STILL

R 07-25

R 08-20

R 07/08 Technical Data

Electric tractors/platform trucks

first in intralogistics

In accordance with VDI guidelines 2198, this specification applies to the standard model only.
Alternative tyres, mast types, ancillary equipment, etc. could result in different values.

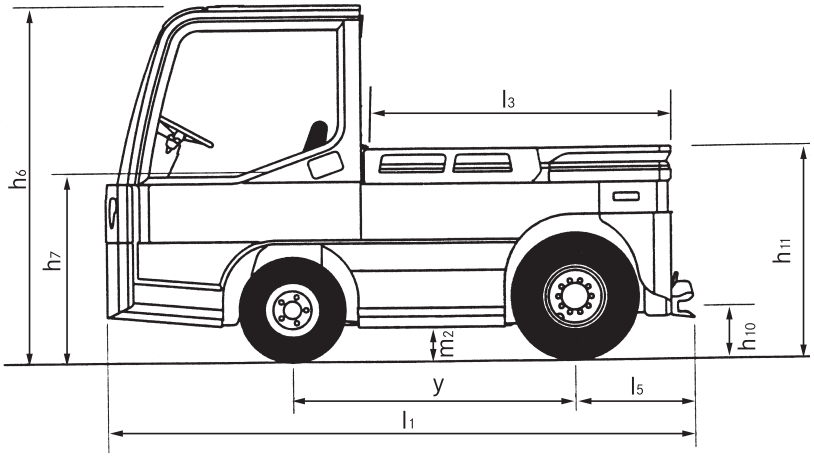
Characteristics	1.1	Manufacturer			STILL		STILL		STILL	
	1.2	Manufacturer's model designation			R 07-25		R 07-25 L		R 08-20	
	1.3	Power supply - electric, diesel, petrol, gas, mains electric			electric		electric		electric	
	1.4	Type of control - hand, pedestrian, stand-on, rider seated			rider seated		rider seated		rider seated	
	1.5	Carrying capacity/load	Q	kg	300		300		2000	
	1.5.1	Trailor load	Q	kg	25000		25000		as per diagram overleaf	
	1.7	Towing capacity	F	N	5000		5000		900	
	1.9	Wheelbase	y	mm	1465		1900		1900	
Weight	2.1	Weight		kg	3800		4800		3100	3200
	2.2	Axle loadings laden front		kg	2000		2600		2300	2100
	2.2.1	Axle loadings laden rear		kg	2100		2500		2800	3100
	2.3	Axle loadings unladen front		kg	1900		2500		1800	1800
	2.3.1	Axle loadings unladen rear		kg	1900		2300		1300	1400
Wheels | tyres	3.1	Tyres - rubber (V), superelastic (SE), pneu. (L), poly. (PE)			L/SE		L/SE		L/SE	
	3.2	Tyre size - front			6.00 R 9		6.00 R 9		6.00 R 9	
	3.3	Tyre size - rear			7.00 R 12		7.00 R 12		7.00 R 12	
	3.5	Wheels - number front (x = drive wheel)			2		2		2	
	3.5.1	Wheels - number rear (x = drive wheel)			2x		2x		2x	
	3.6	Track width - front	b_{10}	mm	1102/1112		1102/1112		1102/1112	
	3.7	Track width - rear	b_{11}	mm	1018		1018		1018	
Dimensions	4.7	Height to top of overhead guard (cabin)	h_6	mm	1820		1820		1820	
	4.8	Seat height	h_7	mm	745		745		745	
	4.12	Coupling height	h_{10}	mm	240, 295, 350, 405		240, 295, 350, 405		240, 295, 350, 405	
	4.13	Platform height unladen	h_{11}	mm	1000		1000		840	
	4.16	Platform length	l_3	mm	1520		1955		2200	2600
	4.17	Rear overhang	l_5	mm	615		615		730	1130
	4.18	Platform width	b_9	mm	1170		1170		1300	
	4.19	Overall length	l_1	mm	3045		3480		3590	3990
	4.21	Overall width	b_1	mm	1300		1300		1300	
	4.32	Ground clearance at centre of wheelbase	m_2	mm	150		150		150	
	4.35	Outer turning radius	W_a	mm	2825		3275		3275	
	4.36	Inner turning radius	b_{13}	mm	935		1095		1095	
Performance	5.1	Speed laden		km/h	11		11		15	
	5.1.1	Speed unladen		km/h	25		25		20	
	5.5	Rated drawbar pull laden		N	-		-		-	
	5.5.1	Rated drawbar pull unladen		N	5000		5000		900	
	5.6	Max. drawbar pull laden		N	-		-		-	
	5.6.1	Max. drawbar pull unladen		N	16000		16000		3500	
	5.7	Gradeability laden		%	as per diagram overleaf		as per diagram overleaf		as per diagram overleaf	
	5.7.1	Gradeability unladen		%						
	5.8	Max. gradeability laden		%						
	5.8.1	Max. gradeability unladen		%						
	5.10	Brakes			electr./hydr.		electr./hydr.		electr./hydr.	
Motors	6.1	Drive motor hourly capacity		kW	20		20		5	
	6.3	Battery equipment to DIN 43531/35/36 A, B, C, no			43536 A		43536 A		43536 A	
	6.4	Battery voltage	U	V	80		80		80	
	6.4.1	Battery capacity	K_5	Ah	460	560	700	840	240	320
	6.5	Battery weight		kg	1210	1558	1863	2178	679	858
	6.6	Energy consumption to VDI-Cycles		kWh/h	-		-		-	
Engine	7.1	Engine manufacturer			-		-		-	
	7.1.1	Type			-		-		-	
	7.2	Engine rated power to ISO 1585		kW	-		-		-	
	7.3	Rated rpm		1/min	-		-		-	
	7.4	No. of cylinders			-		-		-	
	7.4.1	No. of displacement		cm^3	-		-		-	
	7.5	Fuel consumption		l/h	-		-		-	
Other	8.1	Drive control			AC-microprocessor		AC-microprocessor		AC-microprocessor	
	8.4	Average noise peak at operator's ears		dB(A)	69		69		69	
	8.5	Trailer coupling, type/DIN			Rockinger 244		Rockinger 244		Rockinger 244	

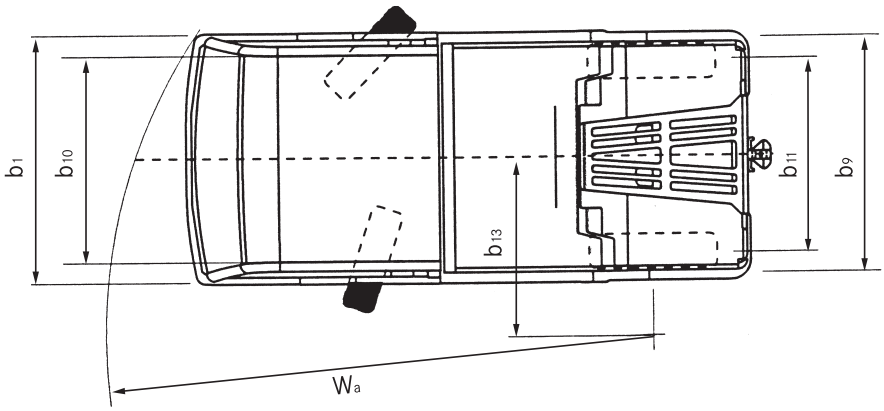
Dimensional sketch and operating data

When hauling loaded trailers that are coupled to platform or towing trucks under the most arduous of operating conditions (e. g. sloping surfaces, smooth or slippery roadways, etc.) the determining factor for trailing load assessment will not be the tractive effort developed by the towing truck, nor the carrying capacity of the relevant trailers, but rather the presence of an effective brake system eliminating the risk of accidents (i.e. by using trailers equipped with brakes of the overrun type).

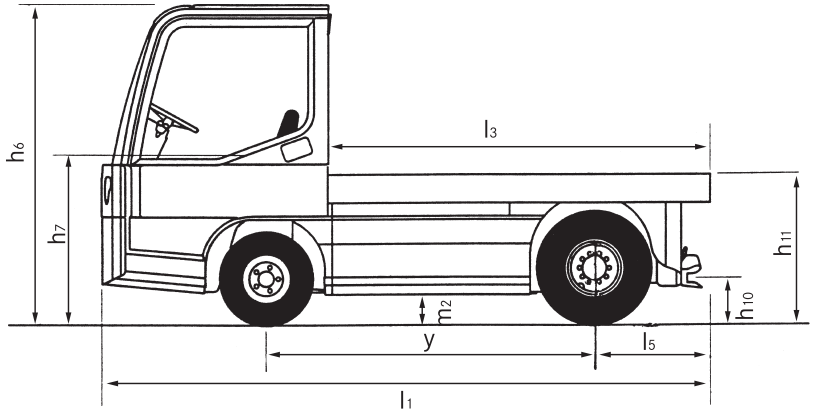
When towing trailer trains on public roads, the Road Traffic Regulations must be adhered to. The values contained in this specification and data sheet, including the performance charts, apply to tractors operating on a dry concrete surface.
Rolling resistance on level surface: 200 N/t.
Frictional coefficient for tyres: 0.80;
Height of towing bracket: 400 mm.
Tipping limit: the static load on the steered wheels is 20 % below the net weight of the tractor.

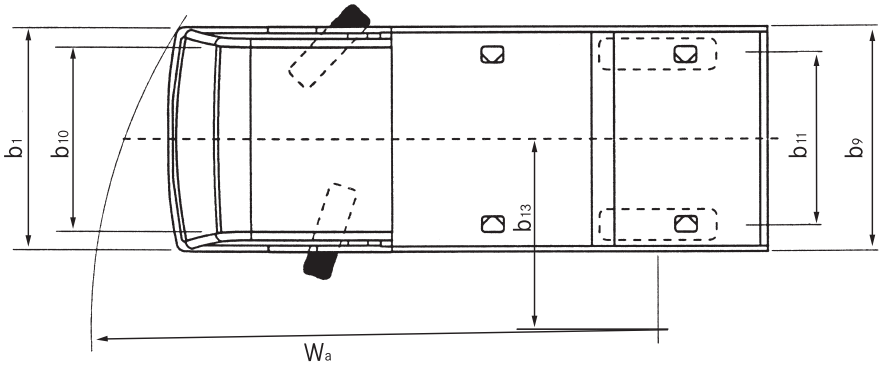
Electric Tow Tractor R 07-25





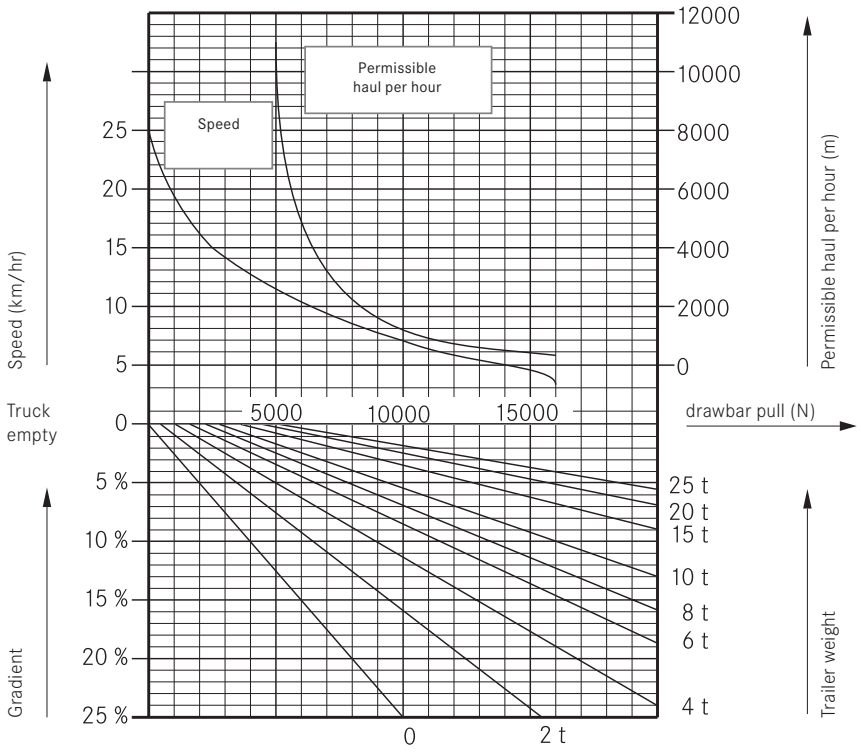
Electric Platform Truck R 08-20





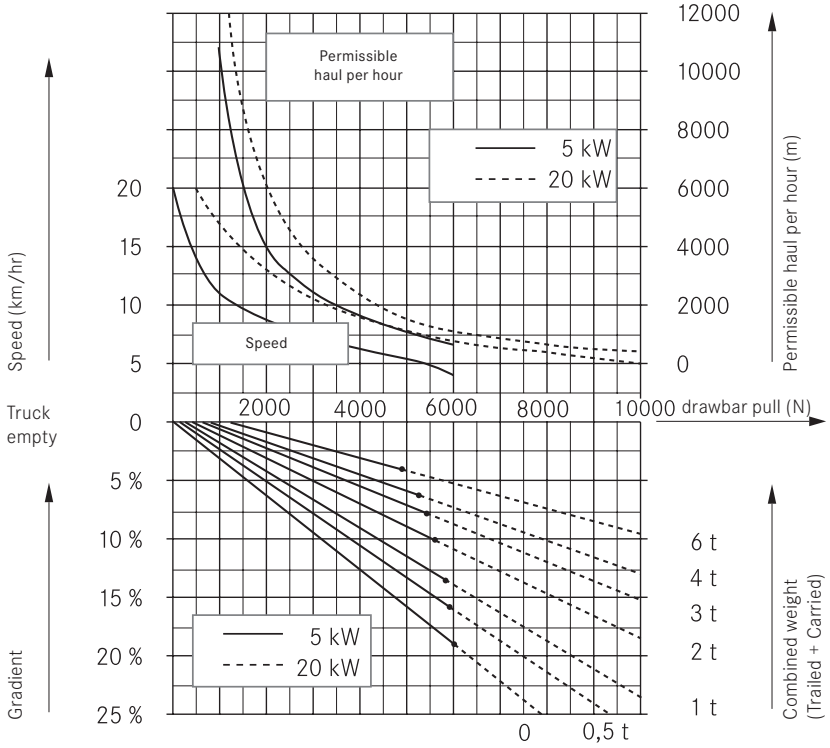
The models depicted in this brochure may contain special parts or attachments which are not supplied as standard.

Performance Chart R 07-25



The Speed/Draw Bar Pull performance of the tractor can be programmed between the two limits shown to suit the application. The permissible haul per hour is the total distance travelled, including the return journey and any downhill gradients. It is recommended that braked trailers are used for trailer loads exceeding 9 tonnes and for all trailer loads if gradients are involved.

Performance Chart R 08-20



The permissible haul per hour is the total distance travelled, including the return journey and any downhill gradients. It is recommended that braked trailers are used for all trailer loads if gradients are involved.

Drive.

- The encapsulated 80 volt three-phase drive motor from STILL gives long life and freedom from maintenance, with optimal energy utilisation.
- During braking the drive motor acts as a generator and feeds electrical energy back into the battery. This allows a longer period of work before the battery needs recharging.
- Due to the regulated drive control, the travel speed will remain constant for the same pedal position regardless of upward or downward gradients.

Battery and battery changing.

Battery changing is by means of a hoist. On the R 08-20 the battery can also be removed from the side with a low lift pallet truck.

Electrical system.

The trucks are fitted with an energy saving MOSFET controller. Drive and steering unit are linked through a CAN bus to the combi instrument. Constant checks guarantee fault-free operation.

Brakes.

- The truck has three independent braking systems.
- Disc brakes at the front and maintenance free multi-disc brakes in an oil bath at the back are actuated hydraulically with the brake pedal.
- A mechanical handbrake acts on the rear wheels.

Steering.

- The servo-steering is extremely free moving and allows fatigue-free driving.
- The sturdy steering axle gives the truck very good manoeuvrability and makes it extremely manageable.

Frame.

The flat, shock resistant chassis is specified and designed in accordance with FEM. Due to its robust steel structure it has very high resistance to distortion and high rigidity. The design prevents the accumulation of water at any point in the frame. This corrosion protection guarantees a long life.

Lighting.

- Road Traffic Act lighting system fitted as standard.
- Rear lights can be fitted at the top of the overhead guard as an option.
- Optimum rear visibility thanks to the large viewing channel of the R 07-25.

Driver's compartment.

- Automotive style foot pedal layout.
- Seat and steering column are adjustable.
- On the R 07-25 the driver has a clear view onto the tow coupling from the driving compartment.
- Convenient entry and exit and also a relaxed leg position due to the low step height, large footwell and anti-slip liner.
- Excellent all-round visibility.

Standard equipment.

- Sprung driver's seat, PVC.
- Passenger's seat, PVC.
- Pneumatic tyres.
- Work hour meter through key switch and seat switch.
- Paint RAL 2000/RAL 7021.
- Forward/reverse inching button device on the R 07-25.
- Automatic coupling, rear.
- Trailer socket

Auxiliary equipment.

- Tow coupling, front (1 x automatic or three position coupling).
- Tow coupling, rear (2 x automatic coupling, three position or automatic remote coupling).
- Cloth covered seat (with or without seat heater).
- SE tyres.
- Power supply can be extended with a 12 volt converter for auxiliary electrics.
- The R 08-20 can be customised for use in any industry by fitting additional equipment.
- Cab for the R 07-25 also available with sliding doors.

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