



Jarcrac forest machines

www.jarcrac.com



Finnish manufacturer of light, forest-friendly forest machines

What started as a welding hobby in 1998, turned into a line of products designed for forestry professionals who want to work with the machines the whole year-round, no matter the season, while keeping the forest and the ground in healthy shape.

Nowadays *Jarcrac's* forestry product line consists of small forwarders, dual machines, and harvesters, available as 8-wheeled or tracked versions suited especially for thinnings and sensitive, soft grounds.

The main design ideas at *Jarcrac* are simplicity, reliability, and ease of maintenance. The chosen components consist of well-known brands which help us provide a large service network.

Jarcrac forwarders



Two models available:

Jarcrac Magnapro (8-wheeled version) - 6000 kg load capacity

Jarcrac Evopro (tracked version) - 5000 kg load capacity

Both forwarders have very low ground pressures and they're ideal for working in young forests and difficult terrain all around the year while avoiding ground damage. The crane for the forwarders is Palms 4.71 and as standard, the machine comes with Parker control hydraulics.

Despite the compact dimensions, the forwarders are stable and strong, so working with heavier and bigger timber is also a great fit for the machines.



Technical specifications – Jarcrac forwarders

Dimensions and weight:

• Length: 790 cm (710 cm when the load space extension is folded in)
• Width: 8-wheeled version: 225 cm, and tracked version: 215 cm
• Height: 8-wheeled version: 302 cm, and tracked version: 295 cm
• Ground clearance: 56 cm
• Weight: appx. 6500 kg

Load space:

• Load space length: 360 cm, includes a foldable 80 cm extension
• 3 pairs of stakes
• Also available with a 425 cm load space with 4 pairs of stakes
• Front grid surface area: 8-wheeled version: 2,2 m ² , and tracked version: 1,8 m ²
• Load capacity: 8-wheeled version: 6000 kg, and tracked version: 5000 kg

Chassis and bogies:

• Bogie system: swinging bogies
• 8-wheeled version tires: 8 x 500/50-17
• Tracked version track width: 55 cm
• Track structure: rubber/fabric -mixture, steel shoes
• Frame lock: with 2 cylinders, activates automatically
• Steering: articulated steering with 2 cylinders
• Steering angle: $\pm 45^\circ$
• Hydraulic drive lock
• Toolbox in the front of the machine

Cabin:

• ROPS, OPS & FOPS-certified
• Cabin supported with 4 rubber cushions
• Heat and sound insulation
• Heating/cooling: automatic air conditioning with a digital screen
• Cabin is tippable, used with a manual hand pump
• Seat: Grammer, ergonomic operator seat with air suspension
• Windows: Margard safety glass

Electric system:

• Voltage: 12 V
• Alternator: 95 A
• Battery: 95 Ah
• Base machine and crane control system: Parker IQAN with a touch screen
• Caldaro Palmgrip joysticks for crane control, also Parker LC6 joysticks are available
• Drive function operated with pedals, steering via the right side crane joystick
• Other: separate joystick for steering is also available

Engine:

• Perkins 2,8 l turbocharged industrial engine, 55 kW & 300 Nm, Stage V
• Automatic work rpm adjustment + manual adjustment via a potentiometer
• Fuel tank: 70 l

Transmission and hydraulics:

• Drive speed: speed range 1: 0-6 km/h and speed range 2: 0-10 km/h, in addition, there's a 0-100% drive speed potentiometer for speed range 1
• Drive pumps: 2 x Bondioli&Pavesi
• Drive motors: Poclain
• Brakes: hydraulic closed-circuit functions as a driving brake, every bogie also has a safety/parking brake
• Work pump (crane/steering/harvesting head): 1 x variable displacement LS-pump (Bondioli&Pavesi)
• Valve block: Parker L90
• Hydraulic oil cooler: electric

Crane:

• Model: Palms 4.71
• Reach: 7,1 m
• Slewing torque: 15 kNm
• Lifting torque (gross): over 48 kNm
• Other: Palms 5.72 is also available

Accessories:

• Large variety available (for example: sunscreens, engine pre-heater, winches, energy wood grapple, wheel tracks and chains for the 8-wheeled version). Ask more from your local supplier: www.jarcrac.com
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Jarcrac harvesters



Two models available:

Jarcrac Magnapro Eco (8-wheeled version)

Jarcrac Evopro Eco (tracked version)

Both harvesters have very low ground pressures and they're ideal for working in first and second thinnings all around the year while avoiding ground damage. Operating the machine is pleasant in all terrain and visibility is good all around.

The harvesters come with a low pillar crane from Mowi and the crane bed has a $\pm 20^\circ$ tilt. Several harvesting head and measuring device options are available.



Technical specifications – Jarcrac harvesters

Dimensions and weight:

• Length: 680 cm (+ crane and harvester head)
• Width: 8-wheeled version: 225 cm, and tracked version: 225 cm
• Height: 8-wheeled version: 302 cm, and tracked version: 295 cm
• Ground clearance: 56 cm
• Weight: appx. 7000 kg

Chassis and bogies:

• Bogie system: swinging bogies
• 8-wheeled version tires: 8 x 500/50-17
• Tracked version track width: 55 cm
• Track structure: rubber/fabric -mixture, steel shoes
• Frame lock: with 2 cylinders, activates automatically
• Steering: articulated steering with 2 cylinders
• Steering angle: $\pm 45^\circ$
• Hydraulic drive lock
• Toolbox in the front of the machine

Cabin:

• ROPS, OPS & FOPS-certified
• Cabin supported with 4 rubber cushions
• Heat and sound insulation
• Heating/cooling: automatic air conditioning with a digital screen
• Cabin is tippable, used with a manual hand pump
• Seat: Grammer, ergonomic operator seat with air suspension
• Windows: Margard safety glass

Electric system:

• Voltage: 12 V for the base machine and 24 V for the harvesting head
• Alternator: 95 A
• Battery: 95 Ah
• Base machine and crane control system: Parker IQAN with a touch screen
• Caldaro Palmgrip joysticks (12 buttons per joystick) for crane and harvester head control
• Drive function operated with pedals, steering via the right side crane joystick
• Other: separate joystick for steering is also available

Engine:

- Perkins 2,8 l turbocharged industrial engine, 55 kW & 300 Nm, Stage V
- Automatic work rpm adjustment + manual adjustment via a potentiometer
- Fuel tank: 70 l

Transmission and hydraulics:

- Drive speed: **speed range 1:** 0-6 km/h and **speed range 2:** 0-10 km/h, in addition, there's a 0-100% drive speed potentiometer for speed range 1
- Drive pumps: 2 x Bondioli&Pavesi
- Drive motors: Poclain
- Brakes: hydraulic closed-circuit functions as a driving brake, every bogie also has a safety/parking brake
- Work pump (crane/steering/harvesting head): 1 x variable displacement LS-pump (Bondioli&Pavesi)
- Valve block: Parker L90
- Hydraulic oil cooler: electric

Crane:

- Model: **8-wheeled version:** Mowi P61T, and **tracked version:** Mowi P50
- Reach: 7,5 m (P61T) and 6,5 m (P50)
- Slewing torque: 15 kNm
- Lifting torque (gross): 52 kNm (P61T) and 45 kNm (P50)
- Crane tilt: $\pm 20^\circ$

Harvesting head:

- Model: Nisula 425H
- Maximum cutting diameter: 425 mm, delimbing diameter: 320 mm
- Delimbing knives: 4 + 1
- 2-way brake pendant, automatic saw chain tensioner, saw control
- Other: Kesla 16RH, Log Max 2000T, Keto-Forst Xtreme V2 also available

Measuring device:

- Nisula NCU3X with a 7" color screen
- Value bucking, cubing, data transfer readiness, and StanForD 2012 -compatible
- Tablet PC (GPS and 4G, Windows 10), dock and GPS antenna

Accessories:

- Large variety available (for example: sunscreens, engine pre-heater, winches, energy wood grapple, wheel tracks and chains for the 8-wheeled version). Ask more from your local supplier: www.jarcrac.com

Jarcrac dual machines



Two models available:

Jarcrac Magnapro Dual (8-wheeled version) - 6000 kg load capacity

Jarcrac Evopro Dual (tracked version) - 5000 kg load capacity

These Dual machines are ideal for working in young forests and difficult terrain all around the year while avoiding ground damage. Crane for the machines is Palms 4.71 and several harvesting head and measuring device options are available.

Enables effective harvesting and forwarding, both with 1 machine.
Transformation from forwarder to harvester only in around 15 minutes.



Technical specifications – Jarcrac dual machines

Dimensions and weight:

• Length: 790 cm (710 cm when the load space extension is folded in)
• Width: 8-wheeled version: 225 cm, and tracked version: 215 cm
• Height: 8-wheeled version: 302 cm, and tracked version: 295 cm
• Ground clearance: 56 cm
• Weight: appx. 6500 kg

Load space:

• Load space length: 360 cm, includes a foldable 80 cm extension
• 3 pairs of stakes
• Also available with a 425 cm load space with 4 pairs of stakes
• Front grid surface area: 8-wheeled version: 2,2 m ² , and tracked version: 1,8 m ²
• Load capacity: 8-wheeled version: 6000 kg, and tracked version: 5000 kg

Chassis and bogies:

• Bogie system: swinging bogies
• 8-wheeled version tires: 8 x 500/50-17
• Tracked version track width: 55 cm
• Track structure: rubber/fabric -mixture, steel shoes
• Frame lock: with 2 cylinders, activates automatically
• Steering: articulated steering with 2 cylinders
• Steering angle: $\pm 45^\circ$
• Hydraulic drive lock
• Toolbox in the front of the machine

Cabin:

• ROPS, OPS & FOPS-certified
• Cabin supported with 4 rubber cushions
• Heat and sound insulation
• Heating/cooling: automatic air conditioning with a digital screen
• Cabin is tippable, used with a manual hand pump
• Seat: Grammer, ergonomic operator seat with air suspension
• Windows: Margard safety glass

Electric system:

• Voltage: 12 V for the base machine and 24 V for the harvesting head
• Alternator: 95 A
• Battery: 95 Ah

- Base machine and crane control system: Parker IQAN with a touch screen
- Caldaro Palmgrip joysticks (12 buttons per joystick) for crane and harvester head control
- Drive function operated with pedals, steering via the right side crane joystick
- Other: separate joystick for steering is also available

Engine:

- Perkins 2,8 l turbocharged industrial engine, 55 kW & 300 Nm, Stage V
- Automatic work rpm adjustment + manual adjustment via a potentiometer
- Fuel tank: 70 l

Transmission and hydraulics:

- Drive speed: **speed range 1:** 0-6 km/h and **speed range 2:** 0-10 km/h, in addition, there's a 0-100% drive speed potentiometer for speed range 1
- Drive pumps: 2 x Bondioli&Pavesi
- Drive motors: Poclain
- Brakes: hydraulic closed-circuit functions as a driving brake, every bogie also has a safety/parking brake
- Work pump (crane/steering/harvesting head): 1 x variable displacement LS-pump (Bondioli&Pavesi)
- Valve block: Parker L90
- Hydraulic oil cooler: electric

Crane:

- Model: Palms 4.71
- Reach: 7,1 m
- Slewing torque: 15 kNm
- Lifting torque (gross): over 48 kNm
- Other: Palms 5.72 is also available

Harvesting head:

- Model: Keto-Forst Xtreme V2
- Maximum cutting diameter: 400 mm, delimbing diameter: 250 mm
- Delimbing knives: 4
- Other: Nisula 425H, Kesla 16RH, Log Max 2000T also available

Measuring device:

- Technion xLogger with a 12,1" touch screen
- Value bucking, cubing, data transfer readiness, and StanForD 2012 -compatible

Accessories:

- Large variety available (for example: sunscreens, engine pre-heater, winches, energy wood grapple, wheel tracks and chains for the 8-wheeled version). Ask more from your local supplier: www.jarcrac.com

Cabin

Our ROPS, OPS and FOPS -certified cabin offers the operator great visibility towards the working area, treetops, and the ground. The controls are set up nicely and offer enough adjustments for every operator.



The ergonomic Grammer seat with air suspension comes standard with the Jarcrac machines. Proper cushioning and possibilities for adjustments make sure that even long shifts feel comfortable.



Terrain capability



Thanks to the minimal ground pressure, low centre of gravity and high ground clearance, the machines are capable of operating in difficult conditions, such as crossing deep ditches.

Maintenance

Simple and sturdy machine design combined with the use of a fully hydrostatic transmission make up for reliable machines that are easy to maintain with very low running costs compared to heavier forest machines.

The service spots are easily accessible, and maintenance itself doesn't take up a lot of time, because there are no needlessly complicated components.



Dimensions

As the machines are small, they can be moved easily from one logging site to another with low transport costs.

These compact dimensions also give the machines very good mobility. Working with them doesn't require wide strip roads, thus allowing for more profitable thinnings since more of the good trees are left in the forest to increase their value.



Notes



Images are for illustrative purposes only. The manufacturer reserves the right to make changes to the technical specifications without prior notice.



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