

PALMS

BUILT WITH PASSION



PALMS FIFTH GENERATION INNOVATIONS

Palmse Mehaanikakoda (PALMS) is a family business founded in 1992 by a father and son.

Today, PALMS is the largest producer of forestry trailers and cranes in Europe. We have achieved the leading position through persistent product development and continuous quality improvement.

PALMS is founded on four core values:

- **Passion** for building the best equipment in our field.
- **Innovation** that makes forestry work easier for our customers.
- Uncompromising product **quality**.
- Value of long-lasting **customer relationships**.

Our latest fifth generation of PALMS forest cranes and trailers is not plainly playing with words. Those are the products that are among the best you can buy.

Join the PALMS family and choose a reliable tool appropriate for your needs.

Anti Puusepp
Palmse Mehaanikakoda
co-founder and chairman



3-YEAR PALMS WARRANTY

3-year warranty for frames, pillars, and booms.



SLEWING CONNECTIONS

PALMS patented shaft system for pivoting connections reduces maintenance costs and increases crane's durability.*



PROTECTED HOSE ROUTING

We have developed a unique and well-protected routing for hydraulic hoses from boom to rotator. This design significantly increases the durability and reliability of PALMS cranes.



STRENX™ STEEL

PALMS production is complemented by the SSAB quality certificate "My Inner Strenx™." All our cranes are produced using top-quality Swedish Strenx™-steel.



NEW GENERATION PAINT COATING

Cathodic dip coating combined with powder coating ensures longer service life and significantly higher resale value.



IMPROVED WORK PLATFORM

The foldable operator platform and ladder are comfortable and easy to use.



TURNING HOUSING DESIGN

PALMS cast iron turning housings provide a significantly longer service life compared to conventional welded turning housings.



SAFETY GRILLS

PALMS trailers have strong and reliable safety grills which comply with EU directives.



TESTED DRAWBARS

All PALMS drawbars meet the latest EU standards.



UNIBODY FRAME TYPE

The high clearance and unibody design of PALMS U-series trailers minimize the risk of getting stuck behind tree stumps and other obstacles. All hydraulic components are hidden inside a frame and can be easily accessed for maintenance.



LOCKABLE BOLSTERS

Patented system for quick, easy, and secure bolster locking.*

*Not available for all models.

FORESTRY CRANES

7.87

7 – indicates the series.
A lower number indicates
a smaller model, just like
with cars.

87 – indicates the
maximum reach of
the crane (8.7 m).





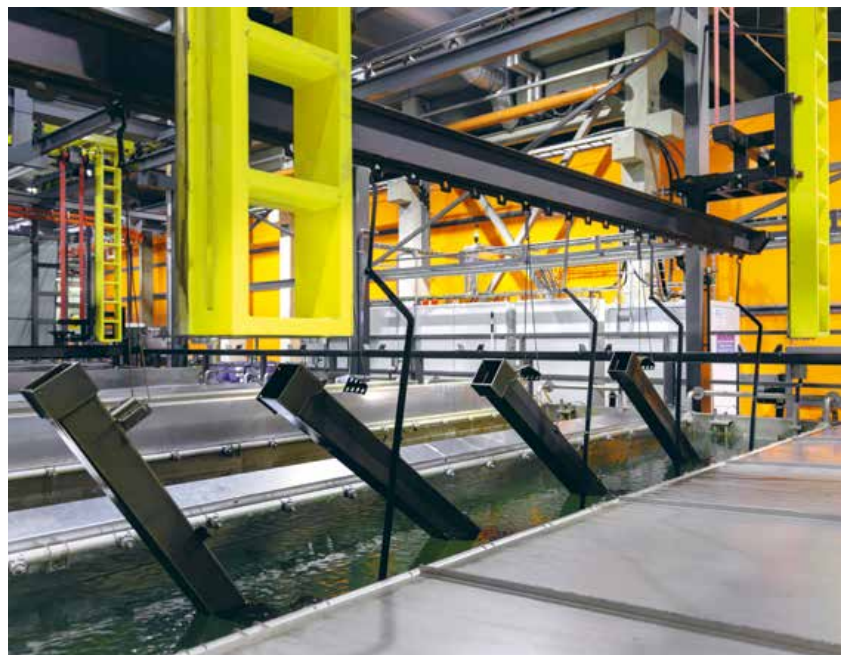
2ND SERIES cranes are the smallest in PALMS cranes selection. The lightweight and compact size make these cranes a perfect choice for municipal parks and other environmentally sensitive areas.

Our 2nd series cranes can be mounted on different platforms, from forestry trailers and trucks to mini-forwarders.



COATING TECHNOLOGY: KTL + POWDER

To ensure longer service life and higher resale value, all PALMS products receive an EPO primer coating by cataphoresis treatment before being powder coated. The KTL dip-coating ensures that all inner and outer surfaces of PALMS products are protected from corrosion.



3RD SERIES cranes are designed for small forest landowners. These cranes are ideally suited for preparing firewood for you and your neighbour, as well as for other common lifting works in farms.



4TH SERIES represents PALMS medium-sized cranes. Due to their versatility, these cranes are used in multiple fields, including arboriculture, farming, and land development. 4th series cranes are often used with small forwarders due to their technical parameters.



SLEWING CONNECTIONS (PATENT EP 3 239 540 A1)

PALMS patented shaft system is designed to reduce maintenance costs and increase the crane's durability. The special coating of boom shafts makes connections more durable and gives them a lower friction coefficient which in turn reduces fuel consumption.



5TH SERIES cranes are designed for everyday professional forestry work on soft terrain. PALMS 5.75 and 5.85 cranes are optimized for use with medium-sized tractors and can be mounted on a wide choice of trailers.



HIDDEN HYDRAULIC HOSES (PATENT EE 01484 U1)

The forest crane's most vulnerable component is hydraulics. Damaged hydraulic hoses mean wasted workdays. For better protection, PALMS engineers placed hydraulic components inside the telescopic boom.

PPR - PALMS Protected Hose Routing solution between boom and rotator has passed the hardest tests in forests.

7TH SERIES cranes represent PALMS' heavy-duty range. In addition to our larger trailers, these cranes can be placed on chippers or mounted directly to the tractor's frame. Higher slewing torque and lifting capacity make these cranes a good choice for working with harvester heads or operating on steep slopes.



TURNING HOUSINGS

Slewing mechanism is the heart of a crane. Cast iron used in our turning housings is custom developed for PALMS forestry cranes to ensure uncompromised reliability.



Scan to
watch
demo



IMPROVED

X100 is the next step in our crane development as it is the most advanced crane in our product range. X100 is a compliment to the best engineering solutions and long constructing experience. We are proud to present PALMS X100.



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watch
demo



TRAILERS



PALMS trailer model names refer to frame type (indicated by letter) and nominal loading capacity (indicated by number).

S – Single beam trailer

D – Double beam trailer

U – Unibody type trailer

MWD – Mechanical 4WD

HMWD – Hydro-mechanical 4WD

10D

is a double beam trailer with a nominal loading capacity of 10 000 kg.

*The actual loading capacity depends on additional equipment and installed crane.

HD **HEAVY DUTY**

Heavy Duty indicates that the product is one of the most advanced and capable forestry machines of the series.

S-SERIES forestry trailers are light and compact. The gross weight of a trailer depends on the model, ranging between 8,5–12 tons. Single beam trailers are suitable for 2nd, 3rd, 4th, and 5th series cranes.



AVAILABLE WITH
EU TYPE APPROVAL



EXTENDABLE FRAME

PALMS forestry trailers can be ordered with an option of an extendable frame. Frames can be extended up to 1 m of extra length. Extensions are provided with and without bolsters and bunk. U- and MWD-series have a hydraulic extension option.



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D-SERIES trailers have a strong double beam frame design that provides a large loading capacity. These trailers can be combined with 3rd, 4th, 5th, and 7th series cranes.



DRIVE OPTIONS FOR D-SERIES

- **RWD** PALMS Robson Wheel Drive controlled with tractor's hydraulics.
- **RWD+** PALMS Robson Wheel Drive with adjustable speed and hydraulic differential lock.
- **2WD** PALMS 2WD with BlackBruin hydraulic motors.



AVAILABLE WITH
EU TYPE APPROVAL



LOCKABLE BOLSTERS (PATENT EP 3284659)

Our unique patented bolster locking system enables quick and secure bolster locking without any additional tools. This innovation is in standard equipment for PALMS 10D, 12D, 14D, 10U, and 12U trailers.



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U-SERIES trailers are designed for heavy logging. Unibody frame made of Strenx™ steel offers a remarkable weight and durability ratio. Numerous safety grill and bolster positioning options enable U-series trailers to be adjusted for the required load length.



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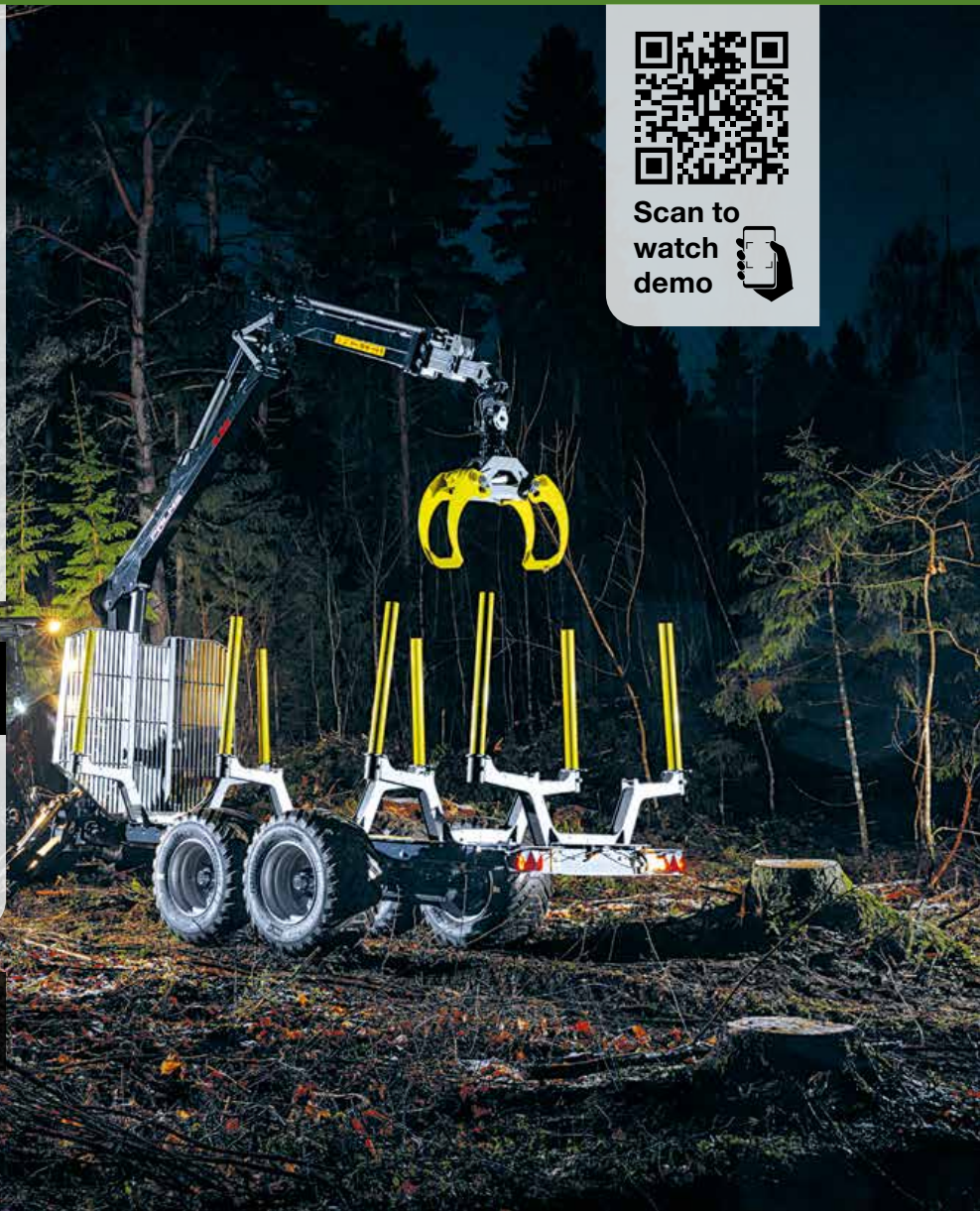


DRIVE OPTIONS FOR U-SERIES

- **2WD** PALMS 2WD with BlackBruin hydraulic motors
- **4WD** BlackBruin 4WD with two-speed hydraulic motors



AVAILABLE WITH
EU TYPE APPROVAL



INCREASED LOAD AREA

When it comes to forestry trailers, a load area is more important than loading capacity. A larger load area results in higher productivity and economic efficiency.

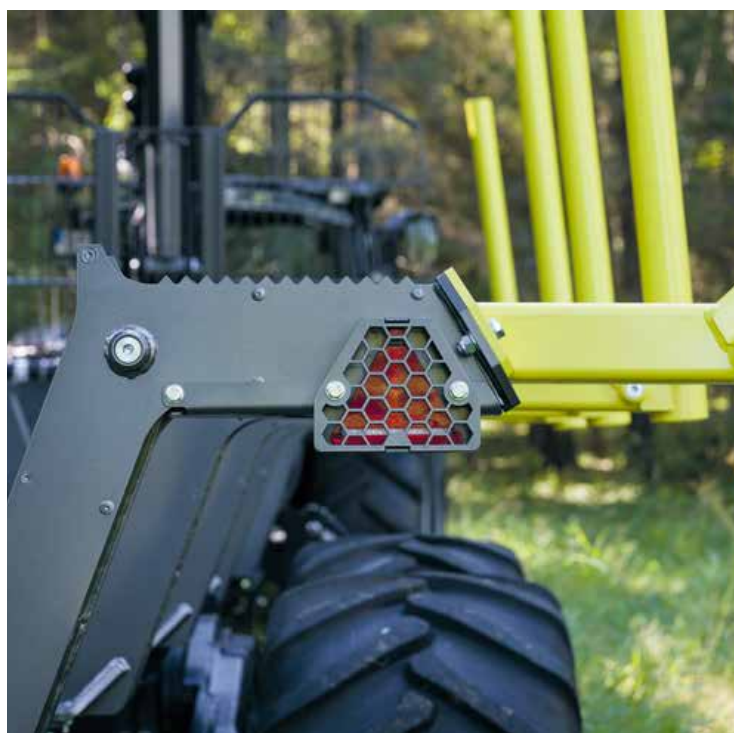
As an extra option, we provide:

- bolster extensions
- hydraulic and mechanical loading area widening systems for the U-series and the MWD-series trailers.



U-SERIES TRAILERS ARE AVAILABLE WITH

- Regular bolsters
- Forwarder type bolsters (standard for 15U)



After serious tests in the forest, PALMS proudly presents **MWD-SERIES** forestry trailers. Thanks to the mechanical 4-wheel drive, this bad boy gets you through the toughest terrains. This professional trailer has NAF axles and is available with mechanical (MWD) or hydro-mechanical (HMWD) drives.

HD HEAVY DUTY



AVAILABLE WITH
Y-DRAWBAR



DRIVE OPTIONS FOR MWD-SERIES

- **Fully mechanical**

MWD 3.2 needs a customized transmission box between the tractor's ground speed PTO and trailer axles. Therefore, the MWD 3.2 can only be used with a tractor for which this trailer has been designed.

- **Hydromechanical**

HMWD 3.2 has a hydro-mechanical transmission between the tractor's PTO and axles. This 4x4 system is universal and fits onto all suitable sized tractors with PTO. LS hydraulic pump allows operating a trailer as well as the crane.



COMPACT SET



NEW

If this were an Italian sports car, it might be called *piccolo*, *agile* or *compatto*. But these names would reduce the robust performance of our new **COMPACT SET**. With its 1500 kg gross weight and 4.2 m lifting reach, it is still lightweight enough to be towed by compact tractors and all terrain vehicles. Despite its size, the COMPACT SET includes our premium features like double beam trailer frame and KTL+powder coating.



CUSTOMISE TO YOUR NEEDS



PALMS COMPACT SET can be ordered with Robson wheel drive, biomass box and many more additional equipment.

ADDITIONAL EQUIPMENT

CONTROL OPTIONS

A23



Parker LC6 joysticks

A23.1



Bluetooth dongle

+



Parker LC6 joysticks

A25.1



MD3 display

+



Parker LC6 joysticks

A25.3



MD4 touchscreen display

+



Parker LC6 joysticks

A36



IMET radio control

+



Parker LC6 joysticks

A42 PALMS TIP control



MD4 touchscreen display

+



Parker LC6 joysticks



A3.1



A4/A4.2,
hydraulic
4/8 XY +
2x el. on-off



A7,
mechanical
4/8 XYZ



A11/A12/A14,
pre-hydraulic
2/8 with hydraulic +
2x el. proportional



A20.1,
full electric
Caldaro
joysticks



A26/A26.1/A36,
IMET radio
control

SUPPORT LEGS



A-TYPE SUPPORT LEGS



FD-TYPE SUPPORT LEGS



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ADDITIONAL EQUIPMENT



Biobox



Loading area widening for forwarder type bolsters



Parking support with jack



Hydraulic loading area widening



Rear lights





Base frame for sorting



Hay bale frame



PALMS 4 WD (roller drive between wheels)



Radio-controlled winch



New drawbar lock



Oil pump

ADDITIONAL EQUIPMENT



Boom guard



B11 tilting support legs



Top seat



LED-work lights with safety glass



BB remote



Working platform with ladder



Joystick holders

COMBINE FOR YOUR SPECIFIC NEEDS



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