

DE60 C Hybrid

Modernization of GMEINDER DE500 C

GMEINDER
LOKOMOTIVEN



The modernised DE60 C is a robust switch engine for heavy shunting operation. The electric power transmission with three independently controlled traction motors allows the optimal utilization of adhesion.

Power is supplied by a diesel generator and a lithium-ion battery set. This way, even zero-emission operation is possible in workshops. The installed power electronics are of modular design with standardised components for traction and auxiliary systems. This enables us to ensure maximum availability of the locomotive.

Diesel-electric locomotives by other manufactures may be modernised in the same way.

Technical data

Length over buffers	10,280 mm
Width	3,080 mm
Height	4,350 mm
Total weight	67 t \pm 3%
Axle load	22.5 t \pm 3%
Gauge	1,435 mm
Axle arrangement	0-6-0
Rated power diesel engine	354 kW
Rated power battery	350 kW
Tractive power	435 kW (at wheel rim)
Starting tractive effort	200 kN
Maximum speed	60 km/h
Minimum continuous speed	< 1.0 km/h
Vehicle gauge	EBO G2
Operational stocks	1,900 l diesel fuel 500 kg sand

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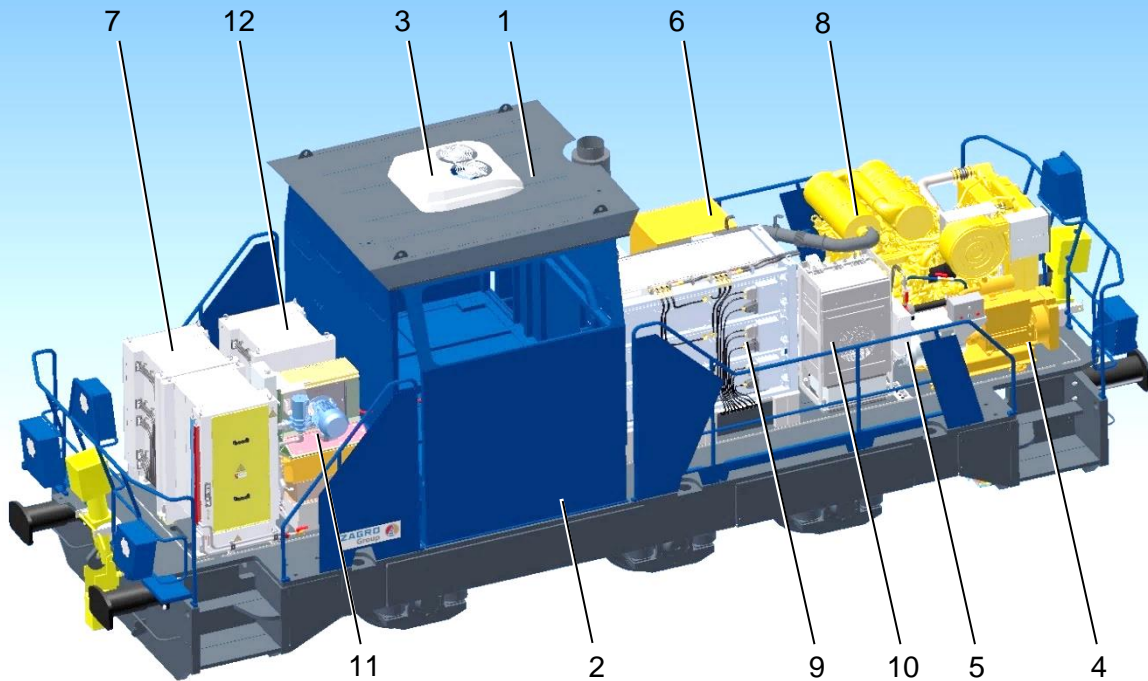
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ZAGRO
Group 



Main characteristics

- 2 energy sources (Lithium-ion battery system an CATERPILLAR diesel genset C13)
- Locomotive control (hardware) by Selectron System AG according to DIN EN 50155, modular construction, standardised components
- Locomotive control (software) by GMEINDER LOKOMOTIVEN according to DIN EN 50128
- Power electronics by Strukton Rolling Stock
- Zero-emission operation in hall areas possible
- Automatic shunting coupler RK900 on both sides
- Wheel flange lubrication
- Radio remote control
- LED headlight and illumination

Legend

1. Driver's cab
2. Fuel tank
3. Air conditioning
4. Compressor
5. Protective resistor
6. Brake panel
7. Power electronics
8. Diesel genset
9. Traction battery system
10. Battery air conditioning
11. Cooling system
12. SchaltAuxiliary cubicle

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Traction / Brake Effort Diagram

