EALA – EUROPEAN AUTOMOTIVE LASER APPLICATIONS 2018

19TH EUROPEAN EXPERT CONFERENCE
6 – 7 FEBRUARY 2018, BAD NAUHEIM

EXHIBITORS INFORMATION

22 Exhibitors on site

www.automotive-circle.com
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ARGES presents a selection of scan heads with 2-8 axes for a broad range of applications in the field of industrial laser material processing:

- 3D high-performance scan heads, primarily used for cutting and welding applications in the automotive industry. See our family of versatile scan heads, like the Remote Welding Elephant for High power applications, our Rhino – a compact 2D scan head or the new TIGER - a robust scan head with a highly dynamic Z-axis for ultrafast and precise 3D material processing.

- The Precession Elephant 2 is the world’s leading industry-proven scan head for high-precision laser microdrilling and cutting, specifically designed for demanding applications in mass production. The scan head offers maximum flexibility for the drilling of innovative borehole and edge geometries of differing conicity, taper angles and shapes. Beside a versatile applicable range of scan heads, ARGES offers individual, customized designs and the realization of complete laser subsystems for the integration into laser systems.

ARGES has been a pioneer in the laser sector for over 20 years. Supportively to an in-house department for mechanical design, software and hardware development and production, ARGES provides application and material science laboratories. Therewith it is possible to accompany the customers in demanding projects with specific sampling and material analysis from the beginning on and to develop custom-fit solutions to the required application. The laser scanning systems are used in the micro and macro laser processing in a variety of fields, such as automotive, electronic or photovoltaics industry, in medical technology or at universities and research centers. The close collaboration with universities and the participation in manifold research projects ensure us to stay ahead in innovative product developments, based on the latest technological opportunities.

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Automation W+R offers high-end seam inspection systems for detecting the smallest defects (0.1mm) or measuring seams.

The almost 100% detection reliability combined with minimal pseudo error rate is the strength of the Robiscan system.

The systems are used by well-known OEM in the body shop for welding and brazing control of aluminum / steel.

At the EALA we present our latest developments.
Bergmann & Steffen GmbH – Innovative Welding Solutions

Nowadays, Bergmann & Steffen is one of the leading manufacturers of remote laser welding technology in Europe.

- We are certified turnkey supplier for:
  - Remote laser welding cells
  - Remote laser welding fixtures for front and rear seats, bumpers, sills, tracks and other automotive parts
  - Integrator for laser welding processes into OEM BIW and assembly lines
  - Laserwall® – patent pending material for the manufacture of passive laser cabins for high-power lasers
  - Tornadoblade® – patent pending innovative blower air knife for scanner welding optics.

- We run our own laser application center for:
  - Customer tests and weld samples
  - Process development and prototyping
  - Manufacturing of small batch production
  - Customer training

- During this year’s conference, we present our patent pending Tornadoblade®. The innovative blower air knife for scanner welding optics with the following features:
  - Tested up to 6 kW laser power (@ 1070nm)
  - Reduces the compressed air consumption of 98%
  - Extends the lifetime of shield glasses
  - Total electrical output 4 kW
  - Amortizes within shortest time
  - Almost maintenance-free
  - Optimal work piece accessibility

We are looking forward to your visit on our stand no. 2.

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Company Profile: Blackbird Robotersysteme, a sister company of SCANLAB GmbH, develops intelligent laser welding solutions with scanning optics. The scanning solutions developed and manufactured in Germany can be integrated seamlessly into industrial manufacturing systems - particularly robotic cells. Core competencies include in-house development of the control systems and the intuitive user software of the system solutions. Combined with the SCANLAB scanning heads, a broad range of proven systems are available to industry. From our locations in Germany, USA and China, we support our customers all over the world with short response times.

Reliability: Scan systems based on more than 25 years history of technology and market leadership. Common technology platform for 20,000 scan units p.a. worldwide / across many industries. 150+ remote welding systems installed in car industry since Blackbird market entry 2011, including mass production systems at OEM / TIER1 in Europe, Korea, Japan, China, USA.

Performance: Best-in class 3D robotic scanner on-the-fly welding solution (versatility, efficiency, usability). Scanning solution with seam tracking allows fillet welding at unmatched speed / precision, enabling process innovation and significant reduction of production cells.

Flexibility: Commitment to maintain open interfaces to leaders in adjacent markets ensures our customer’s freedom of choice in sourcing of laser generators, robots and process periphery. Wide range of application specific hard- and software functionality supports different application needs in a comprehensive way (e.g. Body Welding, hang on parts, Batteries, Marking etc.).

Highest Innovation Pace: Strong in-house R&D base on all core aspects (Galvos, Optics, Controls, Software). Proactively driving new solutions with OEMs and the technology developers, like novel OCT sensing technology for edge tracking and quality assurance.
The delegates should visit our company / booth in reason for detailed expert information about using fully automated weld seam inspection systems and weld seam measuring systems in mass series production. More than 170 EHR® TIVIS® systems are actually running in automotive industry production lines worldwide. So a wide range of experience and expertise can be taken by the conference delegates.

EHR® GmbH & Co. KG presents the newest generation of EHR® TIVIS® software for fully automated weld seam inspection and measuring. The main features are: - Compact size - Easy to integrate - OSI40 and EHR® TIVIS® AluCheck are proven standards for weld seam measuring in mass series production lines - OSI40 and TIVIS® AluCheck is a extensible system platform - Considerable experience in customizing and integration.

EHR® GmbH & Co. KG offers a wide range of services including consulting during design phase, customizing, training and remote services.
Specialists in laser systems for cutting, engraving and marking – eurolaser develops and produces innovative laser systems for material machining in industry and craftwork. With a multiplicity of potential uses, the Lüneburg-based company has established a position showing the way ahead for new laser applications in many industry sectors. Nowadays, anybody who wants to remain competitive is switching from conventional production processes to superior laser technology. Due to economical and flexible production with our systems, many users ensure themselves additional growth and thus, long-term success.

- **High quality** – eurolaser offers high-end laser cutting systems and places value on high quality cutting results to meet customer’s requirements. The tool laser stands for precise cutting so that even fine contours are possible to cut. Besides, the biggest machine, the 3XL-3200 with a processing area of up to 10 m² also enables large-format cutting.

- **Efficient systems** – A completely modular concept underpins the laser systems, so that eurolaser can always take a flexible approach to customers’ needs. Reliability and a long working life machine guarantee a positive price-performance ratio for the investment.

- **Exhibited samples** – A portfolio of materials frequently used for laser cutting in the automotive industry will be exhibited, such as heat protection textiles (e.g. glass fibre), technical components (e.g. aramide fibre), keyboard film (e.g. polyester), seat upholstery (e.g. spacer fabrics), wind deflectors (e.g. polyester fabrics) and vehicle emblems (e.g. technical adhesive films).

- **Many years of expertise** – Through numerous successful process integrations, the laser experts from eurolaser gain experience of over 10,000 material tests. Potential customers are encouraged to carry out comprehensive tests with their individual material in the Application Centre.
GVB GmbH – Solutions in Glass provides one of the multifaceted ranges of special glass products worldwide, such as components made from quartz glass, fused silica, borosilicate glass or sapphire. Additionally, we also provide different kinds of optical coatings, for example different AR-coatings for protective windows. Our customers benefit from our years of experience in the special glass sector, as well as from our strong networking connections in the Asian, American and European markets.

In addition to our standard products, we also supply our customers with up to 50% of individually requested articles for various applications. We support our customers from the beginning of the process to the end by, for example, lending assistance and pointing out directions whenever necessary. It is our aim to understand our customers’ applications in order to offer the best solution. Sheet metal working is an important market to us because this is where we address our anti-reflective-coated (AR) laser protection windows, which protect high quality optics from material splashes during the welding or cutting process.

Today, especially during the production of body parts, more than 100,000 of GVB’s protection glasses already are in use annually. This shows that our quality fulfills high standards even in case of mass production. Besides, due to our knowledge in the field of special glass and influence on the raw material we gain an excellent cost-benefit-ratio.
View through the laser optics
hema electronic presents its inspection system seelectorICAM LASER at the EALA 2018.

- The seelectorICAM LASER quality assurance system reliably checks the strength of the seam and the quality of the welding process in laser-remote welding applications. Online monitoring of each weld seam with high evaluation power through the autonomous, intelligent camera and fast data processing as part of the cycle time assure the greatest profitability.

- The system is suitable for all 3D laser welding implementations. Extremely short commissioning times, the comfortable user-interface and a high reliability with low service costs convince our customers.

- The fast availability of the full camera functionality in series production makes the success of this already established system in the car-body-construction complete.
II-VI HIGHYAG is one of the world’s leading suppliers in the laser material processing industry. Our broad spectrum of laser processing heads for macro processing is unique. We offer processing heads for laser welding, remote laser welding, laser brazing, surface treatment and laser cutting. Their robust modular product design meet the most demanding requirements of the manufacturing industry: high uptime, user-friendly operation and logical system integration. The laser processing heads can be tailored to specific customer needs to meet specific configuration requirements.

Our application engineers consult you with process development in order to achieve an optimal system and process set-up for your laser application. On this basis, your application process will be optimized or can be transferred for serial production. Our technical product support team in our worldwide offices assists with on-site installations and is at your service when needed to ensure the maximum productivity of your production line.

At EALA 2018, we will showcase our latest generation laser processing heads for use in high volume production lines:
• the scanner based remote laser welding head RLSK with its new seam tracking feature
• the modular processing head BIMO with motorized zoom collimation module for a wide range of applications including welding, hardening and surface treatment
• the laser brazing and welding head PDT-B with integrated tactile seam tracking and auto focus control
• the RSK with integrated clamping technology

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HYFRA is one of the most experienced suppliers of individual, reliable and high-quality process cooling.

Our highly efficient cooling systems and air heat exchangers are key for reliably safeguarding your processes. We react fast and flexibly to your requirements. The name HYFRA stands for long-term, sustainable partnership. Our actions prove this every day. We support our customers – in the laser industry, machine tool engineering and filtration, in particular – with the process cooling of their machines. Which in turn are used in the aerospace, automotive and printing industries, as well as for metal and sheet metal forming.

With our many years of experience, we cover the entire range of industrial cooling solutions from plug & play compact devices to individually developed systems with extensive services. As a subsidiary of global provider LENNOX International, Inc., we help our customers in more than 50 countries to continually set new standards of performance.

For over 120 years, Lennox International, Inc. has been an innovation leader for heating/cooling solutions for end customers and industrial customers alike.

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IPG Photonics Corporation is the leading developer and manufacturer of high-performance fiber lasers and amplifiers for diverse applications in numerous markets. IPG Photonics’ diverse lines of low, mid and high-power lasers and amplifiers are used in materials processing, communications, medical and advanced applications. Our products are displacing traditional applications in many current applications and enabling new applications for lasers.

The Company is leveraging its brand and position as a pioneer and leader in developing and commercializing fiber lasers and amplifiers to increase its market share in the broader market. IPG’s lasers should continue to displace traditional lasers in many existing applications due to their superior performance and value. Quite simply, IPG’s products are disrupting the market by empowering tomorrow’s applications today. IPG’s vertically-integrated development and manufacturing capabilities enable the Company to meet customer requirements, accelerate development, manage costs and improve component yields, while maintaining high performance and quality standards.

IPG is a global company with manufacturing facilities in the U.S., Germany, Russia and Italy, and regional sales offices in France, Spain, United Kingdom, Poland, Czech Republic, Turkey, Singapore, Japan, China, Korea and India.

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With its Automotive division, Jenoptik is one of the leading manufacturers of metrology and laser processing systems for manufacturing processes in the automotive industry (e.g. for car body, power train, exterior/interior parts). In the area of Laser Processing, Jenoptik develops 3D laser machines that are integrated into production lines for our customers as part of their process optimization and automation. These systems are used for processing plastics, metals and leather with maximum efficiency, precision and safety.

With the JENOPTIK VOTAN® BIM “beam in motion” system, JENOPTIK has developed a modular robot based laser processing machine, which meets all OEM specs regarding accuracy and speed to process e.g. press hardened steel parts or other 3D shaped automotive metal and composite materials. Due to the use of a highly precise customized robot system positioning accuracies of down to ±50µm can be achieved. Additionally the light weight setup of the robot and its unique internal beam guiding system is an enabling factor to maintain dynamics of the system and to use different kind of laser sources, necessary for the variety of automotive components. As a result a highly productive, accurate, efficient and low space consuming system can be described based on one or multiple robot modules working simultaneously together. In order to address the ever-increasing demands of the automotive industry for light-weight construction, material saving and higher flexibility in production, Jenoptik has developed OEM awarded machine concepts specifically for the processing of bumpers. These concepts utilize two technologies which have been successfully introduced into the market: 3D laser cutting and laser welding. By combining one laser cutting unit and one laser welding unit, Jenoptik provides automotive manufacturers with a highly flexible solution for the processing of a vast variety of bumpers and other exterior parts.
Founded in 1987, JUTEC® GmbH is a known manufacturer in the field of “technical textiles”. The product range includes processing textiles, the development and design of various solutions in the fields as of • Laser protection, • Heat and workplace protection, as well as • Machine protection. It is JUTEC’s specialty to offer each customer a tailored solution starting from a batch size of one piece.

JUTEC is an experienced “made in Germany” enterprise with 85 employees with sales activity in 70 countries. JUTEC will be presenting a new developed smart textile, which enables active laser protection. These smart textiles are fabricated as active laser protection curtains, active movable laser cells as well as a special design to retro fit already existing passive laser cells. Personal protective equipment against laser irradiation is also presented, specially designed for hand held laser applications. Today, even mobile high power laser solutions are often found in modern production facilities which should be protected actively. Up to now, active laser protection has always been a challenge. With this new solution, today, JUTEC provides active laser protection for almost any type of application. It’s flexible, movable, light weight and cost effective.

JUTEC shows up with a passion for safety for decades, therefore the active laser protection system is qualified by the TÜV-Süd according to EN 13849-1 reaching performance level „e“.

JUTEC is the manufacturer to satisfy your special laser protection requests based on textile solutions. Active laser curtains and cells are able to withstand laser powers of up to 12 kW or intensities as high as 5 kW/cm² and can easily be integrated in fully automated laser production setups.

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For more than 30 years, Laser 2000 has been offering its customers the right solution for their demanding application in cooperation with the world’s leading manufacturers as a “customized solution from a single source”. For Laser 2000 and its employees, photonics means passion and profession at the same time. The highly experienced employees are enthusiastic about laser technologies and are always at the cutting edge for the latest technologies, products and application possibilities. Among other things like laser safety, measuring systems and machine vision equipment we are supplying a variety of products dedicated to the laser material processing and with the aim of revolutionizing the market of high-speed material processing.

For sure a highlight is the high-performance blue laser technology, with which existing metal processes achieve a radical gain in speed and quality. This makes it possible to break new ground for the conventional laser material processing and especially welding copper alloys. Laser 2000 also offers laser sources which enable exceptionally high-speed cutting, welding, material deposition, and many other OEM macromaterial processing applications. The core quality is the high brightness; in combination with a one axes scanner for high dynamic beam control it is possible to achieve best welding results with high processing speeds.

For advanced micro-machining applications needing short femtosecond or picosecond pulse widths the wide range of Laser 2000 provides very compact, high energy ultrashort pulsed lasers, in an ergonomic and very user-friendly design. The varied portfolio moreover includes devices for enabling 3D measurement, for example quality control, online process control and calibration for laser scan fields.

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Laserline GmbH launched its business in 1997 in the German city of Mülheim-Kärlich (close to Koblenz). As a leading international manufacturer of diode lasers for industrial material processing, Laserline has since become the very embodiment of this innovative technology and can look back with pride at 20 years of corporate history. As of today, more than 4,000 Laserline diode lasers have been delivered worldwide. Laserline currently employs 300 people and has international subsidiaries on the American continent (USA, Brazil) and in Asia (Japan, China, South Korea) as well as sales partners in Europe (France, Italy, Great Britain) and in the Asia-Pacific region (India, Taiwan, Australia).

Laserline diode lasers can be found in a wide variety of different sectors and application areas. Typical application areas are classical forms of metal processing, as in welding, brazing, hardening or softening, as well as cladding. Furthermore, Laserline diode lasers have been established for plastic welding and in newer production processes like additive manufacturing (metal 3D print) or welding of fiber composites. Users can be found mainly in the automotive industry, engineering, as well as tool and mold-making. In aerospace and heavy industry, Laserline diode lasers are also in use.

The power range of Laserline diode lasers reaches well into the multi-kilowatt area. As today’s standard, lasers with up to 25 kW power are available; in test runs, 60 kW has already been realized. The exceptionally high wall-plug efficiency of almost 50 percent is groundbreaking. For applications with high demands for focusability, diode lasers with a beam converter have been developed that offer beam qualities from 8 to 4 mm·mrad. Furthermore, Laserline offers diode lasers as 19-inch rack-mount and customized laser designs. At its own application lab, industry specific solutions are developed, possibly realized as prototypes, and tested comprehensively.

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Non-contact and Traditional Measurement of High-power Lasers in Laser Material Processing

Sophisticated beam profiling
The higher the power and energy density in the focus of the laser beam, the more efficient the laser-based cutting or welding process: To this end, MKS Ophir has developed a unique non-contact beam profiling technology based on Rayleigh scattering to monitor the quality of the laser beam: BeamWatch measures high power laser beams within fractions of a second – without affecting either the beam or the measurement device itself. From these readings, and using integrated software, it is possible to calculate a wide range of beam and beam-quality parameters according to ISO 13694 and ISO 11146 standards, including focus diameter, focus position and shift, divergence, ellipticity, $M^2 (1/k)$ and beam parameter product (BPP).

At the EALA conference, MKS Ophir is exclusively presenting its BeamWatch Integrated. This solution is specially designed for industrial use and offers a robust housing, various interfaces, short measurement times, consistent documentation and predictive analytics.

Cost-efficient power measurement
Providing an overview of the performance trend in industrial laser applications, MKS Ophir offers HELIOS, a power meter that detects laser powers of up to 12 kW in mere seconds – so quickly that it requires no cooling. With over 40 years of experience, MKS Ophir is dedicated to continuous innovation and provides a complete line of instrumentation, including power and energy meters and beam profilers. If you’re looking to find the best solution for your measuring challenges, come see us at Stand 21.
Precitec presents the WeldMaster Scan&Track system with its new innovative online process control concepts for the remote welding of aluminum without filler wire. The quality of seam surface is controlled during the welding process and defects are detected. In comparison with the conventional methods the cycle time is decreased by 50 % and the system’s footprint is reduced to the welding station.

In addition we are pleased to introduce the expanded version of the Precitec IDM system to measure the penetration depth. Due to TwinTec the workpiece distance measuring is simultaneous. Only the absolute depth is used for quality assessment. Distance changes during processing do not distort the measurement result. The system is already in industrial use for robot applications.
PRIMES offers measuring technologies for beam analysis of beam sources and laser systems from micro up to macro range. The aspect that makes many PRIMES measuring devices special is that the characteristics of the laser beam are measured directly in the process zone which means that the parameters are determined immediately.

The market segments that are served are beam source manufacturers and system integrators as well as end-user markets of laser technology.

Products range from power meters and scanning beam diagnostics systems over to highly sophisticated camera based beam analysers for the characterisation of both the collimated and the focused laser beam.

PRIMES has a worldwide sales network of distributors with a total export share of up to 50%. In the past few years PRIMES was regularly able to achieve a self-financed double-digit growth.

Due to networking with a well-developed national research infrastructure as well as the industrial infrastructure, innovations can be realised target oriented. In the current economic situation there are publicly-funded research projects that help carry out innovations.

Experts in the area of beam source development, beam propagation and laser application are part of the PRIMES team. This team is complemented by experts in device-specific fields. Due to this, PRIMES is able to offer sophisticated solutions and to realise customer-specific requests in the cross-sectional technology “laser”.

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RMA is the Polish leading supplier of industrial automation. With a distinctive know-how and long-lasting experience we aim at proposing efficient and cost-saving automated solutions to our Customers. Apart from automotive industry, which has always been our main area of activity, we design and deliver tailored and highly innovative technologies for a wide variety of companies deriving from different industrial areas.

We are being firmly supported by our R&D team who is constantly monitoring the market trends and providing solutions which usually exceed our Customers’ expectations. Beside our strong laser welding focus, we have been recently involved in the area of the laser cleaning innovations.

Our attitude led us to design and manufacture RMA MLS series, one of the most advanced and versatile laser welding platforms currently available on the market. During EALA 2018 we would like to present our newcomer – MLS502 – an orbital welding machine. It comes with a wide range of laser welding heads and laser sources (up to 10kW). RMA offers custom toolings for MLS502 which can manage the welding diameters of up to 500mm. Its unique, exceptionally cost-effective online seam tracking module, offers great welding precision and improved weld quality assurance by providing real-time adjustments (compensation for variations in joint position and fit-up).

With its enormous flexibility and customer oriented approach, RMA has been offering both dedicated, custom-made solutions (production lines, manufacturing cells, etc.) and ready to use MLS platforms with relatively short delivery times and well balanced scope of applications. Innovation is clearly defining each and every one of our solutions with MLS501 and MLS1000 being equipped with a revolutionary SCOUT and MLS502 offered with an optional online seam tracking module.
The automotive industry has always been one of the driving forces behind innovative laser applications. Lasers provide a highly flexible tool that can be easily integrated with robotics and other automation to create solutions for a variety of automotive parts and materials. Coherent-ROFIN offers not only the entire range of high power industrial laser sources like fiber lasers, diode lasers and CO₂ lasers but also the consultancy for application related laser choice as well as a partnership to end customers and system manufacturers.

Coherent-ROFIN’s HighLightTM FL series comprises high brightness fiber lasers with output powers ranging from 500 W to 10,000 W and a variety of fiber core diameters enabling maximum performance in many applications in automotive industry. For more challenging applications, such as welding of Zn-coated steel, a fiber laser with adjustable ring mode, the HighLight FL-ARM, rounds off the product family.

The use of modern scanner technology in combination with Coherent-ROFIN fiber lasers becomes a key technology in automotive industry. Complex shaped 3D components can be welded with the flexibility of the scanner. Furthermore, the use of a fiber laser with scanner also offers a perfect processing package for the manufacturing of battery cells for the e-mobility industry.
Scansonic develops and produces system solutions for laser joining and laser hardening.

Our modular processing heads for automated laser welding and brazing of thin sheet metal are the state-of-the-art in manufacturing technology. For our customers we open up the advantages of laser technology – creating higher efficiency, precision and quality in production.

At EALA 2018, Scansonic displays two product highlights. RLW-A remote laser welding optics for fillet welds. ALO4, the next generation optics with tactile seam tracking for laser brazing and welding.

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At the EALA 2018, TRUMPF is showing the latest developments in the field of laser remote technology as well as numerous examples of applications from the area of laser technology. Highlights: TRUMPF presents the newest status of I-PFO 3D and seam position control and monitoring system for remote welding applications. The Multitool I-PFO 3D, the 360° OCT seam detection and full quality assurance from the assessment of the weld seam up to the evaluation of the component quality (seam cluster) enable new possibilities in car body construction.

TRUMPF is distinguished by a large portfolio of technology in the area of industrial laser material processing which also includes optics besides the beam sources. Moreover, the company possesses a high level of expertise in the field of process and industry knowledge.

TRUMPF maintains laser application laboratories worldwide with highly qualified engineers and the most modern machinery where the feasibility of desired applications can be determined.

TRUMPF provides manufacturing solutions in the fields of laser material processing, sheet metal processing and electronics. TRUMPF has been an established innovative partner in the automotive industry worldwide for many years now. Our products and services are used in all aspects of vehicle manufacture. From the chip production for control units to the processing of new light-weight materials right to the joining processes in automotive body production. With additive manufacturing and solutions for networked production, TRUMPF enables its customers to face the challenges of the future. With its worldwide sales, service, production and development network, TRUMPF offers global support.
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