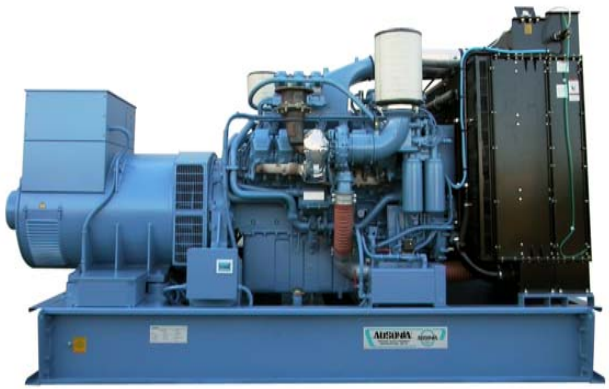
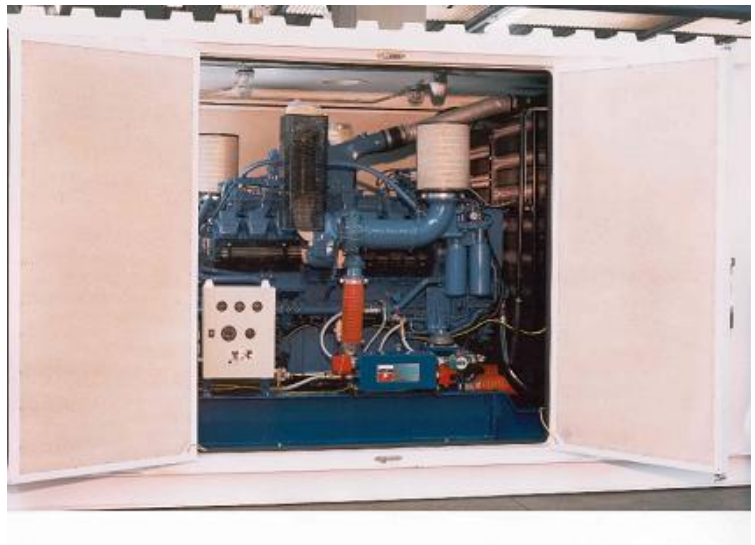
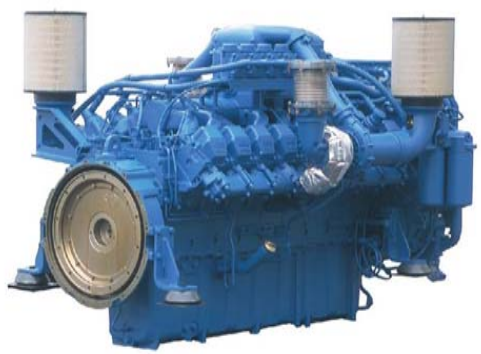
MTU/DDC
Stationary Power Generation
Series 2000 Engines

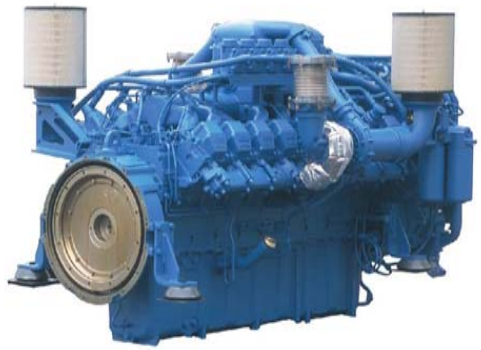
MTU/DDC Stationary Power Generation Series 2000 Engines







MTU/DDC Stationary Power Generation Series 2000 Engines



Cylinder Configurations: **12 / 16 / 18V**

Ratings: **452 to 1250 kW**

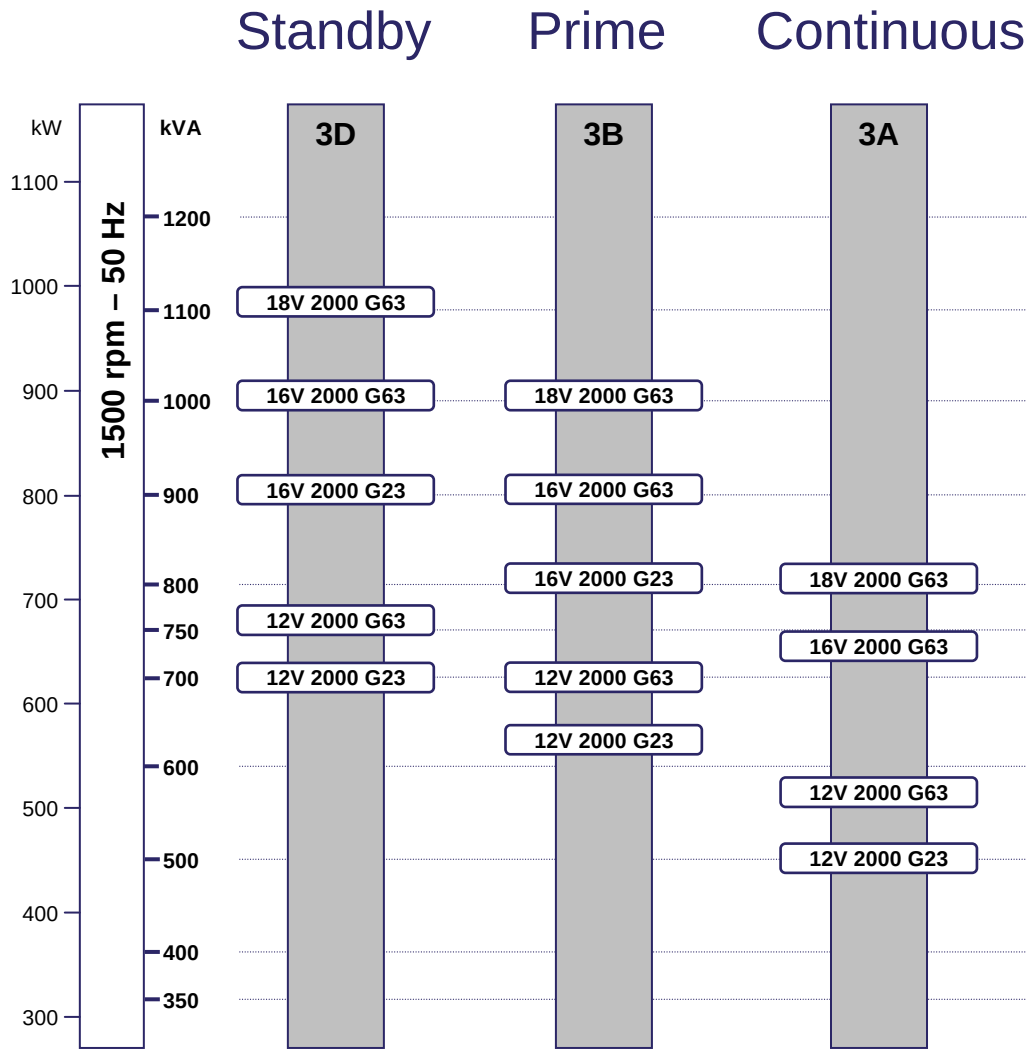
Speeds: **1500 & 1800 rpm**

Switchable 1500 – 1800 rpm

Optimizations: **FCO / EPA Tier 1 / TAL**

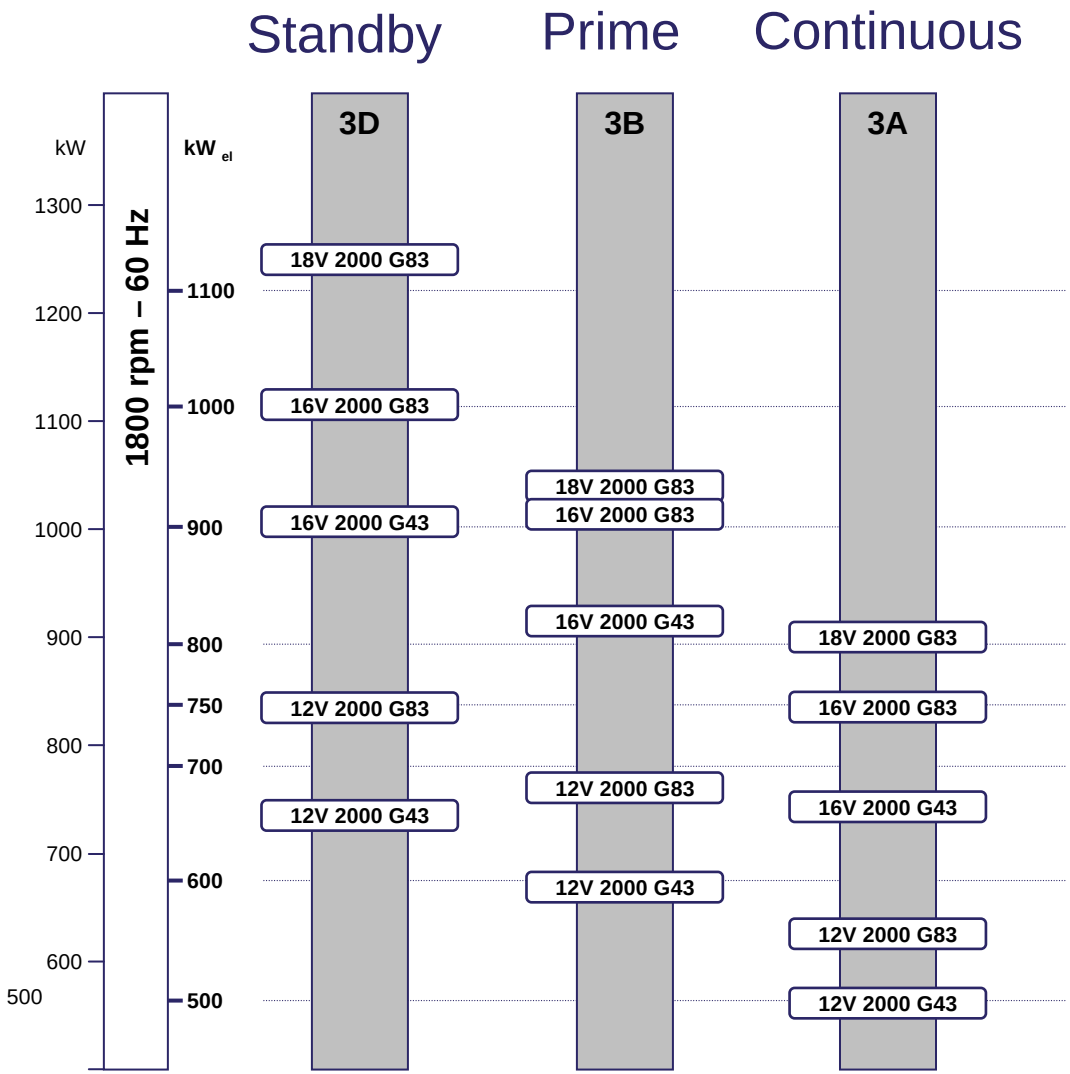
MTU/DDC Stationary Power Generation Series 2000 Engines

Power Rating 50 Hz



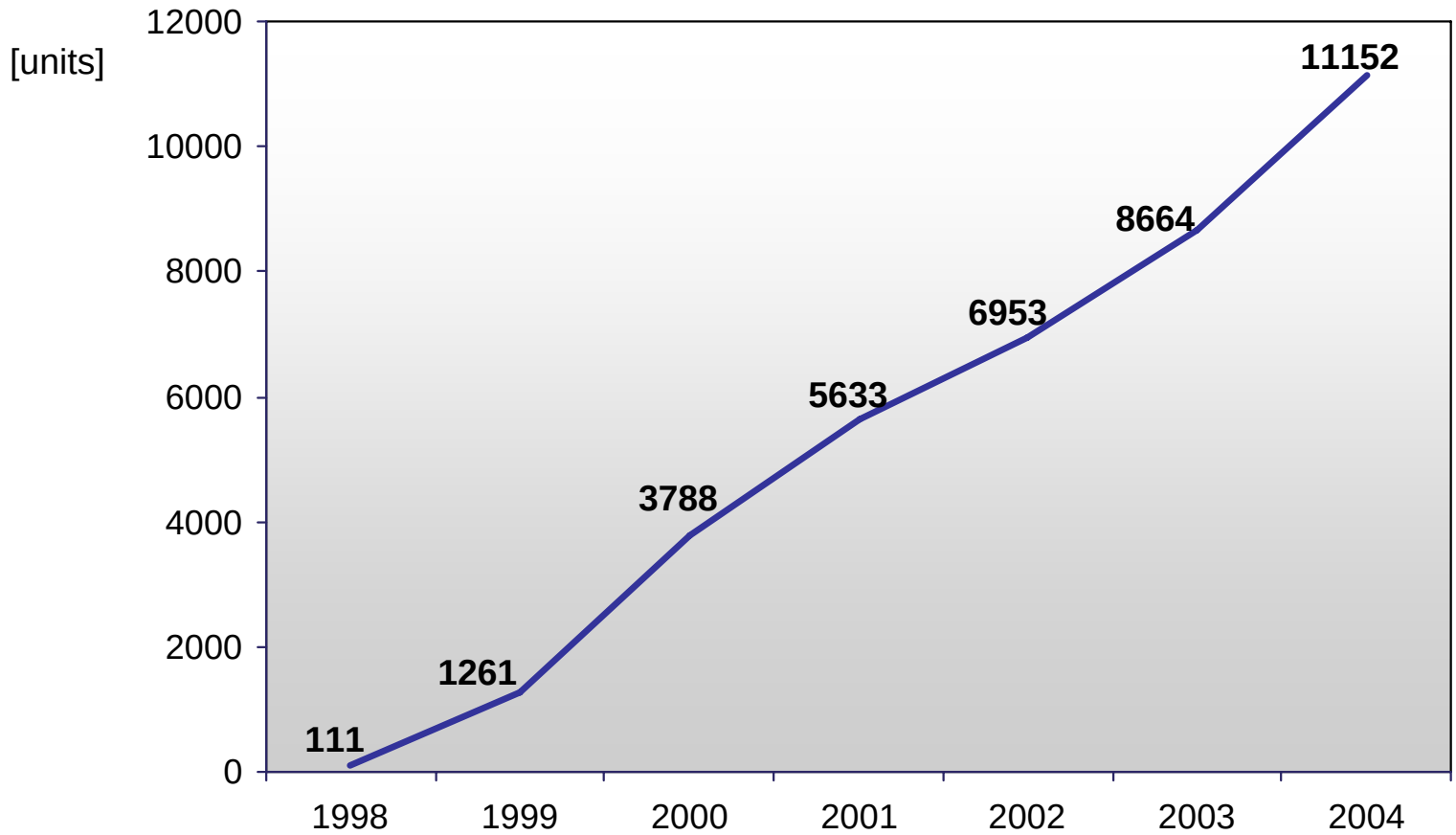
MTU/DDC Stationary Power Generation Series 2000 Engines

Power Rating 60 Hz



MTU/DDC Stationary Power Generation Series 2000 Engines

Number of delivered Series 2000 Engines for G-Drive Application (MTU + DDC)



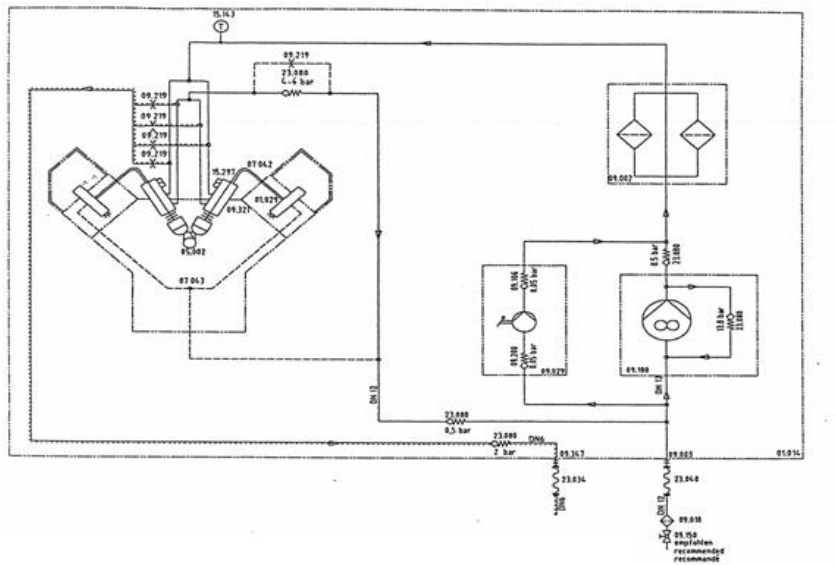
MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Features

Closed Fuel System

- **No fuel return line**
- **Only a vent line between the engine and fuel tank**
- **Very low increase of fuel temperature in the fuel tank**

\+ Easy installation

\+ No need for fuel cooler



MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Features

Air-to-Air Charge Air Cooling

- **Complete set with fan, radiator and pipe work**
- **Very compact design**

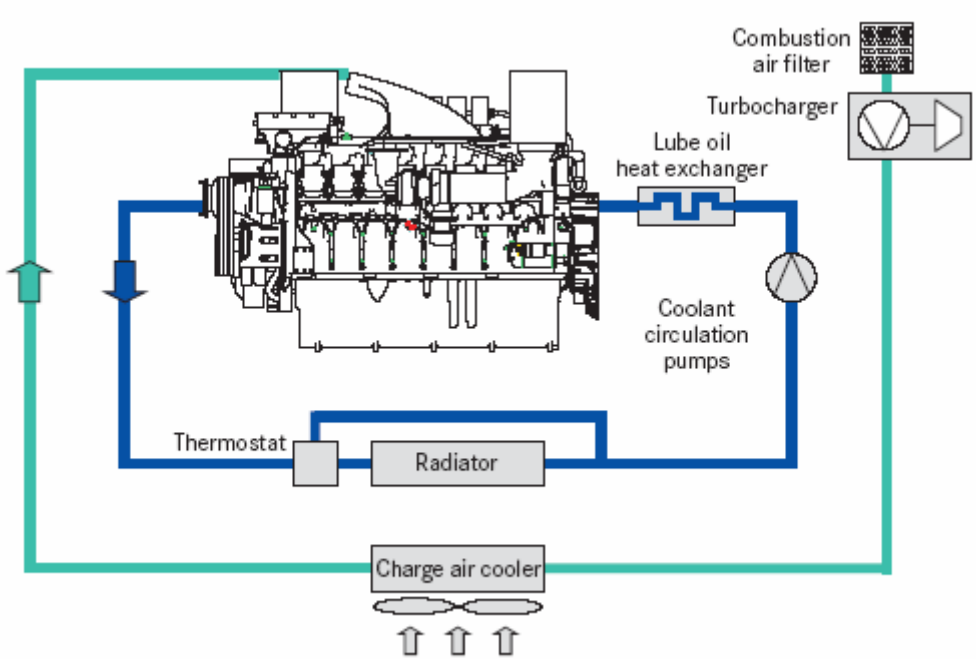
+ Quick and simple installation

+ Less engineering

+ Optimizes system

+ Pre-designed Interface

+ Radiator available for different ambient temperatures



MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Features

Water-to-Air Charge Air Cooling

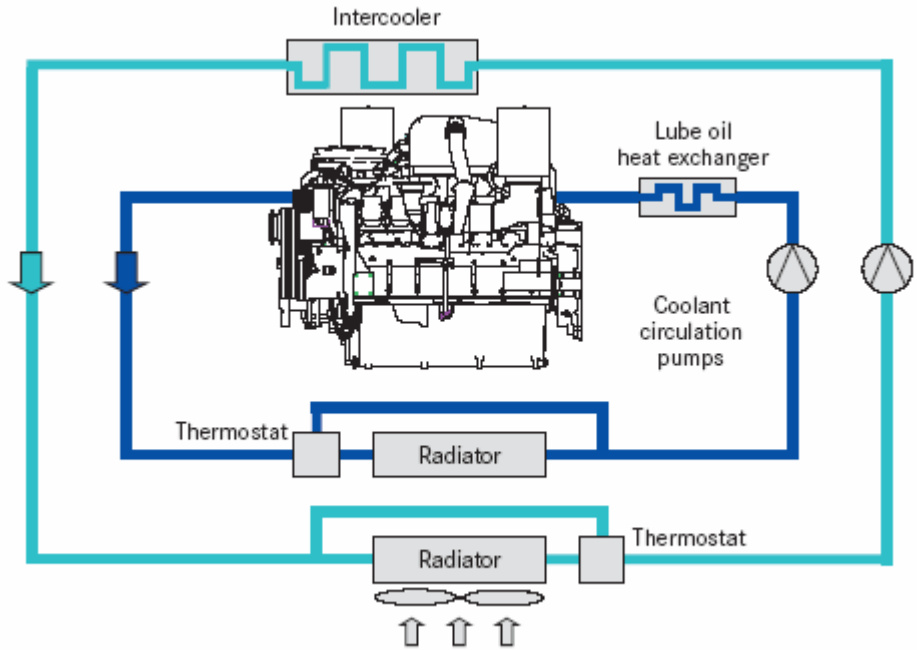
- **SCCC dual cooling circuit**

  (Split circuit charge air coolin
- **With engine built heat exchanger (charge air Circuit)**
- **The option for remote cooling system**

+ High flexibility in Installation

Mechanic / electric driven radiator

Remote installed radiator / heat exchanger

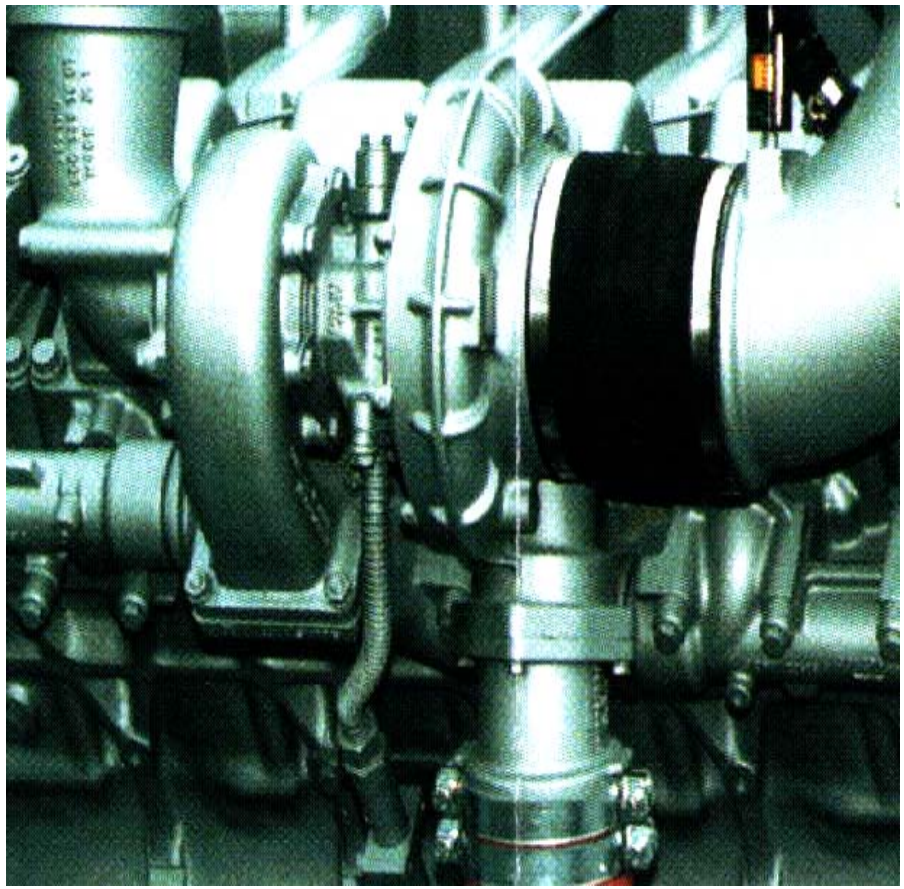


MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Features

Exhaust Gas System

- **Two highly efficiency turbocharger**
- **Pulse charging**
- **Short exhaust pipes**

+ **Optimum load acceptance**
+ **Vertical exhaust outlet**
+ **Easy to connect to external exhaust system**

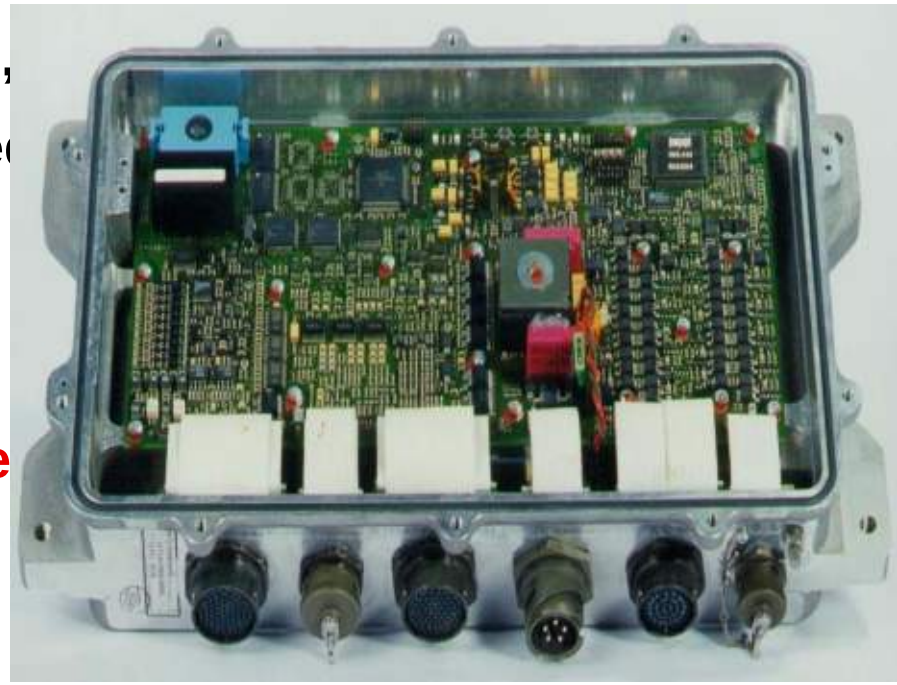


MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Features

MDEC Electonic System

Electronic System for governing, monitoring and control integrate to the engine.

- **+ Fully integrated engine mounted System (ECU, Sensors, Wiring)**
- **+ Easy to integrate to the gense controller**
- **+ Flexibility (analog, digital, Can-Bus)**
- **+ „plug and start“**



MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Features

Accessories

Wide range of accessories available:

- **Various starting systems**
- **Various fuel main and pre-filter**
- **Oil interval pre-lubrication pumps**
- **Exhaust gas bellows**
- **Preheating systems**
- **Engine resilient mounts**
- **Peripheral interface modules**

etc. - etc. – etc.

\+ Easy installation

\+ Original approved parts from one supplier

MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Features

Technical Benefits

- **Constant power available up to 40 degC / 400 m**
- **Low fuel consumption (Prime power 100% load only 194 g/kWh)**
- **Fulfills Emission Standards**
  - **EPA for all 60 Hz ratings**
  - **TA-Luft for 50 Hz rating in 3B application**
  - **Japanese Standard**
- **Excellent load acceptance**
  - **Load step >60 % recovery time < 2 sec**
  - **100 % load acceptance according NFPA 110**

MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Documentation

Available Technical Documentation

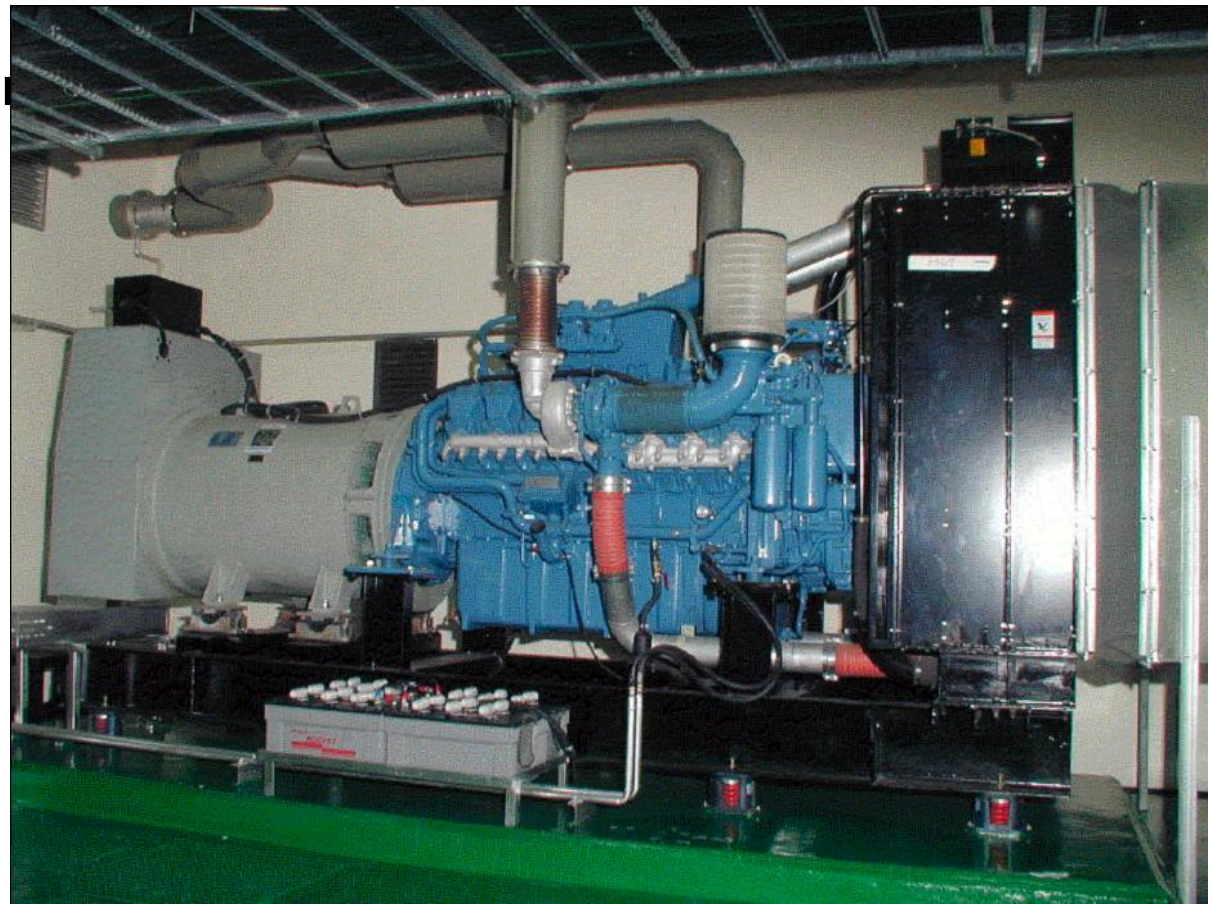
1. **Technical Sales Documentation S2000 – CD/MTU extranet**
2. **Installation guidelines engines/generator sets**
3. **Detailed price list with power rating overview, detailed ratings, scope of supply, options**
4. **Service documentation for each engine**

Deutsch / English
Edition: May 2005

DDC / MTU Diesel Engines
12V / 16V / 18V 2000 G23 – G83
Stationary Power Generation

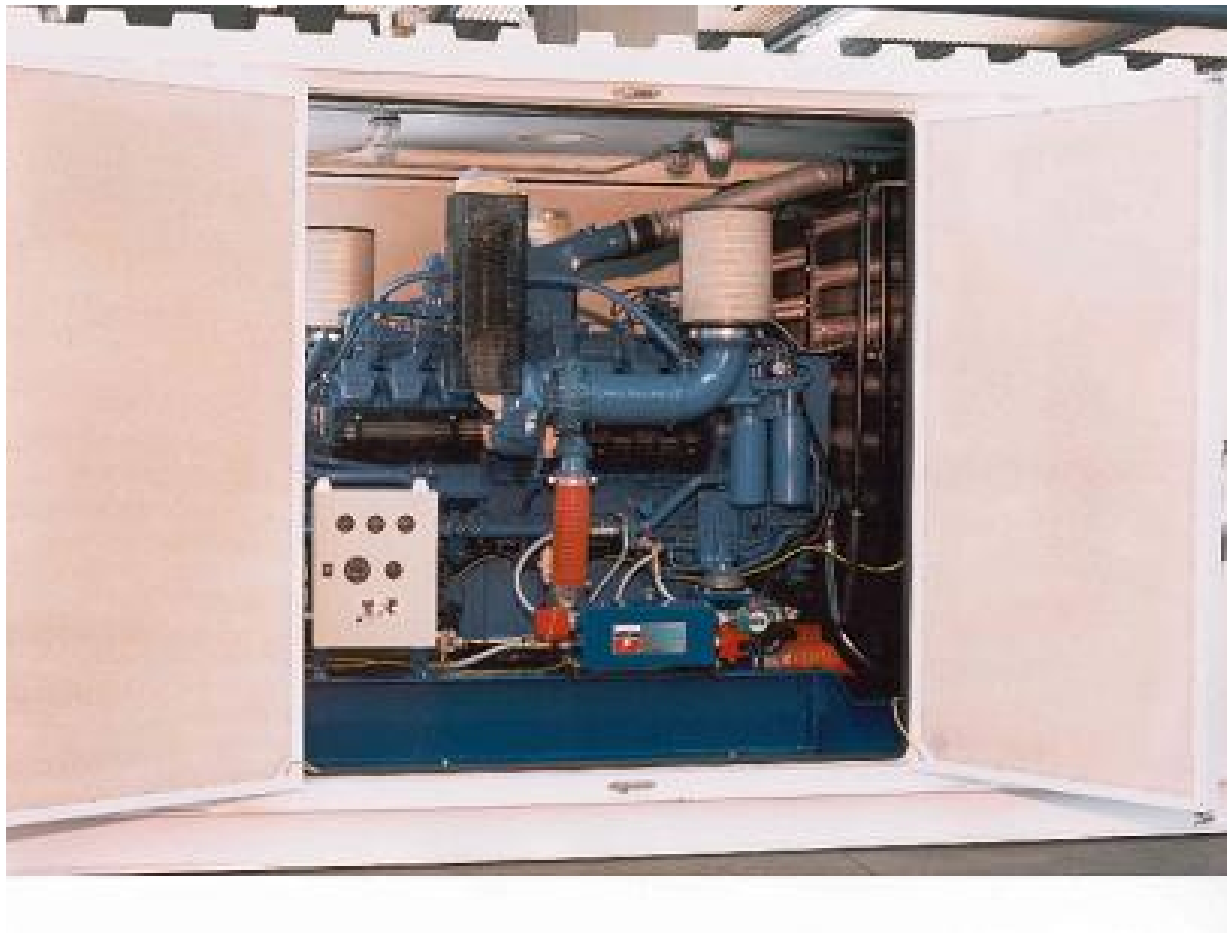
MTU/DDC Stationary Power Generation Series 2000 Engines

16V2000G63
Continious Operatio
Indonesia



MTU/DDC Stationary Power Generation Series 2000 Engines

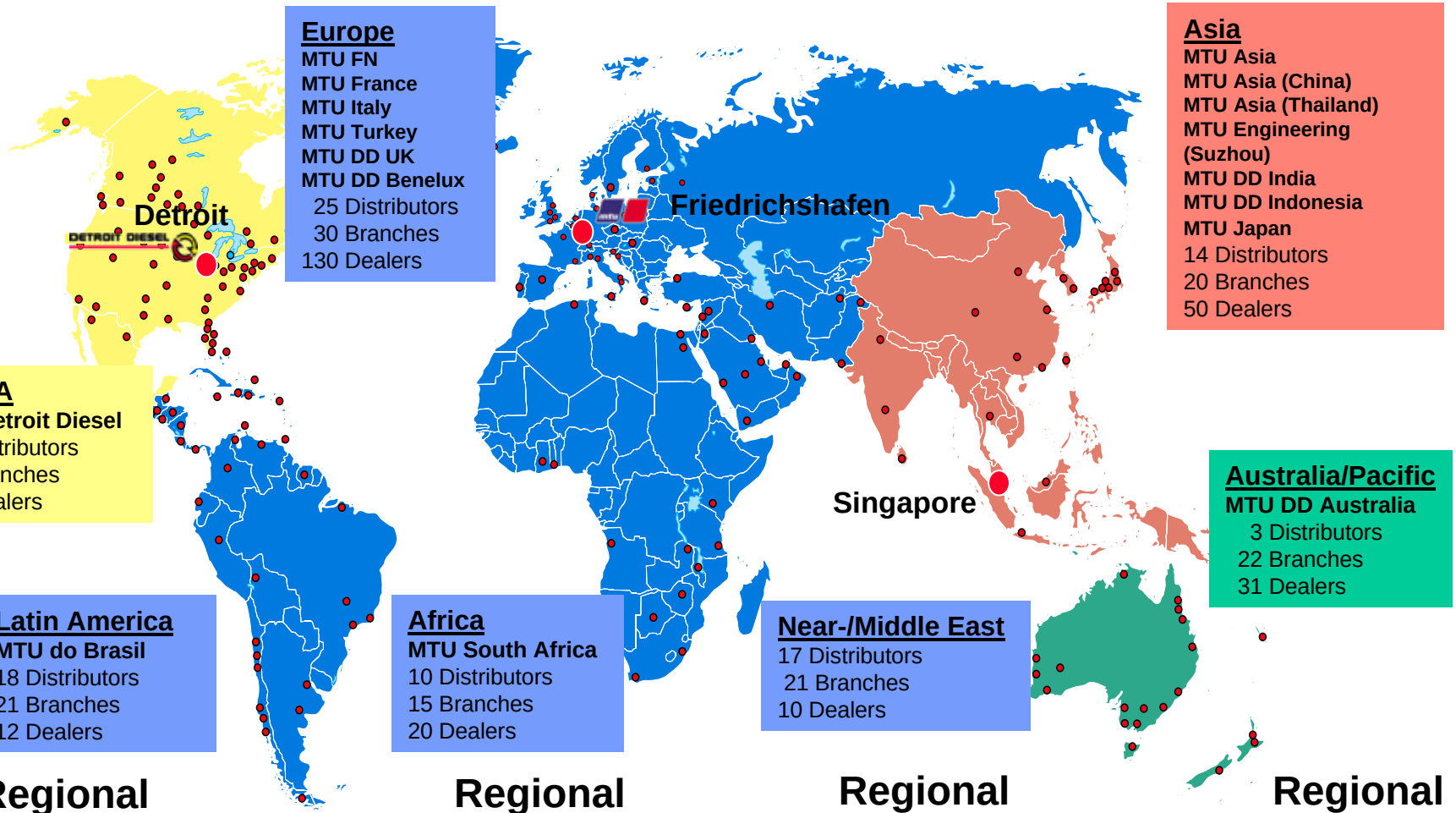
16V2000G63
Container Gen Set
Italia



MTU/DDC Stationary Power Generation Series 2000 Engines

Virtus Genset with 12V2000G63

DaimlerChrysler Off-Highway Worldwide Sales Organization



Europe
MTU FN
MTU France
MTU Italy
MTU Turkey
MTU DD UK
MTU DD Benelux
25 Distributors
30 Branches
130 Dealers

Asia
MTU Asia
MTU Asia (China)
MTU Asia (Thailand)
MTU Engineering (Suzhou)
MTU DD India
MTU DD Indonesia
MTU Japan
14 Distributors
20 Branches
50 Dealers

NAFTA
MTU Detroit Diesel
29 Distributors
160 Branches
416 Dealers

Australia/Pacific
MTU DD Australia
3 Distributors
22 Branches
31 Dealers

Latin America
MTU do Brasil
18 Distributors
21 Branches
12 Dealers

Africa
MTU South Africa
10 Distributors
15 Branches
20 Dealers

Near-/Middle East
17 Distributors
21 Branches
10 Dealers

Regional Center 3

Regional Center 1

Regional Center 2

Regional Center 4

Worldwide 1100 Points of Contact with 130 Distributors in 130 Countries for Sales & Service

Thank you
for your attention

MTU/DDC Stationary Power Generation Series 2000 Engines – Technical Services

Available Technical Services

- **Torsional vibration calculation**
- **Noise calculations**
- **Calculation of pipe works – air intake / exhaust / coolant / fuel**
- **Load acceptance calculations**
- **Installation checks**
- **Life cycle cost analysis**

DaimlerChrysler Off-Highway Product Support & Services

Tools and Spare Parts- Service Parts Inventory Recommendations

Workshop Planning, Testbench Installation, Turn-key plants Engine Data Management

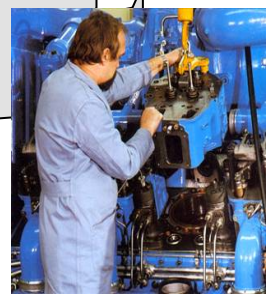
Technical Product Support Maintenance Personnel

Service Concepts Maintenance Contracts

Customer Training

Analysis of Reliability, Availability, Maintainability, Safety (RAMS) and LCC

Technical Publications Information Service Configuration Management



Factory Overhaul Modernizations