Technical sheet :



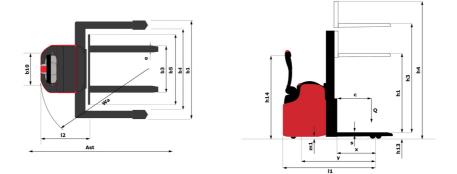




Technical characteristics     Manufacturer     Model Name     Power source     Operator type     Max. capacity     Load center of gravity     Distance from Load backrest to center of rear axle     Wheelbase     Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (laden) / rear axle (luladen)     Weels     Tires type     Number of load wheels / Size of load wheels     Number of load wheels / Size of the stabilizer wheels     Number of load wheels / Size of drive wheels     Front wheel gauge     Power of drive wheels / Size of drive wheels     Front wheel gauge     Dimensions     Service of forks     Overall length     Length to face of forks     Overall width     Fork section / width / length     Fork carriage width     Ground clearance at centre of wheelbase	
Model Name     Power source     Operator type     Max. capacity     Load center of gravity     Distance from Load backrest to center of rear axle     Wheelbase     Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (lunladen) / rear axle (lunladen)     Wheelbase     Weight on front axle (lunladen) / rear axle (lunladen)     Weight on front axle (lunladen) / rear axle (lunladen)     Wheelbase     Weight on front axle (lunladen) / rear axle (lunladen)     Weight on front axle (lunladen) / rear axle (lunladen)     Wheelbase     Weight on front axle (lunladen) / rear axle (lunladen)     Weight on front axle (lunladen) / rear axle (lunladen)     Wheelbase     Number of load wheels / Size of load wheels     Number of load wheels / Size of load wheels     Number of front wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Port wheel gauge     Dimensions     Service of fronks     Overall length     Length to face of forks     Overall length     Length to face of forks	
Power source     Qperator type     Max. capacity     Load center of gravity     Distance from Load backrest to center of rear axle     Wheelbase     Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of tront wheels / Size of drive wheels     Power aguge     Dimensions     Service weight to face of forks     Overall width     Length to face of forks     Overall width     Service weight in low position     Overall width     Service of forks     Coround clearance below mast     Ground clearance at centre of wheelbase	
Qperator type     Max. capacity     Load center of gravity     Distance from Load backrest to center of rear axle     Wheelbase     Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / Size of drive wheels     Number of stabilizer wheels     Number of front wheels / Size of drive wheels     Front wheel gauge     Dimensions     Service weight in low position     Overall width     Length to face of forks     Overall width     Fork section / width / length     Fork section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Max. capacity     Load center of gravity     Distance from Load backrest to center of rear axle     Wheelbase     Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / Size of drive wheels     Number of tront wheels / Size of drive wheels     Number of front wheels / Size of drive wheels     Number of throw wheels / Size of drive wheels     Front wheel gauge     Dimensions     Service and three of forks     Overall length     Length to face of forks     Overall width     Fork section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Load center of gravity     Distance from Load backrest to center of rear axle     Wheelbase     Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / size of drive wheels     Number of front wheels / Size of drive wheels     Number of front wheels / Size of drive wheels     Pront wheel gauge     Dimensions     Service and the face of forks     Overall width     Powerall width     Service weight in low position     Overall width     Service for wheel selow mast     Ground clearance below mast     Ground clearance at centre of wheelbase	
Distance from Load backrest to center of rear axle     Wheelbase     Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of stabilizer wheels / Size of drive wheels     Number of front wheels / size of drive wheels     Front wheel gauge     Dimensions     Service and forks     Overall length     Length to face of forks     Overall width     Fork section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Wheelbase     Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / Size of drive wheels     Number of front wheels / Size of drive wheels     Point wheel gauge     Dimensions     Service and the face of forks     Overall length     Length to face of forks     Overall width     Fork section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Weight     Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / size of the stabilizer wheels     Number of front wheels / rear wheels     Number of drive wheels / Size of drive wheels     Front wheel gauge     Dimensions     Service and the face of forks     Overall length     Length to face of forks     Overall width     Fork section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Service weight     Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / rear wheels     Number of drive wheels / size of drive wheels     Number of drive wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Point wheel gauge     Dimensions     Dimensions     Overall length     Ouerall width     Powerall tength     Fork section / width / length     Fork section / width / length     Ground clearance below mast     Ground clearance at centre of wheelbase	
Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / size of the stabilizer wheels     Number of drive wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Pront wheel gauge     Dimensions     So     Powerall length     Length to face of forks     Overall width     Porks section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Weight on front axle (laden) / rear axle (laden)     Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / rear wheels     Number of drive wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Front wheel gauge     Meestow     Number of drive wheels / Size of drive wheels     Front wheel gauge     Dimensions     So     Fork height in low position     Overall length     Length to face of forks     Overall width     Forks section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / rear wheels     Number of drive wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Rear wheel gauge     Dimensions     So     Pork height in low position     Ouerall length     Length to face of forks     Overall width     Porks section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Wheels     Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / rear wheels     Number of drive wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Front wheel gauge     Dimensions     So     Overall length     Length to face of forks     Overall width     Fork section / width / length     Ground clearance below mast     Ground clearance at centre of wheelbase	
Tires type     Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / rear wheels     Number of drive wheels / Size of drive wheels     Number of drive wheels / Size of drive wheels     Rear wheel gauge     Dimensions     So     Overall length     Length to face of forks     Overall width     Fork section / width / length     Fork carriage width     Ground clearance below mast     Ground clearance at centre of wheelbase	
Number of load wheels / Size of load wheels     Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / rear wheels     Number of drive wheels / Size of drive wheels     Rear wheel gauge     Dimensions     So     Overall length     Overall width     Porks section / width / length     Fork carriage width     Ground clearance below mast     Coround clearance at centre of wheelbase	
Number of stabilizer wheels / Size of the stabilizer wheels     Number of front wheels / rear wheels     Number of drive wheels / Size of drive wheels     Front wheel gauge     Rear wheel gauge     Dimensions     So     Overall length     Length to face of forks     Overall width     Fork section / width / length     Ground clearance below mast     Ground clearance at centre of wheelbase	
5   Number of front wheels / rear wheels     2   Number of drive wheels / Size of drive wheels     3   Front wheel gauge     4   Fork height in low position     9   Overall length     10   Overall width     2   Forks section / width / length     4   Fork carriage width     1   Ground clearance below mast     2   Ground clearance at centre of wheelbase	
2   Number of drive wheels / Size of drive wheels     5   Front wheel gauge     7   Rear wheel gauge     0   Dimensions     5   Fork height in low position     9   Overall length     10   Length to face of forks     11   Overall width     22   Forks section / width / length     44   Fork carriage width     11   Ground clearance below mast     22   Ground clearance at centre of wheelbase	
Front wheel gauge     Rear wheel gauge     Dimensions     5     Fork height in low position     9     Overall length     10     Verall width     2     Forks section / width / length     4     Fork carriage width     1     Ground clearance below mast     2     Ground clearance at centre of wheelbase	
Provide Rear wheel gauge   Dimensions   5 Fork height in low position   9 Overall length   0 Length to face of forks   1 Overall width   2 Forks section / width / length   4 Fork carriage width   1 Ground clearance below mast   2 Ground clearance at centre of wheelbase	
Dimensions     5   Fork height in low position     9   Overall length     0   Length to face of forks     1   Overall width     2   Forks section / width / length     4   Fork carriage width     1   Ground clearance below mast     2   Ground clearance at centre of wheelbase	
5   Fork height in low position     9   Overall length     0   Length to face of forks     1   Overall width     2   Forks section / width / length     4   Fork carriage width     1   Ground clearance below mast     2   Ground clearance at centre of wheelbase	
9 Overall length   0 Length to face of forks   1 Overall width   2 Forks section / width / length   4 Fork carriage width   1 Ground clearance below mast   2 Ground clearance at centre of wheelbase	
0   Length to face of forks     1   Overall width     2   Forks section / width / length     4   Fork carriage width     1   Ground clearance below mast     2   Ground clearance at centre of wheelbase	
1   Overall width     2   Forks section / width / length     4   Fork carriage width     1   Ground clearance below mast     2   Ground clearance at centre of wheelbase	
2   Forks section / width / length     4   Fork carriage width     1   Ground clearance below mast     2   Ground clearance at centre of wheelbase	
4 Fork carriage width 1 Ground clearance below mast 2 Ground clearance at centre of wheelbase	
1     Ground clearance below mast       2     Ground clearance at centre of wheelbase	
2 Ground clearance at centre of wheelbase	
5 Turning radius	
Performances	
Travel speed (laden / unladen)	
Lifting speed (laden / unladen)	
Lowering speed (laden / unladen)	
Max Gradeability (laden / unladen)	
0 Service brake	
Engine	
Drive motor rating \$2 60 min	
Lift motor rating at S3 15%	
Battery voltage / capacity	
5 Battery weight (+/- 5%)	
Miscellaneous	
Type of drive control	
Sound level at the driver's ear according to DIN 12 053	

ES 410 E	₣₮ Created on August 30, 2025 at 8:17 PM UTC					
	Metric					
	Manitou					
	ES 410 ET					
	Electrical - Lead					
	Pedestrian					
Q	1000 kg					
С	600 mm					
х	720 mm					
у	1245 mm					
	870 kg					
	709 kg / 1161 kg					
	609 kg / 261 kg					
	Polyurethane					
	2 / 125x50					
	1 / 125x50					
	2/2					
	1/230x70					
b10	517 mm					
b11	380 mm					
h13	85 mm					
11	1870 mm					
12	720 mm					
b1	800 mm					
s / e / l	60 mm / 180 mm / 1150 mm					
b3	680 mm					
m1	35 mm					
m2	20 mm					
Wa	1400 mm					
	5.80 km/h / 6 km/h					
	0.24 m/s / 0.14 m/s					
	0.20 m/s / 0.14 m/s					
	8 % / 10 %					
	8 % / 10 % Electro magnetic					
	1.20 kW					
	3 kW					
	24 V / 160 Ah					
	150 kg					
	AC					
	65 dB					

## ES 410 ET - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Duplex (CCD)		CCD 26	CCD 29	CCD 34
h1 - Mast lowered height	mm	1780	1930	2180
h2 - Mast free lift	mm	140	140	140
h3 - Mast lifting height	mm	2630	2930	3430
h4 - Mast extended height	mm	3065	3365	3865
Residual capacity at max height	kg	1000	1000	900

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1500	1750
h3 - Mast lifting height	mm	1500	1750
h4 - Mast extended height	mm	1930	2180
Residual capacity at max height	kg	1000	1000



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