



PRECISION IS OUR WORLD
CNC TECHNOLOGY FROM GERMANY





▼ About us

The company LANG GMBH & Co. KG, founded in 1972 at Huetttenberg, with 75 employees and managing director Thomas Kozian, represents a world-wide successful company in the field of machine tool manufacturing. At the same time LANG is a leading manufacturer of fine positioning systems. For almost 40 years now, stepper motor controls for fast and high-precision positioning processes have been developed in close cooperation with customers.

The products which are developed, produced and world-wide successfully sold by the company's own includes

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- ✓ CNC milling and engraving machines
 - ✓ Lasertechnology
 - ✓ Digitizing systems
 - ✓ Automation systems
 - ✓ CAD/CAM Software
 - ✓ and various accessories
-

In addition, LANG offers its customers an extensive range of services - as a guarantee for maximum machine availability and process reliability in production. In addition to personal on-site

service, online and hotline support helps to keep machine down-time as low as possible. The target markets and applications for LANG products are

-
- ✓ Automotive industry
 - ✓ Minting- and toyindustry
 - ✓ Tool- and mould industry
 - ✓ Relief engraving
 - ✓ Security papers
 - ✓ Jewelry industry
 - ✓ Medical technology
 - ✓ Print- and packaging industry
 - ✓ Digitization
-

The key competence of LANG is based on the capability to offer the customer complete system solutions for his individual tasks. From the LDIGIT digitizing system to the CAD/CAM software and machines that output the generated data, LANG customers have a single point of contact that provides competent support from the idea to the finished product. The products are constantly being further developed and new market and customer-oriented projects are pushed.



microjet®

FÜR JEDEN ANWENDUNGSBEREICH EINE LÖSUNG



Die microjet® Minimalmengenschmiertechnik in der Zerspantechnik

Erhöhte Produktivität in der Zerspantung heißt arbeiten bis in den Hochgeschwindigkeitsbereich. Die entstehende Wärme an Werkzeugen und Bearbeitungsteilen muss vermieden werden, um höhere Werkzeugstandzeiten zu erreichen. Das microjet® Minimalmengenschmiersystem setzt hierbei entscheidende Maßstäbe.

Durch gezieltes und feinstdosiertes Schmieren wird die Reibung an den Wirkzonen drastisch reduziert. Die einzigartige Düsenteknik ermöglicht es dem Schmierstoff hohe Zentrifugalkräfte, welche bei der Hochgeschwindigkeitsbearbeitung wirken, zu durchdringen. Resultat: Die Schmierwirkung kann sich voll entfalten.



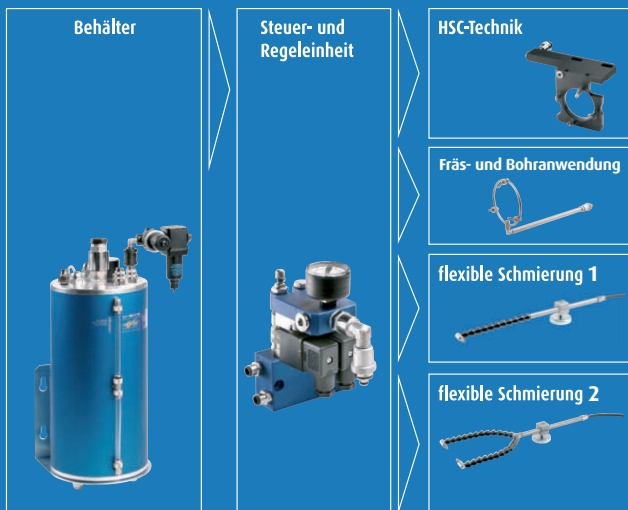
Unsere Partner sind namhafte Werkzeugmaschinenhersteller, beispielsweise:

- DMG
- DATRON AG
- KASTO Maschinenbau GmbH
- Holzma Plattenaufteiltechnik
- OPS-Ingersoll GmbH
- IMT Hochfrequenzspindeln
- Cytec Zylindertechnik GmbH

microjet®
Düsenteknologie
■ zielgenau
■ feinstdosiert
■ effizient

DAS SYSTEM

Die microjet® Minimalmengenschmiersysteme sind beliebig änder- und erweiterbar. Unser Anspruch ist: Auch für Ihre Anwendung eine Lösung.



4 Standardbehältergrößen:
MKS-G 100 MKS-G 500
MKS-G 260 MKS-G 1000
Der Behälter kann auch in einem Gehäuse eingebaut geliefert werden.

Zwischenverteiler mit verschiedenen Steuer-verteiltern.

Die Beispiele zeigen verschiedene Anwendungen.



microjet®
GmbH
Minimalmengenschmiersysteme



▼ Milling/Engraving Technology

IMPALA SERIES

The Impala Series are CNC milling and engraving machines, that have been in use since 1990 and have revolutionized high-precision engineering. Built on granite for stability, high-precision and longevity, they offer highest dynamics combined with exact positioning and repeat accuracy. Various worktable sizes and drive technologies are available – ideal for industrial applications like embossing dies, clichés, forging dies, injection molds and more.



ECOEXPRESS

Compact and equipped with LNC express control, the ECOexpress is a high-precision HSC milling and engraving system. Suitable for quick and economical production of engravings and fine milling/drilling work on various materials.



RM SERIES – RM 1200S/Y

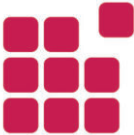
Specifically designed for printing cutting and embossing cylinders, the RM 1200S/Y machine utilizes a granite portal for high-quality results. Tailstock movement and additional Y-axis enable precise cutting on different roll lengths. All axes of this machine are driven by servo motors. It is used in the printing and Packaging industry, although in electronic and medical sectors.



TIRE SOLUTIONS – LGT-S

LGT-S and LGR-S are high-precision milling machines for engraving 2D and 3D data on tire sidewall molds. With a sturdy construction for extremely high level of stability and driven by dynamic AC servo control units, they produce top-quality molds for various vehicles. LANG's LTire software ensures seamless coordination between machine and control.



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▼ Laser technology

PULSARIS 300

The laser engraving machine Pulsaris 300 enables tool-free and non-contact machining of work pieces, whereby highly accurate engravings, rainbow effect, frosting, sharp micro text and a variety of surface structures are possible – even in deep or hard accessible areas of a work piece.

Whether hardened or not hardened steels, precious metals or different other materials, by means of laser engraving, the finest structures can be achieved, as they are not realizable with a conventional engraving cutter. In combination with further developments on in-house software solutions, highly precise results with excellent surface qualities and short production times are obtained.

Like all machines of the Pulsaris-series the latest version of the Pulsaris 300 also has a temperature-stable and vibration-damping granite basis. This enables dynamic processing of very different materials with highest precision for excellent surface quality.



▼ Digitizing systems

LDIGIT EXPRESS

The universal unit to scan and digitize 3D free-form surfaces and relief models, for ex. for producing coining dies. It is perfectly aligned to highest scan demands. Due to high dynamic linear motor axis, a Y-Z-portal to fix the sensor system as well as the latest version of the LANG software package Relief-Designer Scan, it's possible to execute the most complex digitization within the shortest possible time. The in-house developed positioning control LSTEP express, integrated in the system, enables in combination with the linear motor axis a quick and trouble-free scanning with a max. acceleration of 10 m/s². The newly integrated Micro-Epsilon laser system is fast and accurate. A scan speed of up to 800 mm/s depending on scan resolution is possible. The activation is controlled via a PC with innovative and user friendly touch operation. Breadboard bore holes in the table offer highest flexibility when clamping the models.



▼ Positioning Systems

For almost 50 years, LANG has pioneered step motor controls, with the micro step being a crucial development. These controllers handle 2- and 3-phase stepper, servo, linear, and DC servo motors, ensuring fast and precise positioning. The product range includes coordinated components, accessories, and in-house software.

LSMART EXPRESS

One controller unit, many possibilities! LSMART express features an intelligent master and four powerful drives, delivering continuous output power up to 400 W per axis. With market-leading microstep resolution, it operates 2- and 3-phase synchronous motors, providing vibration-free, dynamic movements. The controller, available in various formats, offers flexibility and easy integration into custom software environments. LANG controllers are also available as OEM devices with the clients logo.

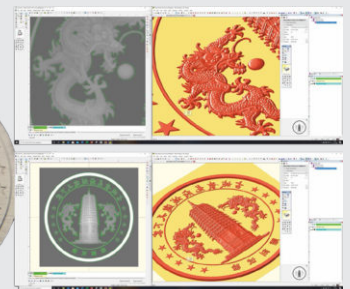


▼ LANG Software

Unleash your ideas with LANG Software! Our unique programs support idea realization, offering flexibility in combining machining strategies to meet production requirements. The user-friendly interface and online assistance reduce production costs and processing time, enhancing productivity. All LANG software products are compatible, providing a high level of creative freedom.

CAD/CAM SOFTWARE - CAD+DESIGN

A comprehensive 64-bit software package, CAD+Design combines LERgoCAD and Relief Designer, allowing simultaneous interaction. Changes in one program automatically reflect in the other, eliminating the need to save and open LG3 files separately. This time-saving feature minimizes errors and enhances user efficiency.



- ✓ Wide range of motor spindles for a wide variety of applications
- ✓ Main supplier for the dental market
- ✓ High-precision spindles for engraving
- ✓ Powerful spindles for die and mold industry
- ✓ Precise grinding spindles, e.g. for glass processing
- ✓ High-speed PCB spindles
- ✓ Robust spindles for wood and aluminum processing
- ✓ Complete systems from one source

Jäger
High Performance Spindles

Nakanishi Jaeger GmbH
Hessen, Germany

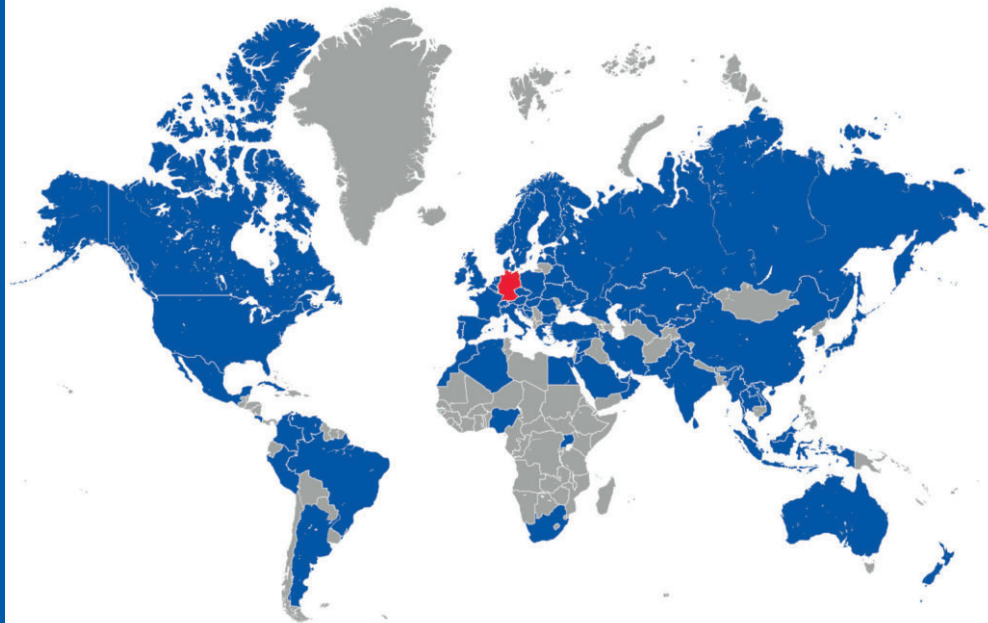
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