



# TADANO KNUCKLE BOOM CRANE SOLUTIONS

Reaching new heights



# TADANO PM PRODUCT RANGE

The range of Tadano Knuckle Boom Cranes (PM), from 18,230 to 1,086,870 lbs, covers all load handling needs.



## SMALL CRANES

Cranes with lifting capacity up to 22,130 lbs., usually installed onto entry level trucks.

- PM 2.8
- PM 3 P
- PM 3.6
- PM 3.9 P



## LIGHT CRANES

Cranes with lifting capacity up to 106,230 lbs., usually installed onto trucks from 19,500 lbs. GVW.

- |           |            |
|-----------|------------|
| PM 4.5    | PM 10 S    |
| PM 5 P    | PM 11      |
| PM 6      | PM 11 SP   |
| PM 6.5 P  | PM 11.5 P  |
| PM 7 SP   | PM 12      |
| PM 8      | PM 12.5 S  |
| PM 8.5 P  | PM 13 P    |
| PM 8.5 S  | PM 13.5 SP |
| PM 9      | PM 15.5 P  |
| PM 9.5 P  |            |
| PM 9.5 SP |            |



## MEDIUM CRANES

Cranes with lifting capacity up to 248,820 lbs., usually installed onto trucks from 33,000 lbs. to 66,000 lbs. GVW.

- |            |             |
|------------|-------------|
| PM 16.5 S  | PM 24 PX    |
| PM 17 TP   | PM 26.5 S   |
| PM 18 SP   | PM 28.5 SP  |
| PM 18.5 TP | PM 30.5 SP  |
| PM 19      | PM 32.5 SPX |
| PM 20.5 TP | PM 36.5 S   |
| PM 21      | PM 38.5 SP  |
| PM 21.5 S  | PM 40.5 SP  |
| PM 23 P    |             |
| PM 23.5 SP |             |



## HEAVY CRANES

Cranes with lifting capacity up to 528,590 lbs., usually installed onto trucks from 66,000 lbs. to 86,000 lbs. GVW.

- |            |            |
|------------|------------|
| PM 47.5 PX | PM 65 SP   |
| PM 47.5 SP | PM 70.5 SP |
| PM 48.5 SP | PM 83.5 SP |
| PM 57.5 PX |            |
| PM 57.5 SP |            |
| PM 58.5 SP |            |



## SUPER HEAVY CRANES

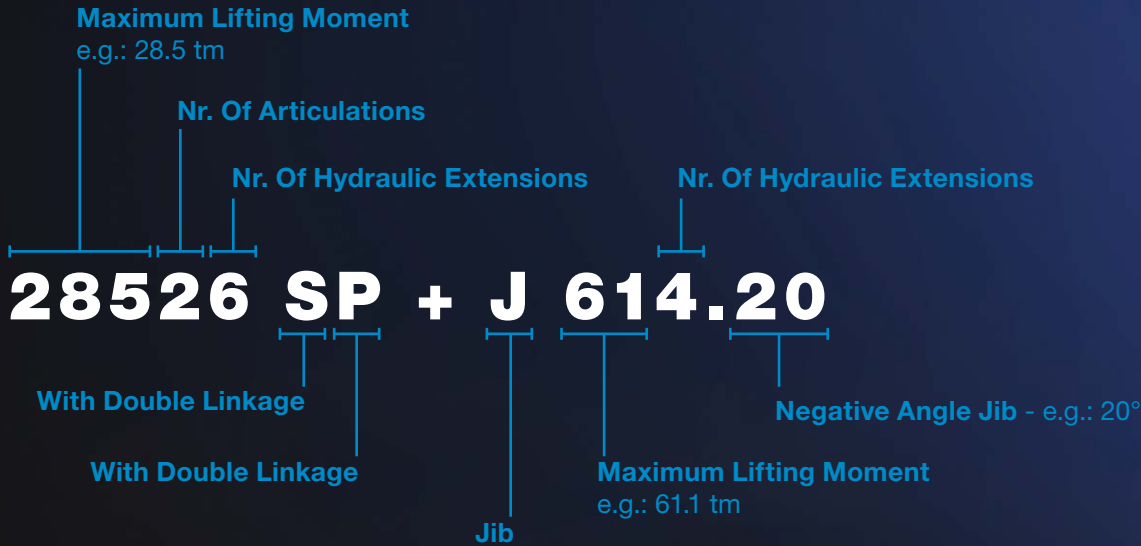
Cranes with lifting capacity up to 1,086,870 lbs., usually installed onto trucks from 76,000 lbs. GVW.

- PM 100 SP
- PM 150 SP
- PM 210 SP



# IDENTIFY YOUR CRANE

PRODUCT NAMING MADE EASIER



## CHOOSE YOUR CRANE

### PRODUCT SERIES

Tadano's crane classification makes it easier to choose the most appropriate model. The six product series rank models depending on standard and optional equipment.

CLASSIC SERIES

CLASSIC PLUS SERIES

SILVER SERIES

GOLD SERIES

PLATINUM SERIES

POWER LIFT

### FEATURES THAT FIT YOUR NEEDS



Maximum lifting



Maximum horizontal hydraulic reach



Maximum vertical hydraulic reach



Slewing system



Standard crane weight



LC crane weight



Slewing by rack



Slewing by ring



Double linkage



Proportional hydraulic control valve block compensated



Multifunction radio remote control



Regenerative kit



Proportional control valve block



LPHV valve



13 ft alarm sensor with control panel in cab



Jib Multipower function



Rotating hydraulic stabilizer



Winch



Hose reel



Hose track



Extension sequence boom



Available top seat or ground control



Remote-controlled outriggers and MCS system



Available LC version







Oil cooler

# PRODUCT SERIES



## CLASSIC






FULLY HYDRAULIC  
STANDARD EQUIPMENT

-  Slewing by rack
-  13 ft alarm sensor with control panel in cab
-  Oil cooler
-  Available LC version



## CLASSIC PLUS







FULLY HYDRAULIC  
PLUS CONTROL & STANDARD EQUIPMENT

-  Slewing by rack
-  Proportional control valve block
-  Multifunction radio remote control
-  Oil cooler
-  Available LC version



## SILVER












REACH EVEN THE HARDEST SPOTS IN  
COMBINATION WITH EASY ELECTRONICS

-  Slewing by rack
-  Double linkage
-  Proportional control valve block
-  13 ft alarm sensor with control panel in cab
-  Oil cooler
-  Available LC version



## GOLD

STATE-OF-THE-ART ELECTRONICS  
EXTREME PRECISION

-  Slewing by rack
-  Double linkage
-  Proportional hydraulic control valve block compensated
-  Multifunction radio remote control
-  Regenerative kit
-  LPHV valve
-  13 ft alarm sensor with control panel in cab
-  Oil cooler
-  Jib Multipower function
-  Available LC version
-  Power Tronic Advance and Stability Power System








# PRODUCT SERIES



## PLATINUM









FIRST-CLASS PERFORMANCE  
FULL PACKAGE WORKING EQUIPMENT

-  Slewing by ring
-  Double linkage
-  Proportional hydraulic control valve block compensated
-  Multifunction radio remote control
-  RIG Regenerative kit
-  LPHV valve
-  13 ft alarm sensor with control panel in cab
-  Oil cooler
-  JIB Multipower function
-  Available LC version
-  Available LC version MCS system for outrigger stabilizer with radio remote control
-  PT Power Tronic Advance and Stability Power System



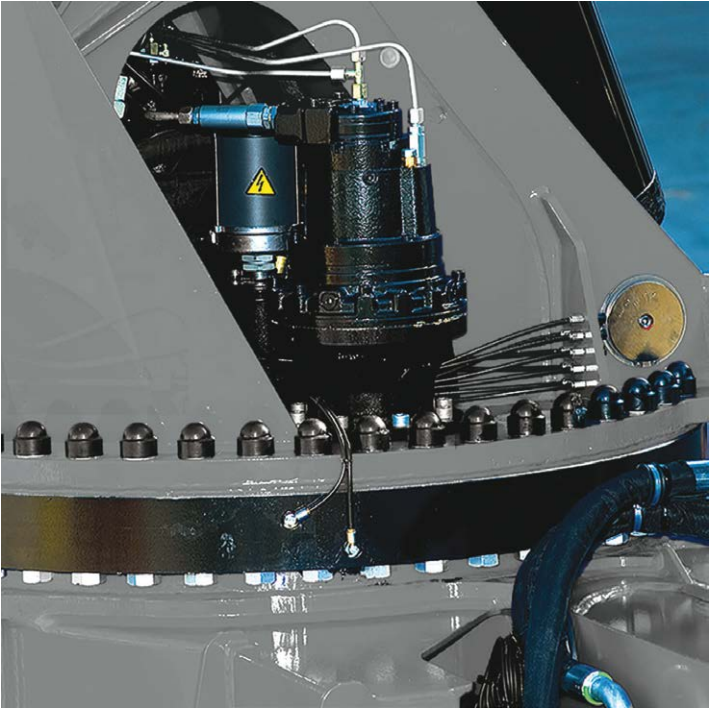
## POWERLIFT

PERFECT FOR HANDLING WALL BOARDS  
OUTSTANDING SPEED AND SAFETY

-  Slewing by rack
-  Double linkage
-  Proportional hydraulic control valve block compensated
-  Multifunction radio remote control with\* or without display
-  LPHV valve
-  Available top seat or ground control
-  Oil cooler
-  PT Power Tronic Advance and Stability Power System

\*Available as standard on Electronic version only

# PRODUCT FEATURES



### SLEWING BY RING

The crane rotation is driven by a slewing ring and a hydraulic slewing motor (gearbox).

#### KEY BENEFITS

- Heavy-duty operation with a high number of cycles
- Reduction of the time needed to cover the working area since the crane will never hit any dead point on the slewing circle
- High precision on the slewing movement and low friction between the rotation gears



### DOUBLE LINK

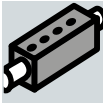
Special connection system between column/main boom and main boom/secondary boom performing angles between 6° to 25° (depending on crane model).

#### KEY BENEFITS

- Lifting curve with constant movement assures high performance of the crane
- Increased operative angle for operating with more simplicity
- Ability to reach the maximum crane capacity with the boom fully extended



# PRODUCT FEATURES

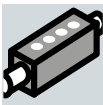
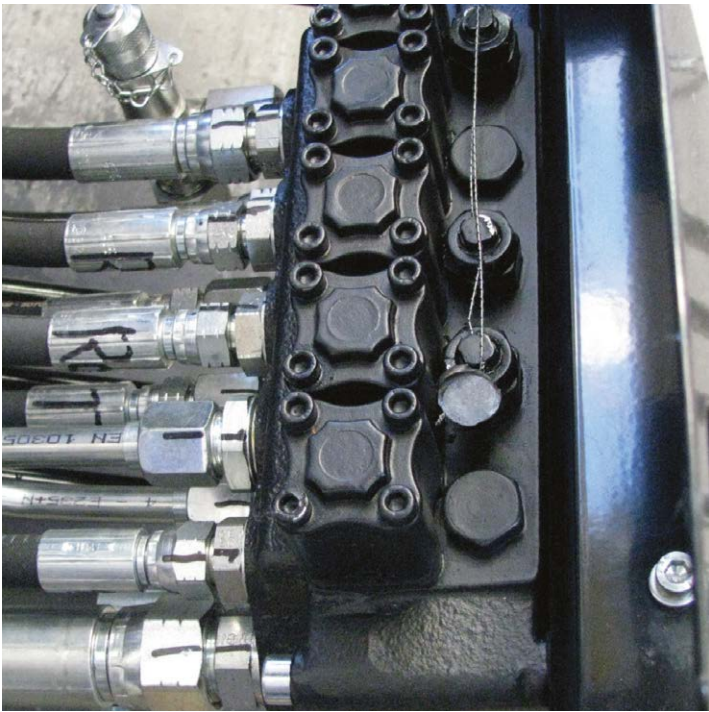


## PROPORTIONAL AND COMPENSATED HYDRAULIC VALVE BLOCK

Crane operation using a proportional compensated Valve Block.

### KEY BENEFITS

- Performs more crane functions at the same time, with movement proportional to the valve bank levers, regardless of the operative pressure of the single maneuver
- Performs simultaneous crane functions even with slow speed, using maximum operative pressure for each movement



## PROPORTIONAL CONTROL VALVE BLOCK

Crane operation using a proportional control Valve Block.

### KEY BENEFITS

- Assures efficient crane operation and precision movement



## MULTI FUNCTIONAL RADIO REMOTE CONTROL WITH LCD DISPLAY

Control of the crane movement and load by a wireless radio remote control with LCD backlit screen; features frequency jumping data transfer.

### KEY BENEFITS

- Increased safety during crane operation
- Keeps everything under visual control on the LCD screen: lifting ratio, pressures, temperatures, work angle and more
- Indication and analysis of overload status either on column cylinder, main boom cylinder, jib or winch
- The backlit display allows full visibility and information even operating the crane at night
- The frequency jumping system allows continuous change of frequencies between transmitter and receiver, limiting potential interruption from electromagnetic interferences and allowing the job to be safely performed



## POWER TRONIC ADVANCE

Crane operative system with information on LCD display.

It's easier to operate the crane, because:

- Lifting condition of the crane is always visible
- Lifting capacity is always visible

### OTHER BENEFITS

- Self-diagnostic of the system in real time
- High sensitivity and precision with single or multiple maneuvers



# PRODUCT FEATURES



## MULTIFUNCTIONAL RADIO REMOTE WITHOUT DISPLAY

Control of the crane movement and load by wireless radio remote control; features frequency jumping data transfer. Also available is the radio palm transmitter, which is a more economical and easy-to-use option. (PM 3 P, PM 3.9 P, PM 5 P only).

### KEY BENEFITS

- Operates the crane from a distance with maximum safety
- The frequency jumping system allows continuous change of frequencies between transmitter and receiver, limiting potential interruption from electromagnetic interferences and allowing the job to be safely performed



## INT

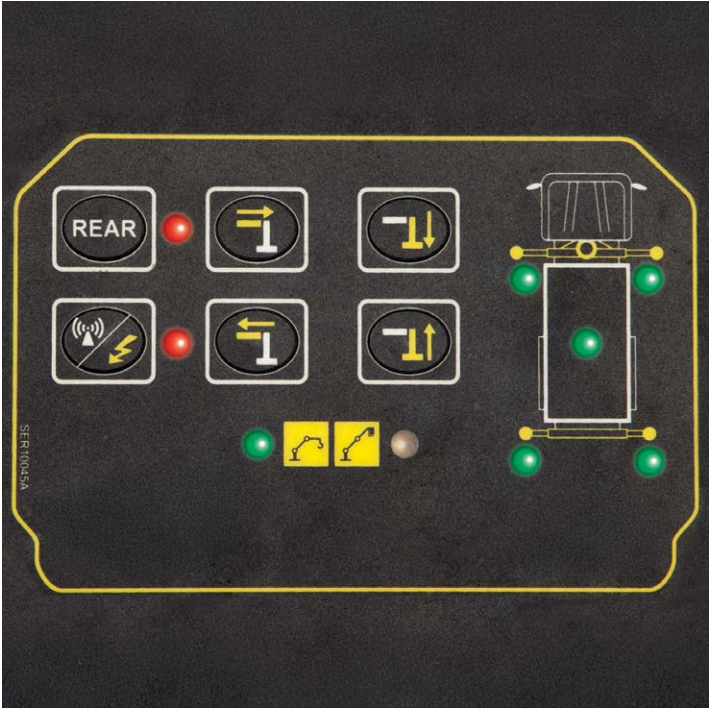
### INTERLOCK SYSTEM

(MANDATORY FOR CRANES THAT COMPLY TO CE STANDARDS)

Stabilizer monitor system designed according to EN 12999 standard. The system automatically sets the maximum lifting capacity of the crane according to the spread of the stabilizers. The stabilizer spread status is also shown on the Power Tronic LCD display and on the Tadano crane system.

### KEY BENEFITS

- This system delivers maximum safety because the crane is utilized at its maximum capacity to the set stability



## MSC

### MCS SYSTEM FOR OUTRIGGER STABILIZERS WITH RADIO REMOTE CONTROL

The system features a control panel for the manual operation of the outrigger stabilizers through soft switch. It is also equipped with indicator lights that confirm the deployment status of the stabilizers on the ground.

### KEY BENEFITS

- Increased operative safety
- Immediate visualization of the stabilization status even operating the crane at night

# PRODUCT FEATURES

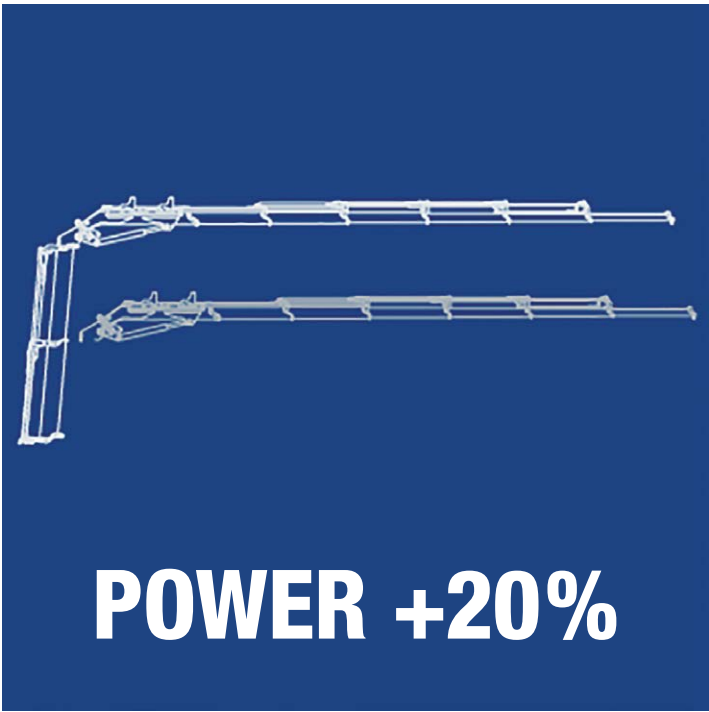


### JIB MULTIPOWER SYSTEM

According to the working configuration, and in particular to the angle between the jib and the secondary booms, this system automatically modifies the maximum pressure setting of the cylinders, making the most of the structural resistance.

**KEY BENEFITS**

- The maximum lifting capacity of the jib can be reached at any working configuration



### JIB MULTIPOWER SYSTEM PLUS

This system adds to the jib multipower two overload settings that work according to the extension of the crane boom.

**KEY BENEFITS**

- The jib lifting capacity is optimized even when crane secondary booms are not fully extended and at any boom angle configuration

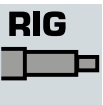
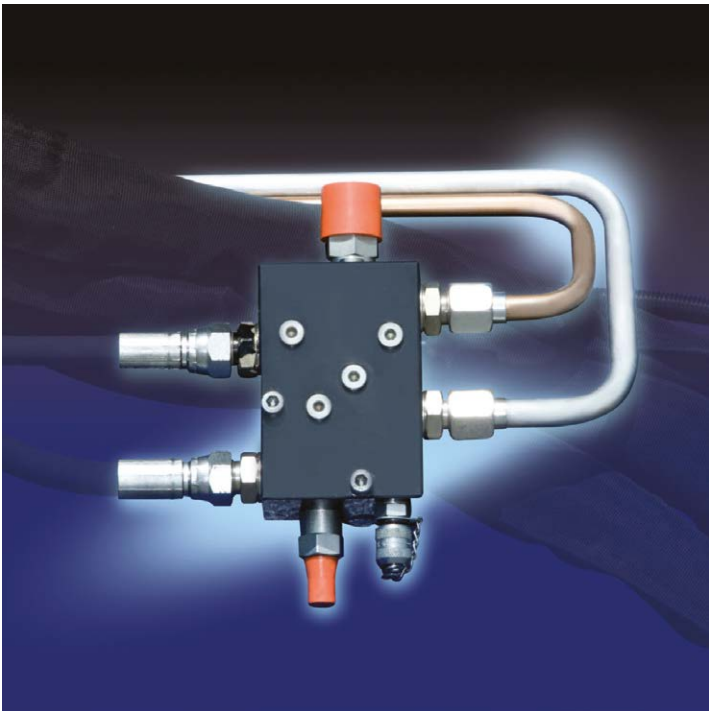


### 4 MAXIMUM TRAVEL ALARM SENSOR WITH CONTROL PANEL IN THE CABIN

Sensor that monitors the maximum travel high of the vehicle with the crane folded in transport position.

**KEY BENEFITS**

- Allows crane to be transported with maximum safety
- A control panel located in the truck cabin uses visual and acoustic alarms to alert the driver if the height of the crane goes above the legal limit (13’6’')



### REGENERATIVE VALVE

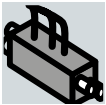
Regenerative hydraulic circuit installed on the extension cylinders. The valve recycles the oil coming out from the rod outlet (that is directed to the oil tank) by sending it back to the cylinder bottom, accelerating the movement.

**KEY BENEFITS**

- Improves working productivity by increasing cylinder speed



# PRODUCT FEATURES



## LPHV VALVE (LOW PRESSURE HOLDING VALVE)\*

Balancing valve on lifting cylinders.

### KEY BENEFITS

- Linear and precise lifting movement, independent from the lifting load with reduced oscillations during work operation

\* A.K.A. LPW and WRBC valve

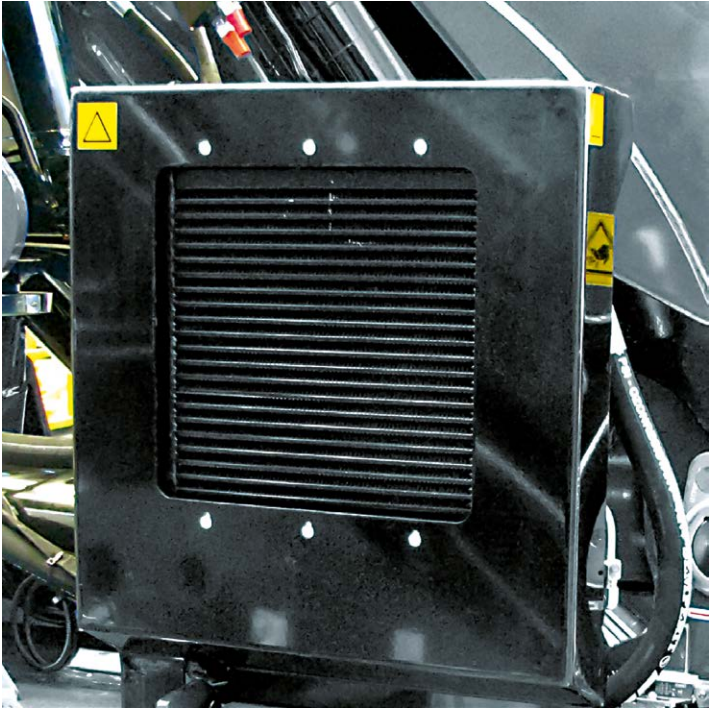


## LC VERSION

Retractable telescopic system installed on the boom pack.

### KEY BENEFITS

- Facilitates handling of bulky loads within a short radius, allowing loads to be loaded under the column for increased efficiency

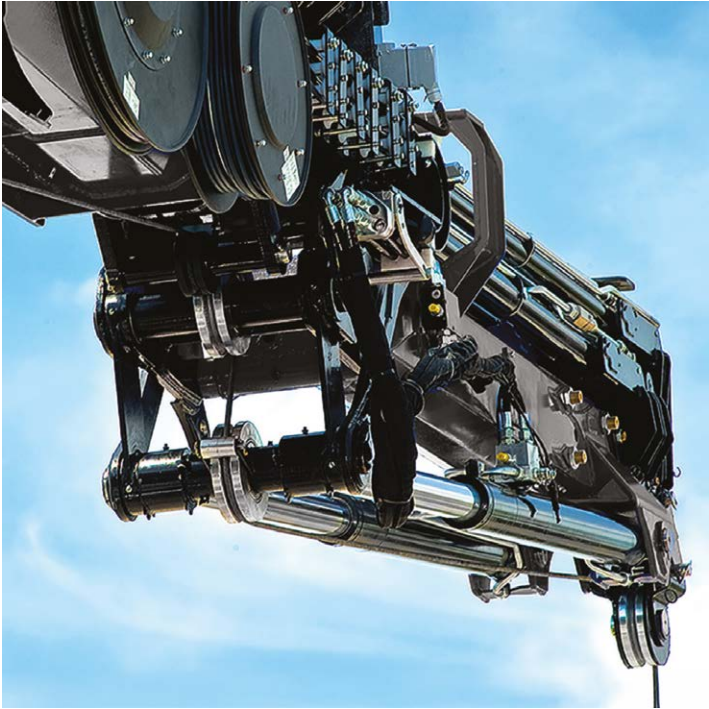


## OIL COOLER

A light and compact oil cooler that reduces the oil temperature during crane operation. It can be installed on the crane, under a protective cover.

### KEY BENEFITS

- Extends the lifecycle of cylinder gasket, hydraulic valves and all other hydraulic components of the crane
- Longer lifecycle for the hydraulic oil
- Enables the crane to operate in hot climates and perform heavy working cycles
- Allow the use of a smaller oil tank, reducing then the crane weight and increasing payload



## WINCH

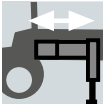
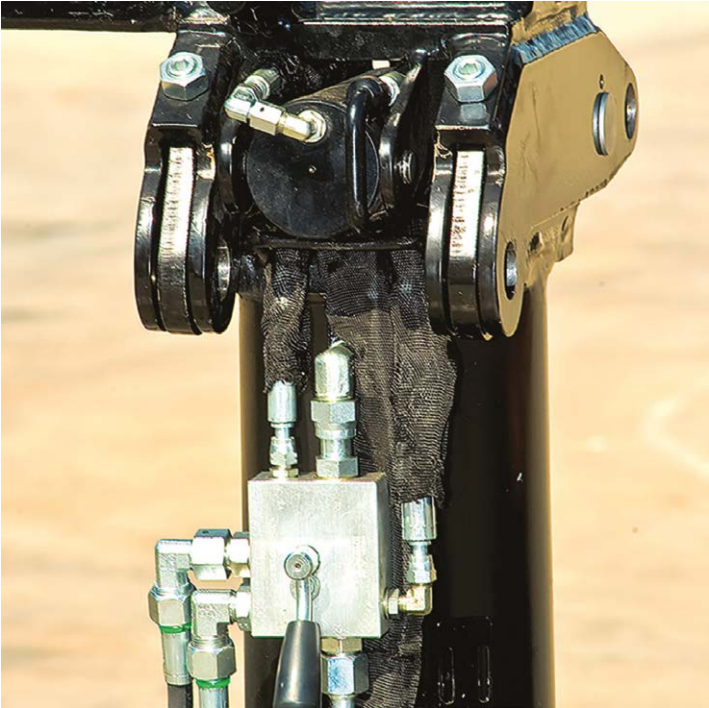
Hydraulic winch to be installed on the basic crane or jib. Available in versions from 1,102 to 11,023 lbs depending on the crane size.

### KEY BENEFITS

- Prevent structural damages with just-in-time control of the lifted load
- Handles the load with maximum precision
- An alarm signal indicates overload condition and the anti-two block engagements (in case of electronic controlled winches)
- Compensate crane oscillations for better stability control
- The new pulley system with rollers centered on the axle of the crane and jib allows the crane to be folded armed with pulleys, for faster folding time (available on some models only)
- More compact, requiring a smaller installation area



# PRODUCT FEATURES

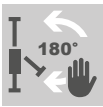


## ROTATING HYDRAULIC STABILIZERS

The cylinder stabilizers can rotate manually or hydraulically from 90° to 180° depending on the crane model.

### KEY BENEFITS

- The crane can be installed directly on the truck axle regardless of other equipment under the frame like hydraulic tanks, tool boxes, etc.
- Easy to maneuver
- Eliminates the potential risk of collision between the stabilizer cylinders and the ground, also in presence of irregular roads



## TILTING STABILIZER PLATE

The stabilizer plate has an inclination of 10°.

### KEY BENEFITS

- The tilting stabilizer plate adapts to the ground inclination for optimal stability
- The wider plate dimensions better distribute the weights on the ground



## SUPPLEMENTARY ACTIVATIONS

Supplementary activation with hose reel or hose track including a hydraulic line on the side of the boom reaching the tip of the crane.

### KEY BENEFITS

- Offers the possibility to use supplementary functions such as Jibs or other hydraulic accessories



## WORKING LAMP WITH LED TECHNOLOGY

High-power working lamp with LED technology.

### KEY BENEFITS

- Allows operators to perform a job at night with high-level illumination at low costs





# PRODUCT FEATURES



## INTEGRAL BASE

Custom-made base that replaces the crane sub-frame. Standard on the PM 150 and PM 210 models.

### KEY BENEFITS

- Reduces the height and the weight of the installation
- Lowers the center of gravity for better installation stability
- Reduces the torsional effect on the sub-frame for a better installation stability
- Reduces installation costs



## STABILIZER WARNING LIGHTS

LED indicator located on the cylinder stabilizers indicating when the crane is operating.

### KEY BENEFITS

- Improved visibility of the position of the stabilizer cylinders and better safety for the operators and anybody in the working area

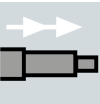


## JIB

Jib with double articulation cylinder, available on different configurations according to the required crane size.

### KEY BENEFITS

- Increases the crane reach
- Addresses more applications
- Provides more operational flexibility on the house roof and in situations with difficult access thanks to the negative angle (up to 25° depending on crane model)



## SEQUENTIAL BOOM EXTENSION

Control system for the sequential boom extensions.

### KEY BENEFITS

- Ideal distribution of the static solicitation on the extensions and optimized weight distribution on the structure
- System integrated on the extension cylinders, with space reduction



# PRODUCT FEATURES



### TOP SEAT

Top seat control station to maneuver the crane.

#### KEY BENEFITS

- Better visibility of loading operations

### ANTI-CORROSION PROTECTION SYSTEMS

Special structural treatment on Zinc base and paint coating on the crane area with high exposure to salt fog.

#### KEY BENEFITS

- Improves corrosion resistance

## COMPLETE RANGE OF ACCESSORIES

### FOR EVEN MORE APPLICATIONS



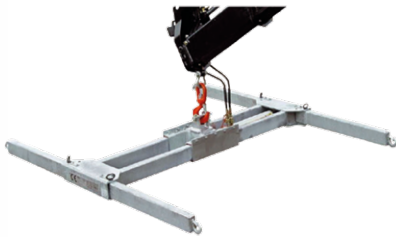
Operator basket and self-levelling platforms



Pallet forks



Swivel hooks



Cross beams for car lifting



Clamshell buckets



Log grabs



Brick grabs



Augers



Supplementary outrigger



Hydraulic rotors

## CERTIFICATIONS & WARRANTY



In accordance with EU safety standards



In accordance with H1-B3 standard



3-years warranty on the structural parts



Quality certification UNI EN ISO 9001:2008



Certified Painting System



Hydraulic grapples



Variable hydraulic pumps



Fixed hydraulic pumps



PTO



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Reaching new heights

