Your expert in workholding
and machine tool automation.
LANG
TECHNIK

simple.
gripping.
future.

This is LANG!

Made in Germany – at home worldwide

LANG Technik has over 40 years of experience in machining. We started out as a contract manufacturer, but since 1997 we have been developing our own product solutions, always true to the motto "Made in Germany". Since then, numerous patents and trend-setting innovations have followed. Today, our family business is one of the global market leaders in workholding and automation technology. Our stance of "Made in Germany" strongly encompasses our deep belief of delivering consistent, high quality and reliable solutions to our customers around the world.

THIRD-GENERATION FAMILY BUSINESS

EXPERTISE

Workholding and automation for the machining industry.

INNOVATIVE, FUTURE-ORIENTED PRODUCTS

MAIN PRODUCT GROUPS

Zero point clamping

Workholding

Automation

GLOBAL DISTRIBUTION NETWORK

ESTABLISHED IN 1982

LANG Technik GmbH

LANG Technik France SAS

LANG Technik USA Co.

LANG Technik Schweiz AG

PIONEERING INDUSTRY SOLUTIONS

SOLUTIONS FOR ANY APPLICATION

Companies of all sizes, from 1-man-operation to global players, from various industries trust our vast experience and innovative strength.

→ Engineering → Medical → Aerospace → Automotive / Racing → Power Generation → Defense → Food Industry → Precision Engineering → Schools → Universities → Research Institutes → and many more

innovative. original. pioneering.
Everything revolves around your workpiece

We at LANG Technik are aware of this and have designed our **workholding technology** to provide you with the ideal conditions for milling your perfect workpiece. No matter the shape of the component or the stage of machining, we have a solution for you. Cuboid, cylindrical or round. First or second clamping operation – often your workpiece can be completely finished in a single clamping operation. From the machining of raw parts using stamping technology as today's benchmark in the industry to the finished part. From delicate components to large plates. Our workholding solutions cover every need. Another advantage: the modular composition of our systems. With LANG Technik, you are guaranteed cost-effective manufacturing to produce your perfectly finished workpiece.

The processes around the actual machining are also very important to us. If you know us, you know that we make our products to be easy and fast. Setup times play a crucial role for us and our goal is to keep them as low as possible. Not only for our own production, but also for you so that you can get more out of your milling machine and let the chips fly. That's why we have quick clamping and **zero point clamping systems** that can be used universally and are suitable for almost every machine table or automation pallet.

Speaking of: **Automation**. This is your biggest key for more efficiency and a decisive factor for your competitiveness. We are also excellently positioned in this area because our automation systems are also universally applicable. They are easy to use, give you maximum flexibility in production management and are also attractively priced. More output, shorter production times, better prices. Our automation systems are your production boosters.

Explanation of symbols

cylindrical parts

cuboid parts

pre-machined parts

A automation-ready

P stamping technology

WORKHOLDING

1. OPERATION

- A Makro·Grip® P
- A Makro·Grip® Ultra
- A Vasto·Clamp
- A Makro·4Grip P

2. OPERATION

- A Vario·Tec
- A Profilo
- A Avanti
- A Contour Jaws
- Makro·Grip® Ultra
- A Vasto·Clamp
- A Profilo
- A Avanti
- A Contour Jaws
- Preci·Point
- Makro·Grip® Ultra
- A Profilo
- A Avanti
- A Contour Jaws
- Makro·Grip® Ultra

ZERO POINT CLAMPING SYSTEM

QUICK CLAMPING SYSTEM

AUTOMATION

CHIP FAN

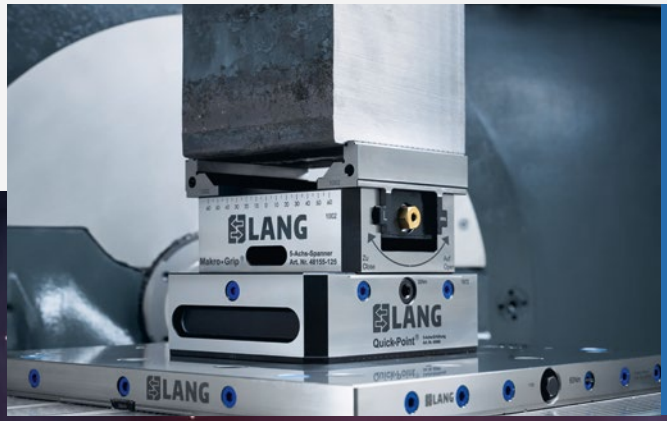
Zero point clamping, workholding and automation – all from one source

A proven and perfectly combined package of workholding, zero point clamping and automation, along with our unrivaled stamping technology, provides our customers with the necessary requirements to stay efficient and competitive.

Zero point clamping

Quick•Point® fits anywhere

- Modularity
- Application variety
- Fastest changeover times



Workholding

A suitable clamping solution for any machining task

- Enormous holding power
- Accessibility
- Modularity

Automation

Flexible single part or large scale production

- Versatility
- User-friendliness
- Low space requirements

LANG
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2207
60Nm
Quick-Point®
Art. Nr. 45741

Quick·Point®

PATENTED

zero point clamping system

The Quick·Point® zero point clamping system is characterized by a particularly wide range of variants and offers a suitable solution for every machine tool. Whether round, rectangular or square in shape, for single or multiple clamping, it can be used universally in vertical and horizontal machining centers, on 3- / 5-axis tables or rotary tables. The simple mechanical operation, solid construction, high precision, and enormous set-up time savings make the Quick·Point® zero point clamping system one of the best on the market.

Primary area of application:

- **Vertical and horizontal milling machines**
- **3- / 5-axis tables, automation pallets, rotary tables and clamping bridges**
- **Single and multiple clamping**

Benefits:

- **High application variety and adaptability**
- **Minimum time required for changeovers**
- **Simple, robust and maintenance-free mechanics paired with highest precision**

LANG
Quick•Tower
Art. Nr. 70650
DMG

Quick·Tower

tombstone for horizontal machining centers

The Quick·Tower tombstone is a flexible clamping solution due to its wide range of mounting options and high storage capacity, which helps to significantly increase the machine runtimes of horizontal machining centers. The Quick·Tower is quick and easy to set up thanks to the integrated clamping studs. A wide variety of zero point plates can be attached to its four side surfaces, allowing all LANG Technik vise sizes to be used in milling operations.

Primary area of application:

- **Horizontal machining centers**
- **Single part to batch production**
- **Single and multiple clamping**

Benefits:

- **Increased machine running times thanks to multiple clamping**
- **Enormous set-up time savings when loading and setting up the tombstone**
- **High storage capacity on a small space**

LANG
Makro•Grip®
Original
Max. 60Nm
1000
30Nm
LANG
Quick•Point® Rail
Art. Nr. 73486
Quick•Point® Rail
Art. Nr. 73195

Quick·Point® Rail

PATENT PENDING

quick clamping system

The Quick·Point® Rail is an innovative quick clamping system based on expandable clamping bars that are attached directly to grooved machine tables or automation pallets – without an additional base plate or modification to the table or pallet. Zero point risers or vises can be positioned freely in series along the clamping bars. This allows clamping tasks to be solved individually and cost-effectively. The Quick·Point® Rail quick clamping system guarantees extremely fast set-up speed and versatility.

Primary area of application:

- **Manual and automated machining processes**
- **3- / 5-axis tables, automation pallets, trunnions and tombstones**
- **Single and multiple clamping**

Benefits:

- **Enormous time savings during set-up – system installation within 2 minutes**
- **High cost saving potential due to the elimination of zero point base plates**
- **Versatile utilization of vises and risers thanks to versatile positioning**

LANG
LANG

Makro·Grip®

PATENTED

stamping technology

The stamping technology invented by LANG is the centerpiece of the Makro·Grip® workholding technology and guarantees maximum process reliability in the 5-sided machining of raw parts. Due to its great influence on the actual clamping and machining process, stamping technology is considered today's benchmark in workpiece clamping. During pre-stamping, imprints are made in the raw material under high pressure in order to provide it with a contour. Pre-stamping with a stamping unit takes just 5 seconds per workpiece and does not require any machine capacity – but these five seconds will have a lasting effect on your production and the way you clamp your workpieces.

Primary area of application:

- **Form-fit clamping via holding serration**
- **Cuboid components (optional: round)**
- **1st clamping operation, raw part machining**

Benefits:

- **Highest holding forces and maximum process reliability**
- **Fewer clamping operations thanks to ideal accessibility in 5-sided machining**
- **Distortion- and wear-free clamping even with high-tensile material**

1002
LANG
1002
Makro•Grip®
5-Achs-Spanner
Art. Nr. 48155-125
Zu
Close
Auf
Open
30Nm
1972
LANG
Quick•Point®
LANG
LANG

Makro·Grip®

PATENTED

5-axis vise

The Makro·Grip® 5-axis vise is the perfect clamping device for 5-sided machining of raw parts. Thanks to its compact design and the low clamping depth of the workpieces, it offers particularly good accessibility and at the same time enables high material savings. Thanks to its form-fit clamping technology, the Makro·Grip® offers the highest holding forces and therefore maximum safety. Despite great holding forces, only low clamping forces are required, which enables distortion-free, secure, and gentle clamping. This has a positive effect on the workpiece quality and the durability of the clamping device.

Primary area of application:

- **Form-fit clamping via holding serration**
- **Cuboid components**
- **1st clamping operation, raw part machining**

Benefits:

- **Highest holding forces and maximum process reliability**
- **Fewer clamping operations thanks to ideal accessibility in 5-sided machining**
- **Distortion and wear-free clamping**

LANG
Makro•Grip®
Art. Nr. 48120-77
US-2017-0368651-A1
Max. 60Nm
LANG
12792
30Nm
Quick•Point®
Art. Nr. 45160
30Nm
1972
LANG
Quick•Point®
5-Achs-Erhöhung
Art. Nr. 45406

Makro·4Grip

PATENTED

clamping jaws for cylindrical blanks

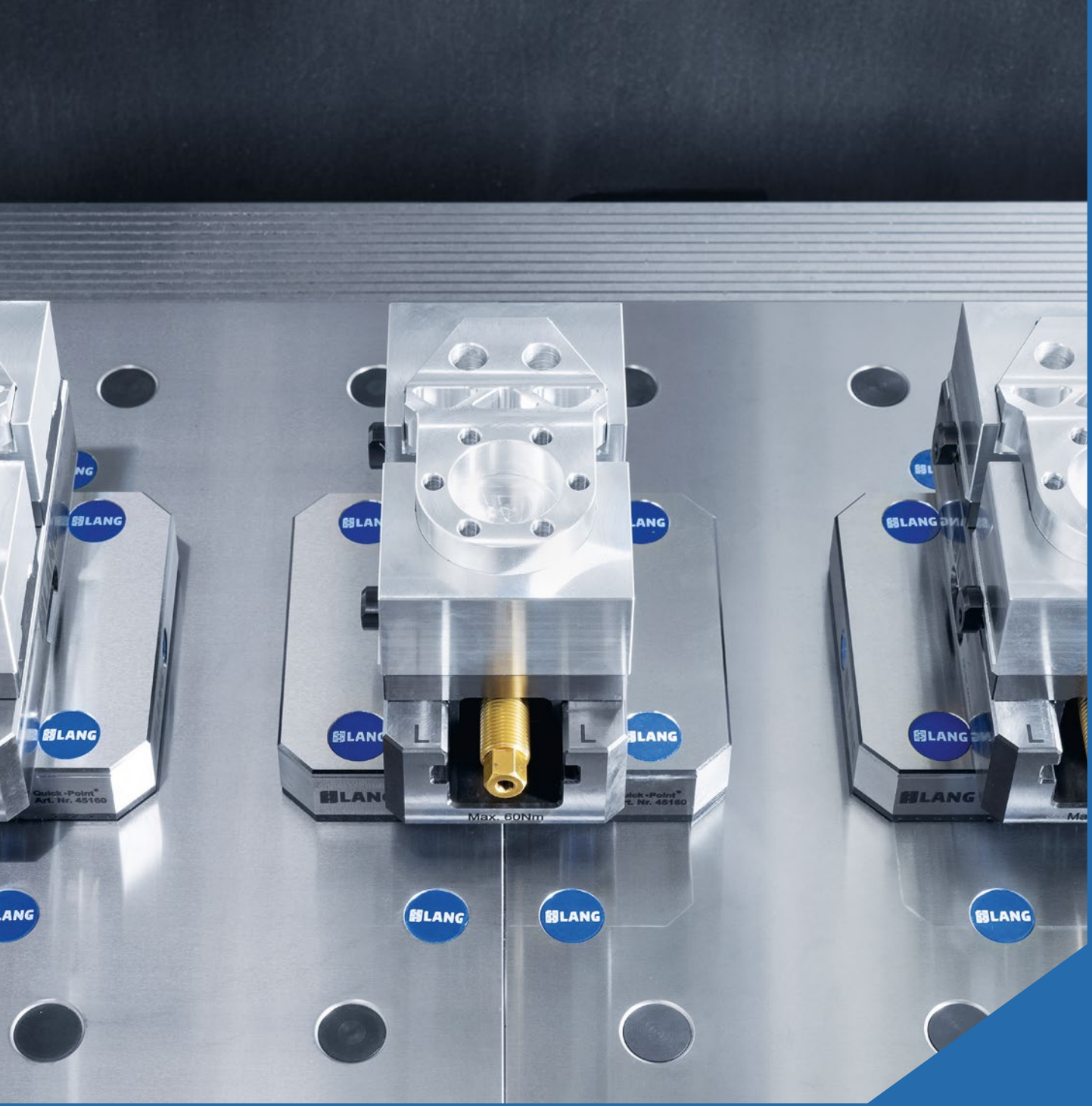
Makro·4Grip is an innovative technology that makes it possible to use LANG Technik's proven stamping technology for cylindrical materials as well. The form-fit clamping of pre-stamped, cylindrical components achieves maximum holding forces despite low clamping pressure, resulting in maximum process reliability. With a minimum clamping pressure, round components with a support height of just 3 mm can be clamped without distortion. Makro·4Grip is available as an additional pair of jaws for the 5-axis vise (and the stamping unit), which means there are no acquisition costs for additional chucks.

Primary area of application:

- **Form-fit clamping via holding serration**
- **Cylindrical components**
- **1st clamping operation, raw part machining**

Benefits:

- **Highest holding forces and maximum process reliability**
- **High material and cost savings thanks to minimal clamping edge requirements**
- **No need to invest in additional chucks**


LANG
Max. 60Nm

Avanti

PATENTED

clamping jaws for contour clamping

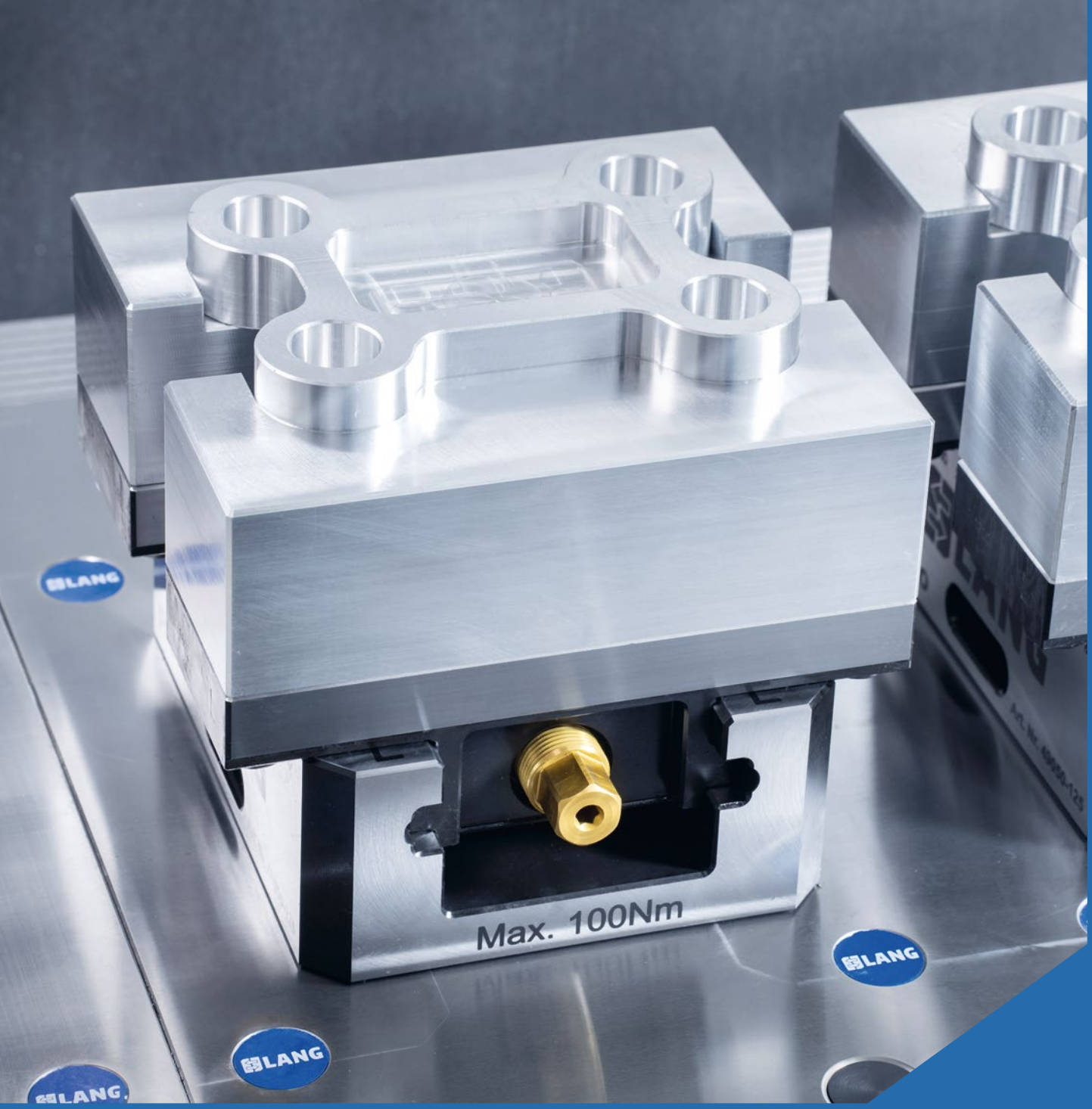
Avanti is a patented contour jaw clamping system for milling that can be used to clamp any workpiece shape. With extremely easy handling characteristics and unbeatably fast mounting of the top jaws, the Avanti is an impressive solution. It is best suited for machining many different parts with frequent changes. The Avanti technology is available as a retrofittable pair of jaws for the 5-axis vise.

Primary area of application:

- **Smooth clamping via friction**
- **Cuboid, cylindrical and pre-machined parts**
- **2nd clamping operation, back-side machining**

Benefits:

- **High set-up time savings thanks to quick jaw exchange**
- **Suitable for components in all shapes, therefore enormous variety of applications**
- **Favorable purchase price**


Max. 100Nm
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Profilo

clamping jaws for contour clamping

Profilo contour jaw clamping system for milling has enjoyed great popularity for many years. No matter what part shape needs to be clamped, Profilo is always the right solution. Its strengths lie particularly in the possibility of attaching self-made top jaws, which guarantees maximum versatility and freedom. Profilo technology is available as a retrofittable pair of jaws for the 5-axis vise.

Primary area of application:

- **Smooth clamping via friction**
- **Cuboid, cylindrical and pre-machined parts**
- **2nd clamping operation, back-side machining**

Benefits:

- **Maximum flexibility thanks to in-house production of top jaws**
- **Maximum freedom in the choice of material and the size of the top jaws**
- **Suitable for components in all shapes, therefore enormous variety of applications**

LANG
1258
Max. 60Nm
Vario•Tec
Art. Nr. 42097-77
Quick-Point®
Art. Nr. 45160
30Nm
LANG

Vario·Tec

clamping jaws with support and end stop system

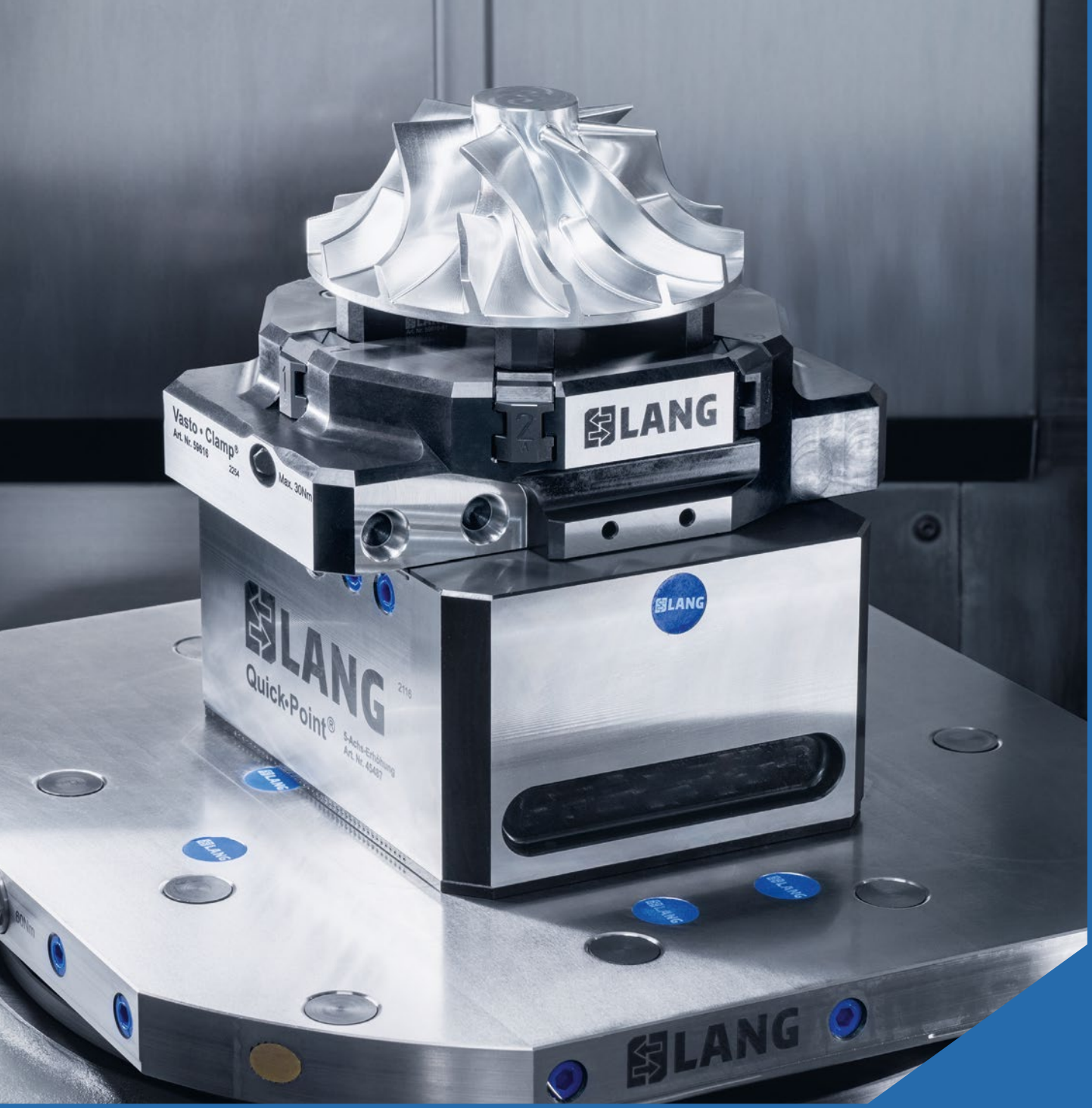
The Vario·Tec pin jaw technology offers a reliable and repeatable end stop and support option for clamping pre-machined components. Its pins make both parallels and external workpiece end stops obsolete. With ingenious simplicity, the clamping situation can be changed by pressing in the pins and reset using compressed air. The Vario·Tec technology is available as a retrofittable pair of jaws for the 5-axis vise.

Primary area of application:

- **Smooth clamping via friction**
- **Cuboid components**
- **2nd clamping operation, back-side machining**

Benefits:

- **High versatility thanks to variable clamping depths**
- **High repeat accuracy when inserting the component and process-reliable clamping**
- **Ideal accessibility as no external workpiece end stops are needed**


Vasto•Clamp®
Art. Nr. 59616
Max. 30Nm
LANG
Quick•Point®
5-Achs-Erhöhung
Art. Nr. 45467
LANG

Vasto·Clamp

PATENT PENDING

6-jaw chuck

The versatile Vasto·Clamp chuck is a true all-rounder in the milling of round material up to Ø 190 mm. It can be used both as a 3- and 6-jaw chuck and therefore delivers outstanding milling results both for heavy machining of blanks and for sensitive components in the second clamping operation. With its innovative quick-change jaw system, the clamping jaws can be attached by hand in just a few seconds without tools. The integrated zero point adaptation also ensures fast set-up speed, time savings and precise positioning.

Primary area of application:

- **Clamping of cylindrical components via gripping jaws**
- **Smooth clamping of cylindrical components via friction**
- **1st clamping operation, raw part machining**
- **2nd clamping operation, back-side machining**

Benefits:

- **Enormous adaptability to a wide range of clamping situations**
- **High set-up time savings thanks to quick jaw change**
- **Can be used directly in automation without additional pallets**

LANG
Art. Nr. 41032
1631
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2324
30Nm

Preci•Point

collet chuck

The Preci•Point collet chuck is designed for use in milling operations to clamp round material with a diameter of Ø 3 mm to Ø 34 mm. Using standardized collets of type ER 32 and ER 50 which are already available in many workshops, allows the Preci•Point to be used at no additional investment. Its slim design ensures excellent accessibility to the clamped material. A major advantage is the integrated zero point adaptation, which enables a fast and precise set-up process.

Primary area of application:

- → **Clamping of round material in the diameter range from Ø 3 mm to Ø 34 mm**

Benefits:

- → **High set-up time savings thanks to integrated zero point adaptation in the collet chuck**
- → **Compact, slim design for ideal accessibility**
- → **Cost-saving potential thanks to the use of standard (often already existing) collets**

LANG
Art. Nr. 81022
ULTRA
Makro-Grip
LANG
60Nm
LANG

Makro·Grip® Ultra

PATENTED

clamping system for large parts and plates

Makro·Grip® Ultra is something like the Swiss army knife among LANG Technik's clamping systems. From small workpieces up to a clamping range of around 800 mm, the modular clamping system covers all sizes and component shapes. The strengths of the clamping system become fully apparent when machining plates. Both raw material and pre-machined components can be held with the versatile clamping system. Its simple handling and uncomplicated, cost-effective expandability make Makro·Grip® Ultra an attractive clamping solution, even for larger and heavier components.

Primary area of application:

- **Form-fit clamping via holding serration**
- **Smooth clamping via friction**
- **Cuboid, cylindrical and pre-machined parts**
- **1st clamping operation, raw part machining**
- **2nd clamping operation, back-side machining**

Benefits:

- **Absolute adaptability to any component shape and size**
- **Cost-effective expansion of the clamping system**
- **User-friendly, ergonomic set-up process thanks to light weights**

FANUC Robot M-710iC
LANG
START
STOPP

RoboTrex

PATENTED

automation system

RoboTrex is an automation system that can be connected and retrofitted to almost any machine tool. Utilizing automation trolleys as a storage medium for vises, as opposed to pallets, the vises are removed directly by a Fanuc robot and fed to the machine tool. RoboTrex covers all requirements, from single part production to large series. It is versatile, easy to operate and offers an excellent cost-benefit ratio. In addition to a high storage capacity on a small footprint, RoboTrex is particularly impressive due to its set-up time savings when loading and unloading the automation system.

Primary area of application:

- **Automated, unmanned production in milling**
- **Single parts to larger series**
- **Vise handling**

Benefits:

- **Can be retrofitted to almost any new or existing machine tool**
- **Extremely simple operation, no robot knowledge required**
- **Minimum time required for setting up and equipping the system**

LANG
Makro-Grip

RoboTrex Compact

automation system

RoboTrex Compact is an automation system that has been specially developed for the unmanned production of small workpieces weighing up to 7 kg. The latest automation solution from LANG Technik is even more compact than the well-known RoboTrex automation system and offers space for up to 100 vises in its storage rack on a footprint of only two square meters. RoboTrex Compact can be retrofitted to almost any machine tool and covers small and medium batch sizes. Thanks to its simple operation, the plug-and-play system requires no specialist personnel.

Primary area of application:

- **Automated, unmanned production**
- **Individual parts up to medium series sizes**
- **Parts up to 7 kg**

Benefits:

- **High storage capacity on a small footprint**
- **Extremely simple operation, no robot knowledge required**
- **More output thanks to increased spindle hours and machine utilization**

HAUBEX
LANG
Art.-Nr. 61125
LANG
Quick-Point

Haubex

automation system

Haubex is a versatile and cost-effective automation solution for small batches starting from 2 pieces on up, transforming the tool magazine into a storage system which does not require an additional racking system or robot. The heart of Haubex is a workholding hood that serves as a carrier system for clamping devices and workpiece blanks. It is called up via an NC program and inserted from the tool magazine.

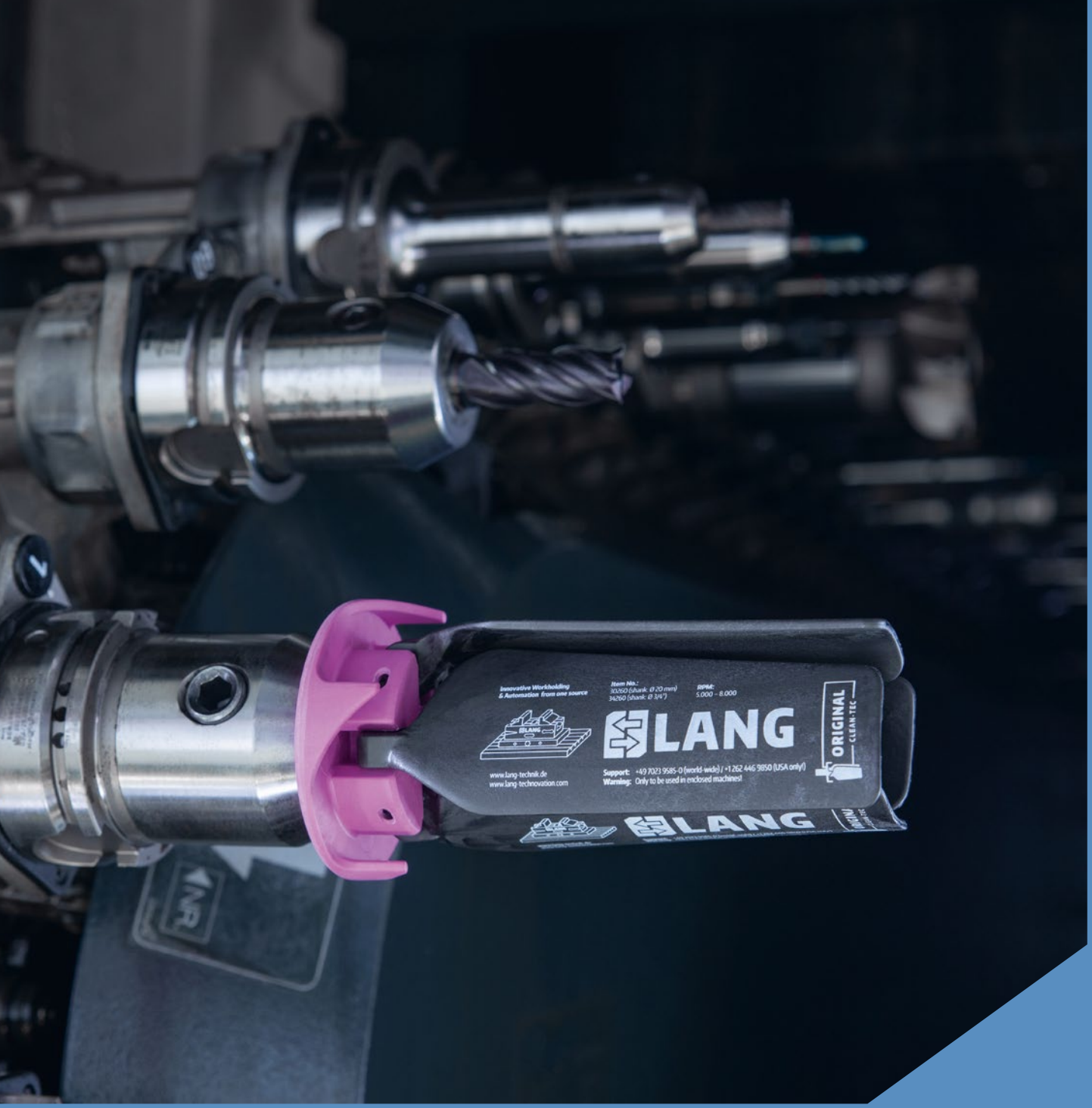
Haubex makes it easy to increase production efficiency, even on older machines. Breaks can now be filled productively, additional working time windows are created for alternative activities by the machine operator and the core working time can be extended by allowing the machine tool to continue unmanned production after the end of work.

Primary area of application:

- **Automated production**
- **Small series**
- **Small parts**

Benefits:

- **No additional space required next to the machine tool**
- **Generate additional machine hours with little effort and low investment costs**
- **Versatile application options, as not tied to a specific machine tool**


Innovative Workholding
& Automation from one source
Item No.:
30260 (shank: Ø 20 mm)
34260 (shank: Ø 3/4")
RPM:
5.000 – 8.000
LANG
ORIGINAL
CLEAN-TEC
www.lang-technik.de
www.lang-technovation.com
Support: +49 7023 9585-0 (world-wide) / +1 262 446 9850 (USA only)
Warning: Only to be used in enclosed machines!
LANG

Clean·Tec

chip fan

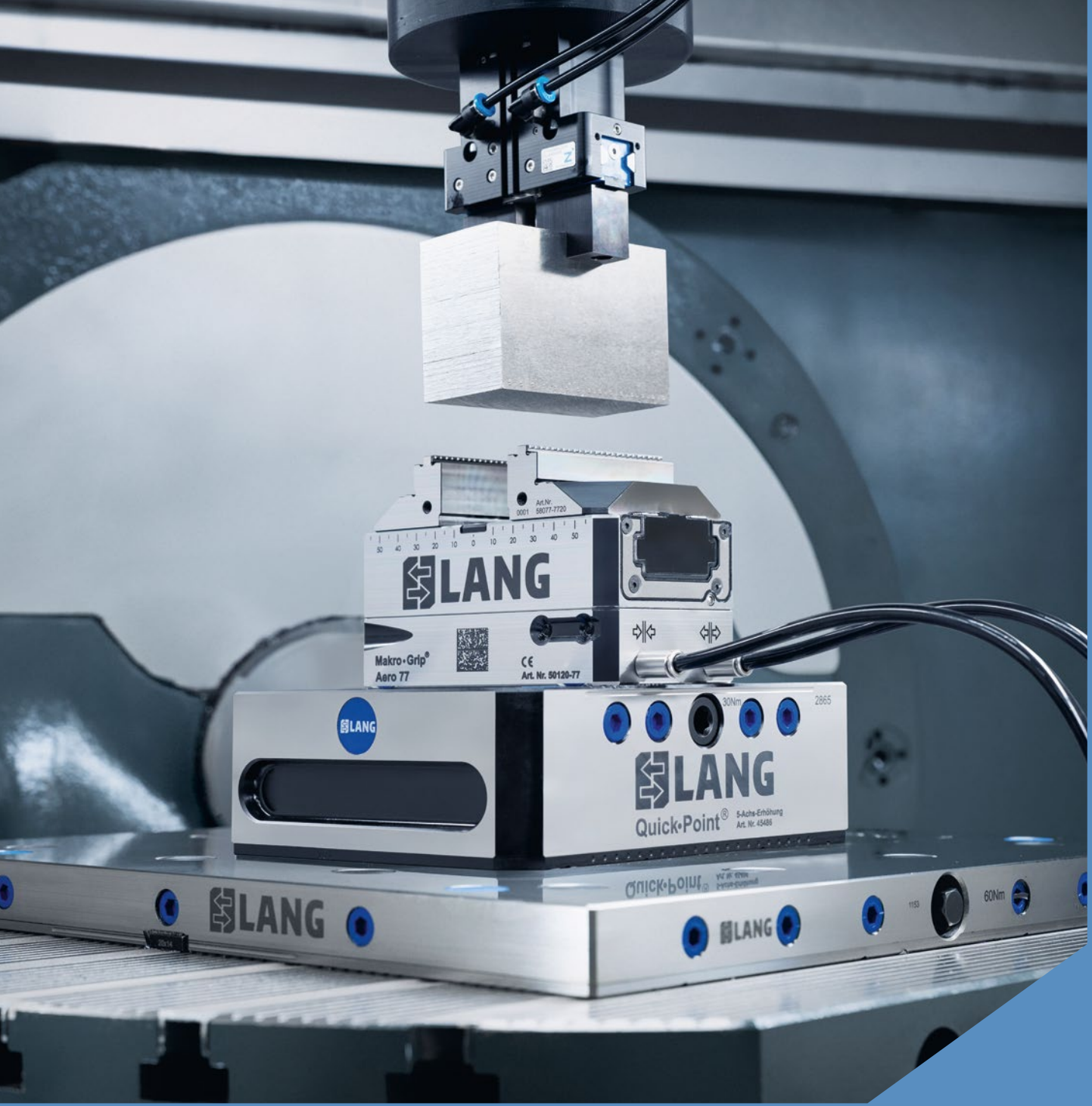
The Clean·Tec chip fan cleans the inside of the machine and removes chips and coolant without the operator needing to open the machine door. It thus enables automatic in-process cleaning of workpieces and fixtures after the machining process. It is called up via the machine program and exchanged from the tool magazine just like a regular tool. The Clean·Tec opens and closes its blades by controlling the speed of the machine spindle. It is an indispensable tool, particularly in automated production. Before the automatic removal, it cleans all critical interfaces between the clamping devices, thus ensuring a clean and flawless workflow.

Primary area of application:

- **Automated cleaning in closed machines**
- **Can be used after the end of each machining cycle**
- **Suitable for all clamping situations and components**

Benefits:

- **Increased operator safety and no carry-over of chips to the outside**
- **Energy savings and no need for expensive compressed air**
- **Consistent cleaning quality and ideal for unmanned, automated production**


LANG
Makro•Grip®
Aero 77
Art. Nr. 50120-77
LANG
Quick•Point®
5-Achs-Erhöhung
Art. Nr. 45486
30Nm
2865
LANG
LANG
LANG
60Nm

Makro·Grip® Aero

automatic clamping system

Makro·Grip® Aero is an automatic clamping system for milling, consisting of a stamping unit and matching 5-axis vises with pneumatic control. It combines the advantages of stamping technology with a part handling system in the field of automated production. With Makro·Grip® Aero, users are able to map the entire manufacturing process of a component from the saw to the finished product without requiring any personnel.

Primary area of application:

- **Automatic part handling**
- **Form-fit clamping via holding serration**
- **Smooth clamping via friction**
- **Cuboid, cylindrical and pre-machined parts**
- **1st clamping operation, raw part machining**
- **2nd clamping operation, back-side machining**

Benefits:

- **Higher holding forces than in competing part handling systems**
- **No staff involvement in the work process**
- **Maximum process reliability thanks to consistent clamping quality**

As unique as your workpiece!
Our department for customized products

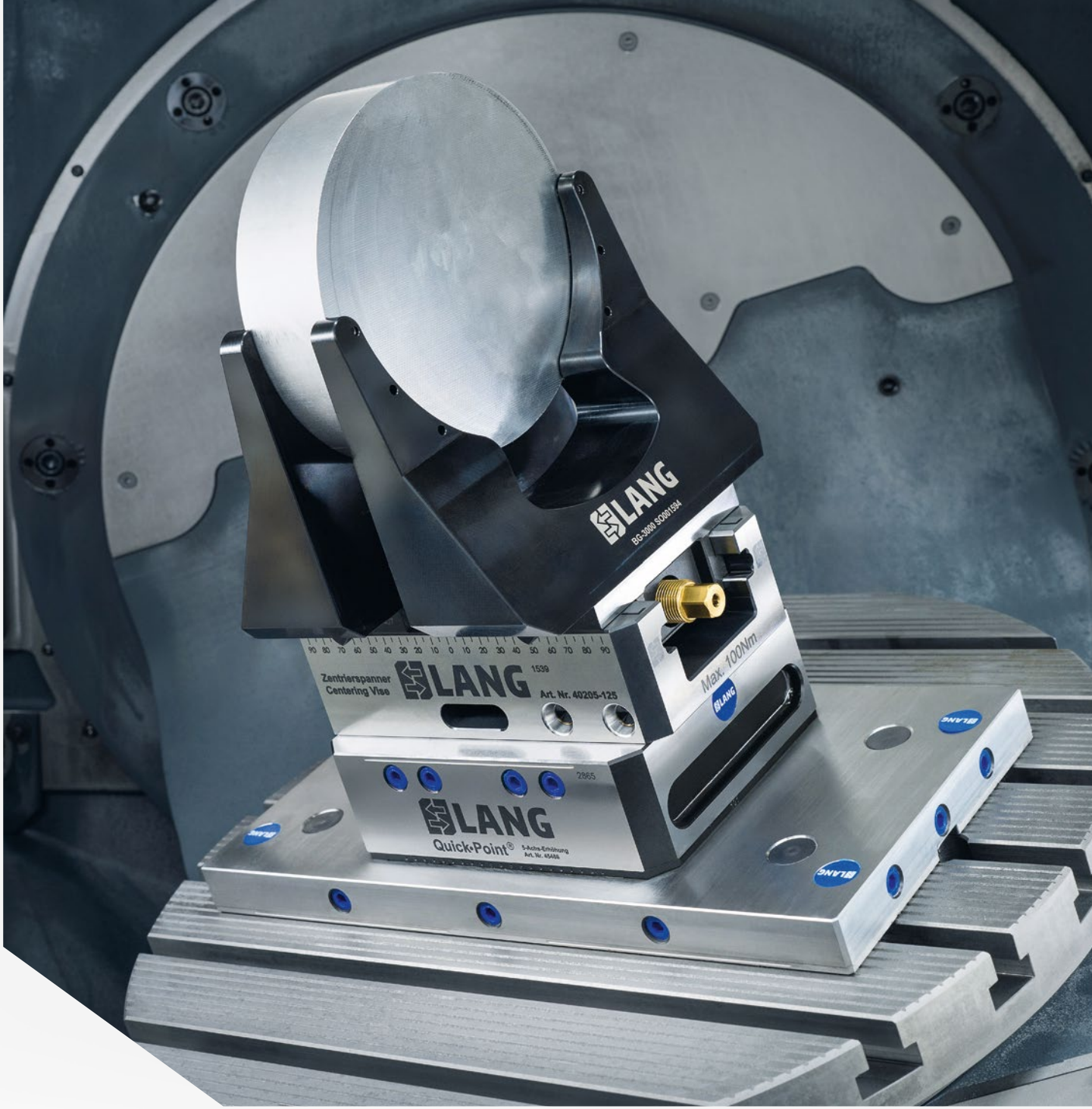
Through modern production methods and innovative concepts, we are able to manufacture large volumes of our standardized products with outstanding efficiency at our facilities in Holzmaden, Germany, achieve high machine-tool utilization and thus offer you a very attractive price-performance ratio. Nevertheless, it is also one of our goals to customize our proven products even more closely to your production requirements. For this reason, we have had our own department for customized products for several years. This department, which has its own production facilities, is based at our former main plant in Neuhausen auf den Fildern / Germany. It specializes in individual clamping solutions for the LANG product range and offers customized solutions for various applications. From consultation (on site if required), through design conception, to production – we work together with you to develop a customized solution. In a separate available brochure you will find some examples of projects realized to date in the fields of automation, zero point clamping and workholding technology, which may also be of interest to you.

Benefits:

- **Increased productivity while reducing production costs**
- **Increased profitability and competitiveness**
- **Improved component quality and reproducibility thanks to ideal adaptation to component requirements**

Contact

→ info@lang-technik-nh.de

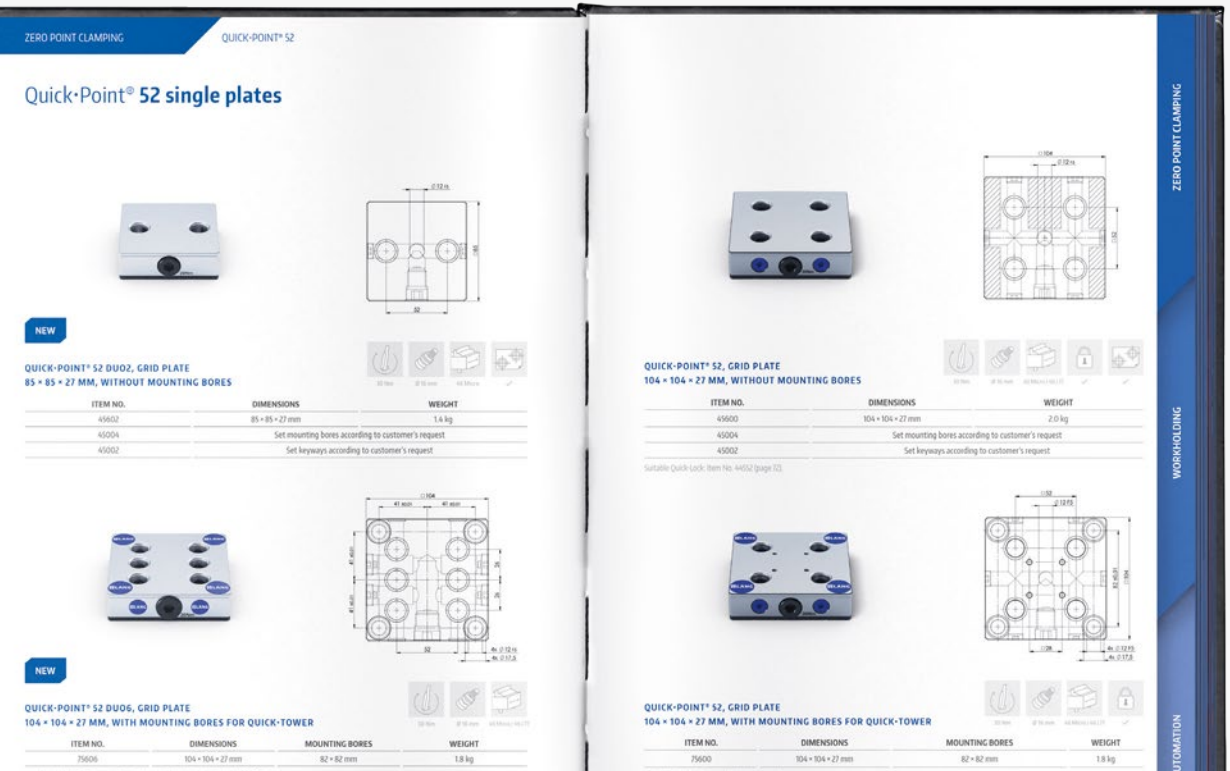

LANG
BG-3000 SQ001594
Zentrierspanner
Centering Vise
LANG
1539
Art. Nr. 40205-125
Max. 100Nm
2865
LANG
Quick-Point®

LANG Technik catalog

The complete product range

Discover new ways to increase productivity and efficiency in your company. This brochure provides an overview of our various product groups. **For detailed information on individual products and sizes, we recommend our current catalog.** You can have it delivered to your home or company free of charge. Simply use the QR code beside.

Request our free catalog now!



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