New Reach Truck
XR09

Added value
for your warehouse

The Reach Truck XR[09] is ideal for handling palletized loads in warehouses and distribution centres where high levels of **efficiency** and **speed** are crucial. This very reliable truck has been designed to ensure high levels of **productivity** and intensive use, including driving over long routes on smooth, even surfaces and operating continuously. The possibility to simultaneously control all the hydraulic functions and so perform combined movements is an important **plus** because this truck can thus achieve **superior levels of performance**.

Outstanding performance, high productivity

Stability, solidity and compactness

The high-strength steel chassis plus technological solutions inspired by the automotive industry provides the XR[09] with a solid load-bearing structure while still maintaining its **lean**, **dynamic design**. The detailed analysis of the distribution of the masses involved guarantees **maximum stability** in all operating situations. Nominal capacities from 1200 to 2000 kg, with Triplex full free lift masts ensure **excellent residual capacities** and **high visibility** for reaching working heights of up to 11,525 mm in **complete safety**.

Maximum reliability

The XR[09] Reach Truck has proven itself to be a champion of **reliability**, requiring less maintenance which has been greatly simplified by the easy access to the service components and **intuitive diagnostics** through a dedicated, easy-to-use console. The XR[09] truck is equipped with modern AC motors and electrical systems and wiring protected to IP 45 at a minimum, meaning that it is dust-proof and spray-proof.

Conformity to european standards

Having passed all the tests required in order to obtain the CE mark, such as the structural strength analysis, stability test, visibility test, electromagnetic compatibility test and the noise and vibration test, the XR[09] Reach Truck has been designed and manufactured to **the European Machinery Directive** standards.
The XR[09] truck can load and unload rapidly even in **narrow storage aisles**.

Safety
and ergonomics

The cab of the XR[09] has been specifically designed around the operator, providing complete safety and protection and easy reach of all the controls. Both the hydraulic functions and the electrical controls have been **ergonomically** arranged for easy access and intuitive operation. All the proportionally controlled hydraulic functions are operated by means of potentiometric micro-levers ("**fingertips**") to ensure smooth, precise **control** of movements. A soft armrest covered in breathable fabric allows the operator to work in total comfort. The steering wheel with knob has a small diameter so that the truck can be **manoeuvred quickly and effortlessly**.

Driving comfort and visibility

The driver's seat is upholstered in strong, breathable fabric and is higher than in most reach trucks, providing the operator greater **visibility**. The bucket suspension seat can be **adjusted and adapted** to the operator's height and weight to ensure maximum **driving comfort**.

Adaptability and adjustment

The steering column can also be tilted into the most suitable position, and a large, comfortable headrest allows the operator to keep his/her head in the right position without having to bend or lean forward. The overhead guard profiles have been configured to provide the greatest **visibility** of the shelving. The foot mat is soft and ensures the proper grip.

Information and customization

The multifunctional LCD display allows the operator to see all the information about the status and operation of the machine and any optional equipment. Up to 5 different work programs can be selected to meet various specific needs (4 preset speed profiles that can be operated from the display + 1 slow operation profile that can be operated directly with the "tortoise" button).

Winning technology solutions

All the models in the XR[09] series are equipped with strong, powerful traction motors that can reach **the top speeds** within the entire product range (**12 km/h**).
The proportional valve technology ensures smooth, precise operation of the hydraulic functions and allows them to be **combined**, an outstanding advantage in terms of **productivity**.

The side-shift function has been integrated into the fork carriage, while the **tilting function** is now available **on the entire mast** up to lifting heights of 7,100 mm, **as well as on the forks only**.

Braking systems

As many as 3 **independent braking systems** are standard equipment on all the XR[09] models: the electric brake with **energy recovery**, which is activated when the accelerator pedal is released or the direction of travel is reversed; the hydraulic brake, which acts on the two load wheels when the brake pedal is pressed; the electromagnetic parking brake, which is activated in parking mode when the truck is switched off or in emergency mode when the red safety button is pressed.

Energy savings

The combination of high-performance motors and a state-of-the-art electronic control system allows the XR09 to **optimize its use of energy**, thus **reducing consumption** and extending the life of the battery, which occurs for example in the case of energy recovery whenever the brake is operated.

Eco-sustainability

The XR09 Reach Truck is built entirely with eco-friendly components, using **recyclable materials** and high-quality technological processes that also reduce **waste** to a minimum. Even the painting process of the XR09 is controlled so that it does not produce environmentally harmful emissions.

State-of-the-art electronic systems

The XR09 uses a **high-frequency electronic system** for traction and lift control to guarantee silent operation and energy savings. A separate electronic system controls the electric power steering, while data transmission is managed through a **can-bus system**. All the machine's **performance parameters**, such as traction speed and acceleration, electric braking and hydraulic functions, can be **adjusted** to suit the operator's preferences.

XR09 Technical data

VDI 2198

Specification	1.1	Manufacturer			OM	
	1.2	Model			**XR09 12**	
	1.3	Power unit			electric	
	1.4	Operator type			seated	
	1.5	Loading capacity		Q (t)	1,2	
	1.6	Centre of gravity		c (mm)	600	
	1.8	Load distance, centre of drive axle to fork		x (mm)	376 (2)	303 (2)
	1.9	Wheel base		y (mm)	1370	
Weights	2.1	Weight battery included		kg	3110	3310
	2.3	Axles unladen weight		kg	2020 / 1090	2070 / 1240
	2.4	Axles laden weight - reach out		kg	690 / 3820	800 / 3910
	2.5	Axles laden weight - reach in		kg	1790 / 2720	1765 /2945
Wheels and Tyres	3.1	Tyre type			VULKOLLAN	
	3.2	Size of traction wheels		mm	343 x 136	
	3.3	Size of load wheels		mm	310 x 102	
	3.5	Wheels: number at front/back	(x = traction)		1x / 2	
	3.6	front track (drive wheels)		b10 (mm)	-	
	3.7	Rear track (load wheels)		b11 (mm)	1140	
Dimensions and Overall Sizes	4.1	Tilt (forward α / backward β)	Mast tilt h3 ≤ 5750	degrees (°)	-1 / +3	
			Mast tilt h3 ≥ 5900		-0,5 / +2	
			Fork tilt		-2 / +4	
	4.2	Closed mast height		h1 (mm)	see table	
	4.3	Free lift		h2 (mm)	see table	
	4.4	Lifting range		h3 (mm)	see table	
	4.5	Height of mast extended		h4 (mm)	see table	
	4.7	Height of driver's overhead guard		h6 (mm)	2200	
	4.8	Height of seat		h7 (mm)	1050	
	4.10	Height of reach legs		h8 (mm)	330	
	4.19	Total length		l1 (mm)	2400 (1)	2473 (1)
	4.20	Length to fork face		l2 (mm)	1250 (1)	1323 (1)
	4.21	Total width		b1 (mm)	1250	
	4.22	Fork dimensions		s/e/l (mm)	40 / 100 / 1150	
	4.23	Fork carriage			FEM II B	
	4.25	Forks spread (outside)		b5 (mm)	620	
	4.26	Reach legs width (inside)		b4 (mm)	914	
	4.28	Reach		l4 (mm)	586 (2)	513 (2)
	4.31	Ground clearance under mast - laden		m1 (mm)	100	
	4.32	Ground clearance at wheel-base centre - laden		m2 (mm)	76	
	4.33	90° stacking aisle 1000 x 1200 crosswise		Ast (mm)	2699 (3)	2753 (3)
	4.34	90° stacking aisle 1200 x 800 crosswise		Ast (mm)	2749 (4)	2815 (4)
Performances	4.35	Minimum turning radius		Wa (mm)	1633	
	4.37	Length including reach legs		l7 (mm)	1798	
	5.1	Travel speed	(loaded/unloaded)	km/h	12 / 12	
	5.2	Lifting speed	(loaded/unloaded)	m/s	0,38 / 0,60	
	5.3	Lowering speed	(loaded/unloaded)	m/s	0,52 / 0,44	
	5.7	Max gradient KB30'	(loaded/unloaded)	%	10 / 15	
Engines	5.8	Max climbing gradient KB5'	(loaded/unloaded)	%	10 / 15	
	5.10	Service brake				
	6.1	Traction motor, performance KB 60'		kW	6	
	6.2	Lifting motor, performance 15% ED		kW	11,5	
	6.3	Battery standard			DIN 43531 C	
	6.4	Voltage / Rated capacity		V / Ah	48 / 420	48 / 560
Others	6.5	Weight of battery (+/-5%)		kg	750	939
	6.6	Power consumption according to VDI cycle		kWh/h	4,6	
	8.1	Type of control			Electronic tri-phase	
	8.2	Working pressure for attachment		bar	140	
	8.3	Oil capacity		l/min	18	
	8.4	Noise level for operator		dB (A)	< 70	

For tilting masts without sideshift:
(1) Δ= - 31mm (2) Δ= + 31mm
(3) Δ= - 23 mm (4) Δ= - 28mm

Values reported are meant to be indicative and not binging and refer to standard versions.

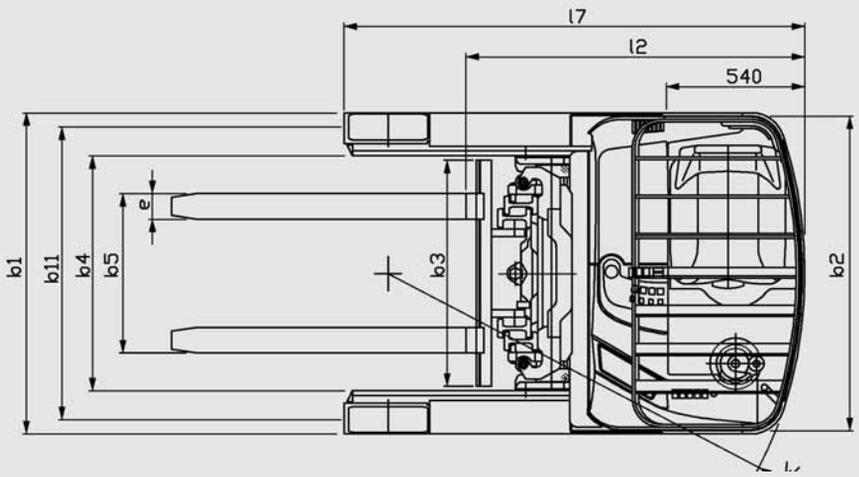
OM			OM			OM			OM			
XR[09] 14			**XR[09] 16**			**XR[09] 20**			**XR[09] 20** with reinforced mast			
electric			electric			electric			electric			
seated			seated			seated			seated			
1,4			1,6			2			2			
600			600			600			600			
376 (2)	303 (2)	230 (2)	438 (2)	365 (2)	292 (2)	437			364			
1370			1442			364			1514			
3110	3310	3500	3140	3340	3530	1514	3520	3710	4150			
2020 / 1090	2070 / 1240	2100 / 1400	2070 / 1070	2125 / 1215	2160 / 1370	2280 / 1240		2330 / 1380	2480 / 1670			
690 / 3820	800 / 3910	895 / 4005	620 / 4120	730 / 4210	830 / 4300	675 / 4845		775 / 4935	755 / 5395			
1790 / 2720	1765 /2945	1720 / 3180	1890 / 2850	1860 / 3080	1820 / 3310	2070 / 3450		2015 / 3695	2170 / 3980			
VULKOLLAN			VULKOLLAN			VULKOLLAN			VULKOLLAN			
343 x 136			343 x 136			343 x 136			343 x 136			
310 x 102			310 x 102			310 x 102			310 x 102			
1x / 2			1x / 2			1x / 2			1x / 2			
-			-			-			-			
1140			1140			1140			1140			
-1 / +3			-1 / +3			-			-			
-0,5 / +2			-0,5 / +2			-			-			
-2 / +4			-2 / +4			-2 / +4			-2 / +4			
see tablele			see tablele			see tablele			see tablele			
see tablele			see tablele			see tablele			see tablele			
see tablele			see tablele			see tablele			see tablele			
see tablele			see tablele			see tablele			see tablele			
2200			2200			2200			2200			
1050			1050			1050			1050			
330			330			330			330			
2400 (1)	2473 (1)	2546 (1)	2410 (1)	2483 (1)	2556 (1)	2483		2556	2556			
1250 (1)	1323 (1)	1396 (1)	1260 (1)	1333 (1)	1406 (1)	1333		1406	1406			
1250			1250			1250			1250			
40 / 100 / 1150			50 / 100 / 1150			50 / 100 / 1150			50 / 100 / 1150			
FEM II B			FEM II B			FEM II B			FEM II B			
620			620			620			620			
914			914			914			914			
586 (2)	513 (2)	440 (2)	658 (2)	585 (2)	512 (2)	657		586	586			
100			100			100			100			
76			76			76			76			
2699 (3)	2753 (3)	2809 (3)	2724 (3)	2776 (3)	2830 (3)	2793		2844	2844			
2749 (4)	2815 (4)	2882 (4)	2763 (4)	2828 (4)	2894 (4)	2831		2897	2897			
1633			1702			1770			1770			
1798			1870			1942			1942			
12 / 12			12 / 12			12 / 12			12 / 12			
0,38 / 0,60			0,32 / 0,60			0,18 / 0,48			0,26 / 0,26			
0,52 / 0,46			0,54 / 0,46			0,50 / 0,40			0,50 / 0,50			
10 / 15			10 / 15			9,5 / 15			9 / 15			
10 / 15			10 / 15			9,5 / 15			9 / 15			
Generator / Hydromechanic with pedal on load wheels												
6			6			6			6			
11,5			11,5			11,5			11,5			
DIN 43531 C			DIN 43531 C			DIN 43531 C			DIN 43531 C			
48 / 420	48 / 560	48 / 700	48 / 420	48 / 560	48 / 700	48 / 560		48 / 700	48 / 700			
750	939	1119	750	939	1119	939		1119	1119			
4,9			5,2			5,2			6,3			
Electronic tri-phase			Electronic tri-phase			Electronic tri-phase			Electronic tri-phase			
140			140			140			140			
18			18			18			18			
< 70			< 70			< 70			< 70			

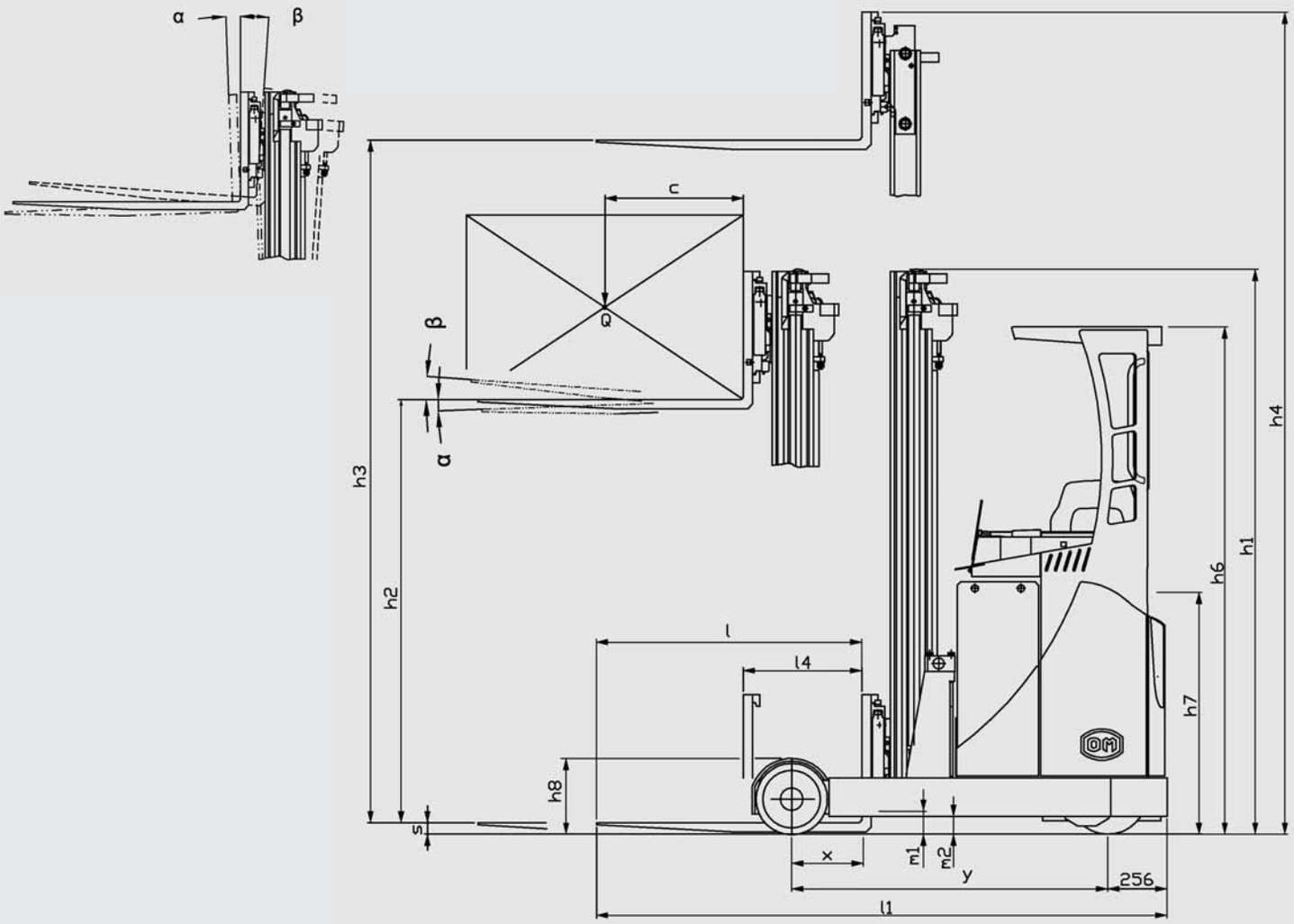
XR[09] Technical data

$$Ast = W_a + R + a$$

$$R = \sqrt{(l_6 - x)^2 + \left(\frac{b_{12}}{2}\right)^2}$$

a = 200 mm





RESIDUAL CAPACITIES

	h3 [mm]	4825	5000*	5575	5750*	6625	6500*	7100*	7825	8375	8825	9225	9625	10025	10625	11525
	h2 [mm]	1570	1570	1820	1820	2170	2070	2270	2570	2820	2970	3270	3270	3670	3870	4270
	h1 [mm]	2200	2200	2450	2450	2800	2700	2900	3200	3450	3600	3900	3900	4300	4500	4900
Capacity [kg]	h4 [mm]	5455	5630	6205	6380	7255	7130	7730	8455	9205	9455	9855	10255	10655	11255	12155
XR09 12	Battery tray 323 (375-420-465 Ah)	-	1200	-	1200	-	1000	-	-	-	-	-	-	-	-	-
	Battery tray 324 (500-560-620 Ah)	-	1200	-	1200	-	1050	-	-	-	-	-	-	-	-	-
XR09 14	Battery tray 323 (375-420-465 Ah)	-	1400	-	1400	-	1300	1250	-	-	-	-	-	-	-	-
	Battery tray 324 (500-560-620 Ah)	-	1400	-	1400	-	1400	1300	1250	1100	1050	-	800	-	-	-
	Battery tray 325 (625-700-775 Ah)	-	1400	-	1400	-	1400	1350	1350	1200	1150	-	950	-	-	-
XR09 16	Battery tray 323 (375-420-465 Ah)	-	1600	-	1600	-	1500	1400	-	-	-	-	-	-	-	-
	Battery tray 324 (500-560-620 Ah)	-	1600	-	1600	-	1600	1600	1600	1500	1400	-	1200	-	-	-
	Battery tray 325 (625-700-775 Ah)	-	1600	-	1600	-	1600	1600	1600	1500	1400	-	1300	-	-	-
XR09 20	Battery tray 324 (500-560-620 Ah)	2000	-	1900	-	1700	-	-	-	-	-	-	-	-	-	-
	Battery tray 325 (625-700-775 Ah)	2000	-	2000	-	1900	-	-	1700	1600	1500	-	1300	-	-	-
XR09 20 Heavy Duty	Battery tray 325 (625-700-775 Ah)	-	-	-	-	-	-	-	-	-	-	1450	-	1300	1150	850

* Available both with tilting on mast and with tilting on forks

Accessories and special versions

A wide range of accessories is available for the XR09 series, such as the **joystick** for controlling all the functions, the **working lights**, the **camera on the forks** to facilitate loading and unloading operations at maximum heights, the **altimeter** to see the lift height of the forks and the **height preselector** for setting up to 160 predefined height levels, which can be selected by the simple press of a button. The XR09 is also available in "**drive-in**" and "**cold stores**" versions, with or without safety cab.

Reliability
Customer’s friendliness
Dynamism

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Reliability

Each OM product
brings inside more than 50
years of experience in the sector

Customer’s friendliness

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have been conceived and designed
to lighten your workload

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OM pallet trucks carry
on your requests

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Si ringrazia l’azienda Fabrizio Ing. Plinio S.p.A. di Oderzo (TV) per la gentile collaborazione.