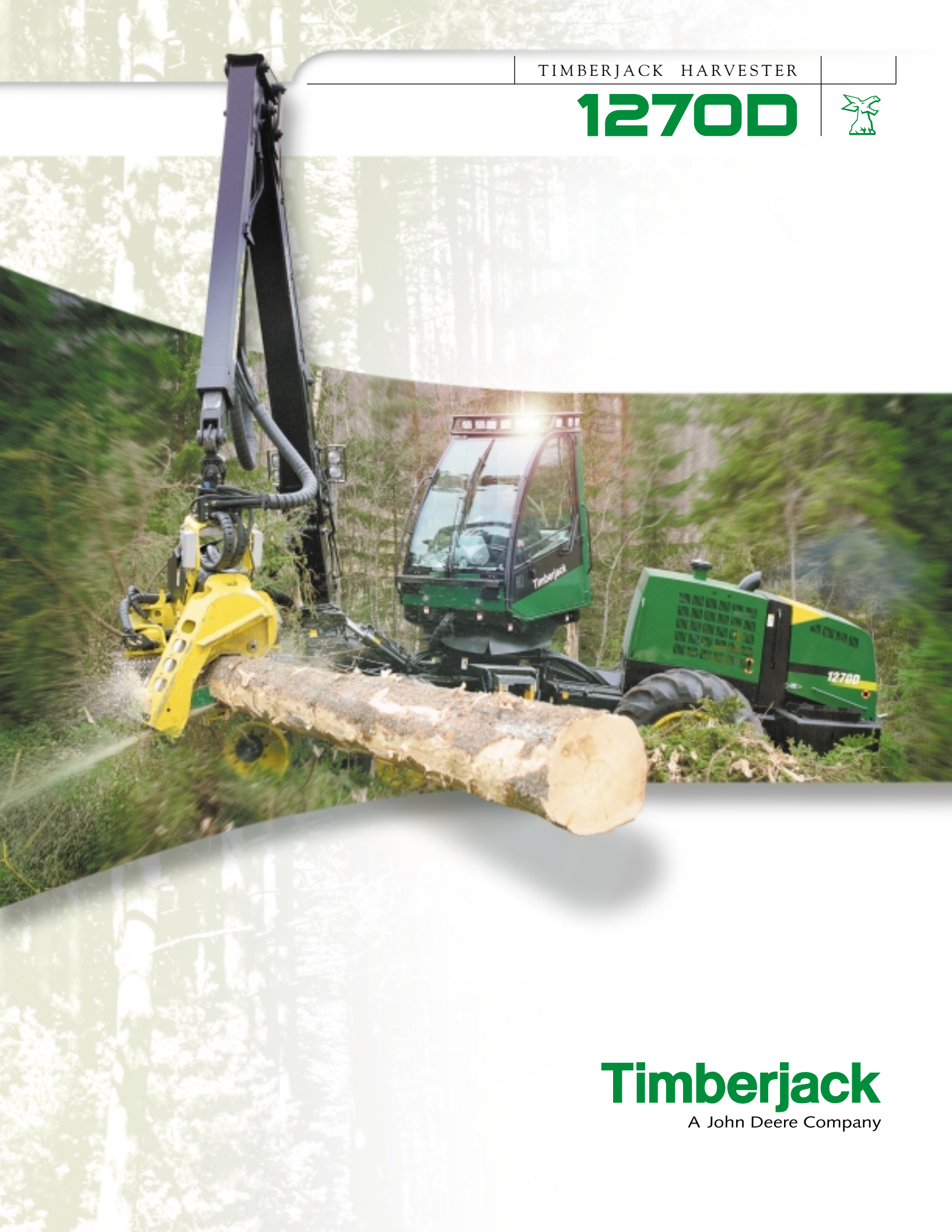


TIMBERJACK HARVESTER

**12700**



**Timberjack**

A John Deere Company

# 1270D

## Takes harvesting up to the next level

How do you improve on a harvester that's working reliably in over 1,600 systems around the world? No easy task. But, we needed a new engine to meet new emission standards. John Deere answered that with the 6081H, an engine that gives the 1270D a lot more power on demand. That led to other enhancements – and to the fastest, most productive harvester in late thinnings and regeneration harvesting.



### More power, more speed, more wood

**Best-in-Class.** The 1270D earns that label with a new John Deere high torque rise engine for the power you need, when you need it. At lower rpms, too, so you use less fuel, run quieter and extend component life. A new hydraulic system matches the engine output with higher flow rates. You'll see the fastest-ever felling and processing, automatically controlled by the easy-to-use Timbermatic 300 centralized digital control system.

The redesigned rear section is narrower, improving rear visibility and creating more space for ground-level servicing. Stronger, high-walker axles and unique balanced gear bogies give high-and-wide ground clearance and a smooth, stable ride. A new leveling and rotating cab option makes it easy to choose the best work position. Overall reliability? We didn't have to touch a thing.



What's  
new



*Look nowhere else. You've found the high-production harvester that leads the industry –*

In technology.

In up-time.

In care of the forest.



**1270D****New heart, new nerve system -  
and a new outlook**

A new engine at the heart of the machine, a new centralized control system that simplifies the operator's job, and a new cab tilt / rotate option that puts the operator always in the best position – these new features keep the 1270D ahead of anything in its class.

**New high torque,  
low rpm engine**

The Deere 6081H is everything you could ask for in an engine. Besides meeting new emission standards, it gives you a controlled power bulge for negotiating travel obstacles, and for felling, feeding and crosscutting. Torque is a full 26% higher than before. What's amazing is that it works at much lower rpms, so it runs quieter well within its rated capacity, saves fuel, and endures over a longer lifespan.

What makes this engine great? It's the High Pressure Common Rail (HPCR) fuel system with air-to-air aspiration, fed by the John Deere Electronic Control (JDEC) system that responds to demand with variable injection pressure and variable timing. In turn, fluctuating power demand is set by the Timberjack Total Machine Control (TMC®) system. Put these systems together and you get the power you need, only when needed.



## All-in-one digitized control

Timbermatic 300 is a new easy-to-use PC-based system that combines processing measurement and control with TMC control of basic machine functions, all in one large display unit. With only two levels in the menu, basics are quickly learned. The more the operator gets to know the system, the easier it is to customize settings and take advantage of the many time-saving features. Production goes up while effort goes down.

Every routine function is fully automated: machine travel speed and braking, boom speed and feel, sawblade and head tilt control, processing speed and accuracy. You get the best possible yield from each stem. Provision is made for automatic stump treatment, color marking and electronic calipers. You can also select semi-automatic or manual settings. E-mail and GPS capabilities let the mill change prescription directly and keep the contractor informed with location and production data.

## Tilt and turn cab flexibility

This unique option lets you position the cab exactly where you want for the most comfort and best sight lines. The tilt feature levels the cab on uneven or sloping ground. It makes life easier for the operator, and avoids the risk of rubbing a leave tree with the cab corner. The cab rotates separately from the boom, so you can turn the cab to a different angle to give an unlimited view over the entire work area. Tilt and leveling can be automatic or manual.

# 1270D

## Doesn't waste a move



### Quick start

### Fast, clean processing

The less motion the better. The 1270D exhibits true economy of movement because all systems and components work together in a fluid process from one tree to the next. This is a machine your operator will be proud to drive and to keep in tiptop running order.

There's nothing hit or miss about the parallel motion boom. The head runs true in a straight line directly to the tree. The telescopic boom is stronger with more lift capacity than before. It comes in 32.8-ft (10,0 m) or 30.5-ft (9,3 m) reach, and can be adjusted by the operator for speed and feel to match individual skill levels. On uneven ground, the automatic boom base leveling option makes everything easier.

You have a choice of two harvester heads, both matched to the 1270D's higher flow hydraulics for fast felling and processing. The best-selling Timberjack 762C harvester head, a proven choice for all-round applications, comes standard. The optional 758 head has four feed rollers with four hydraulically connected motors to handle heavily limbed trees. Both heads are rated at 25.6-in (65 cm) cutting capacity.



## Go-anywhere mobility



New high-walker axles, proven on larger Timberjack forwarders, are stronger with more ground clearance. The unique balanced bogies distribute weight between the front and rear wheels, maintaining weight on both wheels in extreme positions. You get the best possible traction and stability, with lower ground pressures over uneven ground. Inside-the-rim axle mounting increases the width of clearance, making travel easier and helping avoid hang-ups.



## Ground-level servicing



More space between the rear compartment and the tires makes it easier to service all major components from ground level. The only climbing needed is to reach the boom grease lines at the mast. Everything else, engine, pumps, filters, radiator and oil cooler, electrical panel, Timbermatic 300 components, and boom control valve are readily accessible. The bellypan is raised by a winch. The fuel tank is handy, too, located in the rear bumper.

## A cab for all seasons

It doesn't get any better than this. Total climate-controlled comfort, lots of room, low-effort mini-lever controls at your fingertips, radio, cassette or optional CD player, and extremely quiet at only 70 dB(A) – the 1270D continues the Timberjack tradition of leadership in harvester ergonomics. And what a view. Front-frame cab mount and big windows give unrivalled sight lines in all directions. After dark, a brilliant 2,240 watts turn night into day.

**Engine**

Type ..... John Deere 6081 H TJ 03, charge air cooled, turbocharged, isolation-mounted diesel with TMC®

Rated power ..... 215 SAE gross hp *160 kW* @ 1,400 – 2,000 rpm

Cylinders ..... 6

Displacement ..... 494 cu in *8,1 litres*

Maximum net torque ..... 811 lb-ft *1 100 Nm* @ 1,400 rpm

Air cleaner ..... two stage with safety element and dust unloader valve

Cooling system ... heavy-duty radiator with coolant level indicator and coolant recovery reservoir, oil to water engine cooler

Cooling fan ..... suction-type, with viscous fan clutch, enclosed with guard

Service interval for engine oil and filter is 500 hours

Oil drain hose for spill-free oil changes

Antifreeze ..... -34°F -37°C

Fuel system ..... dual-stage quick release fuel filters, fuel water separator, electric fuel shutoff with start switch key, in-line injection pump

**Electrical**

Type ..... 24 volt with 140-amp alternator

Batteries ..... heavy duty, low maintenance, 1,200 cold cranking amps (two 12 volt) 140 Ah, battery disconnect with main switch

Work lights ..... 14 high intensity Halogen style Twin-Power (2 x 70 watt) work lights, and 4 x 70 watt boom lights = 2,240 watts in the working area

**Transmission**

Type ..... hydrostatic mechanical with protected electric/hydraulic range shift of two-speed gear box and TMC. Off-road driving with smooth no-surge starts, without dropping engine speed

Travel speeds, forward and reverse

High ..... 0–15.5 mph *0–25 km/h*

Low ..... 0–3.1 mph *0–5 km/h*

Maximum tractive effort ..... 35,970 lb-ft *160 kN*

**Axles**

Type ..... High-walker, cast, patented, balanced gear bogie axle with portal-type bogie beams in front; rigid single axle in rear

Final drives ..... heavy-duty planetary, mounted outboard

Differentials ..... hypoid-type hydraulically operated mechanical differential lock front and rear

**Brakes**

Service brakes .... hydraulically activated, oil immersed, multiple disc, inboard

Parking brakes ... automatically spring applied, hydraulically released, oil immersed, inboard

Frame oscillation brake on the rear frame, automatic

**Steering**

Type ..... articulated frame steering with two hydraulic cylinders

Frame articulation ..... ± 42 degrees, stop to stop

Lever Steering ... proportional, electrical mini-joystick over hydraulics, armrest mounted

**Hydraulic System**

Type ..... load sensing, electronic pressure and flow controlled, with low-effort mini-joysticks, and TMC, vacuum pump for the hydraulic system, electrical

Working hydraulics ..... variable-displacement pump

Rated flow ..... 80 US gpm *304 L/min.* @ 1,600 rpm

Pressure ..... 4060 psi *28 MPa* for saw and feed start only, 3,480 psi *24 MPa* for all other functions

Powertrain hydraulics ..... variable-displacement pump/motor

Rated flow ..... 50 US gpm *190 L/min.* @ 1,500 rpm

Fluid ..... heavy duty oil cooler, side by side with radiator, oil filter, return, 10 micron with bypass, quick-disconnect diagnostic ports, refill pump, electrical





**Timberjack 1270D Harvester**

**Capacities**

Fuel reservoir ..... 127 US gal *480 litres* located in the rear bumper  
 Cooling system ... 10.6 US gal *40 litres*  
 Hydraulic oil system ..... 50 US gal *190 litres*

**Tires**

Front  
 Standard ..... 700 x 26.5 16 PR ELS NK  
 Optional ..... 600 x 26.5 16 PR ELS NK  
 Rear  
 Standard ..... 700 x 34 14 PR TRS NK  
 Optional ..... 600 x 34 14 PR TRS NK

**Ground Pressure**

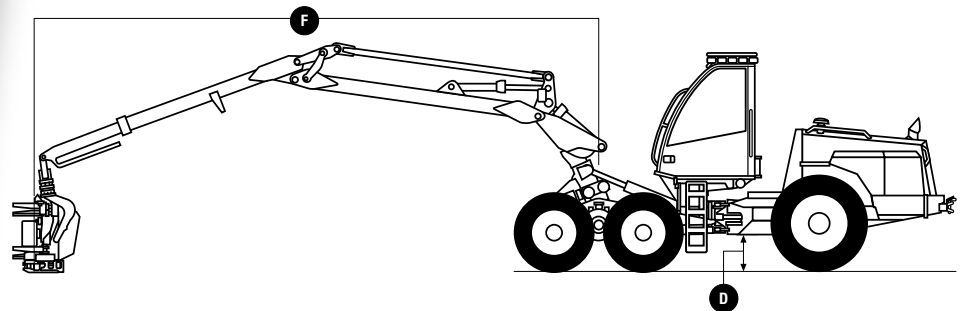
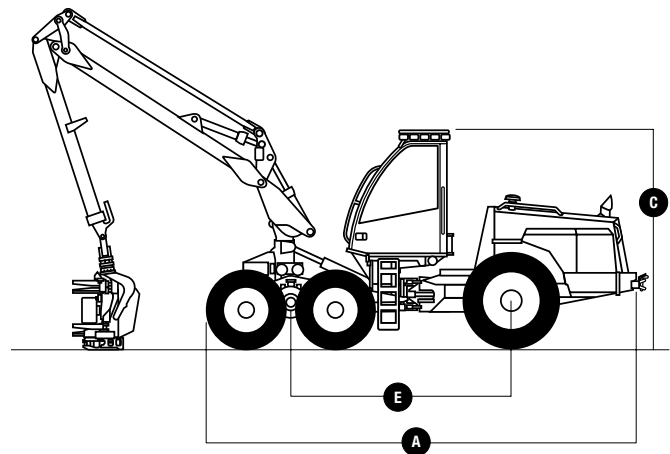
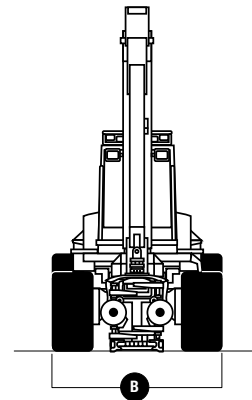
700 x 26.5 front .. 8.4 psi *58 kPa*  
 700 x 34 rear ..... 7.1 psi *49 kPa*  
 Front with bogie tracks ... 6.8 psi *47 kPa*  
 600 x 26.5 front .. 9.6 psi *66 kPa*  
 600 x 34 rear ..... 9.1 psi *63 kPa*  
 Front with bogie tracks ... 7.7 psi *53 kPa*

**Operating Weight**

Standard (minimum depending on equipment) .... 38,580 lb *17 500 kg*

**Dimensions**

- A** Length ..... 24-ft 7,4 m
- B** Width  
 700 x 26.5 standard tires ..... 9-ft 7-in *2,93 m*  
 600 x 26.5 optional tires ..... 9-ft 2,74 m
- C** Transport height ..... 12-ft 2-in *3,72 m*
- D** Ground clearance ..... 24.6-in *62,5 cm*
- E** Wheelbase .... 12-ft 1-in *3,7 m*
- F** Reach ..... 30-ft 6-in *9,3 m*  
 Optional ..... 32-ft 10-in *10,0 m*



**Boom**

Type ..... Timberjack 210H parallel motion with telescopic outer boom

Gross lifting torque..... 131,285 lb-ft *178 kNm*

Gross swing torque..... 32,160 lb-ft *43,6 kNm*

Maximum reach 30-ft 6-in *9,3 m*  
 Optional reach 32-ft 10-in *10,0 m*

Tilt boom base .... -15/+30 degrees

Swing angle ..... 220 degrees

Rotator ..... AV 12S, Optional AV 14S

Link ..... double dampened

Dedicated boom lubrication system

Guarding ..... for boom hydraulic valve

**Timberjack 762C Harvester Head**

Maximum cutting diameter ..... 25.6-in *65 cm*

Weight (includes rotator and link) ..... 2,968 lb *1 350 kg*

Feed Motors (2)	Feed Force		Feed Speed	
	lbf	kN	ft/sec	m/sec
Standard	5,265	23,4	14.8	4,5
Optional	5,783	25,7	14.0	4,3
Optional	6,300	28,0	13.1	4,0

Feed Rollers (2) .. Rubber, with chains or optional steel thumb nail

Maximum reach with 762C head ..... 30-ft 6-in *9,3 m*

**Timberjack 758 Harvester Head - Optional (4-wheel drive)**

Maximum cutting diameter ..... 25.6-in *65 cm*

Weight (includes rotator and link) ..... 2,381 – 2,535 lb *1080 – 1150 kg*

Feed Motors (4)	Feed Force		Feed Speed	
	lbf	kN	ft/sec	m/sec
Standard	4,950	22,0	15.4	4,7
Optional	6,075	27,0	13.8	4,2

Feed Rollers (4) synchronized

Fixed (2) ..... Steel thumb-nail

Moveable (2) .. Steel thumb-nail

Optional ..... Accumulator arms and rollers for multi tree handling

Maximum reach with 758 head ..... 32-ft 10-in *10,0 m*

**Total Machine Control System (TMC)**

Integrated into the Timbermatic 300

Controls engine, transmission and boom

Driver-specific parameters for seven operator and two factory settings

Operator chooses speed and sensitivity of functions to personal preference

Gauge and indicator light information displayed on the T 300 graphic screen: engine coolant temperature, hydraulic oil temperature, voltage, etc. Monitoring and visual and audible alarm system with a built-in preventative maintenance program to reduce downtime

**Timbermatic 300**

Centralized digital control system for the harvester head, timber measurement and base machine control

PC/Windows™ 2000 based with keyboard and track-ball mouse

Integrates the harvester head measuring and control system with TMC in one large monitor mounted directly in front of the operator

Logical and easy to use, quick switching between menu choices with only two menu levels

Highly automated harvester head control including saw bar control, automatic pressure adjustment of delimiting knives and harvester head tilt-up

Fault-finding function

Memory card for transferring data, including production data and machine settings (PCMCIA card)

Control for color marking and stump treatment, value and priority based optimization, operation and service follow-up program

Versatile data-transfer and electronic-caliper options available

Screen resolution 600 x 800

Hard disc 4.1 GB

RAM 192 MB

2 x RS-232 ports

Parallel port

USB port

CD-ROM drive

Floppy disc drive

4 PCMCIA card ports

Color on-board printer for production and performance reports



**Operator's Station**

Air conditioner (R134A refrigerant) and heater, with filters  
 AM-FM stereo radio/cassette with two (2) remote mounted speakers  
 Cab with integral forestry guarding, FOPS, OPS, and ROPS protective structure  
 Secondary exit, right side door  
 Third exit, rear window  
 Tinted polycarbonate windows  
 Storage compartment with spare parts catalog and operator's manual  
 Windshield wiper/washer, front window  
 Sun blinds, all windows  
 Fire extinguisher, 10 lb. 5 kg  
 Floor mat  
 Coat hook  
 Horn  
 Interior light  
 Lunch box with thermos  
 Seat, fabric covered, heated, air suspension, with: lumbar adjustment / weight adjustment / seat arm-rest height adjustment / high back / seat backrest angle adjustment. Seat belt, 2-in 51 mm wide with retractor (conforms to SAE J386)  
 Saw bar storage compartment under floor mat

**Standard Features** (continued)

Fire extinguisher, 10 lb. 5 kg  
 Hydraulically actuated steps  
 Hand grips  
 Separate, quick installation, ladder for access to service points  
 Vacuum pump for the hydraulic system, electrical  
 Refill pump for hydraulic fluid, electrical  
 Quick coupling for fuel refilling  
 Heavy-duty engine hoods  
 Back-up alarm  
 Frame oscillation brake  
 Articulation lock bar and pins  
 Tow pin  
 Under cab toolbox with tool kit  
 Storage box below the boom base  
 Spare parts catalogue  
 Operator's manual

**Cab leveling/rotation option**

Cab is mounted on a leveling and rotating platform on the front frame that provides for three dimensions of freedom  
 Tilt each side ..... 15 degrees  
 Tilt forward/back .. 11 degrees  
 Rotation ..... ±50 degrees  
 Tilt functions independent, controlled individually or in combination  
 Leveling and rotation automatic or manual  
 Cab rotates automatically or separately with the boom, provides maximum visibility in all directions

**Optional Equipment**

Nokian 600 mm tires (6), in lieu of 700 mm  
 Leveling and rotating cab  
 Xenon working lights (14) in lieu of Twin-Power lights  
 Four (4) cab mounted, conventional or Xenon thinning lights  
 Washer and wipers for side windows  
 Washer and wiper for rear window  
 CD exchanger with 5 CD capacity  
 Environmental spill kit  
 Steel feed rollers (2) for TJ 762C Head  
 Timberjack 758 Harvesting head (4x4) with steel feed rollers  
 Debarking rollers (4), steel, upper and lower, for TJ 758 Head  
 Timberjack 210H parallel motion boom with 32-ft 10-in 10,0 m reach  
 Extra storage boxes (2) beside the boom base  
 Automatic leveling of the boom mast base  
 Harvester head color marking system (two colors)  
 Harvester head stump-treatment system  
 Electronic calipers  
 Extra PCMCIA card for TM 300 data  
 Fuel refill pump, electrical  
 Extra, cyclone type, pre-cleaner for engine air intake  
 EcoTrack bogie tracks and tire chains, consult your Dealer  
 Spare wheel assemblies  
 French decals and Operator's and spare parts manuals

**Standard Features**

Timbermatic 300 Measuring and Control system with integral TMC (Total Machine Control) system, color printer  
 Timberjack 762C Harvester Head with rubber feed rollers  
 Timberjack 210H parallel motion boom with 30-ft 6-in 9,3 m reach  
 Fixed cab  
 14 Twin-Power work lights and 4 boom lights  
 Preheater, 10 kW, for engine, cab and hydraulic reservoir  
 700 mm tires

## Control Owning and Operating Costs

**Customer Personal Service (CPS)** is part of Timberjack's fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of on going programs and services are:

**Extended Coverage** – gives you a fixed cost for maintaining a machine for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an Extended Coverage contract also travels well because it's backed by Timberjack and is honored by all Timberjack dealers.

**Planned Maintenance agreements** – give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

**Fluid Analysis** – tells you what's going on inside all of your machine's major components so you'll know if there's a problem before you see a decline in performance. Fluid analysis is included in most Extended Coverage warranty and preventive-maintenance agreements.

**Finance Programs** – Credit has a full menu of customized business solutions to meet all your cash flow needs, including PowerPlan®, the revolving charge account that's ideal for handling your month-in and month-out expenses. Skip payments are available to accommodate seasonal cash flows.

**Component life-cycle analysis** – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

**Certified Customer Support** – Customer Support Advisors and Service Technicians are certified to have the knowledge and skills to help make important decisions on machine maintenance and repair. They understand the Customer Personal Service program inside and out, and will help you customize a plan that meets your specific needs.

The manufacturer reserves the right to make changes or add improvements at any time without incurring any obligation to make such changes on machines manufactured previously.  
E. & O.E. 5.5M

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