



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 | 977 | |
| 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.

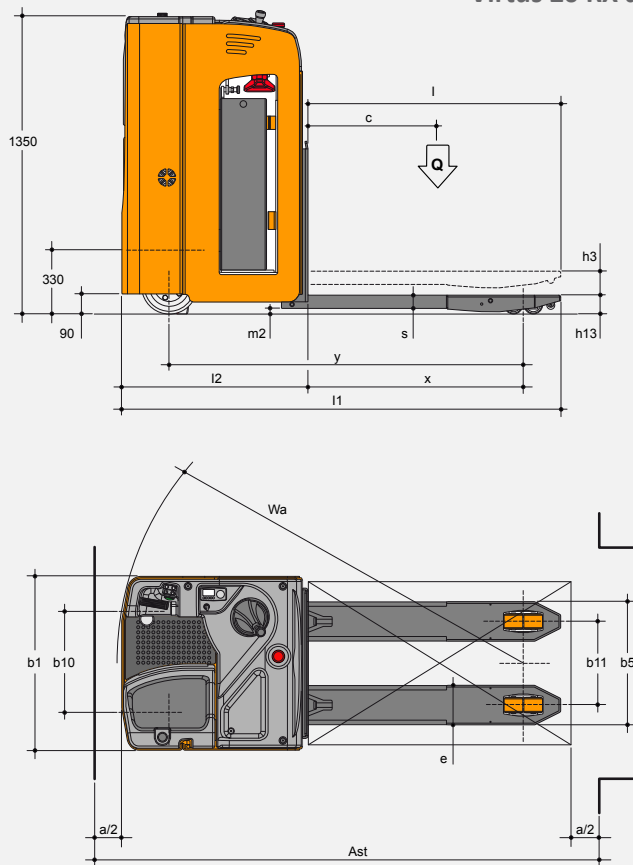
Accessories and special executions

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

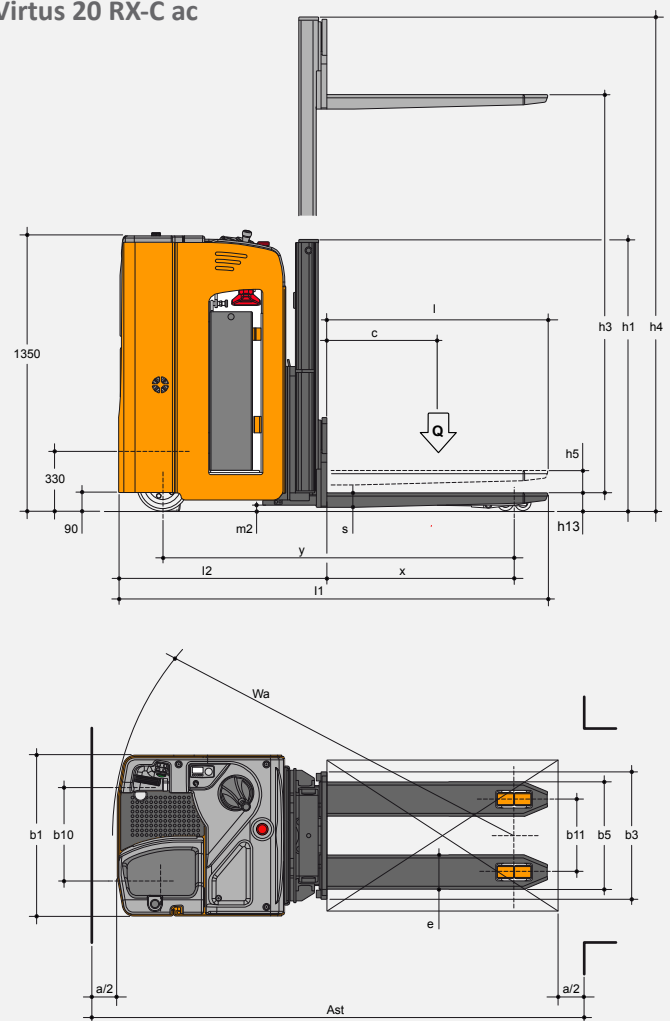
standard

option

Virtus 20 RX ac



Virtus 20 RX-C ac





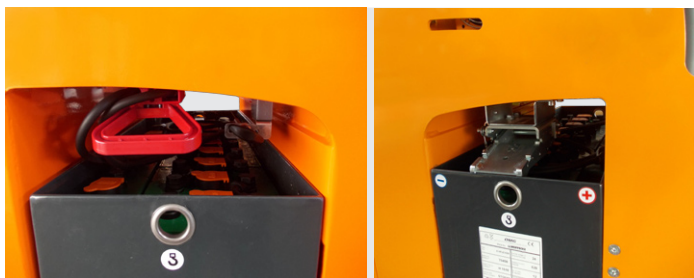
Operator's driving position

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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