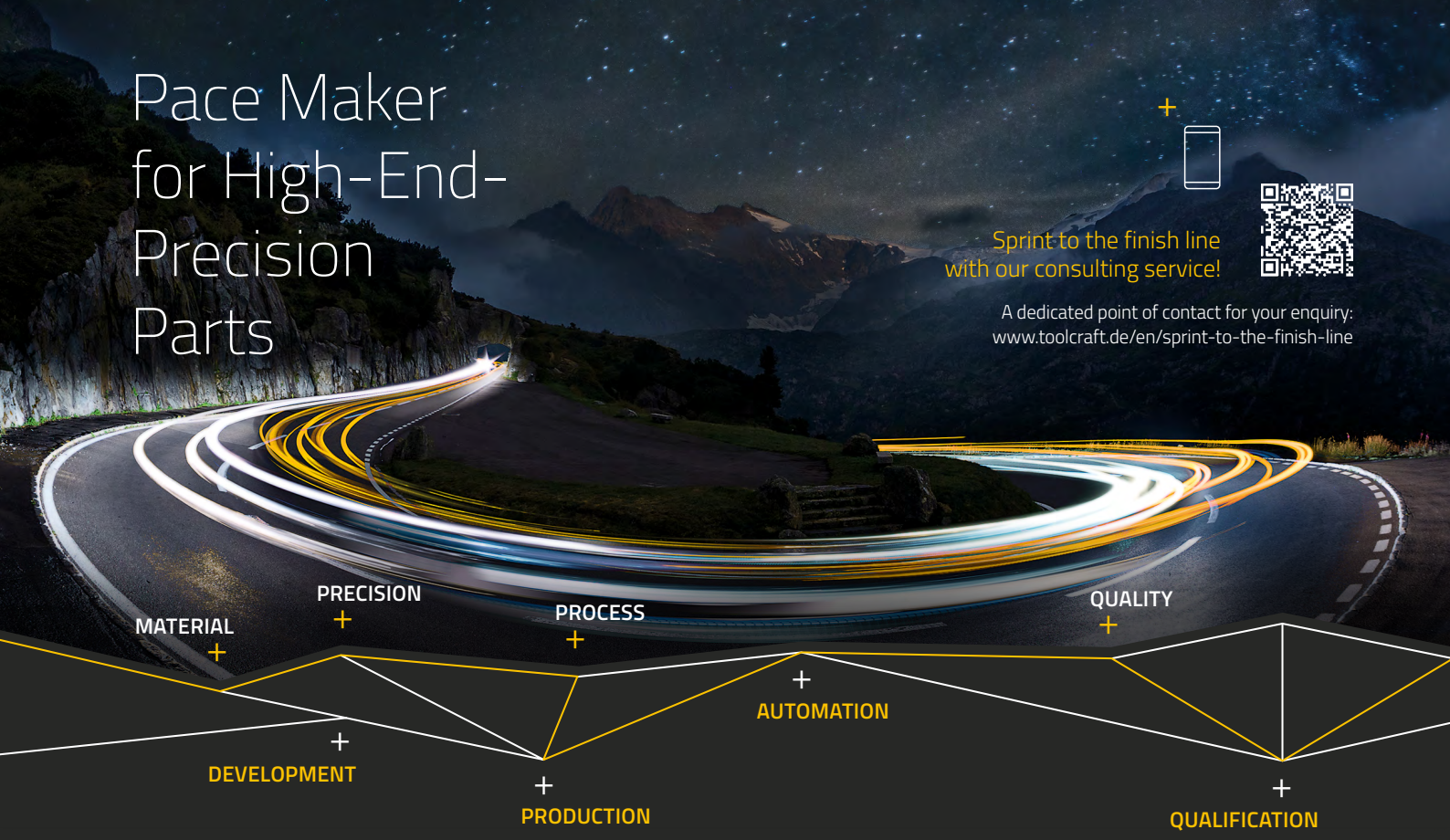
Pace Maker for High-End-Precision Parts



Sprint to the finish line with our consulting service!

A dedicated point of contact for your enquiry:
www.toolcraft.de/en/sprint-to-the-finish-line

GENERAL INFORMATION

+ Medium-sized family-owned company
+ Founded in 1989 by Bernd Krebs
+ Manufacturing of precision parts, assemblies, moulds, injection moulded parts
+ Individual automation solutions
+ Creative total solutions by innovative power realised with a modern machine park
+ High rate of certification for several sectors

CERTIFICATES

+ DIN EN ISO 9001
+ DIN EN ISO 14001
+ EN 9100
+ DIN EN ISO 13485
+ Nadcap WLD (AM)
+ Nadcap NDT (FPI)
+ DIN EN ISO 3834-2
+ Material Manufacturer according to DGRL 2014/68/EU
+ Qualified AM
+ BSFZ
+ "Umwelt- und Klimapakt"

AWARDS

+ 2024, 2019, 2016, 2013: "Bayerns Best 50"
+ 2021: Stäubli Robotics Award
+ 2019, 2010: ZEISS Supplier Award
+ 2018: ZIM Project of the Year
+ 2017: n-tv Hidden Champion Award (3rd place)

TECHNOLOGIES

+ Additive Manufacturing
+ Robotics
+ Machining
+ Injection Moulding and Mould Making
+ Joining and Welding
+ High Purity Cleaning

INDUSTRIES

+ Semiconductors industry
+ Medical industry
+ Aerospace
+ Defence technology
+ Automotive, vehicle technology and motorsports
+ Special machinery manufacturing

MEMBERS OF THE SUPERVISORY BOARD

+ Karlheinz Nüßlein
+ Christoph Hauck
+ Marc Volkhardt

CHAIRMAN OF THE SUPERVISORY BOARD

+ Bernd Krebs

FACILITIES

+ Georgensgmünd
+ Spalt
+ Yogyakarta (Indonesia)

Nadcap Administered by PRI ACCREDITED

+ CROSS DIMENSIONAL MANUFACTURING

toolcraft

With toolcraft by your side as a technology partner, you can unleash the power of innovation in the manufacture of high-end precision parts.

ADDITIVE MANUFACTURING

toolcraft uses lasers to melt down high-performance metal powders layer by layer or applies them with a powder nozzle.

MACHINES

+ 10 L-PBF machines (powder bed)
+ 3 LMD/DED machines (powder nozzle)

MATERIALS

+ Aluminium and titanium
+ Nickel-based alloys
+ High-grade and tool steels

ROBOTICS

We build flexible and universally applicable integration solutions for our customers.

BENEFITS

+ All technology components in-house
+ Project support from initial development to series production
+ Complete 'ready-to-use' solutions
+ Maximum flexibility and customised system design

SERVICES

+ Fast and simple feasibility studies under real conditions
+ Expansion of existing systems and integration of automation solutions
+ Broad expertise thanks to diverse technology areas

MACHINING

Highest precision from a single source: From state-of-the-art machining technology and high-precision finishing processes such as lapping, to innovative joining technologies (friction stir welding, vacuum brazing or TIG welding) to the management of the entire supply chain and the assembly of mechatronic components.

MACHINES

+ Over 40 CNC-controlled milling machine centres (max. 2100 x 2100 x 1250 mm)
+ 14 CNC-controlled turning- and milling machine centres (max. Ø 800 mm)
+ Vacuum furnace, convection furnace
+ Cleaning station

MATERIALS

+ Nickel-based alloys
+ Titanium and aluminium alloys
+ Stainless steels
+ Mono-crystalline materials

INJECTION MOULDING AND MOULD MAKING

We are your reliable partner for high-quality mould making and precise injection moulded parts – from the initial idea to series production. With state-of-the-art manufacturing technologies, comprehensive process expertise and flexible capacities, we deliver fast, economical and dimensionally accurate solutions.

MACHINES

+ 31 Injection moulding machines, thereof two 2K machines (150 to 2200 kN)
+ 1 Liquid silicone machine (1200 kN)
+ State-of-the-art and versatile in-house machinery for milling and grinding as well as wire and die-sinking EDM

ADDITIONAL SERVICES

+ Automated toolmaking with simulation and software solutions
+ Contract manufacturing of mould assemblies and components
+ CT evaluation and measurement
+ Optimisation of existing production processes in terms of automation and cost-effectiveness, necessary production validations

JOINING AND WELDING

We join components with the highest precision, delivering reliable joints fit for series production.

PROCESSES

+ Friction stir welding
+ Tungsten inert gas welding (TIG)
+ Laser metal deposition (DED-LMD)
+ Vacuum brazing

MATERIALS

+ Aluminium alloys
+ Copper alloys
+ Nickel-based alloys
+ and others

HIGH PURITY CLEANING

Our solutions are precise, residue-free and process-reliable, and have been specially developed for the stringent requirements in industry and engineering.

PROCESSES

+ Vacuum dry cleaning with RGA (residual gas analysis)
+ Wet cleaning in an ultrasonic tank
+ Cooling channel cleaning
+ Cleaning with pressure washer (lance)

SERVICES

+ Process reliability through ultra-fine cleaning at the sub-micrometre level for semiconductor manufacturing
+ Minimisation of particulate and molecular contamination through qualified processes
+ NASA outgassing test according to ASTM E595 for the highest requirements

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