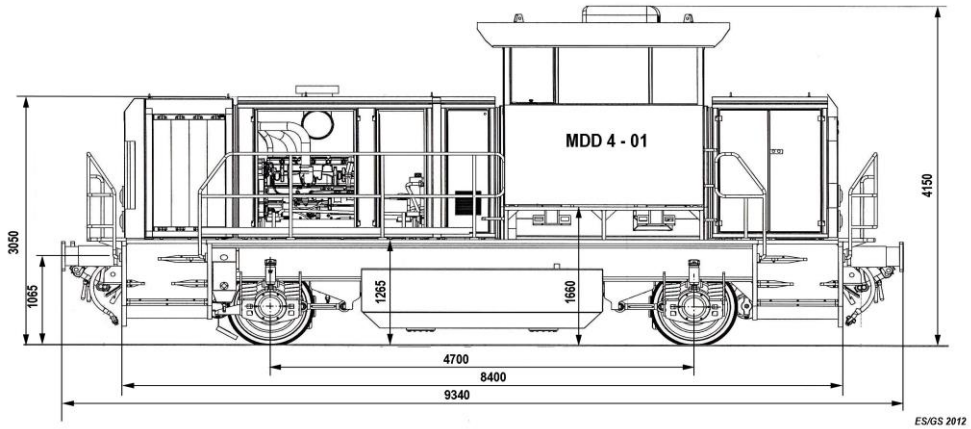
Page 1 / 2	Transmission Type	Gauge / Wheel Arrangement	Loco No
	hydromechanical	*1435mm / B'*	

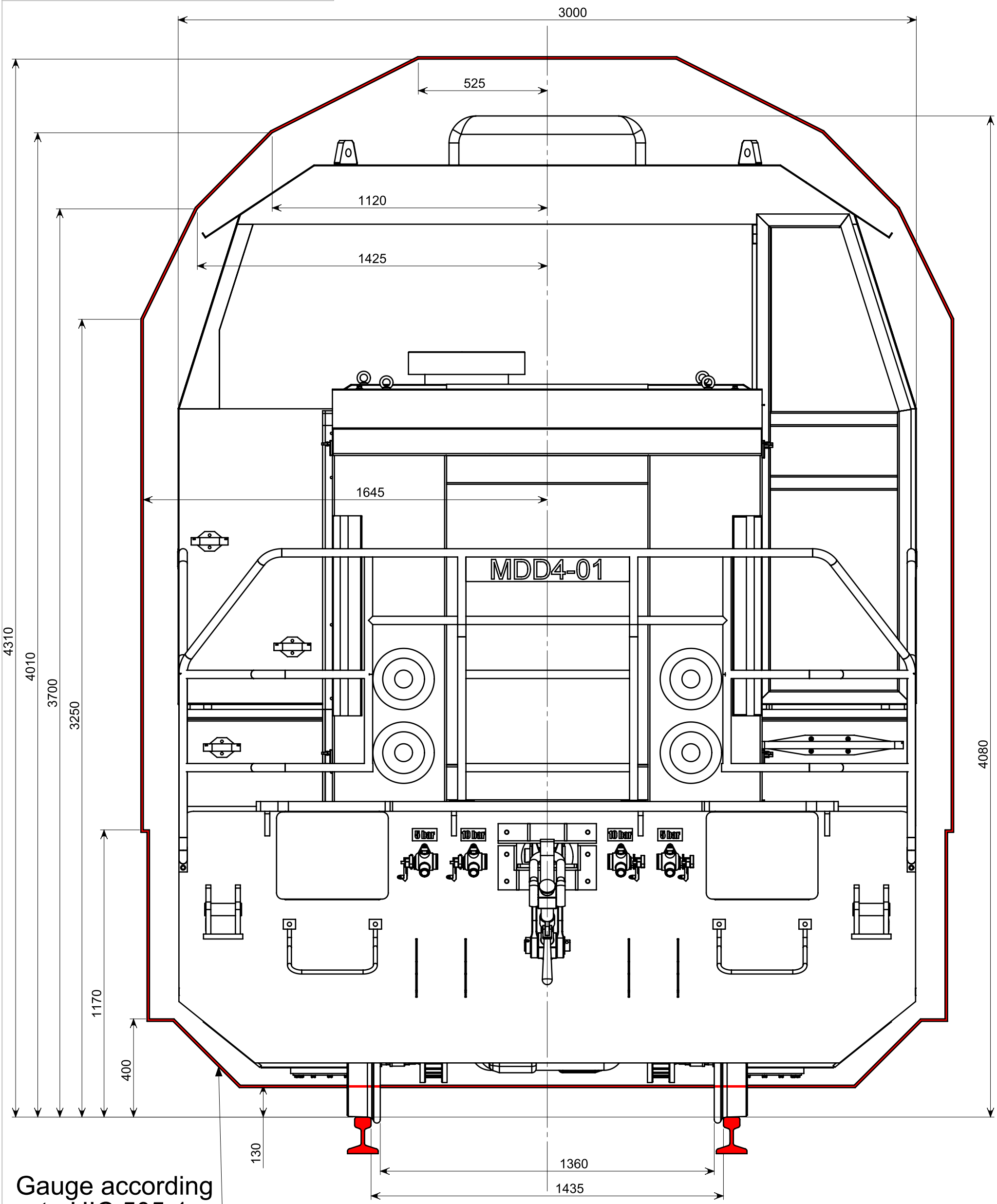


скица Експрес Сервиз / ВК *Height 4150 mm* *Overall Width 3000 mm* ***Gauge UIC 505-1***

Weight , Axle Load and Technical Data

20,5 t		20,5 t	d_1 = 920 mm
W l = 40,0 t	Weight Empty	*G adh. = 402 kN*	Service Load
W serv. = 41,0 t	Service Weight (2/3)	*M serv./L = 4,4 t/m*	Linear Weight
W serv. = 42,0 t	Max.Weight (3/3)	*Q axle* =196 kN	Axle Load

No		Value	No		Value
1	Top Speed Capability	***60 km/h***	10	Control- *Electrical*	*24 V DC*
	Minimum Continuous Speed	***5 km/h***	11	Remote Control /Multiple Control Syst.	***yes/ no***
2	Starting Tractive Effort	***133,5 kN***	12	Vigilance Control	*yes*
	Tractive Effort by Max. Speed	***22,3 kN***	13	Shunting Radio / Train Radio	*no / no*
3	Diesel Engine *Caterpillar Type*	***C15 CERT ™***	14	Speed Recorder Type *electronic*	*Unicontrols*
	- Gross Power	***403 kW***	15	Fire Alarm System/Fire-Extinguishing Syst	*Option*
	- Maximum Engine Speed	***2100 min^{-1}***	16	Engine Fuel Capacity	***1900 l***
	- Minimum Engine Speed	***700 min^{-1}***		Sand Capacity	***250 kg***
	- Governor	***automat.***	17	Engine Lubricating Oil	***69 l***
	- Weight	***1,47 t***		Gear Box and Axle Gear Box Lube Oil	110 + 2x15 l
4	Transmission System	***hydromechanical***		Engine Cooling Water	***200 l***
	-Transmission *DANA Spiser 8000 Series-4 Speed*		18	Minimum Curve Radius	***80 m***
	-Power	***403 kW***	19	Pressure Vessels for Air	***2 x 350 l / 77 l***
	-Gear Ratio	***4,43/2,46/1,40/0,78***	20	Air Brake	*Disc Brake*
5	Axle Gear Box- *Gmeinder*	*GGM 200 EV/818A*		-Type *Wabtec MZT*	**MH-Lst 1-P+ep**
	-Gear Ratio	*8,182*		-Distributor Valve *Wabtec MZT*	*Lst 1*
6	Auxiliary Generator	*24 V DC / 100 A*		-Brake Effort Capability **P**	***41 t***
7	Starter	***24 V DC***		-Driver's Automatic Air Brake Valves	*EPM 5*
8	Battery - *Type*	***Pb***		-Driver's Direct Air Brake Valves	*KEP 21*
	-Voltage / Capacity	24 V /280 Ah		-Brake Zylinder Unit	***2 + 2***
9	Air Compressor:	*Gardner Denver*	21	Parking Brake	*Both Axles*
	-Transmission	*hydrostatic*	22	Manifacturer	
	- Capacity	*2000 l/min,10 bar*	23	Built Year	



Gauge according to UIC 505-1

				Scale	Weight
				1:15	40 t
				Sheet	
A3	Name	Sign.	Date	1	Gauge according to UIC 505-1
Drawn	Penchev		21.8.2012 r.		
Checked	Raychev		21.8.2012 r.		
T.Control	Kolev		21.8.2012 r.		
N.Control	Penchev		21.8.2012 r.		
Approved	Kolev		21.8.2012 r.		

Marcy International