



- fast, agile and efficient

Low friction

Maximum production and minimum friction

LF stands for "Low Friction" and refers to the very low friction that arises between trunk and harvester head in the LF series.

LF minimises the friction during feeding, thereby maximising the harvester head's performance and production. The low friction also minimises damage to the trunk, wear on the harvester head and fuel consumption.

The LF harvester heads have a low weight in relation to their capacity, and their compact design means that they can also be manoeuvred easily in dense stands. LF comprises four smart systems that help to minimise friction and maximise production.



LF - Low friction

1. Proportionally angled feed rollers mean that when the harvester head is fully open (at maximum tree size), the feed rollers provide maximum angle and carrying force in relation to the trunk. The larger the trunk, the greater the carrying force. This means that the harvester head feeds the trunk through quickly and easily, which in turn increases production.

(SP patent)



 Proportional pressure means that the harvester head automatically works with the correct trunk diameter. This minimises both energy consumption and wear. Various settings for different tree types maximise production and minimise trunk damage.



3. LogHold is a further development of the 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.

(SP patent)

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 minimises friction during delimbing and allows the trunk to be fed through easily.

In summary:

The LF principle gives our harvester heads the greatest possible performance and our customers the greatest possible production and yield.



SP 561 LF

- fast, agile and efficient

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 fast, agile and efficient.

SP 561 LF reaches top performance in stands with a diameter of 15 to 35cm dbh but is thanks to the LF principle also capable of efficiently working with larger tree sizes.



The SP 561 LF has many smart solutions and patents e.g. LogHold, proportionally angled feeder rollers and separate delimbing knife control. All of this to maximise the productivity in varying stands.



SP's QuickCut combined with the extremely strong SUPER-CUT100 saw unit ensures that cutting cracks are minimised.

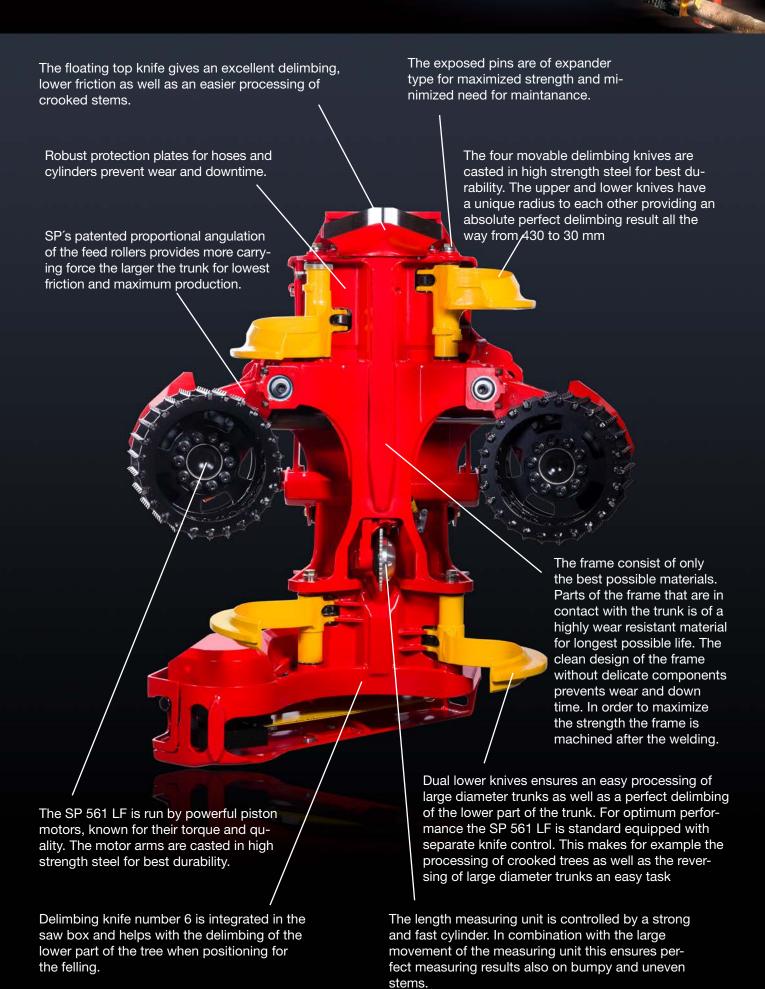


The compact design combined with multi-tree equipment provides the highest possible productivity during small diameter thinning.

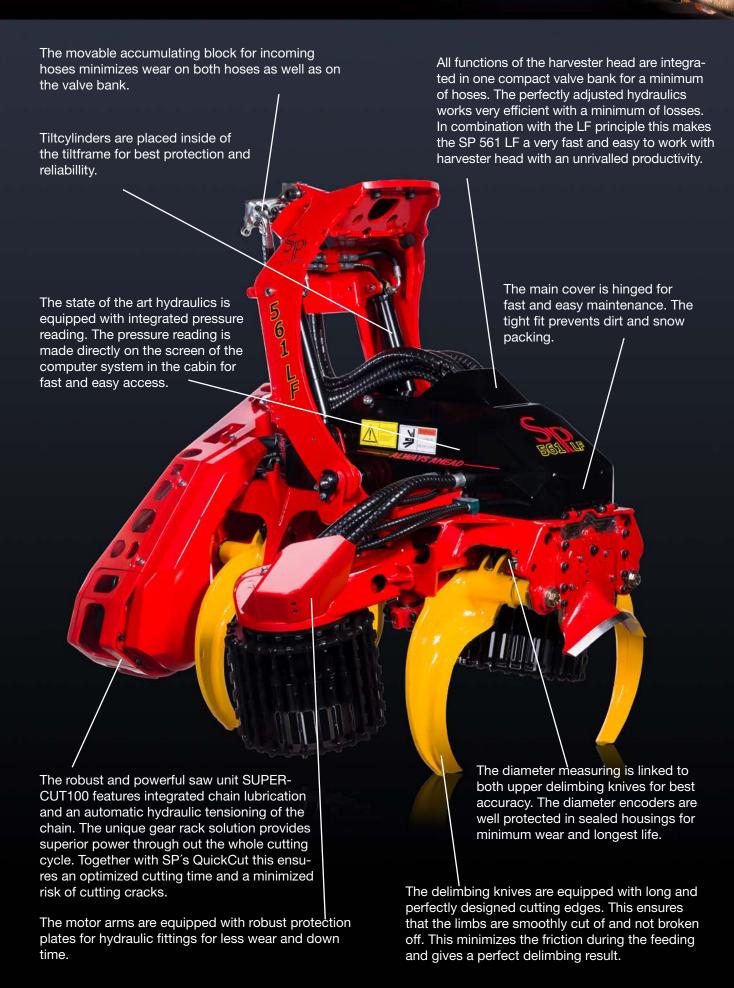
SP 561 LF



SP 561 LF - Details



SP 561 LF - Details





Technical data and recommendations

Hydraulics

Min. pump capacity 195 l/min

Rec. working pressure 23 – 25 MPa (625 cc roller motor)

23 - 28 Mpa (514 + 560 cc roller motor)

Feeding

Proportional clamping pressure of the feed rollers in relation to trunk diameter, individual settings for different species for optimum performance.

Roller motors 514, 560 eller 625 cc

Max. opening:500 mmFeeding force25 kNFeed speed0 - 6 m/sProportionella tryckYes

Cutting

SuperCut 100 är en mycket kraftfull enhet med integrerad kedjesmörjning och hydraulisk sträckning av kedjan.

I kombination med SP's QuickCut optimeras kaptiden och risken för kapsprickor minimeras.

Cutting diameter600 mmChain speed40 m/sSaw motor20 cc

Saw unit Automatic - SuperCut 100

QuickCut Yes

Delimbing

Proportional delimbing knife pressure in relation to trunk diameter for minimum friction and maximum production.

Individual setting of upper/lower knives and for different tree species for optimum performance

Movable knives 5 inkl topp kniv

Fixed knives 1

Min. delimbing diameter 30 mm

Delimbing diameter tip to tip 430 mm

Proportional pressure Yes

LogHold Yes

Separate knife control Yes

Weight and dimensions

With compact dimensions and a very low weight in relation to its high capacity, the SP 561 is perfectly suited for a range of felling jobs.

Width closed 900 mm
Width open 1500 mm
Height 1500 mm
Weight excl. rotator 980 kg

Recommendations

Carriers

The SP 561 LF can be fitted to a variety of different carriers, such as conventional forest machines, excavators and forestry tractors. In order to ensure good function, please consult your nearest SP dealer or SP staff.

Tree sizes

Optimum tree size dbh*: 15 – 35 cm Max. rec. tree size dbh*: 43 cm

Vi förbehåller oss rätten att ändra i specifikation och utförande. Avbildade skördaraggregat kan ha viss extrautrustning. Alla angivna mått/värden är ca uppgifter och avser standardutrustning.

^{*} Diameter breast height, measured 1.3 m up from the ground.

SP 561 LF

Accessories and equipment

SP 561 LF come with a high level of equipment as standard. However, a number of different accessories are available in order to optimise the harvester head for different needs, carriers and felling conditions. The most common accessories are described below.

For more information about accessories, please contact your nearest SP dealer or SP Maskiner.

Colour marking SUPERMARK

Used to facilitate forwarding when the assortment is difficult to distinguish with the naked eye. When the saw cuts through the log, the SUPERMARK marks the end by spraying a jet of paint on the cut end. A very reliable and well tested system.





Colour tanks on tilt frame

Colour tanks on tilt frame

Hydraulic motors:

To optimise the SP 561 LF for different machines and felling conditions, there are three different sizes of hydraulic motor available. 514 - 560 - 625 cc.

Multi-tree equipment

High productivity equipment for small diameter stands because using SP's multi-tree equipment it is possible to fell and gather several trunks before processing them simultaneously.



Feed rollers

Different feed rollers for different species and conditions.



Moipu



SP Stålvals



Mense



Tireco

Find end sensor

Makes work easier in forests that are already felled since this function, at the push of a button, allows the head to automatically find the root end and zero the length.



Complete measurement and control system

SP harvester heads can be installed on machines equipped within any of the following control systems:

Dasa4 dxPC - Dasa4Compact - Dasa5 - Dasa Forester

Motomit IT - Motomit PC



Retrofitting measurement & control Systems

The SP 561 LF can be equipped for mounting machinery with the following measurement & control systems: Dasa280 - Dasa380 - Dasa4 dxPC - Dasa4Compact - Dasa5 - Dasa Forester Motomit IT - Motomit PC

Valmet MAXI

JohnDeere Timbermatic 300 / 3000

Technomatic

Aptor20

Other options

Rotators - Swing dampers - Joysticks - Parts kits - Rotator valve



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Distributor



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