

Timberjack

**770**

Harvester

**NEW!**



## The right tool for the job

- Purpose designed for thinnings
- Unequaled work environment
- Agile with impressive tractive force
- Built to last and easy to service
- New versatile head

**Timberjack**



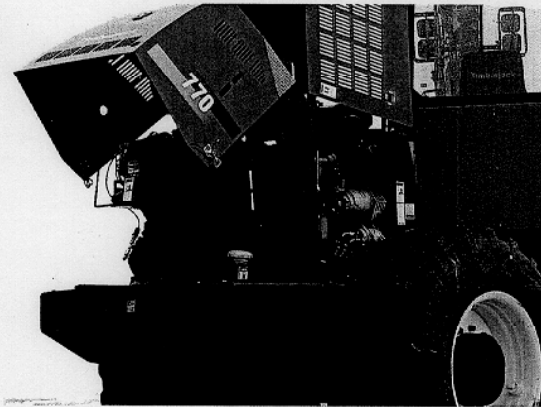
# Built without compromise

## Purpose designed for thinnings

The Timberjack 770 harvester is specifically designed for thinning and the final harvesting of small diameter wood. Like its bigger brothers the 870B and 1270B, the new 770 is built from the ground up to be a productive, reliable and environmentally sound forest machine. The Timberjack 770 also incorporates a variety of impressive features not normally found in this size harvester.

## Unequaled work environment

Immediately apparent is the same spacious operator's cab previously seen on the much larger 1270B. Thinning is the most demanding of all harvesting applications with the operator having to concentrate on several things; tree selection, ensuring other trees remain undamaged and processing the



All hoods and covers open easily to give fast access to service points.

stems effectively. To achieve the highest levels of productivity the quality of the operator's work environment is therefore crucial. Inside, the 770's cab is superbly equipped, offering an ergonomic seat and low-effort mini-grip controls, climate control, radio and soundproofing. The cab's unique design-right patented shape allows for unrivaled visibility on all four sides, even up to the tree tops. All the covers and hoods have also been designed to provide the operator with good visibility to each corner of the machine. In addition 16 twin power lamps provide excellent worksite illumination in poor light or after dark. Importantly the cab meets all forest machine safety standards and regulations.

## Agile with impressive tractive force

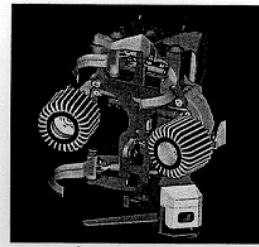
With only 4 wheels and carefully selected tires, the 770 is far more agile than 6 or 8 wheel machines, while providing similar high levels of tractive effort. In addition the 770's robust construction and well distributed machine weight ensure that it is highly stable. The 770 can be equipped with a variety of tire alternatives for different machine widths to suit various thinning applications.

## Built to last and easy to service

As well as the cab, the 770 shares many design details with larger Timberjack harvesters including the construction principle of the frames already well proven in over 1000 Timberjack 1270 harvesters. In addition the 770 features the well known Timberjack TMC™ (Total Machine Control) system, the

Timberjack 3000 measuring and control system and the standardized electrical system found on all new generation Timberjack forest machines.

New for the 770 is the 4BTA3.9-C110 Cummins engine which generates an impressive power output of 82kW and 445Nm of torque at 1500rpm. The 770 also features the strong Timberjack 140 H 76 parallel acting crane based on the same design principle as Timberjack's H170 and H200 cranes. The well protected hydraulic hoses including the crane's hydraulic return line are oversized to reduce hydraulic loss. To partner the new crane the 770 has a remarkable new harvester head.



The compact 742 harvester head is purpose designed for thinnings. With an excellent power to weight ratio and a felling diameter of 47cm it also has the flexibility to cut larger wood when required.

## New versatile head

The narrow Timberjack 742 head, specifically designed for the 770 harvester, has a felling diameter of 47 cm and an outstanding power to weight ratio giving it all the flexibility and ease of operation required for highly productive thinnings. Its new shape delimiting knives, 3 moving and 1 floating, ensure excellent delimiting quality and quantity. In addition, the raw material used for the delimiting knives has been changed to further improve durability. An integrated automatic chain lubrication and tensioning system improves sawing performance while reducing maintenance time. The 742 also features a new type of radial piston feed roller motor which provides excellent feed force when it's needed most, at the beginning of the feed. It is also equipped with an idler wheel to reduce friction between the stem and the head which results in better net feeding force. The 742 can also be equipped with a radical new 3 color marking system that provides improved accuracy and reduced dye consumption.

The Timberjack 770 harvester introduces a new dimension of productivity and reliability to thinning and the final harvesting of small diameter wood. Working together with the Timberjack 810B forwarder, it is an unbeatable system.



The construction principal of the frame is based on that of the well proven and much larger 1270B.

## Technical data

### Dimensions

Length 5878 mm  
Width 2300 mm (600 tires)  
Width 2400 mm (650 tires)  
Height 3616 mm  
Ground clearance 570 mm

### Weight

Total 10600 kg

### Engine

Power output 82 kW/ 2200 rpm  
Torque 445 Nm / 1500 rpm  
Type Cummins 4BTA3.9-C110  
Fuel tank 250 l

### Transmission

Hydrostatic-mechanical  
P 75 cm / M 107 cm  
Two-speed gearbox  
Speed 0-25 km/h  
Tractive force max 100 kN  
Control system TMC

### Steering

Articulated frame steering  
Steering angle ±40°  
Electrical proportional off road steering.  
Hydraulic on road steering

### Brakes

Service and working brakes are hydraulically actuated, oil immersed multiple disc brakes. Spring actuated parking and emergency brakes

### Axles

Front: Single rigid axle with electro-hydraulic differential lock  
Rear: Single rigid axle with electro-hydraulic differential lock

### Hydraulic system

Load-sensing  
Pump capacity 216 l/1800 rpm  
Working pressure 240 bar  
Control system TMC  
Hydraulic tank 170 l

### Electrical system

Voltage 24 V Batteries 2x115 Ah  
Alternator 140A

### Working lights

30 lux in the working area of the crane

### Tires

Front: 650x26,5/12 ELS-L-2  
600x30,5/12 T421  
Rear: 650x26,5/12 ELS-L-2  
600x30,5/12 T421

### Crane

Parallel motion knuckle boom  
TJ 140 H76  
Reach 7,6  
Gross lifting torque 95 kNm  
Gross slewing torque 24 kNm  
Tilt angle ± 15°  
Slewing angle 220°

### Cab

Safety tested according to ISO and BS standards

### Harvester head

Timberjack 742

### Measuring system

Timberjack 3000