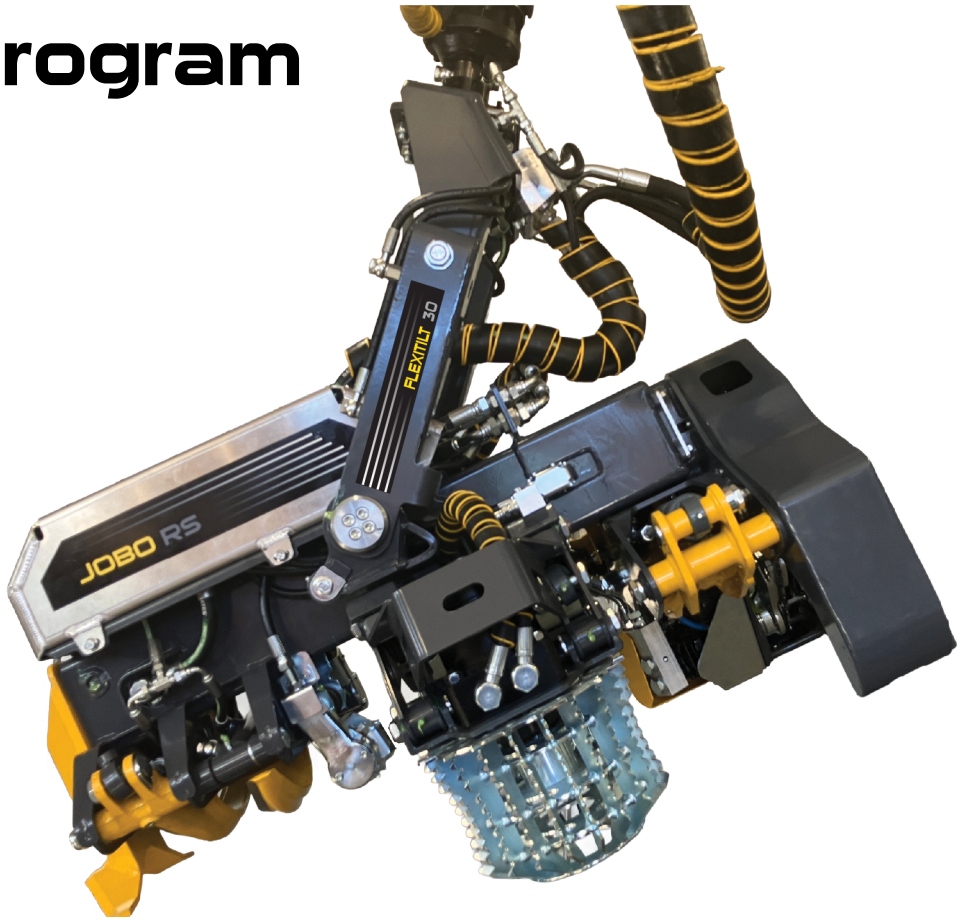
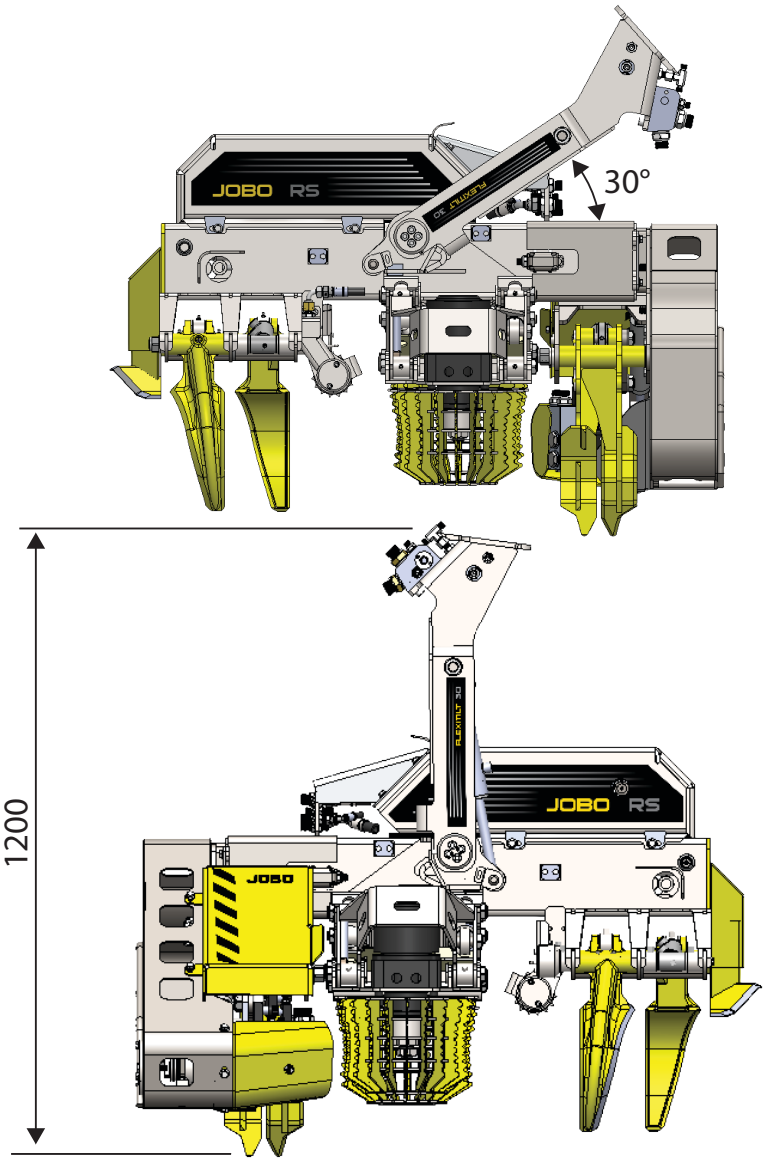
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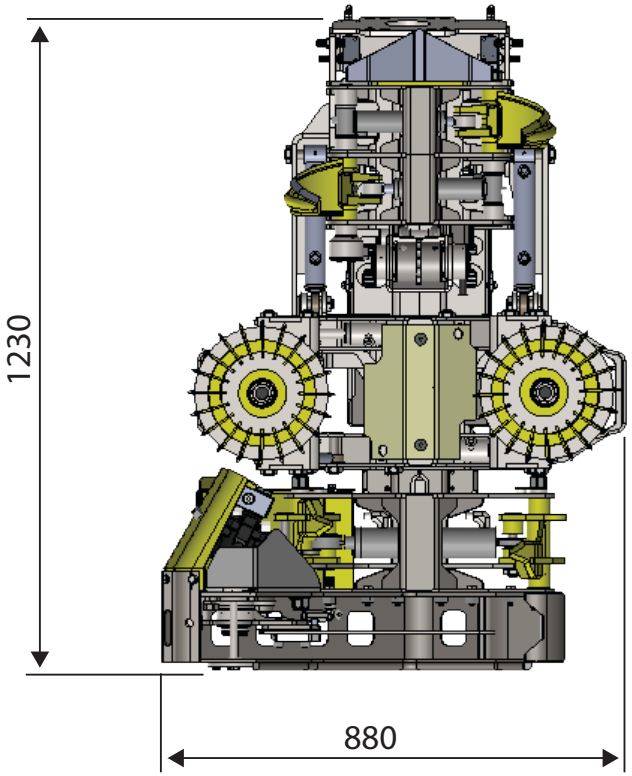
JOBO RS50
Product program



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Main dimensions JOBO RS50





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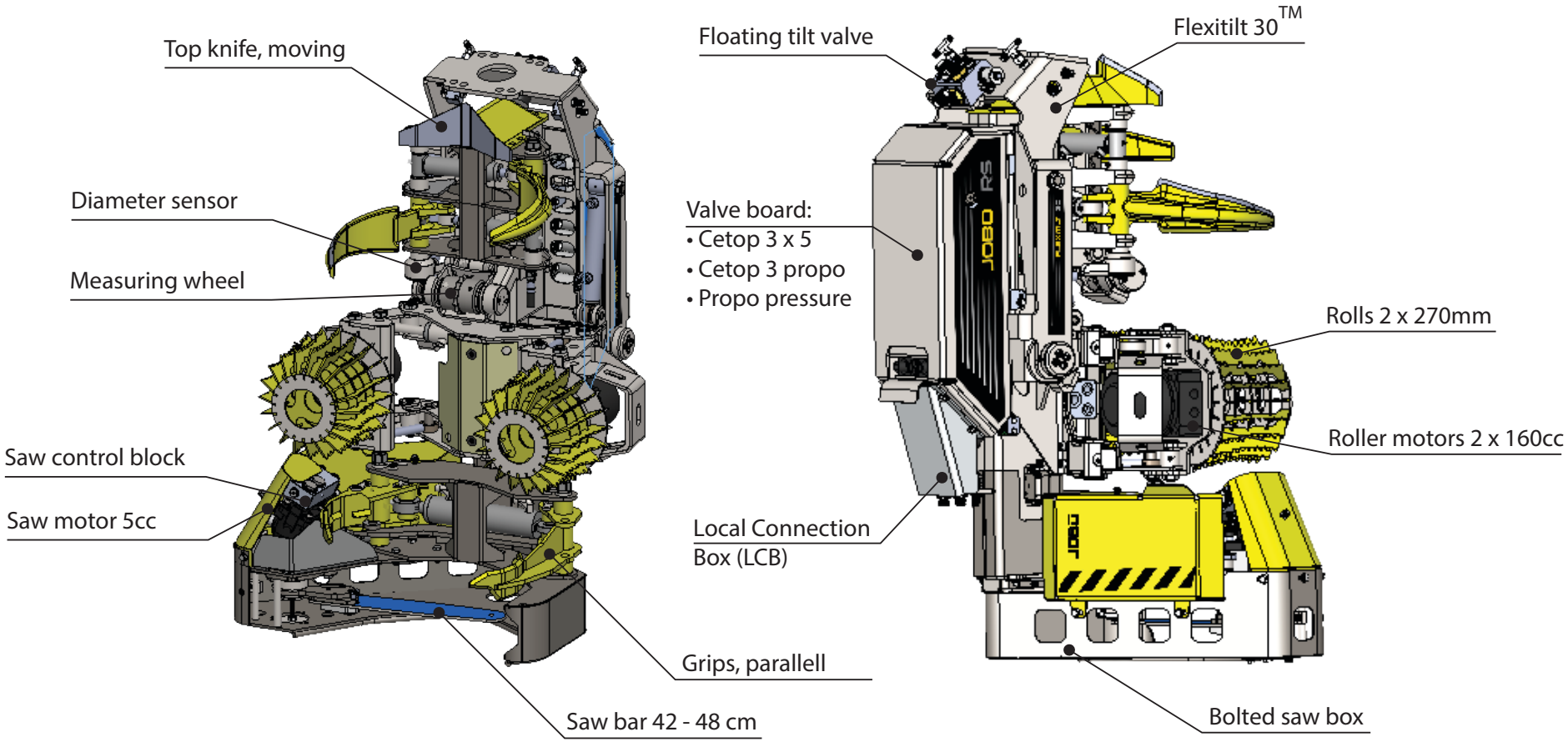
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SPECIFICATION

Specification	JOBO RS50 PreCombi	JOBO RS50 Combi
Weight of base machine	250 kg	330 kg
Fell diameter	30 cm	30 cm
Delimbing diameter	25 cm	25 cm
Min delimbing diameter	3 cm	3 cm
Oil demand	40 - 60 l/min	50 - 80 l/min
Hydraulic pressure	190 bar	200 bar
Stroke length (full length)	50 (52) cm	50 (52) cm
Feed force, ø40 cylinder	23 kN	23 kN
Feed force, 160cc rolls	-	12 kN
Feed speed- rolls/ stroke	0,75 m/sec	2,6/0,75 m/sec

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Main components JOBO RS50



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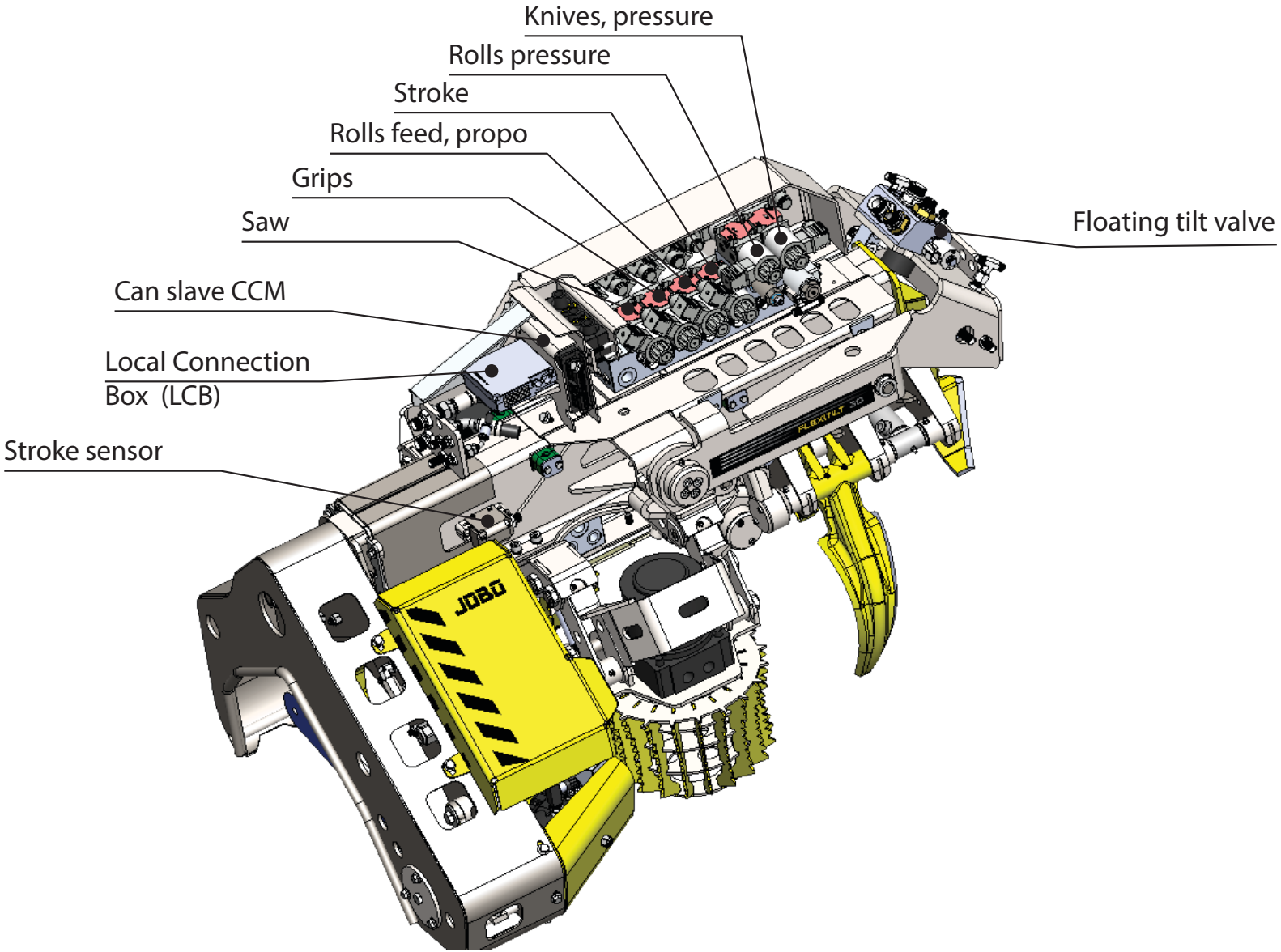
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JOBO RS50 - SCOPE SELECTION

Specification	JOBO RS50 PreCombi	JOBO RS50 Combi
Length measure, stroke	Standard	Standard
Length measuring roll	Option	Standard
Diameter measure	Option	Standard
Mechanical saw limiter	Standard	Standard
Electronic saw limiter	Option	Option
Feed rolls	-	Standard
Stump treatment	Option	Option
Bio oil chain lubrication	Option	Option

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Valve configuration, Combi



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VALVE BOARD CONFIGURATION

Specification	JOBO RS50 PreCombi	JOBO RS50 Combi
Directional valve saw	Cetop 3	Cetop 3
Directional valve grips	Cetop 3	Cetop 3
Directional valve roll feed	-	Cetop 3 - proportional
Directional valve roll cylinder	-	Cetop 3
Pressure regulator rolls	-	Cetop 3 - mechanical
Directional valve stroke	Cetop 3	Cetop 3
Directional valve knives	Cetop 3	Cetop 3
Pressure regulator knives	Cetop 3 - mechanical	Cetop 3 - proportional
EX alt. - inbuilt tilt	Cetop 3	-
EX alt. - inbuilt rotator	Cetop 3	-

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Measurement system -MID



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CONTROL SYSTEM MAIN FEATURES

Specification	JOBO RS50 PreCombi	JOBO RS50 Combi
Select operation mode	F1 - stroke	F1 - F4 combi
Multi stem/ Multi grip selection	-	With rolls
Crane controls	CCD-CDC-MID	CCD-CDC-MID
Volume calculation	CCD-CDC-MID	CCD-CDC-MID
Feed to preselection	Automatic	Automatic
Select species	Six (6) preselections	Six (6) preselections
Length selection	Six (6) lengths	Six (6) lengths
Feed to preselection	Automatic	Automatic
Internal diagnostic	CCD-CDC-MID	CCD-CDC-MID

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Measurement system - CCD



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Measurement system - CCD

JOBO CAN CCD is the controller for all functions of the harvester head. The operator can fine tune functions all depending on actual oil flow and temperature. The selection of species and length preselection are simple by means of menu's and buttons.

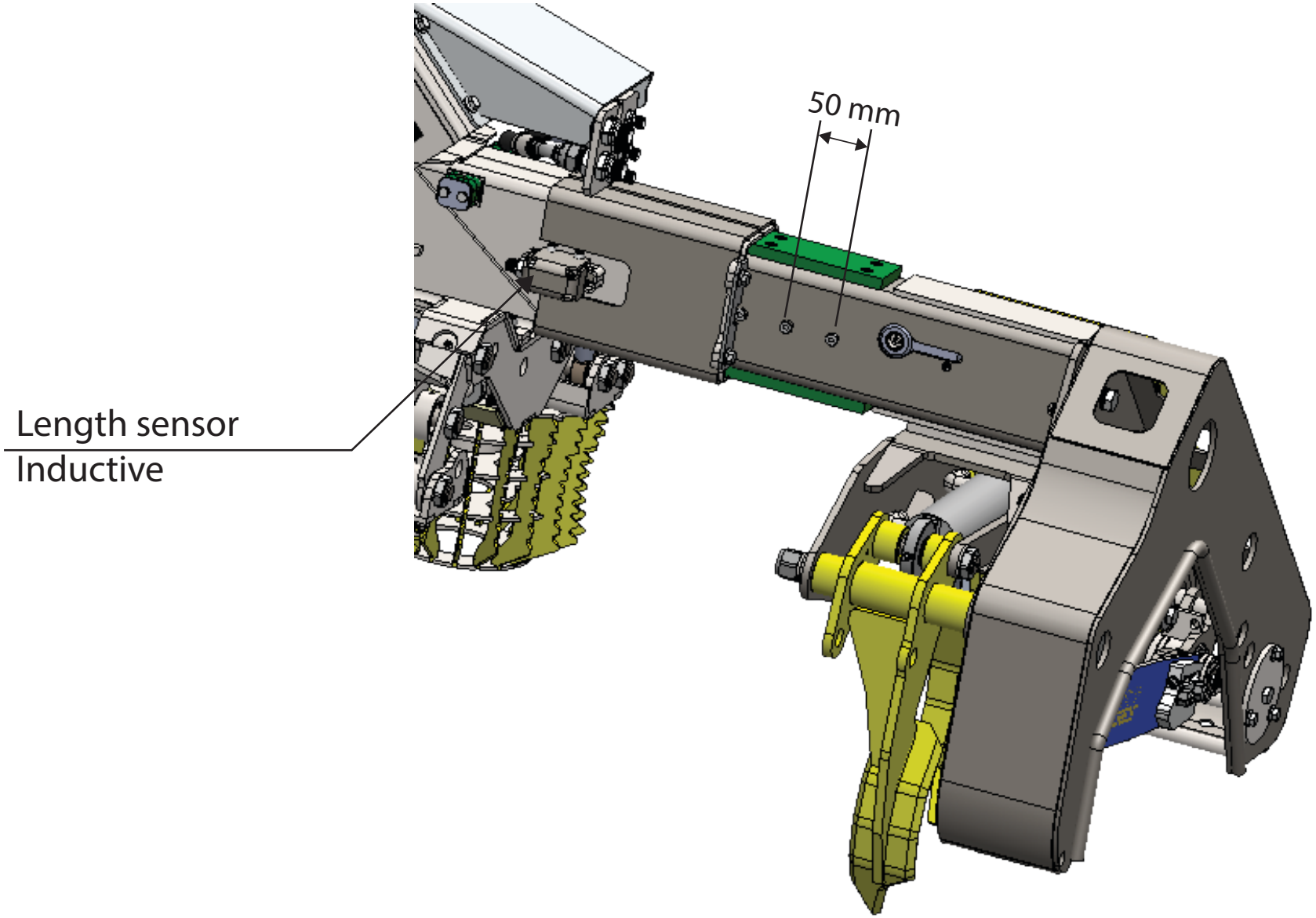
Technical features:

• Operating voltage	9 - 32 VDC
• Operating temperature	-20 - +60°C
• LCD display	3,7in QVGA
• Frame, aluminium	IP67
• Interface	CAN 2.0B
• Real time clock	

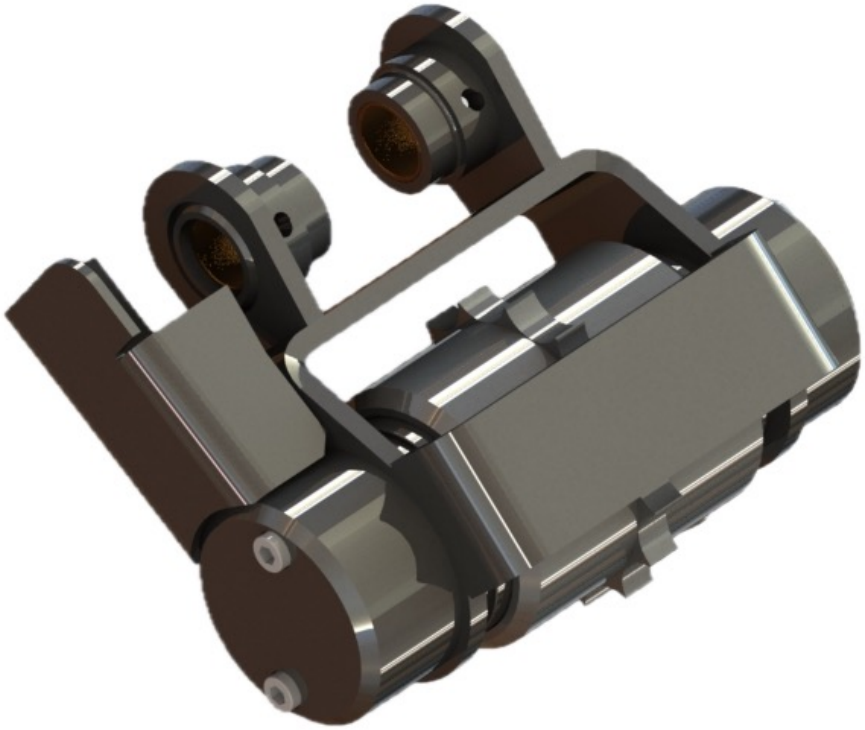
This system can be built in two separate units (as in picture) or in single unit panel. Installation space requirement is judging.

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Stroke length measuring



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Length measuring

All JOBO harvester heads include length measure taken from the stroke. Length sensor is calculating length with 5 cm intervalls. More accurate measurement can be achieved with the optional measuring wheel.

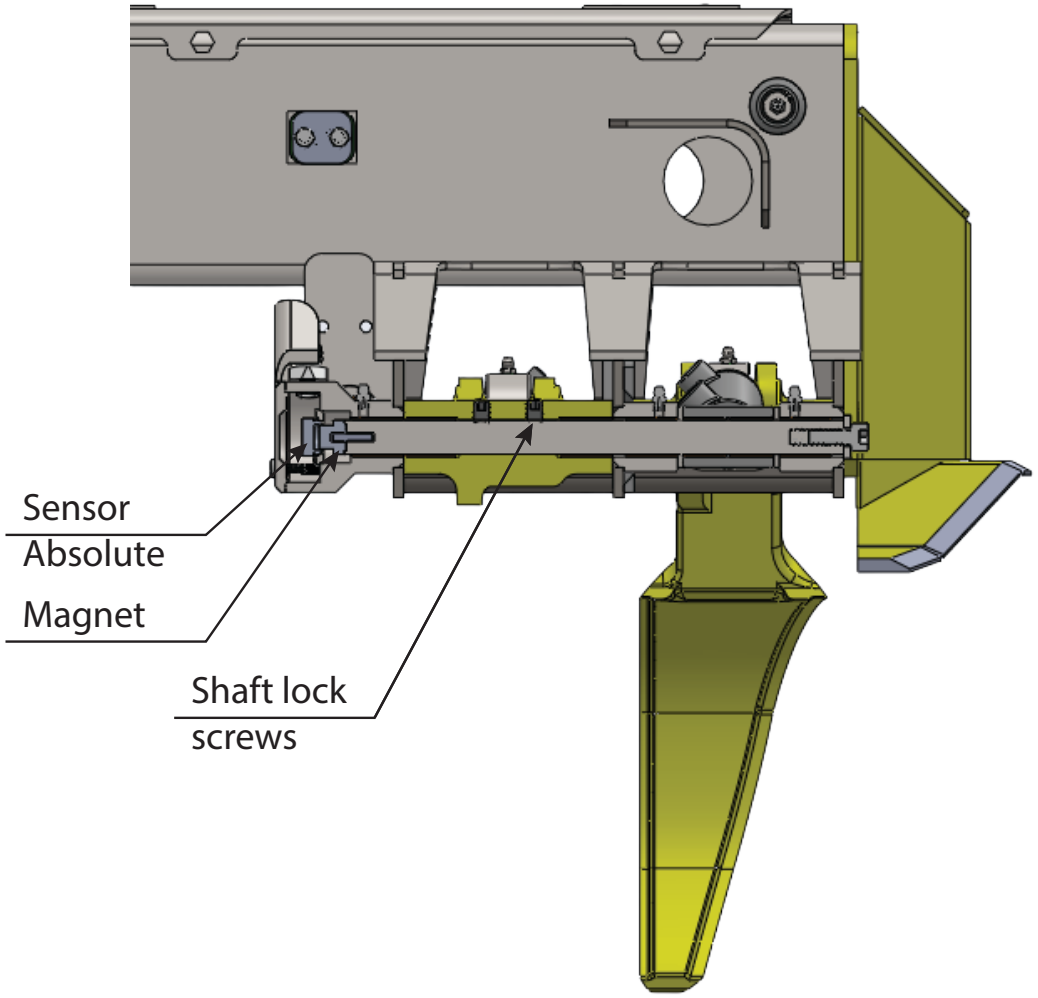
Technical features:

- Measuring wheel diam. 80mm (L=26cm)
- Spring loaded
- Magnetic (HALL) sensor, 32 pulses/turn
- Theoretical accuracy 0,7 cm

The measuring wheel is counting forward and backward as it follows the tree stem.
Measuring wheel can be retrofitted.

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Diameter measurement



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Diameter measurement

All RS50 harvester heads are prepared for diameter measuring. Measuring transducer is placed in the shaft end of left main knife. As its signal is magnetically transferred there are no moving parts making the system really reliable.

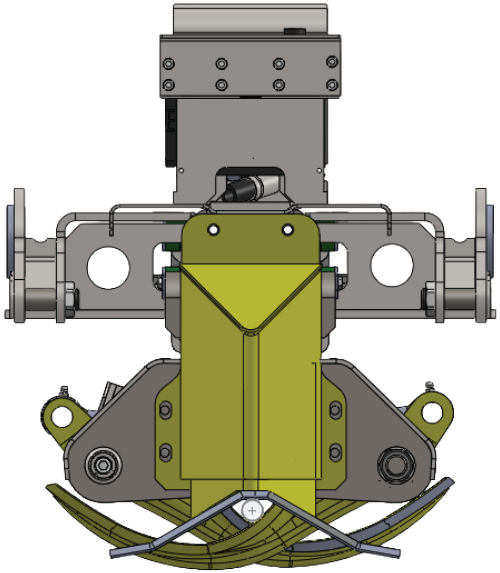
Technical features:

- Absolute sensor (HALL type)
- Magnet ø20 mm, sensing 2-4 mm
- resolution 12 bit, 180°
- Output 0,5 - 4,5V
- Operating voltage 5-30 VDC
- Operating temperature -40 - +85°C
- Protection class IP67

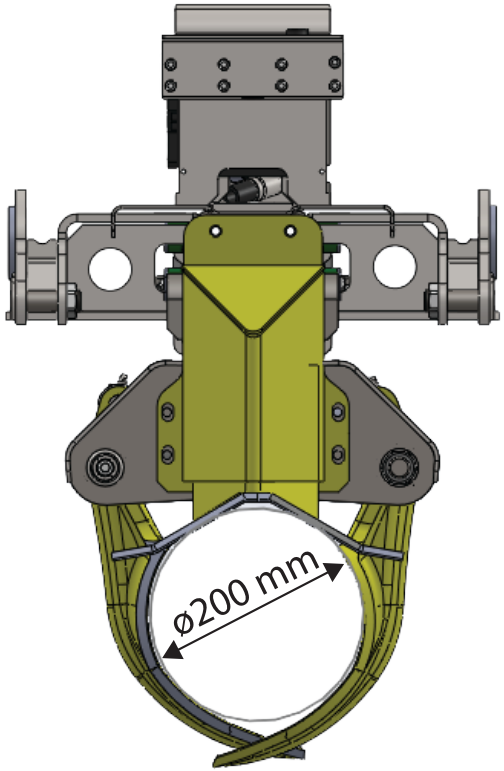
Thanks to the sensor type (absolute) knife always knows in which position it is (angle). The measurement result can be calibrated in the control program (CCD/MID).
This solution has a design protection.

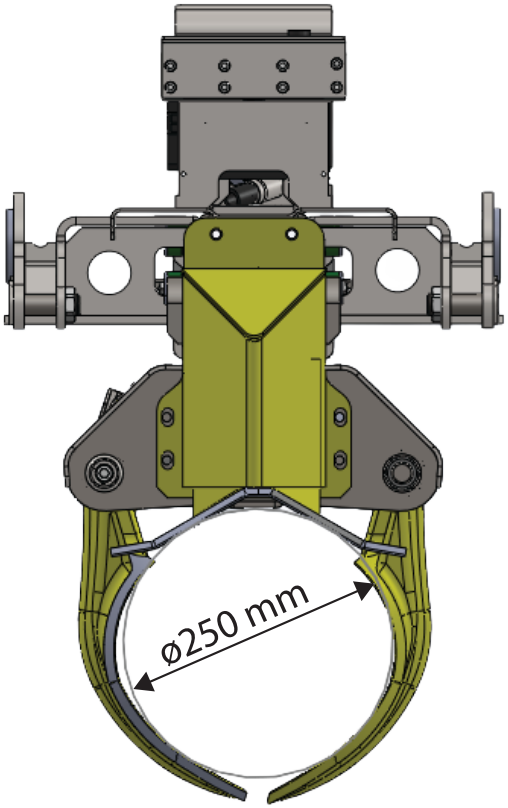
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Delimbing knives

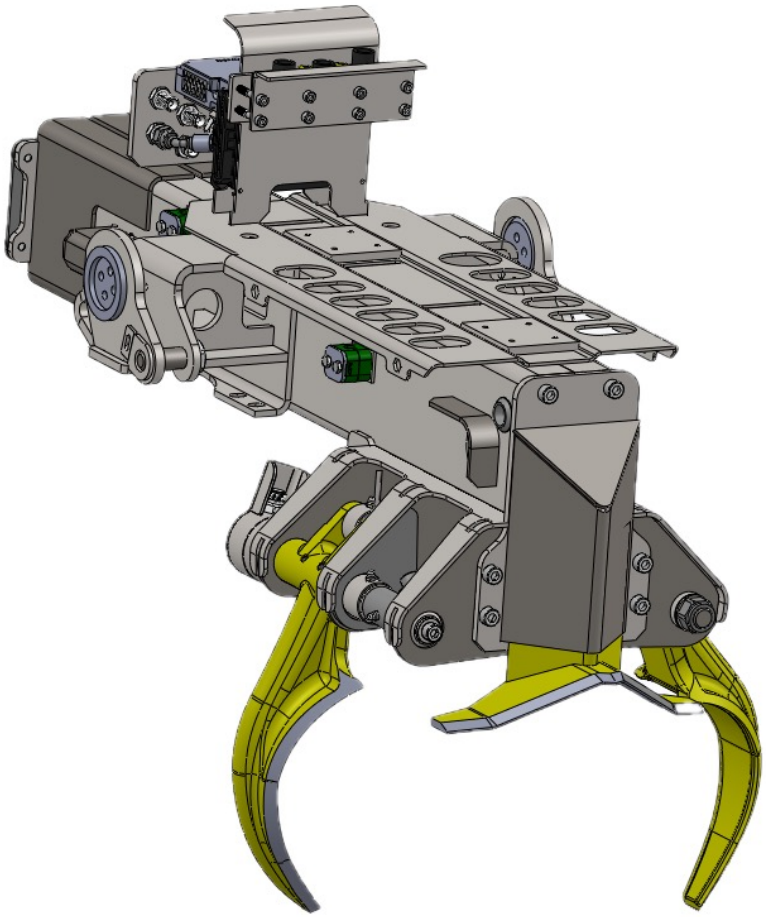


Minimum diameter 20 - 30mm





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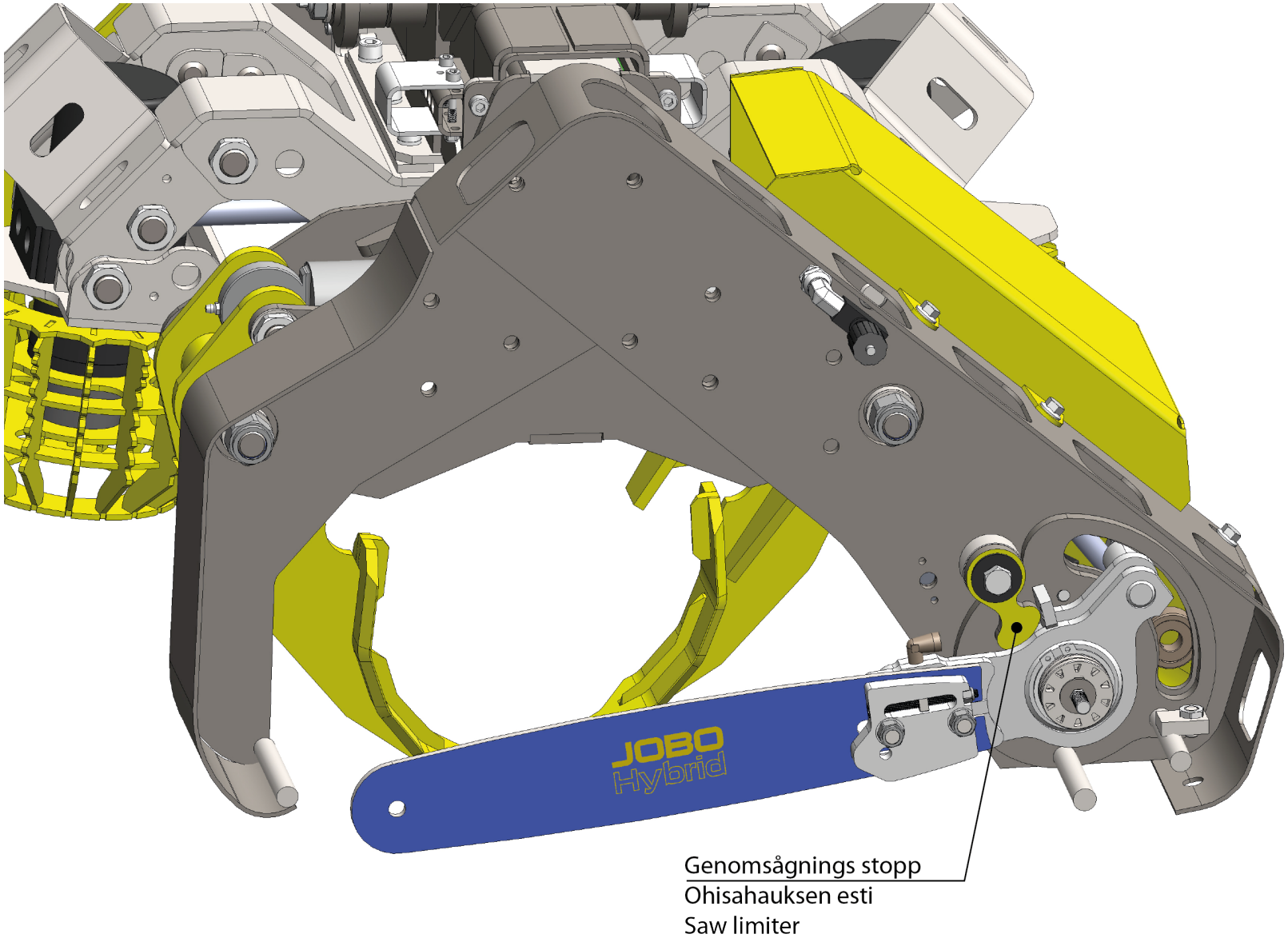


Delimbing knives

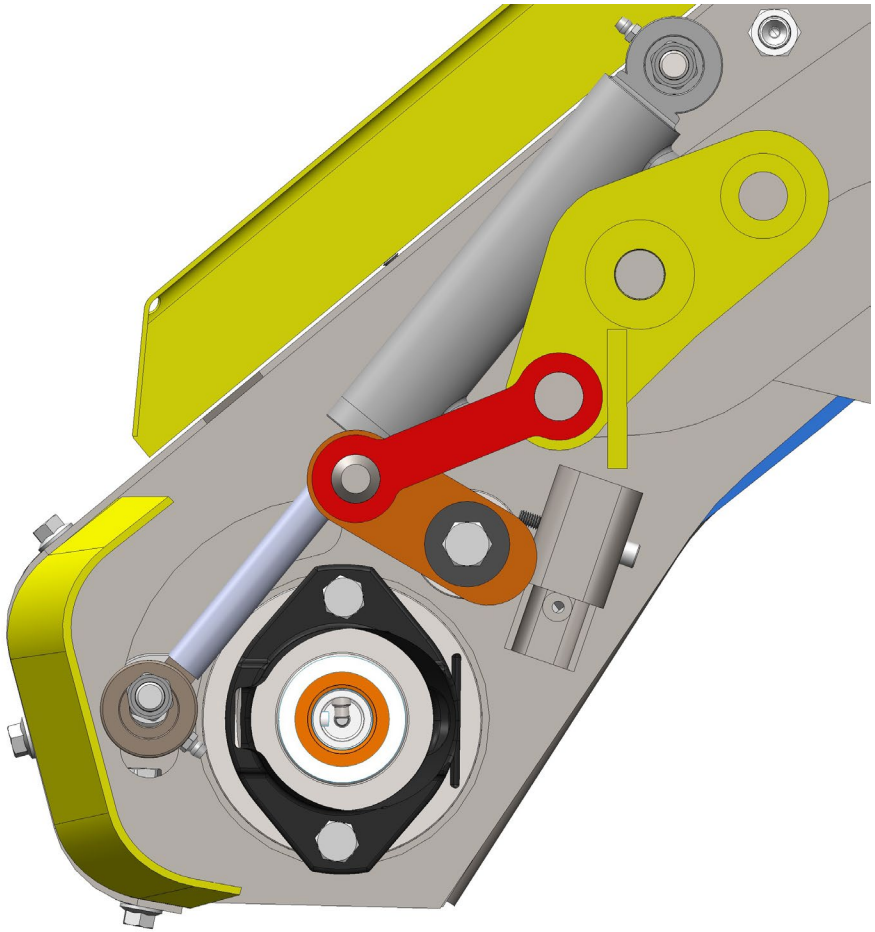
The knife profile is fitted to the optimal performance on stems of ø10 - 20 cm, but is still performing delimbing well from 25 cm down to abt. 3 cm.
All knifes are movable. The top knife is spring loaded in order to follow small bends on the stems.
All knifes are made from wear resistant (Hardox) steel. Main knifes are pressure controlled with own pressure reducing valve at abt. 120-150 bar.
The main knife cylinders (2pcs) are fix mounted which ensures minimum movement of hoses.

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Saw limter



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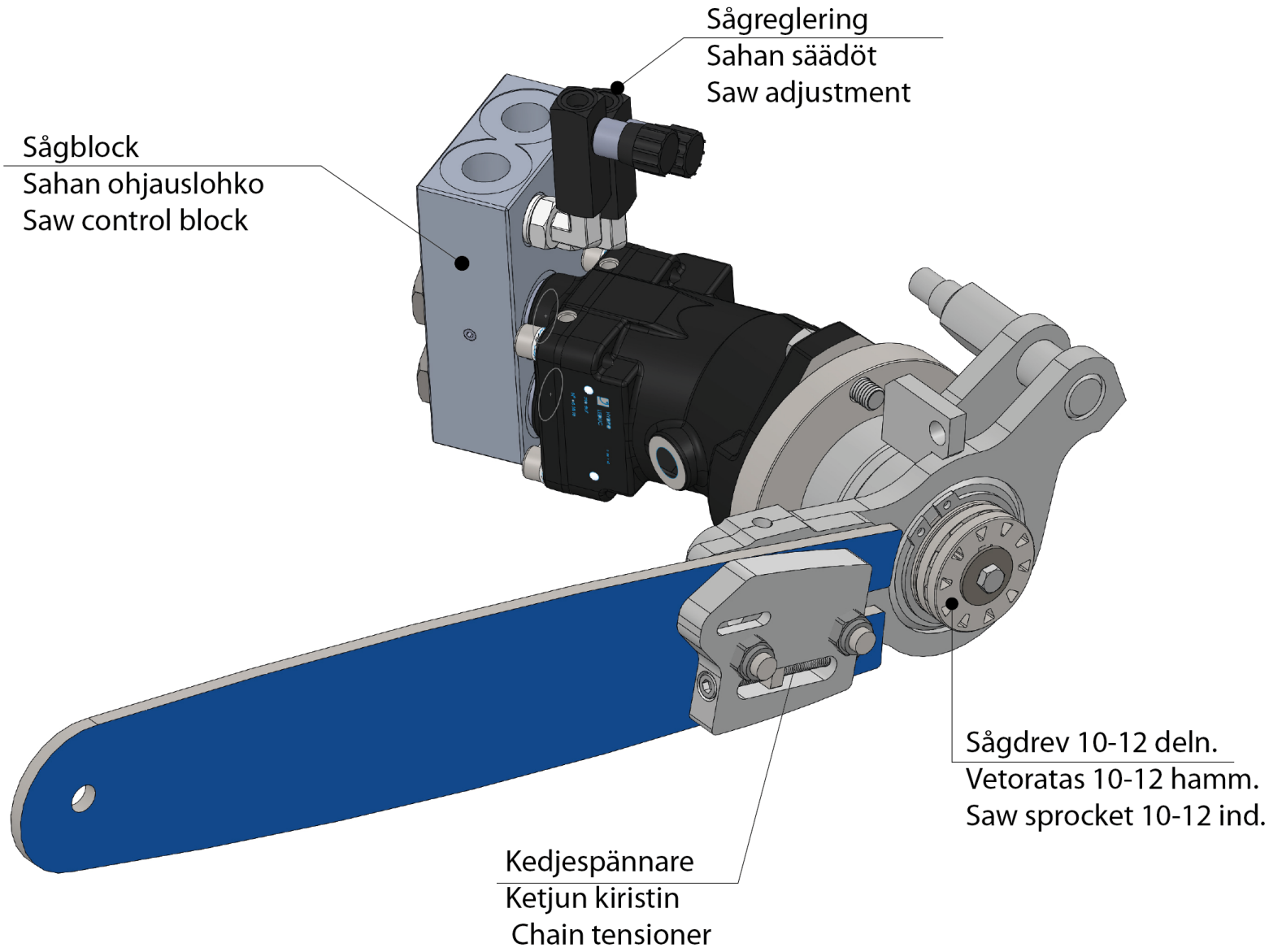


Saw limter

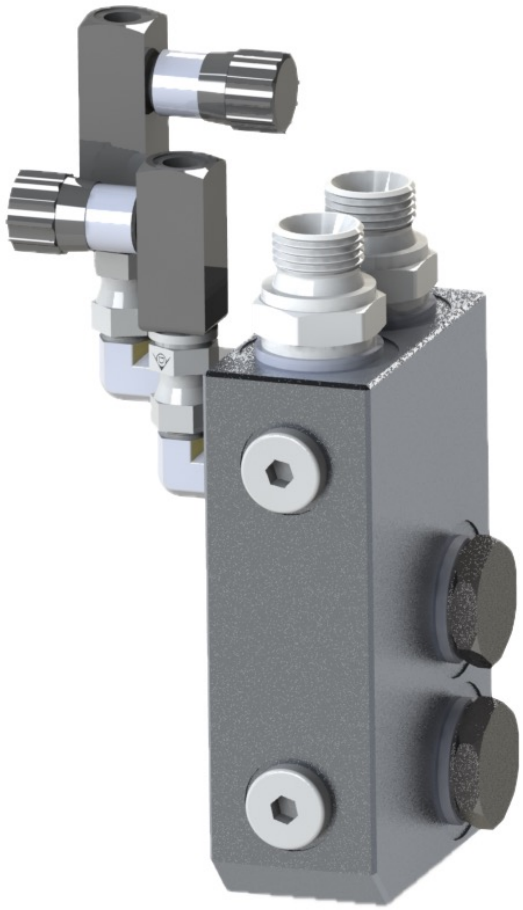
A mechanical saw limiter is standard on all ST50- harvesters. The limiter is connected to the grip movement and it is adjusted so that saw will stop at a position of abt. 1/3 of width of the saw bar.
This is most valuable function when saw bar is not visible when felling (it is mostly hard to see what is behind).
This function also minimize the risk of saw bar passing the stem and gets stuck, or it accidentally hits a stone or nearby standing tree.

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Saw control block



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Saw control block

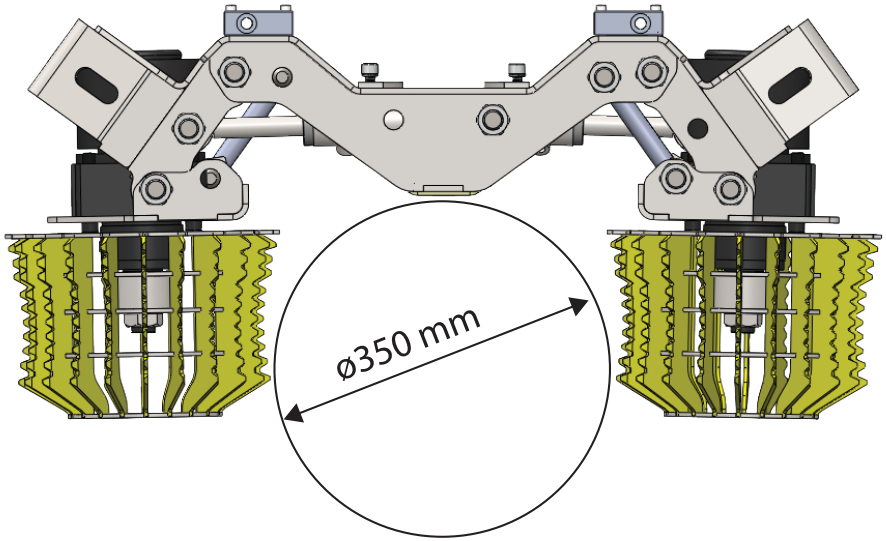
An essential function of a harvester is how the saw is controlled. The saw motor must reach full speed before it hits the stem and during sawing feed pressure should be held at optimum saw effect.
It is also very important that the return pressure is not too high as that may tension the chain or put extra strain on the saw mechanism.

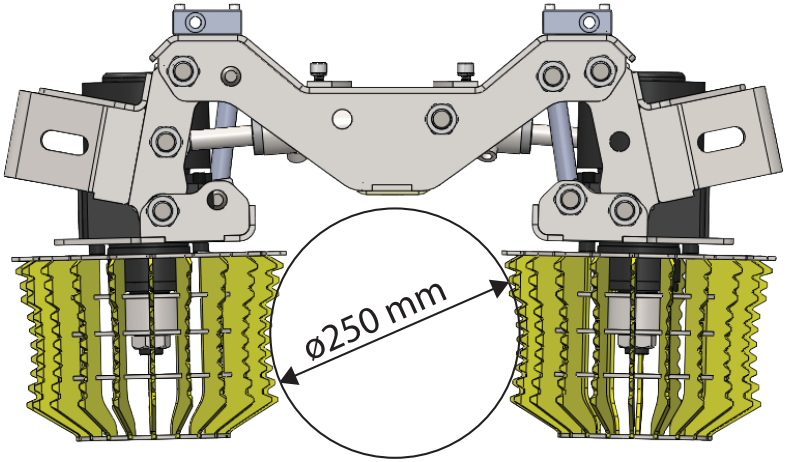
Technical features:
- Saw motor speed 6000 - 10000 rpm
- Chain speed max. abt 25 m/sec
- Power requirement 25 kW
- Feed pressure regulation
- Return pressure regulation

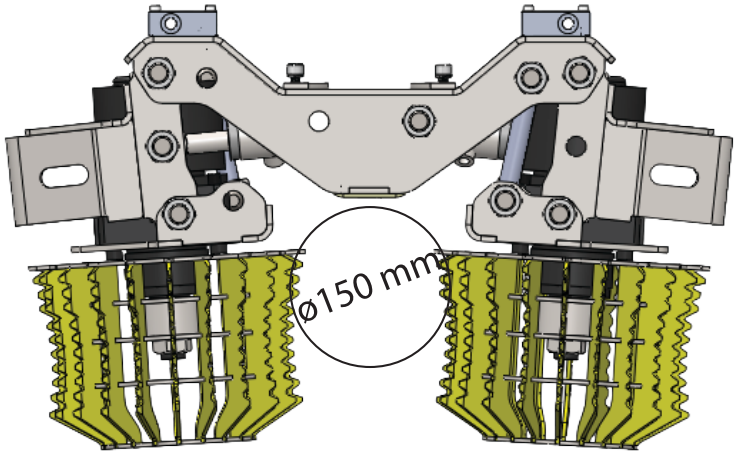
All functions are taken care of in the control block including valves and restrictors (see picture).

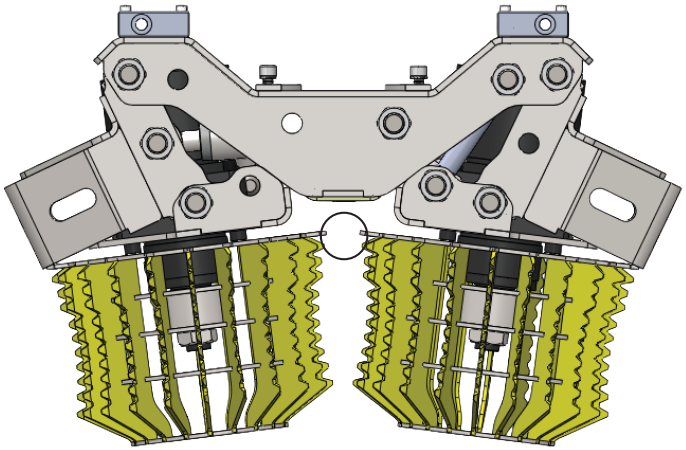
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Rollers



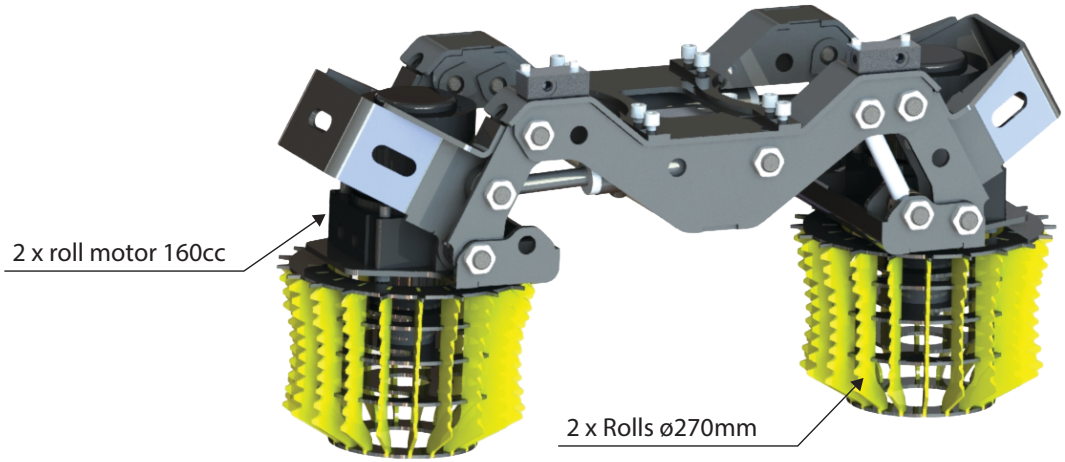






Min. diameter 50-30mm

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Rollers

In its COMBI version the RS50 is provided with welded feed rolls made in high strength steel. The light weight and open construction improves its self cleaning.
Designed to be used on trees with few branches or only light branching. A secondary function of the Feed rolls is it provides support for a heavy tree in the MultiGrip position and MultiTree selection.

Technical features:
- Roll diameter ø270 mm
- Roll hydraulic motors 2 x 160 cc
- Roll feed speed > 2,5 m/sec

RS50 PreCombi is a build which is prepared for retrofit of the roll system. All programs are as standard available.

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