Technical sheet:

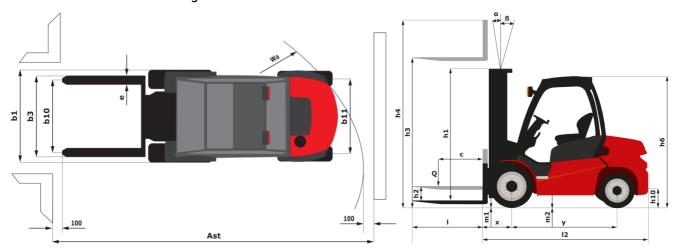
## **MSI-X 30**





Technical characteristics  Manufacturer  Model Name  Power source  Operator type  Max. capacity  Load center of gravity  Load distance, centre of drive axle to fork  Weight  Service weight  Weight  Weight on front axle (laden) / rear axle (laden)  Weight on front axle (lunladen) / rear axle (Unladen)  Wheels  Tires type  Dimensions of front wheels  Number of front wheels / rear wheels  Number of drive wheels  Front wheel gauge  bild  Rear wheel gauge  bild  Dimensions  Late of averthee dauger (leable)	Metric  Manitou  MSI-X 30  Diesel  Seated  3000 kg  500 mm  626 mm  1900 mm  4355 kg  6435 kg / 920 kg  1660 kg / 2695 kg  Inflatable  300-15/18 6T P43  7.00-12/12 ED PLUS  2 / 2  2  1044 mm
Model Name  Power source  Operator type  Max. capacity  Load center of gravity  C  B  Wheelbase  Weight  Service weight  Weight on front axle (laden) / rear axle (laden)  Wheels  Tires type  Dimensions of front wheels  Number of front wheels  Front wheel gauge  Front wheel gauge  Dimensions  Model Name  Q  Q  Q  Q  Q  Q  Q  Q  X  Weight  X  X  X  Weight  Service weight  Weight  Dimensions  Front wheels  Source weight  Meels  Dimensions of front wheels  Source weight  Meels  Dimensions of front wheels  Source weight  Wheels  Dimensions  Dimensions  Dimensions  Dimensions	MSI-X 30 Diesel Seated 3000 kg 500 mm 626 mm 1900 mm  4355 kg 6435 kg / 920 kg 1660 kg / 2695 kg  Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Power source Operator type  Max. capacity Cable Load center of gravity Cable Load distance, centre of drive axle to fork  Wheelbase Velight Service weight Weight on front axle (laden) / rear axle (laden) Wheels Tires type Dimensions of front wheels Number of front wheels Number of drive wheels Front wheel gauge Front wheel gauge Dimensions  Power source  Q Q Q Q Q Q Q Q Q Q Q Q X X X X X X X	Diesel Seated 3000 kg 500 mm 626 mm 1900 mm  4355 kg 6435 kg / 920 kg 1660 kg / 2695 kg  Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
.4 Operator type .5 Max. capacity .6 Load center of gravity .7 C C .8 Load distance, centre of drive axle to fork .9 Wheelbase .9 Weight .1 Service weight .2 Weight on front axle (laden) / rear axle (laden) .3 Weight on front axle (Unladen) / rear axle (Unladen)  Wheels .1 Tires type .2 Dimensions of front wheels .3 Dimensions of rear wheels .5 Number of drive wheels .5 Number of drive wheels .6 Front wheel gauge .7 Rear wheel gauge .7 Bar wheel	Seated 3000 kg 500 mm 626 mm 1900 mm  4355 kg 6435 kg / 920 kg 1660 kg / 2695 kg  Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Max. capacity Q  6 Load center of gravity c  8 Load distance, centre of drive axle to fork x  9 Wheelbase y  Weight  1 Service weight  2 Weight on front axle (laden) / rear axle (laden)  Wheels  1 Tires type  2 Dimensions of front wheels  5 Number of front wheels / rear wheels  Number of drive wheels  6 Front wheel gauge b10  Dimensions  Indicate the first of the first wheel s wheel s saw wheel gauge b11  Dimensions	3000 kg 500 mm 626 mm 1900 mm  4355 kg 6435 kg / 920 kg 1660 kg / 2695 kg  Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
.6 Load center of gravity c .8 Load distance, centre of drive axle to fork x .9 Wheelbase y  Weight Service weight Weight on front axle (laden) / rear axle (laden) Weight on front axle (Unladen) / rear axle (Unladen)  Wheels Tires type Dimensions of front wheels Dimensions of rear wheels Number of front wheels / rear wheels Number of drive wheels Number of drive wheels Rear wheel gauge b10 Dimensions	500 mm 626 mm 1900 mm  4355 kg 6435 kg / 920 kg 1660 kg / 2695 kg  Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Load distance, centre of drive axle to fork  y Wheelbase y Weight  Service weight  Weight on front axle (laden) / rear axle (laden)  Wheels  Tires type  Dimensions of front wheels  Number of front wheels  Front wheel gauge b10 Rear wheel gauge b11 Dimensions	626 mm 1900 mm  4355 kg 6435 kg / 920 kg 1660 kg / 2695 kg  Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Wheelbase y Weight  Service weight  Weight or	1900 mm  4355 kg 6435 kg / 920 kg 1660 kg / 2695 kg  Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Wheelbase y Weight  1.1 Service weight 1.2 Weight on front axle (laden) / rear axle (laden)  Wheels 1.1 Tires type 1.2 Dimensions of front wheels 1.3 Dimensions of rear wheels 1.5 Number of front wheels / rear wheels 1.6 Front wheel gauge 1.7 Rear wheel gauge 1.8 Dimensions 1.9 Wheels 1.0 Dimensions 1.1 Dimensions 1.1 Dimensions 1.2 Number of drive wheels 1.3 Dimensions 1.4 Dimensions 1.5 Number of drive wheels 1.6 Front wheel gauge 1.7 Dimensions	4355 kg 6435 kg / 920 kg 1660 kg / 2695 kg Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Weight Service weight Weight on front axle (laden) / rear axle (laden) Weight on front axle (Unladen) / rear axle (Unladen)  Wheels  I Tires type Dimensions of front wheels Dimensions of rear wheels Number of front wheels / rear wheels Number of drive wheels Front wheel gauge b10 Rear wheel gauge b11 Dimensions	6435 kg / 920 kg 1660 kg / 2695 kg Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Service weight  Weight on front axle (laden) / rear axle (laden)  Wheels  I Tires type  Dimensions of front wheels  Number of front wheels / rear wheels  Number of drive wheels  Front wheel gauge  b10  Rear wheel gauge  b11  Dimensions	6435 kg / 920 kg 1660 kg / 2695 kg Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Weight on front axle (laden) / rear axle (laden)  Wheels  I Tires type  Dimensions of front wheels  Number of front wheels / rear wheels  Number of drive wheels  Front wheel gauge  b10  Rear wheel gauge  b11  Dimensions	6435 kg / 920 kg 1660 kg / 2695 kg Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2
Weight on front axle (Unladen) / rear axle (Unladen)  Wheels  Tires type  Dimensions of front wheels  Dimensions of rear wheels  Number of front wheels / rear wheels  Number of drive wheels  Front wheel gauge  b10  Rear wheel gauge  b11  Dimensions	1660 kg / 2695 kg  Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2 2
Wheels  1.1 Tires type 1.2 Dimensions of front wheels 1.3 Dimensions of rear wheels 1.5 Number of front wheels / rear wheels 1.6 Front wheel gauge 1.7 Rear wheel gauge 1.8 Dimensions 1.9 Dimensions 1.1 Dimensions 1.1 Tires type 1.2 Dimensions 1.2 Dimensions 1.3 Dimensions 1.4 Dimensions 1.5 Dimensions 1.5 Dimensions 1.6 Dimensions 1.7 Dimensions 1.7 Dimensions 1.8	Inflatable 300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2 2
Tires type  Dimensions of front wheels  Dimensions of rear wheels  Number of front wheels / rear wheels  Number of drive wheels  Front wheel gauge  b10  Rear wheel gauge  b11  Dimensions	300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2 2
Dimensions of front wheels Dimensions of rear wheels Dimensions of rear wheels  Number of front wheels / rear wheels  Number of drive wheels Front wheel gauge b10 Rear wheel gauge b11 Dimensions	300-15/18 6T P43 7.00-12/12 ED PLUS 2 / 2 2
Dimensions of rear wheels  Number of front wheels / rear wheels  Number of drive wheels  Front wheel gauge  b10  Rear wheel gauge  b11  Dimensions	7.00-12/12 ED PLUS 2 / 2 2
Number of front wheels / rear wheels  Number of drive wheels  Front wheel gauge  B10  Rear wheel gauge  b11  Dimensions	2/2 2
5.2 Number of drive wheels 6.6 Front wheel gauge b10 7.7 Rear wheel gauge b11 Dimensions	2
.6 Front wheel gauge b10 .7 Rear wheel gauge b11 Dimensions	
Rear wheel gauge b11 Dimensions	1044 11111
Dimensions	1100
	1108 mm
	0005
Height of overhead guard (cabin) h6	2095 mm
.8 Seat height/stand height h7	972 mm
19 Overall length I1	4234 mm
20 Length to face of forks 12	3084 mm
21 Overall width b1	1330 mm
22 Forks section / width / length s / e /	
Fork carriage ISO 2328 (class/form) A/B	3A
24 Fork carriage width b3	1260 mm
31 Ground clearance below mast m1	260 mm
32 Ground clearance at centre of wheelbase m2	238 mm
Aisle Width for pallets 1000 x 1200 crossways Ast	4626 mm
35 Tuming radius Wa	2650 mm
Performances	
Travel speed (laden / unladen)	18 km/h-22 km/h
.2 Lifting speed (laden / unladen)	0.50 m/s-0.50 m/s
.3 Lowering speed (laden / unladen)	0.50 m/s-0.30 m/s
.5 Drawbar pull (Laden / Unladen)	2140 daN / 1340 daN
Gradeability (laden / unladen)	30 % / 32 %
.10 Service brake	Hydraulic brakes by loss of pressure
Engine	
.1 Engine brand / model / norm	Kubota / V2403 / Stage IIIA
.2 I.C. Engine power rating	36 kW
.3 Rated speed	2700 rpm
.4 Number of cylinders / Capacity of cylinders	4 - 2434 cm <sup>3</sup>
Miscellaneous	
.1 Type of drive control	Cable
.2 Working hydraulic pressure for attachments	180 bar
.3 Oil flow rate for attachments	45 l/min
.4 Measured/quaranteed mean noise level at the ear of the operator	< 80 dB
.4 Sound level at the driver's ear according to DIN 12 053	80 dB

## MSI-X 30 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
α - Mast/fork carriage tilt, forward	۰	10	10	10	10	10
β - Mast/fork carriage tilt, backward	۰	12	12	12	12	12
h1 - Mast lowered height	mm	2136	2286	2546	2736	2986
h2 - Mast free lift	mm	90	90	90	90	90
h3 - Mast lifting height	mm	3000	3300	3700	4000	4500
h4 - Mast extended height	mm	3738	4038	4438	4738	5238
Residual capacity at max height	kg	3000	3000			
Height at max capacity	mm	3000	3300	2500	2500	2500

Free Lift Triplex (FLT)		FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	۰	10	10	10	10	10	6	6
β - Mast/fork carriage tilt, backward	۰	12	12	12	12	12	6	6
h1 - Mast lowered height	mm	1936	2036	2136	2286	2386	2736	2986
h2 - Mast free lift	mm	1208	1308	1408	1558	1658	2008	2258
h3 - Mast lifting height	mm	3400	3700	4000	4300	4700	5500	6000
h4 - Mast extended height	mm	4184	4484	4784	5084	5484	6284	6784
Residual capacity at max height	kg	3000						
Height at max capacity	mm	3400	2500	2500	2500	2500	2500	2500

Full Visibility Triplex (FVT)		FVT 33
h1 - Mast lowered height	mm	1826
h2 - Mast free lift	mm	77
h3 - Mast lifting height	mm	3300
h4 - Mast extended height	mm	4027
Height at max capacity	mm	2500





## **Head Office**

B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes