

CONCRETE RANGE: The LMA Machine's method



Find out more





THE LMA MACHINE'S METHOD

LMA machine cares in **developing** equipments that are perfect to work with concrete and others floors materials, in order to offer focused and specific solutions. This means not only an equipment suitable for generic requests, but a range of equipments, chemical products, diamond tools and accessories which are **unique** and made **for specific requests of customer**.

- We **plan, develop** and **realise** systems for grinding and polishing industrial, commercial and civil surfaces.
- We offer technical solutions that are suitable for every single request in terms of performance, timing and logistic.
- We offer on site-support for the installation and the setting up of the machines.
- We **train** people in order to be able to use our equipments and products at their best in order to create a range of companies that can offer the same quality service everywhere.
- We help you choose the ideal grinder machine for your company.

The LMA machine method for grinding the concrete is made up of 5 easy and practical steps:

1

CHOOSE THE METALLIC DISC

Choose the metallic disc which suits your needs, select the range between MSA-MCD-RR-TK and choose the bush-hammer.

2

HARDEN THE FLOOR

Improve the hardness of the floor with **HARDYCEM** and grind with **TRAXOPAD** and **LUXO**.

3

FIX AND SEAL

Fix and seal the micro porosity with **FILLYCEM PROTECT** and seal the joints with **FILLY JOINT** and **FILLY REPAIR**.

4

CUSTOMISE

You can personalise the color of your floor with **CONCRECOLOR**

5

POLISH AND WATERPROOFING

Limit the permeability of water and increase the protection and the shininess with **LITHOCEM EXTRA**

OUR SYSTEM

Our goal is to mechanically polish through **diamonded tools** and **nanomolecular treatments**. Usually concrete and industrial floors are exposed to deterioration, accumulation of dust, permeability at the most common agents present in the operative areas such as grease, oil, tyre's marks and general dirt. In addition, a non polished floor gives a bad image of the company.

This is why **our mechanic grinding system** and our products allow to transform the raw concrete floor into concrete floor that can be transformed polished surface which can be compared to the marble or granite floors, but **much more resistant** to wear, dirt and it can be easily cleaned.

The floor is now ready and may be **colored** with liquid pigments with our CONCRECOLOR range. It is also possible to apply the company's logo in a permanent way and in just a few steps.

We suggest the polished concrete flooring for:



GRINDING AND POLISHING CONCRETE

Steps for the treatment:

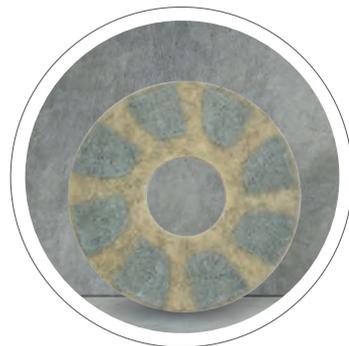
1. Preparation of the floor

Degreasing and preparation of the floor thanks to the MSA000 range of metallic discs.



2. Grinding

Grinding of the concrete floor through the use of diamonded metallic discs, pad Hybrid and resinoids diamonded discs.



3. Microgrinding

Microgrinding to **reinstate** the original shininess of the surfaces with TRAXOPAD.



4. Coloring

Customise the color of your floor with **CONCRECOLOR**.



5. Polishing

Polishing through the use of NATUREPAD and chemical products.



1. Preparation of the floor

*The preparation of the concrete is one of the first and **most important** step to remove stains, grooves and scratches.*

High performance

*The preparation of the concrete is carried out with special diamonded metallic discs working at **high performance**, as per the diamonds from the MSA and MCD range. The numbers of steps to do and the grains to apply are determined step by step depending on the condition of the surface and its hardness.*



Professional and industrial grinders

*The preparation process is carried out with **industrial and professional grinders**.*

Industrial vacuums

*These above steps are **carried out dry** with the use of industrial vacuums **connected directly to the grinder**, as per our DUSTY CLEAN range.*



2. Grinding

After many studies and test, we are proud to present the **excellent results** we achieved through our **grinding system**.



Grinding evenly

Start grinding with a dry-system using the diamonded metallic discs from the MCD range.

This step is the most important in order to achieve the best result. We suggest to **grind as evenly** as possible in order to have a levelled surface.

Harden the concrete

After rinsing the floor, apply **Hardycem** to improve the hardness of the floor and let it dry.



Hybrid 4 Step

Hybrid is a patented system that can **speed up** the grinding and polishing process of self-levelling floors.

In addition, it is possible to grind and polish grit, concrete and terrazzo. Its **new formula** allows to go from roughing to polishing in just 4 steps.



3. **Microgrinding**

Thanks to its **special formula** (which has been studied in our laboratories), TRAXOPAD discs are suitable for **restoring** concrete, marble and grit floor.

Easy to use

TRAXOPAD is **easy to use** and **eco-friendly**; it quickly removes scratches, stains and “orange peel skin” effects from concrete, marble and natural stones. All this is possible by just using a single disc **machine or a scrubber dryer**.

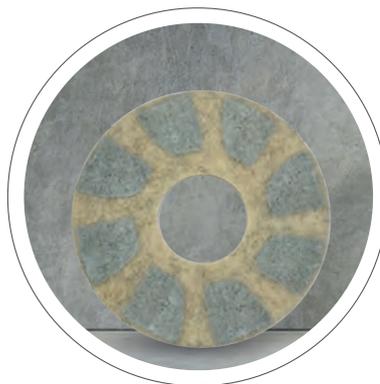


Dry or wet

TRAXOPAD can be used **either dry or wet** on concrete floors and **wet** on marbles, terrazzo and natural stones.

Flexibility

TRAXOPAD does not just have a **special design** and **flexibility**, but it is much more: it is one of the best disc with greater thickness of resin on the market. This **allows to work on more square meters** compared to other discs on the market.





4. Coloring

You can customise the floor by coloring it using **CONCRECOLOR**. After removing all the dust, **CONCRECOLOR** can penetrate better into the floor.

Evenly application

At this stage, you can apply **CONCRECOLOR** **evenly** with the use of a microfiber cloth (where needed).



Creating logos

Customization is made possible thanks to stencil and you can create logos and drawings.

5. Polishing

*Lithocem (a lithium silicate product) can transform even the **stronger surface**. It reduces the water porosity and it increases the protection and the **shininess** of the surface.*



Fix and seal

Fill the joints with Filly Surface and Filly Joint.

Mirror polishing

*Concrete floor polished with our polishing system is the most reliable and performing solution to achieve **reliability, endurance and beauty**.*



Machines recommended by us:



CHIMAERA

The only one in the world!

CHIMAERA is the first grinder in the world that has 2 operating modes: **single head** and **double head** that can work monophase and threephase at the same time. It is a versatile and unique device. The powerful inverter engines can be used in single-phase mode, which is typically used in a civil environment, or in three-phase mode, generally used in industrial environments.

Excellent product

One of its main characteristics is the versatility. this allows the machine to be **used in different environments**, from flats to industrial warehouses for grinding on marble, concrete and all kind of floors.



Tecnologia 4.0

Remote control is available with **monitor PLC 7"** for the supervision of all the procedures for **4.0 industry**.

BRUTALE 48

Small but powerful

Brutale 48 is the smallest grinder from the BRUTALE range. The **third-head** gear plate with 3 discs of 200mm in diameter makes this machine perfect for grinding and polishing from small to medium size floors made of concrete, marble, granite, terrazzo. It also used for removing resin and for preparing floors.



It is easy to drive and to move thanks to the ergonomic folding handle. The controller on the dashboard allows to the operator to control the processing and it maintains the stability during the grinding process. Our three-head grinders do not use any chemical product, either they do no waist drinking water.

BRUTALE 48 can be **dismantled and folded in just a few steps**, so that transport and storage can be optimized. This practical and fast dismantling system allows to be faster when maintenance jobs have to be done.



LEADER MACHINE



Anti-Shock System

Equipped with an **anti-shock frame**, the process is made easier for the operator.

Professional grinder

This is our bigger professional grinder machine of our range, and the first that has been manufactured from LMA. **Motor and reduction gear become one body with the frame** and this allows more stability and an easier use. Thanks to the **powerful 4Hp motor** and to the gear plate, the grinder is suitable for grinding and preparing marble, concrete, granite, terrazzo and natural stones civil and industrial floors.



Gear plate becomes one body together with the machine

The practical clutch of the **motor connected to the gear plate** allows to **get rid of all the vibrations** during the process, differences of level on working surfaces and minimise electric overloads.



MONSTER MACHINE

Lightweight and easy manoeuvrability

The MONSTER MACHINE is a **multifunctional grinder** with GEARPLATE, good for **levelling, grinding and polishing** of civil floors of different materials, such as concrete, marble, granite and natural stones; it is also good for removing resins, paints and adhesives.



Innovative head overturning system

A practical head overturning system that helps to change tools in an easy way.



Practical and quick unfasten system

The quick unfasten system allows to split the grinder in 3 parts: handle, engine and planetary gear. Not too heavy so it is easier to carry and to load and unload without efforts.

HANDLE
ENGINE
PLANETARY GEAR

DUSTY CLEAN

Industrial vacuum single and three phase

Compact design, sturdy and easy to carry thanks to its back wheels.

Provided with PLUG-IN accessory for connecting with power tools.

LMA MACHINE offers different solutions for different type of dust that has to be vacuumed, such as dust coming from grinding concrete floors, solid bodies and lightweight materials.



Automatic or semi-automatic cleaning system of the filter through vibrations which allow a constant cleaning of fine dust. This device makes them the best **vacuum for fine dusts** like those coming from grinding machines with planetary gear system.

The machines can be provided with a **quick unfasten system** of the stainless-steel tank for an easy emptying of the vacuumed dusts.



Find out more



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