



ESM Technical Data

Electric stand-on forklift truck

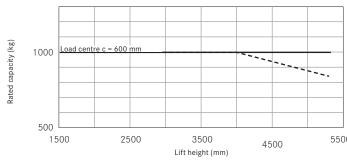


first in intralogistics

This specification sheet to VDI Guidelines 2198 only gives the technical figures for the standard truck. Different tyres, other masts, additional equipment etc. could give different figures.

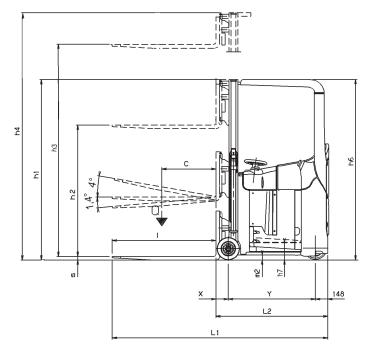
	1.1	anufacturer STILL									
cs	1.2	Manufacturer's model designation			ESM 10 Single mast	ESM 10 Single mast Container	ESM 10 HiLo mast	ESM 10 HiLo mast Container	ESM 10 Triplex mast	ESM 10 Triplex mas Container	
Characteristics	1.3	Drive: electric, diesel, petrol, LPG, mains electric				oontanioi	Elec			oontainor	
racte	1.4	Operation: manual, pedestrian, stand-on, rider seated, order picker			Stand-on						
Chai	1.5	Rated capacity	Q	kg	1000						
	1.6	Load centre	С	mm	600						
ľ	1.8	Load distance	х	mm	138-(196 ²)						
Ì	1.9	Wheel base	y	mm	966						
	2.1	Truck weight		kg	1980	1973	2083	2070	2207	2189	
s	2.2	Axle load front, with load		kg	2487	2480	2583	2570	2706	2688	
	2.2.1	Axle load rear, with load		kg	493	493	500	500	501	501	
×	2.3	Axle load front, without load		kg	723	716	819	806	942	924	
- 1	2.3.1	Axle load rear, without load		kg	1257	1257	1264	1264	1265	1265	
	3.1	Tyres: solid rubber, Superelastic (SE), pneumatic, Polyurethane					Polyur	ethane			
s	3.2	Tyres size front			250 x 80						
lass	3.3	Tyres size rear			254 x 100						
	3.5	Number of wheels front (x = driven)			2						
leel	3.5.1	Number of wheels rear (x = driven)			1x						
Š	3.6	Track width front	b10	mm	770						
	3.7	Track width rear	b11	mm							
	4.1	Tilt mast/fork carriage, forward		0	1.4						
	4.1.1	Tilt mast/fork carriage, back		0			4	1			
	4.2	Closed mast height	h1	mm	2123	2003	2178	2058	2230	2110	
	4.3	Free lift	h ₂	mm	1580	1460	1633	1513	1685	1565	
ĺ	4.4	Lift	h₃	mm	1600	1480	3520	3280	5253	4893	
[4.5	Extended mast height	h4	mm	2143	2023	4063	3823	5796	5436	
[4.7	Height over overhead guard (cabin)	h ₆	mm	2120	2000	2120	2000	2120	2000	
	4.8	Seat height/stand height	h7	mm			95/	195			
	4.19	Overall length	l1	mm		2402-(2460 ²)					
2	4.20	Length incl. fork back	I2	mm	1252-(1310 ²)						
	4.21	Overall width	b1	mm	850						
l a	4.22	Fork thickness	S	mm	40						
<u> </u>	4.22.1	Fork width	е	mm	80						
- 1	4.22.2		1	mm	1150						
	4.23						CL II. F	orm A			
1		Fork carriage DIN 15173, class/form A, B					,			610	
	4.24	Fork carriage width	b₃	mm	820	820	612	612	612	612	
	4.25	Fork carriage width External fork width	b₅	mm			612 540-(525	¹)-(584 ²)			
	4.25 4.31	Fork carriage width External fork width Ground clearance beneath mast, with load			820 63	820 63	612 540-(525 48	¹)-(584 ²) 48	612 48	48	
	4.25 4.31 4.32	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base	b5 m1 m2	mm			612 540-(525 48 5	¹)-(584 ²) 48 6			
	4.25 4.31 4.32 4.33	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide	b5 M1 M2 Ast	mm mm			612 540-(525 48 5 2600-	¹)-(584 ²) 48 6 2653 ²)			
	4.25 4.31 4.32 4.33 4.34	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long	b5 m1 m2 Ast Ast	mm mm mm			612 540-(525 48 5 2600-(2711-)	¹)-(584 ²) 48 6 2653 ²) 2767 ²)			
	4.25 4.31 4.32 4.33 4.34 4.35	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius	b5 M1 M2 Ast	mm mm mm mm mm			612 540-(525 48 5 2600- 2711- 11	¹)-(584 ²) 48 6 2653 ²) 2767 ²) 14			
	4.25 4.31 4.32 4.33 4.34 4.35 5.1	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load	b5 m1 m2 Ast Ast	mm mm mm mm mm km/h			612 540-(525 48 5 2600 2711 11	¹)-(584 ²) <u>48</u> 6 2653 ²) 2767 ²) 14 3			
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1.1	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed without load	b5 m1 m2 Ast Ast	mm mm mm mm mm km/h km/h	63	63	612 540-(525 48 5 2600-(2711-(11 8 5	48 6 2653 ²) 2767 ²) 14 8	48	48	
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1.1 5.2	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed without load Lift speed with load	b5 m1 m2 Ast Ast	mm mm mm mm km/h km/h km/h	63	63	612 540-(525 48 5 2600-(2711-(11 8 9 0.	48 6 2653 ²) 2767 ²) 14 3 0	48	48	
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1.1 5.2 5.2.1	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed without load Lift speed without load Lift speed without load	b5 m1 m2 Ast Ast	mm mm mm mm km/h km/h km/h	63	63	612 540-(525 48 5 2600-(2711-(11 11 8 9 0. 0.	48 48 6 2653 ²) 2767 ²) 14 3 0 16 26	48	48	
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1.1 5.2 5.2.1 5.3	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed with load Lift speed with load Lowering speed with load	b5 m1 m2 Ast Ast	mm mm mm mm km/h km/h km/h m/s m/s	63	63	612 540-(525 48 5 2600-(2711-(11 11 8 9 0. 0. 0. 0.	48 48 6 2653 ²) 2767 ²) 14 3 0 16 26 30	48	48	
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reriormance	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1.1 5.2 5.2.1 5.3 5.3.1 5.8 5.8.1	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed with load Lift speed with load Lift speed without load Lowering speed with load Lowering speed without load Gradeability with load	b5 m1 m2 Ast Ast	mm mm mm km/h km/h km/s m/s m/s	63	63	612 540-(525 48 5 2600-(2711-(11 11 8 9 0. 0. 0. 0. 0. 0. 8 1	48 48 6 2653 ²) 2767 ²) 14 3 0 16 26 30 30 35 5	48	48	
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1.1 5.2 5.2.1 5.3 5.3.1 5.8 5.8.1 5.10	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed with load Lift speed with load Lowering speed with load Lowering speed with load Lowering speed without load Gradeability with load Gradeability without load	b5 m1 m2 Ast Ast	mm mm mm mm km/h km/h m/s m/s m/s % %	63	63	612 540-(525 48 5 2600-(2711-(11 8 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1 Hydr,/	48 48 6 2653 ²) 2767 ²) 14 3 14 3 26 30 30 3 5 mech.	48	48	
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1.1 5.2 5.2.1 5.3 5.3.1 5.8 5.8.1 5.10 6.1	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed without load Lift speed with load Lowering speed with load Lowering speed with load Lowering speed without load Gradeability with load Gradeability without load Service brake Drive motor, performance at \$2.60 min	b5 m1 m2 Ast Ast	mm mm mm mm km/h km/h m/s m/s m/s m/s % %	63	63	612 540-(525 48 5 2600-(2711-(11 6 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 2 1 Hydr./ 2	48 48 6 2653 ²) 2767 ²) 14 3 3 16 26 30 30 30 3 5 mech. 2	48	48	
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1 5.2 5.2.1 5.3 5.3.1 5.8 5.8.1 5.8 5.8.1 5.10 6.1 6.2	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with or pallets 800 x 1200 long Turning radius Speed with load Lift speed with load Lift speed with load Lowering speed with load Lowering speed with load Gradeability with load Gradeability with load Service brake Drive motor, performance at \$2 60 min Lift motor, performance at \$3 15%	b5 m1 m2 Ast Ast	mm mm mm mm km/h km/h m/s m/s m/s % %	63	63	612 540-(525 48 5 2600-(2711-(11 6 0. 0. 0. 0. 0. 0. 5 8 1 Hydr./ 2	1)-(584 ²) 48 6 2653 ²) 2767 ²) 14 3 7 16 26 30 30 3 5 mech. 2 3	48	48	
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1 5.2 5.2.1 5.3 5.3.1 5.8 5.8 5.8 5.8 1 5.10 6.1 6.2 6.3	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with or pallets 800 x 1200 long Turning radius Speed with load Lift speed with load Lift speed with load Lowering speed with load Lowering speed without load Gradeability with load Gradeability with load Service brake Drive motor, performance at \$2 60 min Lift motor, performance at \$3 15% Battery to DIN 43531/35/36 A, B, C, no	b5 m1 m2 Ast Ast	mm mm mm km/h km/h m/s m/s m/s m/s % % % %	63	63	612 540-(525 48 5 2600-(2711-(11 6 0, 0, 0, 0, 0, 0, 0, 0, 0, 1 Hydr,/ 2 2 DIN 43	1)-(584 ²) 48 6 2653 ²) 2767 ²) 14 3 7 16 26 30 30 3 5 mech. 2 3 55	48	48	
	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1 5.2 5.2.1 5.3 5.3.1 5.8 5.8 5.8 1 5.8 5.8 1 5.10 6.1 6.2 6.3 6.4	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed with load Lift speed with load Lift speed with load Lowering speed with load Lowering speed without load Gradeability with load Gradeability without load Service brake Drive motor, performance at \$2 60 min Lift motor, performance at \$3 15% Battery to DIN 43531/35/36 A, B, C, no Battery voltage/capacity Ks	b5 m1 m2 Ast Ast	mm mm mm km/h km/h m/s m/s m/s m/s % % % % %	63	63	612 540-(525 48 5 2600-(2711-(11 1 8 9 0. 0. 0. 0. 0. 0. 0. 0. 0. 1 Hydr./ 2 2 DIN 43 24/42	1)-(584 ²) 48 6 2653 ²) 2767 ²) 14 3 16 226 300 30 3 5 mech. 2 355-B 0-465	48	48	
E-motor	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1 5.2 5.2.1 5.3.1 5.8 5.8.1 5.8.1 5.8.1 5.10 6.1 6.2 6.3 6.4 6.5	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed with load Lift speed with load Lift speed with load Lowering speed with load Lowering speed with load Gradeability with load Gradeability with load Service brake Drive motor, performance at S2 60 min Lift motor, performance at S3 15% Battery to DIN 43531/35/36 A, B, C, no Battery weight (± 5%)	b5 m1 m2 Ast Ast	mm mm mm km/h km/h m/s m/s m/s m/s % % % % % % % % % % % % % % % % % % %	63	63	612 540-(525 48 5 2600-(2711-(11 8 9 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 20. 0. 0. 20. 0. 0. 0. 0. 20. 0. 0. 20. 0. 20. 0. 20. 2	48 48 6 2653 ²) 2767 ²) 14 3 6 2767 ²) 14 30 30 30 35 55 mech. 2 3 55 9 1535-B 0-465 35	48	48	
E-motor	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1 5.2 5.2.1 5.3 5.3.1 5.8 5.8.1 5.10 6.1 6.2 6.3 6.4 6.5 6.6	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed with load Lift speed with load Lowering speed with load Lowering speed without load Gradeability with load Gradeability with load Service brake Drive motor, performance at S2 60 min Lift motor, performance at S3 15% Battery to DIN 43531/35/36 A, B, C, no Battery weight (± 5%) Energy consumption in accordance with VDI cycle	b5 m1 m2 Ast Ast	mm mm mm km/h km/h m/s m/s m/s m/s % % % % %	63	63	612 540-(525 48 5 2600-(2711-(11 8 9 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 2711-(200-(2711-(200-(2	48 48 6 2653 ²) 2767 ²) 14 30 16 226 300 33 55 mech. 2 3535-B 0-465 35 57	48	48	
E-III0101	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1 5.2 5.2.1 5.3 5.3.1 5.8.1 5.10 6.1 6.2 6.3 6.4 6.5 6.6 8.1	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed with load Lift speed with load Lift speed with load Lowering speed with load Lowering speed with load Gradeability with load Gradeability with load Service brake Drive motor, performance at S2 60 min Lift motor, performance at S3 15% Battery to DIN 43531/35/36 A, B, C, no Battery voltage/capacity K₅ Battery weight (± 5%) Energy consumption in accordance with VDI cycle Drive control	b5 m1 m2 Ast Ast	mm mm mm km/h km/h m/s m/s m/s m/s m/s % % % % W kW kW kW kW	63	63	612 540-(525 48 5 2600-(2711-(11 1 8 9 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	48 48 6 2653 ²) 2767 ²) 14 30 16 226 300 35 55 mech. 2 3535-B 0-465 35 57 57	48	48	
aneous E-motor Performance	4.25 4.31 4.32 4.33 4.34 4.35 5.1 5.1 5.2 5.2.1 5.3 5.3.1 5.8 5.8.1 5.10 6.1 6.2 6.3 6.4 6.5 6.6	Fork carriage width External fork width Ground clearance beneath mast, with load Ground clearance centre wheel base Aisle width for pallets 1000 x 1200 wide Aisle width for pallets 800 x 1200 long Turning radius Speed with load Speed with load Lift speed with load Lowering speed with load Lowering speed without load Gradeability with load Gradeability with load Service brake Drive motor, performance at S2 60 min Lift motor, performance at S3 15% Battery to DIN 43531/35/36 A, B, C, no Battery weight (± 5%) Energy consumption in accordance with VDI cycle	b5 m1 m2 Ast Ast	mm mm mm km/h km/h m/s m/s m/s m/s % % % % % % % % % % % % % % % % % % %	63	63	612 540-(525 48 5 2600-(2711-(11 8 9 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 2711-(200-(2711-(200-(2	1)-(584 ²) 48 6 2653 ²) 2767 ²) 14 3 16 226 300 33 5 meech. 2 45 355 90 4535-B 0-465 35 57 14 14 15 16 17 18 19 100	48	48	

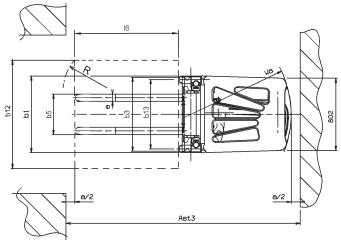
Rated basic capacity ESM 10 single mast, HiLo and triplex mast



¹ With optional tilting fork carriage.
² With integrated side shift.

- with standard forks, --- with integrated side shift and standard forks. 5500 Varying truck equipment may give different values.





ESM – the agile all-round talent.

The ESM electric stand-on forklift truck is an all-round talent for every internal transport job and stacking application. The ESM is especially well suited for narrow aisles and for transport jobs with frequent changes of the travel direction. With a load centre of 600 mm the ESM easily lifts 1,000 kg loads up to a height of 5,300 mm. The perfect harmony of safety, performance, comfort, compactness, dependability and service friendliness make it the ideal helper in the warehouse, for example to supply production lines, to transport goods in narrow aisles, in block storage or to load and unload lorries.

Special characteristics:

- Ergonomically designed workspace for the operator with many storage compartments.
- Progressive, digital control system for driving and lifting movements.
- Very compact chassis with rounded edges.
- Mast, chassis and overhead guard are connected to form a structural element for maximum mechanical stability.
- The controls can be parameterised according to individual customer wishes.
- Sensitive lift control with proportional valve.
- Single-piece cover for easy access to all components facilitating service and maintenance.
- Drive stand arranged sideways for best panoramic visibility.
- No straddle arms to facilitate stacking and destacking of goods and to transport closed load carriers.
- \pm 92 degree steering angle for extreme agility.

Standard equipment:

- 2.2 kW drive motor.
- 3.0 kW lift motor.
- Intuitive joystick control.
- Hydrostatic power steering.
- Battery change over the side.
- Combination of electric brake (rear), mechanical brake (front) and automatic parking brake.
- Adjustable working position for the driver.
- Free-view mast for lift heights up to 5,300 mm.
- Overhead guard with large windows.
- Hydraulic height-adjustment of the stand-on platform.
- Fork length: 1,150 mm.

Special equipment:

- Different mast types for lift heights up to 1,600 mm, 3,520 mm or 5,253 mm.
- High performance battery with up to 465 Ah.
- On-board charger.
- Container and cold store version.
- Low closed mast height.
- Side shift.
- Additional hydraulic functions.
- Tilting fork carriage.
- Driver restraint system.
- Load rest.
- Position indicator for drive wheel.



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Your contact

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