

| Standard Equipment       |  |
|--------------------------|--|
| Starting System          | Electric starter motor 24 V  |
| Auxiliary PTO            | Charging generator, 140A, 28V, 2 pole  |
| Oil System               | Gear driven lube oil pump, lube-oil multi-stage filter with diverter valve, lube-oil heat exchanger, handpump for oil extraction   |
| Fuel System              | Fuel feed pump, fuel hand pump, fuel main filter with diverter valve, on-engine fuel oil cooler, individual HP injection pumps, jacked HP fuel lines, injection nozzles (PLN system), flame proof hose lines, leak-off fuel tank level monitored |
| Cooling System           | Coolant-to-raw water plate core heat exchanger, self priming centrifugal raw water pump, gear driven coolant circulation pump  |
| Combustion Air System    | Sequential turbocharging with 2 watercooled exhaust-gas turbochargers, on-engine set of combustion-air filters   |
| Exhaust System           | Triple-walled, liquid-cooled, on-engine exhaust manifolds, 2 exhaust bellows horizontal discharge  |
| Mounting System          | Resilient mounts at free end   |
| Engine Management System | Engine and gearbox control and monitoring system (MDEC)  |

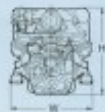
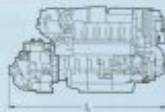
| Optional Equipment          |  |
|-----------------------------|--|
| Auxiliary PTO               | Bilgepump, on-engine PTOs  |
| Oil System                  | Oil replenishment system   |
| Fuel System                 | Fuel pre-filter  |
| Cooling System              | Integrated seawater gearbox piping   |
| Exhaust System              | 2 exhaust bellows vertical discharge   |
| Mounting System             | Resilient mounts at driving end  |
| Monitoring / Control System | Blue Line, MCS-5, RCS-5  |
| Power Transmission          | Torsionally resilient coupling   |
| Gearbox Options             | Reverse reduction gearbox, el. actuated, gearbox mounts, trolling mode for dead-slow propulsion, free auxiliary PTO, hydraulic pump drives |

Power definition according ISO 3046  
 Inlets air temperature 25°C / Raw water temperature 25°C  
 Inlets air depression 18 mbar / Exhaust back pressure 30 mbar  
 Barometric pressure 1020 mbar  
 Power reduction at 45°C/113°F: 4.0%  
 MCR and Tier 2 certified

| Dimensions and Masses (incl. gearbox) |          |             |              |
|---------------------------------------|----------|-------------|--------------|
| Engine Model                          |          | 12V 2000    | 16V 2000     |
| Length [L]                            | mm (in)  | 2305 (90.7) | 2940 (115.7) |
| Width [W]                             | mm (in)  | 1400 (55.1) | 1400 (55.1)  |
| Height [H]                            | mm (in)  | 1230 (48.4) | 1290 (50.8)  |
| Mass [dry]                            | kg (lbs) | 3120 (6878) | 3870 (8554)  |

Specifications are subject to change without notice.  
 All dimensions are approximate. For complete information refer to installation drawing.  
 For further information consult your MTU or Detroit Diesel distributor/dealer or any other authorized DaimlerChrysler representative.

#### Dimensions and Masses



12V 2000

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