



Product Information

REFLEX

RR M 12

RR M 14

RR M 16



Reach Truck

BT M-series are trucks available within BT's range with capacity up to 1600kg and lift heights up to 8.5 metres. Each truck is configured to provide the optimum chassis / battery / mast combination according to the requirements of the application. The M 12, M14, M 16 are the perfect choice for the customer in need of a multipurpose reach truck with a maximum of cost efficiency.

- Two different masts — tilting mast on M 12 or mast with tilting forks on M 14 and M 16.
- Excellent driver ergonomics, with adjustable seat, pedals and BT Control console, with electronic control of all hydraulic functions.
- Panoramic vision through clear view mast and overhead guard. Visibility window for improved rear view.
- 360° electronic, progressive and programmable steering.
- Very fast acceleration and maximum speed due to AC-powered drive motor.
- Three push-buttons located on the dashboard allow easy selection of performance parameters. Standard set-up choices available. Up to 10 PIN numbers available to provide access control.
- Electronic regenerative braking (motor braking, pedal braking or change of drive direction). Programmable to suit the driver.
- Parking brake is automatically applied when the truck is stationary, and automatically releases when the accelerator is depressed.
- State-of-the-art electronic system, incorporating CAN and Mosfet technology — requiring less wiring and giving greater reliability.
- Electronic fault diagnosis and historic logging. Error and caution codes alert the driver and reduce speed or stop the truck. A service timer counts time to next service and alerts the driver when it is due.

Technical Details		RR M 12		RR M 14		RR M 16	
Power unit		electric					
Operating type		ride on					
Rated capacity	kg	1200		1400		1600	
Load centre	mm	600		600		600	
Weight without battery	kg	1915 (h ₃ =4800mm)		2040 (h ₃ =5400mm)		2575 (h ₃ =8500mm)	
Max. axle load front without/with rated load	kg	1430/3330		1640/3930		2118/4685	
Max. axle load rear, without/with rated load	kg	1630/1340		1690/1300		2003/1580	
Wheel type, front/rear		polyurethane		polyurethane		polyurethane	
dimension, front/rear	mm	Ø 285/310		Ø 285/310		Ø 285/310	
Tilting system	°	Mast tilt, +2/-0.5		Fork tilt, +4/-2		Fork tilt, +4/-2	
Travel speed, without/with rated load	km/h	11.2/10.1		11.2/10.0		11.2/10.0	
Lift speed, without/with rated load	m/s	0.42/0.29		0.42/0.27		0.42/0.25	
Lowering speed, without/with rated load	m/s	0.47/0.47		0.44/0.50		0.44/0.50	
Gradient, without/with rated load	%	15/10		15/10		15/10	
Acc. time, 0—9 m, without/with rated load	s	4.7/5.3		4.7/5.3		4.6/5.2	
Service brake		electric					
Parking brake		autom. electr. magnetic					
Drive motor rating (S2 60')	kW	5.5		5.5		5.5	
Lift motor rating (S3 15%)	kW	7.4		7.4		7.4	
Steering system		electronic					
Speed control, number of steps		transistor, stepless					
Number of steering wheel turnings		endless					

Dimensions, mm		RR M 12		RR M 14		RR M 16	
y	Wheel base	1434		1434		1434	
h ₆	Height of cab	2166		2166		2166	
h ₈	Height of support arm	262		262		262	
b ₁₄	Width of support arm	120		120		120	
h ₁₃	Height of lowered fork	40		40		40	
b ₁	Chassis, width	1120		1120		1120	
e	Fork width	100		100		100	
l	Fork length	1000, 1150		1000, 1150		1000, 1150	
b ₅	Width across fork						
	without sideshift	250—720		250—720		250—720	
	with sideshift	250—600		250—600		250—600	
b ₄	Width between support arms	880		880		880	
m ₁	Floor clearance	70 ¹⁾		70 ¹⁾		70 ¹⁾	
W _a	Turning radius	1649		1649		1649	
l ₇	Truck length excl. fork	1808		1808		1808	

Dimensions — Battery compartment			RR M 12			RR M 14			RR M 16		
x	Front axle to fork face										
	without sideshift	mm	449 ²⁾	384 ²⁾	294 ²⁾	418	353	263	400	335	245
	with sideshift	mm	394	329	239	380	315	225	362	297	207
	with rollerbed, incl. sideshift	mm	369	304	214	355	290	200	337	272	182
l ₂	Truck length incl. fork front face										
	without sideshift	mm	1182	1247	1337	1231	1296	1386	1249	1314	1404
	with sideshift	mm	1237	1302	1392	1269	1334	1424	1287	1352	1442
	Battery capacity, 48 V	Ah	292—	360—	480—	292—	360—	480—	292—	360—	480—
	Battery weight, min.	kg	300	450	600	300	450	600	300	450	600
	Depth	mm	510	610	780	510	610	780	510	610	780
		mm	275	340	430	275	340	430	275	340	430

1) 15mm under studs

2) Based on Triplex mast

Truck performance and dimensions are nominal and subject to tolerances.

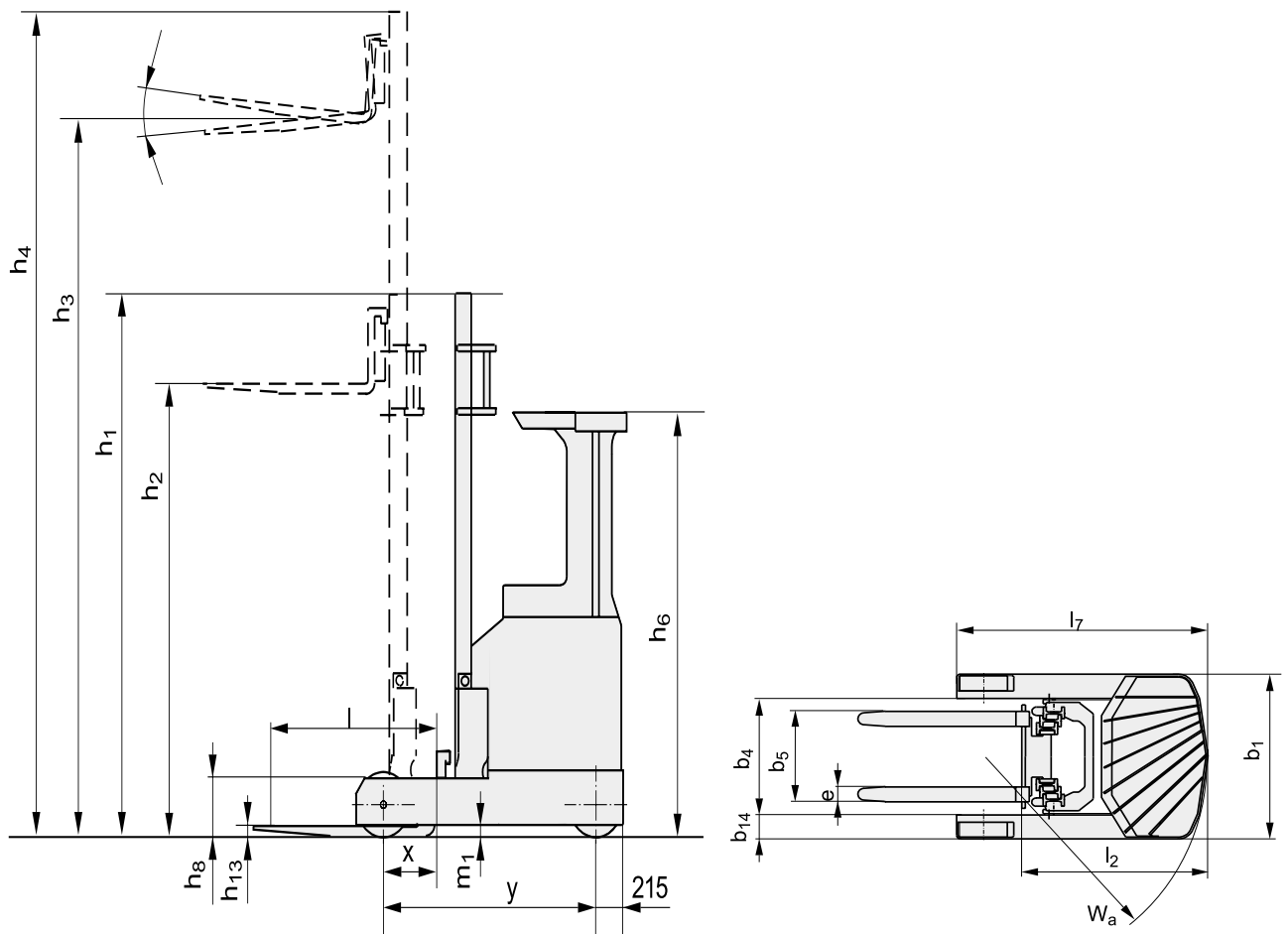
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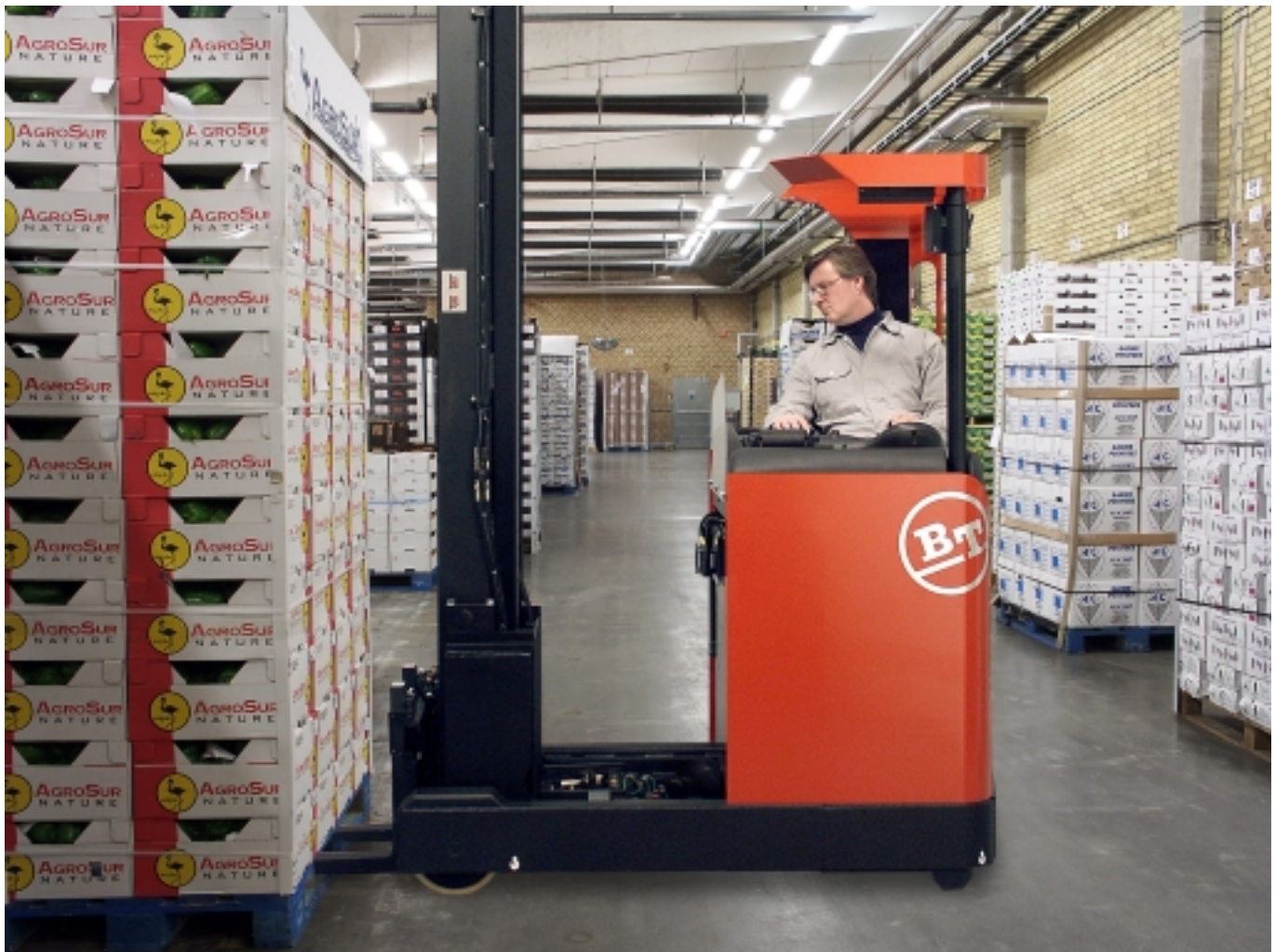
All data is based on VDI 2198.

Mast, mm																
RR M 12																
h₃	Lift height	3350	3750	4150	4400	4500	4800	5400	5700	6000	6300	6750	7000	7500	8000	8500
Duplex Tele																
h ₁	Height of mast, min.	2194	2404	2604												
h ₂	Free lift	—	—	—												
h ₄	Height of mast, max.	3849	4259	4659												
Duplex Hi-Lo																
h ₁	Height of mast, min.	2194	2404	2604												
h ₂	Free lift	1725	1925	2125												
h ₄	Height of mast, max.	3849	4259	4659												
Triplex Hi-Lo																
h ₁	Height of mast, min.			1930		2047	2147	2347		2647						
h ₂	Free lift			1457		1574	1674	1874		2174						
h ₄	Height of mast, max.			4654		5004	5304	5904		6504						

Mast, mm																
RR M 14																
h₃	Lift height	3350	3750	4150	4400	4500	4800	5400	5700	6000	6300	6750	7000	7500	8000	8500
Triplex Hi-Lo																
h ₁	Height of mast, min.				2057		2190	2390	2490		2690					
h ₂	Free lift				1416		1549	1749	1849		2049					
h ₄	Height of mast, max.				5040		5440	6040	6340		6940					

Mast, mm																
RR M 16																
h₃	Lift height	3350	3750	4150	4400	4500	4800	5400	5700	6000	6300	6750	7000	7500	8000	8500
Triplex Hi-Lo																
h ₁	Height of mast, min.				2057		2190	2390	2490		2732	2981	3064	3231	3398	3564
h ₂	Free lift				1416		1549	1749	1849		2091	2340	2423	2590	2757	2923
h ₄	Height of mast, max.				5040		5440	6040	6340		6940	7390	7640	8140	8640	9140





Options

- Side shift
- Load support
- Narrow overhead guard
- Cold store version



The product complies with the EC-directives



BT Industries

Developed and produced by
BT Products AB



SS-EN ISO 9001, No. 003
ISO 14001, No. M005

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