

LAMINA
TECHNOLOGIES



COMPANY PROFILE

THE COMPANY



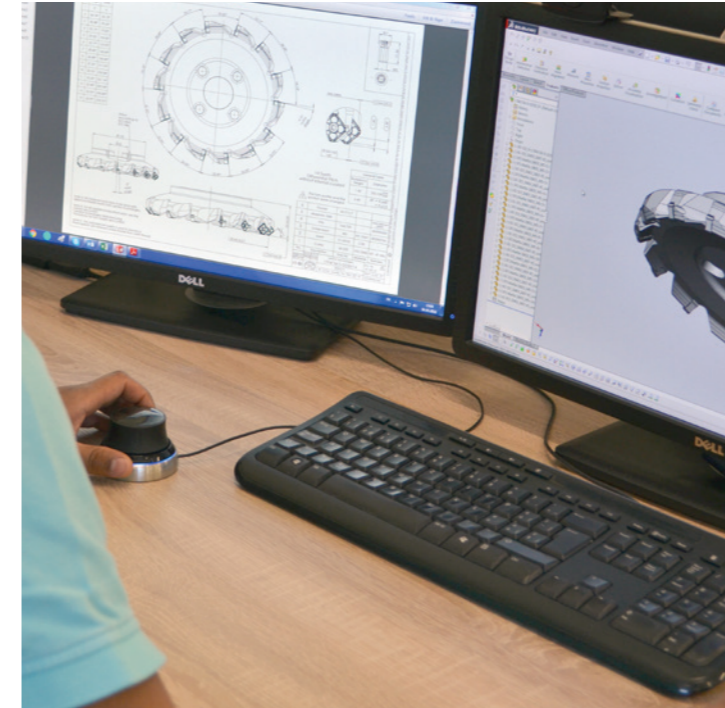
SWISS QUALITY MANUFACTURING

Lamina Technologies is a manufacturer of carbide cutting tools specializing in indexable milling and turning inserts in sub-micron grades and PVD and CVD coatings, cutters and solid carbide end mills.

All production processes of our carbide products are done in-house to ensure the highest, consistent Swiss quality.

Lamina's factory, located in Yverdon, Switzerland is equipped with advanced production machines, operated by experienced specialists.

RESEARCH & DEVELOPMENT



Since its foundation, Lamina has focused on research and development with the goal to ensure continued innovations in coatings and substrates.

Our team of expert material scientists work with advanced and modern equipment to continue development of Multi-Mat™ products as well as designing advanced tool holders and cutters for optimal use of our carbide products.

The combination of research, development, and extensive in-house test runs guarantee a maximum performance level of our product families and high compatibility of our reversible cutting inserts with other tooling systems.

Lamina continues investment in R&D with the aim to offer users comprehensive yet simple solutions to gain increase productivity while reducing costs on cutting tools.

PRODUCTION

Swiss Precision and Automated Production

1. POWDER



- Quality control
- Chemical Analysis

2. PRESSING



- Verification of the indexable insert density after compression
- Visual control
- Our inserts are pressed to size to high accuracy
- High plastic deformation resistance

3. SINTERING



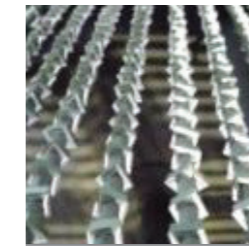
- Laboratory controls
- Intermediate measurements

4. EDGE PREPARATION



- Special edges preparation
- Cutting edge radio control

5. COATING –UNIQUE PVD COATING PROCESS



- Adhesion control
- Coating thickness control
- Wear resistance control

6. PACKAGING AND LABELING



- Visual control (100%)
- All production batches are tested after coating

THE LAMINA ADVANTAGE



THE CHALLENGE

- Operators spend time choosing which dedicated insert to use for each job.
- Significant machine downtime, due to the need to change inserts for each job.
- Often this leads to incorrect machining parameters being used losing time and production efficiency.
- Suppliers often don't have the "right" tool and end up selling what is most popular, not what is most efficient.

THE LAMINA SOLUTION



- The largest reduction in production costs is achieved by reducing non-productive time!
- One insert can be used for multiple materials providing global optimization by ensuring your machine works full-time.
- Optimized parameters with less time trawling catalogs tools that will be used on one small job, then languish in the tool drawer never to be used again.
- Less machining down time needed to change inserts and reconfigure machining parameters.
- Lamina tools work as good as, or better, the competitor's dedicated inserts.

MULTI-MAT™ CONCEPT



WHAT IS MULTI-MAT™ CONCEPT ?

The Multi-Mat™ Concept was conceived and developed by Lamina Technologies as a consequence of its understanding of the complexities faced by companies in the machining industry.

Through innovative sub-micron grades and advanced coatings, Lamina has developed a line of products that have excellent performance in wide variety of materials.

Whether you need to machine low carbon steel, alloy steel, stainless steel, cast iron or even exotic materials like Inconel or titanium based alloys, all you need is one insert:

- Focused range of multi material inserts
- Few specially conceived grades required for all your machining needs
- Quality Swiss manufacturing
- Reasonable price



MAGIA TECHNOLOGY

WHAT IS THE MAGIA TECHNOLOGY ?

Proprietary and unique technology developed by Lamina Technologies in our research and development center in Switzerland.

Lamina's R&D team works ceaselessly to push the boundaries of cutting tool performance.

Lamina develops its own unique technologies and materials in order to preserve toughness and hardness without compromise.

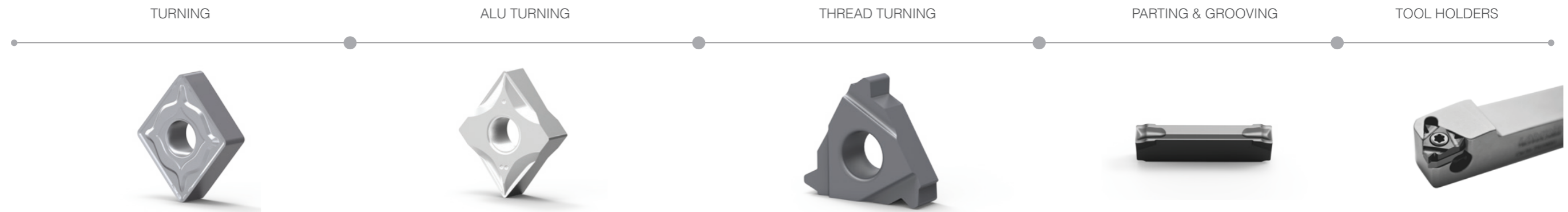
Our Magia line of products are the latest, state-of-the-art grades for advanced performance and efficiency.



PRODUCT LINE

Lamina is focused on simplifying the process of choosing the right cutting tools for the job at hand. Our range of products have been developed to provide the most flexibility. Lamina product allow operators to do more with less.

TURNING



MILLING



DRILLING





LAMINA TECHNOLOGIES

HEADQUARTERS

**Lamina Technologies SA
Switzerland**
Rue Pythagore, 2
1400 Yverdon-les-Bains
Switzerland
T. +41 (0)24 423 55 55
info@lamina-tech.ch
www.lamina-tech.ch

SUBSIDIARIES

**Lamina Technologies
Deutschland GmbH**
Athenslebener Weg 33
39418 Staßfurt
Germany
T. +49 (3925) 329 277
info@lamina-tech.de
www.lamina-tech.ch

**Lamina Technologies SA
France**
15 Rue Bernard Palissy
Jeantet STJ
25300 Granges Narboz
France
T. +33 (1) 381 49 67 30
info@lamina-tech.fr
www.lamina-tech.ch

**Lamina Technologii LLC
Russia**
Office 406,
Yuzhnoportovaya str. 5, bld.1
115088, Moscow
Russia
T. +7 499 653 93 56
info@lamina-russia.ru
www.lamina-russia.ru

**Lamina Technologies
China**
Room 202, Building B
668 Hengfeng Road
Jing An District
200070 Shanghai
China
T. +86 21 2287 6501
info@lamina-tech.ch
www.lamina-tech.ch

**Lamina Technologies
do Brasil Ltda.**
Avenida Macuco, 726
Cj. 1603/1604
04523-001 Moema
São Paulo - SP
Brazil
T. +55 11 2344 7890
info@laminabrasil.com.br
www.laminabrasil.com.br

**Lamina Teknolojileri
Kesici Takımlar Ltd ti.**
Kuştepe Mahallesi Mesut
Cemil Sokak 22/B
34381 Şişli, Istanbul
Turkey
T. +90 212 292 09 21
info@laminatknolojileri.com.tr
www.laminatknolojileri.com.tr

**Lamina Technologies
Indonesia**
Ruko The Podium Mataram
A 9 Jl.Mataram,
Lippo Cikarang
Bekasi 17550
Indonesia
T. +62 (21) 2210 4851
info@lamina-tech.ch
www.lamina-tech.ch