



EffiShunter 1000 represents the pinnacle of the current development of CZ LOKO. It is designed both for operation on industrial sidings in the most demanding conditions and for line service.

For these purposes, it may be equipped with ETCS. Approval according to the internationally recognized TSI certificate guarantees the maximum possible interoperability in the countries of the European Union.

Parameters

Track gauge	1,435 mm/1,520 mm
Complies with	TSI
Undercarriage arrangement	B'o B'o
Maximum operating speed	100 km/h
Minimum curve radius	80 m
Line class	B1
Transverse passage	1
Transmission of powerelectric	AC/AC
Diesel engine	CAT C32
EU Stage	V
Rated output	895 kW
Maximum traction force	262 kN
Nominal weight	80 t
Compressor output	140–252 m³/h
Fuel tank volume	4,200 l
Climate class	-40–+40°C
Length over buffers	16,400 mm
Height	4,280 mm
Width	3,060 mm

Benefits

High reliability and low operating costs.

Individually controlled power transfer of traction motors.

Environmentally-friendly operation meeting STAGE V.

Use of unified solutions on a single platform with full compatibility with other CZ LOKO products.

Passive safety elements with spacious platforms ensuring operator safety and high comfort.

Extended service intervals and the option of individualized maintenance.



ČD Cargo – master-slave mode

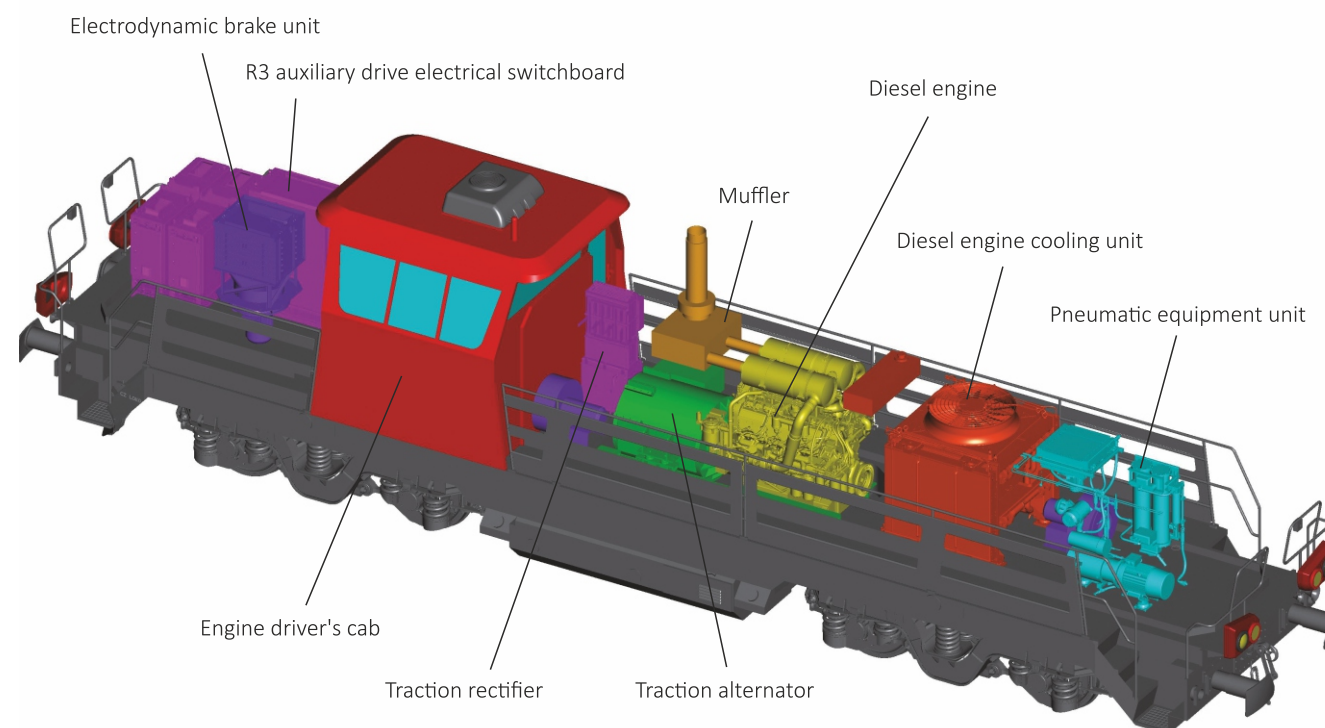


Class 744.1/EffiShunter 1000 is designed as a hood unit type with a turret cab for the engine driver. The undercarriage of the locomotive comprises a pair of double-axle bogies with individual drive of all wheelsets. The drive unit consists of a Caterpillar C32 diesel engine meeting the STAGE V emission limit and a Siemens traction alternator. The power transfer to the powered wheelset itself is AC/AC. The front hood contains a block of auxiliary drives, the diesel engine cooling hood and the genset hood. The rear hood contains electrical switchboards and an electro-dynamic brake block.



Transport to Italian clients

Elements layout



Ferrovie Adriatico Sangritana



Rail Traction Company



Mercitalia Shunting and Terminal



SŽ- Tovorni promet

Load table

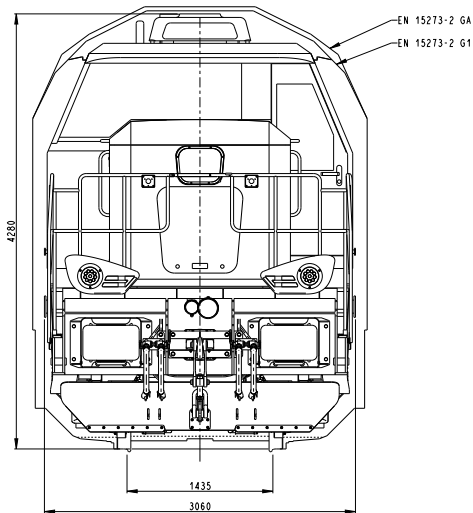
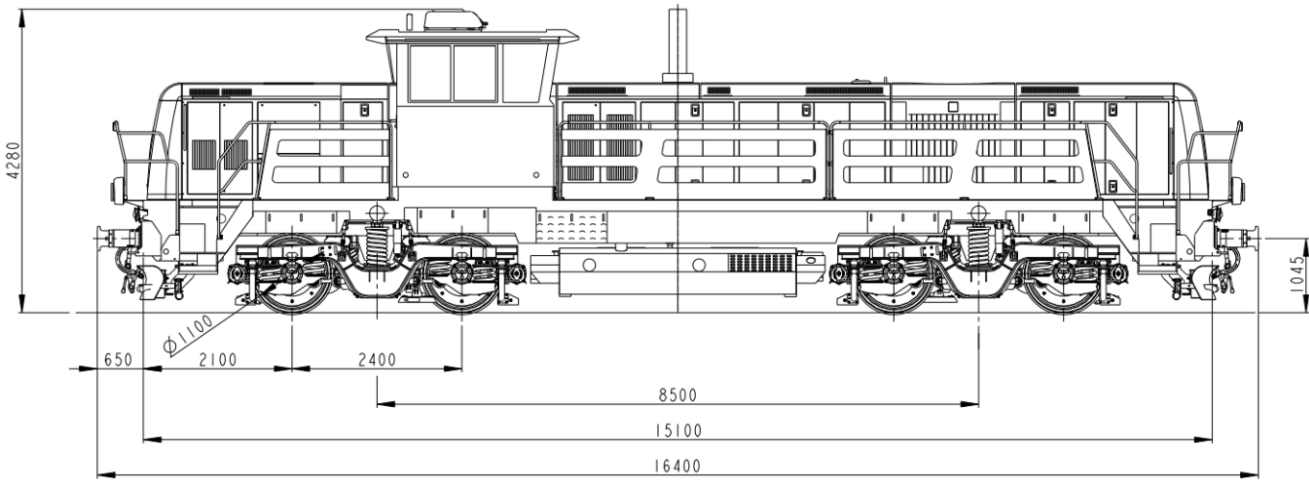
Legend:
X - continuous operation
X - short-term operation

Load type: T4 (loaded 4-axle freight wagons)																		Speed (km/h)				Train weights apply to a straight track without curves																	
a[%]	Load weight [t]																																						
	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	3150	3300	3450	3600	3750	3900	4050	4200	4350	4500	4650	4800	4950	5100	5250				
0	96	93	86	81	76	71	67	63	60	57	55	53	51	48,7	46,9	45,4	43,9	42,5	41,2	39,9	38,8	37,7	36,6	35,6	34,7	33,8	32,9	32,1	31,3	30,7	30,0	29,3	28,7	28,0	27,5				
2	95	94,6	75,3	66,2	59,3	53,6	48,9	45	41,6	38,6	36	33,7	31,6	29,9	28,2	26,9	25,6	24,3	23,3	22,4	21,5	20,6	19,7	18,9	18,1	17,4	16,8	16,3	15,8	15,3	14,7	14,3	13,9	13,4	13,1				
4	89,2	75,7	62,6	53,1	46,1	40,6	36,1	32,5	29,6	27,1	25,1	23,3	21,8	20,4	19,1	17,8	16,8	16	15,1	14,4	13,7	13,1	12,5	12	11,5	11	10,4	9,9	9,4	8,9	8,3	7,8	-	-	-				
6	83,9	65,4	52,1	43,1	36,6	31,6	27,8	25	22,6	20,6	18,8	17,1	16	14,9	13,9	13	12,3	11,6	10,9	10,1	9,4	8,7	8	-	-	-	-	-	-	-	-	-	-	-	-				
8	78,6	56,8	44,1	35,7	29,9	25,8	22,7	20,1	17,9	16,2	14,8	13,6	12,6	11,7	10,7	9,8	8,9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
10	71,1	49,7	37,8	30,2	25,2	21,7	18,8	16,5	14,8	13,3	12,2	11,1	9,9	8,8	7,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
12	64,7	44	32,8	26,2	21,9	18,4	16	14	12,5	11,2	9,9	8,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
14	59	39,2	29	23,1	19	16	13,8	12,2	10,7	9,2	7,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
16	54	35,2	26	20,6	16,7	14,1	12,2	10,5	8,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
18	49,7	31,8	23,5	18,4	15	12,7	10,8	8,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
20	45,9	29,3	21,5	16,6	13,5	11,4	9,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
22	42,7	27	19,7	15,2	12,4	10,1	7,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
24	39,6	25	18	14	11,3	8,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
26	37,2	23,3	16,7	12,9	10,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
28	34,8	21,9	15,6	12	9,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
30	32,7	20,5	14,5	11,1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
32	30,9	19,2	13,6	10,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
34	29,4	18	12,8	9,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
36	27,8	17	12,1	8,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
38	26,6	16,2	11,4	7,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
40	25,4	15,4	10,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

15.1 km/h, 2,850 t
20.4 km/h, 2,100 t
32.5 km/h, 1,200 t



Drawing



Outline

