



Tractor processor
NIAB 5-15



Your Efficient Forestry Partner

The NIAB 5-15 tractor processor is an extremely versatile appliance and all foresters will appreciate its potential. It improves capacity and boosts forest output by minimizing the area lost to strip roads. It will also handle the heaviest and most dangerous operations at very reasonable investment cost.

After the trees have been felled manually, the processor winch simply hauls them in. The processor is then used for handling, limbing, bucking, and sorting the timber into different piles. NIAB is simple to handle, is reliable and easy to service. It is a sturdy machine that can manage anything from initial clearing to final felling of trees with stem diameters of up to 50 cm.

The NIAB 5-15 can easily be hitched to any agricultural tractor. The processor has its own hydraulic system, which is driven by a robust pump and there is a gearbox designed for connecting directly to the tractor power take-off, which eliminates the transmission shaft. The machine can be mounted close to the tractor to ensure good weight distribution. NIAB has high capacity and features a number of technical refinements that enhance its working efficiency.

Winching

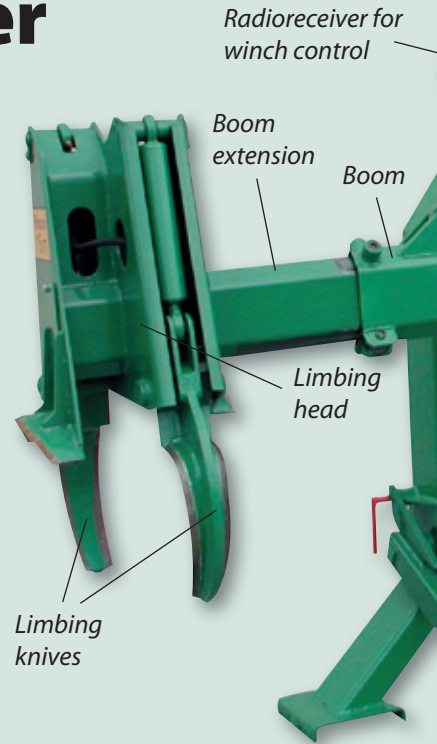
The NIAB 5-15 is equipped with a powerful hydraulic winch. Hauling-in can be controlled either remotely by radio control or locally from the control panel. The winch rope is 40 metres long, which enables the strip roads to be spaced far apart. During hauling-in, the limbing head is used as extra outrigger. The winch effort is 2,5 tonnes.

Feed in steps

The stem is lifted by the limbing head and is secured by the grippers. The boom feeds the stem in steps of 1,5 metres. This feed eliminates damage to the timber including skid damage. At the same time, increased power is available in limbing, since the feed and limbing operations never rob one another of power. Two different limbing knife pressure systems can be selected; i.e. manual with a switch on the control lever for the boom extensions, or automatic with low limbing pressure during retraction.

Other features include

- Built-in boom extension cylinder with damping at both limits of travel.
- Built-in saw with integrated lubricating pump and fixed saw motor.
- Large 60-litre hydraulic oil tank.
- Adjustable control panel for optimum working position.



NIAB 5-15C

The NIAB 5-15 is also available as an automatic version. The NIAB 5-15 C automatic is equipped with length and diameter meters as well as a steering system with nine pre-selection options. The length of cut can be chosen with either plus or minus bottoms on the maneuvering panel. Manual pre-selection can still be chosen.

Hitching



The snap hitch on the three-point hoist makes it easy to suspend the processor. The hydraulic pump can conveniently be connected to the tractor power take-off. No transmission shaft to worry about.

Winching

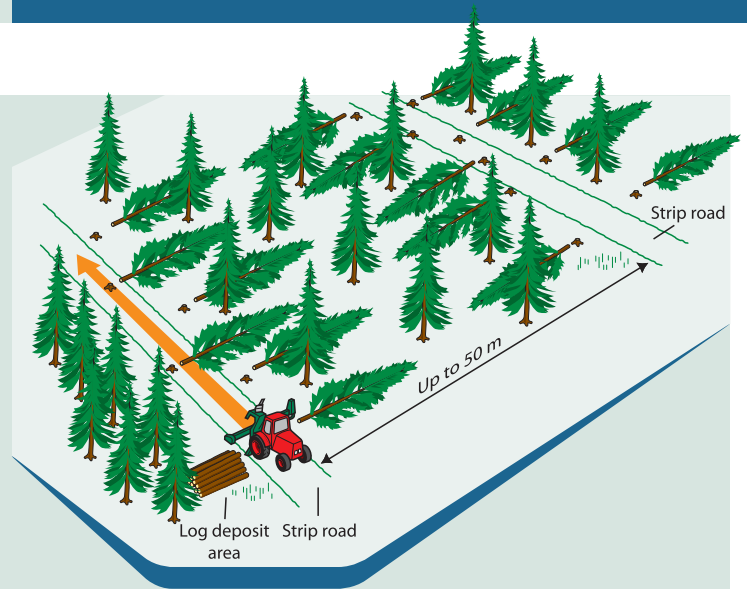
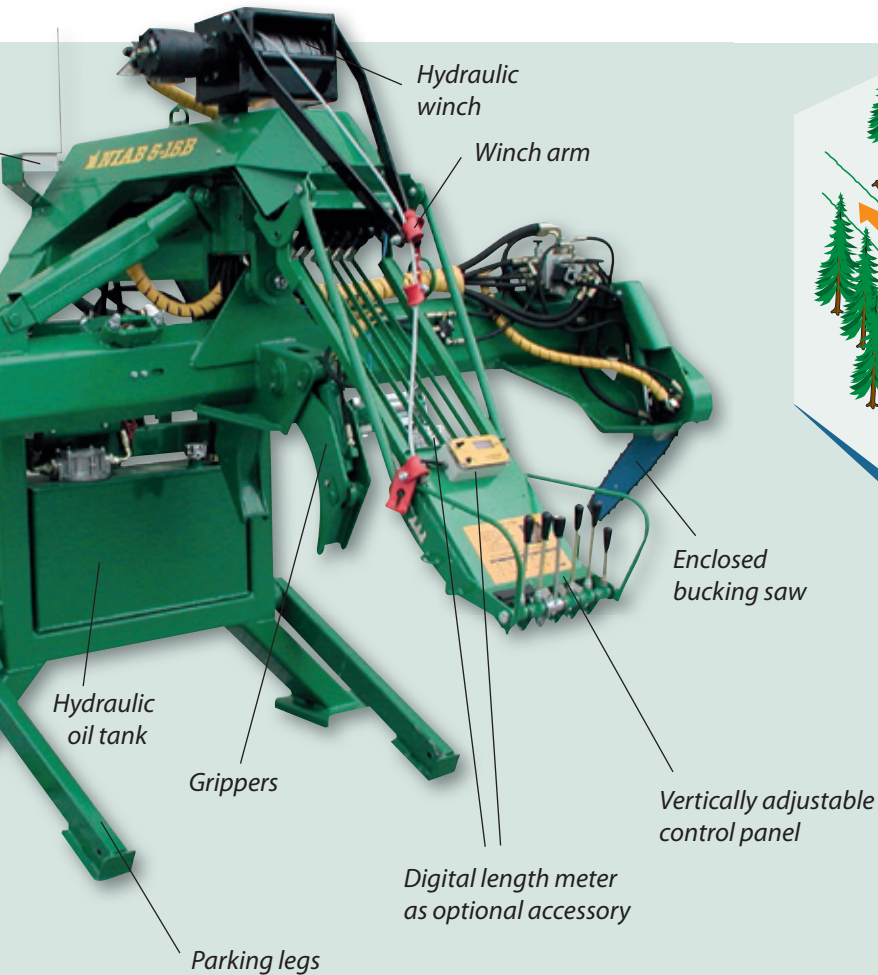


Hauling-in can easily be controlled either remotely or by means of a button on the control panel.

Limbing



The limbing head grips the stem, lifts it up, draws it in and secures it between the grippers. The stem is then limbed as the limbing head moves along it. This method virtually eliminates damage to the timber.



Thinning

The NIAB 5-15 minimizes losses on the strip-roads. The principle used is to reverse the processor onto the strip road as shown above. The trees are felled with the butt ends facing towards the processor, and because the thinning unit is clear of the ground, the trees can be felled even across the strip road. The operator simply reverses right up to the stern and lifts it straight up. Felled trees further away are then hauled in, preferably several at a time. After reaching the end of the strip road, work can be continued in the same way back along the second strip road.

Website

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Measuring



The processor can be equipped with a length meter as an optional accessory. The lengths are shown digitally on the control panel display.

Cutting



A sturdy, totally enclosed saw, 18-inch guide bar and 25 horsepower allow large stems to be cut without splitting damage. The saw is angled away from the operator for extra safety. The slewing angle of 75 degrees and a long outreach enable you to sort the logs and place them exactly where you want them.

Moving the brushwood



Branches and brushwood can easily be moved out of the way by using the limbing knives as grapples

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