



NISULA
THE FUTURE OF EFFICIENT LOGGING

6-WHEEL

N5

THINNING HARVESTER

NEW INNOVATIVE THINNING HARVESTER

A WISE INVESTMENT FOR THINNING

RENEWED FRONT FRAME

- New headbox with good space for tools
- Renewed front end protection
- New front frame armour
- Even more robust ZF-axle

RENEWED CABIN

- New roof element with powerful working lights
- New mudguards with integrated working lights
- New cabin interior
 - Even more space for the driver
- Improved high visibility and low visibility
- Renewed air conditioning system

NEW ENGINE

- Agco Power, 4.9 AWF, supercharged and intercooled. STAGE4
- Low fuel consumption (6.8-8.8 l/h in thinning)
- More efficient motor and hydraulic cooling





RENEWED CRANE SELECTION

- Four different Nisula parallel crane options
- Without extension:
P90 and P99 (range 9 and 10 m)
- With hydraulic extension:
P99T and P99.5T (range 10 and 10.5 m)

THINNING HEAD OPTIONS

- For first thinnings:
Nisula 425H and 425C
- For thinnings:
Nisula 500H
- Opportunity to equip grab change ability and two grabs (Nisula 285E+)

NEW INNOVATIVE BACK FRAME

- Thanks to the additional wheels on the back frame the machine's surface pressures are very low (machine weight 14500-14900 kg)
- The longitudinal weight distribution is optimised by the hydraulic pressure of the additional wheels during the drive
- Possibility to use tracks. Tracks will automatically stay tight by means of pressurised hydraulics
- During thinning, the machine is longitudinally very robust when hydraulics will take care of locking the additional wheels

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N5 TECHNICAL DATA

STANDARD EQUIPMENT AND ACCESSORIES

An extensive range of accessories and versatile head and crane alternatives allow you to customise N5 to meet your special needs. It is always sensible to avoid unnecessary investments. N5 with standard equipment is a full-fledged thinning harvester.

N5, STANDARD EQUIPMENT:

- 600/65R34 Nokia Forest Rider tyres
- Nisula P90 parallel crane, reach 9 m
- Nisula 425H harvester head
- Nisula NCU3i measuring device
- Mini levers
- Webasto, air conditioning system
- Stereo equipment, handsfree facility for the mobile phone
- Air suspension seat
- LED lights, 16 pcs for the standard harvester

N5 ACCESSORIES:

- Nisula P99 parallel crane without extension, reach 10,0m
- Nisula P99T parallel crane with hydraulic extension, reach 10,0m
- Nisula P99.5T parallel crane with hydraulic extension, reach 10,5m
- Nisula 425C multi-purpose head
- Nisula 500H harvester head
- Colour marking, stump treatment facility, saw control, automatic chain adjuster
- Head change facility for the accumulating Nisula 285E+ energy wood head
- Nisula NCU3X control system with value and quality scaling and data transfer facility
- Tablet PC for data transfer and map software management
- Calipers
- LED lights for the crane
- Automatic air conditioning system
- GSM control system for the additional heater
- Cool box

ENGINE

N5 is equipped with the reliable Agco Power 4.9 AWI engine. The output torque of this long-stroke, four-cylinder engine is optimal for harvesting. A sufficient hydraulics capacity is reached at 1300-1500 r/min, depending on the felling area and the harvester head. This guarantees extremely low fuel consumption – according to our measurements, about 6.5-8 l/h, depending on the felling area.

Benefits to the customer:

- Reliable Finnish engine
- Low fuel consumption
- Long maintenance intervals

Engine:	Agco Power, 4.9 AWI, supercharged and intercooled
Power	118 kW /2000 r/min (ISO14396)
Maximum torque	708 Nm / 1200 - 1500 r/min
Starter motor	4.0 kW
Batteries	2 x 145 Ah

WORK HYDRAULICS

Pump:	Rexroth
Output:	220-280 l/min depending on the head (2000r/min)
Operating pressure:	210-230 bar depending on the head
Oil tank capacity:	210 litres

Benefits to the customer:

- The operating hydraulics can be optimised for each head – lower consumption

DIMENSIONS

Length	1030 cm (transport position)
Width	268 cm (600 tyres)
Transport height	335 cm (370 cm during on-road transportation)
Weight	14500-14900 kg

POWER TRANSMISSION

The hydrostatic-mechanical power transmission with differential axle locks ensures smooth and safe driving even in the most demanding terrains. Driving is accurate and controlled. Moving from one felling area to another is fast. The maximum transport speed is 40 km/h.

Benefits to the customer:

- Reliable power transmission, simple structure
- Nimble movement in the forest, fast and accurate harvesting operations
- Excellent pulling force, fast and economic transport from one site to another

Power transmission:

- Hydrostatic-mechanical power transmission
- Variable displacement swash plate pump, Sauer 115 cm³/r
- Variable displacement axial piston motor, Sauer 160 cm³/r
- 3 operating modes, HSD driving mode (operation/transport)
- CSD control system
- Drive speed regulator, crawling
- Front and back drive pedal can be used for driving

Gearbox:

- Two-speed gearbox ZF (2HL290)
- Electro-hydraulic control of the gearbox (Power-Shift)
- Speeds, forward/reverse, Gear1, 0...10. 7 km/h, Gear 2, 0...40 km/h

Axles :

- Drive axles in front and rear / ZF 3075
- Axles with differential locks

CRANE ALTERNATIVES



NISULA PARALLEL CRANES

The Nisula parallel cranes are designed for thinning. Fast and accurate manoeuvring, optimal location of the crane for the operator and sufficient lifting and swing torques all contribute to fast and productive work.

The crane can easily be adjusted for the operator through the terminal device. Standard accessory: 9-metre P90 without extended boom. A 10-metre P99 without hydraulic extension and P99T with hydraulic extension are available with both 425 and 500 harvester head series. The reach of P99.5T is 10.5 metres, and it is available with 425H or 425C.

Benefits to the customer:

- Optimal motion paths for harvesting
- Strong and accurate motorised turning
- Accurate adjustment of the crane for the operator
- Dual swing damper adds to accuracy
- Strong crane base with tilting facility
- The crane is made of ultra strong steel
- Three LED lights available as accessory

Technical Specification NISULA P90/P99

Total weight	1510/1580 kg
Reach	9/10 m
Swing torque, gross	31 kNm
Lifting torque, gross	130 kNm
Lifting capacity with full reach	800/700 kg

Technical Specification NISULA P99T / P99.5T

Total weight	1580/1610 kg
Reach	10.0/10.5m
Swing torque, gross	31 kNm
Lifting torque, gross	115 kNm
Lifting capacity with full reach	700/660 kg

HARVESTER HEAD ALTERNATIVES



NISULA 500H

Weight, kg	640
Clean delimiting Ø, mm	430
Single cut Ø, mm (1 stem)	500
Number of delimiting knives	5+1
Opening of front knives, mm	500
Opening of additional knives, mm	720
Width in delimiting position, mm (open/closed)	1200/980
Height in delimiting position, mm (open/closed)	1250/1050
Height in felling position, mm	1120
Operating pressure, bar	210-230
Oil consumption, l/m	140-180

Accessories: Stump treatment facility, colour marking, saw control, automatic chain adjustment

NISULA 425H/C

	425H	425C
Weight, kg	410	425
Clean delimiting Ø, mm	320	300
Single cut Ø, mm (1 stem)	425	425
Number of delimiting knives	4+1	2+1
Opening of front knives, mm	430	430
Grapple opening, mm	580	920
Width in delimiting position, mm (open/closed)	1100/940	1100/940
Height in delimiting position, mm	880	880
Height in felling position, mm	880	880
Operating pressure, bar	210	210
Oil consumption, l/m	120-150	120-150

Accessories: Stump treatment facility, colour marking, saw control, automatic chain adjustment

NISULA 285E+

Weight, kg	330
Grapple opening, mm	930
Cut diameter Ø, mm	280
Single cut Ø, mm (1 stem)	180-240
Operating pressure, bar	180-210
Oil consumption, l/m	80-150

