

www.aggretech.de



Germany's Specialist for Power Generation

AGGRETECH History ...



 **1948**

Ludwig Gründl establishes a genset maintenance and repair center in Ruhstorf, Germany.

 **1950**

Opening of the first genset assembly facility.

The first years

 **1965**

Introduction of the first Gründl family genset.



 **1978**

Joseph Gründl continues the company's history of excellence and expands the genset production.

Expanding

 **1995**

Roland Gründl creates the brand AGGRETECH and founds the AGGRETECH Stromaggregatebau GmbH.

 **2000**



Construction of the first AGGRETECH production plant.

Strengthening

 **2001**

Extension of the company's business to include laser technology and metal machining.

 **2006 - 2008**

Construction of the state-of-the-art genset production plant in Ruhstorf, encompassing Europe's most up-to-date test bench.



 **2010**

Acquisition of the DEUTZ power generation business.

Leading

... Family-owned since 1948



- Germany's largest manufacturer of emergency power gensets
- Two production sites in Germany with a combined production capacity of 8.000 gensets/ year



- Europe's largest and most up-to-date test bench (Capacity: 12.000 kVA)

AGGRETECH's Core Business Segments



Special Applications

- Tailor-made solutions for all applications
- Individual technical consultancy
- Combined heat and power
- Biogas and furnish oil gensets
- TeleCAN – the Telecom Solution

Classic Applications

- Gensets from 28 – 3.000 kVA
- Hand-wound alternator – approved for 24 hr operation
- Reliable Deutz and MTU engines
- Generating sets ready-to-rent
- Certified Quality – ISO 9001:2000

Rental

- Own rental fleet
- Individual units
- Complete power stations up to 100 MW
- Installation, operation and service

Spare Parts & Logistics

- Worldwide spare parts & logistics; one system – one contact
- Service contracts – extended warranty of up to 5 years
- 24-hours service

AGGRETECH's Core Competencies



Assembly of Gensets and Control Boxes, Logistics



Manufacturing of Components (Containers, Alternators, Exhaust Systems, Fuel Tanks), Powder Coating



Laser Cutting, Punching and Nibbling, Bending, Welding

... everything from a single source

AGGRETECH's Products are Varied and used World-Wide



AGGRETECH Products



	Deutz ADG	Deutz AGS	MTU AGS
Power Range	28 – 146 kVA	42 – 500 kVA	500 – 3120 kVA
Motor			
Cooling Type	Air	Water (Oil used 60 kVA and below)	Water
Alternator	AGGRETECH	AGGRETECH	AGGRETECH
Housing			
Container	✘	✘	✔*
Canopy	✔	✔	✔**
Open Frame	✔	✔	✔
Control Panel Applications			
Manual Start-Stop	✔	✔	✔
AMF	✔	✔	✔
Synchronisation	✘	✔	✔

* (as of 700 kVA)

** (up to 700 kVA)

Deutz ADG

Made for Extreme Environmental Conditions



Air-Cooled Diesel Gensets (ADG)

Power Range: 28 – 146 kVA

- Trouble free cooling system
 - no water, no problems
- Higher availability of power due to fewer service interruptions
 - more than 1/3 of all engine breakdowns are caused by malfunctions in the water cooling system
- Low genset maintenance expenditures
 - solid gear wheels instead of timing belt
 - modular engine design, only one type of cylinder
 - anti-freeze not necessary
 - long maintenance intervals
- Compact design
 - Air-cooled engines need approximately 1/3 less volume because cooler/ radiator is not needed
- Easy access for service activities
 - light and large PET doors



AGGRETECH is the only manufacturer of ADGs world-wide!

Deutz AGS



Power Range: 42 – 500 kVA
Open Frame and Canopy

- Water-cooled Deutz engine
- Available as Open Frame, Canopy or Containerized
- Proven reliability and efficiency
- All purpose, functional and durable
- Quality resulting from AGGRETECH's long-term experience with Deutz products
- In-house alternator production
- Bolted Baseframe
- Suitable for high ambient temperatures
- Galvanized steel sheet canopy
- **Unbeatable Price / Value Relationship**





Power Range: 500 – 3120 kVA

Open Frame, Canopy and Container

- MTU engines provide necessary reliability for higher power range (500 kVA +)
- German engine technology resulting in low fuel consumption and durability
- Canopy available between 500 and 700 kVA
- Customization available between 700 and 3.120 kVA
- Galvanized steel sheet canopy
- Bolted Baseframe
- In-house alternator production



Rental

Single Units

Own rental fleet for:

- Outdoor Events
- Road works
- Construction sites
- Sporting venues
- Fairground rides
- Concerts



Power Plants

- Modular design – 0.5 MW power cubes powered by MTU engines
- Best fuel efficiency – savings of up to 9.5%
- Complete power plant design, installation operation and service
- Current project: 50 MW power plant in Dhaka, Bangladesh



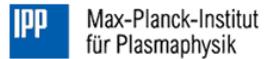
References



Bayerische
Staatsoper



SIEMENS



QUELLE.

ARD¹



References: Emergency Power for Construction Projects



World Financial Center (Shanghai, China)

Performance: 4 x 2.700 kVA

- Isolated parallel operation
- Emergency power supply for entire building
- Powered by MTU 20V 4000 engines



Jebel Ali (Dubai)

Performance: 6 x 2.700, 2 x 2.900 kVA

- Emergency power application for extension power plant Jebel Ali
- Powered by MTU 20V 4000 engines

References: Power plant in Bangladesh



Power Plant (Bangladesh, Dhaka)

Performance: 100 x 600 kVA
(total 60.000 kVA)

- Continuous power operation
- Installation, commissioning and operation by AGGRETECH
- Step-up transformers and MU-switchgear to 32 KV
- Complete fuel supply system
- Permanent service and maintenance by AGGRETECH professionals

Solutions for Oil & Gas Industry Power Generation



Aggretech provides:

- Customized solutions for the Oil & Gas Industry in accordance with current standards and regulations
- Proven capability to service the Oil & Gas Industry
- Modular gensets that allow for easy transportation and on-site installation



Aggretech can make even the most logistically complex installations a reality

References: Oil & Gas Industry



Streicher / DrillTec (Netherlands)

Performance: 10 x 1MW

- Power supply of a natural gas exploration field
Powered by MTU Series 2000 engines and AGGRETECH alternator
- **Modular design (double floor) for easy assembly and fast installation**



Linde / SKANGAS (Norway)

Performance: 500 kVA

- 500 kVA diesel generating set for emergency power supply of LNG (Liquified Natural Gas) base load plant
- Containerised application for “plug and play” onsite

References: Oil & Gas Industry



Streicher / Seawell (Norway)

Performance: 3 x 1.500 kVA

- Three 1.500 kVA modular gensets (in 40-foot containers) for offshore platforms in North Sea
- Powered by MTU 12V 4000 engines (specifically designed for offshore applications)
- Gensets meet NORSOK standards and are suitable for operation in ATEX zone IIB T3
- Designed to be operated in -20° to + 40°C and are seawater-cooled
- Transportation / installation simplified by dividing into separate modules and assembling on-site



Streicher / DrillTec (Netherlands)

Performance: 4 x 1 MW

- Complete power supply of shiftable onshore-rig
- Powered by MTU Series 2000 engines and AGGRETECH alternator