



- D** Diesel engine technologies
- E** Energy
- M** Motoring systems retrofit
- T** Technicians seconded to customer sites
- E** Experience
- C** Construction design
- H** High performance



DEMTECH AG

Diesel engine technologies
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What you are entitled to expect from DEMTECH

Diesel engine technologies

- 10 to 620 kW

Energy

- Generating sets
- Stand by units
- Auxiliary drives

Motoring systems retrofit

- Enhancement
- Retrofit of exhaust after-treatment systems
- Systems matching
-

Technicians seconded to customer sites

- Consulting
- Design
- Repair service
- Customer service

Experience

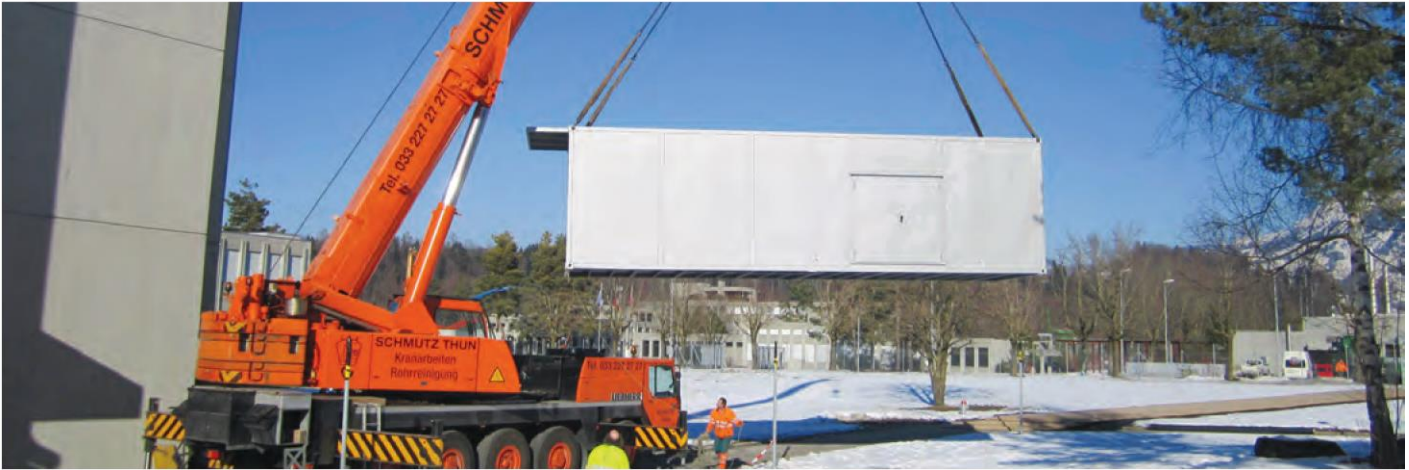
- Comprehensive customised solutions
- Assistance in design approval procedures to meet customer requirements of the Swiss Federal Inspectorate for Heavy Current Installations ESTI
- Design of fuel storage installations
- Instruction and training

Construction design

- Mechanical and electrical construction
- 2D and 3D room layout drawings

High performance

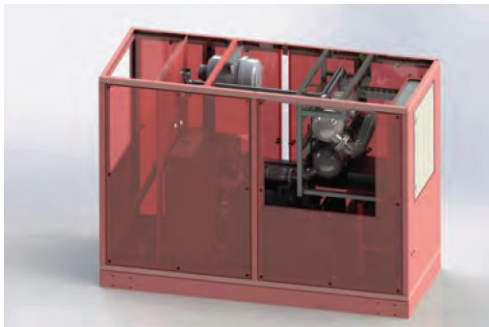
- Continuous innovations
- New and updated technologies



We are your All-in-one Supplier

Other services:

- Expert advice
- Design of customised generating sets
- Project supervision
- Construction
- Electrical diagrams
- Assistance in design approval procedures to meet customer requirements of the Swiss Federal Inspectorate for Heavy Current Installations ESTI
- Creation of 3D room layout drawings
- On site assembly and dismantling
- Design and assembly of exhaust gas systems in V4A stainless steel
- Design and assembly of fuel systems
- Design and assembly of ventilation systems
- On-site commissioning
- 24/7 customer service
- Technicians seconded to customer sites to resolve issues



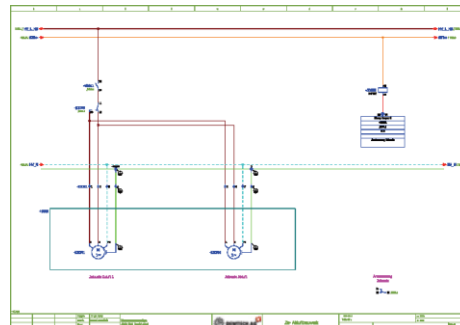
Generating set, soundproofed, powered by Tier 4 final engine, Stage V engine available



Room layout



Generating set on base frame powered by Tier 4 final engine, Stage V engine available



Electrical diagram



Energy

Portable generating sets

Standard

Power range

**2 to 15 kVA / cos phi 0.8
230V 50Hz and 400/230V 50Hz**

Construction

Built into a rigid tubular frame

Characteristics

Lightweight structure suitable for mobile applications. Ideal for locations with infrequent power requirements



Suitable for:

- civil engineering (road or public building construction sites, etc.)
- private building construction sites
- fairs
- country houses, mountain refuges, etc.
- camping vans and caravans
- agricultural applications

Engines

Petrol / diesel fuel
air cooled
recoil start or 12V electrical starter
available from a range of suppliers

Alternators

Synchronous alternators, degree of protection IP21

Options / Accessories

Transport set („hand cart“)
auto-start on mains power outage
other options available on request



Generating sets - industrial applications / stand by units

Standard

Power range	8 to 2,100 kVA / cos phi 0.8 400/230V 50Hz
Construction	Open construction on base frame or soundproofed / capsulated, suitable for mounting in a container
Characteristics	Used as the main power source when the power grid is failing or weak. These generating sets are outstandingly sturdy.
	<p>Suitable for:</p> <ul style="list-style-type: none"> ➤ industry ➤ quarries ➤ mines ➤ telecommunications ➤ production of energy for sale ➤ country houses, mountain refuges, rural hotels, etc. ➤ agricultural applications ➤ forestry applications
Engines	Diesel fuel, water or oil cooled available from a range of suppliers
Alternators	Synchronous alternators, degree of protection IP23
Options / Accessories	On request
	Eco-friendly power units, engines equipped with the most up-to-date technologies and state-of-the art exhaust gas after-treatment systems.
	Full compliance with Stage V emission standards!



Generating sets - DEUTZ series

Special designs – built to customer's specifications. Sturdy, compact & innovative

Power range **13 to 515 kVA / cos phi 0.8**
400/230V 50Hz

Construction Open construction on base frame or soundproofed / capsulated, suitable for mounting in a container

Characteristics Used as the main power source when the power grid is failing or weak.

Outstanding features:

- compactness
- highly efficient sound-proofing resulting in low noise levels
- environmentally friendly engines incorporating the most up-to-date technologies

Suitable for:

- industry
- quarries
- mines
- telecommunications
- production of energy for sale
- country houses, mountain refuges, rural hotels, etc.
- agricultural applications
- forestry applications
- military applications
- applications in ports

Engines DEUTZ – Diesel fuel, water or oil cooled

Alternators Synchronous alternators, degree of protection IP23

Options / Accessories On request

Eco-friendly power generators, engines equipped with the most up-to-date technologies and state-of-the art exhaust gas after-treatment systems.

Full compliance with Stage V emission standards!



Mobile generating sets

Customised

Power range 13 to 515 kVA / cos phi 0.8
400/230V 50Hz

Construction Soundproofed / capsulated

Characteristics Used as the main power source when the power grid is failing or weak.

Outstanding by the following features:

- compactness
- highly efficient sound-proofing resulting in low noise levels
- eco-friendly thanks to engines incorporating the most up-to-date technologies and state-of-the art exhaust gas after-treatment systems.

Suitable for:

- industry
- quarries
- mines
- telecommunications
- production of energy for sale
- country houses, mountain refuges, rural hotels, etc.
- agricultural applications
- forestry applications
- military applications
- applications in ports

Engines DEUTZ – Diesel fuel, water or oil cooled

Alternators Synchronous alternators, degree of protection IP23

Options / Accessories On request

Eco-friendly power generators, engines equipped with the most up-to-date technologies and state-of-the art exhaust gas after-treatment systems.

Full compliance with Stage V emission standards!



Generating sets for special applications

Shock-proof, EMP protected

Power range	29 to 58 kVA / cos phi 0.8 Suitable for use with ambient temperatures up to 40°C at altitudes up to 1,500 m
Construction	Open construction on base frame
Characteristics	Engine and alternator block shock-proof up to 16g, mounted on steel frame [$a_{max} = 160m/s^2$ (16g); $v_{max} = 1.6m/s$; $s_{max} = 0.25m$] spring-loaded engine starter AMOT (hydraulic surveillance system) fully EMP protected tested and approved to BZS SE 16-321 / BZS SE 16-322
Engines	DEUTZ – Diesel fuel, air cooled types F3-6L 912 / F3-6L 914
Alternators	Leroy Somer special design, degree of protection IP23



Generating sets for special applications

Shock-proof, NEMP protected

Power range	<p>10 to 500 kVA / cos phi 0.8 Suitable for use with ambient temperatures up to 40°C and at altitudes up to 2,000 m</p>
Construction	Open construction on base frame and or soundproofed / capsulated
Characteristics	<p>Engine and generator block shock-proof up to 16g when mounted on steel frame [$a_{max} = 160m/s^2$ (16g); $v_{max} = 1.6m/s$; $s_{max} = 0.25m$] certified made from stainless steel fully NEMP protected > MIL-STD-461F RS105 > IEC 61000-2-9 > MIL-STD-188-125 NEMP tested with field strength up to 100kV/m built-in heat exchanger auto start on mains power outage operation in parallel on island mode or in synchronised mode to the main</p>
Engines	<p>DEUTZ – Diesel fuel, water or air cooled types D2011 / BFM1013 / TCD 2013 / BFM1015</p>
Alternators	<p>Leroy Somer degree of protection IP23</p>
Options / Accessories	Additional sound-proofing

E DEUTZ

Accelerated development of e-skills

In off-highway applications, diesel engines cannot yet be discounted – but they are increasingly exposed to competition from other technologies. In connection with its e-skills strategy, DEUTZ has absorbed the German e-drive manufacturer Torqeedo, thus initiating the replacement of its range of high-power engines by electric motors.

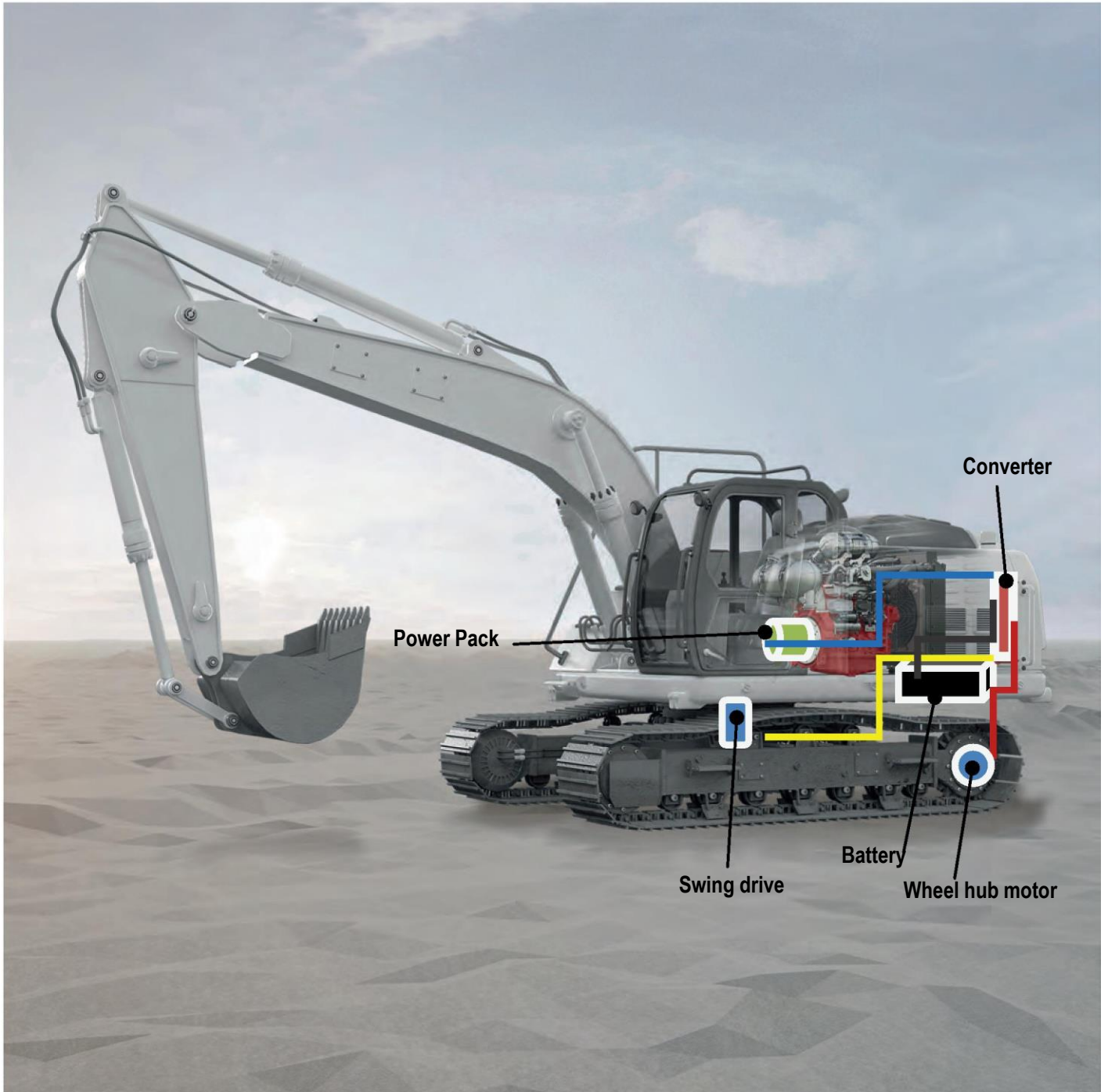
In many mobile applications, hybrid and electrically powered drive systems are now well established – as long as the masses to be displaced are small and the underlying infrastructure is implemented. Most often this does not apply to off-highway engines such as heavy agricultural and construction machinery which usually operate in non-urban areas or in infrastructural development works. Hence the number of marketable solutions is still relatively small.

DEUTZ is now launching its E-DEUTZ strategy, aimed at producing readily available electrical drives, which are both technically sophisticated and affordable.

Power ratings ranging between 0.5 and 119 kW are being developed as a priority.

DEUTZ is expecting potential advantages to arise from this technology such as downsized combustion engines with low fuel consumption. Hybrid motors in which a small thermal engine is assisted by an electric motor are capable of developing more engine power. The final purpose is to cut operating costs while meeting DEUTZ's commitment to the environment by leveraging environmentally friendly technologies for low pollution levels and CO₂ emissions.

DEUTZ





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