

variomatic

Rundtaktmaschinen



MISSION
ROTARY TRANSFER

variomatic.de

For your satisfaction:

It is our declared aim to optimise your production processes. That way you can focus your resources on the important things. Just leave the small parts to us!

Any questions?

Variomatic Werkzeugmaschinen GmbH

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Those who know their roots, **will grow and be stronger tomorrow.**

The rotary-transfer principle at Variomatic has proven successful for **more than 90 years.**



**Bert Illmann,
Variomatic Managing Director**

Our rotary-transfer machines from Chemnitz reliably produce parts for a large number of customers in the most varied industries. In addition to our decades of industry experience, we rely on innovative, detailed solutions and proverbial Saxon ingenuity.

Our goal is satisfied customers

Many of our rotary-transfer machines are not used alone. In fact, many of our customers have chosen to use several of our machining centres for mass production. We would like to thank them for holding us in such esteem. Regardless of whether it's about spare parts for machines with more than forty years of service or focusing on the latest

technology and Industry 4.0 – we are there for our customers and focus on customised solutions with tradition, engineering skill and modern machinery.

We are glad to make you our promise of quality and also look forward to your project.

A handwritten signature in blue ink, appearing to be 'Bert Illmann', written in a cursive style.

Dipl.-Ing. Bert Illmann

Innovation is a tradition at Variomatic.

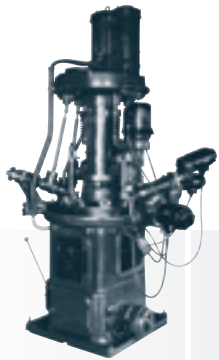
Smart developments and an eye for detail *make us a reliable partner.*

As early as the end of the 1920s, Hermann Hahn was convinced that grouping machine tools in continuous-flow production was no solution for large- and medium-scale runs. The founder of Stuttgart-based company Hahn & Kolb was already asking for several work steps on a single machine and in a single clamp setting. Hahn commissioned Bammesberger, a company from Leonberg, to start producing the first rotary-indexing machines.

Rooted in mechanical engineering, at home in Chemnitz.

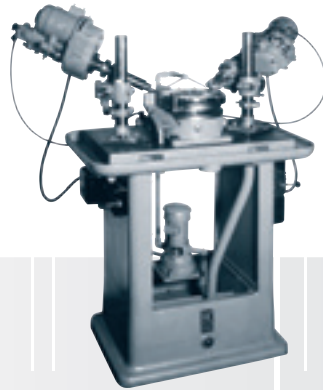
In 1975, Variomatic GmbH was formed as a subsidiary of Hahn & Kolb to bring together development and production. The product range has been continuously and successfully developed throughout the history of the company. In the 1990s, the company relocated to Chemnitz, the centre of Saxon mechanical-engi-

neering industry, to put down new roots right in the heart of an industrial region. Since 2005, Variomatic Werkzeugmaschinen GmbH has been active as an independent company, just as its founder intended. The company moved to its current location in 2008 to optimise internal processes in its own administration and industrial building and to establish opportunities for growth.



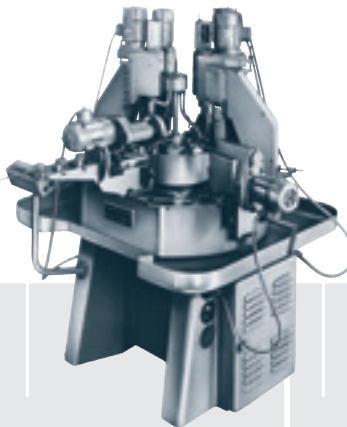
1928

Founding of the family business Bammesberger, manufacturer of the Variomatic machines until 1975.



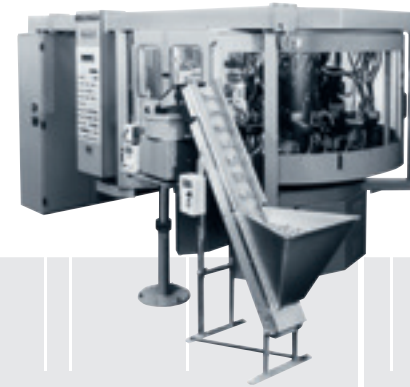
1938

Hahn & Kolb engineer and sell Variomatic rotary-indexing machine models ES, MS, T1 and T2.



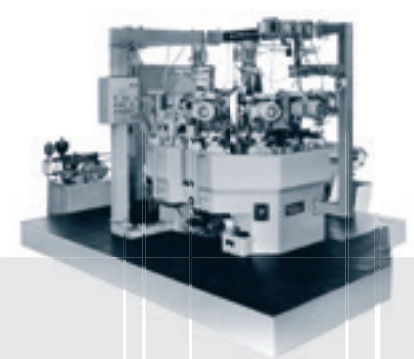
1959

Market launch of the T3 rotary-indexing machine (type 102) with 9 machining stations.



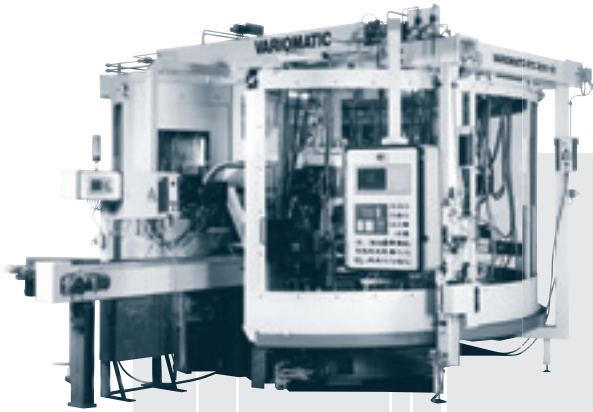
1968

Introduction of the T3-9/11 modular system. Delivery of the first T3-9 (type 112) with a 9-station indexing unit.



1978

Start of the development of the RTH under the subsidiary VARIOMATIC GMBH.



2004

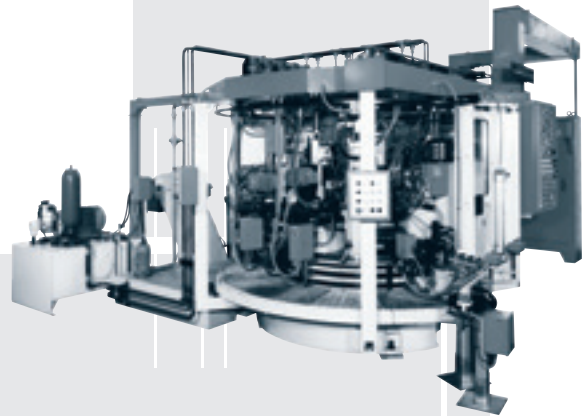
T3 and RTC series complemented by the newly developed T3P machine type.



2016 T3i

The next level – the T3i emerged from the continuous development of the T3. With even more specific production concepts, its versatility is greater than that of its predecessor.

Optional CNC-controlled machining units and an internal coolant feed have substantially extended the manufacturing possibilities. This enables the T3i to produce even more complex contours.

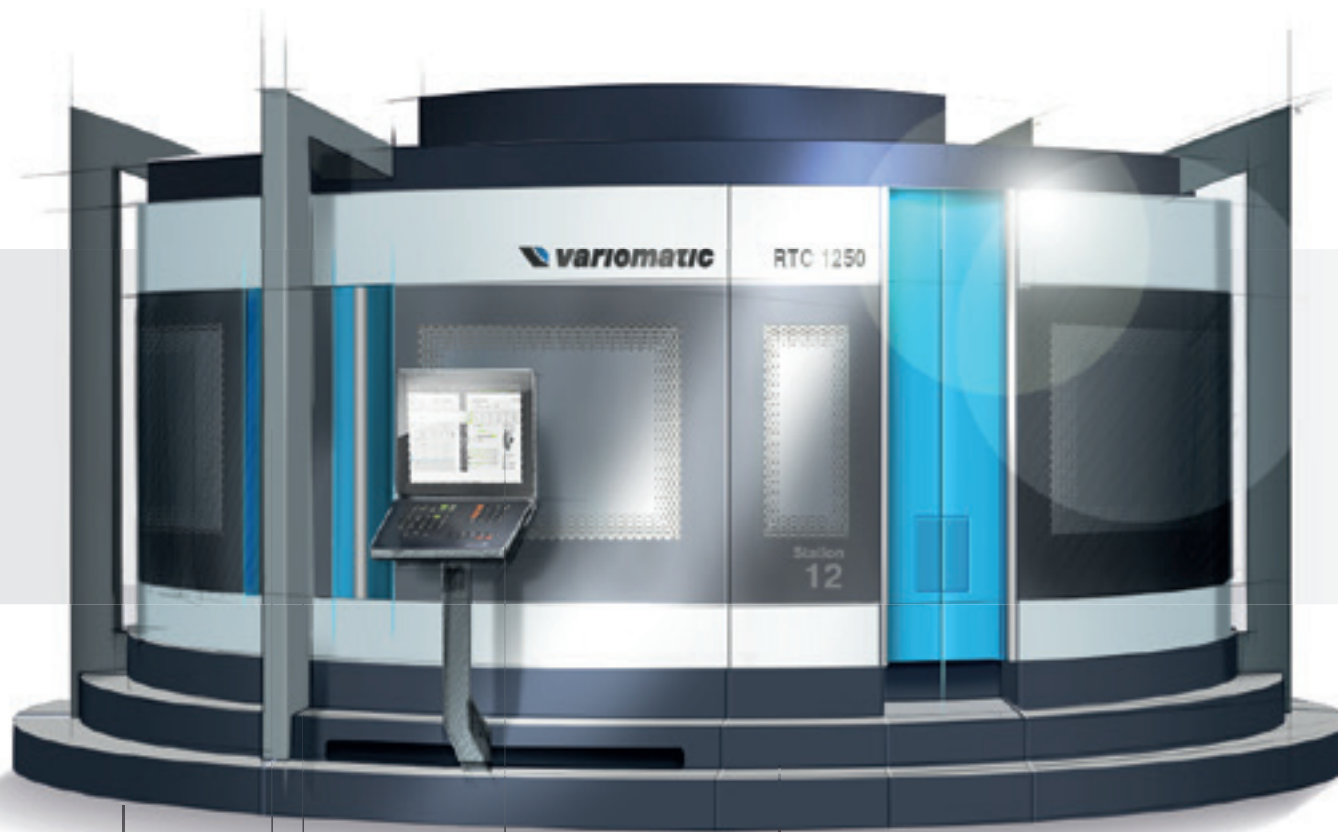


1995

Introduction of the fully CNC-controlled RTC machine series to the market and gradual replacement of the RTH.

Features of the Variomatic T3i

- Significant extension of the manufacturing range
- Rearrangement of the machine peripherals
- Flexible and rapid conversion
- Maximum customisation
- Modular configuration
- Horizontal and vertical CNC machining unit
- Optimised for tools with internal coolant feed
- Production of complex contours
- Modern ergonomic industrial design



2019 RTC 1250i

Versatile – a rotary-transfer machine that meets the requirements of ever smaller batches or the production of families of parts thanks to shorter conversion times. Intricate workpiece machining and excellent precision make the fully CNC-controlled Variomatic RTC an extremely flexible tool for medium- and large-scale runs.

Features of the Variomatic RTC

- Rapid conversion
- CNC-controlled units
- High machining precision and repeatability, compact design
- Modular, well-arranged machine peripherals
- Long service life under demanding production conditions
- Modern ergonomic industrial design

To date, more than 3,000 Variomatic machines have been supplied to five continents: customer focus, maximum reliability and state-of-the-art technologies are crucial factors for this success.

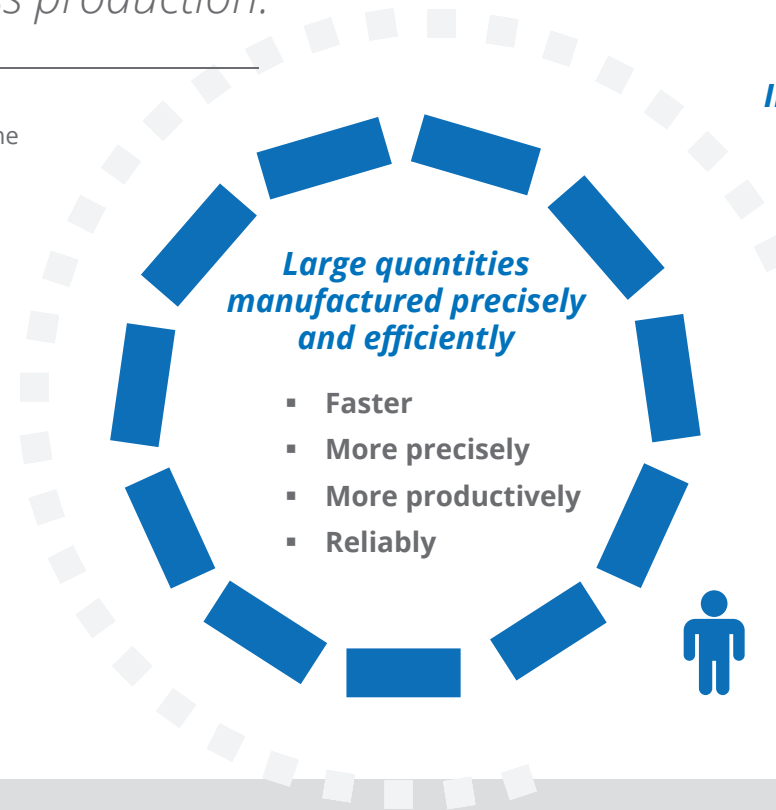


You can find out more about our rotary-transfer machines at variomatic.de or in our **product brochures**, which are available separately.

The **performance power** of state-of-the-art rotary-transfer machines.

An **ideal solution** for mass production.

Modern rotary-transfer machines are the perfect solution for all manufacturers of medium- and large-scale runs comprising aluminium, steel, brass and other materials with required quantities of more than a million parts per year. The machining steps are arranged in a circular path around a horizontal indexing table and are executed simultaneously so that, with every cycle, a finished workpiece is ejected and a new blank is supplied. This allows you to adjust the configuration of the work steps, such as milling, drilling, recessing, turning, threading or broaching, to your individual requirements.



Ingenuity refined

With the RTC and T3i models, Variomatic is continuing the visions of the early years. The performance features of the individual units complement each other perfectly, allowing us to serve a wide range of industries. All rotary-transfer machines are produced individually to specifically handle the products, production technologies and peculiarities at the site. Large quantities of micro-parts, upgrading, conversion – no problem whatsoever. Thanks to our modular system, you are always able to respond flexibly to economic factors.

PRODUCTION

From what quantity and complexity does it make sense to use a rotary-transfer machine?

Machining with
> 4 tools

Annual requirements of
> 600.000
workpieces

Workpiece
diameters
up to 80 mm

Workpiece
edge lengths
up to 100 mm

Variomatic represents tradition in mechanical engineering.

Experience makes us what we are today.

Modular, well-arranged and space-saving, our designs meet the latest technological standards. With our machine tools, you optimise your production processes and make efficient use of your resources.

Perfection from passion

Honesty, trust and continuous quality are the decisive factors for our customer relationships. We achieve this with the help of well-trained specialists who work passionately on new concepts – the result: sophisticated, unique machines.

Close to our customers

The market is constantly changing and gives us the chance to grow with it. With an eye for quality, precision and cost efficiency, the customer is the centre of our attention. Working in close collaboration, we distil requirements and tailor them precisely to the client's needs. Modern work equipment and means of communication support our workflow and motivate us to work creatively. Keeping product features and individual requests in mind is standard practice for our experts – as well as communicating across borders, time zones and cultures.

Intelligently refined

Our production is imbued with generations of expertise and the core values of German engineering, as well as a dedication to precise processing quality. Our developments reflect the constant incentive to continue to optimise our rotary-transfer machines and design them more efficiently. It is our declared aim to develop innovative products and services, fusing production technologies with smart IT so as to be best equipped for Industry 4.0. To achieve this, our experts have a lively exchange with university research facilities.

IMAGE



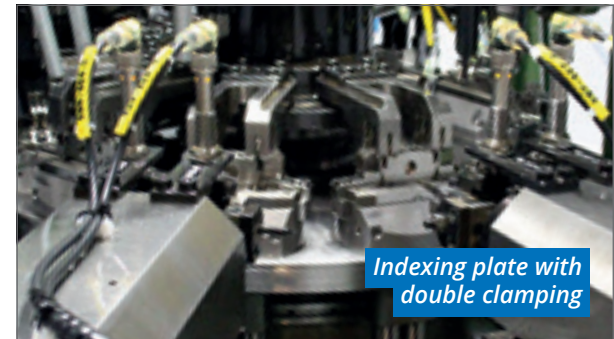
Our Variomatic machining systems are produced and constantly refined on a total area of approximately 3000 m²



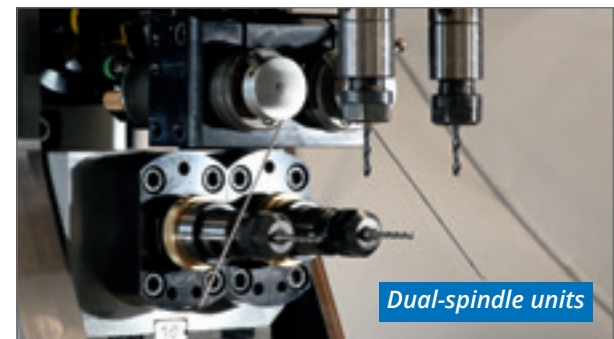
Our skilled professionals and expertise for your projects



Customised rotary-transfer machines for every requirement are made here



Indexing plate with double clamping



Dual-spindle units

Variety. Speed. Quality.

Variomatic machines offer a broadly diversified range.

The range of parts that can be produced on Variomatic machines is wide and diverse. From micro and small parts with diameters of up to 80 millimetres and lengths up to 100 millimetres, workpieces are manufactured with reliability and high productivity. The free choice of the modular stations allows for the widest range of machining tasks. Almost anything is possible: drilling, countersinking, reaming, deep drilling, thread cutting, plain and face turning, milling, sawing, broaching, gauging, mounting and much more.

Small parts, big benefits

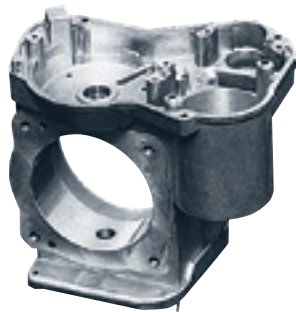
The industries that manufacture with Variomatic's systems are just as diverse as the part sizes and machining possibilities. The electrical-engineering and automotive supply industries are typical customers.

But the all-rounders are also in demand in the hydraulic and pneumatic sectors and in lock-system manufacturing. Of course, the industries mentioned above do not cover the entire spectrum of use for our machines.

The part size, machining scope and lot size are determining factors for compatibility.

The **electrical and electronics industry** primarily processes materials made of copper and aluminium, as well as their alloys, through to the new lead-free brasses for plugs, sockets, terminals, sleeves, contacts, special screws, special nuts, connecting parts and much more. Our machines are used to produce parts for engines, bodies, fuel supply, transmissions

and chassis for use in the **automotive sector**, where mainly workpieces made of steel and aluminium alloys are employed. Our rotary-transfer machines are also used for manufacturing in the **lock and door-fittings industry** – whether for lock housings, lock cores, cylinder locks, couplings or bolts. In addition to all these workpieces, numerous other parts can be manufactured and machined on Variomatic rotary-transfer machines. Contact us – we will gladly sit down with you to review how our machines can be used to meet your requirements.



Broadly diversified: A multitude of individual micro-parts can be manufactured with our machines

Service is top priority at Variomatic.

Perfect support – even after the sale.

It is our quality promise to implement solutions based on our customers' needs and taking product features, technical standards and details from daily working practice into account. From installation to handover – we provide support for our custom-made machine tools. Our customers are taken piece by piece through the specific working processes of rotary-transfer machines and receive expert training. From the very first day to many years from now, we will support you with problems or if you wish to make modifications, and we accompany your processes – regardless of whether our machines operate for 10 or 25 years.

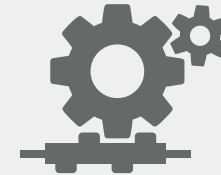
We are dedicated to the highest level of satisfaction

Whether for on-site service calls or for consultation by phone or email – we are in direct contact with our customers. If remote maintenance isn't enough, then system components, machine parts and spare parts will be on their way to you, or our experts will provide on-site advice. Thanks to our comprehensive customer service, a rotary-transfer machine from Variomatic is a long-term and wise investment that your business will reliably use to manufacture for generations.



Spare parts

Continue working effectively and with precision – we will immediately take care of worn components with the suitable spare parts for your rotary-transfer machine. This ensures trouble-free production processes.



Assemblies

If your demands or portfolio have changed, we can expand your Variomatic rotary-transfer machine with further elements. That way you remain flexible and future-proof.



Technical support

Comprehensive guidance and advice are extremely important to us. We support you via many different communication channels to keep your Variomatic turning smoothly. From face-to-face on-site support to telephone calls and emails, we will keep in touch with you and share our expertise.



Overhauls

If, after years of reliable, prolonged operation, the production accuracy diminishes, we will rework individual assemblies. In this way, we can restore the performance and precision of your rotary-transfer machine to how it used to be. The necessary components will be replaced as required or overhauled to good-as-new condition.

ENGLISH

***Experience makes us
what we are today:***

*Variomatic represents
decades of tradition in
mechanical engineering.
Our rotary-transfer
machines optimise
production processes and
are efficient in their use
of resources.
Always individual.
Always reliable.
Always Variomatic.*

