HW circular saw blades for aluminum and non-ferrous metals

GDA HIGH-TECH TOOLS

LA Series

BLACK SILENT SIL

Stability and high-quality cutting finish for cross-cutting, end-cutting and mitre cuts



www.gdatools.com

100% MADE IN ITALY

LA Series

BLACK SILENT SIL

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

2 **Automated tensioning systems**

3 **Advanced noise-reduction technology: Black Silent SIL**
The special Black Silent SIL resin is resistant to ultrasound and high temperatures. With this solution, we absorb noise and vibrations, ensuring unrivalled cutting quality and blade life

4 100% MADE IN ITALY



5 **Precision bore**
High mating precision

6 **Flatness checks carried out on all blades**
for both manual and automatic machines

7 **Balancing**
Precision balancing for every single blade

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

Technology, balance, performance

LA Series

BLACK SILENT SIL











Meticulous processes, selected materials, rigorous checks: this is how GDA quality is achieved

GDA blades for aluminum and non-ferrous metals are the result of a precise vision of quality: every detail must contribute to the final result

This is why the **Black Silent SIL range** combines noise-reduction and anti-vibration technology, automated tensioning lines, rigorous flatness control, careful selection of the Ceratizit carbide grade and the use of high-quality European raw materials of high quality

Rounding off the picture is the ability to develop bespoke solutions to precisely meet the requirements of the machine, the material and the application

Black Silent SIL: zero vibrations, greater control

The Black Silent SIL system utilises special laser-cut slots with carefully engineered geometries, filled with a sound-absorbing resin to help actively absorb noise and vibrations.
The benefit is not merely acoustic: a blade that does not vibrate operates with greater stability, improves cut quality and reduces stress on the machine, the operator and the workpiece.
The resin used is resistant to ultrasound and high temperatures, ensuring that the treatment remains effective even after numerous re-sharpenings. Furthermore, the sound-absorbing grooves are designed not to compromise the structural strength of the blade body, even during the most demanding machining operations.



Flatness control integrated into the process

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 large diameter 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 reduction in subsequent deburring operations, resulting in less waste and a lower overall cost per part.

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Inspection and balancing process

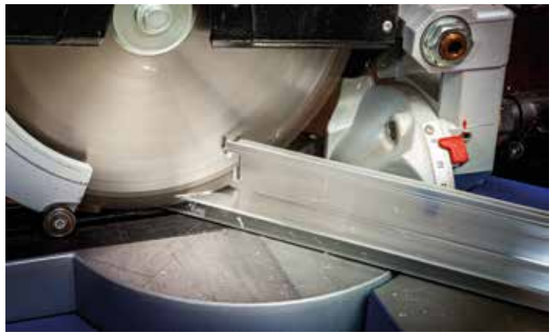
This system enables extremely precise blade balancing.
The inspection and balancing process is carried out on every single blade at the end of the production process.
This results in a cleaner cut, longer blade life, no vibration, reduced noise and less wear on your machine's components.

Selected raw materials. Superior performance

With GDA blades, quality also stems from an extremely rigorous selection of raw materials.
The **blade body** is made from steel sourced from Germany, whilst the brazing materials used to secure the teeth are supplied by BrazeTec, a German company specialising in this sector.

For the **teeth**, high-grade carbide is used, supplied by Ceratizit, a world leader in the sector. The grade used is not a generic one, but is identified through a highly targeted selection from the wide range available, to identify the most suitable choice for machining aluminum and non-ferrous metals. This approach allows the blade's performance to be optimised in terms of cut quality, wear resistance and consistent performance

A choice that delivers tangible benefits: increased productivity, reduced machine downtime, a better finish and a more competitive cost per cut.



Tailor-made solutions for increasingly specific requirements

In the aluminum, light alloy and non-ferrous materials market, every application requires increasingly specialised expertise.
This is why GDA develops bespoke solutions, designing the blade to meet the customer's technical requirements, the machine's specifications and the characteristics of the materials to be machined.

Customisation can cover a wide range of design parameters – from the thickness of the blade body to the geometry of the cutting edges, right through to the diameter and cutting angles – with the aim of adapting the blade to the actual conditions of use.



The more stable the blade, the more precise the cut

Black Silent SIL is the most advanced embodiment of GDA's approach: a controlled manufacturing process, selected raw materials and solutions designed to deliver superior results when cutting aluminum and non-ferrous metals

GDA HIGH-TECH TOOLS

GDA Tools:
technology, 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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