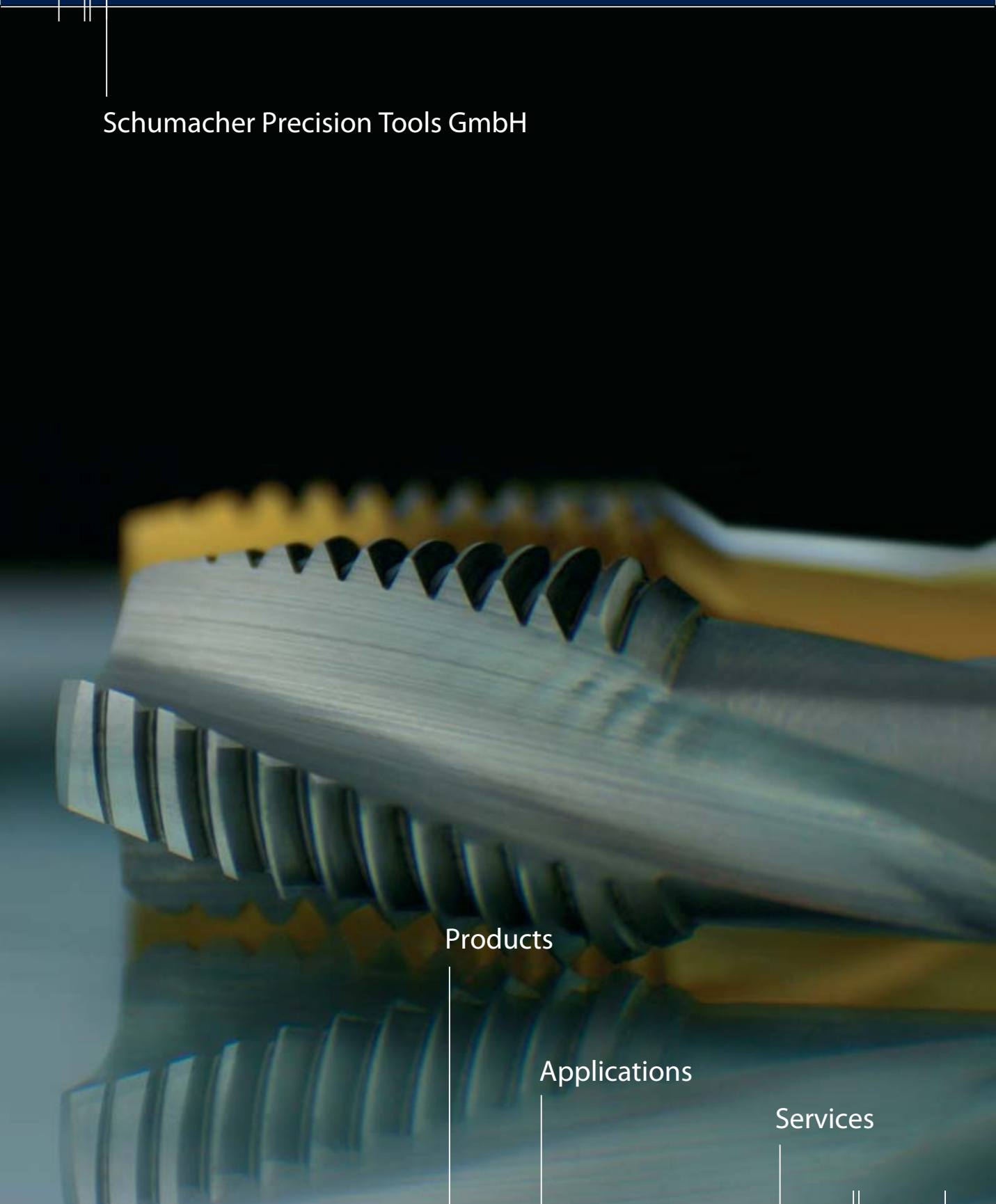


Schumacher Precision Tools GmbH



Products

Applications

Services



Precision Tools since 1918

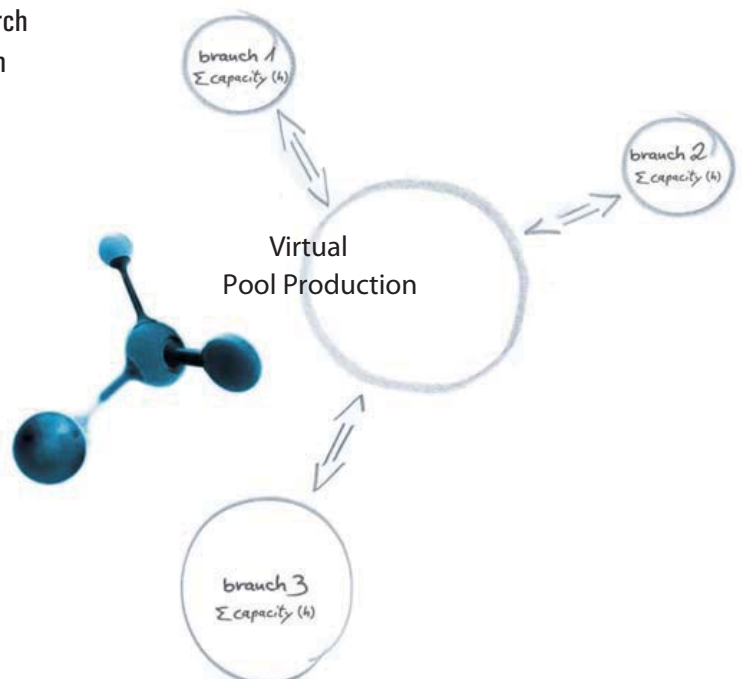
Schumacher has been producing high end cutting tools for more than 90 years.

In addition to high end products, our customers expect an array of flexible services in the sectors application-oriented R&D, stock management, logistics, and after-sales support. In a market dominated by international competition, however, such services can only be provided on a sustainable basis if built upon an excellent cost base.

The continuous and transparent flow of information and the transaction of all processes through clearly-defined interfaces with all partners represent some of the main prerequisites in this context. This framework has led our company to develop from a traditional tool factory into a service-based producer with an international network of R&D, production and logistics.

This development has been supported by sustainable research and development activities which Schumacher pursues with several prestigious universities both in Germany and at the international level.

Network Production @ Schumacher



The Schumacher principle comprises services such as:

- Development and production of high end cutting tools
- Standardization
- On-demand research and development
- Tool life tests and comparative assessments
- Technical training and seminars for your staff
- Disposition and stock management
- Tool re-sharpening and re-coating



Design for Tool Performance

In the field of R&D for high performance tools, Schumacher can draw upon an internal standardized product data base containing more than 20,000 tool types. This technological basis supports the construction of tools – such as for our ‘rapid prototyping’ – and facilitates the CAD variant construction.

An external network of reputable institutions supports Schumacher when it comes to high speed steels and full metal substrates, heat and surface treatments as well as hard coatings.



Hard Steel
by Schumacher

High Speed Cutting
by Schumacher

Product line designed for hard steel tooling

Product line with newly developed hard coatings and geometries for high speed cutting (HSC / HPC)



High End Solutions

Schumacher service engineers ensure an optimum performance with a carefully-tailored tool design (substrate, geometry, hard coating), exact parameters for the use of the tools and a continuous controlling process regarding the environment in which the tool is used.

Key objectives for the work processes include:

- + Increase of cutting speeds
- + Increase of tool life
- + Reduction of tool replacement costs
- + Increase of application range in each tool group



PM-Line 
by Schumacher

Product line from various PM-substrates
designed for high end applications

Example:
PM-Line Typhoon Series





Core Competences

Research & Development

Management tools developed jointly by Schumacher and Aachen University serve as a backbone for an integrated processing of information in our company.

Data base-oriented product design combined with DP-based systems of production and logistics guarantee the professional character requested by sophisticated customers. This holds true both for the production of tools and for online services – such as providing data on technology and logistics according to our customer requirements.

Our management tool 'network production' introduces modern networking structures to manufactures – an advance in know-how which has enabled us to provide consultant services to many companies in the precision tool industry.

RWTH Aachen University

Research & Development 
by Schumacher

Successful cooperation with prestigious universities

Flexible on-demand R&D in tool technology and development of management tools for small and medium-sized enterprises (SME)





Core Competences

High Volume
b-to-b for professionals

Schumacher holds an extensive program of tools in stock with more than 25,000 different tool types.

Tool design, labeling, and packing are provided from one source – carefully-tailored to the specific requirements of our b-to-b customers – including a stock management with a guaranteed 99% availability.

Product line with best-in-class competitiveness for pricing in high volume markets

High Volume 
by Schumacher





Core Competences

Carbide Technology

Based on the Schumacher technology data network, a partnership project with industry end users has enabled us to significantly increase cutting speeds, raise tool life and improve the thread's overall quality through the employment of newly-developed solid carbide taps as well as solid carbide forming taps.

In close cooperation with the substrate producers, the precision tools are specifically adapted to the broad variety of engine constructors' production techniques.

These new solid carbide taps are meanwhile employed under various clamping conditions and both in CNC-Machines as well as in transfer streets with automatic chucking machines.

Hence, this solid carbide technology has successfully replaced previous high speed steel taps in these applications.



Product line made of solid carbide – with internal coolant supply



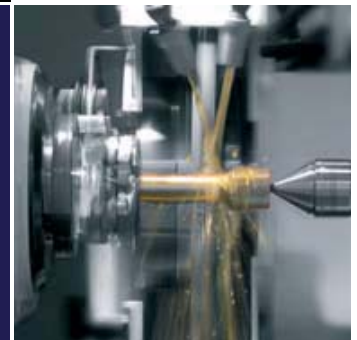


Special Solutions

Market-oriented Schumacher pricing for an excellent cost basis.

Innovative and competitive industries require short reply times for the pricing of special tools. Schumacher applies management tools which support the most efficient use of the factors time and cost.

Moreover our after-sales service has turned out to be a deciding factor for customer satisfaction in specialized industries. Our methods of communication have proven to be essential for Schumacher's competitive edge.



The 'Schumacher principle' for special tools:

Production logistics with blanks available in all common versions – also at hand for the 5 Days Speed Service

5 days

Special Tools
in 5 days



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