



## IDEA: the new way to drive

### Innovation at the service of versatility

Agreeable style, linea compactness, soft rounded shapes, high technology, attention to detail, maximum safety: all this is **IDEA**. Comfortable, compact, manageable, extremely versatile, and capable of transporting loads of up to 1000 Kg to heights of 5250mm. Only 850 mm wide, and with minimal height size with completely changeable forks outside the truck which make loading and unloading operations possible from the ground, and it moves easily in narrow aisles. Capable of carrying out any activity, even those that previously required specialist vehicles, and is particularly suitable in the case of continuous variations of backward and forward drive. **IDEA** seems to have been designed by the driver.

### Ergonomics and comfort

The driving position has been designed on the basis of the most modern ergonomic and functional principles in order to let the operator maintain the same level of efficiency throughout the work shift. Suitable for people of varying weight, it is characterised by rounded shapes, floor covered in soft anti-slip rubber, enveloping side cushion in athermic material and accessorised with useful storage trays or drinks holder.

Provided with stationary braking system which is activated automatically in the absence of the operator, braking on release of the drive controls allowing a gradual stop in the space of a few metres and cross flow braking in addition to braking with the pedal on the load wheels, **IDEA** makes all manoeuvres precise and safe.

The extremely simple controls, concentrated on the steering wheel and the multi-function lever, are activated respectively by the right and left hand: The operator's position is therefore stable and safe.

The ergonomic shape and the reduced dimensions of the hydraulically servo-assisted steering wheel, ensure maximum driving comfort making all the activation easy and gradual, even at low speed conditions and in reduced work spaces.

The multi-function lever, which houses all the controls for forward-reverse gears, stop, lifting and lowering of the load, forks rotation (optional) can be activated simply and immediately, without having to change the position of the hand. Hour meter, battery level indicator, steering wheel position indicator (optional) make it possible to keep the state of the forklift under control. The footboard, at only 95mm from the ground, can be hydraulically regulated in height. Just press the button positioned under the head of the multi-function lever and turn the steering wheel at the same time so that the operator can find the most comfortable driving position according to his height. The operator finds himself in a position which is diagonal in respect to the driving direction, maintaining a good view both forward and backward; no twisting of the body at each change of direction and therefore no unnecessary exertion. Just a few minutes are all that is needed to get used to the forklift, and the operator will be able to move in total ease and maximum speed.

### Sophisticated technology

The 24 volt MOSFET S.H.F.C. (Static High Frequency Control) technology electronic system, well-housed and protected in the counter-weight, electronically controls both the drive and the lift. Supplied with micro-processor self-diagnostic system and characterised by the absence of a remote control switch, thanks to the "splitfield" type motors, it guarantees: maximum noise reduction; quick response in pair terms; setting in motion speed control with maximum precision and low consumption; reduced maintenance.

The movements of the lift on lifting and lowering are smooth and extremely precise thanks to the use of the proportional valve controlled by the multi-function lever.

A high frequency high performance battery charger can be installed, on request, directly onto the forklift. The equipment is completed on request with the new generation integrated rotating fork-holder plate.

### Versatility

Capable of carrying all types of load which can be positioned onto forks, **IDEA** is particularly suitable for:

- service in any warehouse with or without shelving;
- supplying production lines;
- supplying trilateral overhead plant;
- truck loading and unloading operations.

Optimum views on all sides and upwards thanks to the great visibility lift and to the protective radial overhead guard.

The operator can then at any time check, without any effort, the forklift and the load being transported, and move in total safety and efficiency.

### Maintenance

The electrical and mechanical components, situated in the rear part of the forklift, are completely accessible: Just loosen a few screws and the operations of inspection and maintenance are prompt and quick. It is possible to personalise the forklift's functions by means of the programming console available at the service assistance. Changing the forklift's battery is no problem - with a simple transpallet the operation is accomplished and **IDEA** is ready to go again.

**The technical specifications quoted are given as an indication. OMPIMESPO reserves the right to modify them without warning**

**IDEA**  
Technical data



# IDEA - Technical data

VDI 2198

|                    |  |  |  |                                  |   |                                  |                            |
|--------------------|--|--|--|----------------------------------|---|----------------------------------|----------------------------|
| Specifications     | 1.1  | Manufacturer   |  | OM PIMESPO                       | OM PIMESPO                                    | OM PIMESPO                       |                            |
|                    | 1.2  | Manufacturer's type designation                      |  | IDEA Simplex                     | IDEA Duplex                                   | IDEA Triplex                     |                            |
|                    | 1.3  | Drive: electric, diesel, petrol, gas, mains electric |  |                                  | Electric                                      |                                  |                            |
|                    | 1.4  | Operator type  |  |                                  | standing                                      |                                  |                            |
|                    | 1.5  | Capacity / Load                                      | Q (t)                                  |                                  | 1   |                                  |                            |
|                    | 1.6  | Load centre distance                                 | c (mm)                                 |                                  | 600   |                                  |                            |
|                    | 1.8  | Load distance, centre of drive axle to fork          | x (mm)                                 |                                  | 138 - 196 <sup>(3)</sup>                      |                                  |                            |
|                    | 1.9  | Distance between axles                               | y (mm)                                 |                                  | 966   |                                  |                            |
|                    | Weights  | 2.1  | Service weight (without battery)       | Kg                               | 1595 - 1588 <sup>(1)</sup>                    | 1698 - 1685 <sup>(1)</sup>       | 1822 - 1804 <sup>(1)</sup> |
| 2.2                |  | Axle loading laden front/rear                        | Kg                                     | 2487 - 2480 <sup>(1)</sup> / 493 | 2583 - 2570 <sup>(1)</sup> / 500              | 2706 - 2688 <sup>(1)</sup> / 501 |                            |
| 2.3                |  | Axle loading unladen (front/rear)                    | Kg                                     | 723 - 716 <sup>(1)</sup> / 1257  | 819 - 806 <sup>(1)</sup> / 1264               | 942 - 924 <sup>(1)</sup> / 1265  |                            |
| Wheels and tyres   | 3.1  | Tyres, solid rubber, super-elastic, polyurethane     |  |                                  | polyurethane                                  |                                  |                            |
|                    | 3.2  | Front wheel dimensions                               |  |                                  | 250 x 80                                      |                                  |                            |
|                    | 3.3  | Rear wheel dimensions                                |  |                                  | 254 x 100                                     |                                  |                            |
|                    | 3.5  | Wheels: number front/rear (x=drive wheels)           |  |                                  | 2 / 1x  |                                  |                            |
|                    | 3.6  | Front tread  |  |                                  | 770   |                                  |                            |
|                    | 3.7  | Rear tread   | b11(mm)                                |                                  | /   |                                  |                            |
| Overall dimensions | 4.1  | Lift rotation/fork carriage forwards/backwards       | Degrees                                |                                  | 1,4 / 4 <sup>(2)</sup>                        |                                  |                            |
|                    | 4.2  | Height, mast lowered                                 | h1 (mm)                                | 2123 - 2003 <sup>(1)</sup>       | 2178 - 2058 <sup>(1)</sup>                    | 2230 - 2110 <sup>(1)</sup>       |                            |
|                    | 4.3  | Free lift  | h2 (mm)                                | 1580 - 1460 <sup>(1)</sup>       | 1633 - 1513 <sup>(1)</sup>                    | 1685 - 1565 <sup>(1)</sup>       |                            |
|                    | 4.4  | Lift   | h3 (mm)                                | 1600 - 1480 <sup>(1)</sup>       | 3520 - 3280 <sup>(1)</sup>                    | 5253 - 4893 <sup>(1)</sup>       |                            |
|                    | 4.5  | height mast slipped off                              | h4 (mm)                                | 2143 - 2023 <sup>(1)</sup>       | 4063 - 3823 <sup>(1)</sup>                    | 5796 - 5436 <sup>(1)</sup>       |                            |
|                    | 4.7  | Height of overhead guard (cabin)                     | h6 (mm)                                |                                  | 2120 - 2000 <sup>(1)</sup>                    |                                  |                            |
|                    | 4.8  | Seat height / stand height                           | h7 (mm)                                |                                  | 95 / 195                                      |                                  |                            |
|                    | 4.19   | Overall length                                       | l1 (mm)                                |                                  | 2402 - 2460 <sup>(3)</sup>                    |                                  |                            |
|                    | 4.20   | Length to face of forks                              | l2 (mm)                                |                                  | 1252 - 1310 <sup>(3)</sup>                    |                                  |                            |
|                    | 4.21   | Overall width  | b1 (mm)                                |                                  | 850   |                                  |                            |
|                    | 4.22   | Fork dimensions                                      | sel (mm)                               |                                  | 40 / 80 / 1150                                |                                  |                            |
|                    | 4.23   | Fork carriage DIN 15173, Class/type, A,B             |  |                                  | 2 / A   |                                  |                            |
|                    | 4.24   | Width portable fork carriage                         | b3 (mm)                                | 820                              | 612   | 612                              |                            |
|                    | 4.25   | Distance between fork-arms                           | b5 (mm)                                |                                  | 540 - 525 <sup>(2)</sup> - 584 <sup>(3)</sup> |                                  |                            |
|                    | 4.31   | Ground clearance, laden, below mast                  | m1 (mm)                                | 63                               | 48  | 48                               |                            |
|                    | 4.32   | Ground clearance, centre of wheelbase                | m2 (mm)                                |                                  | 56  |                                  |                            |
|                    | 4.33   | Aisle width for pallets 1000 x 1200 crossways        | Ast3 (mm)                              |                                  | 2600 - 2653 <sup>(3)</sup>                    |                                  |                            |
| 4.34               | Aisle width for pallets 800 x 1200 crossways 800 | Ast3 (mm)  |  | 2711 - 2767 <sup>(3)</sup>       |   |                                  |                            |
| 4.35               | Turning radius                                   | Wa (mm)  |  | 1114                             |   |                                  |                            |
| Performance        | 5.1  | Travel speed (laden/unladen)                         | km/h                                   |                                  | 8 / 9   |                                  |                            |
|                    | 5.2  | Lifting speed (laden/unladen)                        | m/s                                    | 0,17 / 0,27                      | 0,16 / 0,26                                   | 0,16 / 0,25                      |                            |
|                    | 5.3  | Lowering speed (laden/unladen)                       | m/s                                    |                                  | 0,3   |                                  |                            |
|                    | 5.7  | Surmountable tilt KB 30 (laden/unladen)              | %                                      |                                  | /   |                                  |                            |
|                    | 5.8  | Surmountable tilt KB 5 (laden/unladen)               | %                                      |                                  | 8 / 15  |                                  |                            |
|                    | 5.9  | Acceleration time, laden/unladen                     | s                                      |                                  | /   |                                  |                            |
|                    | 5.10   | Service brake  |  |                                  | Hydraulic pedal operated                      |                                  |                            |
|                    | Electric motor                                   | 6.1  | Drive motor, rating KB 60              | Kw                               |   | 3                                |                            |
|                    |  | 6.2  | Lift motor, rating 15% ED              | Kw                               |   | 2,2                              |                            |
|                    |  | 6.3  | Battery acc. DIN 43531/35/36; A, B, C, |                                  |   | DIN 43535-B                      |                            |
| 6.4                |  | Voltage / nominal capacity                           | V / Ah                                 |                                  | 24 / 375 - 435                                |                                  |                            |
| 6.5                |  | Battery weight (+-5%)                                | Kg                                     |                                  | 385   |                                  |                            |
| 6.6                |  | Energy consumption acc. to VDI cycle                 | KWh/h                                  |                                  | /   |                                  |                            |
| Others             | 8.1  | Drive type   |  |                                  | Electronic                                    |                                  |                            |
|                    | 8.2  | Operating pressure for attachments                   | bar                                    |                                  | /   |                                  |                            |
|                    | 8.3  | Oil volume for attachments                           | l/min                                  |                                  | /   |                                  |                            |
|                    | 8.4  | Sound level at the driver's ear                      | dB (A)                                 |                                  | <70   |                                  |                            |

(1) "C" version values

(2) fork rotation optional

(3) value with option of lateral travel forks (with or without rotation)

