# Log Max 6000V TOPSAW

**HEADS ABOVE THE COMPETITION**

logmax.com

# 6000V TOP SAW

## GET MORE DONE, ENJOY VERSATILITY

Introducing the Log Max 6000V Top Saw, our first Top Saw head outside the XT series, this head is well suited for wheeled harvesters. The 6000V Top Saw maximizes timber yield from every log, and makes it easier to handle heavily branched trees. Use the top saw to optimize log length and the new Tilt Control to position the head at the desired angle when harvesting crooked trees and for processing the remaining tree crown.

With its reinforced design, the Log Max 6000V Top Saw can withstand the toughest applications, while delivering unparalleled accuracy and precise measurements of length and diameter.

Plus, with its smartly designed features, servicing the Log Max 6000V Top Saw is a breeze, allowing you to keep it running for longer hours without any hassle.

# WHAT MAKES THE 2025 6000V TOP SAW SPECIAL :

## DURABILITY

The frame is reinforced in many places to withstand the toughest jobs and increase lifespan.

## TILT CONTROL

The new Tilt Control system enables you to place the head at any desired tilt angle. This is a game changer when processing heavily limbed trees or when working in steep terrain.

## CUTTING PERFORMANCE

The new 318 MK2 - 30cc as a new saw valve optimized to offer fast, trouble-free cutting. The sawbox can now fit up to a 90cm sawbar.

## THE MEASURING RESULTS

There is a high requirement for today's harvester heads to deliver precise measurement results. The 6000V Top Saw measuring unit has been redesigned to meet these requirements.

## SIMPLICITY & EASE OF ACCESS

It's now even easy to perform regular maintenance and service on the head. Improved accessibility, well laid out hoses and grease nipples makes life easier.

# FEATURES

## REINFORCED FRAME AROUND THE LENGTH MEASURING UNIT

To improve the frame's durability and life span, we have changed the design of the measuring wheel hole and reinforced the stoppers for the feed roller arms on the inside of the frame, this increases the frame's strength and stability.

## OUTSTANDING LENGTH MEASUREMENT FUNCTION & CONTACTLESS SENSOR

The length measuring unit is packed with smart features, such as the contactless sensor, easier lubrication, and durable tapered bearings.

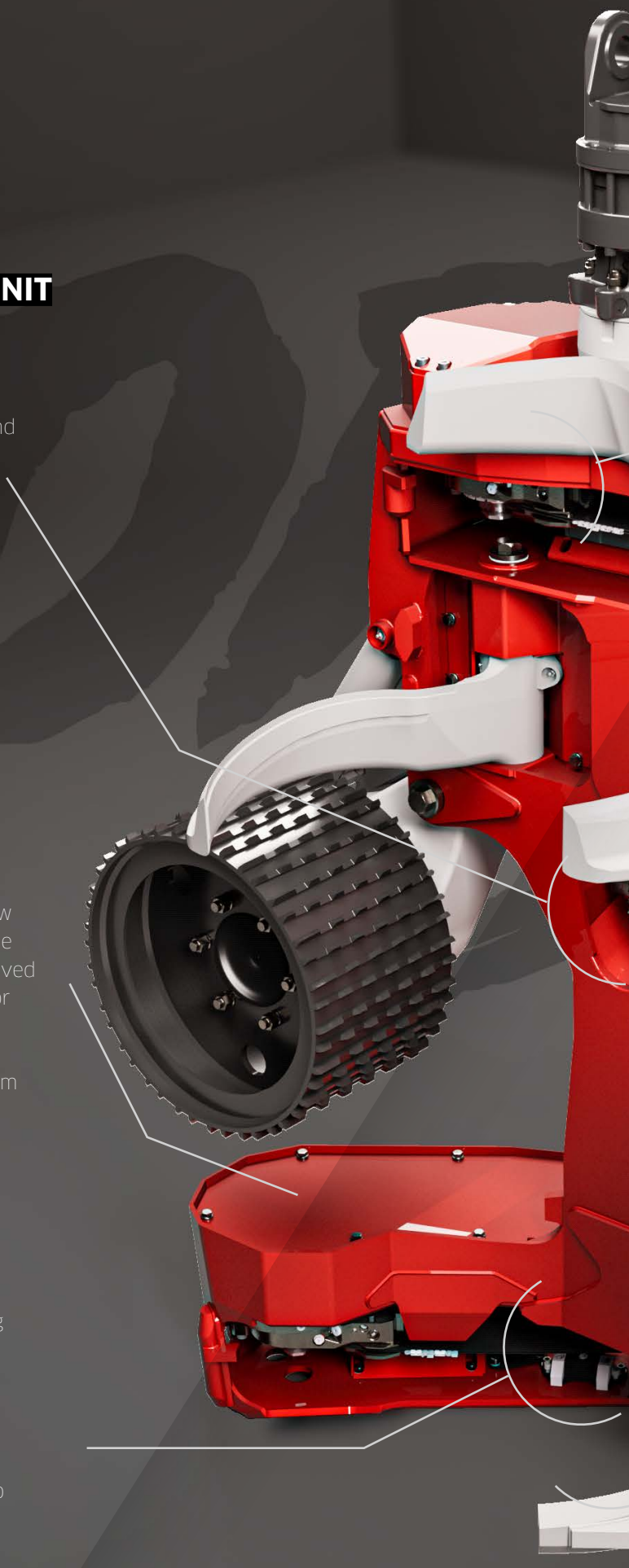
## SAW 318-MK2

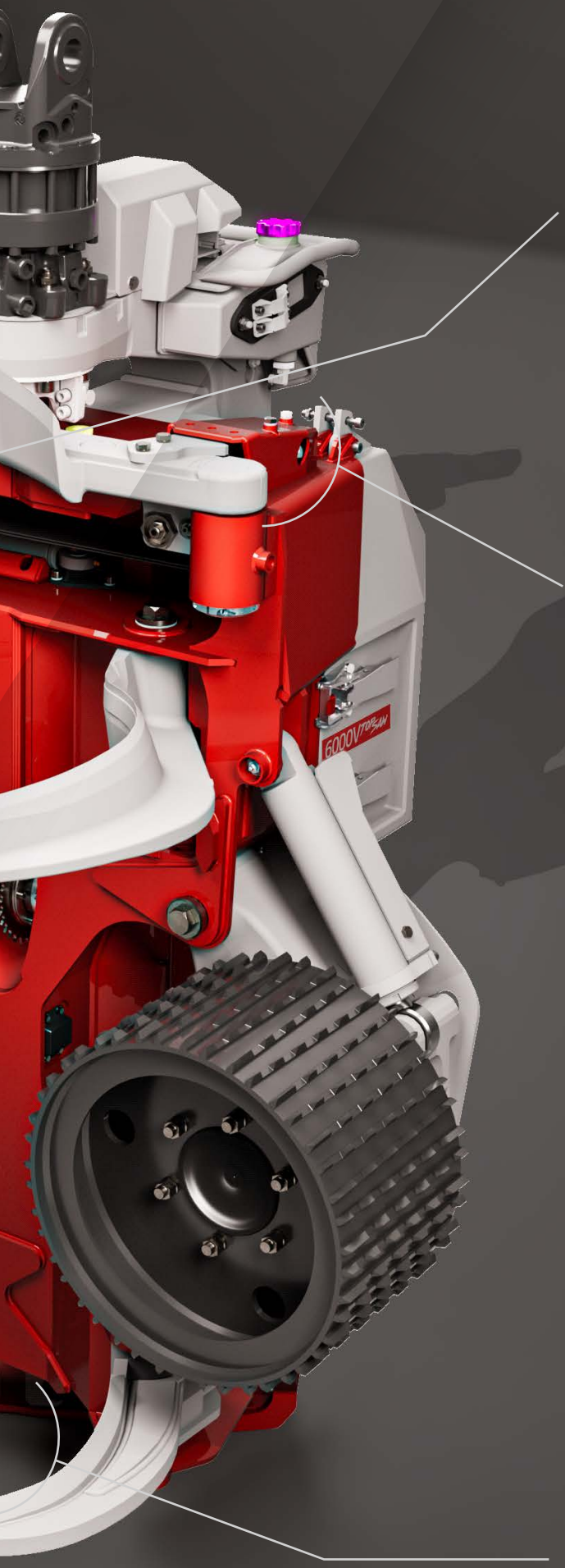
The saw 318 MK2 offers enhanced convenience and durability with careful material choices and design ideas that minimize maintenance needs. Upgrades include a new rubber seal to prevent dirt and moisture from entering the chain tensioner, a Hardox 450 saw bar holder with improved strength, a new location for the "saw bar home" sensor for easy servicing, and new tensioner pistons for increased durability and service life.
The saw units also feature a new speed sensor making rpm measuring safer.
Kanske lägga till Cutting control

The saw is available with True-Cut motor or 30cc motor.

## COLOR MARKING

The harvester head can be equipped with a color marking system with two colors.
Two color tanks are mounted on the felling link, the hydraulic pump is mounted on the left side of the frame and the nozzle block is mounted on the bottom plate of the frame. The color hits the downside of the sawbar and is transferred over to the log that is cut off. The setting to achieve the correct timing is made in the control system. Color marking can be very useful to sort out different assortments of the tree.






## 318 MARK II TOP SAW

The Log Max 6000V Top Saw is mounted with our latest generation of the 318 Mark II saw unit.
The saw motor is 30 cc and the maximum sawbar length is 60cm.
Both the cut contol and the “saw bar home” sensor are located close to the saw motor.
This head is the first in our head line-up to feature Cut-Control at the top saw, this give you the ability to control the saw feed from your control system.

## HYDRAULIC UPPER KNIFE

The upper knife is available in welded or cast variants. Both can be hydraulically controlled, this a great function when reversing and and working with curvy trees with lots of branches.

## DELIMBING KNIVES

The head features two different types of delimbing knives, The harversting knives for regular standing trees harvesting and the processor knives when working with a pile a the stand.

## POCLAIN 780CC or 857CC

The Poclain motors have a built in speed sensor.
The speed sensor, makes it easier and safer to install and monitor the head.

## NEW LASER FIND END SENSOR

The Laser Find End function has been redesigned and relocated to increase durability and reduce the risk of debris build-up. The new design includes a protective lens.

# FEATURES

## SAFETY PIN ATTACHMENT INTEGRATED INTO FRAME

To simplify service, facilitate transport and increase safety, the safety chain has been replaced by a “Safety Pin”, which forms a locking mechanism between the frame and the felling link. You can now link a bracket under the rotator to a bracket in the frame with the help of a locking pin.

## CYLINDER PROTECTION

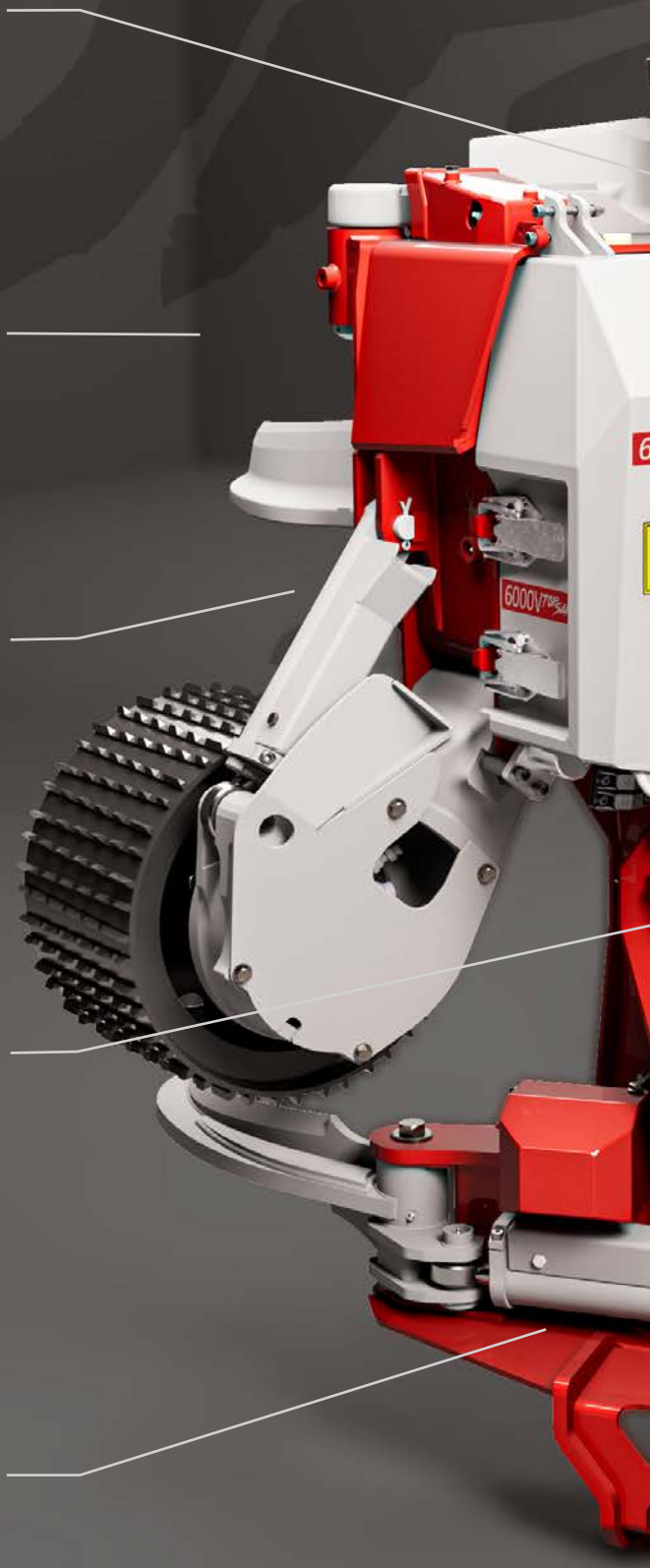
The feed roller arms cylinders have reinforced protections mounted.
An optional feed roller arm cover is available. This cover has a built in cylinder rod protector. This will greatly improve the life span of the cylinders.

## EXPANDER PINS

The felling link is attached to the frame using a expander pin. This type of pin is also used for the feed roller arms and knives.

## STRONG HYDRAULIC CYLINDER FOR THE LOWER DELIMBING KNIFE

For optimal function of the lower delimbing knife and increase its stroke length the Log Max 6000V Top Saw is equipped with large cylinder similar to the one found on the 6000V.




## HOSE CONNECTOR PLATE

An optional hose holder is available, it can only be mounted when combined with the reinforced felling link.

## FELLING LINK with TILT-CONTROL

The felling is available in two verions, A lighter welded felling link, the we call “standard fellink link” and a reinforced model. (approx. +30Kg). The maximum tilt angle is 133°.

The Log Max 6000V Top Saw, is the first Log Max head to feature Tilt-Control.

Read more on page 10

## REPLACEABLE PINS FOR FELLING LINK CYLINDER

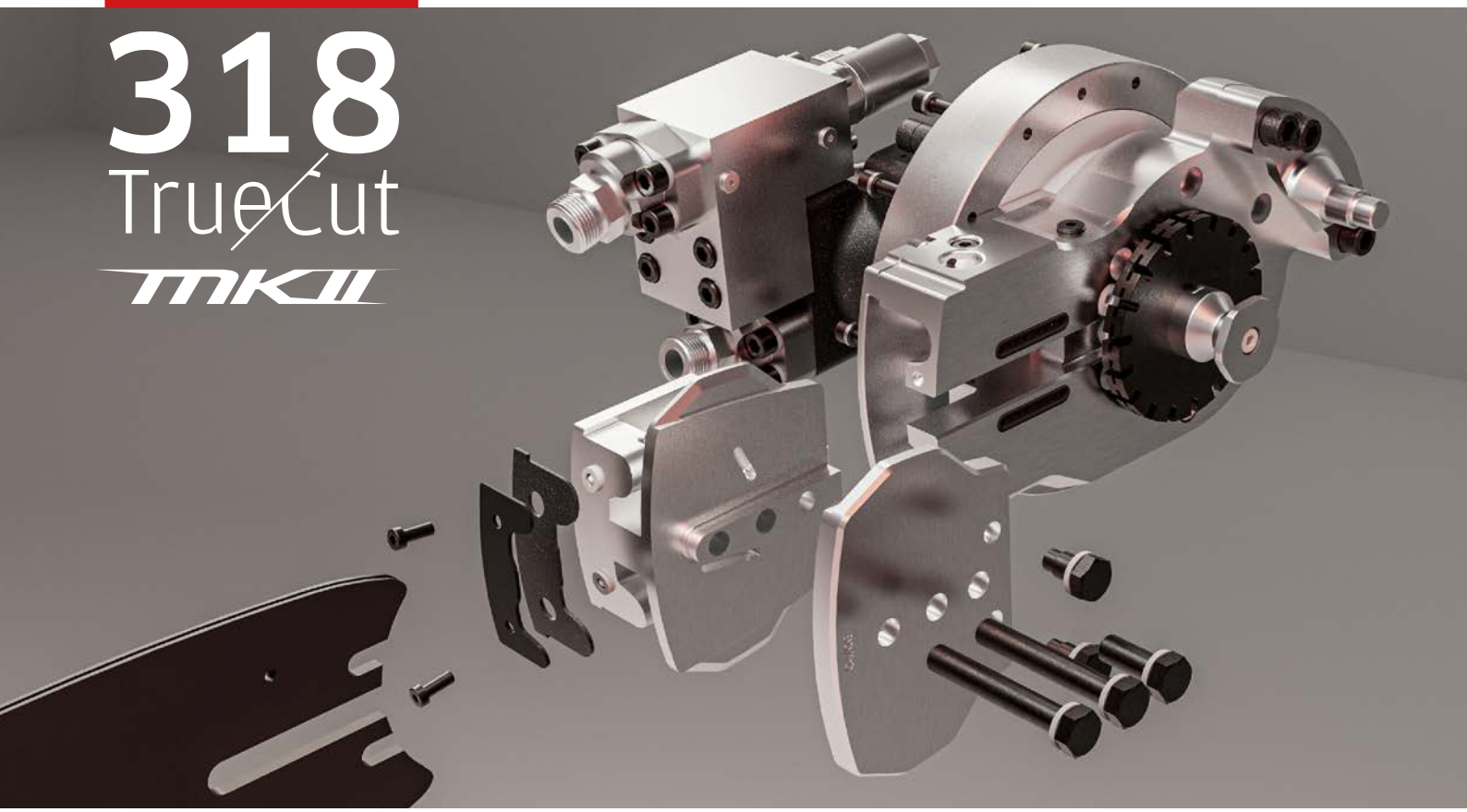
The pins for attaching the felling link cylinder in the frame are screwed at both ends. The refinement will simplify service and maintenance.

## OPTIMIZED GEOMETRY AND DESIGN OF THE SAW BOX

The saw box has been redesigned and extended to accommodate saw bars up to 90 cm in length, a new root protection plate providing enhanced protection to the chain against roots and enables easier cutting of larger trees with a maximum diameter of 78,4 cm (30.9”).
Furthermore, the footprint of the saw box has been reduced, making it particularly advantageous in snowy conditions.

# SAW UNITS

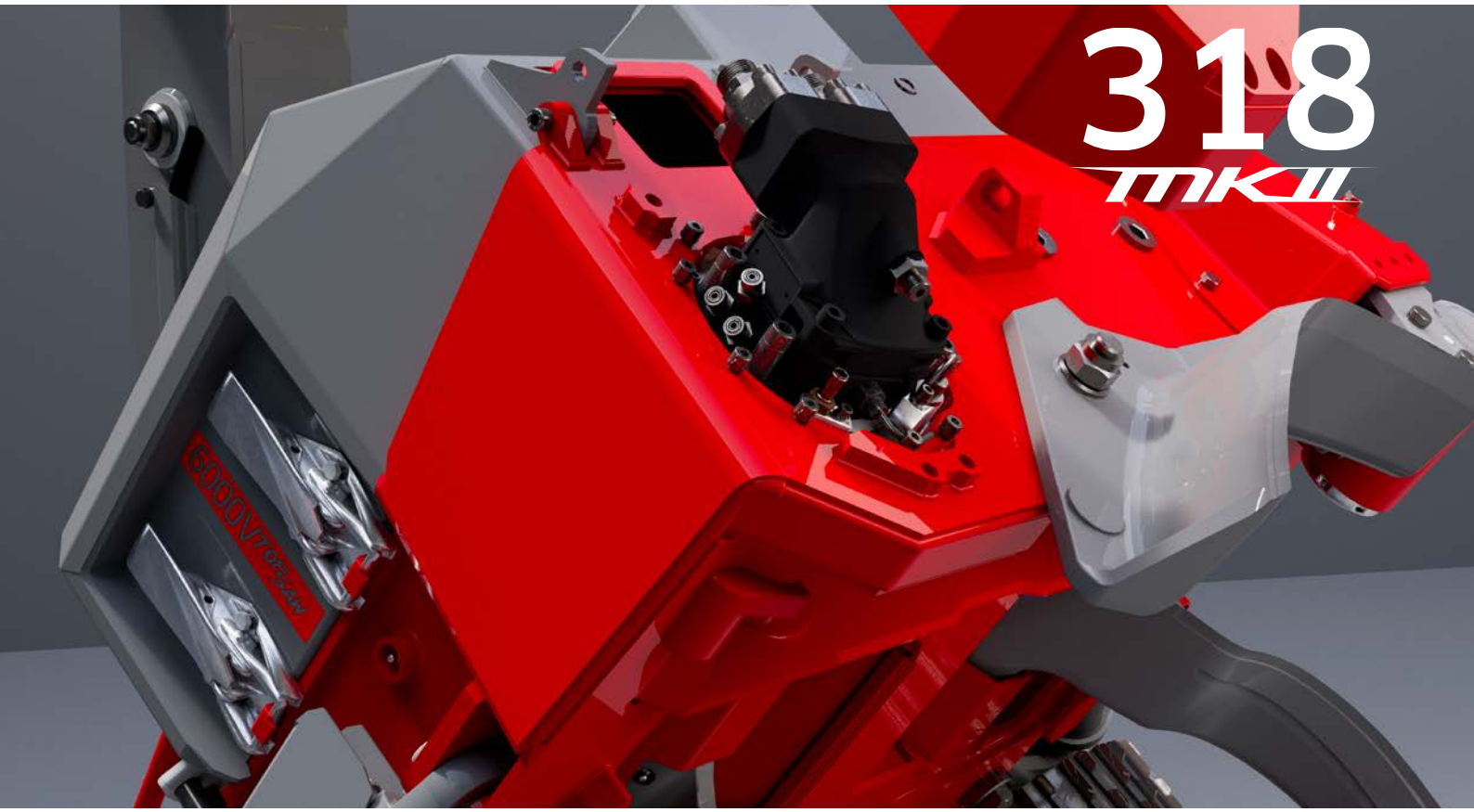
# 318 TrueCut MKII



**The Log Max 6000V Top Saw is equiped with two 318 MK2 with 30cc motors. Through meticulous material selection and innovative design concepts, these units significantly reduces maintenance requirements while maximizing durability. Discover the new features that make the Saw 318 MK2 a game-changer.**

**Upgraded Saw Bar Mount:**
The saw bar bracket has undergone significant improvements. It now includes a protective cover and rubber seals to seal off the bracket, preventing the infiltration of dirt and dust. Additionally, new grease nipples have been added to the front sides, enabling easy application of grease to safeguard against moisture, dirt, and debris.

**Enhanced Saw Bar Holder:**
The saw bar holder has been upgraded with premium-grade Hardox 450 material and an improved design. The attachment mechanism for the saw bar itself has been reinforced, ensuring enhanced strength and longevity. Furthermore, the updated contour of the holder acts as a guide, effectively realigning the chain if it is at risk of disengagement.



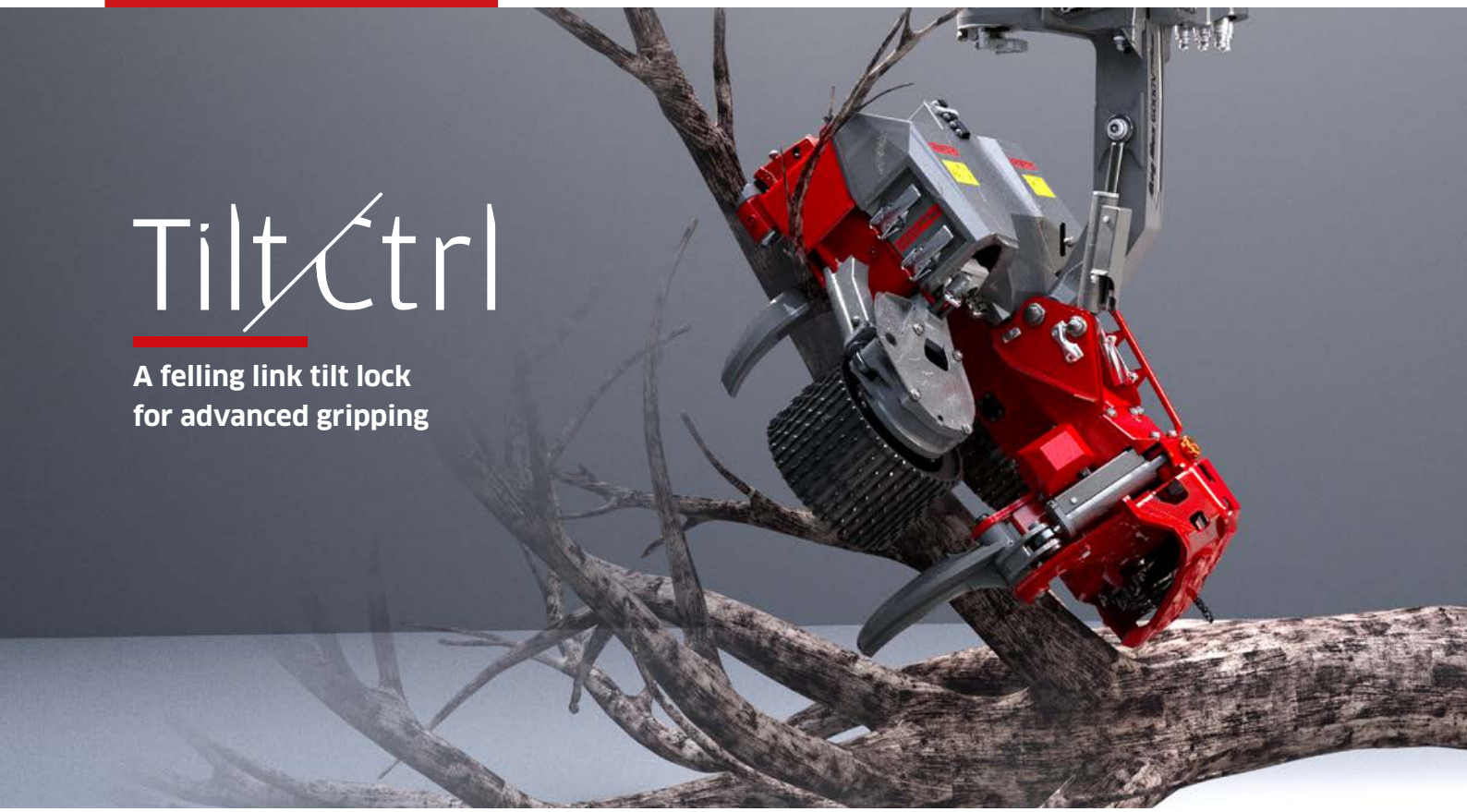

**Convenient “Saw Bar Home” Sensor Placement for the main saw:**
To optimize servicing convenience, the “saw bar home” sensor has been repositioned, facilitating easy access during maintenance operations.

**Improved Swivel Seals Material:**
The swivel seals now feature a new material, selected to increase service life and simplify assembly processes. This enhancement ensures longevity and efficient functionality.

**High-Performance Tension Pistons:**
The tension pistons have been crafted from premium case-hardening steel, a durable material that significantly improves their lifespan. This upgrade guarantees superior durability and prolonged service life.

**TOP SAW VERSION**
In order to ensure ease of access and maintenance the saw motor is rotated toward the rear. This allows for the a better routing of the 3/4” hoses.

# TILT CONTROL




**The new Tilt Control system enables you to place the head at any desired tilt angle. This is a game changer when processing heavily limbed trees or when working in steep terrain.**

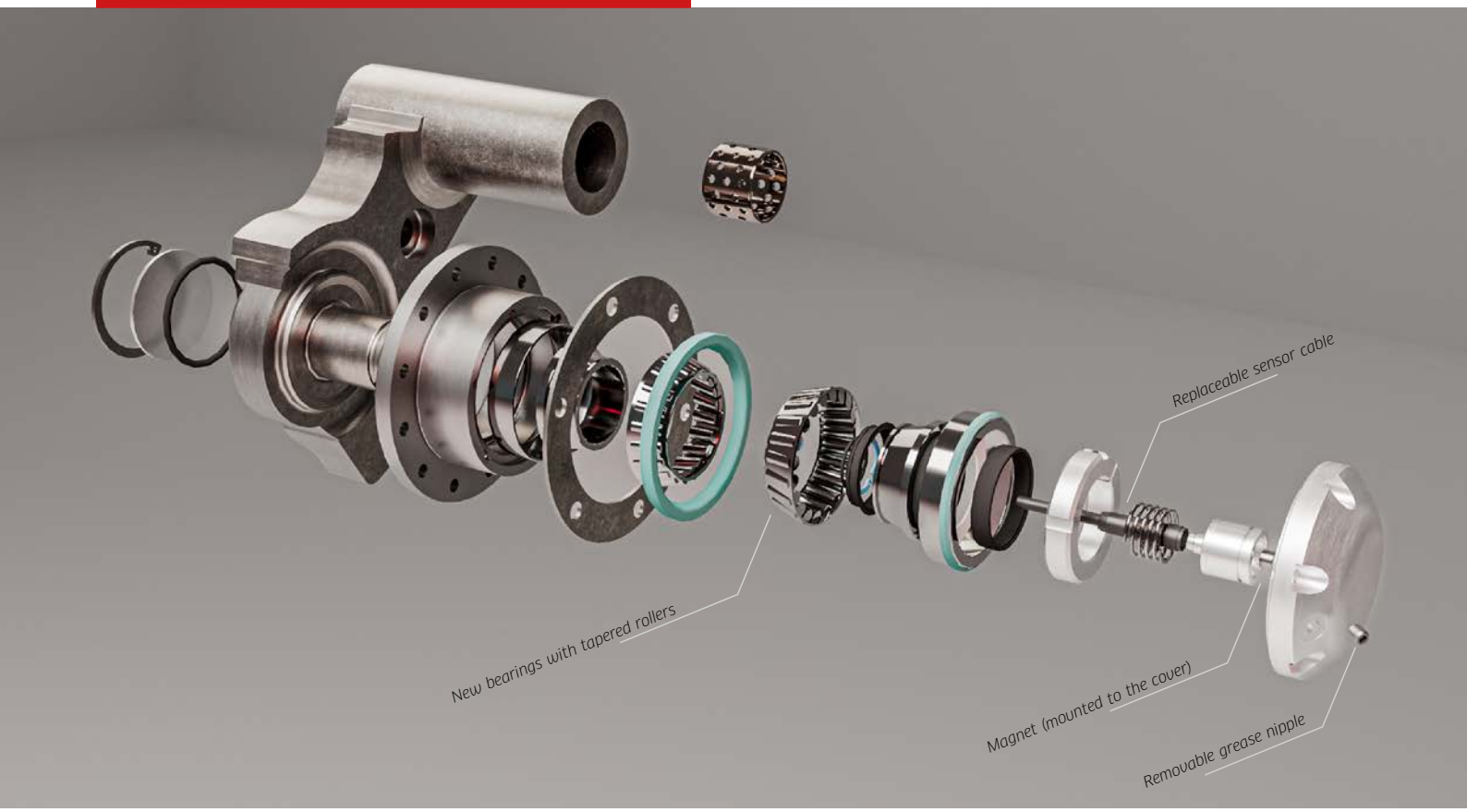
The Tilt Control function allows to lock the felling link and set the unit at any angle when processing heavily branched trees.
Tilt Control comes as standard and the valve for this function is mounted below the existing tilt valve on the left block.

The geometry of the felling unit has been designed to be a very well-balanced unit, which in upright position, with standard equipment, hangs vertically. In tilted down position, with standard equipment, it leans 28º and in float position 3º down towards the main delimbing knives.

The felling torque is well adapted to the harvester head size and together with rubber dampeners in both directions, a soft and stable function is obtained.

As standard the felling unit is equipped with a rubber protection to prevent snow and debris from packing between the fellink link and the protective cover. The felling unit is also equipped with a protective bar that protects the hoses from the base machine.

# LENGTH MEASURING




**The length measurement function has been significantly improved to enhance accuracy. Changes include redesigning the measure wheel cylinder, updating the hydraulic circuit, reinforcing the measuring wheel arm and attachment, the measuring wheel is larger in diameter. These enhancements allow the measuring wheel to precisely follow the stem's contour, resulting in superior measurement results.**

**Contactless sensor:**
The sensor for the length measurement is contactless and has no mechanical moving components that will result in minimal or even non-existent service and maintenance of this sensor.

*The spring loaded sensor is placed in the arm and retained by a lock ring. An o-ring prevents it from turming. The magnet is fixed to the cover. The cable is detachable.*

**Tapered roller bearing and lubrication point**
The measuring wheel assembly has been equipped with a bearing with tapered rollers which provides a more stable and stronger construction.

To simplify the maintenance of the roller bearing, we have added a lubrication point on the aluminium cover of the measuring unit. You can now easily insert a lubrication nipple into the lubrication point (recommended every 1000h.) and refill with grease.


TiltCtrl

Log Max

# 6000V

# 318

TrueCut

MKII

# 6000V Top Saw 2025 IN NUMBERS

## DIMENSIONS AND WEIGHT

| | | |
|---|---|---|
| Weight (incl. feed rollers and cushioned protection plate, saw unit, hydraulic oil and lubrication oil) | 1608 kg | 3 545 lbs |
| Min. width | 1 285 mm | 4 ft 2.6“ |
| Max. width | 1 689 mm | 5 ft 6.5” |
| Total height | 1959 mm | 6 ft 5.1” |
| Height to felling link | 1 914 mm | 6 ft 3.4” |
| Max. full delimbing coverage | 470 mm | 18.5” |
| Max. cutting diameter, main saw | 784 mm | 30.9“ |
| Max. cutting diameter, top saw | 466 mm | 18.3“ |
| Min. opening between feed rollers, V-steel | 17 mm | 0.67” |
| Max. opening between feed rollers, V-steel | 625 mm | 24.6” |
| Max. opening between main delimbing knives | 642 mm | 25.3” |

## SAW UNITS

| Equipment | Saw 318 True Cut | Saw 318 |
|---|---|---|
| Saw chain tensioning | Automatic | Automatic |
| Saw motor | 19 ccm - 1.16 cu in | 30 ccm - 1.83 cu in |
| Max. cutting Ø | 784 mm - 30.9” | 784 mm - 30.9” |
| Saw chain speed | max 40 m/s - 131 ft/sec | max 40 m/s - 131 ft/sec |
| Saw bar standard 75 cm | 549518-175SM | 549418-475SM |
| Saw bar optional 82 cm | 549418-182SM | 549418-482SM |
| Saw bar optional 90 cm | 549518-190SM | 549418-490SM |
| Saw chain | 88/96/103 DL | 92/99/106 DL |
| Saw chain pitch | 0.404” | 0.404” |
| Chain sprocket | Z13 | Z18 |
| Cutting control sensor | Yes | Yes |
| Chain oil capacity 33 liters - 8.7 US gal | | |

Recommended carrier weights
The size of the carrier that is required depends in part on carrier’s design and crane length.
Harvester (rubber wheeled): 18-25 tonnes
Excavator (tracked carrier): 21-30 tonnes

## TOP SAW UNIT

| | |
|---|---|
| Equipment | Saw 318 |
| Saw chain tensioning | Automatic |
| Saw motor | 30 ccm - 1.83 cu in |
| Max. cutting Ø | 466 mm - 18.3” |
| Saw chain speed | max 40 m/s - 131 ft/sec |
| Saw bar standard 60 cm | 549418-460SM |
| Saw chain | 77 DL |
| Saw chain pitch | 0.404 |
| Chain sprocket | Z18 |
| Cutting control sensor | Yes |
| Chain oil capacity 33 liters - 8.7 US gal | |

## FELLING

| | |
|---|---|
| Felling movement | 133° |
| Felling torque (hydraulic torque and weight torque) | 7,5 kNm - 5 531 lb-ft |
| Max. crane size, gross lifting torque | 300 kNm - 221 268 lb-ft |

## HYDRAULICS

| | |
|---|---|
| Max. flow, at working revs | 330 l/min - 87 us.gal/min |
| Min. required flow, at working revs. (to get 3,0 m/s feeding speed) | 200 l/min - 53 us.gal/min |
| Max. Hydraulic pressure | 280 bar - 4,061 psi |
| Min. Hydraulic pressure | 250 bar - 3,626 psi |
| Max. hydraulic power, at working revs | ca. 154 kW |
| Min. hydraulic power, at working revs | ca. 84 kW |
| Max. recommended carrier engine power, at working revs | ca. 188 kW - 250 HP |
| Min. recommended carrier engine power, at working revs | ca. 103 kW - 140 HP |

## FEEDING

| Motor type | Theoretical force | True feeding force | Speed |
|---|---|---|---|
| 857cc (standard) | 28,7 kN - 6,452 lbf | 26,3 kN - 5,912 lbf | 5,0 m/s - 16.40 ft/s |
| 780cc (opt.) | 26,1 kN - 5,867 lbf | 24,0 kN - 5,395 lbf | 5,5 m/s - 18.04 ft/s |

Log Max

2024-08