



Fast, versatile and reliable.



Weight: 1480 kg
Cutting diameter: 70 cm
Ideal tree size : 16-51cm
Recommended working pressure: 26-30 MPa

The SP 661 LF is a compact and strong high performance harvester head designed according to SP's Low Friction principle for minimum friction and maximum productivity. The SP 661 LF is designed to be able to offer highest productivity in both small and large diameter harvesting. In large diameter harvesting the proportional angled feed rollers in combination with SP's patented knife control system LogHold, allow for maximum capacity and productivity. When harvesting smaller diameter trees the compact and agile design is a great asset. Equipped with the optional Multi tree handling equipment the SP 661 LF is able to reach highest productivity also when harvesting very small tree dimensions. The extremely protected and robust design in combination with state of the art hose routing ensures highest reliability and uptime regardless of tree size and harvesting condition. The SP 661 LF is without a doubt both fast, versatile and reliable. The SP 661 LF reaches top performance in stands with a diameter of 16 to 51 cm but is thanks to the LF principle also capable of efficiently working with larger tree sizes. SP 661 LF can be used with virtually all control systems on the market. Through a simple adaptation the SP 661 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..

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 runs 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	360 l/min
Rec. working pressure	26-30 MPa

Feeding

Multi-speed feed	613-920 cc
Max. opening	630 mm
Feed speed	0-7 m/s
Feeding force	38 kN
Proportional pressure	Yes

Cutting

Cutting diameter standard	700 mm
Chain speed	40 m/s
Saw motor	32 cc
Saw unit	SuperCut 150

Topping saw (option)

Cutting diameter	350 mm
Chain speed	40 m/s
Saw motor	20 cc

Delimbing

Movable knives	4
Fixed knives	1
Delimbing diameter tip to tip	510 mm
Minimum delimbing diameter	30 mm
Proportional pressure	Yes
LogHold	Yes

Weight and dimensions

Width closed	1360 mm
Width open	1820 mm
Height, excl. tilt frame	1730 mm
Weight, excl. rotator	1480 kg
Weight with top saw, excl. rotator	1595 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 two fixed displacements, 750 cc and 820 cc, and the multi-speed feed presented below.
- **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.