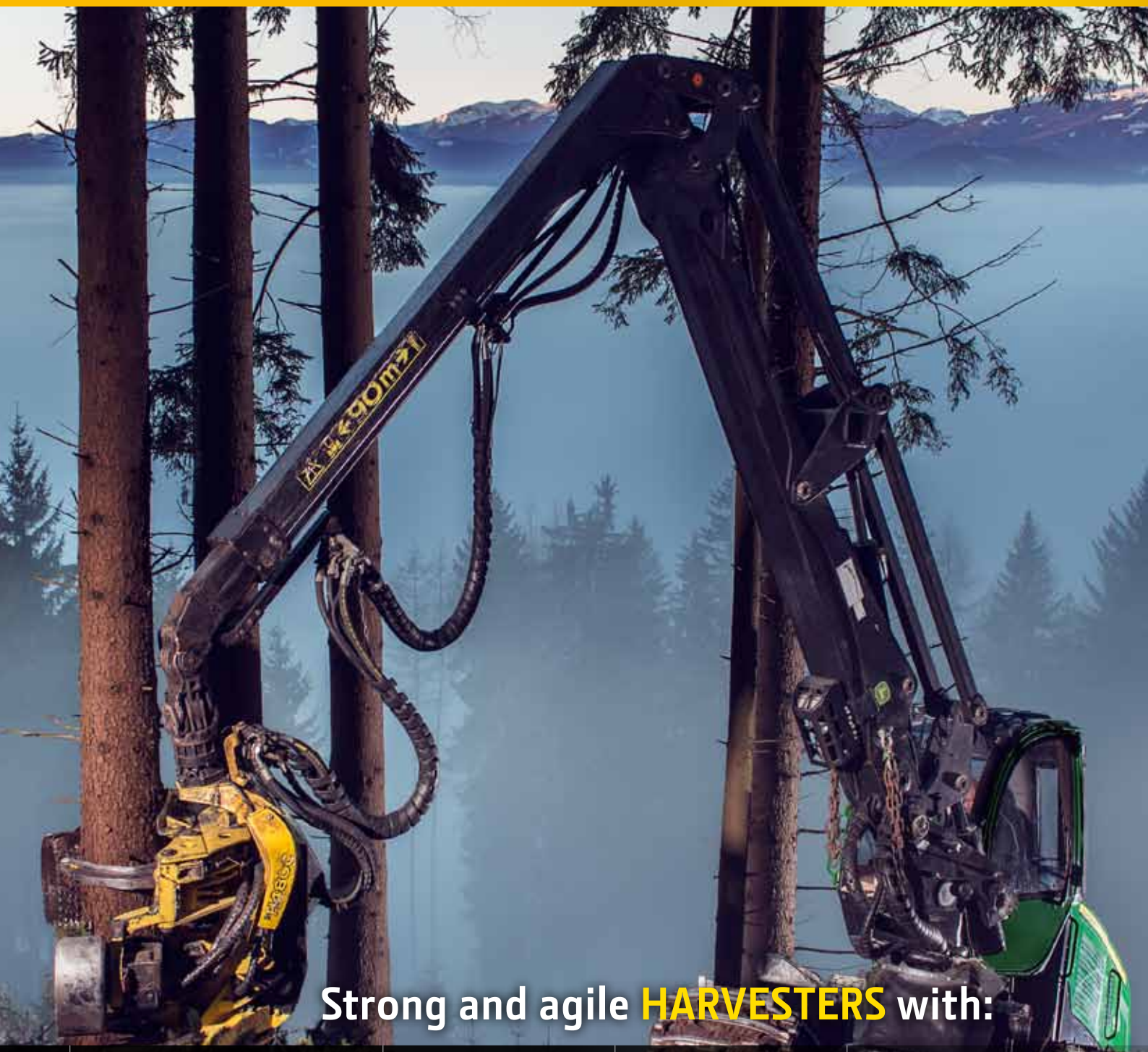
1270E IT4
1470E IT4

JOHN DEERE



Strong and agile HARVESTERS with:

- Outstanding H-12 control system and Processing Power Control
- New CH9 boom
- Enhanced hydraulics
- New 1270E eight-wheel-drive model

Agility, control, and productivity

Certified to EPA Interim Tier 4 (IT4)/EU Stage IIIB emissions, John Deere 1270E and 1470E Harvesters provide excellent boom and harvester head control, as well as a state-of-the-art H12 control system. The 1270E Harvester is also now available in an all-new eight-wheel-drive version for conditions that call for maximum traction and climbing ability.

Highlights

Performance and productivity have been enhanced.

For tough conditions

John Deere E-Series Harvesters come with numerous features to help tackle the most extreme conditions.

Boom and harvester head

Twin-pump hydraulics and Processing Power Control (PPC) enable more precision and speed.

Intelligent solutions

Benefit from cutting-edge technology to make your operation more profitable.

Man and machine

See what a harvester operator has to say about our new models.

HIGHLIGHTS

ENGINE

- Power and torque have been maximized for reduced emissions
- Meets EPA Interim Tier 4 (IT4)/EU Stage IIIB emission regulations without Diesel Exhaust Fluid (DEF), urea, or AdBlue

CONTROL SYSTEM

- TimberMatic H-12 software, and alternately TimberMatic H-12 with configurable user interface
- Reliable CAN-bus hardware minimizes fault alarms and improves monitoring
- Powerful new PC, HPC14
- Processing Power Control (PPC) enables an optimum balance between productivity and fuel economy

POWER TRAIN

- Tractive force has been increased
- 1270E eight-wheel-drive version is available for more demanding terrain
- Strong Duraxle™ heavy-duty balanced bogie axles for excellent climbing ability and traction

From small details to total solution

A great harvester is more than the sum of its parts — it's the result of innovative details and engineering expertise. But what makes a John Deere harvester even greater is that it's backed by the total solution commitment. Besides a great piece of equipment, you also receive our comprehensive after-sales service, including professional maintenance and user-training support.

BOOM AND HARVESTER HEAD

- Twin-pump hydraulics enable simultaneous use of boom and harvester head for enhanced precision and productivity
- New CH9 rigid boom is available for the 1470E

CABIN

- Leveling cabin enhances ergonomics and visibility
- JDLink™ monitoring provides real-time machine-utilization and -health date, plus location information

TIMBERCARE™ SERVICE AGREEMENTS

- Extended service intervals
- Increased uptime
- Less downtime
- Enhanced productivity

When the going gets tough
THE TOUGH GET GOING

The eight-wheel-drive John Deere 1270E Harvester is especially designed for steep slopes and soft soil applications. This new option helps improve traction and maneuverability in demanding terrain.
The rotating and auto-leveling cabin provides unobstructed visibility to the end of the boom and the harvester head. Other new features include improved hydraulics and Processing Power Control (PPC) to increase productivity by five to 15 percent.

The benefits of the eight-wheel-drive 1270E Harvester

- Greater stability
- Excellent steep-slope climbing and downhill maneuverability
- Higher total traction
- 11-percent more engine power and torque
- Low ground pressure
- Reliable Duraxle™ heavy-duty balanced bogie axles
- High ground clearance
- Compact and well-balanced design

Equipped with strong Duraxle bogie axles with customized balancing gear units, eight-wheel-drive harvesters provide excellent stability and a wider approach angle to enable the best possible performance in demanding terrain conditions.

Owner point of view: The eight-wheel-drive experience

"Previously, our company had only six-wheeled John Deere machines, so it's easy to see the benefits of the eight-wheel drive for harvesting. In the terrain we work in, we notice the benefits the new machine brings everywhere, from the forest roads all the way to the logging sites where the slopes are quite high and steep. The approach angle both to the front and rear is perfect. Technically, it is an excellent solution. The tractive force of the machine can now be fully utilized and has also increased, allowing us to drive the eight-wheeler on very steep slopes without the machine losing any stability."

– Johannes Tazreiter
co-owner of the company Huber & Tazreiter GmbH, Austria

SEE OUR MACHINERY IN ACTION:

The rotating and leveling cabin turns 160 degrees. Available in both six- and eight-wheel-drive harvester models, it provides 360 deg. visibility to your surroundings and of boom movements, and ensures safe and efficient harvester operation.

PRODUCTIVITY, performance, and accuracy

Productivity demands innovative machine design. That's why John Deere invests in developing new products as well as the software and hardware that supports them. For example, the twin-pump hydraulic system and Processing Power Control (PPC) have been designed to make every work shift as productive and comfortable as possible.

Presenting the revolutionary twin-pump hydraulic system: The new John Deere 1270E and 1470E Harvesters are standard equipped with two open-loop hydraulic pumps — one primarily dedicated to the harvester head and the other to the boom.

PPC balances processing power and fuel economy in various logging conditions. Just select the desired level and the PPC software takes care of the rest. TimberLink™ displays a report on the in-cab monitor.

Deere 1270E and the 1470E Harvesters can be equipped with your choice of two- or four-roller harvester heads to provide maximum timber-cutting power and excellent delimbing quality in all diameter ranges. Optionally equipped with a multi-tree-handling unit, stump-treatment equipment, and a color-marking system, John Deere harvester heads help increase the efficiency and profitability of your operation.

The advantages of twin-pump and PPC hydraulics

- Faster and more efficient operation
- Savings in time, fuel and operating costs
- Power-management system for additional performance

The twin-pump hydraulic system ensures sufficient power delivery for simultaneous use of the boom and harvester head. This maximizes boom maneuverability, guarantees sufficient grip to the tree, and increases productivity and operator comfort.

The hydraulic power solution also includes an innovative power-management feature that anticipates the engine load and responds with an appropriate power surge for improved fuel economy and total productivity. This ultimately helps reduce daily operating costs.

John Deere has a large selection of productive and durable harvester heads available with two- and four-feed rollers, depending on your purpose.

The 1470E boasts a new durably structured CH9 boom with improved lifting and slewing torque and hydraulics so you can move even larger loads smoothly and accurately.

INTELLIGENT SOLUTIONS to improve productivity

Cutting-edge John Deere technology helps you make your operator more productive and your business more profitable. And our innovative tools help you minimize fuel expenses and other daily operating costs.

The **TimberMatic H-12** is a reliable and easy-to-use E-Series Harvester control system. Including measuring, bucking, and basic machine-adjustment functions, it helps make your daily routine easier and more manageable.

A configurable user interface, shortcut keys for accessing often-used settings, operator-specific adjustments, and interactive selections all help synchronize operating parameters. The control-system manual opens directly to the guideline page for quick reference when needed.

The **TimberLink**™ monitoring system is the key to the productivity and fuel economy of your E-Series Harvester. Delivering detailed assessments of machine uptime and productivity for review in the cab or at an off-site office, contractors, operators, and maintenance personnel can all appreciate the many benefits of TimberLink.

The TimberMatic H-12 is an easy-to-use automation system that both optimizes and facilitates production, timber measurement, and basic machine-control functions. The new PC, HPC14, further helps meet the demanding requirements of the forest industry.

John Deere is the only forest-machine manufacturer to design and provide performance- and machine-monitoring systems.

PROCESSING POWER CONTROL (PPC)

– The balance between fuel economy and power

A standard feature on the new 1270E and 1470E Harvesters, PPC is a software innovation that helps balance processing power and fuel economy in various logging conditions. With just a push of a button, you can choose between three different power levels, and the PPC software takes care of the rest. The power level selected is displayed on your screen.

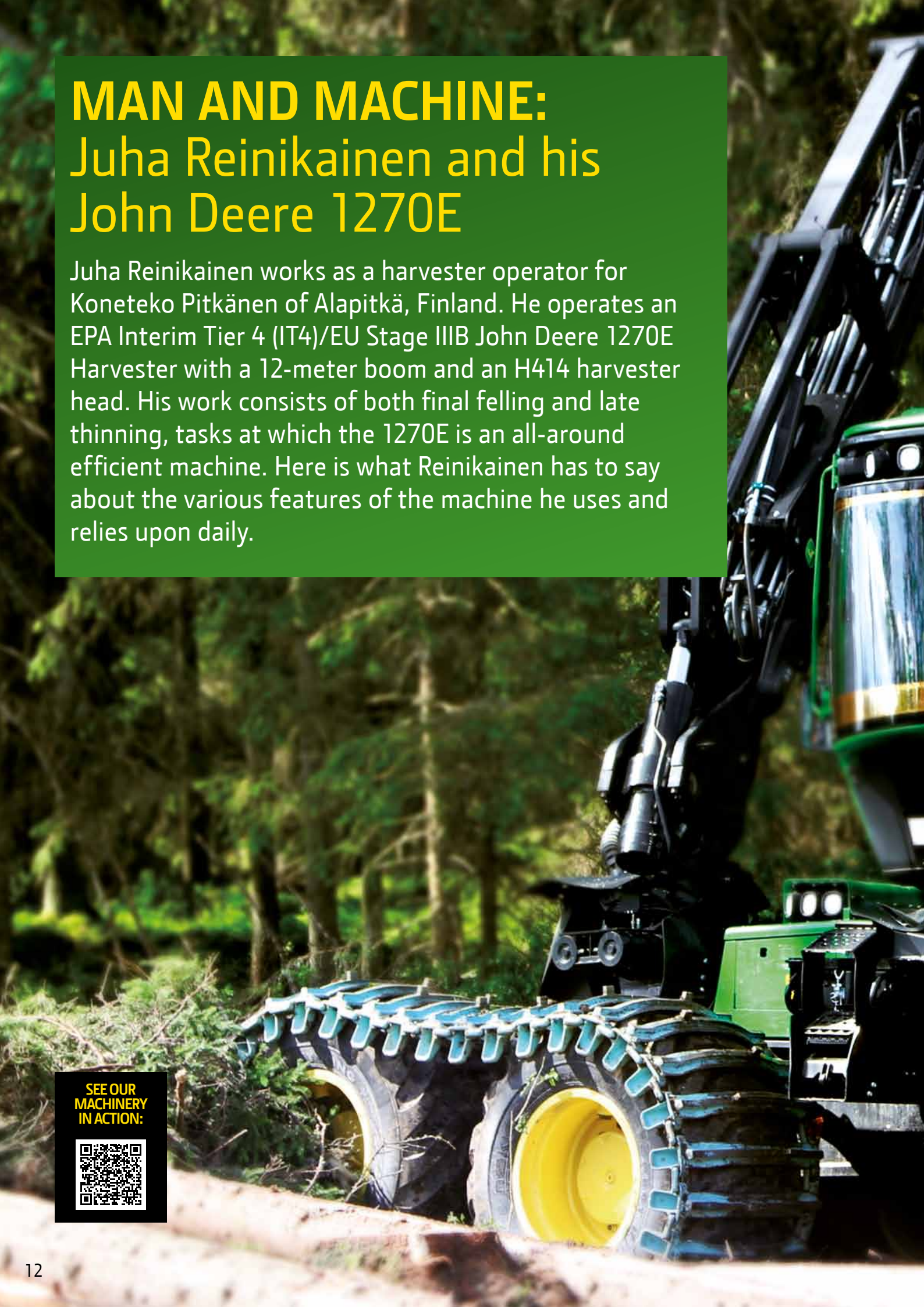
Three PPC levels:

- **Level 1:** small-diameter tree handling for thinning
- **Level 2:** nominal tree sizes
- **Level 3:** thick and heavy trunks

Now you can easily monitor the productivity, fuel efficiency, machine location, and various other functions of your fleet from your office. JDLink™ Ultimate is free of charge for three years with the purchase of a new machine. The TimberOffice™ 5 fleet-management system is available for purchase at your local John Deere Forestry dealer.

MAN AND MACHINE:
Juha Reinikainen and his John Deere 1270E

Juha Reinikainen works as a harvester operator for Koneteko Pitkänen of Alapitkä, Finland. He operates an EPA Interim Tier 4 (IT4)/EU Stage IIIB John Deere 1270E Harvester with a 12-meter boom and an H414 harvester head. His work consists of both final felling and late thinning, tasks at which the 1270E is an all-around efficient machine. Here is what Reinikainen has to say about the various features of the machine he uses and relies upon daily.



SEE OUR MACHINERY IN ACTION:

Processing Power Control (PPC)

"I use the PPC function a lot. All you need to do is to select one of the three power levels with a push of a button, even while processing, and the software takes care of the rest. There is always enough power, and you will save fuel."

Twin-pump hydraulics

"The twin-pump system means you can efficiently use the boom and the harvester head at the same time, so the working process becomes very smooth."

Great ergonomics and outstanding visibility

"This reliable, high-quality harvester is ergonomic thanks to the rotating and leveling cabin."

Comprehensive service and training

"I'm pleased with the cooperation of John Deere and my dealer. I find the technical support and after-sales services are professional and easy to reach."

Better productivity and fuel economy

"It's easy to see in my everyday work, John Deere's new IT4 features clearly improve the efficiency of timber cutting and handling."

1270E IT4 and 1470E IT4 technical data

	1270E IT4 6W	1270E IT4 8W	1470E IT4
DIESEL ENGINE	John Deere 6090 PowerTech™ Plus turbocharged, charge air cooled, 6 cylinders, 9.0L displacement	John Deere 6090 PowerTech™ Plus turbocharged, charge air cooled, 6 cylinders, 9.0L displacement	John Deere 6090 PowerTech™ Plus turbocharged, charge air cooled, 6 cylinders, 9.0L displacement
Maximum Power	170 kW (228 SAE hp) @ 1,900 rpm	190 kW (255 SAE hp) @ 1,900 rpm	190 kW (255 SAE hp) @ 1,900 rpm
Torque	1125 Nm @ 1,200–1,400 rpm	1250 Nm @ 1,200–1,400 rpm	1250 Nm @ 1,400 rpm
Fuel Tank Capacity	435 L	390 L	435 L
TRANSMISSION	Hydrostatic-mechanical, 2-speed gearbox	Hydrostatic-mechanical, 2-speed gearbox	Hydrostatic-mechanical, 2-speed gearbox
Tractive Force	175 kN	210 kN	180 kN
Travel Speed, Gear1	0–7,5 km/h	0–7 km/h	0–7,5 km/h
Travel Speed, Gear2	0–22 km/h	0–21 km/h	0–22 km/h
STEERING	Proportional frame steering with mini levers ±44 deg.		Proportional frame steering with mini levers ±44 deg.
Turning Angle			
BRAKES	Service and work brakes are hydraulically actuated, oil- immersed, multi-disc brakes; parking and emergency brakes are spring actuated; frame oscillation brake is automated		Service and work brakes are hydraulically actuated, oil-immersed, multi-disc brakes. Parking and emergency brakes are spring actuated. Frame oscillation brake is automated.
AXLES/BOGIES	Hydromechanical differential lock at front and rear	Hydromechanical differential lock at front and rear	Hydromechanical differential lock at front and rear
Front Axle	Heavy-duty Duraxle™ balanced bogie axles	Heavy-duty Duraxle balanced bogie axles	Balanced bogie axles
Rear Axle	Rigid axle	Heavy-duty Duraxle balanced bogie axles	Rigid axle
ELECTRIC SYSTEM			
Voltage	24 V	24 V	24 V
Batteries	2 x 145 Ah	2 x 145 Ah	2 x 145 Ah
Alternator	150 A (28 V)	150 A (28 V)	150 A (28 V)
Lights	Halogen: 10 work lights, 4 boom lights, and 6 thinning lights	Halogen: 10 work lights, 4 boom lights, and 6 thinning lights	Halogen: 10 work lights, 4 boom lights, and 6 thinning lights
HYDRAULICS	Load-sensing, power-adjustable, double-pump system		Load-sensing, power-adjustable, double-pump system
Pump Capacities	190 cm^3 and 180 cm^3		210 cm^3 and 180 cm^3
Maximum Operating Pressure	28 MPa (4,060 psi)		28 MPa (4,060 psi)
Hydraulic Tank	300 L		300 L
BOOM	CH7		CH9
Maximum Reach Lengths	8.6/10.0/11.7 m		8.6/10.0/11.0 m
Gross Lifting Torque	197 kNm		225 kNm
Slewing Torque	50 kNm		59 kNm
Slewing Angle	220 deg		220 deg.
Tilt Angle, Forward/Back	+28 deg. / –15 deg.		+28 deg. / –18 deg.
CABIN	Leveling and rotating, or fixed cabin		Leveling and rotating, or fixed cabin
Rotating Angle	160 deg.		160 deg.
Sideways Tilt	17 deg.		17 deg.
Forward and Backward Tilt	9 deg.		9 deg.
MEASURING AND CONTROL SYSTEM	PC / Windows®-based TimberMatic H-12		PC / Windows®-based TimberMatic H-12
HARVESTER HEADS	H752HD, H754, H413, H414, H415, H270, and H480C		H270, H415, H480C, and H290

*Please note: Measurements are guidelines only and may vary depending on production tolerances. The manufacturer reserves the right to make changes. All product names featured in this brochure are registered trademarks of John Deere Forestry Oy.

MEASUREMENTS*	1270E IT4 6W	1270E IT4 8W	1470E IT4
Length [A]	7695 mm	7927 mm	7845 mm
Front Axle — Middle Joint [B]	2150 mm	2150 mm	2150 mm
Rear Axle — Middle Joint [C]	2050 mm	2280 mm	2050 mm
Wheelbase [B+C]	4200 mm	4430 mm	4200 mm
Tires, Front	26,5–20	26,5–20	26,5–20
Tires, Rear	34–14	26,5–20	34–16
Width — 600 Series Tires [D]	2750 mm	2750 mm	—
Width — 650 Series Tires [D]	—	—	2990 mm
Width — 710 Series Tires [D]	2960 mm	2960 mm	—
Width — 750 Series Tires [D]	—	—	2990 mm
Outer Turning Radius — 710 Tires	6675 mm	7105 mm	—
Outer Turning Radius — 750 Tires	—	—	6825 mm
Inner Turning Radius — 710 Tires	3805 mm	3990 mm	—
Inner Turning Radius — 750 Tires	—	—	3680 mm
Transport Height	3985 mm	3880 mm	3930 mm
Ground Clearance, Middle Joint [E]	640 mm	715 mm	750 mm
Minimium Machine Weight with H480C Harvester Head	20 500 kg	22 800 kg	21 700 kg

*Please note: Measurements are guidelines only and may vary depending on production tolerances.

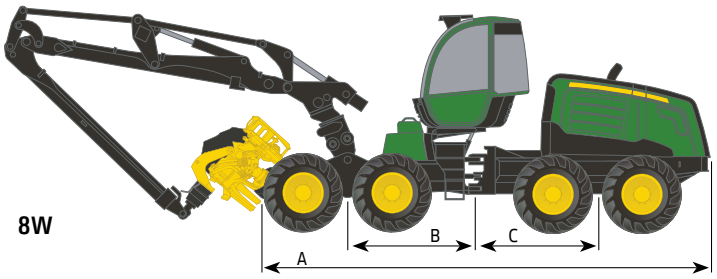
Examples of Standard Equipment*

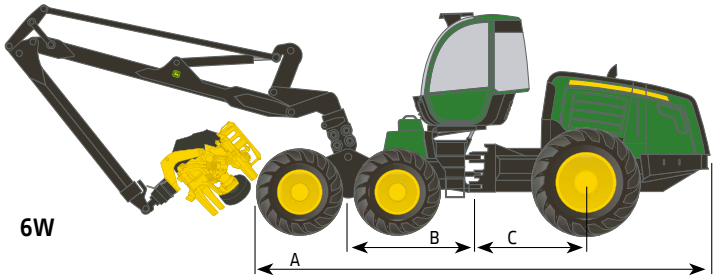
Leveling and rotating cabin
TimberMatic™ H-12 control system
Processing Power Control (PPC)
TimberLink™ overview window
JDLink™
Hydraulic reversing cooling fan
Hydraulic stairs
Air-suspension seat
Halogen lights
Heavy-duty Duraxle™ bogie axles
Frame brake
Engine air filter with pre cleaner element

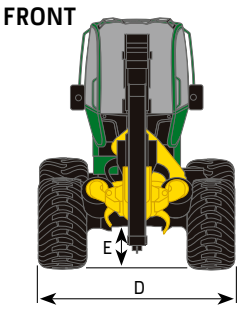
Examples of Optional Equipment*

Fixed cabin
GPS device and software
TimberLink™ software license
Configurable user interface
Reverse camera
LED lights
Preheater for engine and cabin
Electric fuel-refill pump
Electric hydraulics-refill pump
Biodegradeable hydraulic oil
Hydraulic vacuum pump
Hydraulic system bypass filter
Automatic fire-extinguishing system
Central greasing system
Tool kits
Tracks and chains

* Available in specific countries; see your dealer for details.







The leading provider of advanced harvesting solutions and services

Our ambition is to offer innovative solutions to make your work more productive, efficient, and easy. We are dedicated to being a long-term partner for our customers. Our wide distribution network offers professional support and services to customers worldwide.

Nothing runs like a Deere.

JOHN DEERE

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