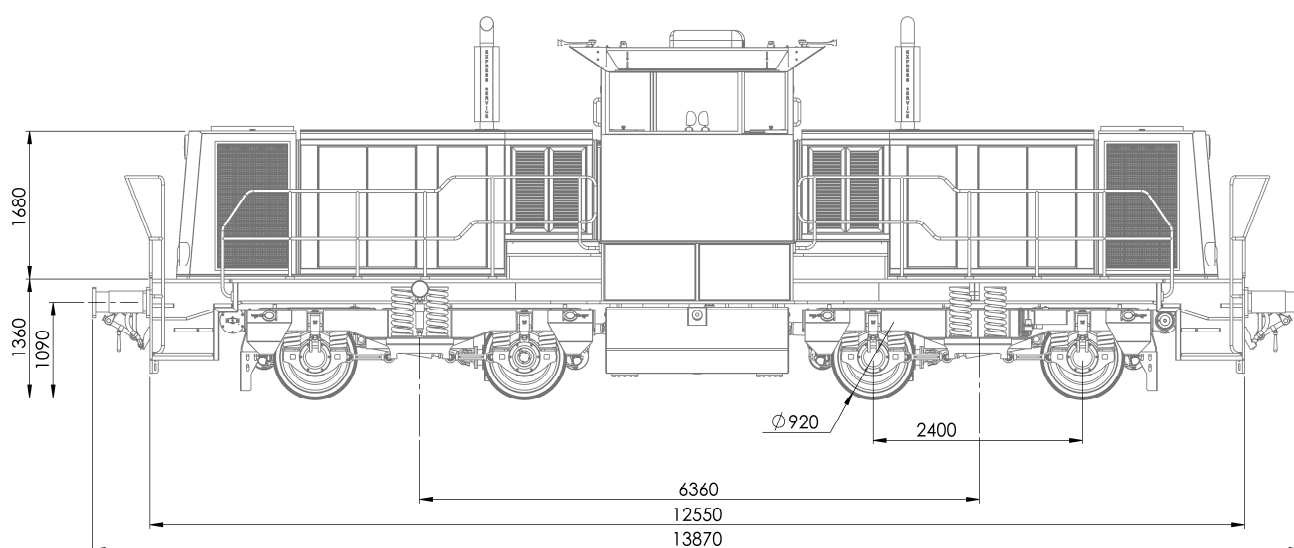


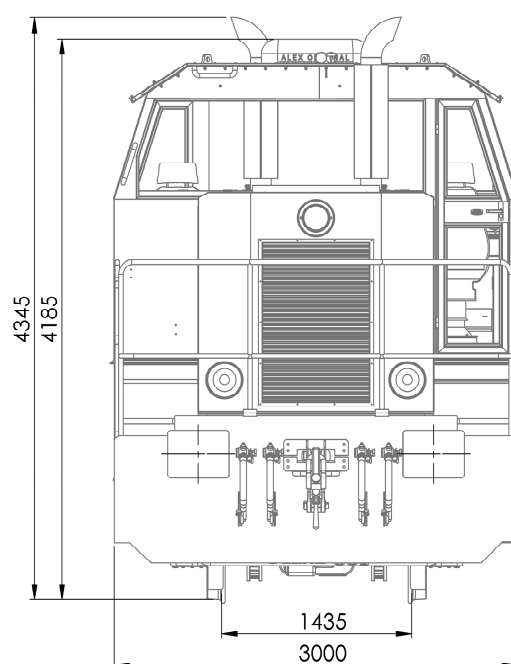


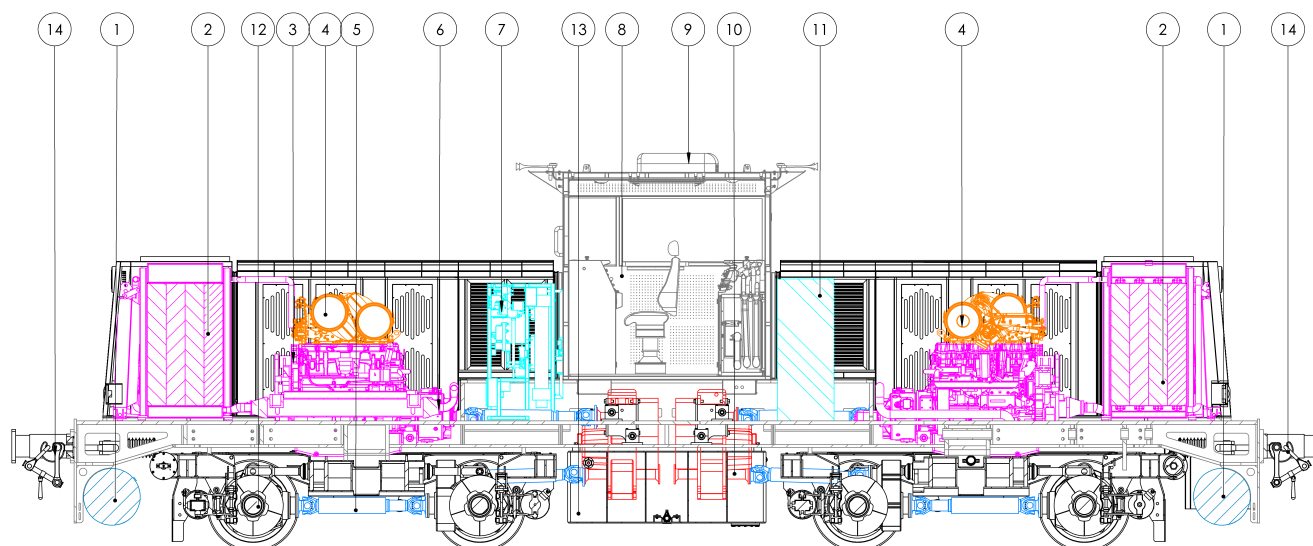
Diesel hydraulic locomotive MDD5 is intended for shunting service. The parameters of the locomotive are optimized for heavy operation. The undercarriage comprises two double-axle bogies with cardan shaft drive of all wheelsets. The locomotive is supplied with two drive groups. Each drive group comprises Caterpillar Diesel engine, Dana Spicer transmission and Gmeinder axle gears. MDD5 is symmetric type. The superstructure includes most of the auxiliary drives, engine cooling units, air generating system and auxiliary electrical cabinets.



Parameters of MDD5

Track gauge	1 435 mm
Number of powered axles	4
Wheelset arrangement	B' - B'
UIC Gauge	UIC505-1
Maximum operating speed	60 km/h
Minimum continuous speed	4 km/h
Minimum curve radius	80m
Number of engines	2
Engine type	Diesel – CAT C18 ACERT
Power	480kW, Tier 4,
Total power	960kW
Nominal weight	72t
Axle load	18t
Compressors air output	4000l/min
Air tanks volume	1000l
Fuel tanks volume	1900l
Maximum towing capacity	267kN
Climate class	-25 to +42°C
Brake type	Disk





Pos.	Designation	Pos.	Designation
1	Air tanks	8	Cabin
2	Cooling unit and compressor compartment	9	Air conditioning
3	Diesel engine	10	Transmission
4	Aftertreatment system	11	Auxiliary electrical cabinet
5	Cardan shafts	12	Wheelset
6	Torque converter	13	Fuel tanks
7	Air brake panel	14	Buffer and towing device



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