



HK TOOLWORLD

**MACHINING**

**HAHN+KOLB**  
GROUP



LET'S WORK TOGETHER.

# THE WORLD

# OF MACHINING



## CONTENTS

	<b>HK-Tools:</b> Our machining tools	<b>4</b>
	<b>HK-Brands:</b> Our range of brands	<b>8</b>
	<b>HK-Data:</b> Digital machining	<b>10</b>
	<b>HK-Online:</b> Online shop and navigators	<b>12</b>
	<b>HK-E-Business:</b> Optimised procurement process	<b>14</b>
	<b>HK-Mat:</b> Intelligent distribution machine	<b>16</b>
	<b>HK-Assortment:</b> Everything up to the CNC workshop	<b>17</b>
	<b>HK-Service:</b> Tool and delivery service	<b>18</b>
	<b>HK-Support:</b> More than just tools	<b>20</b>
	<b>HK-Competence:</b> Progress through knowledge	<b>22</b>







This brochure contains products and services offered  
by HAHN+KOLB Werkzeuge GmbH, Germany.  
International availability is upon request.  
Please contact our customer service for more information.



TOOLWORLD **MACHINING**





# HK-TOOLS

## THE BEST OF THE BEST

### ONLY THE BEST MAKE IT INTO THE HAHN+KOLB RANGE

We are your knowledgeable partners in implementing your machining tasks. These rely on the highest level of precision and the correct, top-quality tools. The HAHN+KOLB assortment offers you a huge selection and always provides you the best solution: In addition to operating equipment, measuring and clamping equipment, machines, hand tools and power tools, our assortment offers over 70,000 products including all the cutting tools you need for your production.









# HK-TOOLS

## OUR MACHINING PROGRAM

### AN OVERVIEW



#### Drill bits

We offer a comprehensive range for both solid carbide and HSSE drilling. Our drill bits increase your productivity with innovative geometries for a wide range of machining tasks from micro drilling, normal UNI drilling to deep hole drilling. Our range also covers all the core hole dimensions for thread drilling and forming.



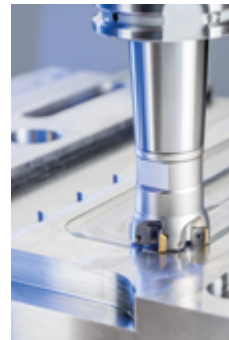
#### Indexable insert drills

State of the art modular solutions: Our indexable insert systems from ATORN, ORION, WIDIA and Walter are characterised by the highest level of process reliability and are also extremely economical. Thanks to the wide variety of substrates and geometries, a wide range of materials can be processed efficiently.



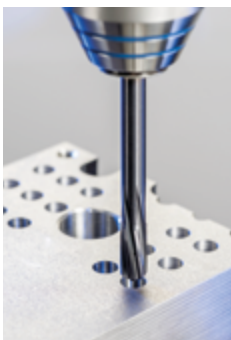
#### Monoblock milling cutters

HAHN+KOLB solid carbide tools provide maximum performance with outstanding efficiency. Specific cutting geometries such as entirely new TVC geometries enable extreme cutting data, large machining volumes and maximum process reliability.



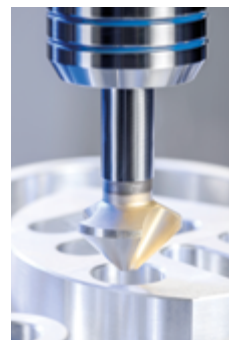
#### Modular milling cutters

In our indexable milling insert range, you will find tools specifically optimised for a wide range of requirements. Innovative details and specific indexable-insert geometries ensure efficient and economical processing of all materials.



#### Reamers

From HPC via SC to HSSE – we offer a wide range of machine reamers in a wide range of designs and geometries. On our special reamers, diameter and fit can be freely selected. But don't worry: Despite offering individual configurations, you can still rely on short delivery times.



#### Countersinks

Our huge range extends from simple deburring tools up to countersinks with extremely uneven tooth pitch and highly wear-resistant coating. HAHN+KOLB countersinking tools are the ideal complement to our products in the field of drilling.





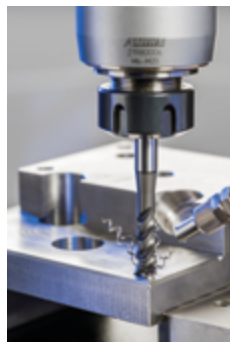
### Saws

The comprehensive HAHN+KOLB product range offers the perfect saw for every application: The entire saw range is covered, from high-performance metal circular saw blades in HSS and solid carbide design, to innovative solid carbide or bi-metal bandsaw blades.



### Threads

Threading in all conceivable materials – no problem with the right tools. HAHN+KOLB covers the entire product range for female and male thread production, thread tapping, thread forming, thread milling and dies.



### Spindles

Highly efficient and economical drilling in every dimension: HAHN+KOLB offers you innovative tool solutions specifically made to suit a variety of complex requirements and changing tasks. Tailor-made solutions from the market leader Wohlhaupter – for the ever-increasing machining requirements in many industry sectors.



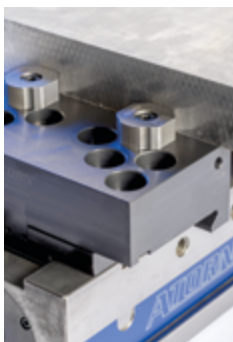
### Turning

The HAHN+KOLB turning assortment comprises a wide range of ISO indexable inserts, brackets and rods. In addition, we also cover miniature boring, grooving and knurling comprehensively.



### Clamping technology

In the field of workpiece clamping, we have the largest range of any tool dealer in Germany. Tool clamping which meets your every need: Hydro-expansion chuck mounts, shrink-fit chucks, collet chucks, precision and power chucks in sizes HSK63/100, SK40/50 and BT40/50. Shrink systems, presetting devices and accessories to complement them.



### Coolants

So that everything runs as smoothly as possible in your metal machining, we supply coolants for a wide variety of applications. We have the ideal solution for you in practically every application area. A wide selection of accessories for care and maintenance rounds off our coolant range.







# HK-BRANDS

## OUR STRONG BRANDS

### THE DIVERSE WORLD OF BRANDS AT HAHN+KOLB

Benefit from the enormous depth and breadth of our range: We provide you with the ideal tool for every application and the brand which suits you perfectly. With HAHN+KOLB, you have the choice between own-brand, manufacturer and exclusive brands – all with the certainty that each individual product is of the highest technical level.

Whether ATORN, ORION, WIDIA, Wohlhaupter or many other manufacturer brands: Each of our brands has made a name for itself due to its specially selected materials, high-quality workmanship, perfect handling – and not least its price/performance ratio.

## ATORN®

#### Special quality for the most demanding of requirements

Our tools only earn the ATORN name once they've proven themselves under the toughest conditions. With this brand, you are building on outstanding quality and a real driver of innovation in the field of machining. The full ATORN assortment is available to you through HAHN+KOLB – with over 24,000 articles ranging from drilling, milling, turning, grinding and cutting tools to measuring equipment, workshop requirements and factory equipment.

#### Your benefits:

- ⊕ Extremely broad and deep assortment
- ⊕ Manufacturer-level benchmark tests
- ⊕ Consistent product quality
- ⊕ Continuous further development by manufacturer
- ⊕ Increase in productivity
- ⊕ Predictable process reliability
- ⊕ ATORN means innovation and performance

## ORION®

#### Well-rounded performance at top prices

In the ORION brand product assortment you will find machining tools, clamping devices, measuring and testing equipment, hand tools and much, much more. Each one of the over 10,000 ORION products impresses with its functionality, safety and excellent price/performance ratio. Specially selected materials and high-quality workmanship ensure optimum handling.

#### Your benefits:

- ⊕ Excellent price/performance ratio
- ⊕ Comprehensive product range
- ⊕ Better value than manufacturer's brands
- ⊕ High level of availability
- ⊕ Fast delivery times





#### The ideal partner

We have found an ideal partner: WIDIA is a highly professional manufacturer with a long tradition. WIDIA offers around 45,000 articles for machining and sets standards for innovation in the machining industry with its brand-name products and solutions. We now have a much larger selection of products, particularly in the areas of cutting and turning, as well as milling with indexable inserts.



#### The perfect complement

In cooperation with Wohlhaupter GmbH from Frickenhausen, Germany, customers can expect the widest range of digital spindle tool products currently on the market. In the field of precision lathe tools, the different solutions are in worldwide demand due to their intelligent technology and high quality. They are highly respected by clients from a wide range of industries. The precision tools from Wohlhaupter perfectly complement the existing product range from HAHN+KOLB.



...and many more.





**HK-DATA**

**THE VIRTUAL TEST BENCH**





## DIGITAL TWINS

### Try out products while still in the planning phase

The trend towards digitalisation in production and in terms of Industry 4.0 is making further progress. The digital twin is becoming more and more essential to increase the efficiency of machining in production and to optimise workflows.

The digital twin provides a virtual image of a real machining tool and represents its properties in all digital processes. Placing machining processes into the virtual world makes it possible to simulate a wide range of processes in real-time and design them to be significantly more efficient.

The foundation for the implementation of digital processes is high-quality CAD data, to which all the product's properties, functions and process parameters are mapped. The CAD data for the digital twin of our machining products can be found in our online shop directly on the article page and is available for free download.

### Your benefits:

- ⊕ Virtual test run as early as the planning phase
- ⊕ Plant and process design can be optimised early
- ⊕ Simple commissioning and fault-free operation right from the start
- ⊕ Generation of CAD data
- ⊕ Enormous time savings and cost benefits





# HK-ONLINE

## INTUITIVE, INDIVIDUAL AND QUICK

### CUTTING VALUES ONLINE

For all HK cutting tools we maintain a comprehensive package of cutting data. Continuous testing in our development centre means you will always receive the ideal parameters for your individual processing. You can easily retrieve all relevant data in our online shop.

#### Your benefits:

- ⊕ Tested and reliable cutting data from practical experience
- ⊕ All processing parameters can be retrieved simply at any time in the online shop



### THE HAHN+KOLB ONLINE SHOP

In order to offer HAHN+KOLB customers the best possible shopping experience, the HK online shop provides a whole series of special features. The convenient product search will lead to the desired article 24 hours a day – whether by name or manufacturer number. Extensive filter functions for important product characteristics such as length, width or diameter are at your disposal.

[www.hahn-kolb.com](http://www.hahn-kolb.com)

#### Your benefits:

- ⊕ Individual prices and company conditions
- ⊕ CAD and cutting data
- ⊕ Multi-stage approval procedures
- ⊕ Budget management
- ⊕ Transactional document management
- ⊕ Delivery status tracking
- ⊕ Availability indicator
- ⊕ Create and manage multiple users
- ⊕ Simple cost centre management





## OUR ONLINE NAVIGATORS

In order to meet your requirements, we develop tailored offers and provide you with the right tools for your specific requirements. With the different navigators and configurators, we offer you products beyond the standard assortment. The systems are intuitive to use and thus allow for error-free operation.



### Tool Navigator

The navigator helps you find tools quickly by application. It also takes you to the cutting data quick finder: Simply enter the eight-digit material number of the tool.

#### Your benefits:

- ⊕ No installation required
- ⊕ Minimises search effort
- ⊕ Large selection of machining tools and compliance with all common standards



### Gauge Navigator

Internal calliper gauges, flat limit gauges, snap gauges – provide the respective gauge type and desired properties then the special navigator will find the right gauge in moments.

#### Your benefits:

- ⊕ Clear specification of gauges
- ⊕ Quick to access and easy to use
- ⊕ Automatic shopping cart generation and submission of an offer



### Workshop Navigator

With the workshop configurator, HAHN+KOLB provides you the means to set up your workshop according to your needs.

#### Your benefits:

- ⊕ Quick and easy 3D representation
- ⊕ Convenient planning down to the smallest detail
- ⊕ Advice and offers based on your plan

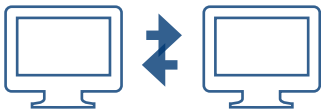


## HK-E-BUSINESS

PROCUREMENT PROCESSES

MADE EASY





#### **OCI (Open Catalogue Interface) The catalogue data interface**

An OCI interface to our online shop lets you exchange product data and shopping carts directly with your own enterprise resource planning system.

You fill the shopping cart and then the data is transferred to your enterprise resource planning (ERP) system. This direct connection speeds up your entire procurement process enormously and reduces your procurement and process costs at the same time.

##### **Your benefits:**

- ⊕ Access to current item data
- ⊕ No double entry
- ⊕ All data is in your ERP system
- ⊕ Save time with the order, the goods receipt and invoice verification
- ⊕ In addition, our online shop can also be used as a PunchOut solution for the ARIBA and COUPA platforms.



#### **EDI (Electronic Data Interchange) Electronic Data Interchange**

EDI allows a direct connection between your e-procurement system and our resource planning system. This means you can send your orders directly to our system electronically. This instant exchange of orders, order confirmations, shipping notifications and invoices reduces the manual workload and therefore also the potential for errors. Through our experience, you save time and costs.

##### **Your benefits:**

- ⊕ Increased process reliability
- ⊕ Reduced probability of error
- ⊕ Time and money savings
- ⊕ Partial steps can also be carried out with electronic data exchange.g. ordering and order confirmation.



#### **E-catalogues: Optimal interface for your electronic ordering procedure**

Our electronic catalogues and interfaces support all common formats and transmission paths. When you request the e-catalogue, you specify assortment, content and format. Our catalogue managers provide you with your own individual product catalogue. And our IT specialists will coordinate the connection to your resource planning system with you.

##### **Your benefits:**

- ⊕ Optimisation of internal procurement processes
- ⊕ Reduction in process costs
- ⊕ Availability of all the data in your resource planning system
- ⊕ Paper-free data transmission prevents transmission errors
- ⊕ Easy procurement of C parts

# HK-MAT

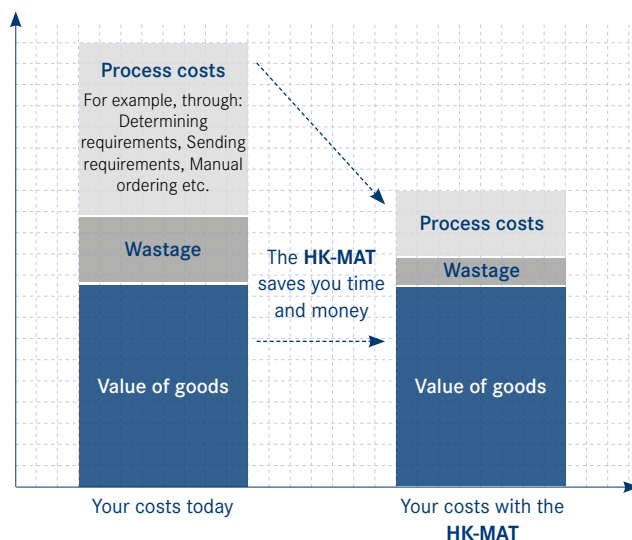
## THE SYSTEM THAT THINKS WITH YOU

### ALWAYS HAVE EVERYTHING UNDER CONTROL

With the HK-MAT, you always have your tools and all your costs at a glance. The dispenser machine ensures continuous access to the most important tools and consumables in your production and makes them available to your employees. The intelligent system monitors and logs each removal: Once an article is only available in a small quantity, a follow-up order is issued automatically. This means all of your important operating materials are available at any time.

The HK-MAT offers automated material supply. It reduces your procurement and storage costs, increases the availability of goods and reduces wastage of high-quality tools and consumables.

Depending on the usage purpose, you can choose from four different models: Drawer dispenser, flap system, spiral dispenser or rotational dispenser.



#### Your benefits:

- ⊕ Secure storage of your valuable tools
- ⊕ 24-hour stock availability
- ⊕ Lower personnel costs and more streamlined processes
- ⊕ Automated re-ordering
- ⊕ Free allocation of access rights
- ⊕ Reduced tool shrinkage, no unnecessary stock
- ⊕ Continual overview of jobs, inventory and consumption

**The bottom line is: optimised storage and inventory management as well as improved security at a lower cost.**





# HK-ASSORTMENT

## THE RIGHT TOOL

## FOR EVERY REQUIREMENT

### YOUR PERFECT CNC WORKSHOP

HAHN+KOLB offers you knowledgeable support in your workshop planning. Our expert consultants listen to your needs and analyse the conditions at your site. During the planning phase, you will receive our proposals along with a 3D plan of your future workshop. From planning through to implementation, we guarantee you the flexibility you need to realise your planned project in the best possible way. Our workshop facilities are very versatile and can be combined with each other. This means you will receive a tailor-made setup which you can integrate perfectly into your existing cutting tools and machines.

#### HAHN+KOLB for optimum factory equipment

A working environment which functions perfectly not only increases the motivation of employees, but also the efficiency of working processes. Whether in the workshop, warehouse or at the workstation: The optimal organisation of materials and tools is essential for smooth and efficient processes and short response times. HAHN+KOLB has decades of experience in the customised configuration of businesses of all sizes and structures.

#### HAHN+KOLB measuring equipment

HAHN+KOLB offers high-quality measuring and test equipment for the entire field of machining, from hand-held measuring devices and dial gauges to 3D coordinate measuring instruments, layer and wall thickness measurement right through to hardness tests, optical measurement and control devices. We also have various systems for electronic measurement data transmission and processing on offer. Our experts will be happy to give you specific advice for your requirements. Of course, our measuring and test equipment will have already been calibrated when you receive it.

### THE HK CALIBRATION SERVICE FOR YOUR MEASURING AND TEST EQUIPMENT\*

#### The HK calibration service in 5 modules:

- 1 Calibration, recalibration and repair of measuring and test equipment
- 2 On-site calibration service for stationary test equipment
- 3 On-site mobile calibration
- 4 In-house solution: a permanent laboratory in your factory
- 5 Test equipment management: We take care of administration, calibration and any necessary repairs

#### Ordering couldn't be simpler – here's how it works:

- **On-site calibration:** Get in touch with our contacts and agree an appointment specifying the type of calibration.
- **New product calibration:** Order your measuring and test equipment, specifying factory calibration.
- **Re-calibration:** Complete the returns document and send it to us together with the measuring and test equipment to be recalibrated. We'll return the goods to you by post after they have been calibrated.

\*A service of H+K Werkzeuge GmbH, Germany. For information on international availability and conditions, please contact our customer service.





# HK-SERVICE\*

## YOU CAN RELY ON US

### OUR RE-SHARPENING SERVICE

#### Highest performance, maximum service life

Get more out of your tools with the reliable and economical re-sharpening service from HAHN+KOLB. Precise re-sharpening and coating allow you to achieve their maximum performance and service life. You also lower costs through sharpening based on individual wear periods. Naturally, our service meets all the requirements of DIN EN ISO 9001.

#### We can sharpen the following tools:

- HSS and solid carbide tools
- Tools with and without cooling channel
- Milling tools
- Drilling tools
- Stepped drill bits
- Countersinking tools
- Thread tools
- Reaming tools
- Deburring tools
- Saw blades and bands

#### More performance from re-treatment and coating

If necessary, we will re-treat or coat your tools. The available coatings range from standard coatings like TIN, TiCN, TiAlN to super nitride coatings like ALOX SN<sup>2</sup> or TiN<sup>2</sup> (additional coatings for multi-faceted applications on request).

#### Your benefits:

- ⊕ Free pick-up and drop-off service
- ⊕ Secure transport thanks to HK-Toolbox
- ⊕ First class sharpening and coating quality
- ⊕ Use of state-of-the-art 5-axis CNC tool grinding machines
- ⊕ We test and measure your tools on request

### 3 QUICK STEPS – IT'S THIS SIMPLE

- 1 Complete a re-sharpening order and send it to: [nachschaerfen@hahn-kolb.de](mailto:nachschaerfen@hahn-kolb.de)  
Note any special requests such as specific geometries or coatings.
- 2 After you receive the HK Toolbox, fill it with the tools you wish to be re-sharpened. We'll collect the HK-Toolbox from you free of charge when it's ready.
- 3 Once your order has been processed, we'll return the sharpened tools to you free of charge.  
They'll be delivered within 10 to 15 business days after we receive them.

\*Services offered by HAHN+KOLB Werkzeuge GmbH, Germany.

For information on international availability and conditions, please contact our customer service.





## OUR DELIVERY SERVICE WITHIN GERMANY

### Delivery with fair postage costs

Where the order value is above €150, delivery to a chosen location within Germany is free. The only exceptions are very bulky or heavy goods, repairs or courier services you explicitly request. We will provide you with the special terms for such goods and services as required.

### Shipping costs within Germany

Order value above €150.00	<b>free delivery</b>
Order value less than €150.00	<b>€7.90</b>
Order value less than €30.00	<b>€10.90</b>

### The highest quality – signed, sealed and delivered

We supply the best highest quality in every stage of the process – you can absolutely rely on this.

HAHN+KOLB is certified to meet DIN EN ISO 9001:2008 and audited in accordance with VDA 6.2.

### Your benefits:

- ⊕ Maximum security of supply
- ⊕ More than 70,000 quality products, of which over 40,000 are permanently in stock
- ⊕ Delivery within 24 hours

## FREE CHOICE ACCORDING TO YOUR NEEDS – CHOOSE YOUR IDEAL TYPE OF DELIVERY

### Immediate delivery

Within a defined postcode area, we are able to deliver your order immediately, twice a day. You can find out the areas in which we offer express delivery from the Service tab on our website.

### Pick up in person

You can pick up products that we stock in our logistics centre yourself after ordering.

### Saturday delivery

So that work doesn't stop even at the weekend, we also deliver your goods on Saturdays.

### Scheduled delivery

With our scheduled delivery, you will receive your order on the following working day, by a certain time.

### Express delivery

Order in-stock items for express delivery and we will deliver them by 12:00 pm the next day.



**HK-SUPPORT**

**MORE THAN JUST TOOLS**





## YOUR TOOL SPECIALIST

Are you looking for a specialist you can completely rely on? HAHN+KOLB develops and realises all cutting tools according to systematic analysis. This is combined with the experience of the respective Technical Sales Manager. This means we are always able to supply the appropriate machining tool for your needs, no matter what challenges you have to deal with.

### Tailor-made service

We support your production planning with component-specific and task-related tool design matched to your individual requirements:

**Face-to-face consultation:** Your on-site specialist consultant analyses and defines the specific tasks and conditions in close dialogue with you.

**Efficient development:** Our experts design the optimal machining strategy for you using their application experience – tools and clamping systems are then matched to suit. On request we also define a corresponding measurement strategy, including measuring equipment.

**Transparent calculation:** You will receive an individually coordinated complete offer. This includes a processing strategy, tool recommendation, main period, cutting and CAD data as well as commercial installation. All without any additional documentation requirements.

**Interactive process support:** We support you during start-up and run-in, in training employees and in process optimisation.

### Your benefits:

- ⊕ Comprehensive support from experienced machining experts
- ⊕ Streamlined planning and implementation
- ⊕ Makes project planning easier
- ⊕ Maximum planning security
- ⊕ Optimal machining results
- ⊕ Bundled data and information is available electronically at any time

## HK-DEVELOPMENT

### Downtime? Not with HAHN+KOLB!

We continually test our products and ourselves. In doing so, we always strive for excellence. Good has never been good enough for us. For decades, HAHN+KOLB has been able to provide you with a comprehensive assortment of the highest quality tools which we constantly expand in order to offer innovative new developments. In addition, we work tirelessly to keep making tried and tested products

just that little bit better. We have never been satisfied with merely good results. But even at the first-class level we still find room for improvement in terms of performance and precision. This applies particularly in machining, which is dependent on the highest levels of accuracy.





# HK-COMPETENCE

## PROGRESS THROUGH KNOWLEDGE

### THE HAHN+KOLB ACADEMY IN GERMANY

Through their practical seminars, the HAHN+KOLB Academy provides you with a knowledge advantage over your competitors. Here you can benefit from the expertise and experience of our experts in a pleasant and professional environment. We will offer you interesting lectures on machining, measurement technology, hardness tests and coolants.

#### **Our Academy uses state-of-the-art methods and its essential attributes mean it is:**

- Application-oriented – courses tailored to practical applications
- Knowledgeable – excellently trained experts and speakers
- Requirements-based – bring your own workpieces so that we can discuss them as a team
- Dynamic – year-round seminars and training courses for beginners and experts
- Efficient – theoretical and practical knowledge taught in small groups
- Motivational – participation confirmation as proof of continuing education
- Customised – seminars designed to your requirements
- A success generator – increased knowledge as a competitive advantage

#### **Individual units – designed specifically for your needs**

We'd be happy to organise customised training courses and individual seminars for you. Here are some examples:

- Individual advice on milling strategies
- Optimise your tool use
- Agree on the specific applications to be covered
- Ensure that your equipment is being used as efficiently as possible



Try the innovation for yourself in the HAHN+KOLB technology centre in Ludwigsburg, Germany.



Tailor-made training at the HAHN+KOLB Academy





## THE HAHN+KOLB TECHNOLOGY CENTRE AT THE COMPANY'S HEADQUARTERS

What you learn at HAHN+KOLB's state-of-the-art Technology Centre will be immediately relevant to the work you do. Experience product highlights close up, from a range of over 70,000 articles. Across a total floor space of 450 square metres, tools for cutting, measuring and testing are on display. The highlight of the Technology Centre is the 5-axis machining centre which allows us to demonstrate impressive high-performance machining. Take part in one of our seminars and see our highest-performing products for yourself.

## WE ARE READY TO HELP

Our professionals are always ready to answer any questions. Whether by telephone or directly on site: Your HK machining specialist will advise you individually and work with you to create the ideal solution. Thanks to many years of practical experience, our experts quickly recognise your specific needs and support you in optimising your productivity. And our application engineers develop the best machining strategy in dialogue with you. They support you actively in the planning of operations, standing times, tool selection and tool use.

### Product specialists

The HAHN+KOLB specialists can advise you one-to-one, both via telephone and at your own site. Our expertise in the areas of measuring and testing technology and machining, as well as workshop equipment and handling, is at your disposal.

### Field service

Our sales staff will give you expert advice, because they know your industry. That means that you will always hear new ideas that can help you to work even more efficiently and economically.

### Sales office

The HAHN+KOLB sales office is a friendly point of contact that you can reach by telephone. Please call us if you have any questions regarding making an order or order processing, or if you want to benefit from any of our services.

### After-sales service

Our after-sales service, will provide you with specialist support for issues such as repairs, warranties, re-sharpening and recalibrating — even after your purchase is complete.

# LET'S WORK TOGETHER.



**ORDER FROM OUR ONLINE SHOP:**

[WWW.HAHN-KOLB.COM](http://WWW.HAHN-KOLB.COM)



**ORDER BY EMAIL:**

[EXPORT@HAHN-KOLB.DE](mailto:EXPORT@HAHN-KOLB.DE)



**ORDER BY PHONE:**

+49 7141 498-40

This brochure contains products and services offered by HAHN+KOLB Werkzeuge GmbH, Germany.  
International availability is upon request. Please contact our customer service for more information.

**HAHN+KOLB**  
GROUP



LET'S WORK TOGETHER.

**HAHN+KOLB WERKZEUGE GMBH**

Schlieffenstraße 40  
71636 Ludwigsburg,  
Germany

Tel. +49 (0) 7141 498-40  
Fax +49 (0) 7141 498-4999  
[export@hahn-kolb.de](mailto:export@hahn-kolb.de)  
[www.hahn-kolb.com](http://www.hahn-kolb.com)

Subject to change and errors.  
The current terms and conditions of HAHN+KOLB  
Werkzeuge GmbH apply.  
©2018 HAHN+KOLB Werkzeuge GmbH  
No. 6870/SAP 2803