Forestcorte
Máquinas



Compact, broad and versatile

Weight: 980 kg
Cutting diameter: 60 cm
Ideal tree size : 12-43 cm
Recommended working pressure: 23-28 MPa



The SP 561 LF is a high-performance all-round harvester head. It is designed according to the LF principle for maximum productivity. The SP 561 LF is specifically designed for varied jobs and offers very good characteristics all the way from first thinning to medium final cut. The compact measurements in combination with a perfect delimbing down to 30mm make sure that the first thinning can be done fast and efficient with the highest quality. In final cutting, i.e. when handling large diameter trees, the smart SP patents LogHold and proportionally angled feed rollers turns the SP 561 LF into a harvester head with an impressive capacity/weight ratio and unrivalled productivity. The SP 561 LF is without a doubt both compact, broad and versatile. SP 561 LF reaches top performance in stands with a diameter of 12 to 43cm dbh but is thanks to the LF principle also capable of efficiently working with larger tree sizes. SP 561 LF can be used with virtually all control systems on the market. Through a simple adaptation the SP 561 LF can be used together with the following systems: Dasa280, Dasa380, Dasa4, Dasa4 Compact, Dasa Forester, John Deere, Timbermatic, Motomit IT, Motomit PC, Komatsu MAXI, Ponsse Opti, Technion, Techno Matic, TOC-MD.

Knife Design.

The delimbing knives are cast in high-strength steel and equipped with long cutting edges. This means that the limbs are cut off instead of being broken off. This minimizes friction during delimbing and allows the trunk to be fed through easily.

Proportionally angled feeder rollers.

This smart solution means that when the harvester head is fully open, i.e. at maximum tree size, the feed rollers are at their greatest angle and provide maximum carrying force against the trunk. As the feed rollers carry the trunk, the pressure on the delimbing knives can be reduced, which means less friction and the harvester head can feed the trunk through quickly and easily.

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Proportional pressure.

Proportional pressure ensures that the harvester head automatically works at the correct pressure in relation to tree diameter. This means that the friction between the trunk and harvester head is minimized and that the harvester head run at peak efficiency. Individual settings per tree species maximises production further.

LogHold.

LogHold is an evolution of proportional pressure and means that the delimbing knife pressure against the trunk can be reduced, without the risk of the trunk being dropped. If the trunk is about to fall, LogHold regulates the knife pressure so that the trunk is held in the right position. The amount by which the diameter may increase before LogHold takes action is set in the control system. No additional sensors are required.

Hydraulics

Min. pump capacity	300 l/min
Rec. working pressure	23-25 MPa (625 cc roller motor) 23-28 MPa (514 + 560 cc roller motor)

Feeding

Roller motors	514, 560 or 625 cc
Max. opening	500 mm
Feed speed (m/s)	514 cc cylindrical engine = 6,0 560 cc cylindrical engine = 5,4 625 cc cylindrical engine = 5,0
Feeding force	25 kN
Proportional pressure	Yes

Cutting

Cutting diameter	600 mm
Chain speed	40 m/s
Saw motor	20 cc
Saw unit	Automatic - SuperCut 100
QuickCut	Yes, with Dasa control system

Delimbing

Movable knives	5 incl. top knife
Fixed knives	1
Delimbing diameter tip to tip	430 mm
Min. delimbing diameter	30 mm
Proportional pressure	Yes
LogHold	Yes
Separate knife control	Yes

Weight and dimensions

Width closed	900 mm
Width open	1500 mm
Height	1500 mm
Weight	980 kg

Additional equipment.

- **Color marking:** Used to optimize forwarding work when the assortments are difficult to distinguish by sight alone.
- **Multi-tree handling:** Optional equipment for heightened production when working with small-diameter stands as SP's multi-tree handling enables you to fell and accumulate several stems to be processed together.
- **Find end function:** With the aid of a sensor mounted in the saw unit housing, the head automatically locates the end of the stem at the push of a button.
- **Roller motors:** Different size roller motors are available to optimize the head's performance depending on working conditions and base machine size. Choose between 514 cc, 560 cc, and 625 cc motors.
- **Light for saw unit housing:** An LED lamp in the saw unit housing offers additional illumination of the work area.
- **Eucalyptus kit:** Debarking kit for eucalyptus trees.
- **Feed rollers:** Several different feed roller models and variants are available to suit different conditions and needs.
- **Measuring system integration:** SP harvester heads can be used together with essentially any measuring system on the market. This means lower investment costs and a quicker startup as the operator need not learn a new system.
- **Dasa5 complete measuring system:** A complete measuring system is required if mounting the head on, say, an excavator or a tracked harvester.

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