

EUROLLS Carbide

**Hard Metal, produced in-house,
tailored to your needs.**

At **Eurolls**, we manufacture **tungsten carbide** components through advanced pressing and sintering processes, controlling every stage of production: from **powder selection** to the **finished component**. This approach allows us to ensure **consistent quality, high performance, and maximum design flexibility**. Thanks to dedicated pressing and sintering facilities, we develop high-performance materials and transform them into concrete solutions for industry.



From powders to the finished component

Our production process is based on a simple principle: **every detail matters**. For this reason, each stage is managed in-house and optimized to achieve **controlled microstructures, high density, and consistent performance over time**.

Powder selection and preparation

We start from carefully selected and controlled tungsten carbide powders, with particular attention to **chemical composition and particle size uniformity**, key factors for the final material performance.

Pressing

Using **state-of-the-art presses**, the powders are compacted into dies specifically designed according to the component to be produced.

This is where the material takes shape, ready to develop its final properties.

Sintering

Sintering is the core of the process. In **controlled atmosphere** furnaces, the material is brought to high temperatures, transforming the pressed “green” part into a dense, compact, and mechanically stable body. In this phase, **hardness, wear resistance, and structural integrity** are developed.

Precise **control of time, temperature, and atmosphere** allows us to achieve **homogeneous microstructures** and repeatable performance, even for highly demanding applications.

One process, many solutions

Thanks to direct control of the entire process, we manufacture a wide range of hardmetal products, including:

- Tungsten carbide rolls
- Rings and special components
- Dies
- Cutting blades
- Custom-made components according to customer drawings

Each component is designed to ensure **durability, reliability, and consistent performance over time.**



Beyond standard products

We do not limit ourselves to producing standard catalog items.

Our technical team works closely with customers to **analyze specific applications**, evaluate new geometries, and develop **special tools** based on real production needs. Eurolls can supply **fully finished components according to customer drawings**, thanks to an in-house department dedicated to **tungsten carbide finishing** through precision **grinding** operations.

The company is also independent in the production of **diamond tools**, a key factor in ensuring accuracy and consistency in finishing processes.

Upon request, we can also supply **sintered blanks or semi-finished parts**, as well as **large-size components**, always maintaining high quality standards.

Whether **optimizing an existing process** or **developing a new solution**, Eurolls is a partner with the know-how and technologies to transform a requirement into a **high-performance hard metal component.**



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