



**CIRCULAR  
ECONOMY**

HARD METAL  
RECYCLING

# WHY RECYCLE HARD METAL?

## 1 IT'S GREAT FOR THE ENVIRONMENT

By recycling Hard Metal and repurposing the regenerated raw material into a new production cycle, we are contributing to **reducing the exploitation of limited natural resources**. This in turn helps reduce the consumption of considerable quantities of energy, as well as the negative effects of air, water and soil pollution stemming from the intensive mining industry. Unlike other recycling plants that require the use of chemical additives and particularly harmful toxic substances, OMCD Group uses a carbothermal recycling process. This process has a **reduced environmental impact** compared to any other technology currently in use.

## 2 YOU WILL GAIN FROM IT

After utilizing Hard Metal the law states that only authorized companies, which come with significant costs and complex bureaucratic procedures, can deal with its transport and disposal. The criminal and administrative liability which you would expose yourself to with inappropriate conduct, could have a negative impact on your company. We not only relieve you of these tasks by taking care of the collection free of charge and providing you with our advice regarding regulations, but we also offer you a concrete economic return: **a price reduction on your next purchase of finished products**.

Furthermore, eco-friendly culture is ever expanding and good practices that reflect respecting the environment and sustainability are recognized and rewarded by the market. By letting your customers know that you are contributing to the circular economy, you will also benefit in terms of company image.

## 3 YOU GUARANTEE CONTINUITY OF SUPPLY

Thanks to your Hard Metal scraps, OMCD Group can limit the procurement of virgin raw materials, thus freeing itself from the production policies and monopolistic intentions of the countries that own the mineral deposits, as well as other multinationals in the sector. By guaranteeing us **autonomy of supply**, you also guarantee yourself a continuity of supply of finished products.

## 4 THE RECYCLED POWDER IS OF THE HIGHEST QUALITY

Starting with clean scraps and using a process without additive chemical elements, our recycled powder is made up of only carbides and cobalt. It is the best raw material to be reintroduced into the production cycle in order to guarantee the absolute quality of our sintered products.

#### ADVICE

on regulations and on management of the bureaucratic practices of registration and disposal, to which the producers of Hard Metal waste must comply.

Possession of the **NECESSARY AUTHORIZATIONS** for transport and storage of Hard Metal waste.

**ADR compliant transportation** at our expense with authorized vehicles and drivers.

#### LABORATORY ANALYSIS

of scraps and assistance with interpreting results.

**DETERMINATION OF THE VALUE OF THE SLUDGE MATERIALS** based on the percentage of tungsten contained in them, which is determined by analyzes carried out by our HI.Lab laboratory.

**DETERMINATION OF THE VALUE OF SOLID SCRAPS** based on the percentage of tungsten contained in them, detected by suitable equipment.

**SUPPLY OF APPROPRIATE CONTAINERS FOR THE STORAGE** of Hard Metal scraps at your company.

# WHAT SERVICES DO WE OFFER?





## THE CIRCULAR ECONOMY of OMCD

We are very sensitive to environmental issues and so we practice a “green economy”, aimed towards implementing sustainable development by reducing the impact of our activities on the environment. The activities within this policy include the adoption of a circular economy based on the **RECOVERY OF HARD METAL WASTE**, resulting from industrial processes and products that have reached the end of their use, in order to then **REUSE THEM IN A NEW PRODUCTION CYCLE**.

In 2003 HI.Lab, OMCD's physical-metallurgical laboratory, started the first pilot plant for the recycling of Hard Metal waste. Given the qualitatively positive results, in 2009 large-scale production of **RECYCLED POWDERS** began, in a plant with a low environmental impact, by means of a clean recovery process without the use of chemicals.

Today, in order to be ever closer to the environment, HI.Lab is starting a second recycling process based on the use of biological waste material deriving from agricultural production.

The cycle of our circular economy is characterized by the **absence of intermediaries** between the recovery phase and the recycling phase, as well as between the latter and the reuse phase. Among the **main Italian producers of Hard Metal parts**, we are able to offer maximum competence in managing problems relating to the treatment of all types of special waste containing this material. For these reasons, we are recognized as **the main provider in the Italian market of secondary raw materials**.

**The greater the amount of scraps you provide us, the greater your contribution to protecting the environment!**

-  **RAW MATERIALS**
-  **RECYCLING**
-  **DESIGN**
-  **PRODUCTION**
-  **DISTRIBUTION**
-  **CONSUMPTION**
-  **COLLECTION**



# WHAT TYPES OF SCRAPS DO WE COLLECT?



EWR 12 01 03 / 12 01 21 / 12 01 99

Solid parts Wc-Co with total metal binder content  $\leq 11$  wt% and possible Ni content in the binder  $< 50$  wt%.



EWR 12 01 03 / 12 01 21 / 12 01 99

Solid Wc-Co parts with metal binder content  $> 11\%$ .



EWR 12 01 03 / 12 01 21 / 12 01 99

Carbide inserts containing TiC-TaC.



EWR 12 01 01 / 17 04 05

Hard Metal dies mounted on steel.



EWR 12 01 03

Wet powders containing emulsions, according to specifications to be agreed upon.



EWR 12 01 18

Metal sludge containing oil, according to specifications to be agreed upon.



EWR 15 02 03

Cartridge, pocket, paper filters from dust collectors.



EWR 12 01 04

Hard Metal Powders.





The OMCD Group, headed by the Tedeschi family for two generations, is a multinational company made up of **10 brands active in the field of Hard Metal, sintered copper/tungsten and precious metals.**

Its centralized structure and **synergy between each brand** guarantees **control of the entire production process**, from the refining of minerals to the micro-finishing operations.

Technical **competence**, continuous **innovation** and focus on **customer satisfaction** are just some of the reasons why every day more and more companies rely on OMCD Group as their commercial business partner.



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