

Potain MD

Range



Characteristics

- Max. jib: 62,5 à 80,0 m
- Max. load: 10,0 à 40,0 t
- Tip load: 2,0 à 5,4 t
- Mast: 1,60 à 2,45 m
- Hoist: 33 à 150 LVF

Considered to be the parent range to tower cranes, MD cranes have been around since the beginnings of the Potain brand. This range is the pillar of all Potain product know-how.

Constantly evolving to meet market expectations, these cranes are equipped with the latest technological innovations and boast the best performance possible.



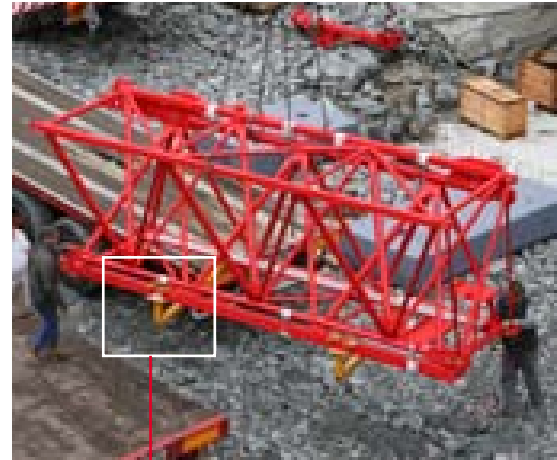


Technical characteristics

- Jib lengths of between 30 m and 80 m, per 5 m section.
- Max. load of 10 to 40 t.
- Hoisting power ranging from between 50 and 150 horsepower.
- The masts used are K400 (1.6 m), K600 (2 m), K800 (2.45 m) and K850 (2.45 m, reinforced).

Transport and assembly

All the components of the MD range are designed to **minimize the total number of trucks** required to transport them between sites.



Accessories required for packaging come as standard.



The jib components can **house the jib ties** to make transport easier and quicker.

Reduced assembly time

Thanks to the factory-performed pre-reeving and the auxiliary winch supplied as standard, assembly of the jib and counter-jib ties can be carried out **quickly and in total safety.**



The counter-jib ties are fitted with tie supports, thus avoiding the use of wooden jacks.



The cabin-mast is spliced on the pivot using 8 pins.



Operation



The mechanisms are always used at full power. When hoisting, the speed is optimized according to the load and command used. In distribution, **progressive variation of speed** and the maximum speed are adapted to the weight of the load.

In orientation, there is controlled **proportional** speed with optimal acceleration and deceleration in accordance with the maximum admissible torque for the mast.

The auxiliary winch can be used on the derrick: this provides users with the possibility of a motorized derrick at the base of the machine.



A moveable pulley can be used without maintenance on the cat head (for passage of the hoisting cable).



DVF Distribution

The **jib-foot** DVF mechanism is easily accessible in total safety.

Progressive speed variation by **proportional control**.

The speed depends directly on the controls manipulated by the crane operator.

To make driving the crane easier, **2 hard spots integrated into the controls** provide better pinpointing of the speed.

LVF Hoisting

With different mechanisms (33 to 150 LVF Optima or 108 to 215 hp LBR), MD cranes are capable of high working speeds through optimizing speed in accordance with the load hoisted, allowing for gains in productivity.

- For the first increments (approach speed, sling tension, etc.) hoisting of the load is controlled by the load security device (a proving ring).
- For working speeds, the Optima system adapts the speed in accordance with the load hoisted. This enables full power of the motor to always be used for optimum productivity.

The LVF Optima provides a gain of around 25% in descending speed.



RVF + orientation

The RVF Optima + orientation enables gentle rotating movements **without jerking**.

Fully integrated progressive control.

Driving adapts to the behavior of the crane operator:

- Traditional driving thanks to action controlled by stoppage of the command. The slow-down phase of the jib is managed by the frequency variator in this case.
- Or by an inverted command in the slow-down phase, called a «counter-orientation» command. As a result, the crane operator can control stoppage.



The cabin is on the same side as the trolley basket.

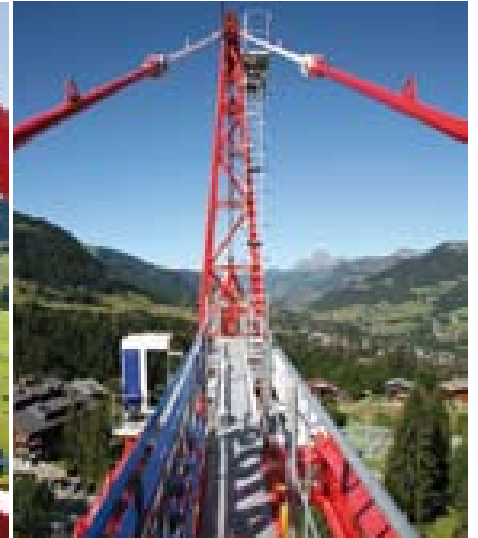
For the technician: there is a maintenance aid with **display** + keyboard incorporated into the frequency variator console (providing auto-diagnostics, display of operating parameters, defects, etc.).



Maintenance and safety

For **easier, safer and quicker** maintenance.

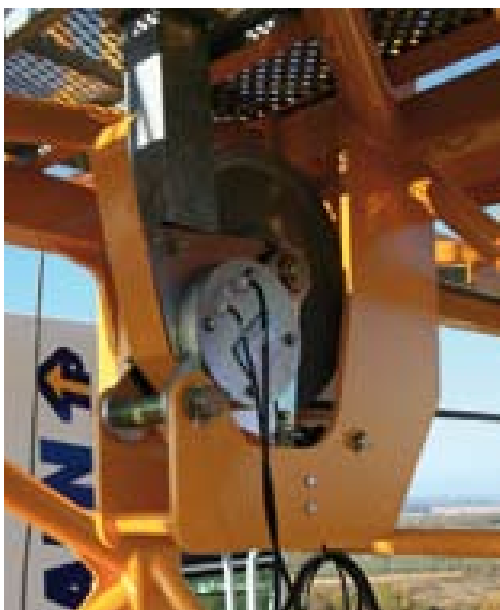
Platforms and walk-ways for access to all mechanisms.



The MDT range boasts devices that enable **usage in total safety**.

All the movements are supervised by **range limiters** with slowing before stoppage.

The maximum load is monitored by a **proving ring** located in the cat head.



Moment bar



Range limiters



Electrification



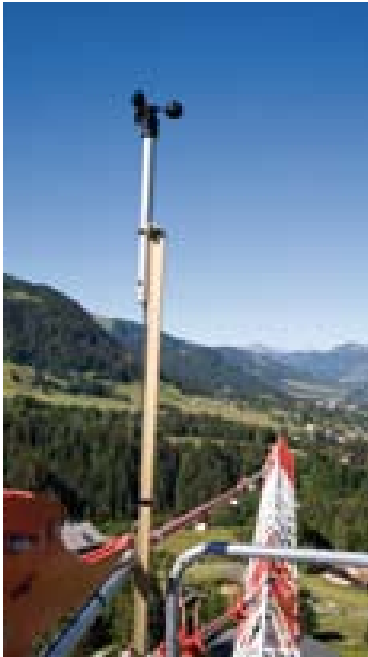
The design of the electric sockets allows **simple and quick connection** on all sites.

Whilst operating or transporting, the cables are integrated and/or stored easily in the crane, increasing the service life of the electrical equipment and providing **optimal conditions of safety**.

- There is a special channel for electric wiring in the counter-jib.



Options



Wind gauge



Vision SX cabin equipment



Motorized greasing



Visu dialog

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