



Low lift pallet truck
with initial lift and mast

316 KN-C ac-316 KN-M ac



Electronic system

The entire OMG range of pedestrian low-lift pallet trucks is equipped with high frequency electronic ac devices able to work in high temperature conditions (on the control and/or on the motor) without any unit stops. The controls are equipped with anti roll-back devices which check and control all the units functions and allow many adjustments to optimise the units performances, adapting it to the type of work application it has to carry out. All the parameters related to drive and electric braking are electronically adjustable by a programming console in accordance with the customers requirements. All the models are equipped with hour meter and battery discharge indicator with lifting cut-off at 80% discharge.

Drive

Reliable sensor less three phase current traction drive motors ac 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 throttle.

Braking system

There are three braking systems in the range:

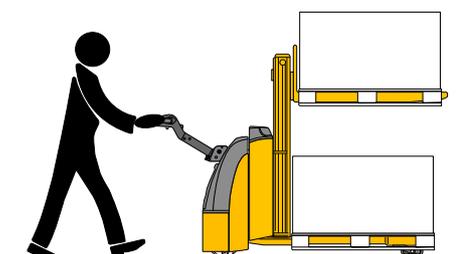
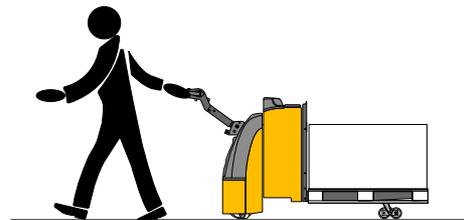
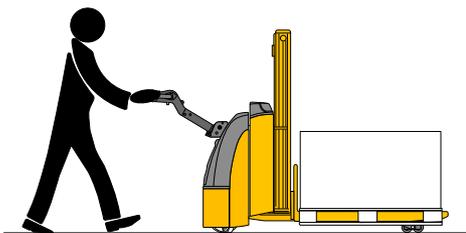
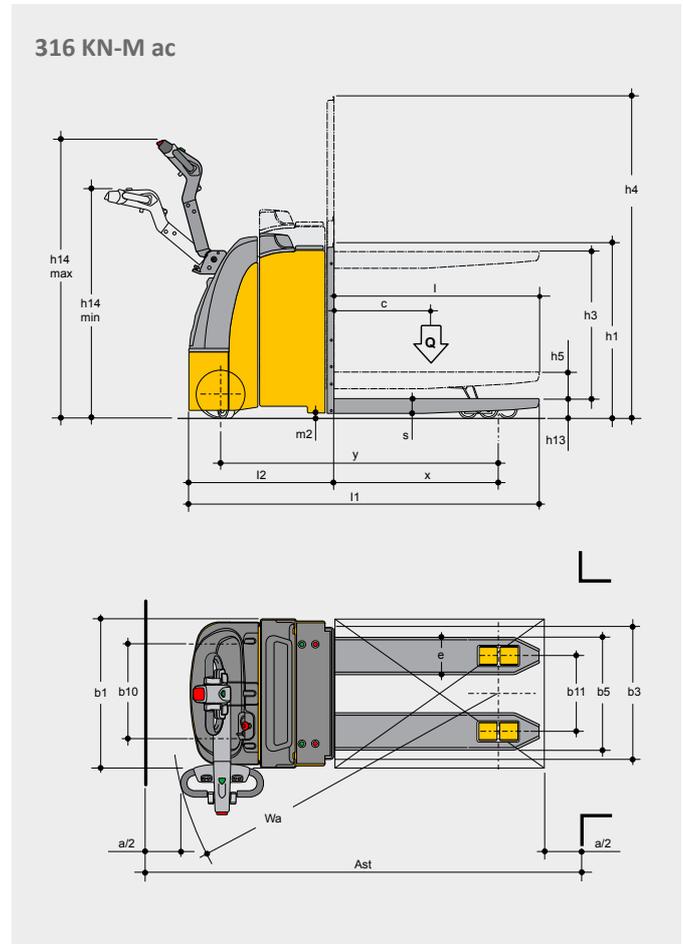
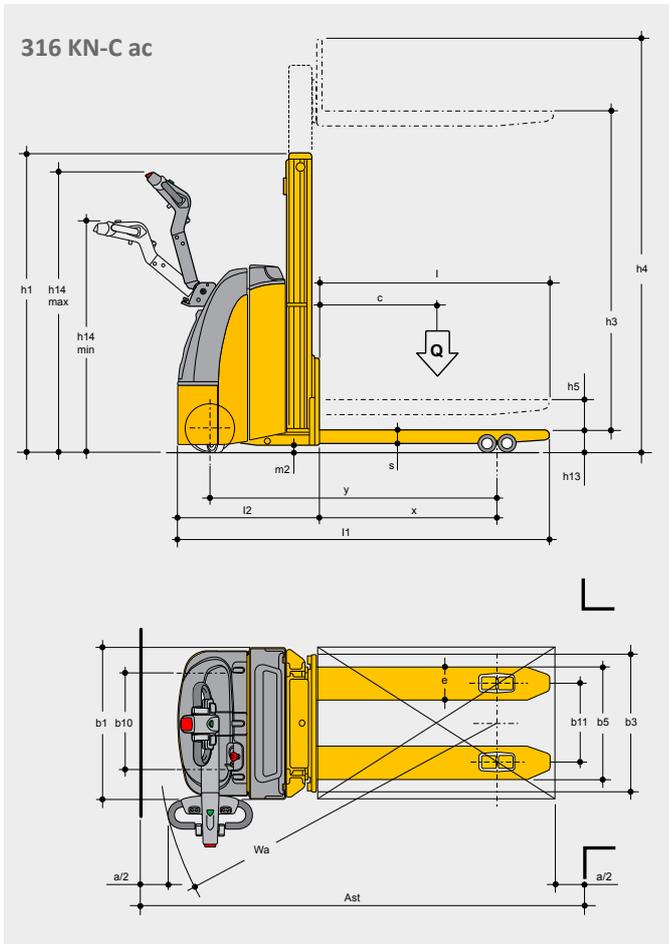
- braking on reversal of direction of travel (service braking);
- emergency braking which occurs automatically on release or extreme lowering of the steering handle;
- parking brake with steering handle in the vertical position.

| Characteristics | 1.1 Manufacturer | | | OMG S.p.A. | |
|------------------|--|--|-------|-------------|-----------------|
| | 1.2 Model | | | 316 KN-C ac | 316 KN-M ac |
| | Execution | | | | |
| | 1.3 Drive | | | Electric | Electric |
| | 1.4 Operator type | | | Pedestrian | Pedestrian |
| | 1.5 Load capacity / rated load | | Q | t | |
| | Load capacity mast lift | | Q | t | 1.0 |
| | Load capacity initial lift | | Q | t | 1.0 |
| | Load capacity initial lift + mast contemporaneously | | Q | t | 1.6 |
| | 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 | 1.499 |
| Weights | 2.1 Service weight incl. battery (see line 6.5) | | | kg | 780 |
| | 2.2 Axle loading, laden front/rear | | | kg | |
| | 2.3 Axle loading, unladen front/rear | | | kg | |
| Wheels Chassis | 3.1 Tires | | | mm | polyurethane |
| | 3.2 Tire size, front | | | mm | 230 x 75 |
| | 3.3 Tire size, rear | | | mm | 85 x 70 |
| | 3.4 Additional wheels dimensions | | | mm | 80 x 45 |
| | 3.5 Wheels, number front / rear (x = driven wheels) | | | n° | (1x +2) / 4 |
| | 3.6 Track width, front | | b10 | mm | 469 |
| | 3.7 Track width, rear | | b11 | mm | 380 |
| Basic dimensions | 4.2 Mast lowered height | | h1 | mm | 1.198 |
| | 4.4 Lift | | h3 | mm | 1.400 |
| | 4.5 Mast extended height | | h4 | mm | 1.900 / 2.010 |
| | 4.6 Initial lift | | h5 | mm | 110 |
| | 4.9 Height of tiller arm in drive position min. / max. | | h14 | mm | 962 / 1.355 |
| | 4.15 Forks lowered height | | h13 | mm | 90 |
| | 4.19 Overall length | | l1 | mm | 1.819 |
| | 4.20 Length to face of forks | | l2 | mm | 669 |
| | 4.21 Overall width | | b1 | mm | 710 |
| | 4.22 Forks dimensions | | s/e/l | mm | 75/180/1.150 |
| | 4.25 Width over forks | | b5 | mm | 560 |
| | 4.32 Ground clearance, centre of wheelbase | | m2 | mm | 15 |
| | 4.33 Aisle width for pallets 1000 x 1200 crossways | | Ast | mm | |
| | 4.34 Aisle width for pallets 800 x 1200 lengthways | | Ast | mm | 2.348 |
| | 4.35 Turning radius | | Wa | mm | 1.692 |
| Performances | 5.1 Travel speed laden / unladen | | | km/h | 5.8 / 6 |
| | 5.2 Lifting speed laden / unladen | | | m/s | 0.10 / 0.15 |
| | 5.3 Lowering speed laden / unladen | | | m/s | 0.30 / 0.20 |
| | 5.8 Max gradient performance | | | % | 5 / 10 |
| | 5.10 Service brake | | | | Electromagnetic |
| Electric Motor | 6.1 Traction motor, rating S2 60 min | | | kW | 1.2 |
| | 6.2 Lift motor, rating S3 15% | | | kW | 2 |
| | 6.3 Battery according to DIN 43531 / 35 / 36 A, B, C, no | | | | no |
| | 6.4 Battery voltage, nominal capacity K5 | | | V/Ah | 24/150 |
| | 6.5 Battery weight | | | kg | 150 |
| | 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.p.A. will have the sole right for technical changes and improvements without giving any notice.

Accessories and special executions

| | | | |
|------------------------------------|----------|---|--------|
| double load wheel | standard | electronic braking | option |
| external forks width 540 mm | standard | anti roll-back system | option |
| supertrack traction wheel | option | electronic speed control | option |
| polyurethane traction wheel | option | electromagnetic parking braking | option |
| push button for vertical operation | option | cold store execution | option |
| pin access keypad | option | built-in battery charger 24V 25A | option |
| automatic battery refilling | option | BDI/hourmeter with automatic lifting cut-off at 80% discharge | option |





In the 316 KN-M ac the push buttons positioned in both sides are easily accessible for the operator who can better level the load acting on the lifting and lowering improving and limiting the pathologies related to the skeleton-muscle apparatus.

Steering handle

This is the result of detailed ergonomic study, combining the requirements of operating comfort with modern industrial design. All the controls on the handle are easy to reach, ensuring productivity and precision and so greater efficiency. When released, the handle returns to the vertical position without bumping or rebound, thanks to a gas spring with integrated braking system.

- handle tiller arm made of ABS with steel core able to absorb heavy impact without deformation;
- lifting and lowering of the forks by push buttons positioned on both sides;
- acoustic warning button in central position;
- active safety system with anti-crush device



The OMG 316 KN-C ac combines the traditional function of the powered pallet truck (1.600 Kg capacity) to the possibility of lifting the load (1.000 kg capacity) up to 1.485 mm height from the ground. It can be used for picking and stacking operations. It is ideal to be used in warehouses with reduced distances and spaces and for the safely loading of overlapped loads.



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