MTU powerline PAU Engine for new locomotives or repowering with Series 4000 R41/R43/R04

MTU powerline PAU Traction for repowering of diesel-electric locomotives

24V battery or MTU CaPoS starter system

Peripheral engine components
- Fuel pump
- Cooling fan
- Coolant level switch

Starter motor
Alternator

Series 4000 R41

MDEC

MTU amplifier
Generator excitation

Series 4000 R43/R04

ADEC

MTU Voltage transformer + current transformer

PAU Engine

PAU Traction

MTU CaPoS starter system

Vehicle control system

Cab

Starter motor
Alternator

24V battery or MTU CaPoS starter system

POM

Traction generator

MTU = Advanced Diesel Engine Control
MDEC = MTU Diesel Engine Control
PAU = Power Automation Unit
POM = Power Output Module