



Tools • Machine Tools



Tools

Metrology and
Testing Equipment

Workshop
Equipment

Electric Tools
and Machine
Tools

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OUR NEW CATALOGUE NAVIGATION:

Quicker finding.
Easier orders.

The HAHN+KOLB catalogue provides you with more than 60,000 items for perfect production. To allow you to find and order the suitable products even quicker, we have made the orientation as easy as possible.

HAHN+KOLB GROUP		HAHN+KOLB GROUP		General tools Chapter overview	
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OVERVIEW PAGES

The first double page of every section offers you a quick overview of the contents.

FIGURES

Direct reference to product or selection page. Exemplary figures help you to find searched items quicker and more accurately.

COLOUR CODE

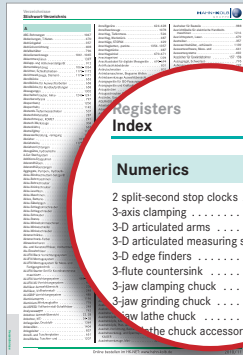
Colours indicate the fastest route to the sections:

- Cutting Tools
- Clamping Tools
- Measurement Tools
- Testing Equipment
- Workshop Equipment
- General Tools
- Diamond tools and Chemistry
- Electro-tools and Machines

ORIENTATION

DIRECTORIES

At the end of the catalogue you can find various directories for simple product selection.



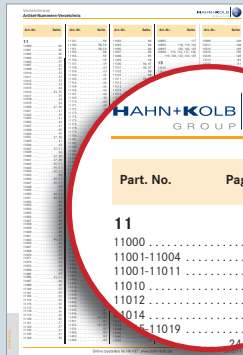
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Keyword index

All products are sorted alphabetically. How to find an item on the basis of its name.
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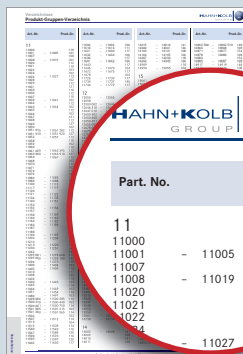


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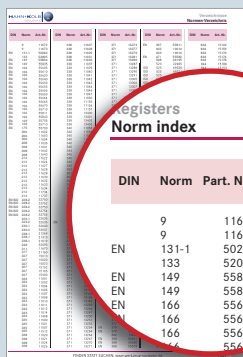


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Norm index

All important DIN norms sorted in ascending order. How to get quick information what DIN norm is fulfilled by an item.
Page 1388.

METAL CUTTING TOOLS

CLAMPING TOOLS

MEASUREMENT TOOLS

TESTING EQUIPMENT

WORKSHOP EQUIPMENT

GENERAL TOOLS

DIAMOND TOOLS AND CHEMISTRY

ELECTRO-TOOLS AND MACHINES

REGISTERS

OUR ORDER SYSTEM:

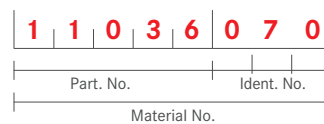
When and how you like.

We need three details from you for your order:

1. **QUANTITY** (number of items)
2. **8-DIGIT MATERIAL NUMBER**
3. **ITEM NAME** (for testing reasons)

Every item also has an 8-digit material number. It consists of the 5-digit part number and the 3-digit ident. number. Both are printed in **RED** in the catalogue.

Ø d2	d2	d1	Ident. No.	U. pr. €
h6 mm	mm	mm		
6	57	93	058	O.R.
6	57	93	060	O.R.
8	63	101	065	O.R.
8	69	109	068	O.R.
8	69	109	070	O.R.
...



Dear HAHN+KOLB Group Customers,



We know from our numerous service meetings that this HAHN+KOLB 2010/11 catalogue will again be an important piece of support in your day-to-day work.

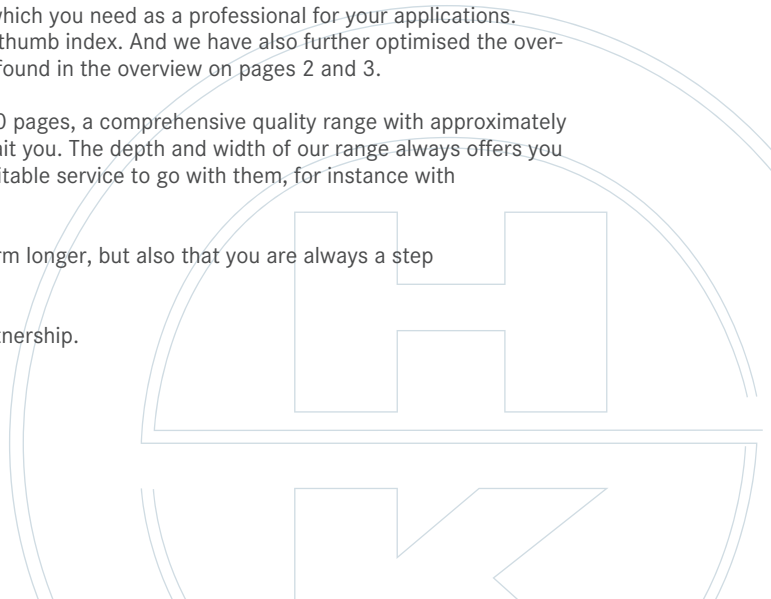
We have therefore gone to great lengths to make our catalogue even more convenient in its use to make it quicker and easier for you to find precisely the products which you need as a professional for your applications. Absolutely new, for instance, is the quick navigation with a punched thumb index. And we have also further optimised the overview pages for you. All new and proved orientation elements can be found in the overview on pages 2 and 3.

You can be sure to find what you are looking for: On more than 1,400 pages, a comprehensive quality range with approximately 60,000 top-quality products, new developments and innovations await you. The depth and width of our range always offers you precisely the products you need. And we will also provide you the suitable service to go with them, for instance with services such as resharpener, repairs and calibration.

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We wish you successful business and look forward to working in partnership.

Gerhard Heilemann
CEO



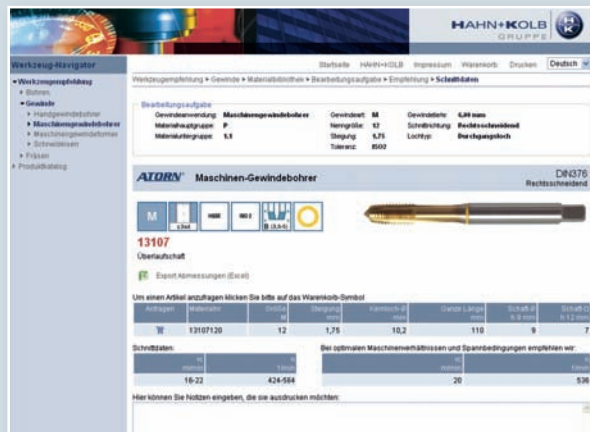
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- Simple selection of application and material.
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- Display of the suitable tool with all information and recommended cutting values.

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

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PICTOGRAMS CUTTING TOOLS













CUTTING MATERIALS AND COATINGS

HSS High-performance fast-operating steel	HSSE High-performance fast-operating steel with cobalt	HSSE-PM Powder-metallurgical HSSE steel	HSSE Co 8 High-performance fast-operating steel with 8% Co	HM Carbide	VHM Solid carbide
VHM-TIAlN Solid carbide with a titanium aluminium nitride coating	 Diamond-coated				

TYPE, PROFILES, SHAPES

Typ N Normal gearing	Typ H For hard materials	Typ W For soft materials	Typ NR rough gearing	Typ NF Roughing simple gearing	Typ HR Fine string gearing
Typ HF Roughing-Simple gearing for hard materials	Typ WF Rough simple gearing for soft materials	Typ U4 Twist drill for universal use	Typ NV Standard drill with reinforced core	Typ VA Twist drill for VA processing	Typ TLP Twist drill with deep hole profile
 Concave	 Convex	 Tooth shape B	 Edge protection chamfer 45°	SEET Indexable insert type, shape and size 12T3	 Section shape and length A (6-8)

APPLICATIONS MILLING

 Slot drill	 Circumferential milling	 Radius milling (outside)	 T-slot milling	 Keyway milling	 Angular milling
 Copy milling	 Torus milling	 Circular milling	 90° angular milling	 45° face milling	 e.g. 60° chamfer milling

SHANK

HA Straight shank HA	HB HB cylinder shaft	MK MK cylinder shaft	 Clarkson shaft
--------------------------------	--------------------------------	--------------------------------	---

USAGE NOTES

 Cutting direction use	HPC >>ap>>Vc → High-performance cutting machining with high delivery and high feed	HSC <<ap<<Vc → High-speed cutting machining with low delivery and very high feed
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TOLERANCES

H7 Tolerance zone	ISO 2 Tap tolerance zone	DIN 13 6g Die tolerance class
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


ANGLE ON THE TOOL

 twist angle 44°/45°/46°	 Angle of tip 135°	 Countersinking angle 90°	 Twist angle on reamer 0°
--	--	---	---

THREAD TYPE

M Metric ISO thread	MF Metric ISO fine thread	BSW British Standard Whitworth thread	G Pipe thread	Pg Armoured pipe thread	Tr Trapezoidal thread
NPT National pipe taper thread	UNF Unified national fine thread				

THREAD USAGE

 Tap for blind hole	 Tap for through hole	 Tap for through hole and blind hole with maximum thread depth $\le 3x d$
---	---	---

OTHER DATA

Z 4 Cutter number tooth number	IK Internal cooling	 Drilling depth relating to the nominal diameter 3xD
--	-------------------------------	--

MATERIALS








 Material group P steel materials	 Material group P/H high-strength steels	 Material group M Non-corroding steel	 Material group N NE metals	 Material group K casting materials	 Material group S Difficult-to-machine materials
 Material group H hard materials					

TABLE OF APPLICATIONS

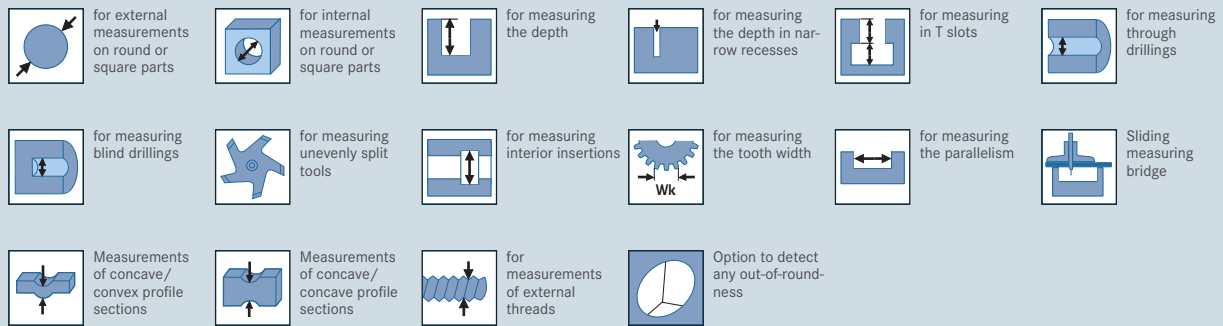
Application Nr.	Steel (N/mm ²)			Stainless steel		Alu		Brass		Bronze		Plastics	Graphite/G(C)FK	GG(G) GTW	Ti-alloy	Nickel alloy
	<700	<1000	<1300	martens.	austenit.	kurz	lang	kurz	lang	kurz	lang					
11175	●	●	○	●	●	●	●	●	●	●	●	○	○	●	●	○

● Main application ○ Secondary application

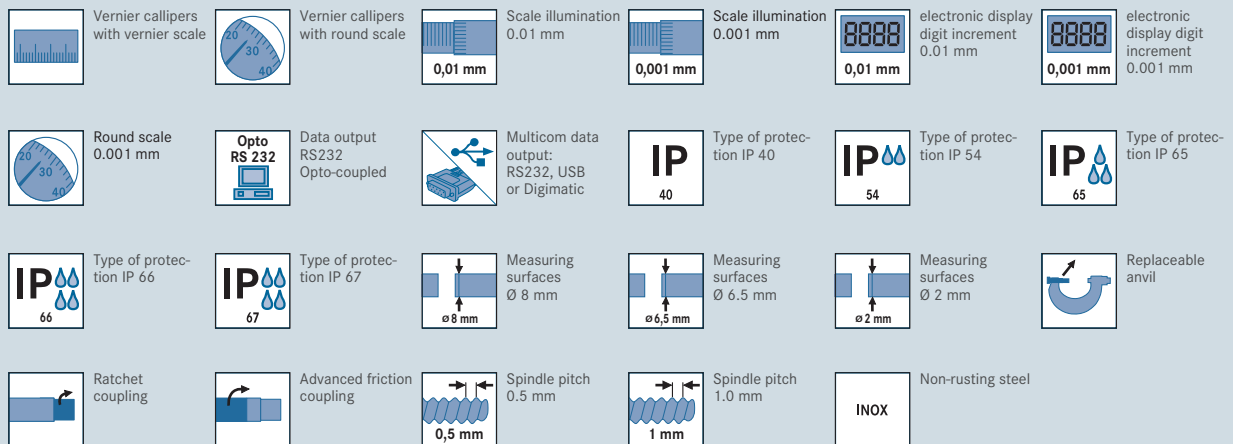
PICTOGRAMS MEASUREMENT AND TESTING EQUIPMENT

VERNIER CALLIPERS AND MICROMETERS

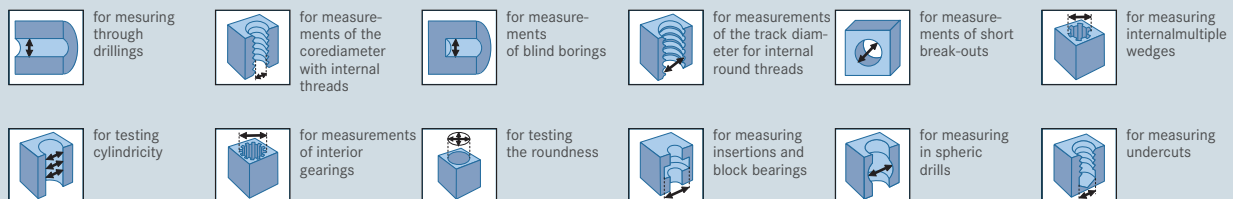
PICTOGRAMMES FOR USE



PICTOGRAMMES FOR THE CHARACTERISTICS



COMPARISON DEVICES



SCALES

PICTOGRAMS ON FUNCTION AND PROPERTIES

