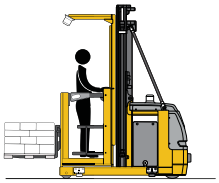
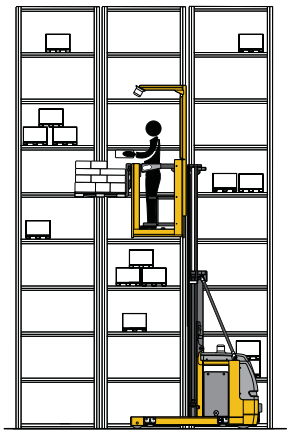
High Level Vertical Order
Picking Truck

903 ac





Ideal for applications in free or guided aisles for medium and high level order picking operations. The 2.6 kW ac traction motor, the 4 kW lifting motor and the electronic control ensure manoeuvrability and deliver the necessary power in all the working applications including the most intensive ones. The 24 V standard configuration, the comfortable operator's position with operator protection and the intermediate lift of the forks ensure efficient manual picking operations at high level up to 6.600 mm picking height. The ac technology grants high performances with less maintenance costs.

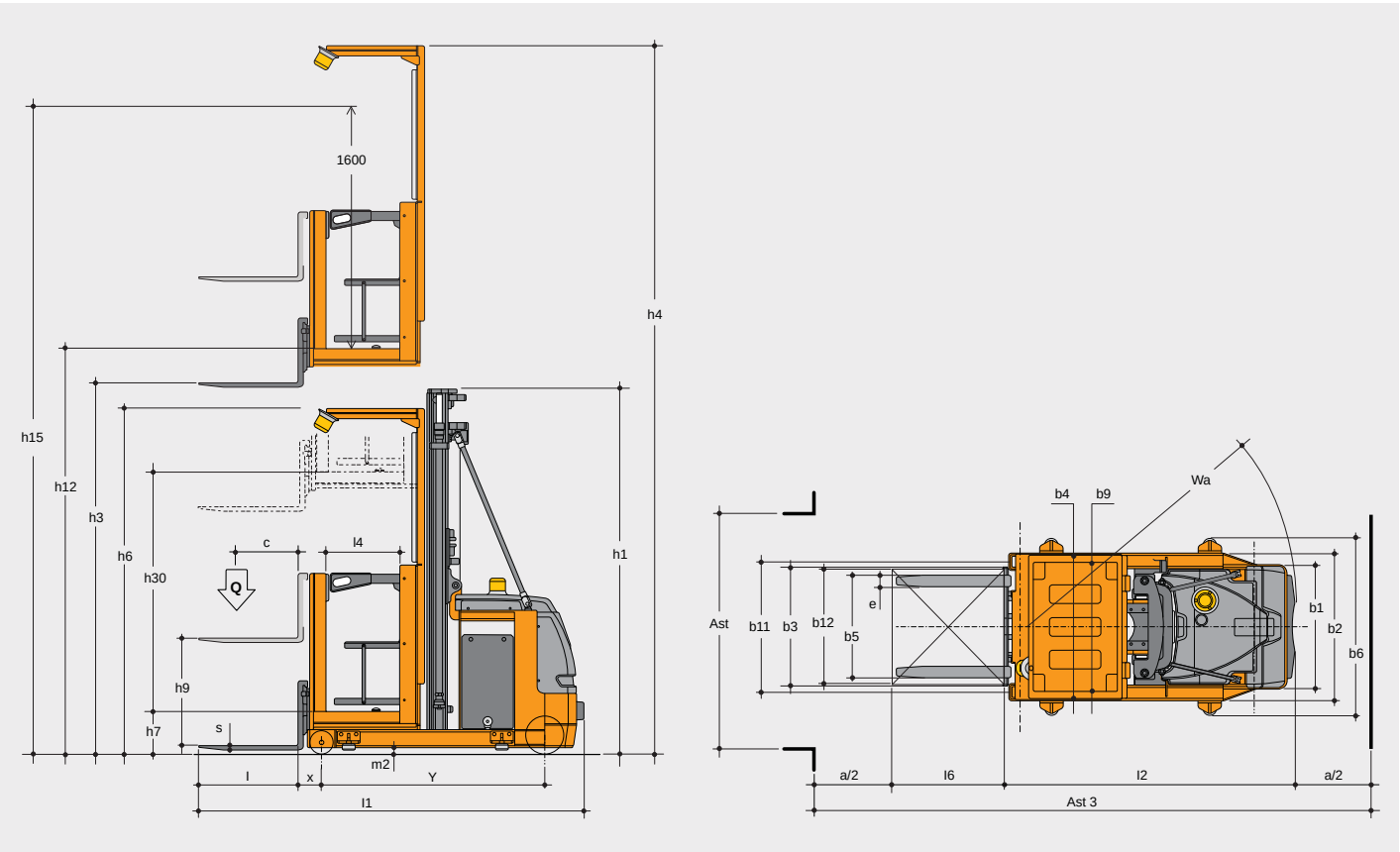
Operator's position
The wide cab is designed for a standing operator, and the dimensions are projected to facilitate all typical movements of the operator. All the controls are integrated in an ergonomic multifunction monojoystick operated by the right hand, while the steering is operated by the left hand. The wide side gates opening allow easy access and free dismount for the operator. The standard cabin courtesy lights make it easier to read picking orders even in poorly lit aisles.

Lift mast
Two stage lift masts made from cold-drawn sections to ensure torsional and bending rigidity. The lift cylinders are outside the mast profile and the chains are in a protected position to provide a perfect visual field and safe manoeuvrability.

Hydraulic system
Powerful and noiseless electronically-controlled lift motor regulates the pump rpm, always providing the right quantity of oil. All the hydraulic functions are controlled by proportional solenoids which ensure precise and safe load handling for the operator. Controlled cabin descent and lift assures a linear movement without jolts, thus improving operator comfort.

Characteristics	1.1	Manufacturer			OMG S.p.A.		
	1.2	Model			**903 ac**		
	1.3	Drive			electric		
	1.4	Operator type			order picking		
	1.5	Load capacity / rated load	Q	t	0.6 - 0.8 - 1.0	1.0	
	1.6	Load centre distance	c	mm	400	600	
	1.8	Load distance (centre of load axle to fork face)	x	mm	140		
	1.9	Wheelbase	y	mm	1.490	1.680	
Weights	2.1	Service weight incl. battery (see line 6.5)		kg	2.305		
	2.2	Axle loading, laden front / rear		kg	812 / 2.554		
	2.3	Axle loading, unladen front / rear		kg	1.238 / 1.064		
Wheels Chassis	3.1	Tires			polyurethane		
	3.2	Tire size, front		mm	256		
	3.3	Tire size, rear		mm	150		
	3.5	Wheels, number front / rear (x = driven wheels)		n°	1x / 2		
	3.6	Track width, front	b_{10}	mm	840		
	3.7	Track width, rear	b_{11}	mm	/		
Basic dimensions	4.2	Mast lowered height	h_1	mm	3.090		
	4.4	Lift height	h_3	mm	/		
	4.5	Mast extended height	h_4	mm	7.020		
	4.7	Overhead load guard (cab) height	h_6	mm	2.400		
	4.8	Seat height / platform height	h_7	mm	300		
	4.11	Additional lift	h_9	mm	700		
	4.14	Platform height, elevated	h_{12}	mm	5.000		
	4.16	Platform length	l_3	mm			
	4.19	Overall length	l_1	mm	2.610	3.251	
	4.20	Length to face of forks	l_2	mm	1.820	2.101	
	4.21	Overall width	b_1/b_2	mm	800 / 950		
	4.22	Forks dimensions	s/e/l	mm	30 / 100 / 790	30 / 100 / 1.150	
	4.24	Fork carriage width	b_3	mm	750 - Fem 2A		
	4.25	Width over forks	b_5	mm	750		
	4.26	Distance between support arms	b_4	mm	835		
	4.27	Width across guide rollers	b_6	mm	variable		
	4.31	Ground clearance under mast	m_1	mm			
	4.32	Ground clearance, centre of wheelbase	m_2	mm	40		
	4.33	Aisle width for pallets 800 x 1200 crossways	Ast_3	mm	3.175	3.375	
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	1.150		
	4.35	Turning radius	W_a	mm	1.750	1.950	
	4.40	Picking height (h12 + 1600)	h_{15}	mm	6.600		
	4.42	Pallet width	b_{12}	mm	1.200		
	4.43	Pallet length	l_6	mm	800		
	4.44	Operator's working place width	b_9	mm	860		
	4.45	Operator's cab height	h_{30}	mm	1.956		
	4.46	Operator's cab width	l_4	mm	500		
		Platform length / height / width		mm	857/1.956/500		
Performances	5.1	Travel speed laden / unladen		km/h	8.0 / 8.2		
	5.2	Lifting speed laden / unladen		m/s	0.19 / 0.23		
	5.3	Lowering speed laden / unladen		m/s	0.33 / 0.25		
	5.7	Max gradient performance laden / unladen S2 30 min		%			
	5.9	Acceleration time, laden / unladen		s			
	5.10	Service brake			inversion		
	5.11	Parking brake			electro-magnetical		
Electric Motor	6.1	Traction motor, rating S2 60 min		kW	2.6		
	6.2	Lift motor, rating S3 15%		kW	4		
		Lift motor, rating S3 5%		kW			
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no			DIN		
	6.4	Battery voltage, nominal capacity K5		V/Ah	24 / 460 - 500*		
	6.5	Battery weight		kg	360		
Others	8.1	Type of drive control			inverter AC		
	8.4	Sound level at driver's ear according to EN 12 053		dB(A)	< 70		
	8.6	Steering			electric		
					* option		

Technical specification according to VDI 2198, technical values are referred to the standard product. Different masts, different tires, additional equipment, etc. could produce other values. Information and data are given for information only, OMG S.p.A. will have the sole right for technical changes and improvements without giving any notice.



Standard masts						
Denomination		Mast lowered height h_1	Stand height elevated h_{12}	Picking height h_{15}	Lift height h_3	Mast extended height h_4
Duplex	mm	2.320	3.500	5.100	3.320	5.510
Duplex	mm	2.585	4.000	5.600	3.830	6.035
Duplex	mm	2.850	4.500	6.100	4.340	6.560
Duplex	mm	3.100	5.000	6.600	4.820	7.010

Options and special executions available			
electric servo steering	■	magnet for automatic slow down and stop at the end of the aisle	■
steering wheel position indicator	■	courtesy cabin lights	■
battery side extraction facility	■	adjustable front lamps	■
single battery stand & double battery stand with wheels	■	diagonal lift	■
guide rollers	■	low headroom lift stop sensor	■
capacity 800 Kg load centre 400 mm	■	electronic speed control	■
capacity 1.000 Kg load centre 400 mm	■	electromagnetic parking brake	■
capacity 1.000 Kg load centre 600 mm (L_2 +	■	BDI/hour meter with lifting cut-off at 80% discharge	■
driving system on fork side	■	electronic braking system	■
wire guidance 6,25 kHz +/- 30Hz	■	pin access keypad	■
line driver for max. 1.200 m wire / 6,25 kHz	■	walk-on execution	■

standard ■ option ■

Driving system on fork side (option)
Operator's controls facing the load.

Additional forks lift
The fork lift mast, as standard integrated in the cabin, is operated by buttons facing the load and is driven by a dedicated hydraulic motor. In this way, the load unit can always be positioned at the optimum working height. The use of projecting forks enables pallets or containers to be picked up both longitudinally and transversally directly from the ground.

New Display
The new display is a CAN-BUS device connnected to the truck system providing diagnostic of the whole truck's operating system: itself, traction controller, pump controller, electrical power steering and all other modules connected on the CAN-BUS network. By connecting the service console to the dashboard it is possible to read and modify the setting of all the modules present on the CAN-BUS net.

Multifunction monojoystick
All the controls (traction and hydraulics) are integrated in an ergonomic multifunctions monojoystick.

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