



MONTINI

SPECIAL ELECTRIC FORKLIFT TRUCKS



THE NEW 120V **COMPACT** FORKLIFT TRUCK
WITH LOAD CAPACITY OF 18000 KG

MR 18 COMPACT

FOR EVERY NEED A SPECIAL LIFT TRUCK

New on the market is the **MR 18 COMPACT**, the latest **120V** electric counterbalanced lift truck by MONTINI, with a **rated load capacity of 18000 kg** at load centre 600 mm.

This lift truck enhances the special MONTINI product range designed specifically for optimum, agile and efficient handling of heavy and voluminous loads.

POWERFUL, ROBUST, ZERO EMISSIONS FOR HEAVY-DUTY WORK

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

The MR 18 COMPACT is 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.

Developed to **execute the most demanding uses**, such as in the metallurgical and steel industry, in the timber sector, for heavy metal carpentry applications, in foundries or for metal and mechanical construction work, this high-performance MONTINI MR 18 COMPACT lift truck has been designed to take on the most challenging applications. It is a powerful and compact model, thanks to its **great handling capabilities** and its **lifting and traction power**, even when fitted with special equipment.



TYRES AND MONTINI SUPER STEERING FOR A COMPACT, EASY-TO-HANDLE MACHINE

Supplied with Vulkollan polyurethane tyres (single front tyres) the MR 18 COMPACT is compact, manoeuvrable and versatile.

This type of tyre, characterized by a high level of elasticity and minimal permanent deformation, associated with a **wheelbase of just 2800 mm** and a **width of just 2000 mm**, allows the MR 18 COMPACT to lift and handle heavy loads.

As standard, the MR 18 COMPACT comes with **MONTINI SUPER STEERING** (rear-axle steering up to 101°), designed and built by MONTINI, which allows the lift truck to **turn in narrow stacking aisles just 5500 mm wide** and to **work and move in confined spaces**, giving the operator maximum manoeuvrability and the best driving experience without sacrificing productivity.



ALTERNATING CURRENT (AC) TWIN-MOTOR BETTER PERFORMANCE, GREATER AUTONOMY

The twin-motor traction, with innovative electronic technology with 120V alternating current inverters and CanBus communication, guarantees:

- extended battery life, thanks to the excellent performance of the high-efficiency permanent magnet electric motors, with reduced weight and size for a compact design, which provide high performance 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.

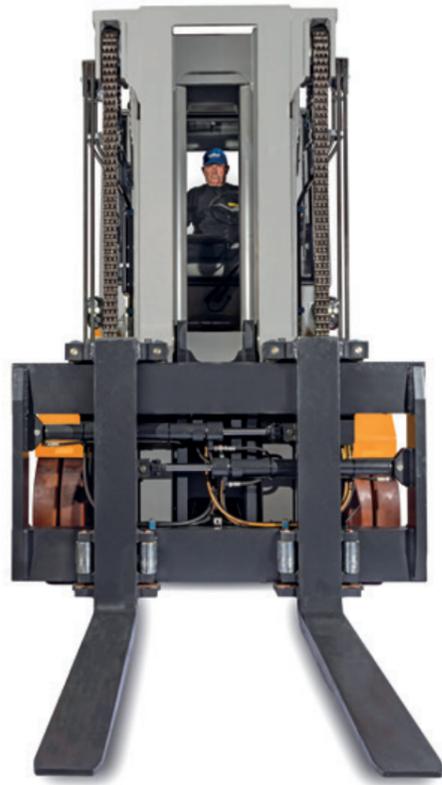
MASTS

GREAT STRENGTH AND LOAD CAPACITY

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.



HIGH BATTERY AUTONOMY

FOR LONG WORK SHIFTS

The MR 18 COMPACT is available with **high-performance 120V lead-acid batteries**, to tackle long work shifts and deal with the most demanding use, ensuring intense work activity, more power, more performance and more acceleration.

The battery is supplied in two individual blocks, positioned on the sides of the sturdy lift truck chassis, making them easy to remove and handle.

Changing the battery is quick, easy and customizable to the needs of each warehouse and can be carried out in various ways:

- **mechanical** (standard), using a second lift truck or a pallet truck;
- **hydraulic** (optional), for automatic battery extraction, which can be controlled directly from the operator's seat.



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 equipment** for every need.



Batteries are recharged in direct mode, by means of the connector located in an easy-to-reach position and kept safe behind a handy hatch, as with electric cars.

PEDAL BOARDS

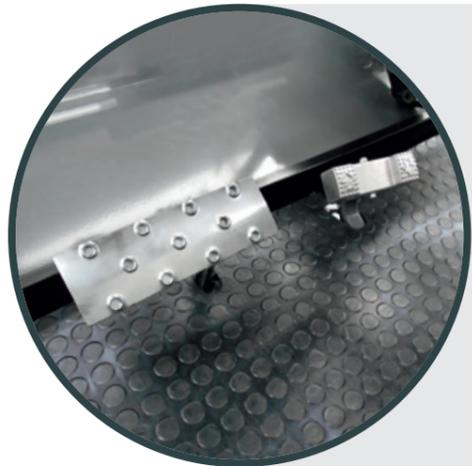
STANDARD OR OPTIONAL

With a view to customizing the lift truck in order to meet operator needs, 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 18 COMPACT can be equipped, as required, with **different hydraulic controls** to ensure maximum efficiency and productivity, not to mention 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

HIGH LEVELS OF OPERATOR COMFORT

The potential of the MR 18 COMPACT is also expressed in its offering **total comfort** for operators.

In designing the new MR 18 COMPACT, MONTINI paid a great deal of **attention to ergonomics**.

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.



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.

ERGONOMICS AND FUNCTIONALITY

FOR HIGH LEVELS OF PERFORMANCE

Ergonomics, functionality and sturdiness are the essential elements that make the new MONTINI MR 18 COMPACT electric forklift truck a valid collaborator for achieving high performance in every use while offering greater safety and better performance.

This brand new and very special MR 18 COMPACT model, with its **high performance** and **compact design**, was developed thanks to MONTINI's investment in innovation and technology.

The seat, together with all the main control devices, can rotate hydraulically up to 90°, guaranteeing maximum operator comfort and visibility in all working conditions while also reducing the risk of occupational disorders.

By rotating the driver's seat by up to 90°, the operator can achieve the **best possible visibility**; this means being able to keep both the load and the operating area under control when using the lift truck in reverse or when there is poor frontal visibility, facilitating lift truck operation and ensuring constant precision.



The large and comfortable cab is positioned on special **vibration damping supports (silent blocks)**, designed to reduce noise in the cab and vibrations from the ground, to benefit from:

- improved comfort, even when working extremely long shifts;
- easier daily work for the operator;
- greater control and constant precision, even in the most demanding working conditions.

DESIGNED FOR WORKING IN FULL COMFORT

The MR 18 COMPACT by MONTINI can be customized with a **wide range of optional accessories and equipment**, to meet the demands of end users.



The **air conditioning unit**, available as an optional extra, 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**, available as an optional extra, 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:

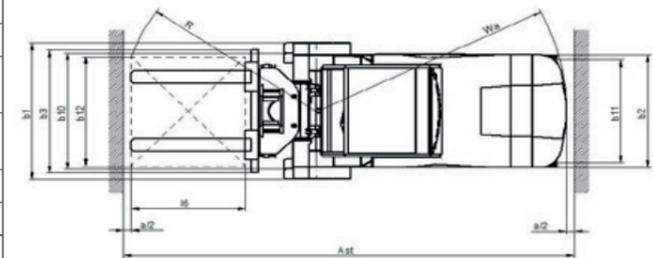
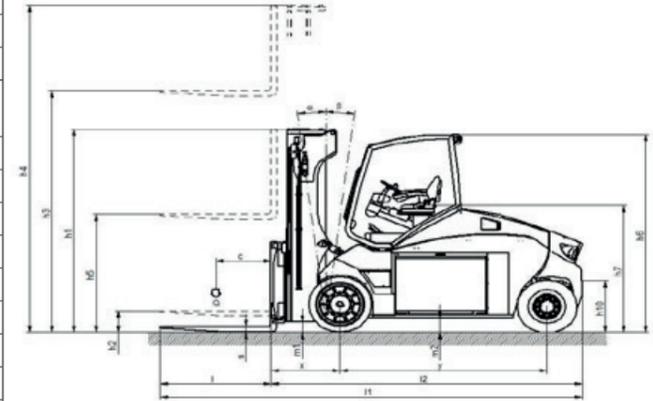
- allows accessibility and control of the basic lift truck functions, identified by figures displayed on the icon bar;
- shows the date and time, allows the operator to monitor battery charge status, reports any faults and is equipped with a speedometer and a service hours counter.



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

TECHNICAL FEATURES

		MR 18 COMPACT	
FEATURES	1.2	Model	
	1.3	Power supply: electric, diesel, petrol, LPG, electric mains	electric
	1.4	Drive type: hand-guided, pedestrian, stand-on, sit-on, order picker	sit-on
	1.5	Capacity/Load	Q (t) 18
	1.6	Load centre	c (mm) 600
WEIGHTS	1.8	Load distance	x (mm) 950 1.
	1.9	Wheelbase	y (mm) 2800
	2.1	Weight	Kg 26110
EQUIPMENT	2.2	Axle load, front/rear, laden	Kg 42140/1970
	2.3	Axle load, front/rear, unladen	Kg 14170/11940
	3.1	Tyres: vultollan (V)	V
	3.2	Tyre size, front	850x640x300
	3.3	Tyre size, rear	711x559x203
	3.5	Wheels, number front/rear (x=driven wheel)	2x/2
	3.6	Track width, front	b10 (mm) 1700
OVERALL DIMENSIONS	3.7	Track width, rear	b11 (mm) 1427
	4.1	Max. tilt of mast/fork carriage, forward/backward (α - β)	Degrees 5°/7°
	4.2	Lowered mast height	h1 (mm) 3100
	4.3	Free lift	h2 (mm) -
	4.4	Lifting height	h3 (mm) 3200
	4.5	Extended mast height	h4 (mm) 4825
	4.7	Overhead guard height	h6 (mm) 2926
	4.8	Seat height	h7 (mm) 1906
	4.12	Tow coupling height	h10 (mm) 788
	4.19	Total length	l1 (mm) 5725
	4.20	Length to face of forks	l2 (mm) 4225
	4.21	Overall width	b1/b2 (mm) 2000/1650
	4.22	Fork dimensions	s/e/l (mm) 80/200/1200
	4.23	Fork carriage (ISO 2330, class/type A, B)	-
	4.24	Min. fork carriage width	b3 (mm) 1800
	4.31	Ground clearance, under mast, laden	m1 (mm) 155
	4.32	Ground clearance, centre of wheelbase	m2 (mm) 224
	4.33	Aisle width with pallet 1000x1200 (l6xb12) (pick-up side 1200)	Ast (mm) 5506 2.
	4.34	Aisle width with pallet 800x1200 (b12xl6) (pick-up side 800)	Ast (mm) 5652 2.
	4.35	Turning radius	Wa (mm) 3275
4.36	Distance from turning centre and truck centre axis	b13 (mm) 0	
DATA AND PERFORMANCE	5.1	Travel speed, laden/unladen	Km/h 18/20
	5.2	Lift speed, laden/unladen	m/s 0,32/0,35
	5.3	Lowering speed, laden/unladen	m/s 0,50/0,40
	5.5	Drawbar pull, laden/unladen	N -
	5.6	Max. drawbar pull, laden/unladen	N 58000
	5.7	Gradeability, laden/unladen	% 7/15
	5.8	Max. gradeability, laden/unladen	% 9/17
	5.9	Acceleration time, laden/unladen	s 6/5
	5.10	Service brake	hydraulic/electric
	ELECTRIC MOTOR	6.1	Traction motor, output S2 60'
6.2		Lift motor, output S3 20%	Kw 2x62
6.3		Battery according to DIN 43531/35/36 A, B, C	DIN 43536 A
6.4		Rated voltage/capacity 5h	V/Ah 120/1240
6.5		Battery weight, min./max.	Kg 4260/4720
6.6		Energy consumption according to VDI cycle	KWh/h 30
MISCELLANEA	8.1	Type of electronic control	inverter
	8.2	Working pressure for auxiliary equipment	bar 180
	8.3	Oil flow rate for auxiliary equipment	l/min -
	8.4	Noise level at operator's ear	db (A) <70
	8.5	Tow coupling model/type	-



1. With integrated fork positioner and sideshift
2. Ast = Wa + R + a (a = 200 mm)

All MONTINI products comply with Machinery Directive 2006/42/EC, Directives 2014/35/EU and 2014/30/EU.



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Choose specialization.

Choose MONTINI special electric lift trucks.

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