



Lean-on power  
pallet truck

# VIRTUS 20RX ac VIRTUS 20RX-C ac



## Electronic system

The new Virtus 20 RX ac is equipped with three-phase technology control. These controls monitor all the machine's functions and allow many adjustments to optimise the performance of the machine, adapting it to the type of work it has to carry out, ensuring high efficiency, low energy consumption and noiseless operation. All the parameters related to drive and electric braking are electronically adjustable by a programming console in accordance with the customers requirements. Power acceleration with a quick travel direction change. The anti roll-back system is electronically activated while working on gradient ensuring maximum safety for the operator.

## Drive

Reliable sensor less three phase current traction drive motor able to meet the most demanding performance requirements, delivering the necessary power under all load conditions as the traction speed exactly depends on the position of the drive switch.

## Braking system

There are three braking systems in the range:

- braking on reversal of direction of travel with energy recovery by regenerative braking (service braking);
- emergency braking which occurs automatically on release of the dead-man pedal;
- parking brake with releasing of the dead man pedal.

## Chassis

Of folded frame construction to minimise welding-induced stresses, it offers maximum stability and superior mechanical strength under all traction conditions. The standard battery side extraction facilitate its replacement for heavy applications and different working shifts. Particular attention has been given to provide easy access to wearing parts in order to minimise routine maintenance costs.

Characteristics	1.1			Manufacturer		OMG S.r.l.				
	1.2			Model		Virtus 20 RX ac	Virtus 20 RX-C ac			
				Execution						
	1.3			Drive		Electric				
	1.4			Operator type		lean-on				
	1.5			Load capacity / rated load		Q	t	2.0		
				Load capacity mast lift		Q	t	1.5		
				Load capacity initial lift		Q	t	2.0		
				Load capacity initial lift + mast contemporaneously		Q	t	2.0		
	1.6			Load centre distance		c	mm	600		
	1.8			Load distance (centre of load axle to fork face)		x	mm	980		
	1.9			Wheelbase		y	mm	1.610		
								1.800		
Weights	2.1			Service weight incl. battery (see line 6.5)				kg	1.146	1.400
	2.2			Axle loading, laden front/rear				kg	1.905 / 1.012	1.955 / 1.495
	2.3			Axle loading, unladen front/rear				kg	220 / 916	270 / 1.130
Wheels Chassis	3.1			Tires				mm	polyurethane	
	3.2			Tire size, front				mm	250 x 100	
	3.3			Tire size, rear				mm	85 x 70	
	3.4			Additional wheels dimensions				mm	150 x 50 / 2	
	3.5			Wheels, number front / rear (x = driven wheels)				n°	(1x + 2) / 4	
	3.6			Track width, front		b10	mm	437		
	3.7			Track width, rear		b11	mm	380		
Basic dimensions	4.2			Mast lowered height		h1	mm	/		1.200
	4.4			Lift		h3		120		1.400
	4.5			Mast extended height		h4		/		1.900 / 2.020
	4.6			Initial lift		h5		/		120
	4.8			Seat height / stand height				mm	330	
	4.15			Forks lowered height		h13	mm	85		90
	4.19			Overall length		l1	mm	1.995		2.188
	4.20			Length to face of forks		l2	mm	846		1.040
	4.21			Overall width		b1	mm	790		
	4.22			Forks dimensions		s/e/l	mm	60/180/1.150	75/180/1.150	
	4.25			Width over forks		b5	mm	560		
4.32			Ground clearance, centre of wheelbase		m2	mm	25			
4.33			Aisle width for pallets 1000 x 1200 crossways		Ast	mm				
4.34			Aisle width for pallets 800 x 1200 lengthways		Ast	mm	2.250		2.440	
4.35			Turning radius		Wa	mm	1.835		2.025	
Performances	5.1			Travel speed laden / unladen				km/h	12 / 12,5	11,5 / 12
	5.2			Lifting speed laden / unladen				m/s	0.06 / 0.07	0.15 / 0.22
	5.3			Lowering speed laden / unladen				m/s	0.07 / 0.05	0.45 / 0.30
	5.8			Max gradient performance				%	8 / 15	6 / 12
	5.10			Service brake						Electromagnetic
Electric Motor	6.1			Traction motor, rating S2 60 min				kW	2.6	2.6
	6.2			Lift motor, rating S3 15%				kW	2	2
	6.3			Battery according to DIN 43531 / 35 / 36 A, B, C, no						
	6.4			Battery voltage, nominal capacity K5				V/Ah	24 / 465	24 / 465
	6.5			Battery weight				kg	360	360
	6.6			Energy consumption according to VDI cycle				kW/h		
Others	8.1			Type of drive control						ac
	8.4			Sound level at driver's ear according to EN 12 053				dB(A)	< 70	
* 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.r.l. will have the sole right for technical changes and improvements without giving any notice.

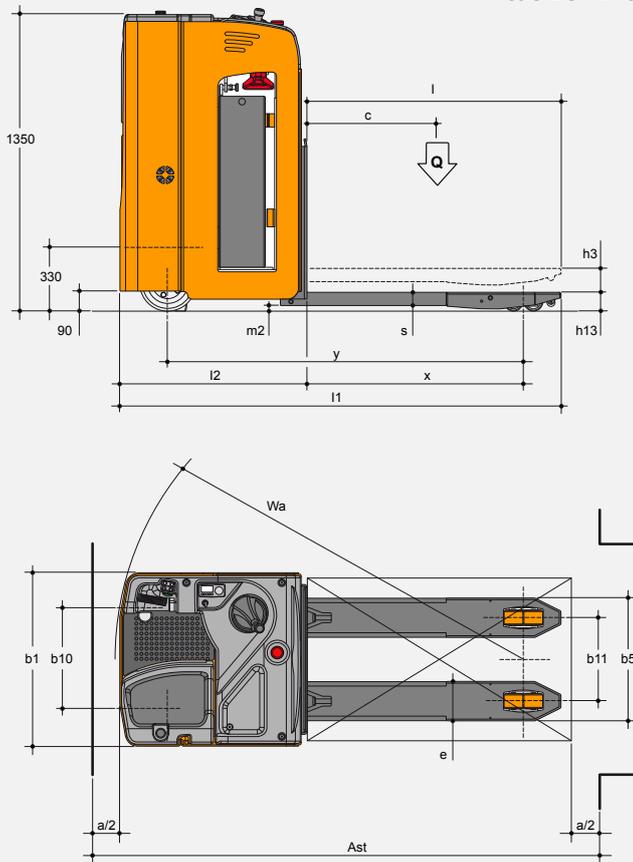
### Accessories and special executions

double load wheel	orange	automatic battery refilling	grey
external forks width 540 mm	orange	pin access keypad	grey
external forks width 680 mm (for Virtus 20 RX ac only)	grey	electronic braking	orange
supertrack traction wheel	grey	anti roll-back system	orange
polyurethane traction wheel	orange	electronic speed control	orange
automatic speed reduction on corner	orange	electromagnetic parking braking	orange
12 km/h traction speed	orange	cold store execution	grey
battery side extraction facility	orange	traction battery 24V 625Ah battery charger 24V 90A	grey
single battery stand	grey	forks length over 1.150 mm (for Virtus 20 RX ac only)	grey
double battery stand with wheels	grey	display with BDI/hourmeter with automatic lifting cut-off at 80% discharge	orange

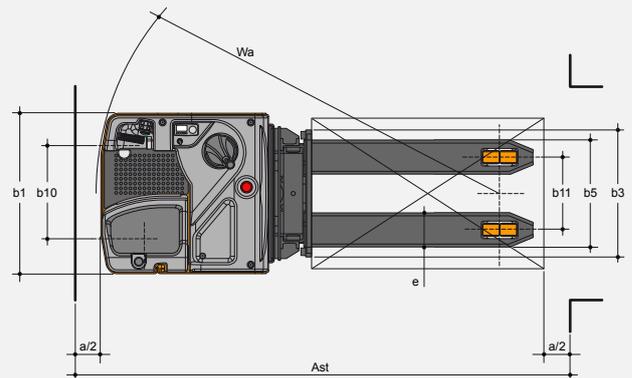
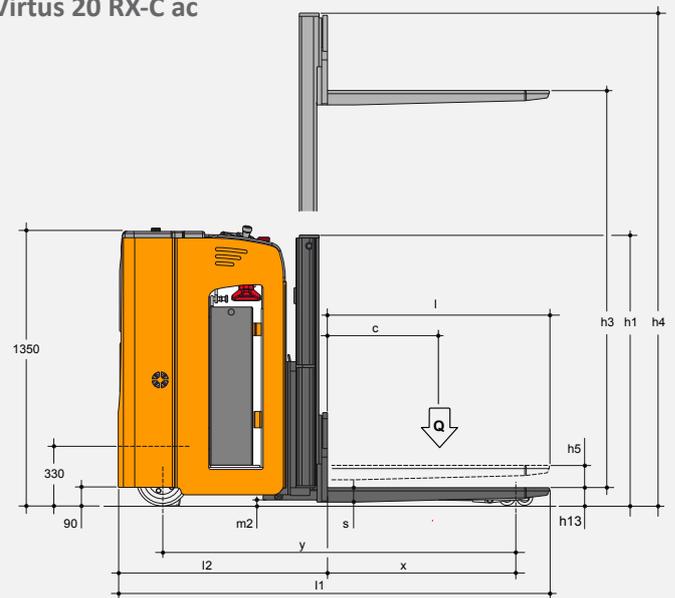
standard

option

### Virtus 20 RX ac



### Virtus 20 RX-C ac





#### Operator's driving position

The central position of the operator, within the chassis ensure a high level of protection and a all-round visibility. The cushioned platform footrest prevents neck problems. All commands are intuitive and easily accessible. The dash board displays all machines parameters including the travel speed, the battery consumption and the working hours. The compact width of the new Virtus 20RX ac (790 mm) represent the ideal size for easy operation of loading and unloading lorries. The electronic steering wheel (with reduced diameter) and the knob controls are inclined in order to reduce the fatigue and offer the maximum operating comfort.



#### Low step-in access

Thanks to the reduced height of the entry step the operator's will not suffer a frequent in and out from the unit.



#### Battery side extraction facility (standard)

The big battery capacity (24V 465Ah and 24V 620Ah as option) ensures an optimal working autonomy. The easy lock system for battery side extraction ensure a quick battery replacement for an application on different working shifts.



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