



# MONTINI

SPECIAL ELECTRIC FORKLIFT TRUCKS



NEW 120V FORKLIFT TRUCKS WITH LOAD CAPACITIES FROM  
**14000 KG TO 18000 KG** FOR HANDLING **HEAVY LOADS**

**MR 14 - MR 16 - MR 18**

## THE NEW HEAVY DUTY FORKLIFT TRUCKS WITH OUTSTANDING PERFORMANCE, POWER AND ROBUSTNESS

MONTINI expands its range of **heavy duty** counterbalanced electric forklift trucks with three new **120V** models for handling loads **from 14000 kg to 18000 kg** at load centre 600 mm.

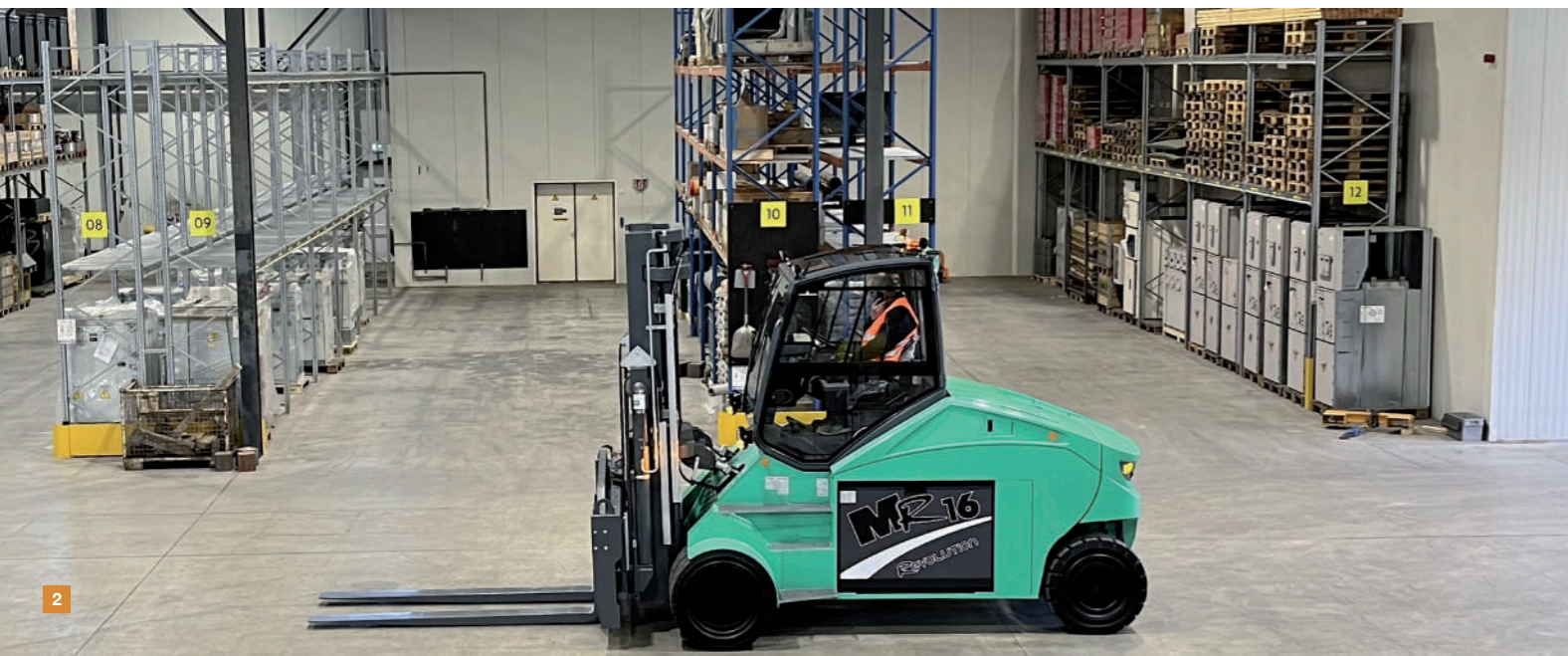
MONTINI's forklifts **MR 14**, **MR 16** and **MR 18** are designed for **heavy duty applications** including steel and wood mills, beverage companies, mechanical and metal fabrication, iron foundries and heavy carpentry.

## POWERFUL, ROBUST, ZERO EMISSIONS FOR HEAVY-DUTY WORK

These **high-performance** electric lift trucks have been designed to achieve **optimum capabilities when handling and storing heavy loads**, both inside the warehouses and out in the yard.

They are the perfect choice for anyone who needs an **ecological, quiet, zero-environmental-impact lift truck** with the same level of performance as an internal combustion vehicle and with no compromises in terms of results.

**MR 14**, **MR 16** and **MR 18** are designed for handling bulky and heavy loads and offer great versatility of use, thus providing real solutions that enable companies to achieve the best in efficiency, performance and sustainability.



## ALTERNATE CURRENT TWIN MOTOR TRACTION WITH PERMANENT MAGNETS (PM) BETTER PERFORMANCE, GREATER AUTONOMY

These new forklift trucks feature key technical solutions as standard supply.

The **twin-motor traction**, with innovative 120V **alternating current electronic system with inverters** and **CAN-Bus communication**, reduces wiring complexity by increasing reliability and ensures:

- extended battery autonomy, thanks to the excellent performance of the high-efficiency permanent magnet electric motors, with reduced weight and size, which provide high efficiency over a wide range of speeds;
- incredible torque and superior performance for acceleration, lifting and travelling;
- high efficiency and low energy consumption;
- excellent functionality and performance of the electronic system;
- no polluting emissions released into the atmosphere, respecting the quality of the environment.



# MASTS

## GREAT STRENGTH AND LOAD CAPACITY

MONTINI's forklifts **MR 14**, **MR 16** and **MR 18** are designed to meet any challenge with absolute efficiency and reliability.

For this reason they can be equipped with a wide range of masts available in the following versions:

- DX (Duplex) with total visibility (TV) and with total free lift (TFL);
- TX (Triplex) with total free lift (TFL)

for optimal load capacities for all types of performance.



**Hydraulic accumulator on the mast fitted as standard** to dampen vibrations when handling heavy and voluminous goods.

**Customized mast solutions** for reliably handling important loads and suited to meet the user's specific production needs.

Mast configurations with **specific additional equipments** for every need.



# HIGH BATTERY AUTONOMY

## FOR LONG WORK SHIFTS

**MR 14**, **MR 16** and **MR 18** are available with **high-performance 120V lead-acid batteries** for long work shifts in the most challenging applications, or with advanced **LFP lithium-ion batteries**.

The battery is supplied in two individual blocks, positioned on the sides of the sturdy forklift chassis, for easy removal and handling.

**Changing the battery** is quick, easy and customizable to the needs of each warehouse, and can be done in the following ways:

- **mechanically** (standard) using a second lift truck or a pallet truck;
- **hydraulically** (optional) with automatic battery extraction controlled directly from the operator's seat.



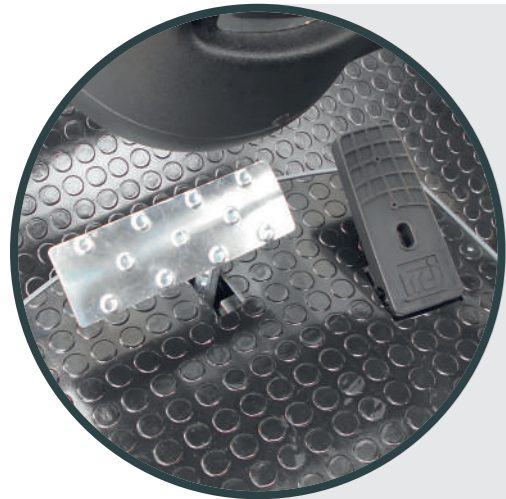
The **battery is charged in direct mode**, using the easily accessible connector protected by a convenient cover flap, as with electric cars.



## PEDAL BOARDS

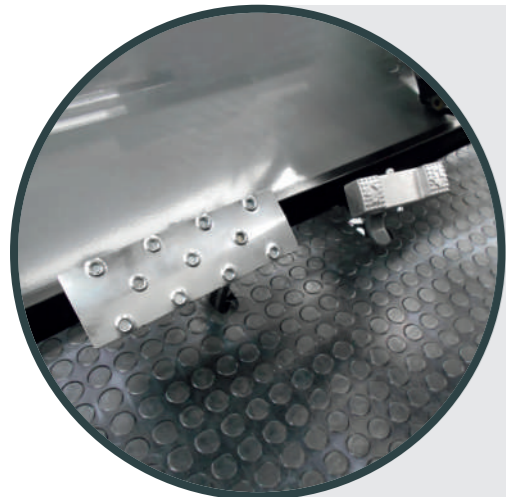
### STANDARD OR OPTIONAL

With a view to customizing the lift trucks to suit the operator's requirements, MONTINI offers different types of **pedal boards**, available as standard or as an optional.



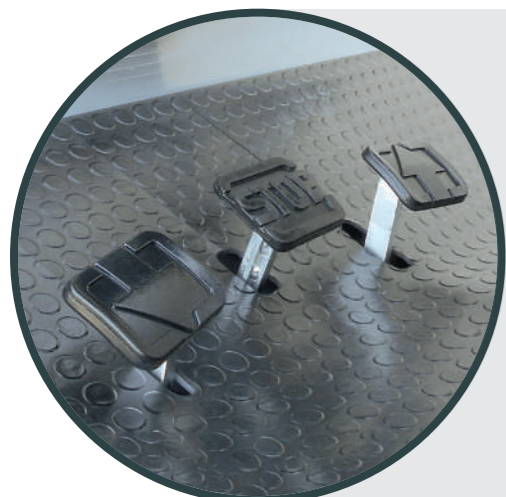
#### STANDARD

Standard, large and spacious pedal board with a single drive pedal (forward/reverse direction buttons on the joystick) and large brake pedal.



#### OPTIONAL

As an optional, a pedal board with a rocker-type forward/reverse pedal and large brake pedal is available.



#### OPTIONAL

For the comfort and efficiency of the operator, a foot control area with two drive pedals (forward and reverse) and a central brake pedal can also be supplied as an optional.

## PRECISION AND PERFORMANCE

### THANKS TO THE HYDRAULIC CONTROLS

**MR 14**, **MR 16** and **MR 18** can be equipped at choice with **different types of hydraulic controls** to ensure maximum efficiency and productivity as well as exceptional driving comfort.

The intuitive and ergonomic hydraulic control with **joystick** allows the operator to activate all the hydraulic functions of the lift truck using a single control lever. Maximum productivity thanks to the use of two simultaneous operating functions of the lifting unit.



The simple to use and easily accessible hydraulic control with **fingertips** (mini-levers) is installed in an ergonomic and adjustable armrest. Simply operate the fingertip controls gently for agile, precise and safe handling.



The hydraulic control with **pilot levers** (mini-joysticks) makes driving the forklift truck easy and reliable. Easily accessible and simple to use, it is installed in an ergonomic and adjustable armrest to guarantee comfortable driving positions.



## DRIVING COMFORT FOR THE BENEFIT OF THE OPERATOR

The potential of the forklifts **MR 14**, **MR 16** and **MR 18** is also expressed in its offering **total comfort** for operators.

In designing these new forklifts, MONTINI paid a great deal of **attention to ergonomics**, focusing on the needs of end users.

The driving position is spacious and easily accessible, thanks to the **convenient and wide steps**. It offers **ample foot space** and an **extremely comfortable seat** and is designed to **ensure excellent visibility**, even when handling the bulkiest of loads.

In order to improve visibility, operator comfort and safety, the **cab** has been **designed with full-glass** as an option, to **ensure an all-round view**, thanks to the large windshield that extends from the front to the rear passing over the roof.

The comfortable driver's cab is positioned on **special anti-vibration mounts (silent blocks)**, designed to reduce noise in the cab and vibrations coming from the ground.



Every technical aspect has been designed to make forklift operation easy in any working situation: from the **unique sloping of the counterweight**, which guarantees perfect visibility when reversing, to the **large grab handle**, for getting into the operator's seat with ease.

**The seat, together with all the main controls, can hydraulically rotate up to 90 degrees**, ensuring maximum comfort and visibility for the operator in all working conditions.

## DESIGNED FOR WORKING IN FULL COMFORT

MONTINI's forklifts **MR 14**, **MR 16** and **MR 18** can be customized with **a wide range of standard and optional accessories and equipment**, to meet the demands of end users.



The **air conditioning unit** (optional) is located in a handy position to the side of the seat. It creates a pleasant climate thanks to the various ventilation outlets.



The **heater** (optional) directly and quickly heats up the cab interior thanks to the hot air vents, thus making sure that the temperature inside the cab is always comfortable.



The large digital colour **display** with multifunction buttons:

- allows accessibility and control of the basic lift truck functions, identified by figures displayed on the icon bar;
- shows the date and time, allows the operator to monitor battery charge status, reports any faults and is equipped with a speedometer and a service hours counter.

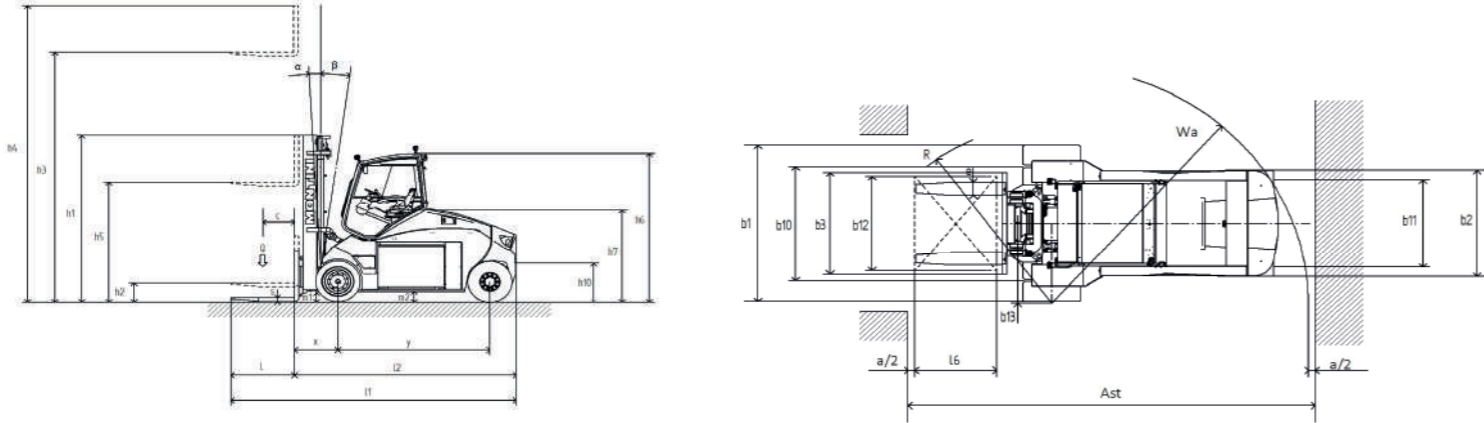


The driver's seat has been optimized for maximum ease with comfortable **seats** to meet the ergonomic needs of the operator.

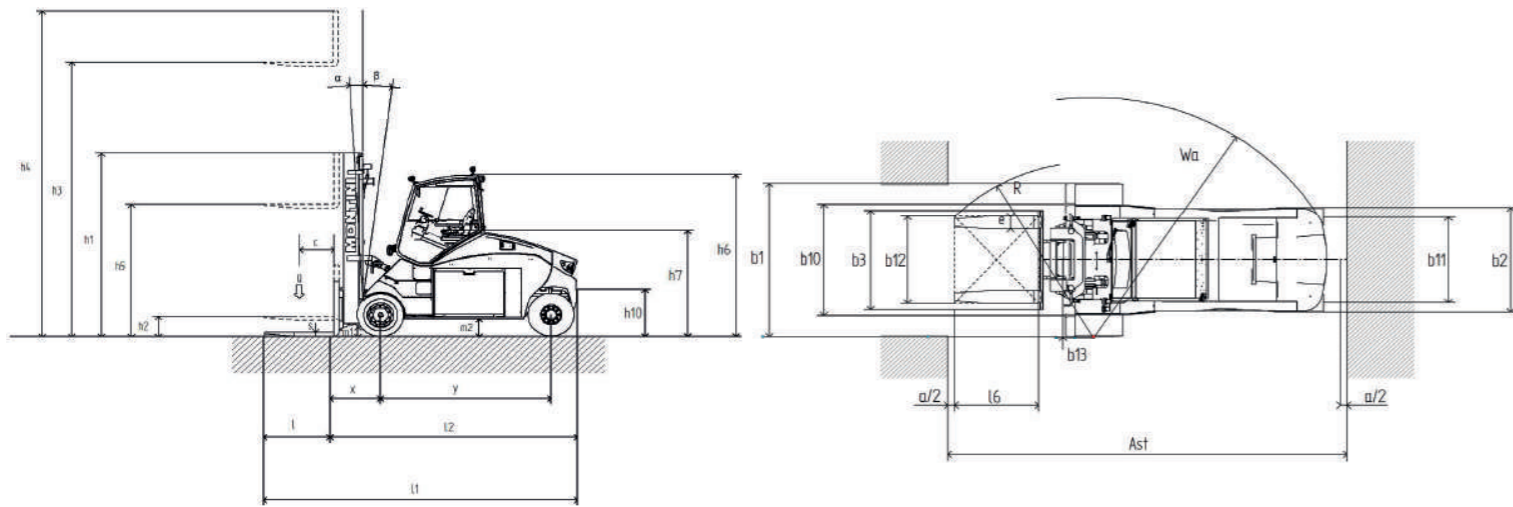


# TECHNICAL FEATURES

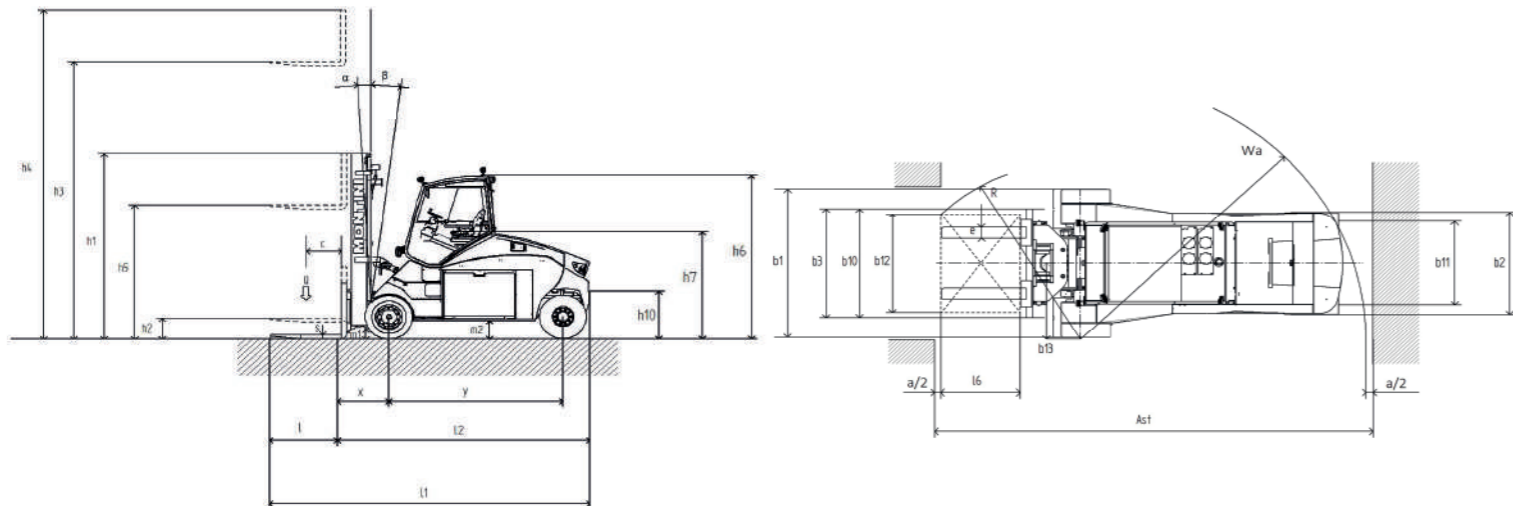
## MR 14



## MR 16



## MR 18



FEATURES	MONTINI			
	MR 14	MR 16	MR 18	
1.1 Manufacturer		MONTINI	MONTINI	MONTINI
1.2 Model		<b>MR 14</b>	<b>MR 16</b>	<b>MR 18</b>
1.3 Power supply: electric, diesel, petrol, LPG, electric mains		electric	electric	electric
1.4 Drive type: hand-guided, pedestrian, stand-on, sit-on, order picker		sit-on	sit-on	sit-on
1.5 Capacity/Load	Q (t)	14	16	18
1.6 Load centre	c (mm)	600	600	600
1.8 Load distance	x (mm)	796 <b>1.</b>	796 <b>1.</b>	880 <b>1.</b>
1.9 Wheelbase	y (mm)	2800	3015	3500
WEIGHTS				
2.1 Weight	Kg	21260	23352	22625
2.2 Axle load, front / rear, laden	Kg	32290 / 2970	35700 / 3652	37320 / 3305
2.3 Axle load, front / rear, unladen	Kg	11310 / 9950	12293 / 11059	11710 / 10915
EQUIPMENT				
3.1 Tyres		SE	SE	SE
3.2 Tyres size, front		355/50-20	355/50-20	355/50-20
3.3 Tyres size, rear		355/65-15	355/65-15	355/65-15
3.5 Wheels, number front/rear (x=driven wheel)		4x/2	4x/2	4x/2
3.6 Track width, front	b10 (mm)	1795	1795	1795
3.7 Track width, rear	b11 (mm)	1365	1365	1365
OVERALL DIMENSIONS				
4.1 Max. tilt of mast/fork carriage, forward / reverse (α-β)	Degrees	5° / 7°	5° / 7°	5° / 7°
4.2 Lowered mast height	h1 (mm)	3275	3275	3070
4.3 Free lift	h2 (mm)	-	-	-
4.4 Lifting height	h3 (mm)	4000	4000	3200
4.5 Extended mast height	h4 (mm)	4800	4800	4825
4.7 Overhead guard height	h6 (mm)	3081	3081	3120
4.8 Seat height	h7 (mm)	1826	1826	1826
4.12 Tow coupling height	h10 (mm)	774	774	774
4.19 Total length	l1 (mm)	5276	5476	6060
4.20 Length to face of forks	l2 (mm)	4076	4276	4860
4.21 Overall width	b1 / b2 (mm)	2453 / 1650	2472 / 1650	2453 / 1650
4.22 Forks dimensions	s / e / l (mm)	80 / 200 / 1200	80 / 200 / 1200	90 / 200 / 1200
4.23 Fork carriage ISO 2330, class/type, A, B		-	-	-
4.24 Min. fork carriage width	b3 (mm)	1800	1800	1800
4.31 Ground clearance, under mast, laden	m1 (mm)	220	220	220
4.32 Ground clearance, centre of wheelbase	m2 (mm)	335	335	335
4.33 Aisle width with pallet 1000x1200 (l6xb12) - pick-up side 1200	Ast (mm)	5994	6099	6598
4.34 Aisle width with pallet 800x1200 (b12xl6) - pick-up side 800	Ast (mm)	6194	6299	6798
4.35 Turning radius	Wa (mm)	3998	4103	4518
4.36 Distance from turning centre and truck centre axis	b13 (mm)	1652	1661	1652
DATA AND PERFORMANCE				
5.1 Travel speed, laden / unladen	Km/h	18 / 20	18 / 20	18 / 20
5.2 Lift speed, laden / unladen	m/s	0,38 / 0,40	0,23 / 0,48	0,32 / 0,35
5.3 Lowering speed, laden / unladen	m/s	0,50 / 0,40	0,40 / 0,30	0,50 / 0,40
5.5 Drawbar pull, laden / unladen (S2 60')	N	30500 / 33200	29900 / 33000	29500 / 33000
5.6 Max. drawbar pull, laden / unladen (S2 5')	N	63600 / 66300	63000 / 66100	62500 / 66100
5.7 Gradeability, laden / unladen (S2 30')	%	11,5 / 20,8	10,5 / 19,8	9,8 / 19,5
5.8 Max. gradeability, laden / unladen (S2 5')	%	18,7 / 33,5	17 / 31,7	15,9 / 31,2
5.9 Acceleration time, laden / unladen	s		6 / 5,1	
5.10 Service brake		hydraulic/electric	hydraulic/electric	hydraulic/electric
ELECTRIC MOTOR				
6.1 Traction motor, output S2 60'	Kw	2x53	2x53	2x53
6.2 Lift motor, output S3 15%	Kw	2x62	2x62	2x62
6.3 Battery according to DIN 43531 / 35 / 36 A, B, C		DIN 43536 A	DIN 43536 A	DIN 43536 A
6.4 Rated voltage / capacity 5h	V / Ah	120 / 1240	120 / 1240	120 / 1240
6.5 Battery weight, min. / max.	Kg	4260 / 4720	4260 / 4720	4260 / 4720
6.6 Energy consumption according to EN 16796	KWh/h	30	29,7	30
MISCELLANEA				
8.1 Type of electronic control		inverter	inverter	inverter
10.1 Working pressure for auxiliary equipment	bar	180	180	180
10.2 Oil flow rate for auxiliary equipment	l/min	-	-	-
10.7 Noise level at operator's ear	db (A)	<70	<70	<70
10.8 Tow coupling model/type		-	-	-

1. Without sideshift

This technical data sheet, compliant with Directive VDI 2198, indicates the values for standard equipment only. Different tyres, masts, equipments etc. may alter these values.



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## Choose specialization.

Choose MONTINI special electric lift trucks.

**MONTINI di Garotti Francesco & C. s.n.c.**

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The Manufacturer therefore reserves the right to make changes as and when deemed appropriate.