Technical sheet :





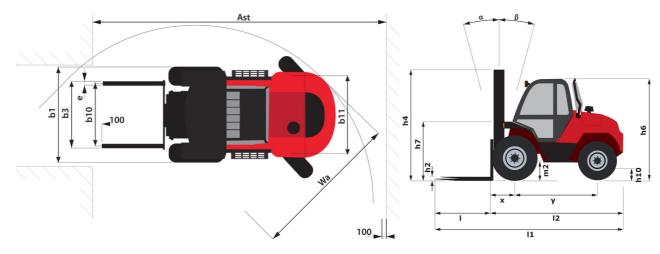


Technical characteristics       1.1     Manufacturer       1.2     Model Name       1.3     Power source       1.4     Operator type       1.5     Max. capacity       1.6     Load center of gravity       1.8     Load distance, centre of drive axie to fork       1.9     Wheelbase       Weight     Velopit       2.1     Service weight       2.2     Weighton front axie (laden) / rear axie (laden)       2.3     Weighton front axie (laden) / rear axie (luladen)       3.4     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.6     Front wheel gauge       Dimensions     Dimensions       4.7     Height of overhead guard (cabin)       4.22     Fork section x width x length       4.23     Fork carriage S02 328 (class/form) A/B       4.24     Fork carriage Width       4.35     Turning radius       4.34     Fork carriage S02 328 (class/form) A/B       4.35     Turning radius       Pariformances     Sitter of wheele base       5.1     Travel speed (laden / unladen)       5.2 </th <th></th> <th></th> <th></th>			
1.2     Model Name       1.3     Power source       1.4     Operator type       1.5     Max. capacity       1.6     Load distance, centre of drive axle to fork       1.9     Wheelbase       Weight       2.1     Service weight       2.1     Service weight       2.2     Weight on front axle (laden) / rear axle (laden)       Wheelbase       Wheelbase       Wheelbase       Wheelbase       Weight (Juliaden) / rear axle (laden)       2.2       Weight (Juliaden) / rear axle (laden)       2.3       Wheelbase       3.1       Tires type       3.5       Number of front wheels / rear wheels       3.5.2     Number of front wheels / rear wheels       3.5.2     Number of front wheels / rear wheels       3.5.4     Fort wheel gauge       Dimensions       Dimensions       4.7       Height fo owehead guard (cabin)       4.		Technical characteristics	
1.3     Power source       1.4     Operator type       1.5     Max. capacity       1.6     Load center of gravity       1.8     Load distance, centre of drive axle to fork       1.9     Wheelbase       Weight       2.1       Service weight       2.2       Weight on front axle (laden) / rear axle (laden)       Wheelbase       Wheelbase       Wheelbase       Wheelbase       3.1       Tires type       3.3       Dimensions of rear wheels       3.5.2       Number of fort wheels       3.5.2       Number of fort wheels       3.6       Fort wheels (cabin)       4.7       Height for scheed graupe       Dimensions of rear wheels       3.6       Fort wheels / rear wheels       3.6       Dimensions of rear wheels       4.7	1.1	Manufacturer	
1.4     Operator type       1.5     Max. capacity       1.6     Load center of gravity       1.8     Load distance, centre of drive axle to fork       1.9     Wheelbase       Weight for fornt axle (laden) / rear axle (laden)       2.1     Service weight       2.2     Weight on front axle (Unladen) / rear axle (Unladen)       2.3     Weight on front axle (Unladen) / rear axle (Unladen)       3.1     Tires type       3.3     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.5.2     Number of drive wheels       7.6     Fort wheel gauge       0     Dimensions       4.7     Height of overhead guard (cabin)       4.7     Height of overhead guard (cabin)       4.7     Height of ace of forks       4.20     Length to face of forks       4.21     Overall width       4.22     Fork carriage ISO 2232 (class/form) A/B       4.23     Fork carriage ISO 2232 (class/form) A/B       4.24     Fork carriage ISO 2232 (class/form) A/B       4.31     Ground clearance below mast       5.1     Travel speed (laden / unladen)	1.2	Model Name	
1.5     Max. capacity       1.6     Load center of gravity       1.8     Load distance, center of drive axle to fork       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 (Unladen)       3.4     Tires type       3.5     Number of front wheels       3.5     Number of front wheels       3.5.2     Number of drive wheels       3.5     Number of front wheels / rear wheels       3.6     Front wheel gauge       Dimensions     Iength       4.7     Height of overhead guard (cabin)       4.7     Height of forks       4.7     Height of overhead guard (cabin)       4.20     Length to face of forks       4.21     Overall width       4.22     Fork section x width x length       4.23     Fork cariage iS0 2232 (class/form) A/B       4.24     Fork cariage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       5.1     Travel speed	1.3	Power source	
1.6     Load center of gravity       1.8     Load distance, centre of drive axie to fork       1.9     Wheelbase       Weight     Service weight       2.1     Service weight       2.2     Weight on front axie (laden) / rear axie (laden)       2.3     Weight on front axie (laden) / rear axie (laden)       Wheels     Wheels       3.3     Dimensions of rear wheels       3.5.2     Number of front wheels / rear wheels       3.5.2     Number of front wheels guage       Dimensions     Fort wheel guage       0.4.7     Height of overhead guard (cabin)       4.7     Height of overhead guard (cabin)       4.20     Length to face of forks       4.21     Overall length       4.22     Fork section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       1.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.4     Derwheel yull (Lad	1.4	Operator type	
1.8     Load distance, centre of drive axle to fork       1.9     Wheelbase       Weight Colspan="2">Colspan="2"       Weight on front axle (laden) / rear axle (laden)       Weight on front axle (laden) / rear axle (Unladen)       Wheels       Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"       South and the colspan="2"       South and the colspan="2"       South and the colspan="2"       South and the colspan="2"       Colspan="2"       Weight of fort wheels       South and the colspan="2"       South and the colspan="2"       South and the kength       4.20       Length to face of forks       Colspan="2"       Fork carriage ISO 2328 (class/form) A/B       4.24       Fork carriage width <td< td=""><td>1.5</td><td>Max. capacity</td><td>Q</td></td<>	1.5	Max. capacity	Q
1.9     Wheelbase       2.1     Service weight       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     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.5.2     Number of front wheels       3.6     Front wheel gauge       Dimensions     Immensions       4.7     Height of overhead guard (cabin)       4.19     Overall length       4.20     Length to face of forks       4.21     Overall length       4.22     Forks section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance at centre of wheelbase       4.32     Ground clearance at centre of wheelbase       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Loweing speed (laden / unladen)       5.4     Transmission type       Transmission type     Transmission type       Tansmission type     Engine       <	1.6	Load center of gravity	С
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)       Wheels     Image: Service Weight       3.3     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.5.     Number of drive wheels       3.6     Front wheel gauge       Dimensions     Image: Service Weight       4.7     Height of overhead guard (cabin)       4.19     Overall length       4.20     Length to face of forks       4.21     Overall width       4.22     Fork section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.31     Ground clearance at centre of wheelbase       4.32     Ground clearance at centre of wheelbase       4.35     Tuming radius       Performances     Intiming radius       5.1     Travel speed (laden / unladen)       5.2     Loweing speed (laden / unladen)       5.3     Drawbar pull (Laden / Unladen)       5.4     Service brake       Transmission type     Transmission type       Ton	1.8	Load distance, centre of drive axle to fork	х
2.1     Service weight       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     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.5.2     Number of drive wheels       3.6     Front wheel gauge       Dimensions     Image: Service Weight       4.7     Height of overhead guard (cabin)       4.7     Height of overhead guard (cabin)       4.7     Height of fork s       0     Length to face of forks       4.20     Length to face of forks       4.21     Overall length       4.22     Fork carniage ISO 2328 (class/form) A/B       4.23     Fork carniage Width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.35     Turning radius       Performances     Intime speed (laden / unladen)       5.2     Drawbar pull (Laden / unladen)       5.3     Lowening speed (laden / unladen)       5.4     Engine       7.1     Engine brand / model / norm	1.9	Wheelbase	у
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     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.5.2     Number of drive wheels       3.6     Front wheel gauge       Dimensions     Image: Section N       4.7     Height of overhead guard (cabin)       4.19     Overall length       4.20     Length to face of forks       4.21     Overall width       4.22     Fork section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance below mast       4.33     Turning radius       Performances     Intring speed (laden / unladen)       5.1     Travel speed (laden / unladen)       5.2     Litting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.4     Service brake       Tansmission type     Tansmission type       7.1     Engine band / model / norm		Weight	
2.3     Weight on front axle (Unladen) / rear axle (Unladen)       Wheels	2.1	Service weight	
Wheels       3.1     Tires type       3.3     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.5.2     Number of drive wheels       3.6     Front wheel gauge       Dimensions     Immensions       4.7     Height of overhead guard (cabin)       4.19     Overall length       4.20     Length to face of forks       4.21     Overall width       4.22     Forks section x width x length       4.23     Fork carriage ISO 2228 (class/form) A/B       4.24     Fork carriage ISO 2228 (class/form) A/B       4.31     Ground clearance at centre of wheelbase       4.32     Ground clearance at centre of wheelbase       4.33     Turning radius       Performances     Performances       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.4     Service brake       Transmission type     Transmission type       Fingle     Fingle       7.1     Engine brand / model / norm       7.2     LC. Engine power rating <td>2.2</td> <td>Weight on front axle (laden) / rear axle (laden)</td> <td></td>	2.2	Weight on front axle (laden) / rear axle (laden)	
3.1     Tires type       3.3     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.5.2     Number of drive wheels       3.6     Front wheel gauge       Dimensions       A       4.7     Height of overhead guard (cabin)       4.7     Height of overhead guard (cabin)       4.7     Height of overhead guard (cabin)       4.20     Length to face of forks       4.21     Overall length       4.22     Fork section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance ac tentre of wheelbase       4.33     Turning radius       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.4     Service brake       Transmission type     Transmission type       Transmission type     Transmission type       Tagine     Tansmission type       Engine     Tansmi (model / norm	2.3	Weight on front axle (Unladen) / rear axle (Unladen)	
3.3     Dimensions of rear wheels       3.5     Number of front wheels / rear wheels       3.5.2     Number of drive wheels       3.6     Front wheel gauge       Dimensions       4.7     Height of overhead guard (cabin)       4.19     Overall length       4.20     Length to face of forks       4.21     Overall width       4.22     Forks section x width x length       4.23     Fork carriage slO2 328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance tentre of wheelbase       4.35     Turning radius       Performances     Intravel speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.4     Service brake       Transmission type     Transmission type       7.1     Engine       7.1     Engine brand / model / norm       7.2     I.C. Engine power rating		Wheels	
3.5     Number of front wheels / rear wheels       3.5.2     Number of drive wheels       3.6     Front wheel gauge <b>Dimensions</b> Image: Comparison of the state o	3.1	Tires type	
3.5.2     Number of drive wheels       3.6     Front wheel gauge       Dimensions     Image: Comparison of the state of	3.3	Dimensions of rear wheels	
3.6     Front wheel gauge       Dimensions       4.7     Height of overhead guard (cabin)       4.19     Overall length       4.20     Length to face of forks       4.21     Overall width       4.22     Fork section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.35     Tuming radius       Performances     Ifting speed (laden / unladen)       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.5     Drawbar pull (Laden / unladen)       5.5     Service brake       Transmission type       Figine     Ingine brand / model / norm       7.1     Engine power rating	3.5	Number of front wheels / rear wheels	
Dimensions       4.7     Height of overhead guard (cabin)       4.19     Overall length       4.20     Length to face of forks       4.21     Overall width       4.22     Forks section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.33     Tuming radius       Performances     Image: Case of the case of t	3.5.2	Number of drive wheels	
Dimensions       4.7     Height of overhead guard (cabin)       4.19     Overall length       4.20     Length to face of forks       4.21     Overall width       4.22     Forks section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.33     Tuming radius       Performances     Image: Case of the case of t	3.6	Front wheel gauge	b1
4.19     Overall length       4.20     Length to face of forks       4.21     Overall width       4.22     Forks section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.33     Tuming radius       Performances     Image: Constant of the cons		Dimensions	
4.20     Length to face of forks       4.21     Overall width       4.22     Forks section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.33     Turning radius       Performances     Image: Contrast in the speed (laden / unladen)       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type     Image: Contrast in the speed (laden / unladen)       5.10     Service brake       Transmission type     Image: Contrast in the speed (laden / unladen)       5.10     Service brake       Transmission type     Image: Contrast in the speed (laden / unladen)       5.10     Service brake       Transmission type     Image: Contrast in the speed (laden / unladen)       7.1     Engine brand / model / norm       7.2     L.C. Engine power rating	4.7	Height of overhead guard (cabin)	h6
4.21     Overall width       4.22     Forks section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.35     Turning radius       Performances       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type     Image: Transmission type       Engine     7.1       7.1     Engine brand / model / norm       7.2     L.C. Engine power rating	4.19	Overall length	1
4.22     Forks section x width x length       4.23     Fork carriage ISO 2328 (class/form) A/B       4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.35     Turning radius       Performances       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type     Transmission type       Figine     Ingine brand / model / norm       7.2     L.C. Engine power rating	4.20	Length to face of forks	12
4.23Fork carriage ISO 2328 (class/form) A/B4.24Fork carriage width4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.35Turning radiusPerformances5.1Travel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.5Drawbar pull (Laden / Unladen)5.10Service brakeTransmission typeEngine7.1Engine brand / model / norm7.2LC. Engine power rating	4.21	Overall width	b1
4.24     Fork carriage width       4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.35     Turning radius       Performances       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type     Engine       7.1     Engine brand / model / norm       7.2     LC. Engine power rating	4.22	Forks section x width x length	s / e
4.31     Ground clearance below mast       4.32     Ground clearance at centre of wheelbase       4.35     Turning radius       Performances     Image: Second Clearance at centre of wheelbase       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type     Image: Second Clearance brain / undel / norm       7.1     Engine brand / model / norm       7.2     L.C. Engine power rating	4.23	Fork carriage ISO 2328 (class/form) A/B	
4.32     Ground clearance at centre of wheelbase       4.35     Turning radius       Performances     Image: Second Clearance at centre of wheelbase       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type       Engine       7.1     Engine brand / model / norm       7.2     LC. Engine power rating	4.24	Fork carriage width	b3
4.35   Turning radius     Performances   Image: Second Condition of Second Conditio	4.31	Ground clearance below mast	m1
Performances       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type     Engine       7.1     Engine brand / model / norm       7.2     I.C. Engine power rating	4.32	Ground clearance at centre of wheelbase	m2
5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type     Engine       7.1     Engine brand / model / norm       7.2     I.C. Engine power rating	4.35	Turning radius	Wa
5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type       Engine       7.1     Engine brand / model / norm       7.2     I.C. Engine power rating		Performances	
5.3     Lowering speed (laden / unladen)       5.5     Drawbar pull (Laden / Unladen)       5.10     Service brake       Transmission type       Engine       7.1     Engine brand / model / norm       7.2     I.C. Engine power rating	5.1	Travel speed (laden / unladen)	
5.5   Drawbar pull (Laden / Unladen)     5.10   Service brake     Transmission type     Engine     7.1   Engine brand / model / norm     7.2   I.C. Engine power rating	5.2	Lifting speed (laden / unladen)	
5.10   Service brake     Transmission type     Engine     7.1   Engine brand / model / norm     7.2   I.C. Engine power rating	5.3	Lowering speed (laden / unladen)	
5.10   Service brake     Transmission type     Engine     7.1   Engine brand / model / norm     7.2   I.C. Engine power rating	5.5	Drawbar pull (Laden / Unladen)	
Engine     7.1   Engine brand / model / norm     7.2   I.C. Engine power rating	5.10		
7.1   Engine brand / model / norm     7.2   I.C. Engine power rating		Transmission type	
7.2 I.C. Engine power rating		Engine	
	7.1	Engine brand / model / norm	
	7.2		
	7.3	Rated speed	
Miscellaneous			
8.1 Type of drive control	8.1	Type of drive control	

<i>м-</i> <b>х 50-</b> <i>4</i> Created on August 17, 2025 at 8:22 AM UT	тс
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	Metric
	Manitou
	M-X 50-4
	Diesel
	Seated
Q	5000 kg
С	600 mm
х	762 mm
у	2120 mm
	7660 kg
	10800 kg / 1869 kg
	2570 kg / 5090 kg
	Pneumatic
	340/80R18 XMCL 143A8
	2/2
	4
b10	1620 mm
h6	2495 mm
l1	4945 mm
12	3745 mm
b1	2080 mm
s/e/l	50 mm x 150 mm / 1200 mm
	4A
b3	1670 mm
m1	265 mm
m2	375 mm
Wa	4155 mm
	24 km/h / 23.40 km/h
	0.40 m/s / 0.50 m/s
	0.40 m/s / 0.40 m/s
	10360 daN / 6205 daN
	Hydraulic
	Torque converter
	Perkins / 1104D-44T NL38894 / Stage IIIA
	70 Hp
	2360 rpm
	Hydraulic

## M-X 50-4 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward	۰	15	15	15	15	15	15	15
$\beta$ - Mast/fork carriage tilt, backward	۰	15	15	15	15	15	15	15
h1 - Mast lowered height	mm	2520	2670	2770	2870	3020	3270	3520
h4 - Mast extended height	mm	4070	4370	4570	4770	5070	5570	6070
Residual capacity at max height	kg	5000	5000	5000	5000	5000	4500	4000
Residual capacity with integrated side shift at max heigth	kg	4700	4700	4700	4700	4700	4050	3600
Height at max capacity	mm	2500	2500	2500	2500	2500	2500	2500

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	۰	15	15	15	15	15	10	10	10
β - Mast/fork carriage tilt, backward	٥	15	15	15	15	15	15	15	15
h1 - Mast lowered height	mm	2270	2370	2470	2545	2605	2720	2870	3045
h2 - Mast free lift	mm	1265	1365	1465	1540	1600	1715	1865	2040
h4 - Mast extended height	mm	4770	5070	5370	5570	5770	6070	6570	7070
Residual capacity at max height	kg	5000	5000	4500	4000	3700	3300	2400	2000
Residual capacity with integrated side shift at max heigth	kg	4700	4500	4050	3600	3330	2970	2160	1800
Height at max capacity	mm	2500	2500	2500	2500	2500	2500	2500	2500



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