutting the associated running costs.”

Julio Tome, Product Marketing Manager

NEW QAC1100 TWINPOWER

- Unique offer in global market
- Alternative to single engine generators
- Made in Brazil



2 x QAS500
(Brazil)



TwinAir concept



QAC design

Portable Energy**BQD PRODUCTION RANGE – GENERATORS & LIGHT****Box Ac**

QAS24

WEG alternator
Perkins engine

CPDG22

**Box A**

QAS40-55-70

WEG alternator
Perkins engine

CPDG36-50-60

**Box C**

QAS85-105

WEG alternator
Perkins engine

CPDG78-95

**Box D**QAS140-170-
225WEG alternator
Perkins engine

CPDG126-155-203

**Box FB**

QAS305-360

WEG alternator
Scania engine

CPDG330

**Box HB**

QAS500-550

WEG alternator
Scania engine

CPDG500

**Box QAC**QAC1100
QIC1100WEG alternator
Scania engine**Box LT**

QLT M20

Linz alternator
Yanmar engine

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Portable Energy
OPTIONS

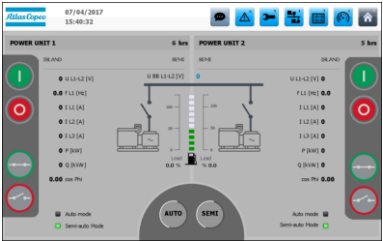


1100 kVA

**QAC1100
TwinPower
220-440 Volts
50/60 Hz
Qc4002 + ELR**

**QAC1100
TwinPower
220-440 Volts
50/60 Hz
Qc4003
IHM AGI410
Touchscreen
+ ELR**

**QAC1100
TwinPower
220-440 Volts
50/60 Hz
Qc4003
EU Certification
+ ELR**



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KEY SEGMENTS / APPLICATIONS / DRIVERS

Specialized power rental

IPP / Utilities

(COP-PRP)

→ Low Fuel Consumption



Events

(PRP – Redundancy)

→ Low noise



O&G / Marine

(PRP-Peak Shaving)

→ Mobility (dim. & weight)



Mining / Construction

(PRP)

→ Support



FULLY EQUIPED AS STANDARD



DAILY FUEL TANKS
POLYETHYLENE



SPILLAGE FREE
FRAME CERTIFIED



500h
SERVICE INTERVALS



ENGINE COOLANT HEATER



BATTERY SWITCH



MANUAL OIL PUMP DRAINING



HEAVY DUTY AIR FILTER FUEL FILTER



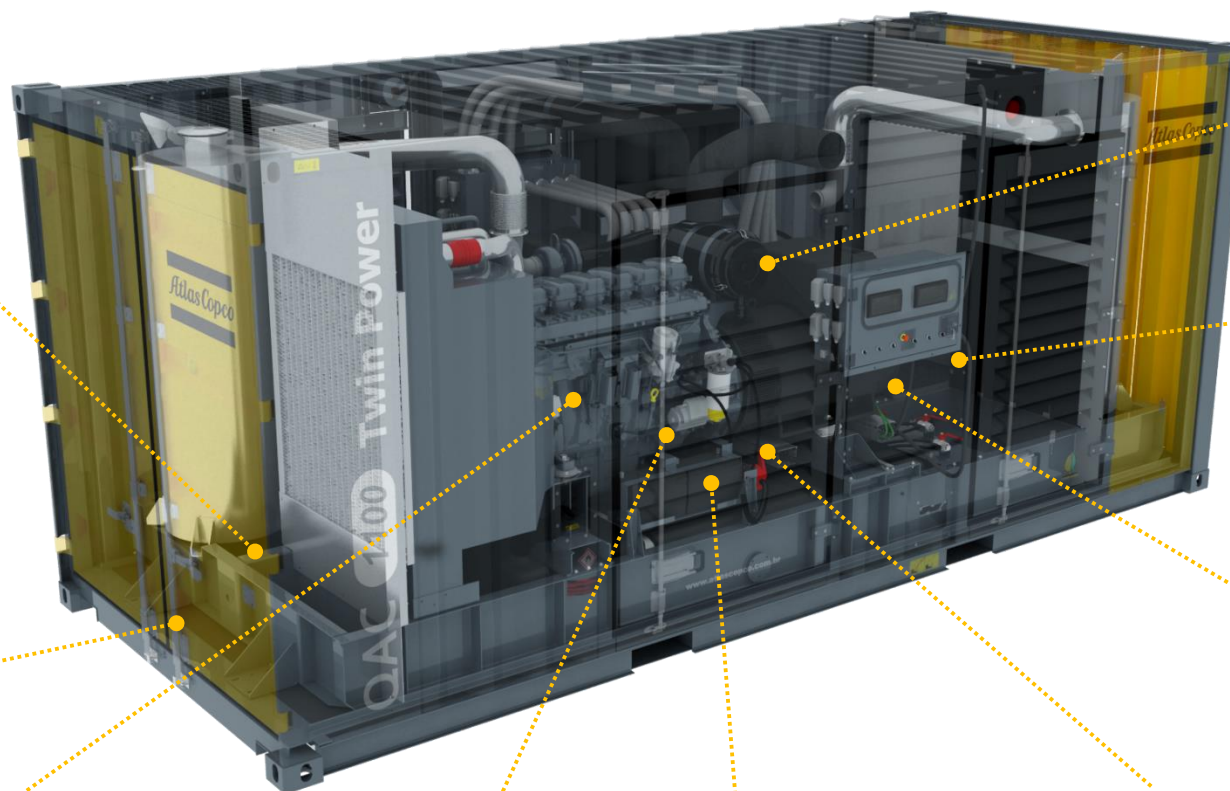
ALTERNATOR AREP EXCITATION SYSTEM



CUBICLE BATTERY CHARGER



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QAC1100 GENERATORS DATA



13-litre 6-cylinder
2 x

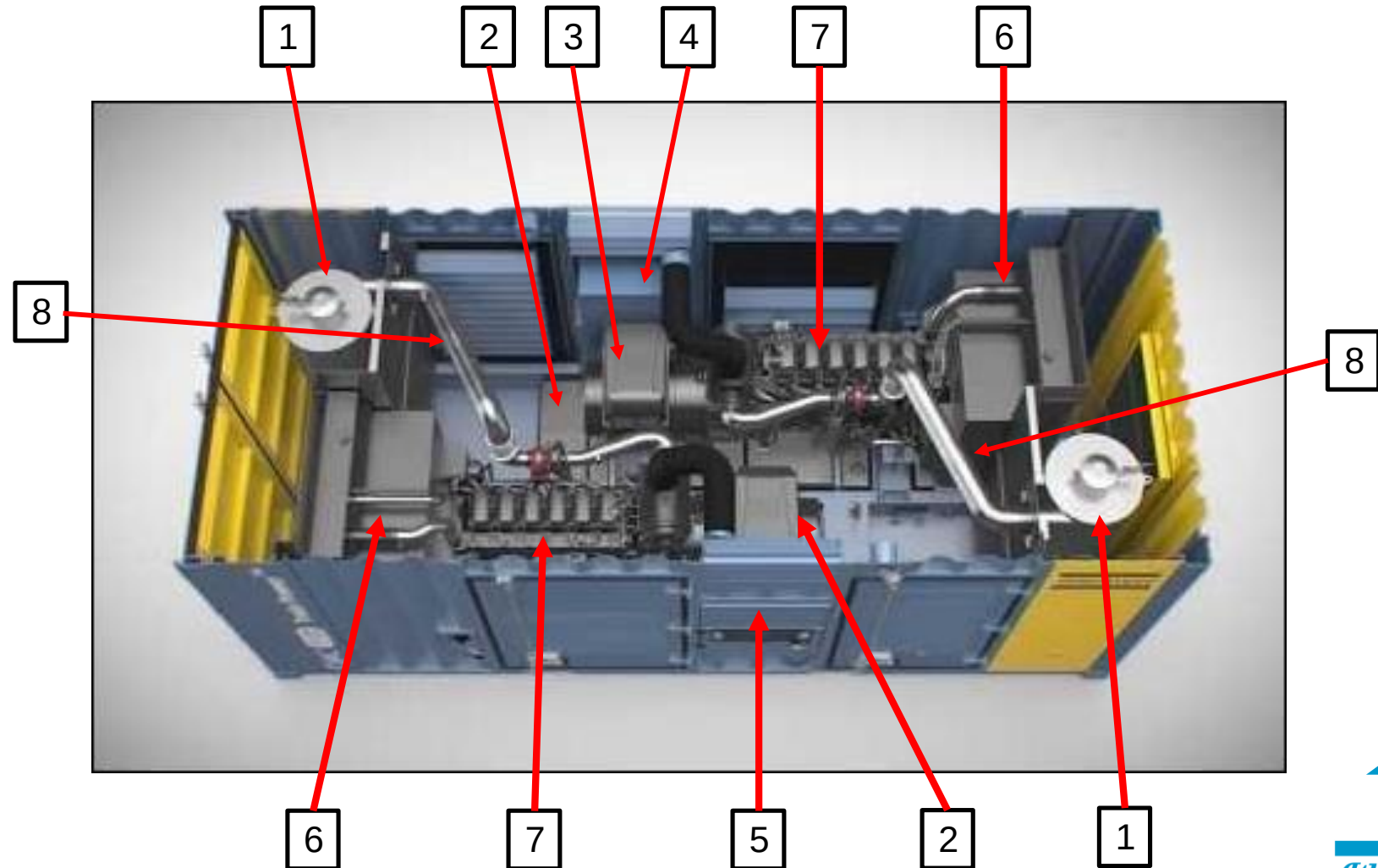


AG10 280M
2 x

Data (TwinPower)	QAC1100	
Frequency (Hz)	50	60
Altitude capability (m)	5000 (derating > 1000)	
PRP (kVA)	1000	1000
LTP (kVA)	1062	1100
Engine model (2x)	DC13 072A	
Emission Compliance	T1	T1
Rated voltage line to line (V)	400	220 380 440
Single step load acceptance % (G2) acc. ISO8528-5	50	70
Fuel consumption @ 75% PRP (l/h)	146	148
Fuel tank capacity (L)	1640 (2x 820L)	
Sound Power dB(A)	103	103
Dimension L x W x H (mm)	20ft container 6.060 x 2.500 x 2.600	
Weight (kg)	11.964 (all fluids)	

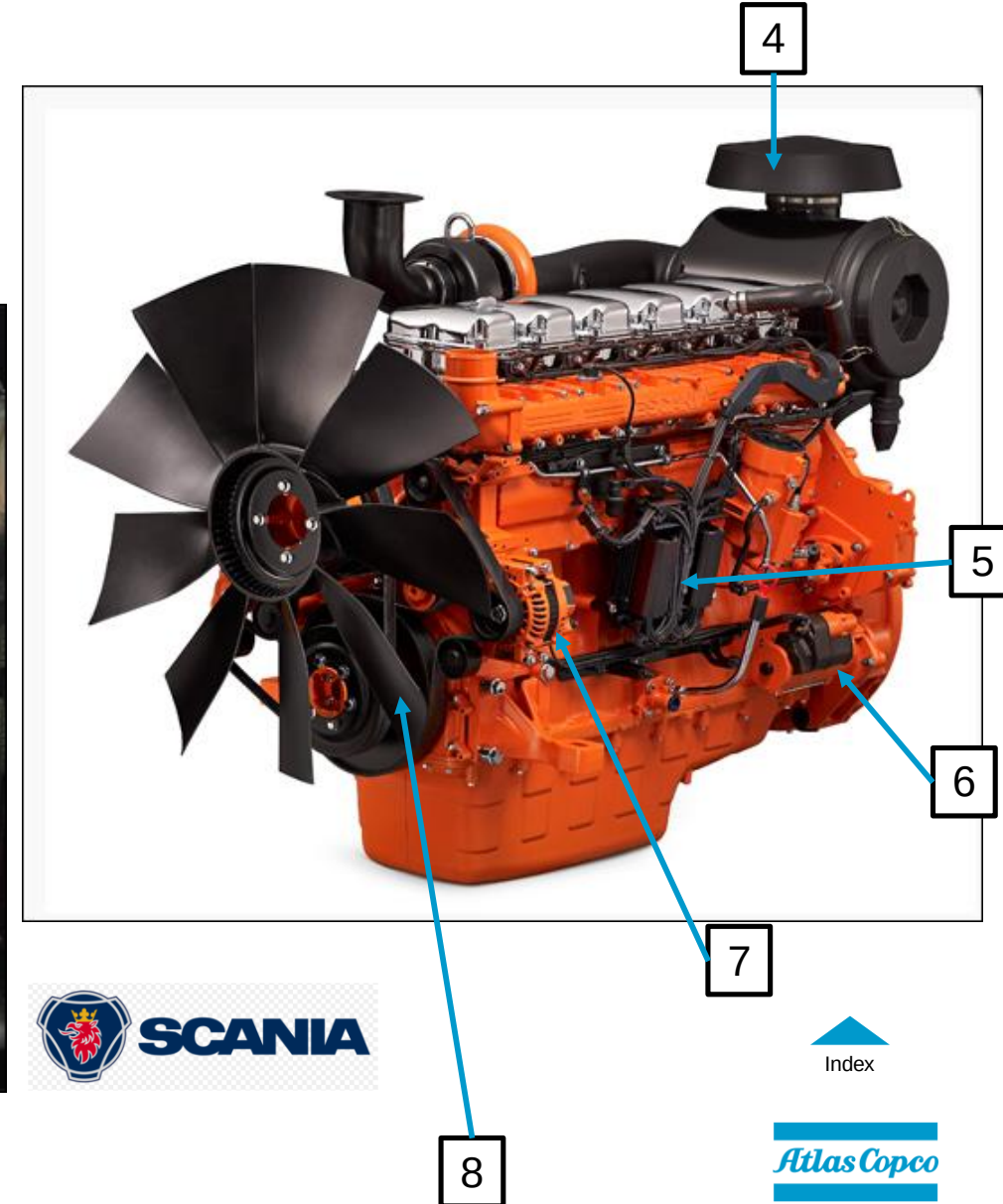
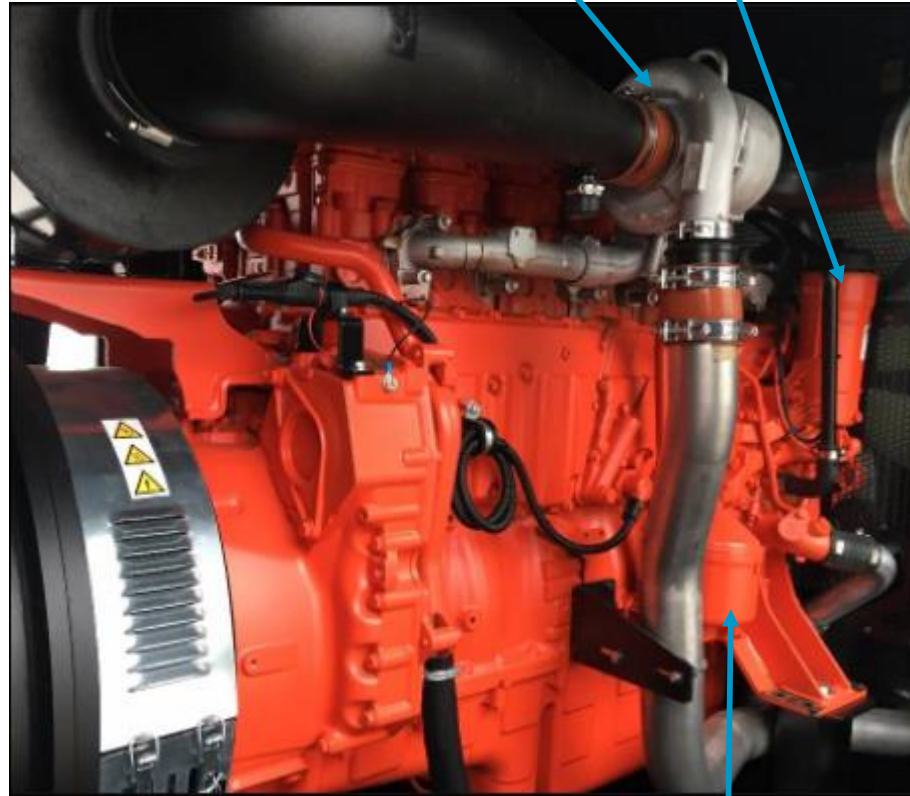
BASIC COMPONENTS

1. Silencer
2. Fuel tank
3. Alternator
4. Electrical power panel
5. Electrical control panel
6. Cooling package
7. Engine
8. Exhaust pipe



ENGINE PARTS

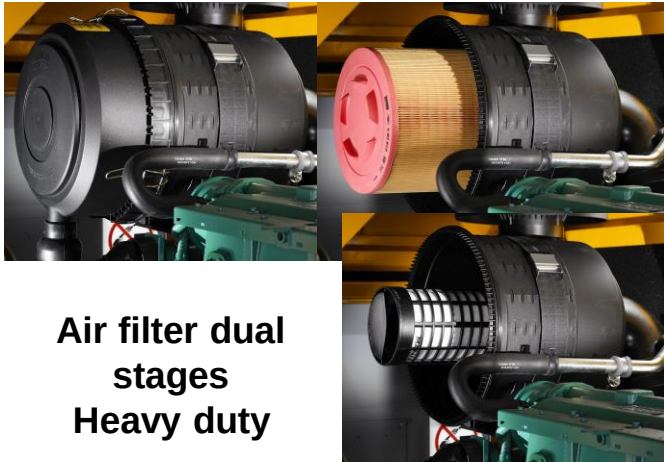
1. Turbo Charger
2. Oil filter
3. Centrifugal filter
4. Air filter
5. EMS unit
6. Starter
7. Alternator
8. Fan



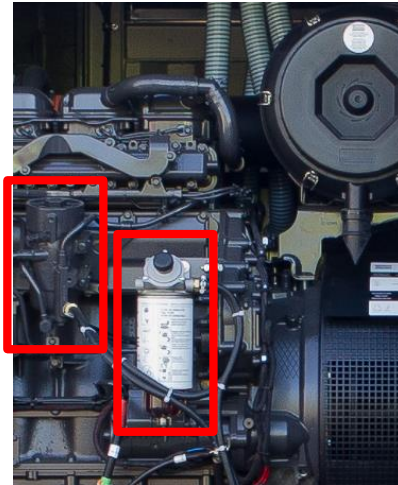
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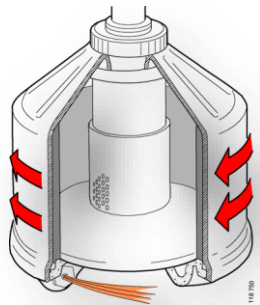
HEAVY DUTY FILTERS FOR ENGINE



**Air filter dual
stages
Heavy duty**



Dual fuel filters



**Centrifugal oil
filter**



Big oil filter



**Engine and fuel system
design to operate with
heavy fuel sulfur
>500ppm**

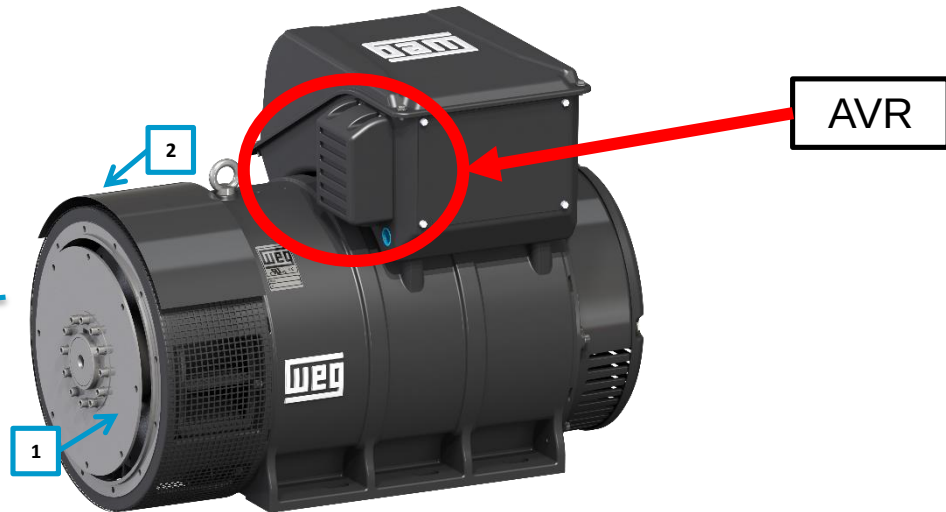
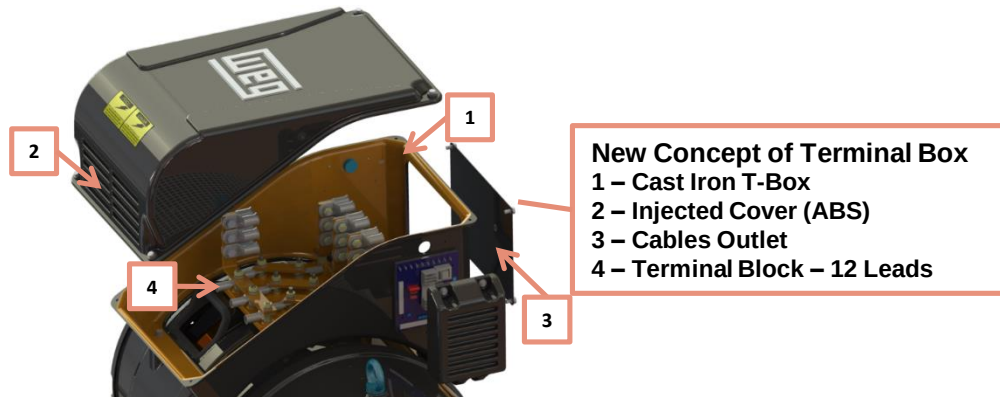


Lower oil volume

**Reliable
operation with
smaller
maintenance
cost**

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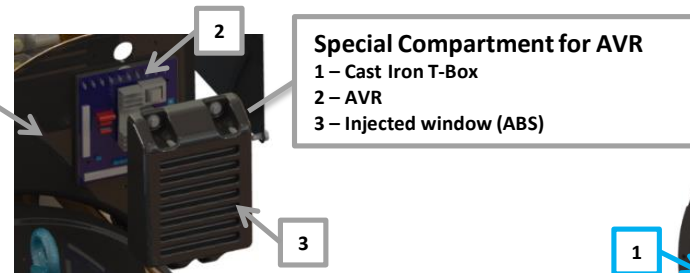
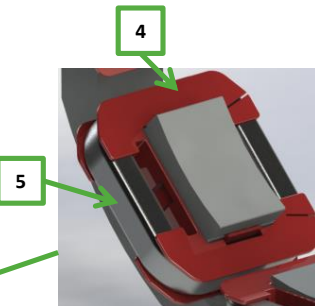
ALTERNATOR DETAILS



Stamping Components
 1 – Coupling disk
 2 – Screen Cover



Rear Cover and Exciter
 1 – Cast Iron (rear cover)
 2 – Injected (ABS)
 3 – Exciter Stator
 4 – Injected Spool
 5 – Copper wire coil



New Concept of Frame
 1 – Casted Iron and Machined Frame
 Stringers – Fins – Better stiffness, thermal performance .
 Excellent performance in terms of Vibration Levels.



CONTROL ELECTRICAL PANEL – QC4002

Two possible assembly position for control panel



Top position

Machine
operating at
the ground



Lower position
when operated
on truck

CONTROL ELECTRICAL PANEL – QC4002

Powering On-

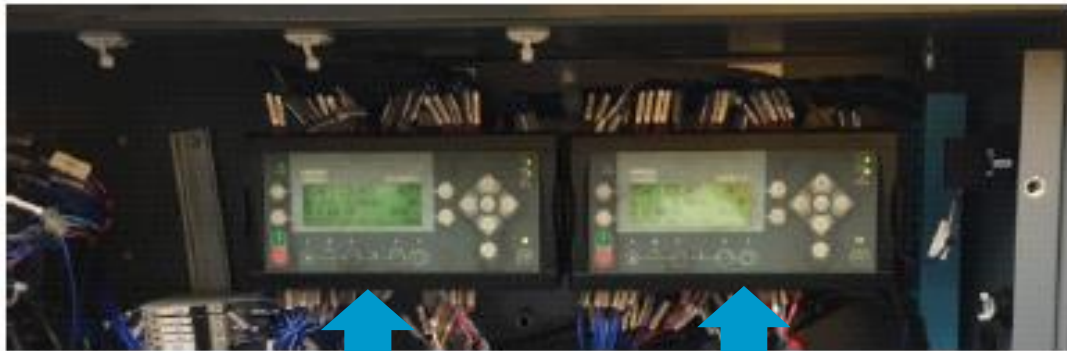


1.
On the
Battery
Switch at
each Engine
Battery

2.
Open the
Screws on
Control
Panel and
Switch on
the **BLUE**
Circuit
breakers for
each
Controls and
DC Power

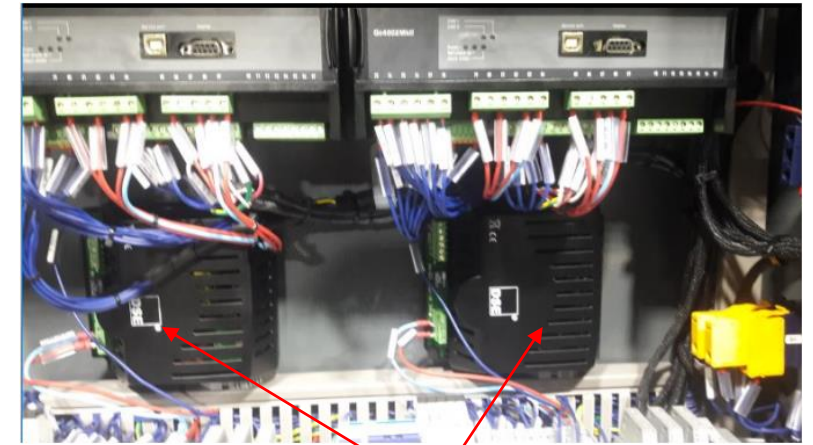


CONTROL ELECTRICAL PANEL – QC4002



Qc4002
G1

Qc4002
G2



Batteries charges
for CE machines

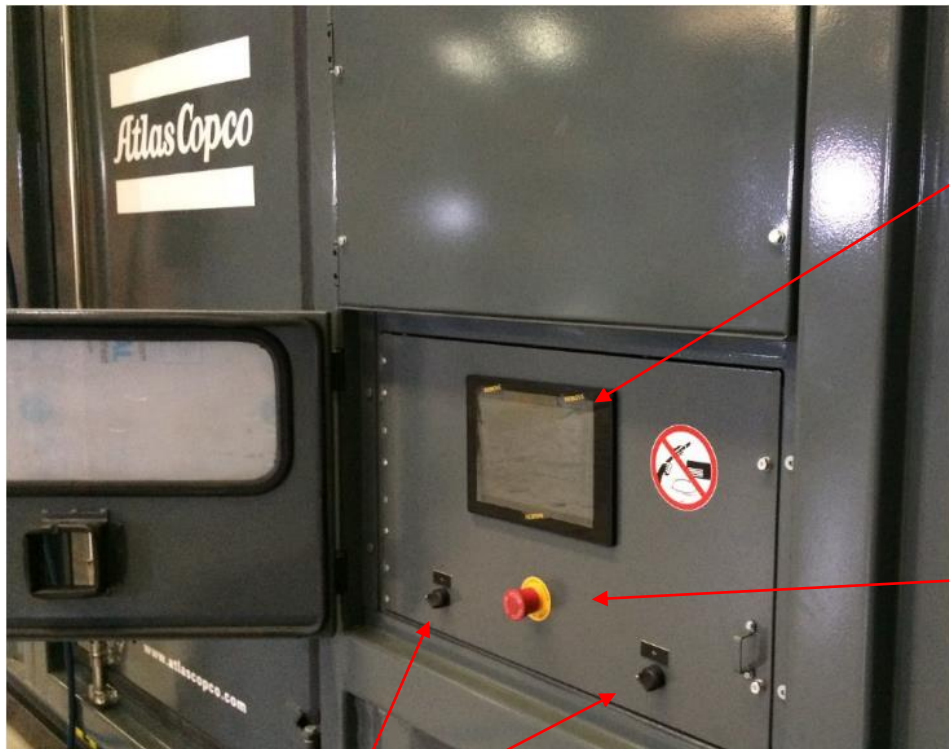


Batteries charges

Breakers

CONTROL ELECTRICAL PANEL – IHM TOUCH AGI410

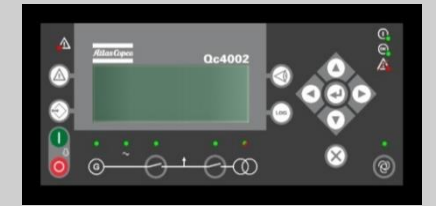
Hidden!



IHM touchscreen
DEIF AGI410

Emergency
bottom

On-off switch
G1 – G2



Cabin Light
on/Off Switch.



Cables for
parallelism
ALS or PMS

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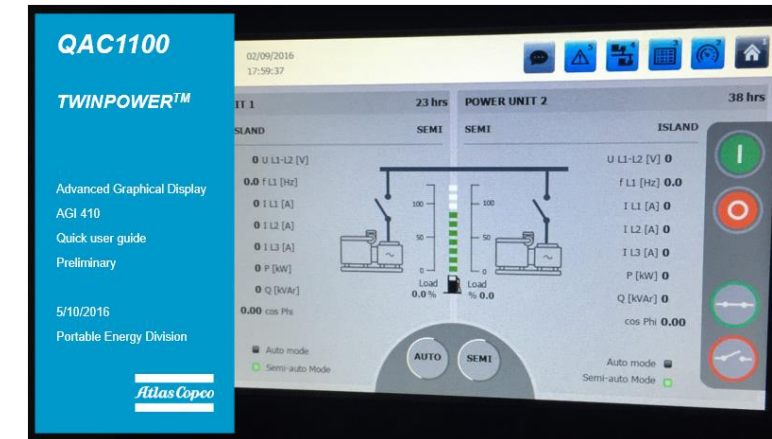
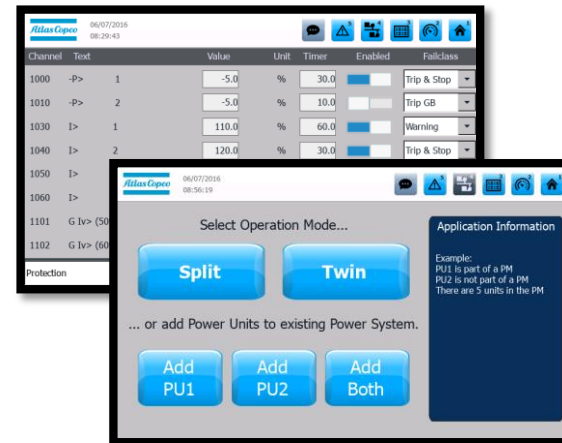
CONTROL ELECTRICAL PANEL – IHM TOUCH AGI410

■ Easy to use customer's interface

- Intuitive touchscreen
- Qc4003 inside cubicle

■ 3 operation modes

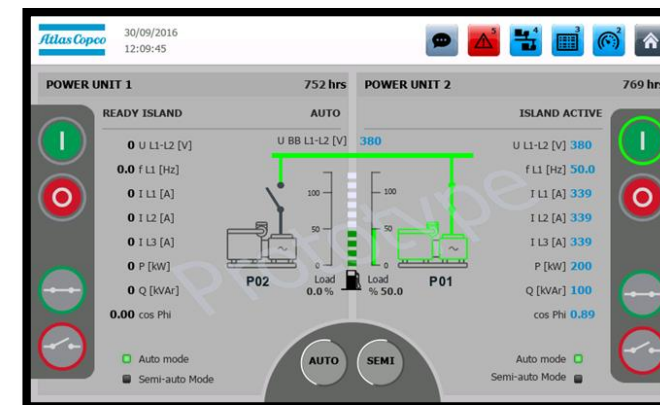
- Fuel optimizer (PMS)
- Redundancy (both units all the time)
- Split (independent units)



Centralized
control &
monitoring



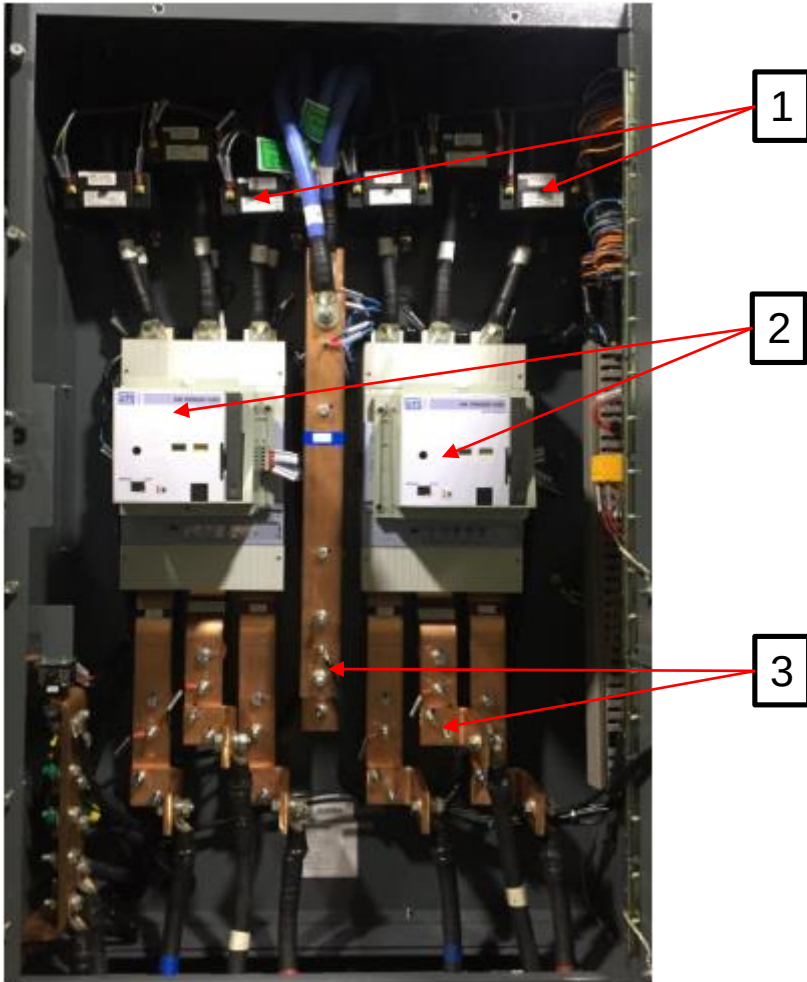
2 clicks
selection:
Fuel optimizer,
redundancy, split



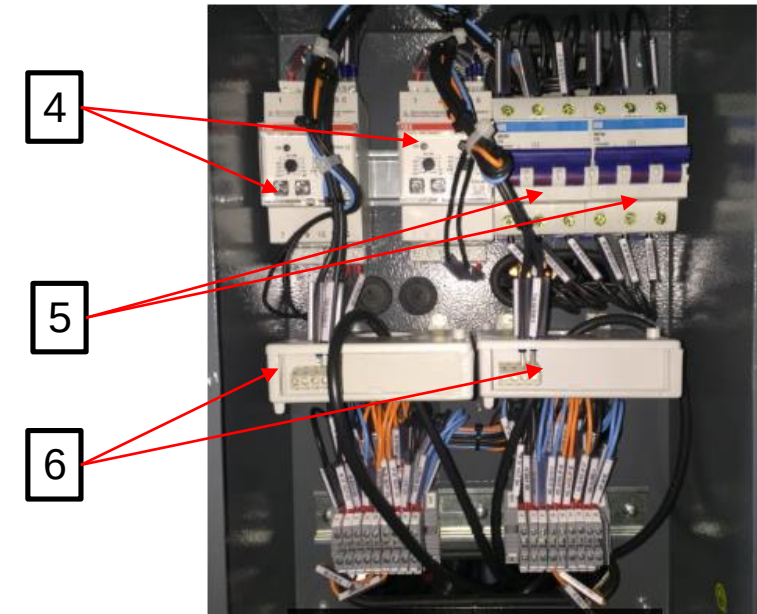
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ELECTRICAL POWER PANEL



- 1) Current transformer
- 2) Breakers
- 3) Connection bars
- 4) ELR - earth leakage Relay
- 5) Breakers
- 6) TCs



2

SAFETY

- Emergency bottoms Power Panel



1



2

- Emergency bottoms Control Panel



3



4

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SAFETY

- Warnings labels



- Safety bus bars design



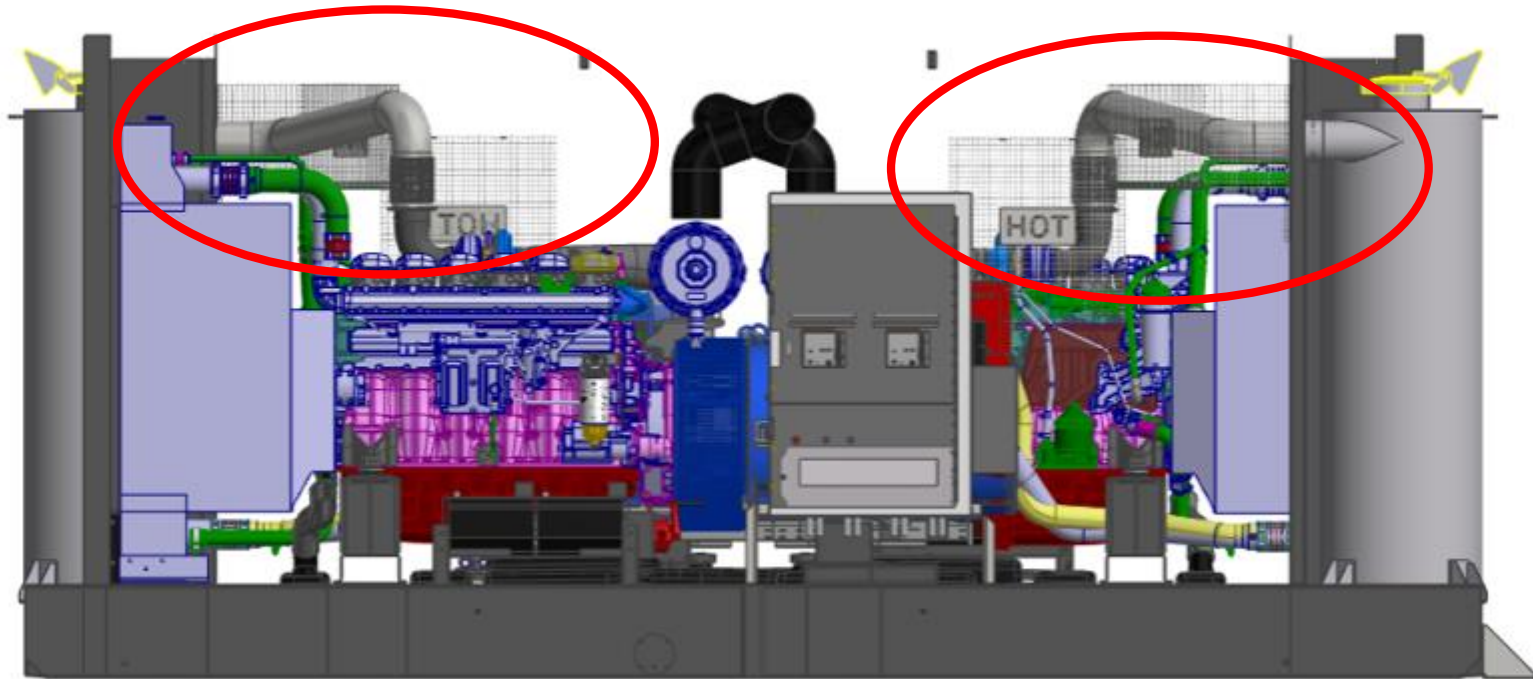
- AVR outside connections
Alternators box



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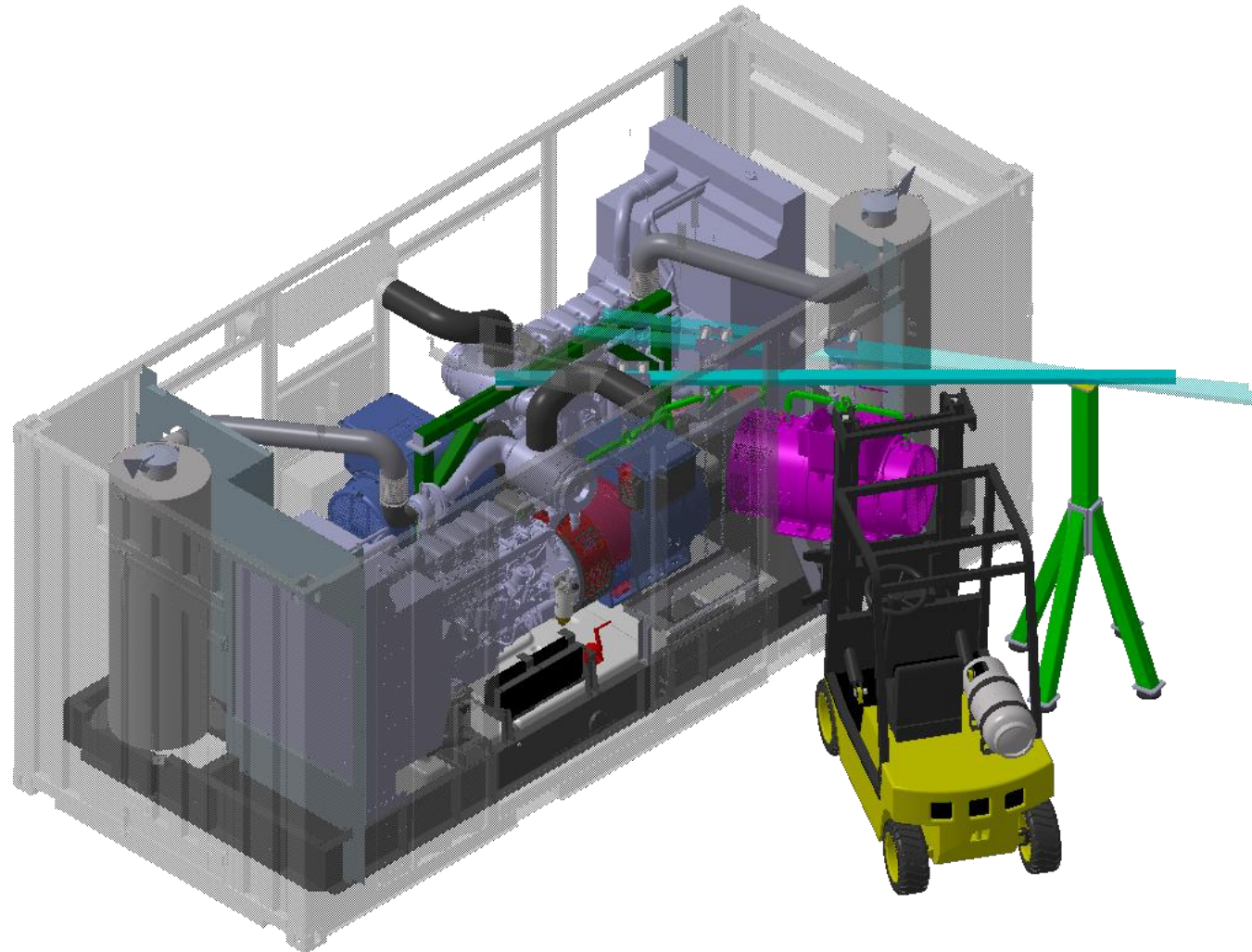
SAFETY

- Grids for hot parts



TOOLS & SERVICEABILITY

- Special tool for repack alternator



MAINTENANCE KITS



Parts Online link:

<https://documoto.digabit.com/Portal/>

Service kit 500h

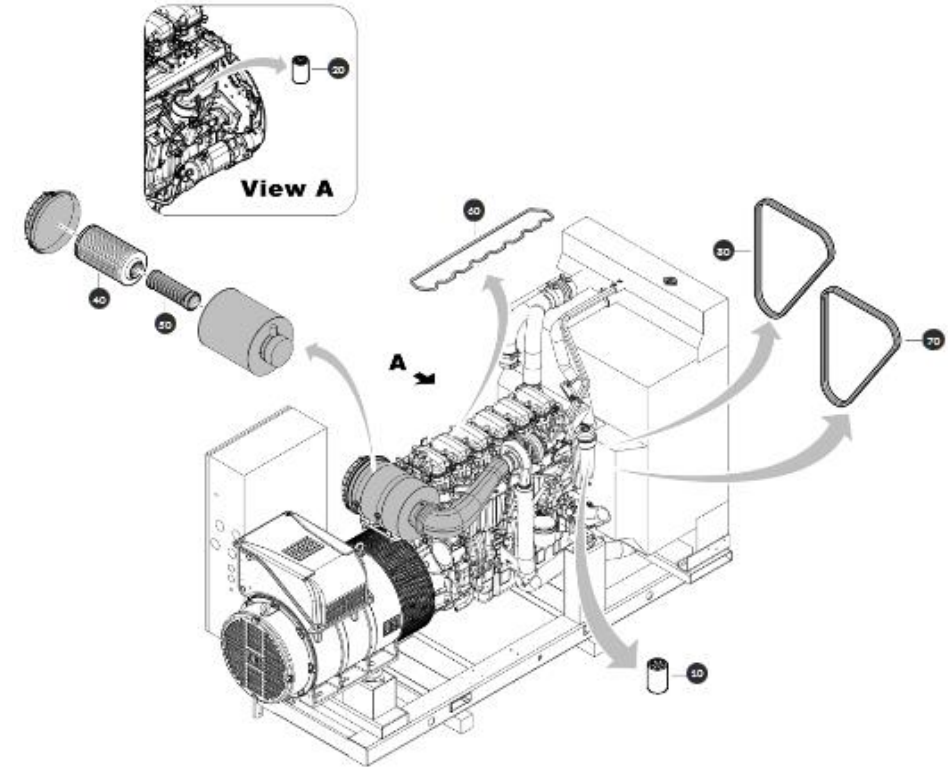
Oil filter
Fuel filter

Service kit 1000h

Oil filter
Fuel filter
Air filter element (primary)
Safety element

Service kit 2000h

Oil filter
Fuel filter
Air filter element (primary)
Safety element
Valve cap gasket
Belt
Fan Belt



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ALTERNATORS MAINTENANCE KITS

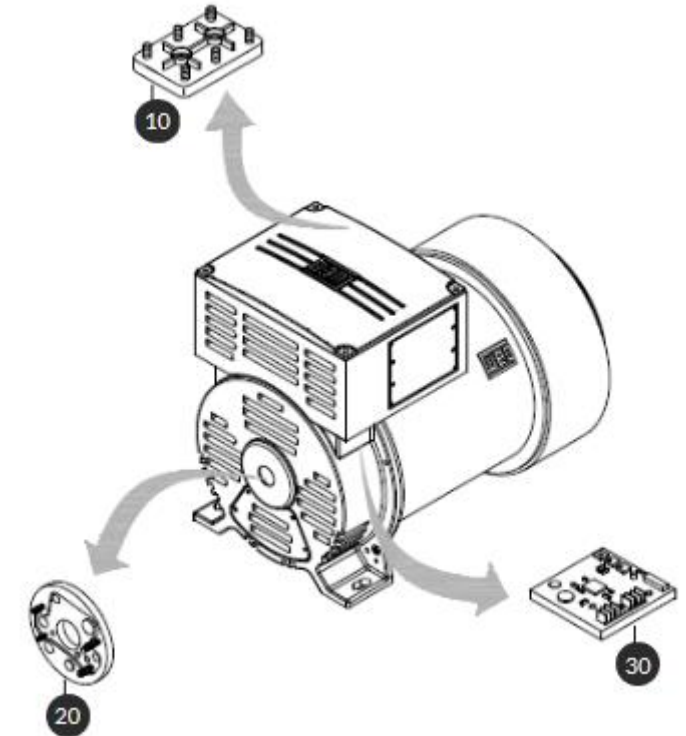


Parts Online link:

<https://documoto.digabit.com/Portal/>

Alternator parts permitted to be replace in advanced by CC:

- 1) Terminal Board kit
- 2) Diode plate kit
- 3) AVR – Automatic voltage regulator

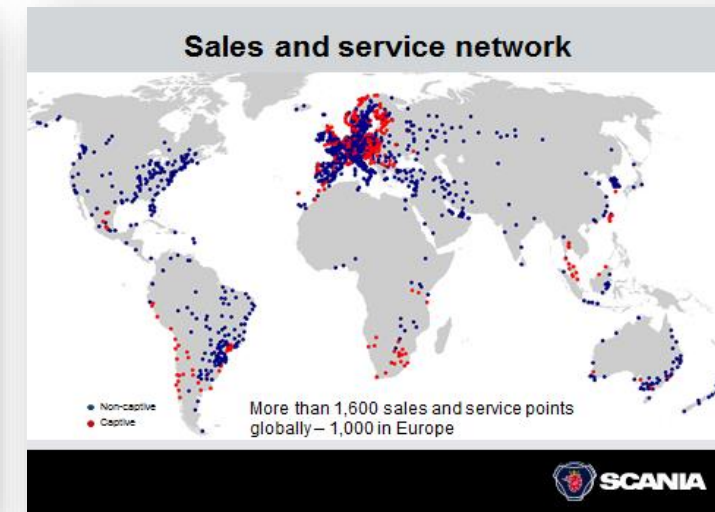
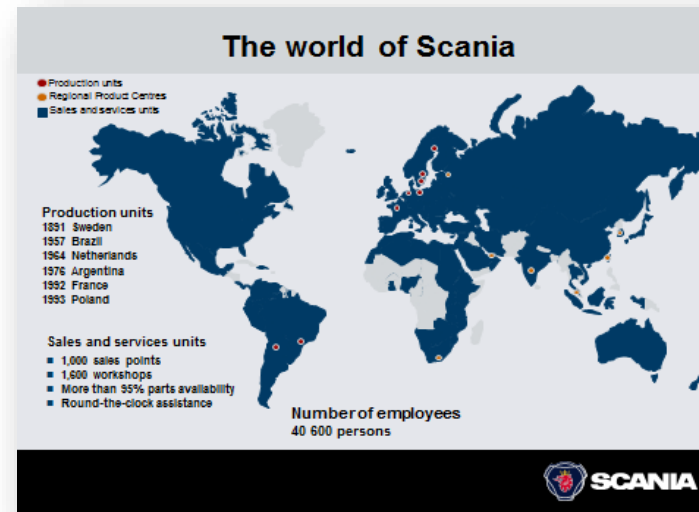


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SUPPLIER WORLDWIDE



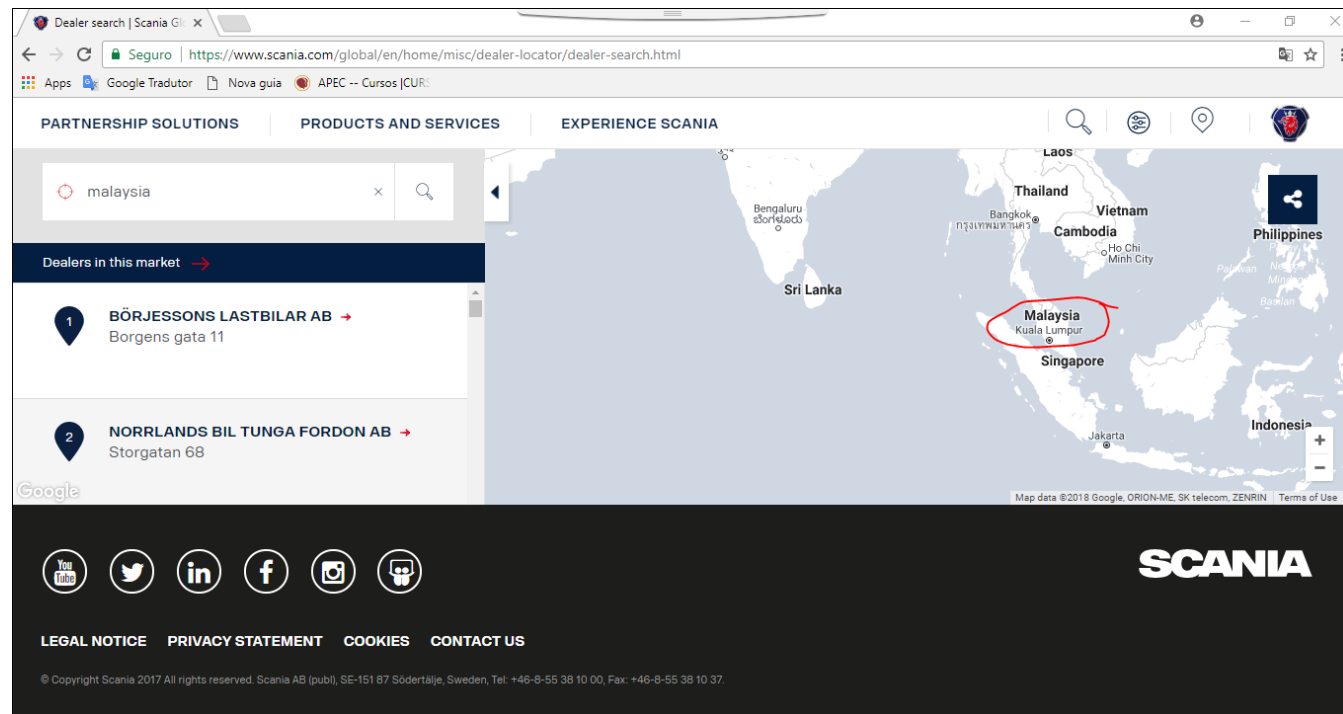
- Scania
 - Global presence
 - Nr. 1 in Latin America for power generation
 - Low cost of ownership
 - Service dealer locator:
 - <http://www.scania.com/products-services/dealer-locator/>



SUPPLIER WORLDWIDE



- Scania
 - Service dealer locator:
 - <http://www.scania.com/products-services/dealer-locator/>



SUPPLIER WORLDWIDE



- WEG
 - Strong brand in Latin America, expanding globally (production and coverage)
 - High standards in quality
 - Service:

<http://old.weg.net/us/Contact/Service-Network>

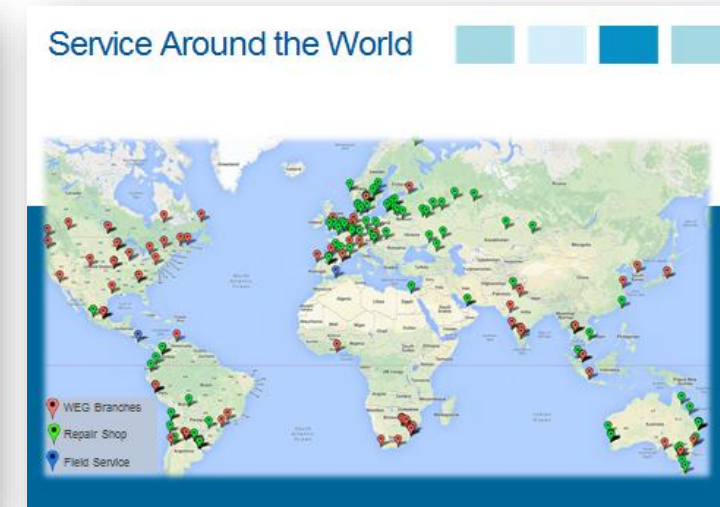


Manufacturing Plants and Branches

From the first building to facilities worldwide

Argentina	Mexico	France	Netherlands	China
Chile	United States	Austria	Sweden	Singapore
Colombia	Portugal	UK	UAE	Japan
Venezuela	Spain	Germany	Russia	Australia
Peru	Italy	Belgium	India	South Africa

(*) Jaraguá do Sul (SC); Guaramirim (SC); Blumenau (SC); Itajaí (SC); Joinville (SC); São José (SC); Gravataí (RS); Curitiba (PR); São Bernardo do Campo (SP); Mauá (SP); Monte Aro (SP); Linhares (ES); Manaus (AM).

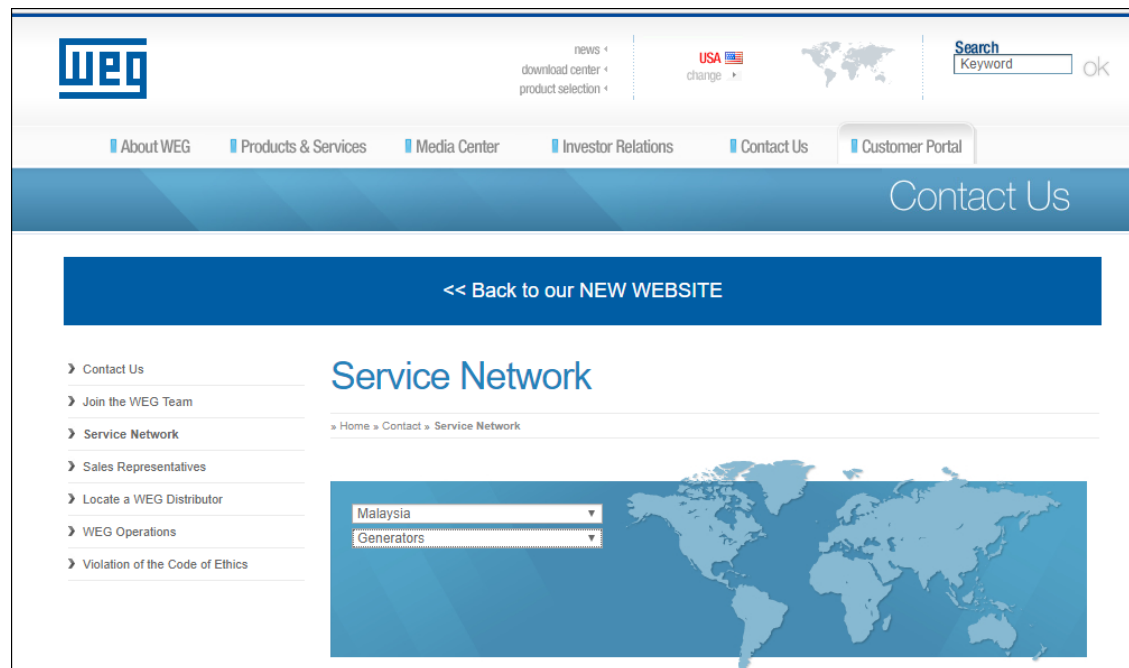


SUPPLIER WORLDWIDE



- WEG
 - Service:

<http://old.weg.net/us/Contact/Service-Network>



■ **DELEUM ROTARY SERVICES SDN BHD**
 3, Jalan P4/8, Seksyen 4, Bandar Teknologi Kajang,
 43500 Semenyih, Selangor
 Malaysia
Phone(s): 60 3 8723 7070
Fax: 60 3 8723 3070
Email: MhdDzuha.Ibrahim@deleum.com
Product:
 Generators
 Three-Phase High Voltage Motors
 Three-Phase Low Voltage Motors

■ **MASER AND QUARTZELEC SERVICE SDN. BHD.**
 Lot 55631, Jalan Sellathevan Seksyen 36 40450 Shah Alam Selangor Darul Ehsan
 Kuala Lumpur
 Malaysia
Phone(s): +603 5166 6612
Fax: +603 5166 6654
Email: malaysia@quartzelec.com
Website: <http://www.quartzelec.com/index.html>
Product:
 Generators
 Three-Phase High Voltage Motors

VIDEOS RELATED IN YOUTUBE

qac1100



Todas las piezas del QAC 1100 están diseñadas para salir por su puerta, sin necesidad de desmontar diversas partes 5:11



Dos motores menores son más eficientes que un único gran motor 4:40

video QAC1100 IN 27112015

Genmasters Gold

Há 1 ano • 711 visualizações

The new Atlas Copco QAC1100 TwinPower is ready!



Atlas Copco QAC1100 TwinPower

atlas copco construct

Há 11 meses • 1 314 visualizações

Double the flexibility. Twice the power.



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COMMITTED TO SUSTAINABLE PRODUCTIVITY.



Atlas Copco

