

TIMBERJACK HARVESTER

**1270D**



**Timberjack**

A John Deere Company

# 1270D

## “You shouldn’t be humble when you’re so good”



The same goes for the Timberjack 1270 series of harvesters. With over 2000 units sold all over the world, it's hard to talk about these machines in anything but superlative terms. And it's even more difficult to find words to describe the fully modernized and improved 1270D - the newcomer that will soon be setting the pace everywhere.



### A new dimension for productivity



Like its predecessor, the new Timberjack 1270D is designed for selective thinning and regeneration harvesting. Fitted with a new John Deere engine, and with a choice of six robust harvester heads covering a wide application range, the 1270D is poised to boost efficiency and meet today's logging challenges better than ever before. Its completely remodeled chassis increases operator visibility and makes working in difficult conditions much less of a chore. As a result, the 1270D is the versatile choice for various applications.

### Reliability in motion

Reliability is one of the most important criteria when selecting a harvester. With high-quality components that excel in diverse applications, the 1270D is further proof of Timberjack's world-class reliability. Considerable effort has gone into enhancing serviceability with a new layout for both front and rear frames, allowing convenient access to all service points. The engine hood is divided into two sections and the front engine hood can be raised with an electrical spindle motor.



## True green machine

Like every Timberjack forest machine, the 1270D is not only productive and reliable but also an environmentally-sound solution. The unique balanced bogie, combined with the low center of gravity, advanced transmission control system and wide tires, provides excellent levels of tractive force and reduced ground impact. This ensures effortless movement in all conditions. The low-emission Deere engine conforms with the latest emission regulations in both Europe and North America. What's more, each machine can be supplied

## Partners for life

with a comprehensive environmental kit if required.

Timberjack is more than just advanced technology underpinned by over 50 years of experience. It is also a collection of people - over two thousand of them around the world - equipped with the necessary knowledge and commitment to make your professional logging business flourish. Our local dealers are familiar with your particular environment and are on hand to help you get the best out of your machine.

Together with first-class training, maintenance and spare part services, they ensure that your Timberjack forest machine remains productive and profitable years and years after delivery.

TAKE CONTROL

MAKE DECISIONS

BOOST PROFITS

THINK GREEN

**1270D**

**Enjoy the view**



### **The comforts of home**

**With Timberjack, you don't have to pay extra for a view. The 1270D harvester comes with enhanced visibility in all directions as standard. Thanks to our long experience in providing machines for professional logging, we understand the special requirements of your working environment.**

Your most precious production resource - your operators - need the best possible work environment to be able to exceed results year after year. Timberjack has maximized the benefits of its 1270D with an operator environment that is both functional and comfortable. The spacious cab has all the ergonomic innovations you have come to expect from Timberjack harvesters: an ergonomic seat, plus

easy-to-use joysticks and fingertip controls with the new Timbermatic™ 300 system. The cab is pre-heated, climate controlled, soundproofed and safe. Additional luxuries like a CD player and a take-away lunch box integrated into the cabin door bring the comforts of home to your workplace in the forest.



## Turning night into day

As a new option, the Timberjack 1270D also raises your on-site illumination to new heights with 14 Xenon lamps on the cab and two on the boom. Separate thinning lamps come as a further optional extra. The Xenon light differs from conventional light bulbs due to its daylight-like quality, which is particularly gentle on the human eye.

## A greater degree of freedom

A fully automatic leveling and turning cabin is available as an option for the 1270D. This system not only improves operator ergonomics but also reduces contact damage to residual trees during thinning.

The leveling and turning mechanism provides you with three new degrees of operating freedom: leveling/tilting sideways, leveling/tilting lengthways,

and rotation around the vertical axis. These modes are entirely independent and adjustable: they can all be used simultaneously, paired in any combination, or employed individually. As a result, the operator will reap all the benefits of an automatically turning cabin but without visibility disturbances or strokes caused by crane movements.

# 1270D

## Your office in the forest



Accuracy, speed and productivity are essential competitive factors in today's logging business. The new Timbermatic™ 300 control and measuring system gives you the tools to achieve your productivity goals, and much more besides. It also provides you with all the facilities of a modern office - right in the middle of the forest.

### Your decision-making tool

Order-based harvesting requires a control system with accurate measurement, computer connections and wireless data transfer. Timbermatic™ 300 is a measuring and control system which comes as standard in the 1270D harvester. This PC-based system neatly integrates the harvester-head measuring system with the TMC™ (Total Machine Control) functions.

The automatic measuring system expertly selects the optimum sawing point. This means operators don't have

to waste valuable time deciding where to cut the trunk, and can concentrate on monitoring the timber quality instead. A new feed control also optimizes the feeding power and ensures precise cutting, improving both length and diameter accuracy. As a new Timberjack option, the patented saw control system, FlashCut™ automatically ensures that the sawbar feeding keeps pace with the rotation speed of the saw motor. It keeps the chain speed at an optimal level



**1270D****High performance with value-added benefits**

The new and innovative features of the Timberjack 1270D will transform your production figures. This machine is geared up to give you more value-adding benefits than any other harvester of comparable size.

### Production figures to reckon with

A new electrically-controlled, common-rail fuel-injected John Deere diesel engine supplies the 1270D with the same superior power output, but with a torque increase of 25% compared to previous models. The high torque output enables simultaneous use of the harvester head motors and the boom, maximizing your harvesting efficiency. The 1100 Nm torque also allows the harvester to operate at lower rpm, which results in improved fuel

**1100 Nm**

economy, increased component life and reduced noise level. Last but not least, service intervals for essentials like engine oil and filter change have been extended from 250 hours to 500 hours.

**24/28 MPa**

The 1270D's hydraulic system with unique 24/28 MPa dual working pressure system generates higher hydraulic oil flow for improved function speeds. This secures peak performance in



**758**



**H762**



**H754**

## The right head for the job

The wide selection of harvester heads makes your 1270D suitable for many kinds of applications.

Timberjack is the world-class name for high-quality and heavy-duty harvester heads. Their superlative performance and durability has been demonstrated

in all kinds of work applications all over the world for years. The new 1270D comes equipped with one of six alternatives according to your specific requirements.

The robust **H762** and **762C** as well as the **758** are designed for regeneration harvesting and the **H754**, **745** and **H752HD** for later thinnings. Thanks to the 4-wheel drive and short frame construction the 758, H754 and 745 are well suited for bent timber and strong branches. The H762 and H752HD have the Supercut™ saw unit with integrated chain lubrication and tensioning as standard. On the 4-wheel drive heads the Supercut™ is an optional feature.

situations where greater power is required at brief intervals, such as sawing or at the start of feeding. The higher pressure delivers more power to the feeding process and helps avoid cutting cracks and slipping - an advantage that has a direct impact on production quality.

### 11.8-meter boom reach

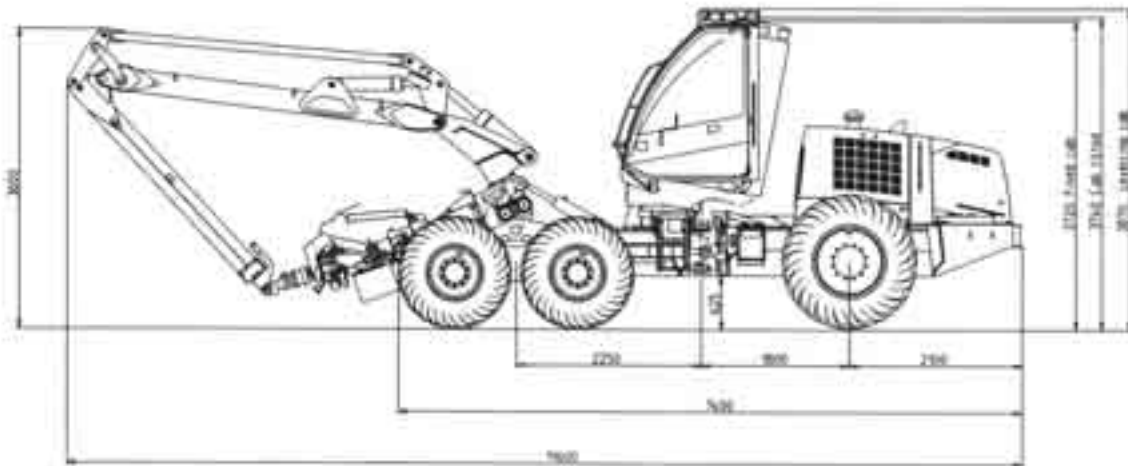
In addition to the 9.3 and 10-meter booms, the Timberjack 1270D facilitates an 11.8-meter-reach,

double-extension boom specially designed for thinning tasks. The wider boom reach speeds up the harvesting process, which improves the work efficiency of your entire production chain. The 11.8 boom is available with the 745 and H754 harvester heads. In addition to the reach, the automatic boom pillar leveling system contributes to better productivity.

TAKE CONTROL • MAKE DECISIONS •

Technology that beats the rest

<p><b>Dimensions</b></p> <p>Length 7400 mm                  Width (600 tires) 2740 mm                  (700 tires) 2860 mm                  Height 3700 mm                  (3870 mm with leveling cabin)                  Transportation height 3700 mm                  (3740 mm with leveling cabin, tilted)                  Ground clearance 625 mm                  Note! Measurements are nominal and may vary due to tire manufacturing tolerances.</p> <p><b>Weight</b></p> <p>Depending on equipment, min. 17500 kg</p> <p><b>Engine</b></p> <p>John Deere JD6081 HTJ 03 diesel engine                  Cylinder volume 8.1 liters                  Power output 160 kW / 1400-2000 rpm                  Torque 1100 Nm / 1400 rpm                  Fuel tank 480 liters                  Viscous fan drive</p>	<p><b>Transmission</b></p> <p>Hydrostatic-mechanical                  Two-speed gearbox                  Speed 0-24km/h                  Tractive force 160 Nm</p> <p><b>Steering</b></p> <p>Articulated frame steering                  Steering angle <math>\pm 42^\circ</math>                  Electrical proportional off-road steering</p> <p><b>Brakes</b></p> <p>Service and working brakes are hydraulically actuated, oil immersed multiple disc brakes. Spring actuated parking and emergency brakes.</p> <p><b>Axles</b></p> <p>Front: Bogie axle with electro-hydraulic differential lock                  Rear: Single rigid axle with electro-hydraulic differential lock</p> <p><b>Electrical system</b></p> <p>Voltage 24 V                  Batteries 2 x 140 Ah                  Alternator 140 A                  Working lights: 14 Twin power and 4 single lamps on the boom.                  30 lux in the working area of the boom.</p>	<p><b>Hydraulic System</b></p> <p>Load-sensing system                  Pump displacement 190 cm<sup>3</sup>/r                  Flow 304 l/1600 rpm                  Working pressure 24/28 MPa                  Control system Timbermatic™ 300                  Hydraulic oil system capacity ~300 l</p> <p><b>Tires</b></p> <p>Front: 600x26,5 or 700x26,5                  Rear: 600x34 or 700x34</p> <p><b>Boom</b></p> <p>Parallel motion knuckle boom TJ 210 H 90, 97 or 115                  Reach with head 9.3 m, 10 m or 11.8m                  Gross lifting torque 178 kNm                  Gross slewing torque 43.6 kNm                  Tilt angle 25° forward, 13° backward                  Slewing angle 220°</p>
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## BOOST PROFITS • THINK GREEN

### Cab

Spacious, well-lit and comfortable cab with an ergonomic seat and low-effort mini-grip controls. Efficient heating and air conditioning. Excellent visibility on all sides and up to the tree tops. Noise level meets ISO standards. Radio/cassette player. Light green polycarbonate windows. Safety tested according to ISO standards.

### Timberjack cab-leveling option

The tilting cab is mounted on a leveling platform on the front frame that provides for three degrees of freedom. Tilting sideways 15°, forward and backward 11°. Turning +/- 50°. Tilting functions are independent, and can be controlled individually or in combination.

The leveling and turning can be actuated automatically or manually.

### Measuring system

Timbermatic™ 300, PC/Windows® based measuring and control system integrates harvester head measuring and control system with TMC™ base machine control system

- Modular based CAN-bus reduces the amount cabling needed, ensuring accuracy and reliability
- Easy to use, information is displayed

on large color display with clear and user friendly icons and two-level menus, keyboard with integrated mouse

- Highly automated harvester head control software, including e.g. automatic controls for sawing, harvester head tilt-up, pressure adjustments of the delimiting knives and feed rollers, stem feed, color marking and stump treatment
- Compact and efficient design of the push buttons, joysticks and keyboard for excellent ergonomics
- Easy calibration of length and diameter measuring system
- Full tree prediction, price and/or distribution and/or limitations –based optimization, unlimited number of sites
- A4 color printer for printing maps, production reports, work and repair statistics, production instructions, calibration history, stem data, log table, machine parameters
- User friendly interface, help and trouble shooting
- CD-ROM, floppy disc and USB port for data transfer
- E-mail software installed
- SilviA program

- Software for optional electronic caliper
- Easy to install and update softwares

### Optional equipment

- Leveling and turning cabin
- CD-changer
- Xenon working lights
- Thinning lights
- Sun blinds
- Preheater for cabin, engine and hydraulic oil tank
- Refill pump for fuel
- Refill pump for hydraulic oil
- Vacuum pump for hydraulics
- Hydraulic oil off-line fine filter
- Chains, tracks
- Spare wheel
- Electronic calipers
- Colour marking system
- Stump treatment device
- Automatic boom leveling
- FlashCut™ saw control system
- Environmental kit

Note! Standard and optional equipment may vary. For details contact your local dealer.

## Timberjack harvester heads

Model	H752HD	762C	H762	745	H754	758
Max opening upper knives, mm	520	550	770	560	560	680
Max opening feed rollers, mm	500	606	620	560	560	700
Delimiting diameter tip to tip, mm	400	430	480	400	400	480
Max cutting diameter, mm	570	650	650	550	550 / 620	650
Weight, incl. rotator and link, kg	960-1020	1270-1350	1215-1275	820-850	880-930	1080-1150
Feed force at 24 MPa gross, kN*)	18.2-24.4	23.4-28.0	25.1-33.8	16.0-25.2	16.0-25.2	22.0-27.0
Feed rollers, pcs	2	2	2	4	4	4
Feed speed, m/s	0-4.9	0-4.5	0-5	0-5	0-5	0-4.7
Chain speed, m/s	40	40	40	40	40	40
Operating pressure max, MPa	24 / 28	24 / 28	24 / 28	24	24 / 28	24 / 28
Saw bar, cm	75	75/80	82.5	64	64 / 75	75
Max reach with the TJ 210 H boom, m	10	9.3	10	11.8	11.8	10

\*) Depends on feed motor size

The manufacturer reserves the right to make changes or add improvements without incurring any obligation to make such changes on machines manufactured previously.

## TAKE CONTROL

Timberjack is no ordinary harvester. It is the right and "bright" partner that makes you – the operator – a better professional in forest operations. When you invest in Timberjack, you are not only getting a robust high-production machine but also a complete package of forest management capabilities.

## MAKE DECISIONS

The state-of-the-art control system automatically performs all instructed travel and work functions with incredible speed and precision. The entire tree-processing cycle is automated at the touch of a button. This gives you more time to make spot-on judgements when selecting the next tree in the thinning process, for instance.

## BOOST PROFITS

Ensuring high output in various harvesting applications, Timberjack delivers optimum results whatever the task. It gives you the freedom to move from one job to the next without missing a beat. Geared up for outstanding performance, Timberjack is your razor-sharp business partner.

## THINK GREEN

You can always depend on Timberjack for an environmentally-sound solution. It's your strongest ally when it comes to sustaining both a healthy residual forest and a reputation for responsible forest stewardship.

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