Technical sheet:

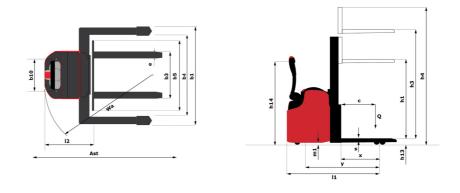
ES 412 LE





Technical Characteristics			E3412 LE OIC	ated on August 30, 2023 at 3.331 W C
1.5 Novel Name		Technical characteristics		Metric
1.4 Operator type	1.1	Manufacturer		Manitou
1.5 Max. capacity Q 1200 kg 1.6 Load center of gravity C G G00 mm 1.8 Distance from Load backrest to center of rear axie x 663 mm 1.9 Wheelbase y 1245 mm 2.1 Service weight 924 kg 743 kg / 1381 kg 2.2 Weight to front axie (Uniaden) / rear axie (Uniaden) 461 kg / 1262 kg 2.3 Weight to front axie (Uniaden) / rear axie (Uniaden) 2.1 Times type Polyumehane 3.3 Number of load wheels / Size of load wheels 3.4 Number of caster wheels / Size of load wheels 3.5 Number of draw wheels / Size of the stabilizer wheels 3.5 Number of frow wheels / Faze of the stabilizer wheels 3.6 Foot wheel gauge 11/2007 5 3.6 Foot wheel gauge 11/2007 5 3.7 Rear wheel gauge 11/2007 5 3.8 The ship of the wheels / Size of the stabilizer wheels 3.7 Rear wheel gauge 11/2007 5 3.8 The ship of the wheels / Size of the stabilizer wheels 3.9 Times type 3.10 Times type 3.11 Times type 3.12 Times type 3.13 Times type 3.14 Times type 3.15 Times type 3.16 Times type 3.17 Times type 3.18 Times type 3.19 Times type 3.19 Times type 3.10 Times type 3.10 Times type 3.11 Times type 3.12 Times type 3.13 Times type 3.14 Times type 3.15 Times type 3.16 Times type 3.17 Times type 3.18 Times type 3.19 Times type 3.19 Times type 3.10 Times type 3.10 Times type 3.11 Times type 3.12 Times type 3.13 Times type 3.14 Times type 3.15 Times type 3.15 Times type 3.16 Times type 3.17 Times type 3.18 Times type 3.18 Times type 3.19 Times type 3.19 Times type 3.10 Times type 3.10 Times type 3.11 Times type 3.12 Times type 3.12 Times type 3.13 Times type 3.14 Times type 3.15 Times type 3.15 Times type 3.16 Times type 3.17 Times type 3.18 T	1.2	Model Name		ES 412 LE
1.5 Max. capacity 0 1200 kg 1.6 Load center of grarity c 600 mm 1.8 Distance from Load backrest to center of rear axile x 683 mm 1.9 Wheelbase y 11245 mm 2.1 Service weight 92.4 kg 122.2 Weight on front axile (Indeen) / rear axile (Uniaden) 612 kg / 202 kg 2.1 Time type 612 kg / 202 kg 612 kg / 202 kg Wheels ***** *** *** *** *** *** *** *** ***	1.3	Power source		Electrical - Lead
1.6	1.4	Operator type		Pedestrian
1.8 Distance from Load backrest to center of rear axle	1.5	Max. capacity	Q	1200 kg
1.8 Distance from Load backrest to center of rear axie	1.6		c	
	1.8		X	683 mm
2.1 Sarvice weight 924 kg 743 kg 733 lkg 2.2 Weight on front axile (Inden) 743 kg 733 lkg 2.3 Weight on front axile (Unladen) 612 kg / 262 kg 2.4 Wheels	1.9	Wheelbase	у	1245 mm
		Weight		
	2.1	Service weight		924 kg
	2.2	•		¥
Wheels	2.3	- , , , ,		
3.1 Tires type Polyurethane 3.3 Number of load wheels / Size of load wheels 2 / 82×70 3.4 Number of castor wheels / Size of the stabilizer wheels 1 / 1 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 125x50 3.5 Number of front wheels / Size of drive wheels 1 / 220x75 3.6 Front wheel gauge b10 517 mm 3.7 Rear wheel gauge b11 978 mm 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 1870 mm 4.20 Length of face of forks 12 720 mm 4.21 Overall width / length 5 / 61 60 mm / 180 mm / 1150 mm 4.22 Fork section / width / length 5 / 61 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / 61 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / 72 60 mm / 180 mm / 1150 mm 4.25 Fork section / width / length 1 / 72 72 mm 4.26 Fork carriage width		2 , , , , ,		<u> </u>
3.3 Number of load wheels / Size of load wheels 2 / 82x70 3.4 Number of castor wheels / Size of castor wheels 1 / 1 3.4 Number of schiller wheels / Size of the stabilizer wheels 2 / 125x50 3.5 Number of front wheels / rear wheels 2 / 2 3.5.2 Number of drive wheels / Size of drive wheels 1 / 230x75 3.6 Front wheel gauge b10 517 mm 3.7 Rear wheel gauge b11 978 mm 4.15 Fok height in low position h13 85 mm 4.19 Overall length 11 1870 mm 4.20 Length to face of forks 12 720 mm 4.21 Overall width 5 / e / 1 60 mm / 180 mm / 1150 mm 4.22 Fork section / width / length 5 / e / 1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e / 1 60 mm / 180 mm / 1150 mm 4.23 Ground clearance at centre of wheelbase m2 2 om m 4.31 Ground clearance at centre of wheelbase m2 2 om m 4.5 Lifting spee	3.1			Polyurethane
3.4 Number of castor wheels / Size of the stabilizer wheels 1/1 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 125x50 3.5 Number of front wheels / Size of drive wheels 2 / 2 3.5.2 Number of drive wheels / Size of drive wheels 11 978 mm 3.6 Front wheel gauge b10 517 mm 3.7 Rear wheel gauge b11 978 mm 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 1870 mm 4.20 Length to face of forks 12 72 om 4.21 Overall width b1 1106 mm 4.22 Fork sariage width 5 / e / I 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e / I 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width m1 35 mm 4.31 Ground clearance at centre of wheelbase m2 20 mm 4.32 Ground clearance at centre of wheelbase m2 20 mm 5.1 Travel speed (laden / unladen) 6 km/h / 6 km/h 5.2 Liffing speed (laden / unladen)				•
3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 125x50 3.5 Number of front wheels / Fax wheels 2 / 2 3.5.2 Number of drive wheels / Size of drive wheels 11230x75 3.6 Front wheel gauge b10 517 mm 3.7 Rear wheel gauge b11 978 mm Unmersions 4.15 Fork height in low position h13 85 mm 4.19 Overall length I1 1870 mm 4.20 Length to face of forks I2 720 mm 4.21 Overall width b1 1106 mm 4.22 Fork seasetion / width / length \$ / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width \$ / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width \$ / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width \$ / e/1 60 mm / 180 mm / 1150 mm 4.29 Height tiller max. \$ / e/1 60 mm / 180 mm / 1150 mm 5.1 Travel speed (laden / unladen) \$ / e/2 6 km/ / 6 km/h 5.2 Lifting speed (laden / unladen) \$ /				
3.5 Number of front wheels / Fear wheels 2 / 2 3.5.2 Number of drive wheels / Size of drive wheels 11/230x75 3.6 Front wheel gauge b10 517 mm 3.7 Rear wheel gauge b11 978 mm Unersions 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 1870 mm 4.20 Length to face of forks 12 720 mm 4.21 Overall width b1 1106 mm 4.22 Forks section / width / length s / e / l 60 mm / 1150 mm 4.24 Fork carriage width b3 660 mm 4.31 Ground clearance below mast m1 35 mm 4.32 Ground clearance at centre of wheelbase m2 20 mm 4.34 Height tiller max. h14 1050 mm 5.1 Tavel speed (laden / unladen) 5 6 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 5 6 km/h / 6 km/h 5.1 Tavel speed (laden / unladen) 5 6 km/h / 6 km/h 5.1 Di				
3.5.2 Number of drive wheels / Size of drive wheels 1/230x75 3.6 Front wheel gauge b10 517 mm 3.7 Rear wheel gauge b11 978 mm Unimensions 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 1870 mm 4.20 Length to face of forks 12 720 mm 4.21 Overall width b1 1106 mm 4.22 Fork section / width / length 5 / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e/1 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width 5 / e/1 60 mm / 180 mm / 1150 mm 5.2 Lift ing speed (laden / u				
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Near wheel gauge 1978 mm 1978			h10	
Dimensions				
4.15 Fork height in low position h13 85 mm 4.19 Overall length l1 1870 mm 4.20 Length to face of forks l2 720 mm 4.21 Overall width b1 1106 mm 4.22 Forks section / width / length s / e / l 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width b3 680 mm 4.31 Ground clearance below mast m1 35 mm 4.32 Ground clearance at centre of wheelbase m2 20 mm 4.9 Height tiller max. h14 1050 mm Performances 5.1 Travel speed (laden / unladen) 6 km/h / 6 km/h 5.2 Lifting speed (laden / unladen) 6 km/h / 6 km/h 5.3 Lowering speed (laden / unladen) 0.12 m/s / 0.24 m/s 5.8 Max Gradeability (laden / unladen) 8 / 10 % 5.10 Service brake Electro magnetic 6.1 Drive motor rating \$2.50 min 1.20 kW 6.2 Lift motor rating \$2.50 min 3 kW 6.3 Battery according to DIN 43531/35/36 A, B, C 176 kg	3.7		511	370 11111
4.19 Overall length I1 1870 mm 4.20 Length to face of forks I2 720 mm 4.21 Overall width b1 1106 mm 4.22 Forks section / width / length \$ /e / I 60 mm / 180 mm / 1150 mm 4.24 Fork carriage width b3 680 mm 4.31 Ground clearance below mast m1 35 mm 4.32 Ground clearance at centre of wheelbase m2 20 mm 4.9 Height tiller max. h14 1050 mm 5.1 Travel speed (laden / unladen) 6 km/h / 6 km/h 6 km/h / 6 km/h 5.2 Liffting speed (laden / unladen) 0.12 m/s / 0.24 m/s 0.30 m/s / 0.20 m/s 5.3 Lowering speed (laden / unladen) 8 % / 10 % 8 % / 10 % 5.8 Max Gradeability (laden / unladen) 8 % / 10 % 8 % / 10 % 5.10 Service brake Electro magnetic Engine 1.20 kW 6.1 Dive motor rating at S3 15% 3 kW 6.2 Lift motor rating at S3 15% 3 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B <	4 15		h13	85 mm
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6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43535-B 6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 176 kg		•		
6.4 Battery voltage / capacity 24 V / 180 Ah 6.5 Battery weight (+/- 5%) 176 kg		·		
6.5 Battery weight (+/- 5%) 176 kg				
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miocenanceae	0.0			170 kg
8.1 Type of drive control AC	8 1			۸۲
8.4 Sound level at the driver's ear according to DIN 12 053 65 dB		•		

ES 412 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	1200	1200	1200

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	1200	1200
Height at may canacity	mm	2035	2/125

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	4730
Residual capacity at max height	kg	1200
Height at max capacity	mm	4240





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