



KNUCKLE BOOM CRANES

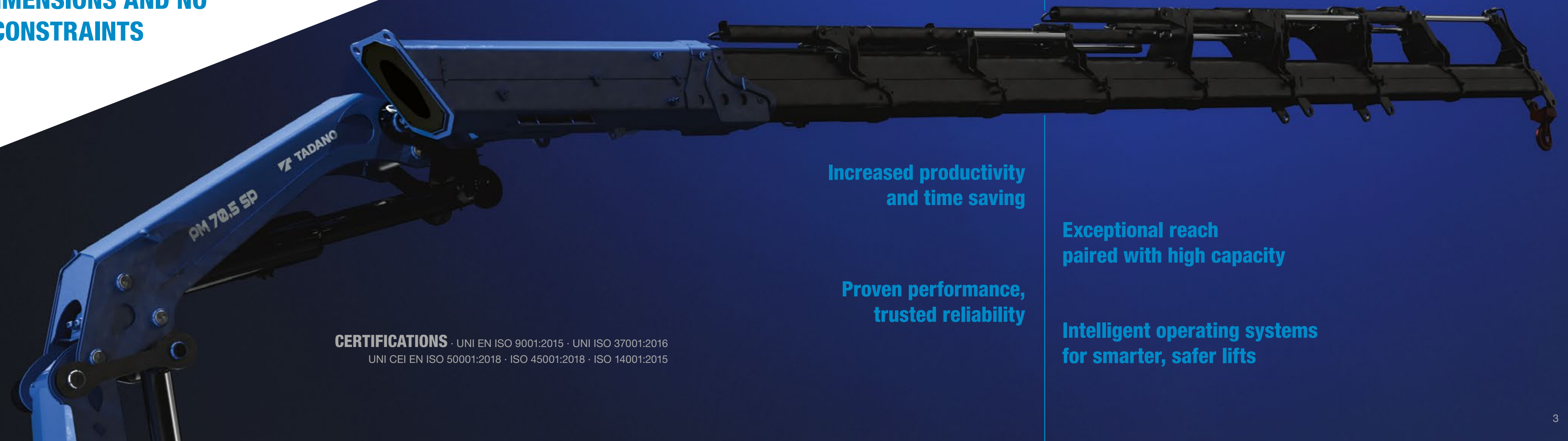
# FEATURES

(PM SERIES)

Reaching new heights

# FEATURES

HIGH PERFORMANCE,  
COMPACT DIMENSIONS AND NO  
ASSEMBLY CONSTRAINTS



Exceptional versatility  
and maximum agility

Engineered for optimal  
operating efficiency

Increased productivity  
and time saving

Exceptional reach  
paired with high capacity

Proven performance,  
trusted reliability

Intelligent operating systems  
for smarter, safer lifts

**CERTIFICATIONS** · UNI EN ISO 9001:2015 · UNI ISO 37001:2016  
UNI CEI EN ISO 50001:2018 · ISO 45001:2018 · ISO 14001:2015





San Cesario sul Panaro (Modena) - Italy

## TADANO KNUCKLE BOOM CRANES

# WHEN TRADITION TURNS INTO INNOVATION



## BORN IN ITALY, BUILT FOR THE WORLD

### A Legacy of Lifting Excellence

Founded in 1959 in Modena, Italy, PM has been a trusted name in truck-mounted and loader cranes for over 65 years. From the beginning, PM combined Italian engineering with practical innovation to deliver safe, efficient lifting solutions for industries around the world.

### A NEW CHAPTER WITH TADANO

In January 2025, PM became a wholly owned brand of Tadano Ltd., a global leader in mobile crane manufacturing. This strategic move combines PM's legacy and expertise with Tadano's global reach, service network, and engineering excellence.

With headquarters in San Cesario S/P (MO), we are present throughout Europe and Worldwide with subsidiaries and sales and service representatives.

The Knuckle Boom product range currently includes more than 70 series, with over 500 possible configurations. From design to construction of frameworks, from quality control on materials to final testing, everything is carried out at our two plants in San Cesario S/P (MO) and in Arad (Romania).





# FEATURES



## ROTATION

Available with either a rack-and-pinion system for high reliability and low maintenance, or a continuous rotation group with gearmotors for precise control and soft stopping.



## DOUBLE LINK

The exclusive PM Link System ensures exceptionally consistent lifting curves, delivering smooth, powerful performance in every operating position for maximum efficiency and control.



## NEGATIVE ANGLE

The outer boom can reach a negative angle of 15°, and the jib up to 25°, minimizing flexion in the hydraulic extensions. This ensures precise load control and smooth, stable operation even in challenging lifting scenarios.



## COMPENSATED PROPORTIONAL VALVE BLOCK

Ensures smooth and precise operation even when multiple movements are activated simultaneously, providing improved fluid control, and efficiency during complex lifts.



## LPV VALVE (LOW PRESSURE VALVE)

Special balancing valves on the lifting cylinders deliver linear, precise movement that remains consistent regardless of the load, ensuring smooth and accurate operation.



## OIL COOLER

Equipped with Oil coolers with inverter technology as standard to optimise operational control, extending the life of hydraulic components and improved efficiencies all while reducing energy consumption.



# TADANO KNUCKLE BOOM CRANE FEATURES



## ELECTRONIC CONTROL POWER TRONIC

Moment limiter and electronic control system with 16-bit computing power and CoDeSys V3 operating system for immediate information management.



## CONSTANT DIALOGUE WITH THE OPERATOR

Ensures smooth, coordinated operation even when multiple movements are activated simultaneously, giving the operator precise fluid control.



## SMART PLUS

Automatically optimizes crane operating speed based on the actual lifting power required, delivering precise, efficient performance with an intelligent, automatic power boost when needed.



## GRAPHIC DISPLAY ON REMOTE CONTROL

Larger, more visible and with more information. Backlit for use during night operations. Also available in a color version.



## RADIO REMOTE CONTROL POWER TRONIC

The frequency-jumping transmission system constantly shifts frequencies to minimize interference, ensuring reliable, uninterrupted remote control and precise crane operation.

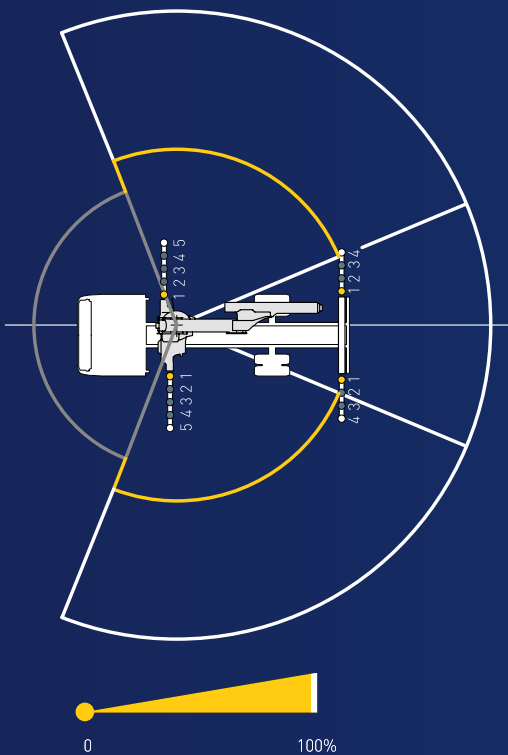


## RADIO REMOTE STABILIZER CONTROL

Delivers maximum safety and flexibility by allowing full control of all stabiliser from a safe distance, providing excellent visibility and precise positioning, simplifying set up to ensure secure, safe operation.

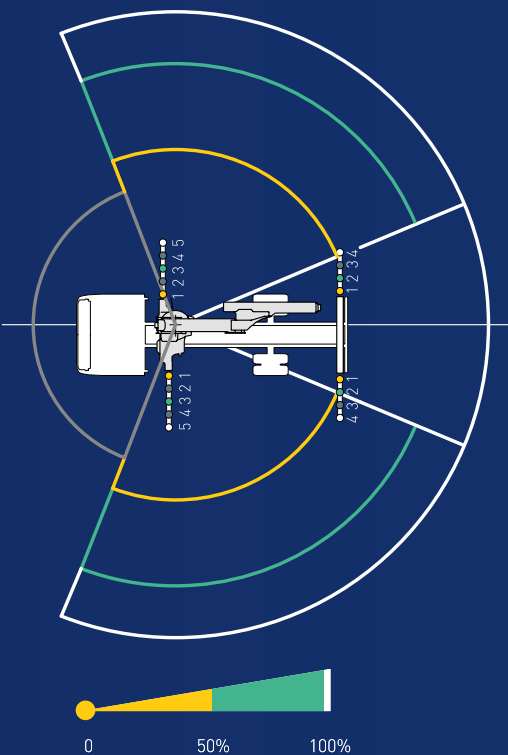
## INTERLOCK – PM STABILITY POWER SYSTEM

It guarantees the truck's stability at all times and determines crane lifting capacity and the ideal width of the stabiliser.



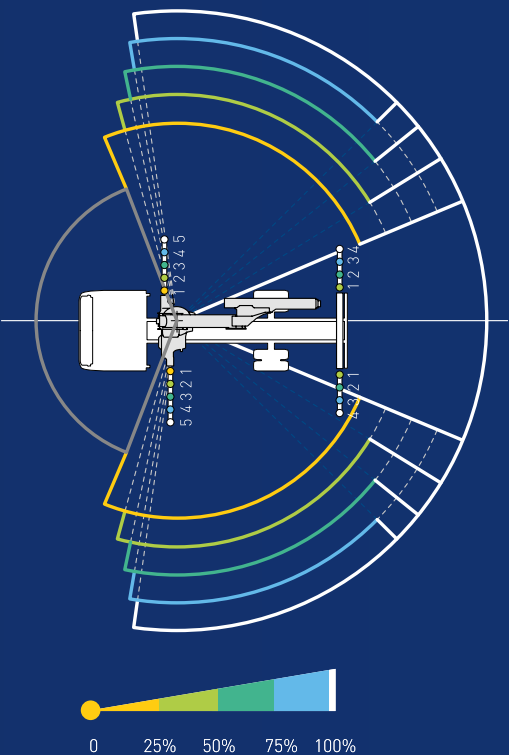
## INTERLOCK 3

Working area with outriggers fully extended or fully retracted, with the possibility to stabilize on one side only. On rack-and-pinion cranes.



## INTERLOCK 4

Offers maximum flexibility with a working area that can be fully open, 50% open, or completely closed, and the option to stabilize on one side only. The PLUS version adds planarity control for enhanced safety. Designed exclusively for cranes with rack-and-pinion systems, it ensures precise, adaptable, and secure setup in any situation.



## INTERLOCK 5

Provides a versatile working area that can be fully open, partially open in 25% increments, or completely closed, with the option to stabilize on one side only. The PLUS version adds planarity control for enhanced safety and precise setup, ensuring secure and adaptable operation in any situation.



# TADANO KNUCKLE BOOM CRANE FEATURES



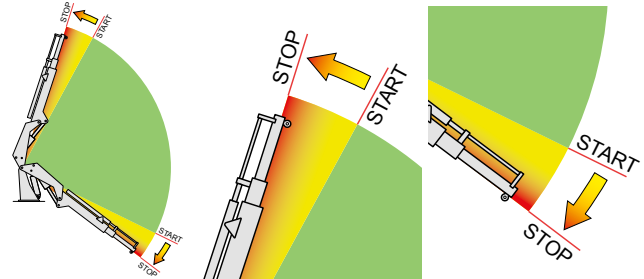
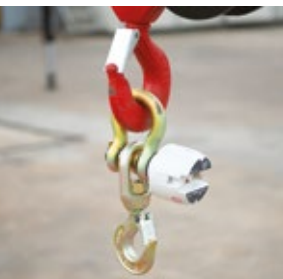
## COUNTER-WEIGHT

The crane can be equipped with an optional counterweight sensor to enhance vehicle stability for safer, more confident lifting. The system is electronically monitored to ensure secure and reliable operation at all times.



## LOAD WEIGHING

Thanks to this accessory, the operator can weigh the load directly from the crane.



## SOFT STOP

Soft Stop is an electronic limit position damper. It provides gentle braking of all crane movements before the mechanical limit stop is reached. The movement sensors facilitate a slow approach of the movements to the limit stop. Faster crane operation with pinpoint accuracy.



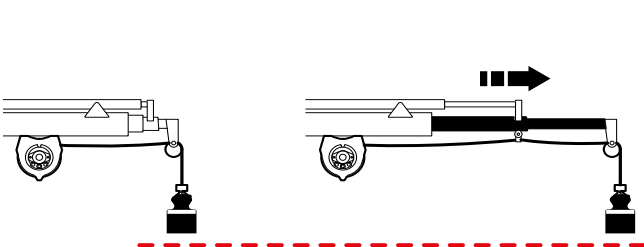
## WINCH

The crane can be equipped with an electronically controlled winch under crane main boom, with the option to extend operation to the jib. Available in single or double line pull configurations for added lifting versatility.



## FLY-JIB CLOSURE WITH WINCH ROPE INSTALLED

Automatic system that allows the crane to be folded while keeping the winch rope mounted on the Fly-Jib, eliminating the process of disassembling the rope.



## SMART WINCH – SYNCHRONIZED CONTROL WINCH

Automatic system that maintains a constant distance between the header and the block, to facilitate the use of the crane with winch and increase efficiency.



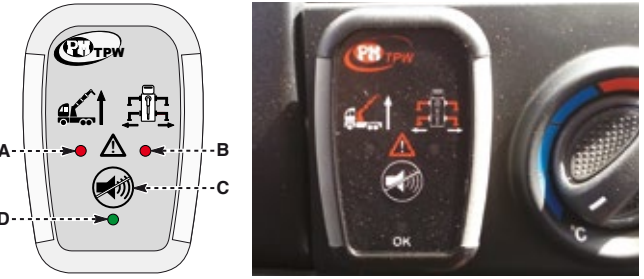
## 180° ROTATING STABILIZER CYLINDERS

The stabilizer cylinders can hydraulically rotate upwards 180° without increasing the crane's footprint.



## POSITION LIGHTS ON STABILIZER CYLINDERS

The stabilizer cylinders can be equipped with LED indicator lights to provide greater visibility of the position and operate safely.



## TPW – TRANSPORT POSITION WARNING

Remote display positioned in the truck cab that signals the closure of the crane and outriggers.



## SUPPLEMENTARY ACTIVATION

Possibility of hydraulically activating additional functions at the tip, with hydraulic hose reels or hose tray. To be used with Jib or other accessories.



## QUICK COUPLING FOR ACTIVATIONS

Simplifies connection and disconnection of jib or accessories. Hydraulic hoses are grouped in a single block and operated by an easy-to-use lever, saving time and effort on-site.



## WORK LIGHT

Powerful, energy-efficient LED lighting for cranes and jibs, ensuring safe, productive operation in low-light conditions.



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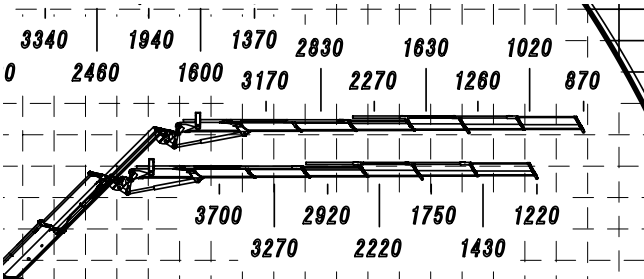
## JIB

Designed with a negative angle of 20°, the jib provides maximum flexibility in tight or difficult-to-access areas. Constructed from special high-strength steel, it combines durability with lightness, allowing greater load capacity and more efficient lifting.



## AUTOMATIC CLOSING

Allows extension and folding of the crane booms with a single lever, simplifying setup and stowage for faster, more efficient operation.



## JMP

The JMP control system dynamically adjusts the jib's maximum pressure, ensuring it always operates at the highest possible performance based on the crane's geometric configuration. This delivers more efficient, powerful, and precise lifting in every position.



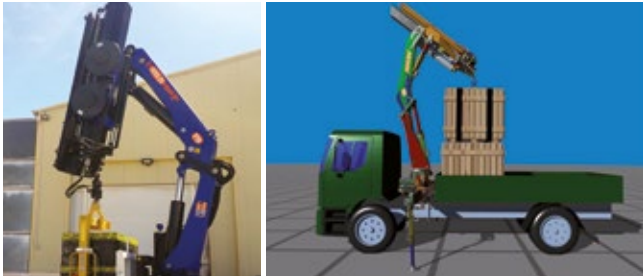
## PM GATEWAY – REMOTE CONNECTION

A cloud-based fleet management system that enables remote monitoring, job data logging, diagnostics, and service scheduling, helping you maximize uptime and simplify maintenance.



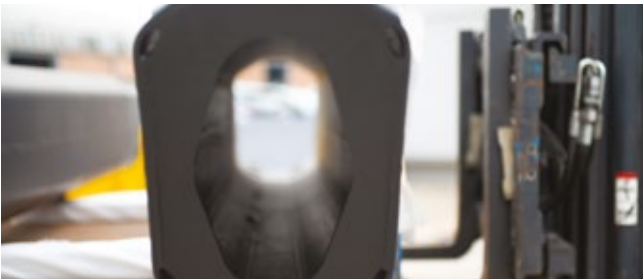
## OIL REGENERATION IN THE EXTENSIONS

Thanks to an innovative regenerative valve, the oil inside the circuit of the extensions is reused before being discharged, to increase the working speed.



## LC / C (LONG / SHORT) TELESCOPIC SYSTEM

The LC version features a hydraulically retractable first boom, making it easier to handle bulky, heavy loads at short range while enhancing loading positions under the column for greater efficiency.



## OCTAGONAL EXTENSION

The octagonal profile maximizes the performance of the high tensile steel extension booms. Thinner thickness profile grants higher loading capacity, lighter boom and crane overall weights without compromising the strength.



## ON-BOARD TANK

All cranes come with an oil tank integrated into the base, reducing footprint and making the most of available installation space for a compact, efficient design.



## FUNCTIONAL DESIGN

Tadano cranes are built with high-quality, durable steels, achieving an ideal weight-to-power ratio while maintaining a simple, practical, and highly functional design for reliable performance.



COMPLETE RANGE OF ACCESSORIES

FOR EVEN MORE APPLICATIONS



Swivel hooks



Brick grabs



Clamshell buckets



Log grabs



Operator basket



Pallet forks



Hydraulic grapples



Augers



Supplementary outrigger



Hydraulic rotors



Variable hydraulic pumps



Fixed hydraulic pumps



PTO

AT YOUR SERVICE

WE'RE HERE FOR YOU



CUSTOMER SERVICE

Ensuring customer satisfaction is the guiding philosophy behind our Customer Service. We support our customers by remaining accessible, responsive, and attentive to their specific needs. Quickly identifying the root of any issue is central to the way our specialized team responds to customer requests. Our experienced after-sales service engineers are always available to handle service requirements. With the expertise and knowledge gained from many years of working with knuckle boom equipment, they can provide the right solution directly or coordinate with the nearest Service Centre when needed.

AFTER-SALES SERVICE NETWORK

With more than 300 after-sales service centres for knuckle boom cranes, we provide customers with comprehensive support around the world. Relying on our After-Sales Service Network ensures that only genuine spare parts are used, guaranteeing maximum crane performance and reliability. Specialized technical trainers regularly visit after-sales centres to provide continuous training and support, always ensuring the highest level of service and customer satisfaction.

ORIGINAL SPARE PARTS

We apply the same care and attention to the production of spare parts as we do to the design and manufacturing of our cranes. This ensures that every crane maintains the reliability, safety, and superior quality for which Tadano is known. Original spare parts are manufactured to the highest quality standards and are designed to meet the exact specifications and safety requirements of our cranes. To maintain the high safety standards associated with Tadano products, we recommend using genuine spare parts for repairs and maintenance.



**[www.tadano.com](http://www.tadano.com)**

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