Technical sheet :



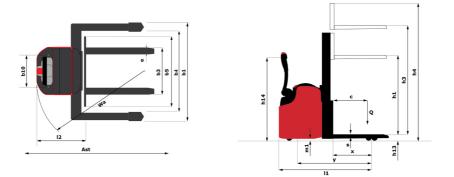




1.1   Manufacturer     1.2   Model Name     1.3   Power source     1.4   Operator type     1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     Weight   Service weight     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (laden) / rear axle (laden) <b>Wheelb</b> Wheels     3.1   Tires type     3.3   Number of castor wheels     3.4   Number of castor wheels     3.5   Number of toat wheels / Size of load wheels     3.4   Number of toat wheels / Frair wheels     3.5.2   Number of tone wheels / Size of drive wheels     3.5.4   Number of tone wheels / Size of drive wheels     3.5.5   Number of tone wheels / Size of drive wheels     3.6   Front wheels / Size of drive wheels     3.7   Rear wheel gauge     Dimensione   Dimensione     4.15   Fork height in low position     4.20   <		Technical characteristics	
1.2   Model Name     1.3   Power source     1.4   Operator type     1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     Wight     2.1     Service weight     Vielbase     Wight on front axle (laden) / rear axle (laden)     Vielbase     Weight on front axle (luniaden)     Vielbase     Weight on front axle (luniaden) / rear axle (luniaden)     Vielbase     Weight on front axle (luniaden) / rear axle (luniaden)     Vielbase     Vielbase     Vielbase     Vielbase     Vielbase     Service weight     Vielbase     Vielbase     Vielbase     Vielbase     Vielbase     Vielbase     Vielbase <td biolawheels="" colspant="" of<="" size="" th=""><th>11</th><td></td></td>	<th>11</th> <td></td>	11	
1.3   Power source     1.4   Operator type     1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axte     1.9   Whelbase     Weight on front axte (laden) / rear axte (laden)     2.1   Service weight     2.2   Weight on front axte (Unladen) / rear axte (lunden)     Wheels   Wheels     3.1   Tires type     3.3   Number of castor wheels     3.4   Number of stabilizer wheels / Size of load wheels     3.5.2   Number of fortic wheels / Size of drive wheels     3.6   Front wheel gauge     Otherensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall widh     4.22   Fork section / width / length     4.23   Ground clearance below mast     4.34   Ground clearance et center of wheelbase     4.32   Ground clearance below mast     4.33   Ground clearance et ow mest     4.34   Height tiller min. max. <th></th> <td></td>			
1.4   Operator type     1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     Veight     Veight on front axle (laden) / rear axle (laden)     Veight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Weight on front axle (lunaden) / rear axle (lunaden)     Wheels     3.3     Number of food wheels / Size of load wheels     3.4     Number of traiw wheels / Size of drive wheels     3.5     Ummensions     Umensions <td co<="" th=""><th></th><td></td></td>	<th></th> <td></td>		
1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     Weight no front axle (laden) / rear axle (laden)     2.1   Service weight     2.2   Weight no front axle (laden) / rear axle (laden)     Weight on front axle (unladen) / rear axle (laden)     Wheelbase     3.1   Tites type     3.3   Number of load wheels / Size of load wheels     3.4   Number of castor wheels     3.4   Number of forth wheels / Size of the stabilizer wheels     3.5   Number of forth wheels / Size of drive wheels     3.5.2   Number of forth wheels / Size of drive wheels     3.5   Number of drive wheels / Size of drive wheels     3.6   Front wheel gauge <b>Unmensions</b> Unmensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length for åce of forks     4.21   Overall width / length     4.22   Fork section / width / length     4.23   Fork cariage lisO 2328 (class/form) A/B     4.24   Fork cariage width			
1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (laden) / rear axle (lunladen)     Wheels   Mumber of castor wheels     3.1   Tires type     3.3   Number of castor wheels / Size of the stabilizer wheels     3.4   Number of forth wheels / Size of drive wheels     3.5   Number of forth wheels / Size of drive wheels     3.6   Forth wheel gauge     0   Dimensions     1.15   Fork height in low position     4.15   Fork height in low position     4.20   Length to face of forks     4.21   Overall width     4.22   Forks section / width / length     4.23   Fork carniage width     4.24   Fork carniage width     4.25   Space between ams     4.31   Ground clearance at centre of wheelbase     4.32   Ground clearance at centre of wheelbase     4.33   Ground clearance at centre of wheelbase     4.34			
1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     Weight     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     Wheels     Wheels     Wheels     Wheels     Wheels     Wight on front axle (laden) / rear axle (Unladen)     Wheels   Wheels     Wight on front axle (laden) / rear axle (Unladen)     Wheels   Mumber of load wheels / Size of load wheels     3.4   Number of toat wheels / Size of the stabilizer wheels     3.5   Number of stabilizer wheels / Size of drive wheels     3.6   Front wheel gauge     Dimensions     Undensition     0 weill length     4.15     Fork height in low position     0 weill length     4.20     Length to face of forks     0 weill length     4.21     Overall width     4.22   Fork caraiage width			
1.9   Wheelbase     2.1   Service weight     2.2   Weight on front axie (laden) / rear axie (laden)     2.3   Weight on front axie (Unladen) / rear axie (Unladen)     Wheels   Wheels     3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.4   Number of stabilizer wheels / Size of the stabilizer wheels     3.5   Number of front wheels / Size of the stabilizer wheels     3.6   Front wheelg auge     3.7   Rear wheel gauge     0   Dimensions     4.15   Fork height in low position     4.19   Overall width     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.23   Fork carriage ISO 2228 (class/form) A/B     4.24   Fork carriage Width     4.25   Space between arms     4.31   Ground clearance below mast     4.32   Ground clearance below mast     4.33   Ground clearance at center of wheelbase     5.1   Travel speed (laden / unladen)     5.2   Liffing speed (laden / unladen)			
Weight     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (Unladen) / rear axle (Unladen) <b>Weight</b> Weight on front axle (Unladen) / rear axle (Unladen) <b>Weight Weight</b> 3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.4   Number of stabilizer wheels / Size of the stabilizer wheels     3.5   Number of fort wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge <b>Dimensions Dimensions</b> 4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width / length     4.22   Fork section / width / length     4.23   Fork carriage ISO 2282 (class/form) A/B     4.24   Fork carriage width     4.25   Space between arms     4.31   Ground clearance at centre of wheelbase     4.32   Truming radius     4.33   Ground clearance at centre of wheelbase     5.1   Travel speed (laden / unl			
2.1   Service weight     2.2   Weight on front axie (laden) / rear axie (laden)     2.3   Weight on front axie (lunden) / rear axie (Unladen)     Wheels   Wheels     3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.4   Number of castor wheels     3.5   Number of stabilizer wheels / Size of the stabilizer wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.6   Front wheel gauge <b>Dimensions</b> Dimensions     4.15   Fork height in low position     4.20   Length to face of forks     4.21   Forks section / width / length     4.22   Fork carriage ISO 2328 (class/form) A/B     4.23   Fork carriage width     4.25   Space between arms     4.31   Ground clearance at centre of wheelbase     4.32   Truming radius     4.9   Height Iller min. / max.     Performances   Ifformances     5.1   Travel speed (laden / unladen)     5.2   Luring speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Broice	1.5		
2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (Unladen) / rear axle (Unladen)     3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.4   Number of castor wheels / Size of the stabilizer wheels     3.4   Number of stabilizer wheels / Size of the stabilizer wheels     3.5   Number of drive wheels / Size of the stabilizer wheels     3.5   Number of drive wheels / Size of the stabilizer wheels     3.6   Front wheel gauge <b>Dimensions</b> Immension     4.15   Fork height in low position     0.22   Forks section / width / length     4.20   Length to face of forks     4.21   Overall length     4.22   Fork section / width / length     4.23   Fork carriage ISO 2328 (class/form) A/B     4.24   Fork carriage ISO 2328 (class/form) A/B     4.25   Space between arms     4.31   Ground clearance at centre of wheelbase     4.32   Fork carriage ISO 2328 (class/form) A/B     4.24   Fork carriage Width     4.25   Space between arms     4.31   Ground clearance at centre of wheelbase </th <th>21</th> <td></td>	21		
2.3   Weight on front axie (Unladen) / ear axie (Unladen)     Wheels     3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.4   Number of castor wheels     3.5   Number of transmission of front wheels / Size of the stabilizer wheels     3.5   Number of front wheels / Fara wheels     3.5   Number of the wheels / Size of drive wheels     3.6   Front wheel gauge <b>Dimensions Dimensions</b> 4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Fork section / width / length     4.22   Fork section / width / length     4.23   Fork carriage kiOd (class/form) A/B     4.24   Fork carriage width     4.25   Space between wast     4.31   Ground clearance below mast     4.32   Ground clearance below mast     4.33   Luming radius     4.34   Height tiller min. / max. <b>Performances Source brake</b> 5.1   Tarvel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)			
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3.1Tires type3.3Number of load wheels / Size of load wheels3.4Number of castor wheels3.4Number of stabilizer wheels / Size of the stabilizer wheels3.5Number of front wheels / Faz wheels3.5.2Number of drive wheels / Size of drive wheels3.6Front wheels / Size of drive wheels3.7Rear wheel gauge001.15Fork height in low position4.15Fork height in low position4.20Length to face of forks4.21Overall length4.22Forks section / width / length4.23Fork cariage width4.24Fork cariage width4.25Space between wheel arms/loading surfaces4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.35Turning radius4.36Height tiller min. / max.Performances5.1Travel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.4Sprice bake6.1Drive motor rating S2 60 min	2.3		
3.3   Number of load wheels / Size of load wheels     3.4   Number of castor wheels     3.4   Number of stabilizer wheels     3.5   Number of front wheels / Size of the stabilizer wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.5.3   Number of drive wheels / Size of drive wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.6   Font wheel gauge     3.7   Rear wheel gauge     3.7   Rear wheel famstore     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Forks section / width / length     4.23   Fork cariage lSO 2328 (class/form) A/B     4.24   Fork cariage width     4.25   Space between wast     4.31   Ground clearance at centre of wheelbase     4.32   Ground clearance at centre of wheelbase     4.35   Turning radius     4.36   Height tiller min. / max.     Performances   Iting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)	21		
3.4Number of castor wheels3.4Number of stabilizer wheels / Size of the stabilizer wheels3.5Number of front wheels / Fear wheels3.5.2Number of front wheels / Size of drive wheels3.6Front wheel gauge3.7Rear wheel gauge0Dimensions4.15Fork height in low position4.20Length to face of forks0Overall length4.21Overall width4.22Forks section / width / length4.23Fork carriage ISO 2328 (class/form) A/B4.24Fork carriage uidth4.25Space between arms4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.33Tuming radius4.9Height tiller min. / max.9Height tiller min. / max.5.1Travel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.4Service brake6.1Drive motor rating \$2 60 min			
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3.7   Rear wheel gauge     Dimensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.23   Fork carriage ISO 2328 (class/form) A/B     4.24   Fork carriage width     4.25   Space between arms     4.31   Ground clearance below mast     4.32   Ground clearance at centre of wheelbase     4.33   Tuming radius     4.9   Height tiller min. / max.     Performances   Iting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Service brake     6.1   Drive motor rating S2 60 min			
Dimensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.23   Fork carriage ISO 2328 (class/form) A/B     4.24   Fork carriage Width     4.25   Space between arms     4.31   Ground clearance below mast     4.32   Ground clearance at centre of wheelbase     4.33   Tuming radius     4.34   Performances     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Service brake     6.1   Drive motor rating S2 60 min			
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4.24   Fork carriage width     4.25   Space between arms     4.31   Ground clearance below mast     4.32   Ground clearance at centre of wheelbase     4.35   Turning radius     4.9   Height tiller min. / max.     Performances     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.8   Max Gradeability (laden / unladen)     5.10   Service brake     Engine     6.1   Drive motor rating \$2 60 min			
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4.9   Height tiller min. / max.     Performances     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.8   Max Gradeability (laden / unladen)     5.10   Service brake     Engine   6.1     6.1   Drive motor rating \$2 60 min			
Performances     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.8   Max Gradeability (laden / unladen)     5.10   Service brake     Engine   Engine     6.1   Drive motor rating \$2 60 min			
5.1 Travel speed (laden / unladen)   5.2 Lifting speed (laden / unladen)   5.3 Lowering speed (laden / unladen)   5.8 Max Gradeability (laden / unladen)   5.10 Service brake   Engine   6.1 Drive motor rating \$2 60 min			
5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.8   Max Gradeability (laden / unladen)     5.10   Service brake     Engine     6.1   Drive motor rating \$2.60 min	5.1		
5.3   Lowering speed (laden / unladen)     5.8   Max Gradeability (laden / unladen)     5.10   Service brake     Engine     6.1   Drive motor rating S2 60 min			
5.8 Max Gradeability (laden / unladen)   5.10 Service brake   Engine   6.1 Drive motor rating \$2 60 min	5.3		
5.10 Service brake   Engine   6.1 Drive motor rating \$2 60 min	5.8		
6.1 Drive motor rating \$2 60 min	5.10		
		Engine	
6.2 Lift motor rating at \$3 15%	6.1	Drive motor rating \$2 60 min	
	6.2	Lift motor rating at S3 15%	
6.3 Battery according to DIN 43531/35/36 A, B, C	6.3		
6.4 Battery voltage / capacity	6.4	Battery voltage / capacity	
6.5 Battery weight (+/- 5%)	6.5	Battery weight (+/- 5%)	
Miscellaneous		Miscellaneous	
8.1 Type of drive control	8.1	Type of drive control	
8.4 Sound level at the driver's ear according to DIN 12 053	8.4	Sound level at the driver's ear according to DIN 12 053	

ES 41	OLE Created on 8 May 2024 at 14:21:12 UTC
	Metric
	Manitou
	ES 410 LE
	Electrical
	Pedestrian
Q	1000 kg
с	600 mm
x	723 mm
у	1285 mm
	920 kg
	728 kg / 1192 kg
	644 kg / 276 kg
	Polyurethane
	2 / 78x78
	1
	2 / 125x50
	2 / 2
	1/230x75
b10	517 mm
b11	978 mm
h13	85 mm
11	1870 mm
12	720 mm
b1	1106 mm
s / e / l	30 mm / 100 mm / 1150 mm
b4	850 mm
	2B
b3	720 m
b3	850/1050/1250
m1	35 mm
m2	20 mm
Wa	1465 mm
h14 / h14	1050 mm / 1050 mm
	Church (Church
	6 km/h / 6 km/h
	0.14 m/s / 0.24 m/s
	0.30 m/s / 0.20 m/s
	8 % / 10 %
	Electro magnetic
	1.20 kW
	3 kW
	оки DIN 43535-В
	24 V / 180 Ah
	24 V / 180 An 176 kg
	170 Kg
	AC
	65 dB
	05 00

## ES 410 LE - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1940	2190	2390
h3 - Mast lifting height	mm	2940	3440	3840
h4 - Mast extended height	mm	3365	3865	4265
Residual capacity at max height	kg	1000	900	1000

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1940	2190
h2 - Mast free lift	mm	1510	1760
h3 - Mast lifting height	mm	2935	3435
h4 - Mast extended height	mm	3365	3865
Residual capacity at max height	kg	1000	900

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	mm	1960
h2 - Mast free lift	mm	1470
h3 - Mast lifting height	mm	4240
h4 - Mast extended height	mm	4240
Residual capacity at max height	kg	550



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