



BLUE HITS

VALID UNTIL
31/10/2025

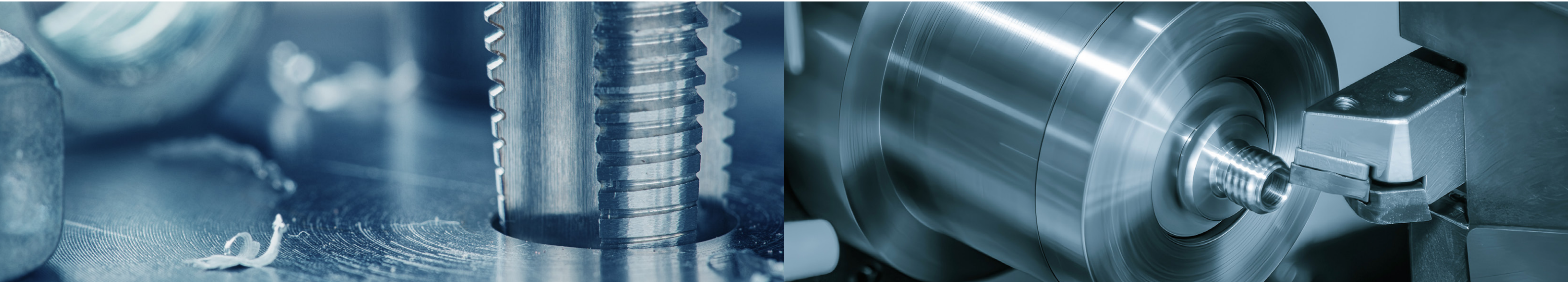
THREAD EXPERTISE:
FROM MANUFACTURE
TO MEASUREMENT

Discover **EXCITING PRODUCTS**
at unbeatably **LOW PRICES**.

HAHN+KOLB
GROUP



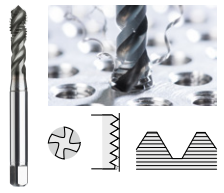
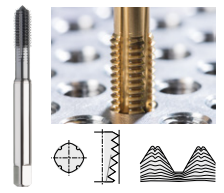
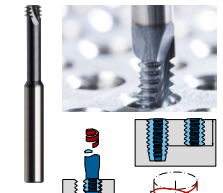
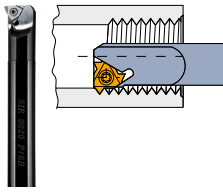
LET'S WORK TOGETHER.



YOUR EXPERT PARTNER IN THREAD PRODUCTION - INTERNAL THREADS

HAHN+KOLB covers all manufacturing processes for internal thread cutting. More than 13,000 products are involved in the manufacture and testing of threads. With our innovative tools we can manufacture, measure and test threads in all material groups and in accordance with different standards. High-performance thread cutting with universal screw tapping, drill thread cutting in hardened steel 67 HRC, thread forming with allowance and thread cutting of round profiles in titanium are typical requirements of our customers.

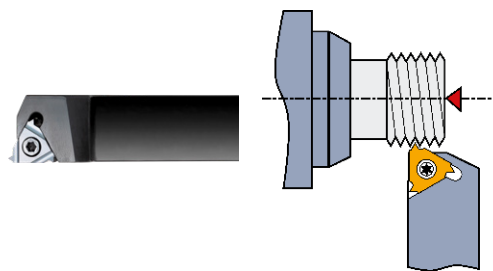
The following diagram shows the different procedures and assesses them with regard to the most important criteria.

	Thread cutting	Thread forming	Milling cutter	Thread-cutting
				
Advantages				
Speed	++	+++	+	+
Service life	+	++	++	++
Surface quality	+	+++	++	++
Variability	+	++	+++	+++
Process stability	+	+	+++	+++
Materials				

YOUR EXPERT PARTNER IN THREAD PRODUCTION - EXTERNAL THREADS

HAHN+KOLB covers all manufacturing processes for external thread production. More than 4,000 products are involved in the manufacture and testing of threads. With our innovative tools, we can manufacture, measure and test external threads in all material groups and in accordance with all standards.

The following diagram shows the different procedures and assesses them with regard to the most important criteria.

	Thread-cutting	Threading die
		
Speed	++	+++
Service life	+++	+
Surface quality	+++	+
Variability	+++	+
Process stability	+++	++
Materials		

YOUR VALUABLE PARTNER IN THREAD PRODUCTION FOR ALL APPLICATIONS

Mechanical engineering

Pharma

Architecture + construction

Medical technology

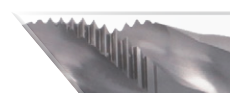
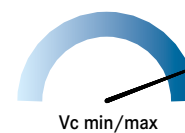
Offshore oil/gas technology

THE NEW UNIVERSAL HIGH-PERFORMANCE SCREW TAP

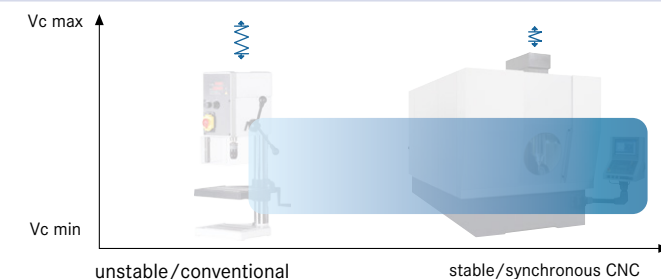
UNI MAX 45TiCN screw tap range for universal use up to 1,200 N/mm²
High performance screw taps in HSSE-PM design developed for a wide range of materials on all machine and thread cutting types, with excellent value for money due to the TiCN coating.



UNI MAX 45TICN CONTROL SCREW TAP
for universal use up to 1200 N/mm²

**Performance:**[illegible]

Conditions of use:



THE BESTSELLER

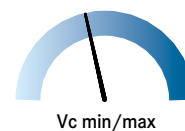
Our bestseller in the HSSE version developed for a wide range of materials on all machine and thread cutting types, with excellent value for money.



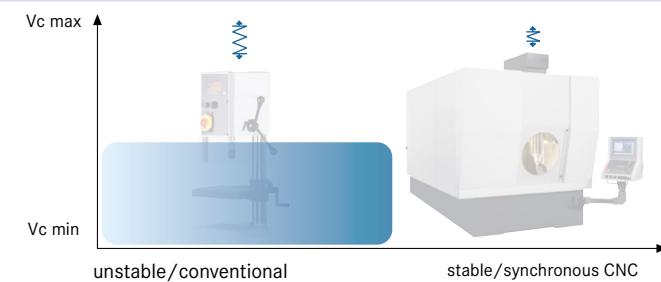
UNI 40 CONTROL SCREW TAP, BLACK RING
for universal use up to 1,000 N/mm²

**Performance:**

P 1000									
P 1300									
M									
K									
N									
S									
H									



Conditions of use:



ATORN UNI TYPE MAX45° HSSE-PM TiCN SCREW TAP

Universal use up to 1,200N/mm²

THE INNOVATIVE PRODUCT FOR YOUR RANGE

Application: For producing metric threads on CNC or conventional machines in steel, stainless steel, non-ferrous metals, cast iron and special alloys up to 1,200 N/mm².

Advantage:

- Innovative universal geometry for a wide range of materials ensures maximum flexibility during production
- Extremely high level of process reliability and long service life due to the high-performance cutting material HSSE-PM and coating



No. 13000



No. 13001



No. 13003

Application	Steel (N/mm ²)			Stainless steel		Aluminium		Brass		Bronze		Plastics	Graphite G(C)FK	GG(G) GJMW	Titanium alloy	Nickel alloy	Super alloy	Hard materials	
	<700	<1,000	<1,300	Martensitic	Austenitic	short	long	short	long	short	long							<55 HRC	<65 HRC
	20	14	10	8	9	22	22	17	19	17	18	13		18	7	6	6		

Cutting material							HSSE PM		HSSE PM		HSSE PM	
Surface							TiCN		TiCN		TiCN	
Tol.							6HX		6HX		6HX	
Notch shape							B		C		E	
Helix angle							0°		45°		0°	
Coolant supply							External		External		External	
						DIN	CI 13000... Ref. no.		CI 13001... Ref. no.		CI 13003... Ref. no.	
M1	0.25	0.75	40	2.5	2.1	371	010	24.10	010	26.80	-	-
M1.1	0.25	0.85	40	2.5	2.1	371	011	24.10	011	26.80	-	-
M1.2	0.25	0.95	40	2.5	2.1	371	012	24.10	012	26.80	-	-
M1.4	0.3	1.1	40	2.5	2.1	371	014	22.20	014	23.40	-	-
M1.6	0.35	1.25	40	2.5	2.1	371	016	22.20	016	23.40	-	-
M1.7	0.35	1.35	40	2.5	2.1	371	017	20.90	017	22.20	-	-
M1.8	0.35	1.45	40	2.5	2.1	371	018	20.90	018	22.20	-	-
M2	0.4	1.6	45	2.8	2.1	371	020	20.00	020	20.50	102	20.60
M2.2	0.45	1.75	45	2.8	2.1	371	022	18.30	022	20.50	-	-
M2.3	0.4	1.9	45	2.8	2.1	371	023	18.30	023	20.50	-	-
M2.5	0.45	2.05	50	2.8	2.1	371	025	17.90	025	20.30	-	-
M2.6	0.45	2.15	50	2.8	2.1	371	026	17.90	026	19.10	-	-
M3	0.5	2.5	56	3.5	2.7	371	030	15.50	030	17.20	103	17.80
M3.5	0.6	2.9	56	4	3	371	035	24.50	035	24.20	-	-
M4	0.7	3.3	63	4.5	3.4	371	040	16.20	040	17.80	104	18.50
M4.5	0.75	3.75	70	6	4.9	371	045	20.80	045	22.90	-	-
M5	0.8	4.2	70	6	4.9	371	050	16.80	050	18.00	105	18.90
M6	1	5	80	6	4.9	371	060	18.60	060	19.10	106	19.10
M7	1	6	80	7	5.5	371	070	23.40	070	24.00	-	-
M8	1.25	6.8	90	8	6.2	371	080	21.50	080	22.70	108	22.70
M10	1.5	8.5	100	10	8	371	082	27.00	082	27.60	110	27.60
M12	1.75	10.2	110	9	7	376	100	34.20	100	34.80	112	34.80
M14	2	12	110	11	9	376	120	41.00	120	41.60	114	41.60
M16	2	14	110	12	9	376	160	46.60	160	48.40	116	48.40
M18	2.5	15.5	125	14	11	376	180	61.00	180	66.00	-	-
M20	2.5	17.5	140	16	12	376	200	76.00	200	79.00	120	79.00
M22	2.5	19.5	140	18	14.5	376	220	84.00	220	84.00	-	-
M24	3	21	160	18	14.5	376	240	102.00	240	106.00	124	106.00
M27	3	24	160	20	16	376	270	128.00	270	132.00	-	-
M30	3.5	26.5	180	22	18	376	300	152.00	300	158.00	-	-
												Unit price, €

ATORN UNI TYPE 40° CONTROL HSSE SCREW TAP, BLACK RING

Universal use up to 1,000 N/mm²

THE BESTSELLER

Application: For producing metric threads on CNC machines or conventional machines in steel, stainless steel, non-ferrous metals and cast iron up to a strength of 1,000 N/mm².

Advantage:

- universal use for maximum flexibility
- innovative cutting edge geometry ensures high process reliability even under difficult machining conditions



No. 13121



No. 13125

Application	Steel (N/mm ²)			Stainless steel		Aluminium		Brass		Bronze		Plastics	Graphite G(C)FK	GG(G) GJMW	Titanium alloy	Nickel alloy	Super alloy	Hard materials	
	<700	<1,000	<1,300	Martensitic	Austenitic	short	long	short	long	short	long							<55 HRC	<65 HRC
	18	12	8	8	8		18		19		18	15		15					

Cutting material							HSSE		HSSE	
Surface							Vaporised		Vaporised	
Tol.							ISO 2 (6H)		ISO 2 (6H)	
Notch shape							B		C	
Helix angle							0°		40° (right)	
Coolant supply							External		External	
						DIN	CI 13121... Ref. no.		CI 13125... Ref. no.	
M3	0.5	2.5	56	3.5	2.7	371	030	8.25	030	8.75
M4	0.7	3.3	63	4.5	3.4	371	040	8.25	040	8.75
M5	0.8	4.2	70	6	4.9	371	050	8.95	050	8.95
M6	1	5.0	80	6	4.9	371	060	8.95	060	8.95
M8	1.25	6.8	90	8	6.2	371	080	10.70	080	11.20
M10	1.5	8.5	100	10	8	371	100	12.60	100	13.00
M12	1.75	10.2	110	9	7	376	120	18.40	120	18.80
M14	2	12.0	110	11	9	376	140	26.80	140	26.80
M16	2	14.0	110	12	9	376	160	28.00	160	28.00
M18	2.5	15.5	125	14	11	376	180	45.40	180	44.80
M20	2.5	17.5	140	16	12	376	200	46.00	200	48.40
M22	2.5	19.5	140	18	14.5	376	220	72.00	220	66.00
M24	3	21.0	160	18	14.5	376	240	74.00	240	77.00
M27	3	24.0	160	20	16	376	270	122.00	270	124.00
M30	3.5	26.5	180	22	18	376	300	142.00	300	146.00
M33	3.5	29.5	180	25	20	376	330	178.00	330	178.00
M36	4	32.0	200	28	22	376	360	214.00	360	216.00
M39	4	35.0	200	32	24	376	390	336.00	390	342.00
										Unit price, €

THE ENTIRE RANGE CAN BE FOUND ONLINE AT WWW.HAHN-KOLB.COM

ATORN UNI AND VA TYPE THREAD FORMER

Universal use up to 1,200N/mm²

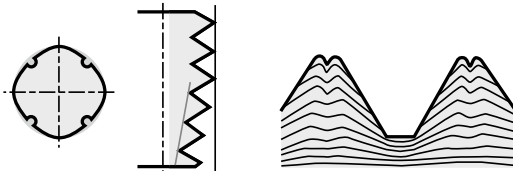
For producing metric threads on CNC or conventional machines in through holes and blind holes.



No. 13392



No. 13395



Steel (N/mm ²)			Stainless steel		Aluminium		Brass		Bronze		Plastics	Graphite G(C)FK	GG(G) GJMW	Titanium alloy	Nickel alloy	Super alloy	Hard materials	
<700	<1,000	<1,300	Martensitic	Austenitic	short	long	short	long	short	long							<55 HRC	<65 HRC
28	12	10			30	40	30	40	25	35	30							
25			18	20	40	60	25	40	20	30								

Cutting material						HSSE	
Surface						TiCN	TiN
Tolerance of screw tap						ISO 2X (6HX)	ISO 2X (6HX)
Notch shape						C	C
Application type/machine type						CNC conventional	CNC conventional
Coolant supply						External	External
DIN						CI 13392... Ref. no.	CI 13395... Ref. no.
							
mm	mm	mm	mm	mm	mm		
M1	0.25	0.9	40	2.5	2.1	371	210 64.00 - -
M1.2	0.25	1.1	40	2.5	2.1	371	212 64.00 - -
M1.4	0.3	1.27	40	2.5	2.1	371	214 59.00 - -
M1.6	0.35	1.45	40	2.5	2.1	371	216 57.00 - -
M2	0.4	1.85	45	2.8	2.1	371	220 39.80 120 41.00
M2.5	0.45	2.33	50	2.8	2.1	371	225 46.20 125 47.40
M3	0.5	2.8	56	3.5	2.7	371	230 30.20 130 30.60
M4	0.7	3.7	63	4.5	3.4	371	240 39.20 140 40.40
M5	0.8	4.65	70	6	4.9	371	250 46.20 150 47.40
M6	1	5.55	80	6	4.9	371	260 46.20 160 47.40
M8	1.25	7.4	90	8	6.2	371	280 56.00 180 56.00
M10	1.5	9.3	100	10	8	371	300 64.00 200 68.00
M12	1.75	11.2	110	9	7	376	320 91.00 220 93.00
M14	2	13	110	11	9	376	340 114.00 240 116.00
M16	2	15	110	12	9	376	360 138.00 260 144.00
M18	2.5	16.8	125	14	11	376	380 156.00 - -
M20	2.5	18.8	140	16	12	376	400 178.00 - -
M22	2.5	20.8	140	18	14.5	376	420 240.00 - -
M24	3	22.5	160	18	14.5	376	440 252.00 - -
M27	3	25.5	160	20	16	376	470 288.00 - -
M30	3.5	28.2	180	22	18	376	500 308.00 - -
						Unit price, €	

ATORN SC COMBINATION DRILL-AND-TAP MILLING CUTTER FOR INTERNAL THREAD

For universal use up to 68 HRC

Application: Drilling and thread milling in a single step in soft and hard machining.

Advantages:
Very high machining speed and service life, particularly for hard machining of steels
High profitability and process stability

Note:
-55 HRC with emulsion for sufficient cooling and chip removal!
>55 HRC with air for sufficient cooling and chip removal!

Process steps:
① Tool moves to starting position, centred above thread position
② Begin with circular milling motion
③ Circular drill thread milling cutting to thread depth
④ End thread milling process with an ascending loop
⑤ Movement to starting position and end of machining procedure



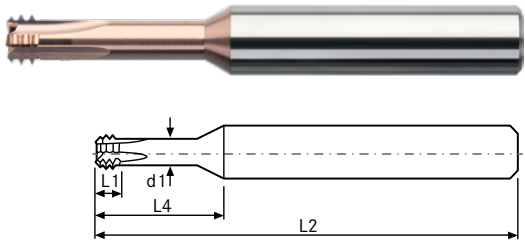
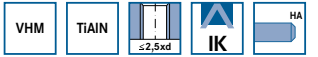
ATORN COMBINATION DRILL-AND-TAP MILLING CUTTER

for use in hardened steel up to 67 HRC, steel, cast iron and stainless steel

Application: For producing metric right-hand and left-hand threads with countersink on CNC machines in through holes and blind holes

Advantage:
Extreme economy and process reliability - drilling, threading and countersinking in a single step.

Specifications:
• Number of cutters: 4



Application	Steel (N/mm ²)			Stainless steel		Aluminium		Brass		Bronze		Plastics	Graphite G(C)FK	GG(G) GJMW	Titanium alloy	Nickel alloy	Super alloy	Hard materials	
	<700	<1,000	<1,300	Martensitic	Austenitic	short	long	short	long	short	long							<55 HRC	<65 HRC
	120	100	80	50	40	80	100	80	100	60	80			80				40	30

d1 (mm)	Pitch (mm)	l2 (mm)	l4 (mm)	l1 (mm)	Shank diameter (mm)	Radius correction value (mm)	fz hardness 65 HRC ● (mm)	CI 13498... Ref. no.
2.4	0.5	57	8.2	1.8	6	1.2	0.01	703 108.00
3.1	0.7	57	11.2	2.2	6	1.53	0.01	704 110.00
4	0.8	57	13.7	2.56	6	1.98	0.02	705 112.00
4.6	1	57	17.6	2.8	6	2.27	0.02	706 112.00
6.2	1.25	72	22	3.5	10	3.04	0.03	708 122.00
7.5	1.5	72	27.5	4.5	10	3.69	0.04	710 124.00
9	1.75	72	32.8	4.8	10	4.44	0.05	712 128.00
9	2	83	38.2	6.3	12	4.43	0.06	714 138.00
11.7	2	83	43.2	6.3	12	5.71	0.07	716 160.00
								Unit price, €

THREAD-CUTTING EXPERTISE

6,500 THREAD SOLUTIONS FOR YOUR APPLICATIONS



HERE YOU WILL FIND PRODUCTS AND INFORMATION FROM THE WORLD OF LATHES:



ATORN THREAD CUTTING INSERTS FOR INTERNAL THREAD CUTTING

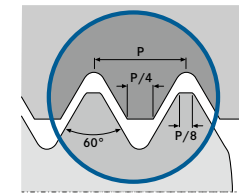
in all material groups

Application:

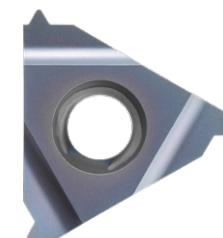
For cutting internal threads on CNC lathes.

Advantage:

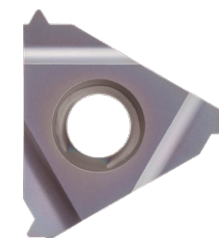
- Ground thread cutting insert with extremely sharp flute, provides good surface quality and cutting precision with exact profile rendering



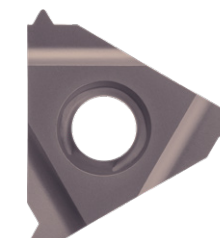
THE ENTIRE THREAD CUTTING RANGE WITH 6,500 SOLUTIONS IN THREAD PRODUCTION CAN BE FOUND ONLINE: WWW.HAHN-KOLB.COM



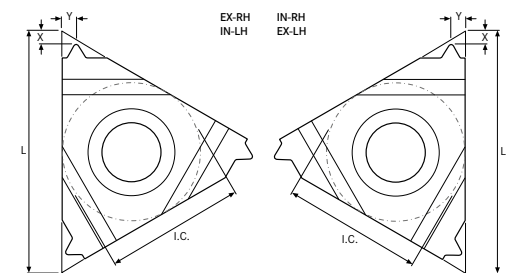
HC5630 UNI 1 choice



HC5515 ISO MS



HC 5110 hard machining



Machining direction		Right	Left	Right	Left	Right	Left
Carbide grade		HC5630	HC5630	HC5515	HC5515	HC5110	HC5110
Min./max. Vc in steel 		60-180 m/min	60-180 m/min	70-210 m/min	70-210 m/min		
Min./max. Vc in stainless steel 		90-130 m/min	90-130 m/min	60-110 m/min	60-110 m/min		
Min./max. Vc in cast iron 		100-130 m/min	100-130 m/min	120-150 m/min	120-150 m/min		
Min./max. Vc in special alloys 		25-60 m/min	25-60 m/min	50-30 m/min	50-30 m/min	20-80 m/min	20-80 m/min
Min./max. Vc in hardened steel 		15-45 m/min	15-45 m/min	20-50 m/min	20-50 m/min	15-60 m/min	15-60 m/min
Size of indexable insert	Pitch (mm)	CI 17743...	CI 17743...	CI 17744...	CI 17744...	CI 17736...	CI 17736...
		Ref. no.	Ref. no.	Ref. no.	Ref. no.	Ref. no.	Ref. no.
06	0.5	096 16.10	002 19.50	- -	- -	- -	- -
06	0.75	097 16.10	- -	- -	- -	- -	- -
06	1.0	098 16.10	003 19.50	- -	- -	- -	- -
06	1.25	099 16.10	004 19.50	- -	- -	- -	- -
06	0.25	095 16.10	001 19.50	- -	- -	- -	- -
08	1.0	113 16.10	007 19.50	- -	- -	- -	- -
08	1.25	116 16.10	552 19.50	- -	- -	- -	- -
08	1.5	123 16.10	008 19.50	- -	- -	- -	- -
08	0.5	108 16.10	005 19.50	- -	- -	- -	- -
08	0.75	109 16.10	006 19.50	- -	- -	- -	- -
08	1.75	126 16.10	009 19.50	- -	- -	- -	- -
08	0.25	107 16.10	- -	- -	- -	- -	- -
11	0.5	017 17.10	380 17.20	442 16.50	- -	135 18.80	- -
11	0.7	376 17.20	322 17.20	445 16.50	- -	- -	- -
11	0.75	027 17.10	323 17.20	444 14.40	333 16.50	137 18.80	- -
11	0.8	305 17.10	382 17.20	446 16.50	- -	- -	- -
11	1.0	037 17.10	325 17.20	447 14.40	334 14.40	138 14.40	117 17.10
11	1.25	306 17.10	326 17.20	449 14.40	335 14.40	- -	- -
11	1.5	047 16.70	327 17.20	450 14.40	336 14.40	139 14.40	119 17.10
11	1.75	307 17.10	328 17.20	451 14.40	- -	- -	- -
11	2.0	308 17.10	329 17.20	466 14.40	339 14.40	148 14.40	- -
11	2.5	156 14.20	043 15.90	467 15.80	- -	149 17.10	- -
11	0.35	298 17.10	317 17.20	440 16.50	- -	- -	- -
11	0.40	299 17.10	318 17.20	441 16.50	- -	- -	- -
11	0.45	302 17.10	023 16.50	- -	- -	- -	- -
11	0.6	303 17.10	026 16.50	443 16.50	- -	- -	- -
16	0.35	233 16.20	063 16.50	480 16.50	- -	- -	- -
16	0.4	236 16.20	066 16.50	482 16.50	- -	- -	- -
16	0.45	235 16.20	065 16.50	481 16.50	- -	- -	- -
16	0.5	117 16.20	383 16.20	483 16.50	341 16.50	153 19.50	- -
16	0.6	237 16.20	067 16.50	484 16.50	342 16.50	- -	- -
16	0.7	238 16.20	068 16.50	486 16.50	344 16.50	- -	120 19.50
16	0.75	127 16.20	384 16.20	485 16.50	343 16.50	154 19.50	- -
16	0.8	309 16.20	332 16.20	487 16.50	345 16.50	- -	- -
16	1.0	137 15.90	333 16.20	489 14.40	346 14.40	155 14.40	121 17.10
16	1.25	147 16.20	385 16.20	491 14.40	347 14.40	156 14.40	- -
16	1.5	157 15.80	335 16.20	494 14.40	348 14.40	157 14.40	122 17.10
16	1.75	167 16.20	336 16.20	496 14.40	349 14.40	159 14.40	- -
16	2.0	177 15.80	337 16.10	557 14.40	384 14.40	176 14.40	123 17.10
16	2.5	187 15.80	338 16.10	559 15.80	385 15.80	178 15.80	125 15.80
16	3.0	197 15.90	339 16.20	582 15.90	393 15.80	183 15.80	- -
16	3.5	377 15.90	386 16.20	583 15.90	394 15.90	184 17.10	- -
Unit price: €							

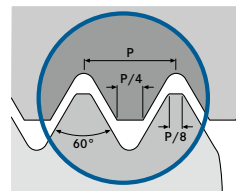
Unit price, €

ATORN THREAD CUTTING INSERTS FOR EXTERNAL THREAD CUTTING

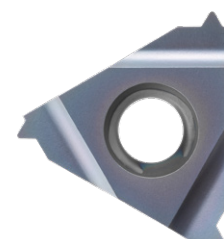
in all material groups

Application: For cutting external threads on CNC lathes.

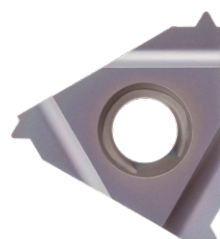
Advantage: polished thread cutting insert with extremely sharp cutting edge, ensures good surface quality and cutting precision with precise profile replication



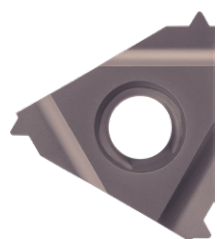
THE ENTIRE THREAD CUTTING RANGE WITH 6,500 SOLUTIONS IN THREAD PRODUCTION CAN BE FOUND ONLINE: WWW.HAHN-KOLB.COM



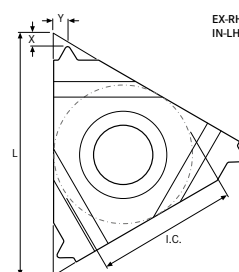
HC5630 UNI 1 choice



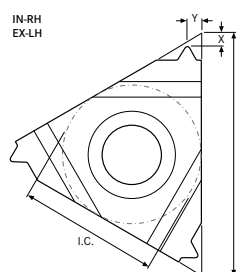
HC5515 ISO MS



HC 5110 hard machining



EX-RH
IN-LH



IN-RH
EX-LH

Machining direction	Right	Left	Right	Left	Right	Left
Carbide grade	HC5630	HC5630	HC5515	HC5515	HC5110	HC5110
Min./max. Vc in steel	60-180 m/min	60-180 m/min	70-210 m/min	70-210 m/min		
Min./max. Vc in stainless steel	90-130 m/min	90-130 m/min	60-110 m/min	60-110 m/min		
Min./max. Vc in cast iron	100-130 m/min	100-130 m/min	120-150 m/min	120-150 m/min		
Min./max. Vc in special alloys	25-60 m/min	25-60 m/min	50-30 m/min	50-30 m/min	20-80 m/min	20-80 m/min
Min./max. Vc in hardened steel	15-45 m/min	15-45 m/min	20-50 m/min	20-50 m/min	15-60 m/min	15-60 m/min
Size of indexable insert	Pitch (mm)	CI 17741... Ref. no.	CI 17741... Ref. no.	CI 17744... Ref. no.	CI 17744... Ref. no.	CI 17736... Ref. no.
11	0.25	039	15.90	000	16.20	-
11	0.35	202	17.20	203	17.20	114
11	0.7	222	17.20	003	16.50	003
11	0.4	206	17.20	001	16.20	116
11	0.45	531	17.20	372	17.20	115
11	0.6	218	17.20	002	16.20	-
11	0.75	226	17.20	227	17.20	118
11	0.8	535	14.80	-	-	120
11	1.0	536	14.70	235	14.80	121
11	1.25	238	14.80	239	14.80	122
11	1.5	242	14.80	243	14.80	123
11	1.75	246	14.80	247	14.80	-
11	2.0	048	14.00	006	14.20	125
11	0.5	042	15.90	215	17.20	117
16	0.25	058	15.90	-	-	-
16	0.3	062	15.90	-	-	-
16	0.35	059	15.90	008	16.20	130
16	0.4	064	15.90	012	16.20	132
16	0.45	063	15.90	009	16.20	131
16	0.5	015	15.80	011	16.20	133
16	0.6	066	15.90	013	16.20	135
16	0.7	067	15.90	014	16.20	137
16	0.75	025	15.90	021	16.20	136
16	0.8	068	15.90	016	16.20	138
16	1.0	035	15.80	031	16.20	141
16	1.25	045	15.80	041	16.20	143
16	1.5	055	15.80	051	15.90	146
16	1.75	065	15.80	061	16.20	149
16	2.0	075	15.80	071	15.90	199
16	2.5	085	16.30	081	16.70	201
16	3.0	095	16.30	091	16.70	223
16	3.5	086	15.30	019	15.60	225

Unit price, €

ATORN STEEL TYPE AND VA TYPE DIE

Application:

No. 13410: For producing metric external threads in the steel and non-ferrous metal material groups up to a strength of 700 N/mm².

No. 13418: For producing metric external threads in the steel, stainless steel, non-ferrous metal and special alloy material groups up to a strength of 1,300 N/mm².

Version:

• **No. 13410:** right-handed thread-cutting die M1 to M1.4 = tol. 6h, M1.6 to M36 = tol. 6g with spiral point tap (from M3), pre-slotted and 1.75-thread chamfer

• **No. 13418:** right-handed thread-cutting die tol. 6g with spiral point tap (from M2) and nitrated, pre-slotted and 2.0-thread chamfer

Advantage:

• micro cut edge treatment and special lapping method for excellent process reliability and long service life

• **Nr. 13410:** universal use for maximum flexibility

• **Nr. 13418:** specialised application with optimised chip geometry for use in difficult-to-machine materials



No. 13410



No. 13418

Application	Steel (N/mm ²)			Stainless steel		Aluminium		Brass		Bronze		Plastics	Graphite G(C)FK	GG(G) GJMW	Titanium alloy	Nickel alloy	Super alloy	Hard materials	
No.	<700	<1,000	<1,300	Martensitic	Austenitic	short	long	short	long	short	long							<55 HRC	<65 HRC
13410	●					●					●	●							
13418		●	●	●	●	●					●				●	●	●		

Thread type x nominal diameter	Pitch (mm)	Outside diameter (mm)	Height (mm)	Right-hand cutting	Right-hand cutting
				CI 13410... Ref. no.	CI 13418... Ref. no.
M1	0.25	16	5	010	33.40
M1.2	0.25	16	5	012	34.80
M1.4	0.3	16	5	014	31.20
M1.6	0.35	16	5	016	-
M1.7	0.35	16	5	017	28.80
M1.8	0.35	16	5	018	29.80
M2	0.4	16	5	020	20.20
M2.2	0.45	16	5	022	26.40
M2.3	0.4	16	5	023	21.50
M2.5	0.45	16	5	025	21.30
M2.6	0.45	16	5	026	22.70
M3	0.5	20	5	030	14.00
M3.5	0.6	20	5	035	21.70
M4	0.7	20	5	040	14.00
M4.5	0.75	20	7	045	32.20
M5	0.8	20	7	050	14.00
M6	1	20	7	060	14.00

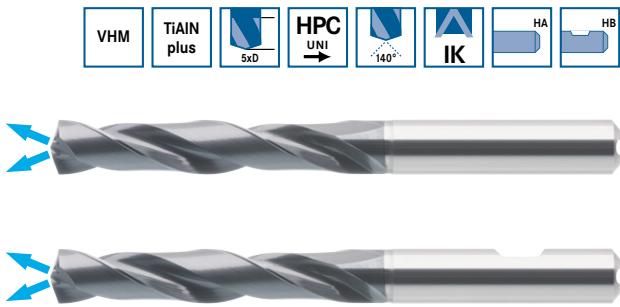
Unit price, €

Thread type x nominal diameter	Pitch (mm)	Outside diameter (mm)	Height (mm)	Right-hand cutting	Right-hand cutting
				CI 13410... Ref. no.	CI 13418... Ref. no.
M7	1	25	9	070	18.90
M8	1.25	25	9	080	15.30
M9	1.25	25	9	090	30.20
M10	1.5	30	11	100	19.80
M11	1.5	30	11	110	39.80
M12	1.75	38	14	120	24.20
M14	2	38	14	140	24.20
M16	2	45	18	160	34.20
M18	2.5	45	18	180	34.20
M20	2.5	45	18	200	34.20
M22	2.5	55	22	220	48.60
M24	3	55	22	240	48.60
M27	3	65	25	270	116.00
M30	3.5	65	25	300	116.00
M33	3.5	65	25	330	134.00
M36	4	65	25	360	132.00

Unit price, €

ATORN HIGH-PERFORMANCE DRILL, SOLID CARBIDE TIALNPLUS HPC 5XD

The ATORN solid carbide high-performance drill bit with TiAlNplus is your product for universal HPC machining. The outstanding geometry combined with a multi-layer coating tailored to the individual drilling process significantly increases the service life. Precise cutting edge finishing reduces micro-cracks and contributes to a longer service life. In addition to the extensive range of the 5xD variant with internal cooling, you will find more of 3xD-12xD in the diameter range of 1.00-20.00 mm, with and without internal cooling, in our online shop.



Tool holder				HA straight shank	HB straight shank	
Surface				TiAlN plus	TiAlN plus	
Coolant supply				Internal	Internal	
Cutting diameter tolerance				h7	h7	
				f steel 1,000 (mm/r)	C111105... Ref. no.	C111105... Ref. no.
mm	mm	mm	mm			
1	4	8	55	0.025	010 57.00	- -
1.1	4	12	55	0.025	011 57.00	- -
1.5	4	12	55	0.033	015 57.00	- -
1.6	4	16	55	0.033	016 57.00	- -
2	4	21	57	0.045	020 57.00	- -
2.3	4	21	57	0.045	023 57.00	- -
2.5	4	21	57	0.045	025 57.00	- -
2.8	4	21	57	0.045	028 57.00	- -
2.9	4	21	57	0.045	029 57.00	- -
3	6	28	66	0.16	030 57.00	230 57.00
3.25	6	28	66	0.16	201 57.00	204 57.00
3.3	6	28	66	0.16	033 57.00	233 57.00
3.5	6	28	66	0.16	035 57.00	235 57.00
3.7	6	28	66	0.16	037 57.00	237 57.00
3.85	6	36	74	0.16	213 57.00	214 57.00
4	6	36	74	0.16	040 57.00	240 57.00
4.2	6	36	74	0.16	042 58.00	242 58.00
4.5	6	36	74	0.16	045 58.00	245 58.00
4.65	6	36	74	0.16	202 58.00	205 58.00
5	6	44	82	0.16	050 58.00	250 58.00
5.2	6	44	82	0.16	052 58.00	252 58.00
5.5	6	44	82	0.16	055 58.00	255 58.00
5.55	6	44	82	0.16	203 58.00	206 58.00
5.6	6	44	82	0.16	056 58.00	256 58.00
5.65	6	44	82	0.16	207 58.00	208 58.00
6	6	44	82	0.21	060 58.00	260 58.00
6.8	8	53	91	0.21	068 64.00	268 64.00
7	8	53	91	0.21	070 64.00	270 64.00
7.2	8	53	91	0.21	072 64.00	272 64.00
7.4	8	53	91	0.21	074 64.00	274 64.00
7.5	8	53	91	0.21	075 64.00	275 64.00
7.55	8	53	91	0.21	209 64.00	210 64.00
7.65	8	53	91	0.21	211 64.00	212 64.00
8	8	53	91	0.21	080 64.00	280 64.00
8.2	10	61	103	0.21	082 77.00	282 77.00
8.5	10	61	103	0.21	085 77.00	285 77.00

Unit price, €

Tool holder				HA straight shank	HB straight shank	
Surface				TiAlN plus	TiAlN plus	
Coolant supply				Internal	Internal	
Cutting diameter tolerance				h7	h7	
				f steel 1,000 (mm/r)	C111105... Ref. no.	C111105... Ref. no.
mm	mm	mm	mm			
8.8	10	61	103	0.21	088 77.00	288 77.00
9	10	61	103	0.21	090 77.00	290 77.00
9.2	10	61	103	0.21	092 77.00	292 77.00
9.3	10	61	103	0.21	093 77.00	293 77.00
9.5	10	61	103	0.21	095 77.00	295 77.00
9.55	10	61	103	0.21	215 77.00	216 77.00
10	10	61	103	0.28	100 77.00	300 77.00
10.2	12	71	118	0.28	102 106.00	302 106.00
10.5	12	71	118	0.28	105 106.00	305 106.00
10.8	12	71	118	0.28	108 106.00	308 106.00
11	12	71	118	0.28	110 106.00	310 106.00
11.2	12	71	118	0.28	112 106.00	312 106.00
11.5	12	71	118	0.28	115 106.00	315 106.00
12	12	71	118	0.33	120 106.00	320 106.00
12.5	14	77	124	0.33	125 142.00	325 142.00
12.8	14	77	124	0.33	128 142.00	328 142.00
13	14	77	124	0.33	130 142.00	330 142.00
13.1	14	77	124	0.33	131 142.00	331 142.00
13.5	14	77	124	0.33	135 142.00	335 142.00
14	14	77	124	0.33	140 142.00	340 142.00
14.5	16	83	133	0.33	145 166.00	345 166.00
14.8	16	83	133	0.33	148 166.00	348 166.00
15	16	83	133	0.33	150 166.00	350 166.00
15.1	16	83	133	0.33	151 166.00	351 166.00
15.25	16	83	133	0.33	217 166.00	218 166.00
15.5	16	83	133	0.33	155 166.00	355 166.00
16	16	83	133	0.33	160 166.00	360 166.00
16.5	18	93	143	0.33	165 262.00	365 262.00
16.9	18	93	143	0.33	169 262.00	369 262.00
17	18	93	143	0.36	170 262.00	370 262.00
18	18	93	143	0.36	180 262.00	380 262.00
18.5	20	101	153	0.36	185 280.00	385 280.00
18.9	20	101	153	0.36	189 280.00	389 280.00
19	20	101	153	0.39	190 280.00	390 280.00
19.5	20	101	153	0.39	195 290.00	395 290.00
20	20	101	153	0.4	200 290.00	400 290.00

Unit price, €

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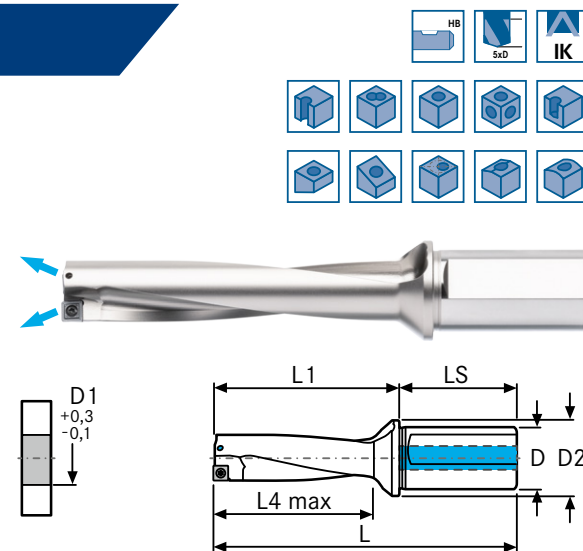
With the resharpener service from HAHN+KOLB.

ATORN ATORN INDEXABLE INSERT DRILL BIT 5xD

for universal use up to 1,300 N/mm²

Our indexable insert drill bit offers a wide range of applications in steel, stainless steel, cast iron, superalloys and titanium. The four usable blades per indexable insert allow you to achieve the longest possible service life. A particular advantage: The indexable inserts can be used as both centre and peripheral inserts.

Whether making cross holes, inclined inlet and outlet bores, chain bores, convex entry surfaces or bores in half cylinders – the ATORN indexable insert drill bit will master every challenge. Other tool lengths can be found in our online shop.



ATORN indexable insert drill bit 5xD									
Tool holder								HB straight shank	
Coolant supply								Internal	
Max. drilling depth (D)								5xD	
Adjustment range (+/-)								+0.40	
D1 (mm)	D (mm)	D2 (mm)	L1 (mm)	LS (mm)	L (mm)	L4 max. (mm)	Suitable for indexable insert type	CI11236... Ref. no.	
14	20	30	83	50	133	70	A	140	404.00
15	20	30	89	50	139	75	A	150	404.00
16	20	30	96	50	146	80	A	160	404.00
17	20	30	102	50	152	85	B	170	418.00
18	25	30	107	56	163	90	B	180	418.00
19	25	30	113	56	169	95	B	190	432.00
20	25	30	118	56	174	100	C	200	432.00
21	25	30	124	56	180	105	C	210	432.00
22	25	30	129	56	185	110	C	220	432.00
23	25	30	135	56	191	115	C	230	432.00
24	32	39	140	60	200	125	D	240	432.00
25	32	39	146	60	206	130	D	250	432.00
26	32	39	151	60	211	135	D	260	432.00
27	32	39	157	60	217	135	D	270	432.00
28	32	39	162	60	222	140	D	280	432.00
29	32	39	168	60	228	145	E	290	432.00
30	32	39	173	60	233	150	E	300	468.00
Unit price, €									

ATORN indexable insert drill bit 5xD									
Tool holder								HB straight shank	
Coolant supply								Internal	
Max. drilling depth (D)								5xD	
Adjustment range (+/-)								+0.40	
D1 (mm)	D (mm)	D2 (mm)	L1 (mm)	LS (mm)	L (mm)	L4 max. (mm)	Suitable for indexable insert type	CI11236... Ref. no.	
31	40	50	179	68	247	155	E	310	468.00
32	40	50	184	68	252	160	E	320	468.00
33	40	50	190	68	258	165	E	330	468.00
34	40	50	195	68	263	170	F	340	468.00
35	40	50	206	68	274	175	F	350	468.00
36	40	50	212	68	280	180	F	360	468.00
37	40	50	212	68	280	185	F	370	540.00
38	40	50	217	68	285	190	F	380	540.00
39	40	50	223	68	291	195	G	390	540.00
40	40	50	228	68	296	200	G	400	540.00
41	40	50	234	68	302	205	G	410	540.00
42	40	50	239	68	307	210	G	420	540.00
43	40	50	245	68	313	215	G	430	540.00
44	40	50	250	68	318	220	G	440	540.00
Unit price, €									

ATORN INDEXABLE INSERTS FOR ATORN INDEXABLE INSERT DRILL BIT

For indexable insert drill bits no. 11234, 11235, 11236

Application:

Ref. no. 010-070: For use on steel

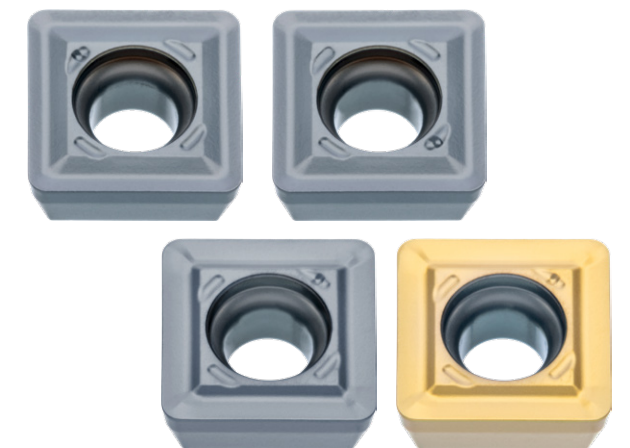
Ref. no. 100-160: For use on cast iron

Ref. no. 200-260: For use on stainless steel

Ref. no. 300-360: For use on special alloys

Scope of delivery:

PU 10 pieces



ISO name	Carbide grade	Suitable for indexable insert type	f min. (mm/r)	f max. (mm/r)	CI11237... Ref. no.
SOLX 050204	ACP25D	A	0.06	0.16	010 9.55
SOLX 050204	ACK15D	A	0.08	0.18	100 9.55
SOLX 050204	ACM40D	A	0.06	0.12	200 9.55
SOLX 050204	ACS40D	A	0.04	0.08	300 9.55
SOLX 06T206	ACP25D	B	0.11	0.16	020 9.55
SOLX 06T206	ACK15D	B	0.12	0.18	110 9.55
SOLX 06T206	ACM40D	B	0.08	0.12	210 9.55
SOLX 06T206	ACS40D	B	0.04	0.08	310 9.55
SOLX 070308	ACP25D	C	0.13	0.22	030 9.55
SOLX 070308	ACK15D	C	0.14	0.25	120 9.55
SOLX 070308	ACM40D	C	0.1	0.18	220 9.55
SOLX 070308	ACS40D	C	0.05	0.09	320 9.55
SOLX 080308	ACP25D	D	0.14	0.22	040 10.50
SOLX 080308	ACK15D	D	0.18	0.3	130 10.50
Unit price, €					

ISO name	Carbide grade	Suitable for indexable insert type	f min. (mm/r)	f max. (mm/r)	CI11237... Ref. no.
SOLX 080308	ACM40D	D	0.12	0.18	230 10.50
SOLX 080308	ACS40D	D	0.06	0.1	330 10.50
SOLX 10T308	ACP25D	E	0.14	0.22	050 10.50
SOLX 10T308	ACK15D	E	0.2	0.3	140 10.50
SOLX 10T308	ACM40D	E	0.12	0.18	240 10.50
SOLX 10T308	ACS40D	E	0.07	0.11	340 10.50
SOLX 110408	ACP25D	F	0.14	0.22	060 11.50
SOLX 110408	ACK15D	F	0.2	0.3	150 11.50
SOLX 110408	ACM40D	F	0.12	0.18	250 11.50
SOLX 110408	ACS40D	F	0.07	0.11	350 11.50
SOLX 130508	ACP25D	G	0.14	0.22	070 11.50
SOLX 130508	ACK15D	G	0.2	0.3	160 11.50
SOLX 130508	ACM40D	G	0.12	0.18	260 11.50
SOLX 130508	ACS40D	G	0.08	0.12	360 11.50
Unit price, €					



ATORN COUNTERSINK 90°, HSSE, 4 FLUTE, VERY UNEVEN PITCH

for universal use up to 1,300 N/mm²

Our countersink with 4 flutes and extreme unequal pitch is ideal for materials up to 1,300 N/mm². It enables reliable countersinking without chatter marks and ensures an optimal countersinking pattern. The innovative design reduces the infeed force and increases the countersinking speed by up to 50 %. 3-flat shank prevents spinning in the drill chuck. We offer the ATORN countersink 90° in HSS and HSSE variants, individually or as a set, available on request.



Application	Steel (N/mm ²)			Stainless steel		Aluminium		Brass		Bronze		Plastics	Graphite G(C)FK	GG(G) GJMW	Titanium alloy	Nickel alloy	Super alloy	Hard materials	
	<700	<1,000	<1,300	Martensitic	Austenitic	short	long	short	long	short	long							<55 HRC	<65 HRC
	50	40	20	22	22	50	65	50	55	50	55	55		35	18	18	18		

Tool holder					Straight shank with three clamping surfaces	
Surface					TiAlN plus	
mm	mm	mm	mm	f steel 1000 (mm/r)	CI 11501... Ref. no.	
10.4	2.5	6.0	50	0.12	260	27.20
12.4	2.8	8.0	56	0.12	261	30.40
15.0	2.9	10.0	60	0.14	262	34.00
16.5	3.2	10.0	60	0.2	263	35.40
19.0	3.5	10.0	63	0.2	264	38.20
Unit price, €						

Tool holder					Straight shank with three clamping surfaces	
Surface					TiAlN plus	
mm	mm	mm	mm	f steel 1000 (mm/r)	CI 11501... Ref. no.	
20.5	3.5	10.0	63	0.2	265	42.20
23.0	3.8	10.0	67	0.22	266	49.80
25.0	3.8	10.0	67	0.24	267	53.00
31.0	4.2	12.0	71	0.24	268	64.00
40.0	5.3	12.0	80	0.27	269	110.00
Unit price, €						



ORDER AS A COMPLETE SET!

Tool holder		Straight shank with three clamping surfaces	
Cutting material		HSSE	
Surface		TiAlN plus	
Scope of delivery	Number of parts in assortment/set (PCS)	CI 11501... Ref. no.	
10.4/12.4/16.5/20.5	4	272	126.00
10.4/12.4/16.5/20.5/25	5	273	178.00
Set price, €			

ATORN FORWARDS AND REVERSE DEBURRING TOOL 90° SC-TIALN

for universal use up to 1,300 N/mm²

Efficient deburring with the forwards and reverse deburring tool - time savings guaranteed! Our deburring tool enables quick and precise deburring of bore holes, without the need for a tool change. They can be deburred linearly and circularly or chamfered at an angle of 90°. Due to the wide range of diameters, reliable deburring is possible from both sides in different materials, from steel to superalloys. Other variants can be found in our online shop.



Application	Steel (N/mm ²)			Stainless steel		Aluminium		Brass		Bronze		Plastics	Graphite G(C)FK	GG(G) GJMW	Titanium alloy	Nickel alloy	Super alloy	Hard materials	
	<700	<1,000	<1,300	Martensitic	Austenitic	short	long	short	long	short	long							<55 HRC	<65 HRC
	65	45	35	40	30	115	160	100	80	70	60			45	20	15	15		

D1	D2	D3	Dh6	GL	L1	L2	FL	Shape	Teeth (no.)	fz steel 1000	CI 11539... Ref. no.
(mm)											
0.9	-	0.65	3	75	0.58	0.45	3	Pointed	2	0.01	010 41.60
1.4	-	1.0	3	75	0.9	0.7	4	Pointed	2	0.01	015 41.60
1.9	-	1.2	3	75	1.3	0.95	5	Pointed	2	0.01	020 41.60
2.9	-	1.8	3	75	2.0	1.45	6	Pointed	2	0.01	030 45.00
3.9	-	1.9	4	75	2.95	1.95	10	Pointed	4	0.01	040 52.00
5.8	-	4.0	6	100	3.8	1.9	18.8	Pointed	4	0.01	060 59.00
Unit price, €											

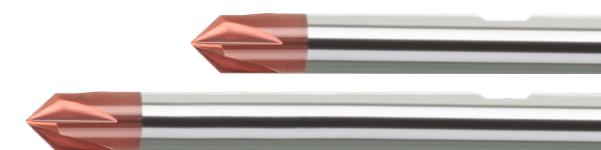
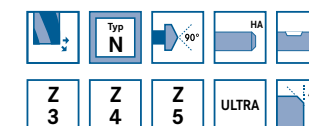
D1	D2	D3	Dh6	GL	L1	L2	FL	Shape	Teeth (no.)	fz steel 1000	CI 11539... Ref. no.
(mm)											
7.8	6	-	6	100	1.8	0.9	-	Flat	4	0.01	080 76.00
9.8	6	-	6	100	3.8	1.9	-	Flat	4	0.012	100 95.00
11.8	6	-	6	100	5.8	2.9	-	Flat	4	0.015	120 112.00
13.8	6	-	6	100	7.8	3.9	-	Flat	4	0.016	140 122.00
15.8	6	-	6	100	9.8	4.9	-	Flat	4	0.017	160 154.00
Unit price, €											

ATORN SC 90° CHAMFER MILL

for universal use up to 1,300 N/mm²

The Atorn solid carbide 90° chamfer mill with high-performance ULTRA coating is the ideal tool for a wide range of applications. The defined cutting edge rounding significantly minimises the risk of breakouts. The extra-long version is the perfect solution for hard-to-reach areas.

Note: Shank variant HA up to dia. 4 mm.



Application	Steel (N/mm ²)			Stainless steel		Aluminium		Brass		Bronze		Plastics	Graphite G(C)FK	GG(G) GJMW	Titanium alloy	Nickel alloy	Super alloy	Hard materials	
	<700	<1,000	<1,300	Martensitic	Austenitic	short	long	short	long	short	long							<55 HRC	<65 HRC
	110	70	60	80	60	280	300	170	150	150	130			90	30	30	30		

Chamfer angle (degrees)							90	
Shank diameter tolerance							h6	
Surface							ULTRA	
Type							N	
Cutting diameter (mm)	S (mm)	Length (mm)	Shank diameter (mm)	Teeth (no.)	Insert dia. min. (mm)	fz steel 1000 	CI 11542...	Ref. no.
1	0.5	39	3	3	0.3	0.006	010	20.2
2	1.2	39	3	3	0.3	0.011	020	20.2
3	1.9	39	3	3	0.3	0.012	030	20.2
4	2.5	54	4	4	0.4	0.022	040	20.2
4	2.5	85	4	4	0.4	0.022	045	23.8
6	3.8	57	6	5	0.5	0.03	060	26.4
6	3.8	100	6	5	0.5	0.03	065	31.2
								Unit price, €

Chamfer angle (degrees)							90	
Shank diameter tolerance							h6	
Surface							ULTRA	
Type							N	
Cutting diameter (mm)	S (mm)	Length (mm)	Shank diameter (mm)	Teeth (no.)	Insert dia. min. (mm)	fz steel 1000 	CI 11542...	Ref. no.
8	5.0	63	8	5	0.9	0.04	080	31.40
8	5.0	100	8	5	0.9	0.04	085	40.00
10	6.3	72	10	5	1	0.05	100	37.00
10	6.3	100	10	5	1	0.05	105	47.80
12	7.6	83	12	5	1.2	0.06	120	57.00
12	7.6	120	12	5	1.2	0.06	125	70.00
16	10.4	92	16	5	1.2	0.08	160	100.00
							Unit price, €	

ATORN METRIC THREAD PITCH GAUGES

Made from gauge steel

Suitable thread pitch gauges are the easiest way to test threads whether directly next to the machine, at the measuring station or in the measuring room. Simple, fast, cost-effective! Plug gauges M1-M1.4 with fit 5H, from M1.6 with fit 6H. GO and NO-GO ring gauges M1-M1.4 with fit 6H, from M1.6 with fit 6G

Specifications:

- Material: Gauge steel

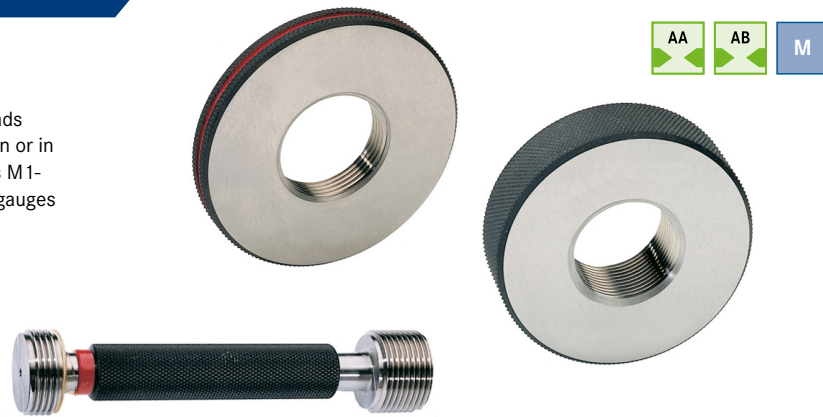


Illustration may be different!

	Thread plug gauge		Go ring gauge		No-go ring gauge	
Thread type x nominal diameter x pitch	CI 32670... Ref. no.		CI 32675... Ref. no.		CI 32676... Ref. no.	
M1 x 0.25	010	97.00	010	98.00	010	98.00
M1.2 x 0.25	012	96.00	012	91.00	012	91.00
M1.4 x 0.3	014	82.00	014	84.00	014	84.00
M1.6 x 0.35	016	76.00	016	75.00	016	76.00
M1.7 x 0.35	017	76.00	017	75.00	017	76.00
M1.8 x 0.35	018	68.00	018	67.00	018	67.00
M2 x 0.4	020	68.00	020	67.00	020	67.00
M2.2 x 0.45	022	63.00	022	57.00	022	57.00
M2.3 x 0.45	023	63.00	023	57.00	023	57.00
M2.5 x 0.45	025	57.00	025	49.80	025	49.80
M2.6 x 0.45	026	57.00	026	49.80	026	49.80
M3 x 0.5	030	52.00	030	49.00	030	49.00
M3.5 x 0.6	035	51.00	035	43.40	035	44.80
M4 x 0.7	040	48.40	040	42.80	040	43.40
M4.5 x 0.75	045	48.40	045	42.80	045	43.40
M5 x 0.8	050	47.60	050	42.80	050	43.40
M6 x 1	060	45.60	060	42.80	060	43.40
Unit price, €						

	Thread plug gauge		Go ring gauge		No-go ring gauge	
Thread type x nominal diameter x pitch	CI 32670... Ref. no.		CI 32675... Ref. no.		CI 32676... Ref. no.	
M7 x 1	070	45.60	070	42.80	070	43.40
M8 x 1.25	080	45.60	080	43.40	080	44.80
M9 x 1.25	090	47.60	090	49.00	090	49.00
M10 x 1.5	100	49.80	100	53.00	100	54.00
M11 x 1.5	110	52.00	110	57.00	110	57.00
M12 x 1.75	120	53.00	120	63.00	120	64.00
M14 x 2	140	60.00	140	69.00	140	69.00
M16 x 2	160	64.00	160	76.00	160	76.00
M18 x 2.5	180	68.00	180	84.00	180	86.00
M20 x 2.5	200	72.00	200	97.00	200	97.00
M22 x 2.5	220	80.00	220	102.00	220	102.00
M24 x 3	240	91.00	240	106.00	240	108.00
M27 x 3	270	100.00	270	120.00	270	120.00
M30 x 3.5	300	108.00	300	132.00	300	132.00
M33 x 3.5	330	126.00	330	140.00	330	140.00
M36 x 4	360	132.00	360	150.00	360	150.00
M39 x 4	390	142.00	390	160.00	390	160.00
Unit price, €						

ATORN METRIC THREAD PITCH GAUGES

TiN on GO side, gauge steel on NO-GO side

Titanium nitride coatings, or TiN for short, have an approximately 10 times higher wear resistance than pure gauge steel. A coating of TiN on the GO side, which is subject to significantly higher wear than the NO-GO side, significantly extends the service life. Gauges need to be replaced less often and calibration intervals can be extended. Sustainability and cost reduction in one.

Specifications:

- Material: TiN



Illustration may be different

	Thread plug gauge, 6H	
Thread type x nominal diameter x pitch	CI 32696... Ref. no.	
M3 x 0.5	030	102.00
M4 x 0.7	040	96.00
M5 x 0.8	050	92.00
M6 x 1.0	060	89.00
M8 x 1.25	080	96.00
M10 x 1.5	100	102.00
M12 x 1.75	120	114.00
M14 x 2.0	140	138.00
M16 x 2.0	160	142.00
M18 x 2.5	180	156.00
M20 x 2.5	200	164.00
Unit price, €		

APPROX. 10 TIMES HIGHER WEAR RESISTANCE

leitech THREAD PLUG GAUGES WITH DEPTH MEASUREMENT

Do you also need to measure the thread depth? And do you need to carry out an additional step with a depth measuring instrument? Why not combine the thread depth measurement with a simultaneous thread test? With the digital thread plug gauges, the thread depth is determined when screwing in the GO side and output via an electronic display. The threaded inserts can be easily changed. As a result, only a small part of the gauge needs to be replaced in the event of wear. A suitable adjustment tool is included in the scope of delivery of the plug gauge.

Specifications:

- Tolerance class: 6H



EASY REPLACEMENT OF THE INDICATOR CONTACT POINTS



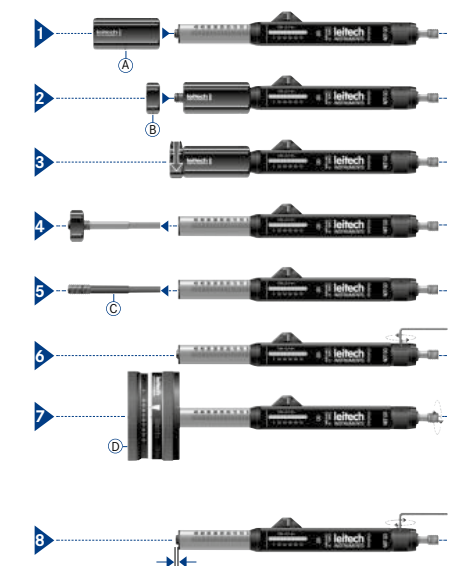
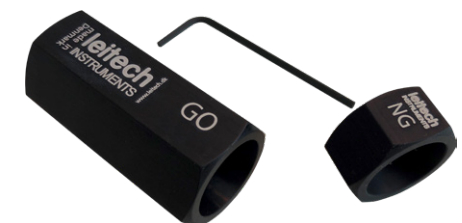
		Digital		Go side		No go	
Length gradation of measuring systems		0.01 mm					
Data transmission type		RS232 opto-coupled					
Thread type x nominal diameter x pitch	Handle size	CI 32853... Ref. no.		CI 32852... Ref. no.		CI 32852... Ref. no.	
M2 x 0.4	T 200	020	740.00	020	64.00	300	56.00
M2.5 x 0.45	T 200	040	730.00	025	55.00	310	48.80
M3 x 0.5	T 200	060	730.00	030	55.00	320	48.80
M3.5 x 0.6	T 200	080	730.00	035	48.80	330	43.20
M4 x 0.7	T 300	100	730.00	040	48.00	340	42.40
M5 x 0.8	T 300	140	730.00	050	45.60	350	40.80
M6 x 1	T 300	160	730.00	060	44.80	360	39.20
M7 x 1	T 400	180	820.00	070	43.20	370	38.00
M8 x 1.25	T 400	210	820.00	080	44.00	380	38.60
Unit price, €							

		Digital		Go side		No go	
Length gradation of measuring systems		0.01 mm					
Data transmission type		RS232 opto-coupled					
Thread type x nominal diameter x pitch	Handle size	CI 32853... Ref. no.		CI 32852... Ref. no.		CI 32852... Ref. no.	
M9 x 1.25	T 400	240	820.00	090	44.80	390	39.20
M10 x 1.5	T 400	280	820.00	100	45.60	400	40.80
M12 x 1.75	T 400	340	820.00	120	48.80	410	43.20
M14 x 2	T 500	380	900.00	140	52.00	420	45.60
M16 x 2	T 500	430	900.00	160	55.00	430	48.80
M18 x 2.5	T 600	470	960.00	180	59.00	440	52.00
M20 x 2.5	T 600	500	960.00	200	64.00	450	56.00
M22 x 2.5	T 600	540	960.00	220	68.00	460	60.00
Unit price, €							

leitech EXTRACTOR

For changing the thread inserts of Leitech thread limit plug gauges. An appropriate hexagon nut for the thread to be changed is also required. The nut uses the extractor to pull the threaded insert out of the handle of the arbour.

Handle size	CI 32859... Ref. no.	
T 200	200	26.00
T 300	300	26.40
T 400	400	29.00
T 500	500	33.00
T 600	600	39.60
Unit price, €		



ATORN THREAD OUTSIDE MICROMETER

for measuring male threads

Thread measurement has advantages over simple thread testing. You get an exact measurement and can adjust your machine before you produce rejects or excess. A threaded outside micrometer is suitable for measuring external threads. You can determine all threads within the measuring range of the micrometer using the interchangeable inserts and the appropriate setting gauges. The scope of delivery of the micrometer does not include inserts or setting gauges.

- Specifications:

 - Vernier scale: 0.01 mm
 - Measuring spindle increments: 0.5 mm



Min./max. length measuring range	CI 31579... Ref. no.	
0-25 mm	005	358.00
25-50 mm	025	370.00
50-75 mm	050	390.00
75-100 mm	075	430.00
100-125 mm	100	480.00
125-150 mm	125	530.00
150-200 mm	150	790.00
		Unit price, €

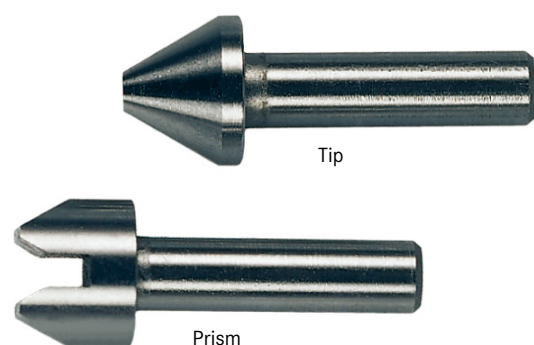
ATORN THREAD FLANK INDICATOR CONTACT POINTS 60°

Suitable thread flank indicator contact points 60° for metric and UNC/UNF threads, supplied in pairs. Selection is based on the thread pitch.

- Specifications:

 - Adapter diameter: 3.5 mm
 - Angle: 60 degrees

Min./max. pitch	Number of thread per inch	CI 31581... Ref. no.	
0.35-0.5 mm	72-48	001	142.00
0.6-0.8 mm	44-32	002	124.00
0.9-1.25 mm	28-18	003	124.00
1.5-2 mm	16-11	004	124.00
2.5-3.5 mm	10-7	005	124.00
4-6 mm	6-4	006	142.00
		Pair price, €	



INDICATOR CONTACT POINTS
FOR OTHER THREAD TYPES
AVAILABLE ON REQUEST

ATORN THREAD SETTING GAUGE 60°

Suitable thread setting gauge with insulated grip.

- Specifications:

 - Angle: 60 degrees

Length (mm)	CI 31580... Ref. no.	
25	025	90.00
50	050	91.00
75	075	93.00
100	100	93.00
125	125	93.00
175	175	106.00
		Unit price, €



MICROTEST 3-POINT INSIDE MICROMETERS, MODULAR MEASURING CONTACT SYSTEM

with large measuring ranges

Measuring internal threads is much more difficult and complex than measuring external threads. The high-precision three-point inside micrometer from MICROTEST offers a solution for this. The numbered spherical indicator contact points of the modular system are placed in a polygonal holder on the measuring pins. Spherical indicator contact points suitable for the pitch to be measured can be used to measure all internal threads with this pitch within the measuring range of the micrometer. Of course, the measuring system can also be used with other indicator contact points for many other internal measurements. The central bevel gear drive offers advantages in terms of measuring difference per device, accuracy, wear and uniform measuring pressure. With optional extensions (not included in scope of delivery) the devices can be extended to a measuring depth of up to 15 metres. The indicator contact points shown are not included in the scope of delivery.

- Specifications:

 - Scale increment: 0.001 mm
 - Measuring contact design: Carbide
 - Measuring spindle increments: 1 mm
 - IP degree of protection: IP 54
 - Functions: ABS function | On/off | Preset function | With mm/inch changeover | With zero setting at any position

			Type	MICROTEST Modular
			Data transmission type	RS232 opto-coupled
Min./max. length measuring range	Measuring depth (mm)	Error limit (mm)	CI 31801... Ref. no.	
45-55 mm	110	0.002	400	2,240.00
55-75 mm	110	0.002	410	2,500.00
75-105 mm	140	0.002	420	3,100.00
105-155 mm	210	0.002	430	3,620.00
155-255 mm	210	0.003	440	5,700.00
255-415 mm	300	0.004	450	7,900.00
			Unit price	

Supplied without indicator contact points



MICROTEST INTERCHANGEABLE INDICATOR CONTACT POINTS FOR MODULAR MICROTEST THREE-POINT INSIDE MICROMETERS

Interchangeable indicator contact points suitable for Microtest modular inside micrometer. A set consists of three numbered indicator contact points of your choice (e.g. spherical for 4 mm pitch). **Please state the requested version in the order.**

	Type	Min./max. length of application area		
CI31801...	Modular measurement attachments	45-105 mm	Ref. no. Set price	460 570.00
CI31801...	Modular measurement attachments	105-405 mm	Ref. no. Set price	470 570.00

SPECIAL INDICATOR CONTACT POINTS AVAILABLE ON REQUEST



Image shows a sample

QUICK AND EASY SELECTION OF THE RIGHT GAUGE

WITH THE GAUGE NAVIGATOR FROM HAHN+KOLB.

You can find the gauge you need quickly and easily in our 10-language Gauge Navigator. Select the desired gauge type. Enter specifications and request a quotation via the shopping basket.

The advantages:

- > clear specification of gauges
- > quick to access and easy to use
- > automatic shopping basket generation and submission of quotations

Gauge type
Thread plug gauge

Thread
Thread type
Nominal size
Pitch
Tolerance class

M
MF
Tr
G
BSW
BSF
Rp
Pg
ME - EL
UNC
UNF
UNJC
UNJF
UNEF
NPT
NPTF
EG M
EG MF
EG UNC
EG UNF
Rd



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Tel. 07141 498 40
www.hahn-kolb.com
info@hahn-kolb.com

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No. 7362

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All prices listed are net prices in EUR, subject to statutory VAT. Special transport: Additional transport costs may apply for products marked with "+".