

Malwa 980. A new era in the forest





The thoughts behind Malwa 980

”Operators from bigger machines finally have a machine they can feel at home in straight away, and where they can experience versatility and care of ground at a whole new level”

Malwa has enjoyed truly exceptional development since the launch of the 560 range in 2013/14. The journey from challenger to market leader in Sweden took just five years, and interest from a variety of countries has increased so strongly that more than one out of two produced machines is now sold on export markets.

Stands in other countries often differ from those in the Nordic region, distinguished by, for instance, faster growth, coarser average trunk size, more tree species and a higher proportion of hardwood. Conversations with overseas customers therefore often include requests of a slightly bigger machine than the Malwa 560 range. Malwa also serves customers in what is known as the “plantation forestry” sector, where growth is extremely rapid.

On the domestic market both forestry companies and contractors have had requests for larger Malwa machines with more powerful engines – partly to allow operation in coarser stands, and partly to facilitate handling of storm-felled and damaged forest.

With the introduction of the new 980, operators from bigger machines finally have a machine they can feel at home in straight away, and where they can experience versatility and care of ground at a whole new level.

Another development is that the shortage of timber means that more and more pulpwood is being sorted and cut as pallet-wood or small diameter logs – down to a top diameter of just 8 cm. Compared with the Malwa 560, the 980 will be more productive in second thinning with an average stem size of 0.09–0.10 Sub (Solid under bark) or coarser.



New era. Challenge accepted

The journey continues

The arrival of the 560 series challenged traditional thinning with large machines and demonstrated a much gentler and more effective thinning process that was more on the terms of the forest itself. This resulted in stands with higher timber volume and could resist windstorms better, as well as less damage to the ground from machine operation. The 980 continues the same journey.

The 980 is a stand-operative thinning harvester with advanced properties that should directly suit operators of large machines, finally giving them the chance to experience what versatility and care of ground really mean. The 560 contractors already know.

Your new workplace

Thinning means working with the future, with the objective of ensuring improved growth in a rich stand. It is not an easy task because it demands – over and above the skill and experience of the operator – a machine designed for thinning, which is efficient, secure and comfortable. Every day of the week. The 980 is built to be a workplace that dreams are made on.

Do you work in a too large machine? Then trade up to a smaller one.

It is not our intention to criticize operators of large harvesters when thinning forest. But what we are hearing more and more, and increasingly clearly is: *“The machine I’m running is far too big.”* The 980 is a big machine in every respect. But it’s a little smaller, more versatile and kinder on both ground and forest.

Ground pressure and environmental impact

Repeated track depth tests demonstrate that the 560 is superior to large machines. This also applies to the 980 which, although it is larger, spreads the weight over eight wheels. Together with 8 wheels that are 600mm wide, the total width is only 218 cm. This means that the 980 can manoeuvre easily through the forest without hurting trees or leaving deep marks in the ground. In fact, it hardly leaves any tracks at all.

Reduced fuel consumption and more efficient chain lubrication isn’t just a financial saving – they also constitute a distinctly positive environmental factor.

Thinning for pulpwood, pallet-wood or small diameter logs?

Development is moving in the direction of increasingly sorting pulpwood and sawing it in pallet-wood or small diameter logs – down to a top diameter of just 8 cm. When you perform a first thinning with a Malwa 560 or 980, you are also laying the foundations for improved earnings capacity for the landowner by guaranteeing more trunks for use as pallet-wood or small diameter logs in the second thinning.

Less diesel per cubic metre

There are several factors which determine how much fuel is required to produce, for example, a cubic metre. In addition to the size and efficiency of the machine itself, method of operation, terrain and the features of the stand in question all have a major influence. You can count on the 980 using 15–20% less diesel per cubic metre than other bigger harvesters.

52 cm cutting capacity

The 980 is fitted with a Log Max 3000T – a high-performance harvester head that doesn’t need a lot of space and is easy to manoeuvre in sensitive young forest.

Steering angle of 45°

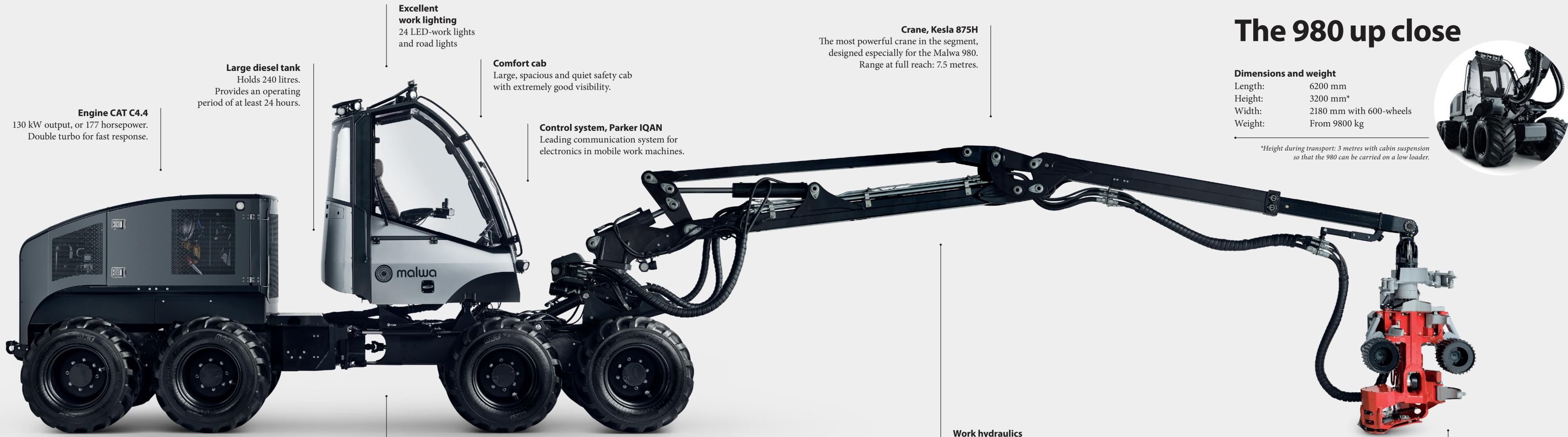
What does that mean? Well, that the 980 is a versatile machine that can turn on a dime. Or, at least, in just 5,8 m radius. This is something that really sticks out and make the 980 a highly manoeuvrable machine that operates safely on ghost trails.

More for your money

The 980 requires less capital and runs with lower costs for operation, maintenance, service and spare parts compared with other larger harvesters. And if you consider productivity, the calculation is even more positive.



“The 980 is built to be a workplace that dreams are made on”



Engine CAT C4.4
130 kW output, or 177 horsepower.
Double turbo for fast response.

Large diesel tank
Holds 240 litres.
Provides an operating period of at least 24 hours.

Excellent work lighting
24 LED-work lights and road lights

Comfort cab
Large, spacious and quiet safety cab with extremely good visibility.

Control system, Parker IQAN
Leading communication system for electronics in mobile work machines.

Crane, Kesla 875H
The most powerful crane in the segment, designed especially for the Malwa 980.
Range at full reach: 7.5 metres.

The 980 up close

Dimensions and weight

Length:	6200 mm
Height:	3200 mm*
Width:	2180 mm with 600-wheels
Weight:	From 9800 kg

**Height during transport: 3 metres with cabin suspension so that the 980 can be carried on a low loader.*



Bogie lift
Front and rear.

Steering angle of 45°
The mid joint with its hydraulic cylinders provides 45° steering.

Mechanical transmission
Smooth and responsive driving on all eight wheels.

Work hydraulics
Three pumps, independent of each other. One for the transmission, one for the crane and one for the harvester head.

Harvester head, Log Max 3000T
Well-known and recognised as one of the best on the market.
Cutting diameter of 52 cm.



”We are continuing the tradition of using our own-developed bogie, which is unique in machines of this size”

Quality and expertise in every component

Mechanical transmission

Mechanical – or, rather, hydro-mechanical – transmission translates into smooth and responsive driving on all eight wheels. We are the only company to provide this feature in this size machines.

Double bogie

We are continuing the tradition of using our own-developed bogie, which is unique in machines of this size. Probably the best and strongest on the market.

As an option, double bogie lift front and rear for improved versatility. Can be locked during processing and crane operation if the terrain requires it. Powerful centre lock with hydraulic cylinders.

Steering angle of 45°

Centre section with its hydraulic cylinders provides 45° steering, which translates into a turning radius of just 5.8 metres. Which is extremely good.

Work hydraulics

Three independent pumps that can run at maximum output at the same time without restricting the capacity of each other. One for the transmission, one for the crane and one for the harvester head.

All pumps from Bosch Rexroth.

Engine

The 980 is fitted with one of the most tested and reliable engines in the world: the CAT C4.4, which more than meets the requirements of EU Step V. We have chosen 130 kW output, or 177 horsepower, which means you can be sure of low diesel consumption combined with the most powerful engine in the segment, with double turbo for fast response. A torque curve of 750 Nm at 1400 revolutions per minute produces full power even at low revolutions. The engine hood features fully openable covers on both sides. Storage space in the engine room for tools. Clean and dry.

Harvester head

The Log Max 3000T is well-known and recognised as one of the best, most efficient and most reliable harvester heads on the market.

A powerful, dual swing damper for exact positioning of the head. Weighs 615 kg, with a maximum cutting diameter of 52 cm. Colour marking and stump treatment is available as an option, with easily adjusted dosing.

Crane

The Kesla 875H is the most powerful crane in the segment and has been designed especially for the Malwa 980.

Improved motion geometry.

The crane has a reach of 7.5 metres and can handle a Log Max 3000T harvesting head – both lifting and slewing at full extension.

Comfort cab

Large, spacious, and quiet safety cab with extremely good visibility. Rated extremely highly by test operators. You sit like a king, with all controls, displays and functions within easy reach.

The EEC climate system provides the desired heating or cooling, evenly distributed throughout the cabin. The comfortable and supportive operator's seat is available with ventilation and damping sideways, left/right.

The interior height of the cab is fully 175 cm, there is space for a co-operator and plenty of room for your legs. In addition, the cab features smart and spacious storage areas for your clothes and lunch bag, for example, with heated and refrigerated drawers. USB socket.

The windows in the cab are made of a new type of glass with excellent optical properties. Tinted glass to reduce the effect of bright sunlight.

High-class audio system.

Easy to enter, with flat floor and no threshold – easy to clean.

Protected storage space for harvester bars and chains, for example, as well as additional storage under the cab floor.

Chain shot protection

The front and side windows are made of 2 x 8 mm laminated safety glass, which meets all requirements for chain shot protection in accordance with ISO 21876:2020.



Excellent work lighting

The 980 is fitted with 24 LED work lights and road lights front and rear.

Control system

We have chosen Parker IQAN, the leading communication system for electronics in mobile work machines. Our CAN bus solution features digital fuses, which provide major benefits.

Large diesel tank

Holds 240 litres. Provides an operating period of at least 24 hours.

Nice and warm when you arrive

An app-controlled diesel heater means that you can remotely activate heating of the engine, cab and hydraulic systems.

Dark? Turn on the lights remotely

You can turn on the front light – or all the lights – from a distance, making it easy to find your machine without getting lost.

Operations reports

Just like for the biggest machines, in every respect. For example, operation follow-up, map program, value bucking, reports, etc. Information about the harvester head and crane on a separate display. All fluid levels monitored.

980 directly to your smartphone

You can link your 980 directly to your smartphone and monitor the different values, levels, and pressures. All information can also be transferred via internet to your computer(s), to most service suppliers and to Malwa's service technicians for analysis and diagnosis.

Fleet Management

Fleet Management is a smart, valuable supplement, especially for contractors who operate multiple machines in their business. It is a web-based system that provides real time information about where each and every machine is located, generates production data and details for every machine and operator in your fleet. All information can be accessed by smartphone, tablet or computer.

Service and daily supervision

Well-thought-out, easily accessible service points. Daily supervision and checks of oil and fluid levels can be performed via the same hatch. Central lubrication is an option.

Equipment levels may vary between different machines.

Welcome to the world of Malwa

We develop and construct our machines in Sweden – more specifically in Skene, which is located between Borås and Varberg, just 25 minutes by car from Gothenburg-Landvetter Airport.

A constant feature of our development work is a close working relationship and dialogue with contractors, operators and landowners. This way of working is a perfect fit for the innovative environment at Malwa, which is distinguished by inquisitiveness, ability, and a high level of technical skill.

Just like the models in the 560 range, the 980 is marked by an extremely conscious choice of technology and components from well-known suppliers. And, of course, by the fact that when it comes to the details, we enjoy a close working relationship with companies that make operators cabs and chassis parts, for example.

Malwa is an absolute leader in the development of the forestry machines of the future. One example of this is that, in consultation with RISE (the Research Institute of Sweden), we have created a full-sale concept model of an electrically powered forwarder.

You are always welcome to book a visit, to come and see how we make our Malwa machines, and to meet our designers and technical staff.

And at our facility in Skene, you can view and test drive our machines as well.

Give us a call or send us an email and we'll find the time that suits you best.

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