Technical sheet:

MI 18 D

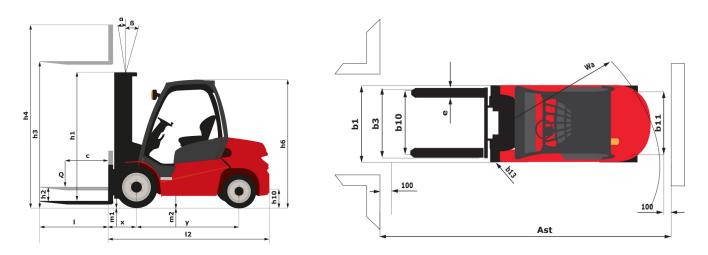




Manufacturer	ic	Metric		Technical characteristics	
1.2 Model Name					1.1
1.3 Power source				Model Name	
1.4 Operator type 1.5 Mass, capacity 1.6 Load centre of gravity 1.7 Load distance, centre of drive ade to fork 1.8 Load distance, centre of drive ade to fork 1.9 Wheelbase 1.0 Veleght 2.1 Service Weight (School) / rear ade (Lodon) 2.2 Velight on fromt ade (Unladen) / rear ade (Unladen) 2.3 Velight on front ade (Unladen) / rear ade (Unladen) 2.4 Velight on front ade (Unladen) / rear ade (Unladen) 2.5 Universions of front wheels 3.6 Dimensions of front wheels 3.7 Dimensions of front wheels 3.8 Dimensions of front wheels 3.9 Dimensions of front wheels 3.1 Dimensions of front wheels 3.2 Dimensions of front wheels 3.3 Dimensions of front wheels 3.4 Number of front wheels 3.5 Lose 889 3.7 Rear wheel 4.8 Dimensions of front wheels 4.9 Early Health of overhead guard (cabin) 4.7 Height of overhead guard (cabin) 4.8 Seat Height/Latand height 4.9 Overall height of towards bar (caupling height) 4.10 Overall height of towards bar (caupling height) 4.10 Overall height of foxed plant (caupling height) 4.11 Overall height of foxed plant (caupling height) 4.12 Height of foxed fords 4.13 Ground dicorance accentre of wheelbase 4.24 Fork carriage 150 2228 (class/form) A/B 5.1 Timing radius 4.2 Fork carriage 150 2228 (class/form) A/B 5.2 Lifting speed (foden / unladen) 5.3 Lovering speed (foden / unladen) 5.4 King speed (soden / unladen) 5.5 King ASS king 5.5 King ASS					
1.5					
Load centre of granty C S90 mm					
1.8	_				
Weelbase Weight Weight Weight Weight Weight Weight Weight Stroke Weight Stroke Weight Stroke Weight Weight on front able (luten) / rear ade (luten) A260 kg / 640 kg			С		
Veright 3100 kg			X	Load distance, centre of drive axle to fork	1.8
2.1 Service Weight 3100 kg	nm	1420 mm	у		1.9
22 Weight on front axie (laden) / rear axie (laden)	l a	2100 kg			2.1
1315 kg / 1785 kg Wheels Wheels Super Bastic	_				
Wheels 3.1 Tyres type Super Blootic	-				
3.1 Tyres type	1785 kg	1315 kg / 1785 kg		-	2.3
3.2 Dimensions of front wheels	lastic	Super Flactic			3.1
3.3 Dimensions of rear wheels 5.00 s 8PR					
3.5 Number of front wheels / rear wheels 2 / 2 3.2 Number of drive wheels 2 2 3.6 Front wheel gauge b10 900 mm 3.7 Rear wheel b11 920 mm 5.7 Rear wheel b11 920 mm 5.7 Rear wheel b11 920 mm 5.7 Rear wheel 5.7 Sear wheel 5.8 Sear wheel of overhead guard (cabin) 5.8 Sear wheel which of overhead guard 5.8 Sear wheel which of standard overhead guard 5.8 Sear which which will be sear which which which which will be sear which which which which will be search which wheel base will be search wheel base whic					
3.2 Number of drive wheels 3.6 Front wheel gauge 5.1 900 mm 3.7 Rear wheel 5.1 17 Rear wheel 5.2 18 19 19 19 19 19 19 19 19 19 19 19 19 19					
3.6 Front wheel gauge					
Sear wheel Dimensions Di		2		Number of drive wheels	3.2
Dimensions 4.1 Tilt of Mast Forward (deg) / Backward (deg) α / β 6 / 12 4.7 Height of overhead guard (cabin) h6 2090 mm 4.7 Overall height of standard overhead guard h6 2090 mm 4.8 Seat height/stand height h7 1160 mm 4.12 Height of towing bar (coupling height) h10 315 mm 4.19 Overall length l1 3350 mm 4.20 Length to face of forks l2 2280 mm 4.21 Overall width b1 1080 mm 4.22 Fork section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2228 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering sp	ım	900 mm	b10	Front wheel gauge	3.6
4.1 Tilt of Mast Forward (deg) / Backward (deg) α / β 6 / 12 4.7 Height of overhead guard (cabin) h6 2090 mm 4.7 Overall height of standard overhead guard h6 2090 mm 4.8 Seat height/stand height h7 1160 mm 4.12 Height of towing bar (coupling height) h10 315 mm 4.19 Overall length l1 3350 mm 4.20 Length to face of forks l2 2280 mm 4.21 Overall width b1 10800 mm 4.22 Forks section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A FEM 2A 4.24 Fork carriage width b3 10000 mm 115 mm 4.31 Ground clearance below mast m1 115 mm 432 4.32 Ground clearance at centre of wheelbase m2 150 mm 435 150 mm 4.35 Turning radius (over tyres) b13 55 mm 55 mm Performances 5.1 Travel speed (laden / unladen) 0.5 Nm / 0	im	920 mm	b11		3.7
4.7 Height of overhead guard (cabin) h6 2090 mm 4.7 Overall height of standard overhead guard h6 2090 mm 4.8 Seat height/stand height h7 1160 mm 4.12 Height of towing bar (coupling height) h10 315 mm 4.19 Overall length l1 3350 mm 4.20 Length to face of forks l2 2280 mm 4.21 Overall width b1 1080 mm 4.22 Forks section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance below mast m2 150 mm 4.35 Turning radius (over tyres) b13 55 mm Performances Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm		- 1.5	15		
4.7 Overall height of standard overhead guard h6 2090 mm 4.8 Seat height/stand height h7 1160 mm 4.12 Height of towing bar (coupling height) h10 315 mm 4.19 Overall length l1 3350 mm 4.20 Length to face of forks l2 2280 mm 4.21 Overall width b1 1080 mm 4.22 Forks section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm					
4.8 Seat height/stand height h7 1160 mm 4.12 Height of towing bar (coupling height) h10 315 mm 4.19 Overall length I1 3350 mm 4.20 Length to face of forks I2 2280 mm 4.21 Overall width b1 1080 mm 4.22 Forks section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	nm	2090 mm	h6		4.7
4.12 Height of towing bar (coupling height) h10 315 mm 4.19 Overall length l1 3350 mm 4.20 Length to face of forks l2 2280 mm 4.21 Overall width b1 1080 mm 4.22 Forks section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm	nm	2090 mm	h6	Overall height of standard overhead guard	4.7
4.19 Overall length 11 3350 mm 4.20 Length to face of forks 12 2280 mm 4.21 Overall width b1 1080 mm 4.22 Forks section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm	nm	1160 mm	h7	Seat height/stand height	4.8
Length to face of forks 12 2280 mm 4.21 Overall width b1 1080 mm 4.22 Forks section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.4 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.4 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.5 Covering speed (laden / unladen) 0.5 Nm / 0.55 Nm	ım	315 mm	h10	Height of towing bar (coupling height)	4.12
4.21 Overall width b1 1080 mm 4.22 Forks section / width / length s / e / l 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	nm	3350 mm	l1	Overall length	4.19
4.22 Forks section / width / length s / e / I 35 mm x 100 mm x 1070 mm 4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	nm	2280 mm	12	Length to face of forks	4.20
4.23 Fork carriage ISO 2328 (class/form) A/B FEM 2A 4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	nm	1080 mm	b1	Overall width	4.21
4.24 Fork carriage width b3 1000 mm 4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	n x 1070 mm	35 mm x 100 mm x 1070 r	s / e / I	Forks section / width / length	4.22
4.31 Ground clearance below mast m1 115 mm 4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	2A	FEM 2A		Fork carriage ISO 2328 (class/form) A/B	4.23
4.32 Ground clearance at centre of wheelbase m2 150 mm 4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	nm	1000 mm	b3	Fork carriage width	4.24
4.35 Turning radius Wa 2010 mm 4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	ım	115 mm	m1	Ground clearance below mast	4.31
4.36 Internal turning radius (over tyres) b13 55 mm Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	ım	150 mm	m2	Ground clearance at centre of wheelbase	4.32
Performances 5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	nm	2010 mm	Wa	Turning radius	4.35
5.1 Travel speed (laden / unladen) 18.6 km/h / 19.3 km/h 5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	m	55 mm	b13	Internal turning radius (over tyres)	4.36
5.2 Lifting speed (laden / unladen) 0.5 Nm / 0.55 Nm 5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm				Performances	
5.3 Lowering speed (laden / unladen) 0.5 Nm / 0.55 Nm	19.3 km/h	18.6 km/h / 19.3 km/h		Travel speed (laden / unladen)	5.1
	.55 Nm	0.5 Nm / 0.55 Nm		Lifting speed (laden / unladen)	5.2
55 Drawbar pull (Ladon / Lipladon)	.55 Nm	0.5 Nm / 0.55 Nm		Lowering speed (laden / unladen)	5.3
5.5 brawbar puli (Lauerr) 1440 / 795	795	1440 / 795		Drawbar pull (Laden / Unladen)	5.5
5.8 Gradeability - laden (%) / unladen (%) 20 / 20	20	20 / 20		Gradeability - laden (%) / unladen (%)	5.8
5.10 Service brake Hydraulic	ulic	Hydraulic		Service brake	5.10
Engine				Engine	

	Engine	
7.1	Engine brand / model / norm	Yanmar / 4TNE92-HRJ / Stage 3A
7.2	Engine power according to ISO 1585	32.8 kW
7.3	Rated speed (rpm)	2450
7.4	Number of cylinders / Capacity of cylinders	4-2659 cm³
7.5	Fuel consumption according to VDI cycle	3,26
	Miscellaneous	
8.2	Working hydraulic pressure for attachments (bar)	160 Bar
8.3	Oil flow rate for attachments (I/min)	56
8.4	Measured/guaranteed mean noise level at the ear of the operator	86

Dimensional drawing

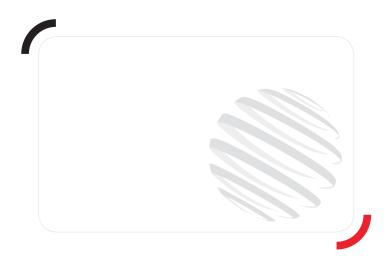


Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 33	FVD 37	FVD 40
h2 - Free lift	mm	155	155	155
h1 - Height mast Lowered	mm	2145	2395	2595
h3 - Lifting Height	mm	3300	3700	4000
h4 - Height mast extended	mm	3865	4265	4600
α / β - Mast inclination (front / rear)		6 / 12	6 / 12	6 / 12
Residual Capacity without attachment (Industrial load chart)	kg	1500	1500	1500
Residual Capacity with integrated side shift (Industrial load chart)	kg	1500	1500	1500
Height at max capacity	mm	3300	3700	

Free Lift Duplex		FLD 33	FLD 37	FLD 40
h2 - Free lift	mm	1575	1775	1975
h1 - Height mast Lowered	mm	2160	2360	2560
h3 - Lifting Height	mm	3300	3700	4000
h4 - Height mast extended	mm	3885	4285	4585
α / β - Mast inclination (front / rear)		6 / 12	6 / 12	6 / 12
Residual Capacity without attachment (Industrial load chart)	kg	1500	1500	1500
Residual Capacity with integrated side shift (Industrial load chart)	kg	1500	1500	1500
Height at max capacity	mm	3300	3700	

Free Lift Triplex		FLT 43	FLT 45	FLT 47	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
h2 - Free lift	mm	1400	1500	1585	1600	1685	1885	2100	2200
h1 - Height mast Lowered	mm	2070	2120	2170	2220	2270	2470	2720	2870
h3 - Lifting Height	mm	4300	4500	4700	4800	5000	5500	6000	6500
h4 - Height mast extended	mm	4980	5130	5380	5430	5595	6095	6730	7180
α / β - Mast inclination (front / rear)		6/6	6/6	6/6	6/6	6/6	3/6	3/6	3/6
Residual Capacity without attachment (Industrial load chart)	kg	1350	1300	1250	1250	1200	950	700	
Residual Capacity with integrated side shift (Industrial load chart)	kg	1350	1300	1150	1150	1100	850	600	





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