

Micro-Automation:
smaller, faster, more precise.

ma

micro auto mation

small is

the new

large





„MA micro automation has a very special Team Spirit. Our strengths: Each of us is an expert in his own field of work.“

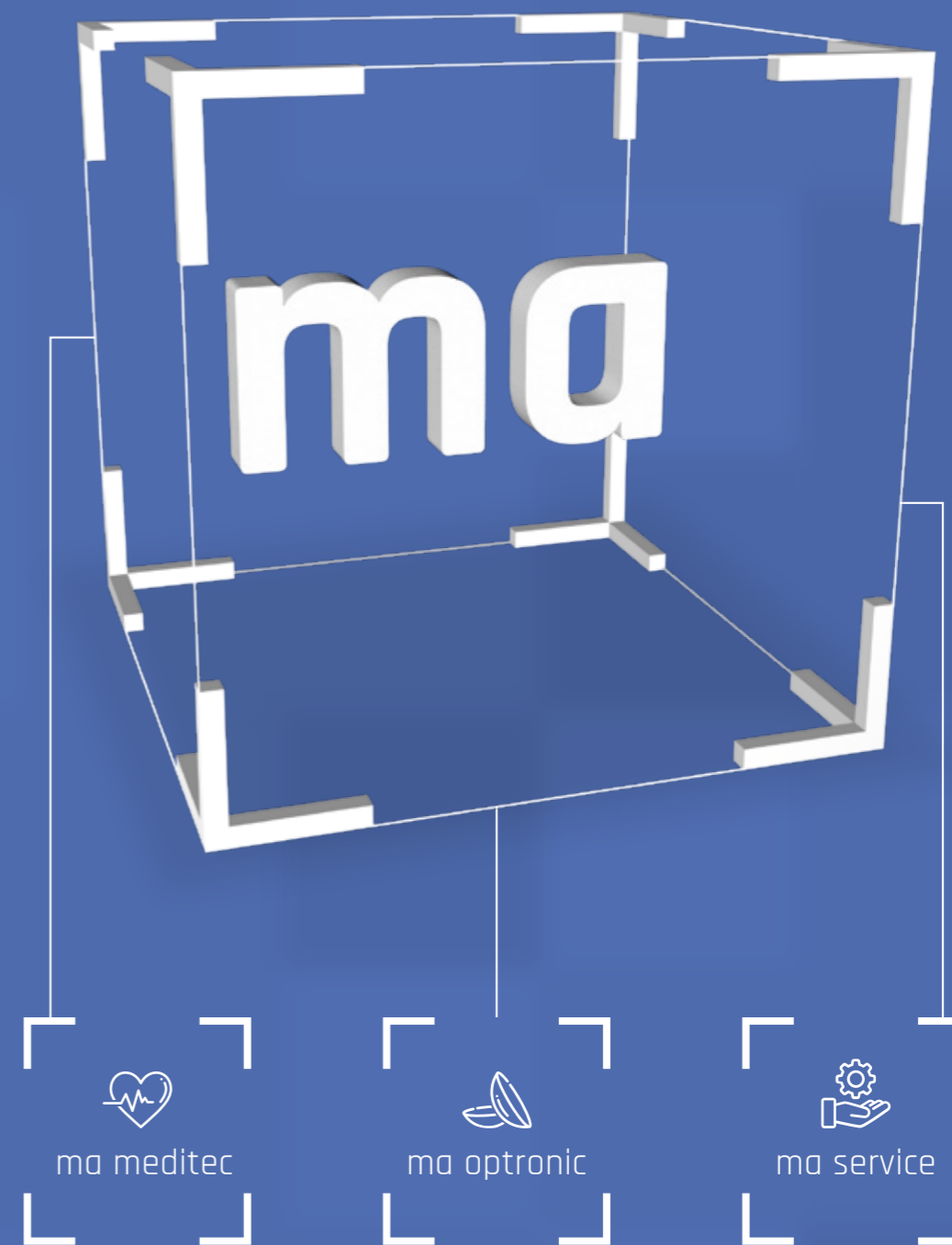
Tamara Gröll | Human Resources
Alexander Loos | Service
Pratheep Kumar | Regional Director S.E. Asia

Welcome to the future of automation

MA micro automation develops and builds installation, adjustment and testing systems for industrial production in medical technology and optoelectronics for its customers. Wherever possible, we rely on proven standard modules and, where necessary, supplement these with custom developed individual components and modules.

MA micro automation GmbH is one of the internationally leading companies for solutions in micro automation technology.

With our competences from the business divisions ma meditec, ma optronic and ma service, we are able to provide our customers with comprehensive advice, to develop the best possible automation concept and to build systems for it. We provide you not only with a tailor-made automation solution for your production, but also the corresponding inspection systems for industrial image processing to ensure the perfect assembly of your products.



Our customers benefit from more than 15 years of experience in the field of medical equipment. You not only buy a system from us, but you also receive the GMP-compliant documentation required for validation.

We offer tailor-made solutions for process control, component testing, surface inspection, cosmetic inspection and installation concepts for the optical industry.

We are there for you even after the successful commissioning of a system. With innovative service concepts and the latest Augmented Automation technology, we optimise the man-machine interface.



3

Business Segments

for large & small



MA micro automation GmbH with its approximately 200 employees at the main location and development site in St. Leon-Rot is one of the internationally leading companies in automation technology and special machine construction in industrial image processing in the field of micro-assembly technology. We take over the complete service chain for our customers, from individual consultation to the conceptualisation and realisation of the systems, right up to after-sales service on site.

The focus of our activities lies in the implementation of customer-specific automation solutions for the installation and testing of the smallest products in the fields of medical technology, optoelectronics, image processing and service.



employees worldwide



large & small
facts

Do you have any demanding automation tasks in the fields of medical technology, optoelectronics, micro-assembly or optical inspection systems? We are there for you worldwide.

3 locations worldwide

North America | Europe | Asia



ma meditec

A great deal of experiences with medical devices



We supply the medical technology industry with production, assembly and testing equipment for medical devices (e.g. contact lenses, diagnostic consumables, medical injection moulding components, insulin pens, auto injectors as well as pipette tips and reaction tubes). The support of our customers during the DQ/IQ/OQ/PQ phase and the creation of GMP-compliant documentation round off our service portfolio.

We meet the highest demands on new production technologies and quality through innovative system concepts and comprehensive quality management.

System and product-related process analysis, GMP-compliant designs, comprehensive qualification experience and structured project management in line with GMP guidelines, coupled with the precise selection of suitable technology, guarantee decisive added value for our customers.

We provide you with support in the production-ready design of your products (DFA - Design for Assembly), develop production concepts together with you and transfer these from the concept to the finished production line.



ma optronic

Small components,
large perspective

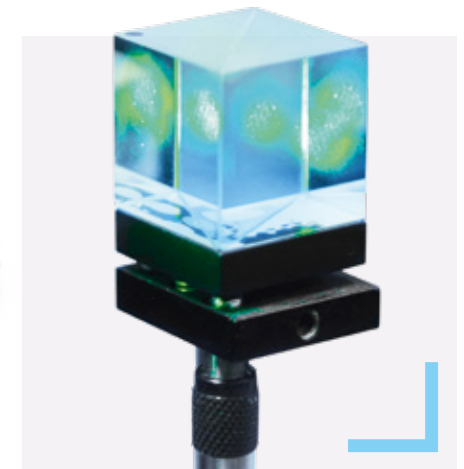
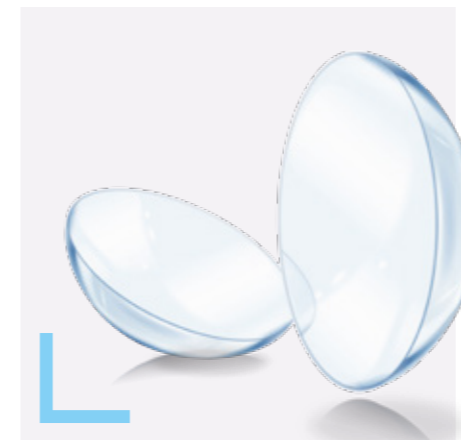


Whether micro-assembly, camera driver assistance systems, laser production and assembly of optical systems - ma optronic specialises in the development and construction of optical inspection and alignment systems for fully automated production and testing in all areas of industry.

High-quality components, which must not be restricted by defects in terms of both appearance and functionality, require fully automated test systems for production facilities. We are specialised in exactly this task and deal with the image processing in individual camera systems or the development of inspection systems that monitor the quality of the manufactured products around the clock.

Not only testing, but also the fully automated adjustment of components is facing constantly increasing requirements. Ever tighter tolerances go hand in hand with a decreasing component size: Components for camera systems such as those installed in vehicles or mobile phones, or optics that form a laser beam, these days not only require high-precision production, but also active alignment in up to 6 degrees of freedom.

We not only develop and create the algorithms for processing the images in-house, but also design and manufacture the hardware such as cameras, evaluation optics, lighting and adjustment systems.





ma service

Service is our top priority



After successful commissioning and the start of production, we are your partner for spare parts and consumables as well as conversions, extensions and relocations of machines.

ma service is not only at your side after project completion, but also works out the necessary spare parts and consumables packages during the commissioning phase and trains the maintenance personnel in order to ensure a smooth process in series production.

We offer you individually adapted maintenance contracts, from simple telephone hotlines to Augmented Automation solutions.

With our Augmented Automation solution, we are able to offer rapid and targeted service in the event of service with the aid of intelligent data goggles and to rectify any faults together with the machine operators without any loss of time due to travel times.

Upon request, we develop concepts for preventive maintenance with our customers as early as during the design and construction phase.





micro automation

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A **MAX** Automation SE company