HW circular saw blades for sawmills

GDA HIGH-TECH TOOLS

LM Series

BLADE with RAKERS

Cutting stability, long service life and higher yield in primary wood machining



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100% MADE IN ITALY

LM Series

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Stability, yield and consistency: this is how a GDA multi-ripping saw blade works

GDA blades with rakers for multi-ripping saw blades are the result of a clear vision of quality: every detail must contribute to cutting stability, tool life and the yield of the material being processed

HW rakers: stability and cutting control

In GDA multi-ripping saw blades, the carbide rakers are designed to maintain the optimum distance between the blade body and the wood, reducing friction, overheating and deformation even under prolonged loads.
Their effectiveness depends on the precision with which they are manufactured: they are brazed, cleaned and sharpened on automated CNC lines to ensure uniformity, stability and consistent performance over time.
The result is a smoother cut, greater protection for the blade body and reliable performance even under the most demanding conditions.

Controlled tensioning for a more stable blade

Our blades are manufactured using high-precision processes and involve controlled, automated tensioning of the blade body.
This process ensures rigidity, resistance to bending and greater dynamic stability even at high speeds.
Smoother rotation means greater control, better cut quality and more consistent performance over time.



Integrated flatness control

At GDA, flatness control is an integral part of the production process.
Checks are not carried out on a random basis but on all blades at various stages of the production process.
For small to medium-sized blades, this is carried out manually, whilst for blades with a high thickness it is performed using proprietary, patented automated systems.
This ensures a perfectly flat blade body, which is more stable even at high speeds, with reduced vibration and improved cutting quality.

Benefits for the user?

- Smoother operation
- The ability to increase machining speeds where possible without compromising the finish
- A high-quality finish thanks to the stability of the blade body during machining.

> The more stable the blade, the more precise the cut. The more every detail is controlled, the more reliable the performance becomes

This is why the **LM series** combines optimised tooth geometries, brazing and sharpening of the HW rakers on automated lines, precision bores, careful selection of Ceratizit carbide and high-quality European raw materials of high quality

Rounding off the picture is the ability to develop bespoke solutions tailored to the machine, the wood and the actual working conditions

More re-sharpening cycles, longer service life

The height and length of the teeth are optimised according to the cutting thickness to allow for a greater number of re-sharpenings and significantly extend the service life of the blade. This approach improves the cost-benefit ratio and ensures consistently high cutting quality over time, delivering a superior return on investment in the long term.

Bespoke solutions for sawmills

In the world of sawmills, many applications require specific configurations. This is why GDA develops bespoke solutions tailored to the machine, the type of wood, the operating speeds and the customer's production requirements.
Customisation can cover diameter, thickness, geometry, tooth profile and other design parameters, with the aim of adapting the blade to actual conditions of use.

Less waste, higher material yield

In primary wood processing, the quality of the blade has a direct impact on the economic efficiency of the process.
Careful consideration of the blade body thickness and the teeth allows for a reduction in cutting width, minimises waste and increases the yield of finished product.
Added to this are higher feed rates and reduced machine downtime: tangible benefits that improve the plant's productivity and profit margins.





The LM series fully embodies GDA's approach to primary wood processing: a controlled process, selected raw materials and solutions designed to offer greater stability, longer service life and higher output

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LM series

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Optimised design of the tooth shape and blade body
for the specific application



Low-noise HW blade chipper series

Low-noise trimming hoggers with HW blades, comprising a light alloy body with helical-cut chipping blades, sound-absorbing rings and a main blade. Also available in special diameters and thicknesses on request.



HW special blade series, made to order

We design and manufacture special blades to customer specifications. The technical department develops the geometry and construction features according to the machine, the material to be machined and the operating conditions. For example:

- Blades with double-thickness reinforcement for heavy-duty machining and high stresses
- Blades with RT chip breakers for chip control and breakage
- Blades with geometries and cutting angles optimised for the specific application

Customisation can cover all design parameters, with the aim of providing a tool that is perfectly integrated into the customer's production process



Series with chip breaker and external rakers

High-performance blades for cutting thin strips on horizontal spindles, ideal for edge banding saws, single- or multi-blade saws and one- or two-spindle moulding machines.

- For dry softwood (moisture content up to 10%)
- Two external rakers for improved chip ejection
- Contoured chip breaker to protect the teeth when cutting knotty or cracked wood
- GDA COATING nickel coating on the blade body: improved cutting performance, reduced resin build-up and lower friction

The ideal solution for thin, clean and efficient cuts, even under the most demanding working conditions.



GDA Coating

The GDA treatment, achieved via a nickel electroplating bath, gives the blade unique properties:

- Corrosion and rust resistance
- Non-stick, with reduced friction during machining
- Reduced blade body temperature during cutting
- Lower electrical current consumption

Ideal for sawmills, construction sites and all machining applications involving high humidity, wet or encrusting materials (plastics, rubber, resinous woods, materials containing adhesives) and where a thin, low-friction cut is required. The blade body remains clean and straight at all times, ensuring maximum tool efficiency even under the most demanding conditions.

LM series

BLADE with RAKERS

1 **Micro-geometries of the teeth** *designed for high-quality cutting*

2 **Automated tensioning systems**

3 **Integrated HW rakers,** *which maintain the correct distance between the blade and the wood, reducing friction and overheating*

4 100% MADE IN ITALY



Technology that guarantees st



Precision drilling 5
High mating precision

Ceratizit KCR Carbide 6
High-end carbide teeth ensuring high wear resistance, durability and consistent performance

Optional GDA Coating 7
Electroplated nickel coating that protects the blade from wear, corrosion and resin build-up, improving chip flow

Rigorous selection of raw materials 8
Steel for the blade body and Brazetec brazing alloy from Germany, Ceeratizit carbide in special KCR grades

Flatness checks carried out on all blades using 9
and automatic machines

ability, precision and durability

LM series

BLADE with RAKERS

Complementary products for primary processing of wood

On request, we manufacture custom-designed segments, circular saw blades and Canter knives (Bongiovanni, Costa Righi, EWD, Linck, Mohringer, Primultini, SAB, Artiglio and other brands)

Circular saw blades, segments and Canter knives

Designed for the most demanding conditions of primary processing, they ensure rapid roughing and precise prism formation. The cutting edge geometry promotes efficient material removal, producing uniform wood chips and preparing the log for subsequent stages. Special steels and heat treatments ensure high wear resistance and reduced machine downtime.
The segments, or blade sections, used on the milling heads contribute to the finishing of the log profile with a clean, controlled cut through the fibres. Advanced geometries and carbide teeth ensure cleaner, tear-free surfaces. The modular design allows only worn parts to be replaced, reducing replacement costs and maintenance times.





To complete the range of circular saw blades,
GDA also offers complementary tools designed to improve efficiency, machining quality and production continuity

GDA HIGH-TECH TOOLS

GDA Tools:
technology, quality control, reliability

GDA HIGH-TECH TOOLS

Your trusted partner in cutting technology

GDA designs and manufactures high-performance carbide circular saw blades using a controlled production process, advanced technologies and a constant focus on quality. Reliable solutions, designed to offer stability, precision and operational continuity in the most demanding machining applications.

WHY CHOOSE GDA:

1. **Technical expertise**
   Specialised support for every application.
2. **Controlled process**
   In-house production and consistent quality.
3. **Proven reliability**
   Consistent performance and lasting value.

Contact and advice
GDA's technical staff are on hand to develop bespoke solutions.

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