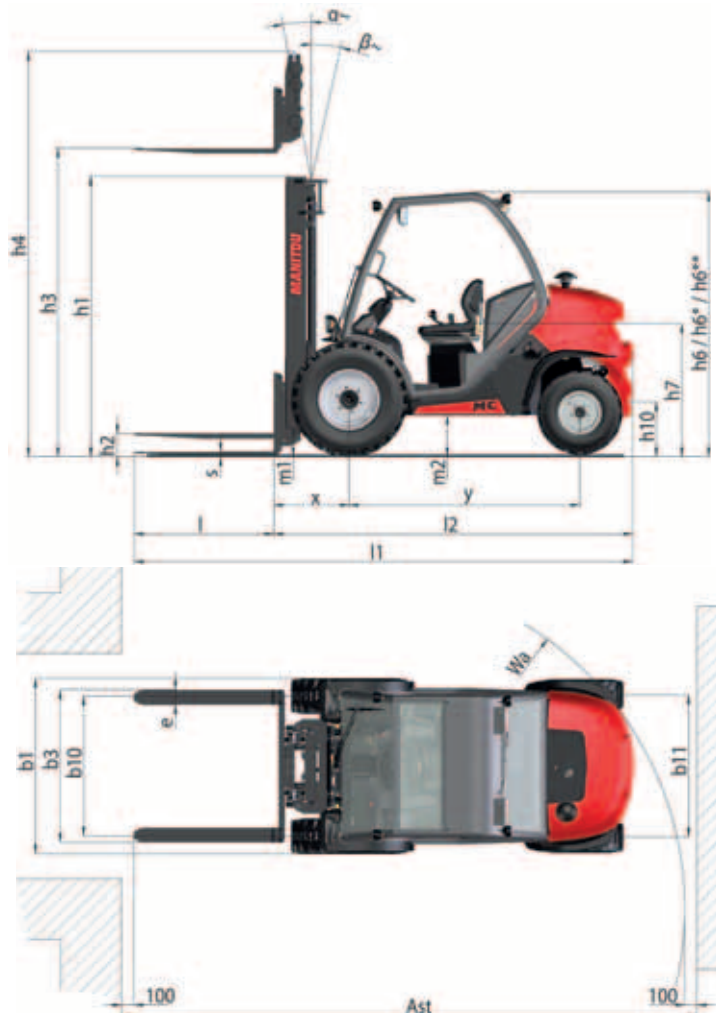


CHARACTERISTICS MC 25-4 D K ST3A S1 MC 30-4 D K ST3A S1

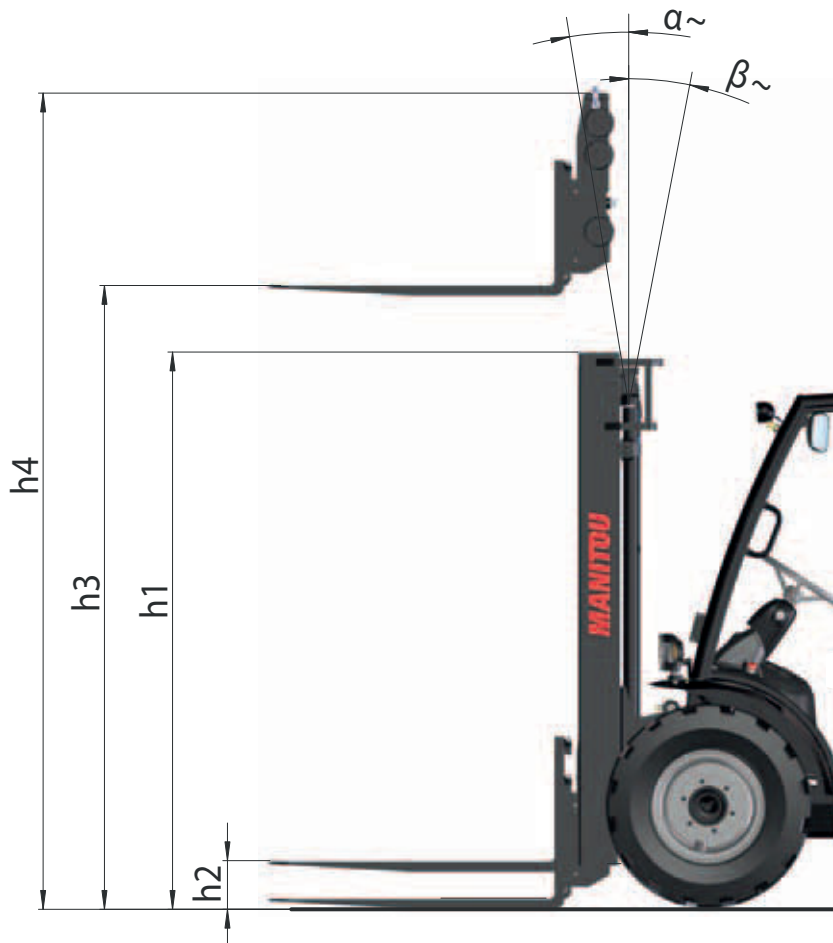
NOTE: The specifications given are not binding on the manufacturer and can be modified without prior notification.

			MANITOU		
			MC 25-4 D K ST3A S1	MC 30-4 D K ST3A S1	
DESIGNATION	1.1	Manufacturer			
	1.2	Model type / Serial no.			
	1.3	Propulsion: battery, diesel, petrol, LPG, mains	Diesel		
	1.4	Type of operation: manual, pedestrian, standing, seated	Seated		
	1.5	Rated capacity/load on forks (<i>basic capacity</i>)	Q (t)	2.5	3.0
	1.6	Centre of gravity of load	c (mm)	500	
	1.8	Distance from the load bearing surface to the centre of the front axle	x (mm)	621	626
	1.9	Wheelbase	y (mm)	1900	
	WEIGHT	2.1	Weight of truck in working order	kg	4035
2.2		Front axle load laden	kg	5550	6595
2.2.1		Rear axle load laden	kg	985	920
2.3		Front axle load unladen	kg	1575	1820
2.3.1		Rear axle load unladen	kg	2460	2695
RUNNING CARRIAGE		3.1	Tyre equipment : bandage (V), super-elastic (SE), pneumatic (L)	L	
	3.2	Size of front wheels	" or mm	12.5/80-18/12 SL R4	
	3.3	Size of rear wheels	" or mm	27x10-12 SKS	
	3.5	Number of front wheels (x = drive wheel)		2x	
	3.5.1	Number of rear wheels (x = drive wheel)		2x	
	3.6	Front track (middle of wheels)	b10 (mm)	1159	
	3.7	Rear track (middle of wheels)	b11 (mm)	1176	
DIMENSIONS	4.1	Tilt of mast forward	α (°)	10	
	4.1.1	Tilt of mast backward	β (°)	12	
	4.2	Height of mast lowered	h1 (mm)	2340	
	4.3	Normal free lift	h2 (mm)	90	
	4.4	Lift height	h3 (mm)	3300	
	4.5	Height of extended mast	h4 (mm)	4156	4161
	4.7	Standard height of the overhead guard/cab / cab with air conditioning	h6 (mm)	2155	
	4.7	Lowered height of the overhead guard, cab or cab with air conditioning	h6 *(mm)	1990	
	4.8	Height of seat	h7 (mm)	1094	
	4.12	Height of towing coupling	h10 (mm)	-	
	4.19	Total length	l1 (mm)	4195	4235
	4.20	Length of forks at heel	l2 (mm)	3045	3085
	4.21	Overall width	b1 (mm)	1450	
	4.22	Section of fork arms	s (mm)	40	45
	4.22.1	Width of fork arms	e (mm)	122	
	4.22.2	Length of fork arms	l (mm)	1150	
	4.23	Fork carriage (to DIN 15173 A/B)		FEM 2A	FEM 3A
	4.24	Width of fork carriage (with load back-rest)	b3 (mm)	1260	
	4.31	Ground clearance of mast unladen	m1 (mm)	300	
	4.32	Ground clearance at centre of wheel-base unladen	m2 (mm)	310	
4.33	Aisle width for 1,000x1,200 pallet widthways	Ast (mm)	5376	5411	
4.34	Turning radius	Wa (mm)	3405	3435	

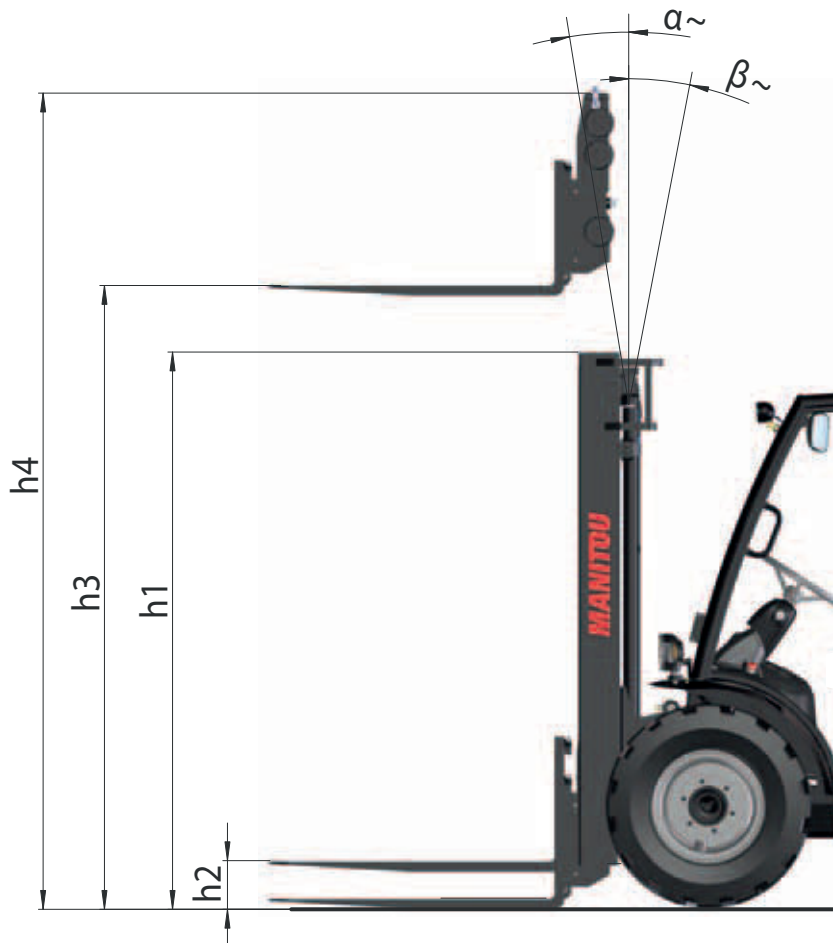
43 PERFORMANCES	5.1	Speed of travel laden	km/h	12		
	5.1.1	Speed of travel unladen (2WD/4WD)	km/h	25 / 14		
	5.2	Speed of rise laden	m/s	0.47		
	5.2.1	Speed of rise unladen	m/s	0.46		
	5.3	Speed of lowering laden	m/s	0.5		
	5.3.1	Speed of lowering unladen	m/s	0.3		
	5.5	Nominal towing power laden	daN	2775	2880	
	5.5.1	Nominal towing power unladen	daN	2035	1860	
	5.7	Slope laden	%	47	40	
	5.7.1	Slope unladen	%	58	43	
	5.8	Acceleration time when driving unladen (2WD/4WD)	s	13 / 7		
	5.9	Service brake		Low pressure hydraulic		
ENGINE SPECIFICATION	7.1	Engine manufacturer/Type		KUBOTA / V2403		
	7.2	Engine power rating (to ISO 1585)	kW	36.5		
	7.3	Rated speed	rpm	2700		
	7.4	Number of pistons/Capacity	cm ³	4 - 2434		
	7.5	Fuel consumption (according to VDI cycle)	l/h	6.1		
MISCELLANEOUS	8.1	Speed control		Cable		
	8.2	Working hydraulic pressure for attachments	Bars	180		
	8.3	Pump outlet oil flow rate	l/min	57		
	8.3	Oil flow rate for attachments	l/min	53		
	8.4	Sound level in the driver's ear (according to DIN 12053) (guard/cab)	db (A)	82		
	8.5	Guaranteed sound power level to the environment LWA (according to Directive 2000/14/EC modified by Directive 2005/88/EC)	db (A)	104		
8.6	Average weighted acceleration on driver's body (according to NF EN 13059)	m/s	0.97			



MC 25-2 D K ST3A S5 MC 25-4 D K ST3A S5	LIFTING MAST	FREE LIFT	HEIGHT OF MAST		TILTING	
	h3 (mm)	h2 (mm)	h1 (mm) lowered	h4 (mm) extended	FRONT α (°)	REAR β (°)
DUPLEX TOTAL VISIBILITY	2700	90	2040	3576	10	12
	3000	90	2190	3876	10	12
	3300	90	2340	4176	10	12
	3500	90	2440	4376	10	12
	3700	90	2600	4576	10	12
	4000	90	2790	4876	10	12
	4500	90	3040	5376	10	12
	5000	90	3290	5876	6	6
	5500	90	3540	6376	6	6
6000	90	3830	6876	6	6	
TRIPLEX WITHOUT FREE LIFT	3300	0	1880	4115	10	12
TRIPLEX FREE LIFT	3700	1216	1990	4514	10	12
	4000	1316	2090	4814	10	12
	4300	1416	2190	5114	10	12
	4700	1566	2340	5514	10	12
	5000	1666	2440	5814	6	6
	5500	1826	2600	6314	6	6
	6000	2016	2790	6814	6	6
	6500	2266	3040	7314	6	6
7000	2516	3290	7814	6	6	



MC 30-2 D K ST3A S5 MC 30-4 D K ST3A S5	LIFTING MAST	FREE LIFT	HEIGHT OF MAST		TILTING	
	h3 (mm)	h2 (mm)	h1 (mm) lowered	h4 (mm) extended	FRONT α (°)	REAR β (°)
DUPLEX TOTAL VISIBILITY	3000	90	2190	3938	10	12
	3300	90	2340	4238	10	12
	3500	90	2440	4438	10	12
	3700	90	2600	4638	10	12
	4000	90	2790	4938	10	12
	4500	90	3040	5438	10	12
	5000	90	3290	5938	6	6
	5500	90	3540	6393	6	6
TRIPLEX FREE LIFT	3700	1292	2090	4545	10	12
	4000	1392	2190	4845	10	12
	4300	1542	2340	5145	10	12
	4700	1642	2440	5545	10	12
	5000	1802	2600	5845	6	6
	5500	1992	2790	6345	6	6
	6000	2242	3040	6845	6	6
	7000	2742	3540	7845	6	6



TYRES

FRONT

		PRESSURE (bar) LOAD PER TYRE (kg)	MC 25-2 D	MC 25-4 D	MC 30-2 D	MC 30-4 D	MSI 25 D	MSI 30 D	MSI 35 D
SOLIDEAL	12.5/80-18/12 SL R4	PRESSURE	3.7	3.7	3.7	3.7			
		Front unladen	750	800	850	900			
		Front laden	2750	2800	3200	3300			
	300-15/18 ED PLUS	PRESSURE					7.5	7.5	7.5
		Front unladen					750	850	850
		Front laden					2750	3200	3650
CONTINENTAL	275/80R20 14PR	PRESSURE	5.3	5.3	5.6	5.6			
		Front unladen	750	800	850	900			
		Front laden	2750	2800	3200	3300			
	315/70 R15 22PR RT20	PRESSURE					10	10	10
		Front unladen					750	850	850
		Front laden					2750	3200	3650
	300-15 22PR IC40	PRESSURE					10	10	10
		Front unladen					750	850	850
		Front laden					2750	3200	3650
	315/70 -15/8,0 SC20 M+ PPS	PRESSURE					SOLID	SOLID	SOLID
		Front unladen					750	850	850
		Front laden					2750	3200	3650
ALIANCE	300/75R18 580	PRESSURE	4.4	4.4	4.4	4.4			
		Front unladen	750	800	850	900			
		Front laden	2750	2800	3200	3300			
DUNLOP	15.5/55 R18 14PR	PRESSURE	4	4	4	4	4	4	4
		Front unladen	750	800	850	900	750	850	850
		Front laden	2750	2800	3200	3300	2750	3200	3650

REAR

		PRESSURE (bar) LOAD PER TYRE (kg)	MC 25-2 D	MC 25-4 D	MC 30-2 D	MC 30-4 D	MSI 25 D	MSI 30 D	MSI 35 D
SOLIDEAL	7.00-12/12 ED PLUS	PRESSURE	8.5	/	8.5	/	8.5	8.5	8.5
		Rear unladen	1650	/	1750	/	1150	1300	1500
		Rear laden	450	/	450	/	450	450	450
	27x10-12/14 SKS	PRESSURE	/	8.3	/	8.3	/	/	/
		Rear unladen	/	1250	/	1350	/	/	/
		Rear laden	/	500	/	450	/	/	/
CONTINENTAL	27.10.12 14PR IC12	PRESSURE	4.5	/	4.5	/	/	/	/
		Rear unladen	1650	/	1750	/	/	/	/
		Rear laden	450	/	450	/	/	/	/
	27.10.12 14PR IC30	PRESSURE	/	7	/	7	/	/	/
		Rear unladen	/	1250	/	1350	/	/	/
		Rear laden	/	500	/	450	/	/	/
	7,00 R12 16 PR RT20	PRESSURE	/	/	/	/	10	10	10
		Rear unladen	/	/	/	/	1150	1300	1500
		Rear laden	/	/	/	/	450	450	450
	7,00-12 14 PR IC40	PRESSURE	/	/	/	/	9	9	9
		Rear unladen	/	/	/	/	1150	1300	1500
		Rear laden	/	/	/	/	450	450	450
	7.00-12/5.0 SC20 M+ PPS	PRESSURE	/	/	/	/	SOLID	SOLID	SOLID
		Rear unladen	/	/	/	/	1150	1300	1500
		Rear laden	/	/	/	/	450	450	450

		PRESSURE (bar)	LOAD (kg)	GROUND CONTACT PRESSURE (kg/cm ²)		GROUND CONTACT AREA (cm ²)	
				HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
SOLIDEAL	12.5/80-18/12 SL R4	3.7	750				
			800				
			850				
			900				
			2750				
			2800				
			3200				
	300-15/18 ED PLUS	7.5	750				
			850				
			2750				
			3200				
	7.00-12/12 ED PLUS	8.5	450				
			1150				
			1300				
			1500				
			1650				
27x10-12/14 SKS	8.3	450					
		500					
		1250					
		1350					
ALIANCE	300/75R18 580	4.4	750				
			800				
			850				
			900				
			2750				
			2800				
			3200				
DUNLOP	15.5/55 R18 14PR	4	750				
			800				
			850				
			900				
			2750				
			2800				
			3200				
			3300				
			3650				

		PRESSURE (bar)	LOAD (kg)	GROUND CONTACT PRESSURE (kg/cm ²)		GROUND CONTACT AREA (cm ²)	
				HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
CONTINENTAL	275/80R20 14PR	5.3	750				
			800				
			27500				
		5.6	2800				
			850				
			900				
	315/70 R15 22PR RT20	10	3200				
			3300				
			750				
			850				
	300-15 22PR IC40	10	2750				
			3200				
			3650				
			750				
	315/70 -15/8,0 SC20 M+ PPS	SOLID	850				
			2750				
			3200				
			3650				
	27.10.12 14PR IC12	4.5	450				
			1650				
			1750				
	27.10.12 14PR IC30	7	450				
			500				
			1250				
	7,00 R12 16 PR RT20	10	1350				
			450				
			1150				
	7,00-12 14 PR IC40	9	1300				
			1500				
			450				
	7.00-12/5.0 SC20 M+ PPS	SOLID	1150				
			1300				
			1500				
			450				