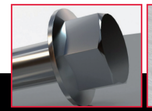
Hommel+Keller

Rotary broaching tools with internal cooling

External profiles within seconds with optimal process cooling and chip removal

The big advantage: Thanks to the concentric design, the tools can be used on CNC lathes and milling centres as well as on conventional machines. There is no longer the need to move the workpieces to special machines such as broaching or shaper machines or to outsource to cost-intensive production processes such as electroerosion machining.





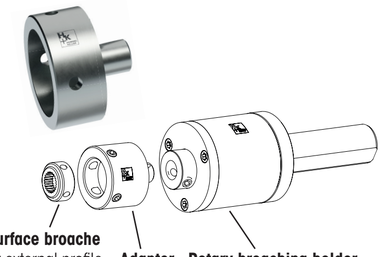


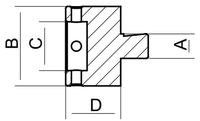
Hommel+Keller

Rotary broaching tools for external profiles

Here's how: The tool consists of a rotary broaching holder, an adapter and a surface broach for the particular profile. Via a concentric movement, the surface broach generates the desired profile in a quick and process-reliable manner in just one pass. Surface broaches with different profiles are available on request.

Adapter (for surface broach for external profiles)





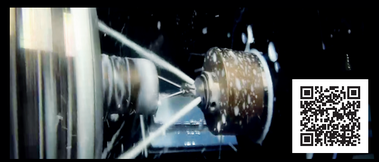
dimensions in mm

Item no.	A	B	C	D
60000004	8	8	16	18
60000005	12	12	32	18

Hommel+Keller
ROTARY BROACHING TOOLS



ROTARY BROACHING TOOLS
➤ **available from stock**



Rotary broaching tools with internal cooling in use

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ROTARY BROACHING TOOLS
WITH INTERNAL COOLING

- INTERNAL AND EXTERNAL PROFILES WITHIN SECONDS
- OPTIMAL PROCESS COOLING
- PERFECT CHIP REMOVAL
- EXACT PROFIL

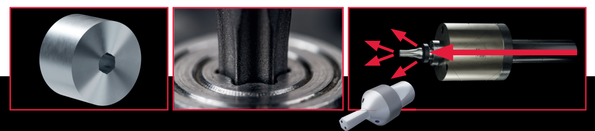


Hommel+Keller

Rotary broaching tools with internal cooling

Internal profiles within seconds with optimal process cooling and chip removal

Rotary broaching perfectly complements our range of precision tools. With the machining production method, internal profiles such as square, hexagon, Torx and Torx Plus can be produced within seconds in component parts made from materials up to 35 HRC.



Hommel+Keller

Rotary broaching tools for internal profiles

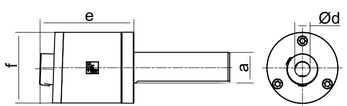
What is special about the Hommel+Keller rotary broaching tools: The tools have internal cooling for emulsion or oil – which is currently unique on the market. This optimized process cooling reduces wear and thus significantly increases the service life of the broaching inserts. Chip removal is also excellent, which increases process reliability, and a neat and precise profile is produced.

With numerous variants for shank connections and adapters – cylinder, morse taper, ISO-DIN 69871 / DIN 2080 connecting and VDI shanks as well as CAPTO® (Sandvik) attachments – the appropriate connection for every machine is available.

Here's how: The tool consists of a rotary broaching holder and a broaching insert for the particular profile. Via a concentric movement, the broach generates the desired profile in a quick and process-reliable manner in just one pass.

Rotary broaching holder



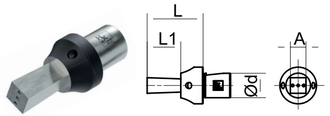


dimensions in mm

Item no.	Shank Ø (a)	e	f	Ød
60000000	12	46	35	8
60000001	16	46	35	8
60000002	16	65	47	12
60000014	20	65	47	12
60000009	22	65	47	12
60000015	25	65	47	12

Hommel+Keller broaching inserts with the profiles square, hexagon, Torx and Torx Plus ➤ are available from stock.

Broaching insert **Square**



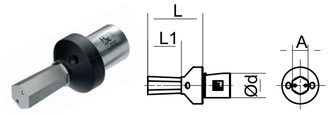
dimensions in mm

Item no.	L	L1	Ød	A
61000013	18	5	8	2
61000014	18	6	8	2,5
61000015	18	7	8	3
61000016	18	8	8	3,5
61000017	18	9	8	4
61000018	18	9	8	4,5
61000019	18	11	8	5
61000020	18	11	8	5,5
61000021	18	13	8	6
61000022	18	15	8	7
61000023	18	15	8	8
61000042	25	5	12	2
61000043	25	6	12	2,5
61000044	25	7	12	3
61000045	25	8	12	3,5
61000046	25	9	12	4
61000047	25	9	12	4,5
61000048	25	11	12	5
61000049	25	11	12	5,5
61000050	25	13	12	6
61000051	25	15	12	7
61000052	25	17	12	8
61000053	25	19	12	9
61000054	25	21	12	10
61000055	25	21	12	11
61000056	25	21	12	12

High process reliability and stability

- **Holder and broach lie flat against each other.**
- **All Hommel+Keller broaches are provided with Hommel+Keller's own INOX Plus coating.**

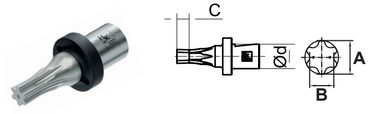
Broaching insert **Hexagon**



dimensions in mm

Item no.	L	L1	Ød	A
61000000	18	5	8	2
61000001	18	6	8	2,5
61000002	18	7	8	3
61000003	18	8	8	3,5
61000004	18	9	8	4
61000005	18	9	8	4,5
61000006	18	11	8	5
61000007	18	11	8	5,5
61000008	18	13	8	6
61000009	18	15	8	7
61000010	18	15	8	8
61000011	18	15	8	9
61000012	18	15	8	10
61000024	25	5	12	2
61000025	25	6	12	2,5
61000026	25	7	12	3
61000027	25	8	12	3,5
61000028	25	9	12	4
61000029	25	9	12	4,5
61000030	25	11	12	5
61000031	25	11	12	5,5
61000032	25	13	12	6
61000033	25	15	12	7
61000034	25	17	12	8
61000035	25	19	12	9
61000036	25	21	12	10
61000037	25	21	12	11
61000038	25	21	12	12
61000039	25	21	12	13
61000040	25	21	12	14
61000041	25	21	12	15

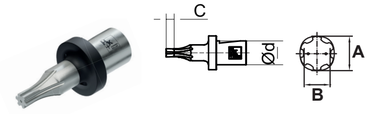
Broaching insert **Torx**



dimensions in mm

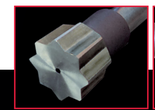
Item no.	Size	C	Ød	A	B
61000057	8	2	8	2,418	1,756
61000058	9	2	8	2,603	1,889
61000059	10	2	8	2,844	2,057
61000060	15	3	8	3,378	2,438
61000061	20	3,5	8	3,962	2,857
61000062	25	4	8	4,559	3,276
61000063	27	4	8	5,118	3,672
61000064	30	4,5	8	5,651	4,064
61000065	40	5	8	6,807	4,889
61000066	8	2	12	2,418	1,756
61000067	9	2	12	2,603	1,889
61000068	10	2	12	2,844	2,057
61000069	15	3	12	3,378	2,438
61000070	20	3,5	12	3,962	2,857
61000071	25	4	12	4,559	3,276
61000072	27	4	12	5,118	3,672
61000073	30	4,5	12	5,651	4,064
61000074	40	5	12	6,807	4,889
61000075	45	5,5	12	7,975	5,689
61000076	50	6	12	8,991	6,502
61000077	55	7	12	11,404	8,089
61000078	60	7,5	12	13,487	9,677

Broaching insert **Torx Plus**



dimensions in mm

Item no.	Size	C	Ød	A	B
61000079	8	2	8	2,418	1,86
61000080	9	2	8	2,603	2,014
61000081	10	2	8	2,844	2,174
61000082	15	3	8	3,378	2,606
61000083	20	3,5	8	3,962	3,088
61000084	25	4	8	4,559	3,492
61000085	27	4	8	5,118	3,99
61000086	30	4,5	8	5,651	4,391
61000087	40	5	8	6,807	5,283
61000088	8	2	12	2,418	1,86
61000089	9	2	12	2,603	2,014
61000090	10	2	12	2,844	2,174
61000091	15	3	12	3,378	2,606
61000092	20	3,5	12	3,962	3,088
61000093	25	4	12	4,559	3,492
61000094	27	4	12	5,118	3,99
61000095	30	4,5	12	5,651	4,391
61000096	40	5	12	6,807	5,283
61000097	45	6	12	7,975	6,923
61000098	50	7	12	8,991	8,766
61000099	55	7,5	12	11,385	10,35
61000100	60	8	12	13,442	12,156





➤ Individual profiles available on request

Other broaches with individual profiles (e.g. internal octagon, triangle, pentagon, knurled profiles or customer-specific profiles) and dimensions are also available on request.