



STEP DRILLS
THE NEXT GENERATION

SMOOTH RUN. PRECISE CUT. LONG LIFE.

- + Up to 4 times longer service life
- + Improved centring with quicker hole drilling
- + Extremely smooth run eliminates 'grabbing' material
- + Significantly reduced cutting forces
- + Highly efficient chip removal, reduces heat build up
- + Reduced 'feathering' in the hole
- + Drilling productivity significantly increased
- + Optimal performance in all drilling machines including hand-held drills

HELIX ANGLE

The helix angle optimisation leads to reduced axial feed forces, enabling the drilling cycle to be performed significantly faster in less time.

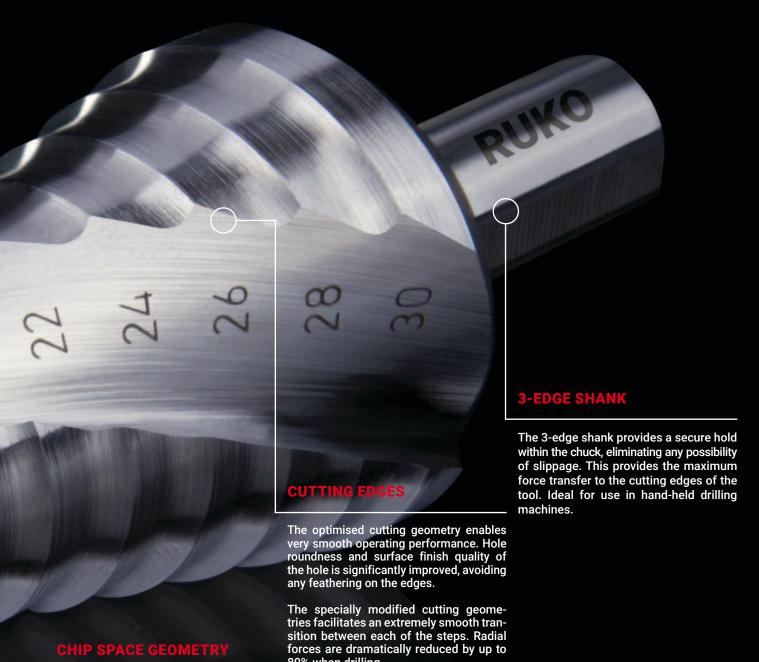
POINT CUT

The improved point cut geometry facilitates easier centring whilst supporting faster drilling in the workpiece. The new point cut geometry dramatically reduces lateral forces.









The optimised chip geometry ensures ideal chip and heat removal. The service life of the step drill is substantially improved thanks to the significant reduction in heat development. The ideal balance between optimised cutting and service life is achieved through the step drills special wedge angle.

80% when drilling. Every step on the tool is designed with a special optimised relief, clearance angle,

which prevents the edge from breaking out and from catching in the workpiece.



The smooth drilling operation of the step drill means there is no 'warping' when drilling thinner materials.

Reductions in torque forces from the step drill, protect the drilling machine from overload and enable an 'easy to use' hole making solution.























Step drills HSS and HSSE-Co 5, CBN ground, spiral fluted with split point

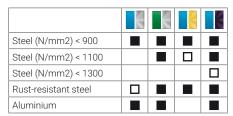
The CBN ground and spiral flutes guarantee quiet running and high cutting performance. Especially the chip flow is optimized, so even long, non-breaking chips will be removed easily. The optimized chip flow protects the cutting edges and reduces built-up edges and cold weld marks. The cone makes it easier to withdraw the tool from the material.

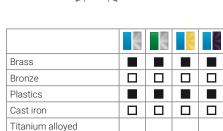
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Packing unit: in plastic tubes of 1



- Adjust speed
- Do not press
- Step drill is pulled automatically into the plate





Size no.	Ø1 - Ø2 mm	L1 mm	Steps	Ø3 mm	HSS	HSSE Co 5	HSS TiN	HSS TIAIN	*
0/5	4,0 - 12,00	65,0	5	6,0	101 050-5	_	101 050-5 T	101 050-5 F	1
0/9	4,0 - 12,00	65,0	9	6,0	101 050-9	101 050-9 E	101 050-9 T	101 050-9 F	1
1	4,0 - 20,00	75,0	9	8,0	101 051	101 051 E	101 051 T	101 051 F	1
2	4,0 - 30,00	100,0	14	10,0	101 052	101 052 E	101 052 T	101 052 F	1
3	6,0 - 38,00	100,0	12	10,0	101 053	_	101 053 T	101 053 F	1
4	6,0 - 26,75	75,0	8	10,0	101 055	_	101 055 T	101 055 F	1
5	4,0 - 39,00	107,0	13	10,0	101 056	101 056 E	101 056 T	101 056 F	1
6	6,0 - 32,00	75,0	8	10,0	101 057	_	101 057 T	101 057 F	1
7	5,0 - 28,00	69,0	7	10,0	101 058	_	101 058 T	101 058 F	1
8	6,0 - 30,50	80,0	9	10,0	101 098	_	101 098 T	101 098 F	1
9	6,0 - 37,00	100,0	12	10,0	101 060	101 060 E	101 060 T	101 060 F	1
12	6,0 - 32,00	76,0	9	10,0	101 096	_	101 096 T	101 096 F	1
13	6,0 - 40,00	105,0	16	13,0	101 097	_	101 097 T	101 097 F	1
18	6,5 - 32,50	91,0	12	10,0	_	101 534 E	_	_	1

* straight flute

Size no.	Drilling range Ø mm
0/5	4,0 / 6,0 / 8,0 / 10,0 / 12,0
0/9	4,0 / 5,0 / 6,0 / 7,0 / 8,0 / 9,0 / 10,0 / 11,0 / 12,0
1	4,0 / 6,0 / 8,0 / 10,0 / 12,0 / 14,0 / 16,0 / 18,0 / 20,0
2	4,0 / 6,0 / 8,0 / 10,0 / 12,0 / 14,0 / 16,0 / 18,0 / 20,0 / 22,0 / 24,0 / 26,0 / 28,0 / 30,0
3	6,0 / 9,0 / 13,0 / 16,0 / 19,0 / 21,0 / 23,0 / 26,0 / 29,0 / 32,0 / 35,0 / 38,0
4	6,0 / 9,0 / 11,4 (PG7) / 14,0 (PG9) / 17,25 (PG11) / 19,0 (PG13,5) / 21,25 (PG16) / 26,75 (PG21)
5	4,0 / 6,0 / 12,0 / 15,0 / 18,0 / 21,0 / 24,0 / 27,0 / 30,0 / 33,0 / 36,0 / 39,0
6	6,0 / 9,0 / 11,2 (R1/8) / 14,5 (R1/4) / 18,2 (R3/8) / 22,3 (R1/2) / 27,9 (R3/4) / 32,0
7	5,0 / 8,8 (G1/8) / 11,8 (G1/4) / 15,3 (G3/8) / 19,0 (G1/2) / 24,5 (G3/4) / 28,0
8	6,0 / 9,0 / 12,5 (PG7) / 15,2 (PG9) / 18,6 (PG11) / 20,4 (PG13,5) / 22,5 (PG16) / 28,3 (PG21) / 30,5
9	6,0 / 9,0 / 12,5 (PG7) / 15,2 (PG9) / 18,6 (PG11) / 20,4 (PG13,5) / 22,5 (PG16) / 26,0 / 28,3 (PG21) / 30,5 / 34,0 / 37,0 (PG29)
12	6,0 / 9,0 / 12,0 / 16,0 / 20,0 / 22,5 / 25,0 / 28,5 / 32,0
13	6,0 / 11,0 / 17,0 / 23,0 / 29,0 / 30,0 / 31,0 / 32,0 / 33,0 / 34,0 / 35,0 / 36,0 / 37,0 / 38,0 / 39,0 / 40,0
18	6,5 / 8,5 / 10,5 / 12,7 / 15,2 (PG9) / 16,2 / 18,6 (PG11) / 20,4 (PG13,5) / 22,5 (PG16) / 25,5 / 28,3 (PG21) / 32,5





















Step drill sets HSS and HSSE-Co 5 in steel case

	HSS	HSSE Co 5	HSS TIN	HSS
3-piece set of step drills spiral fluted, sizes 0/9, 1, 2	101 026	101 026 E	101 026 T	101 026 F









Step drill sets HSS and HSSE-Co 5 in plastic case

	HSS	HSSE Co 5	HSS TIN	HSS
3-piece set of step drills spiral fluted, sizes 0/9, 1, 2	101 026 RO	101 026 ERO	101 026 TRO	101 026 FRO









Outstanding performance in:

Sheets made from construction steels, high alloyed steel, stainless steel, brass, Perspex®, wood, chrome plated steel, aluminium.





















Steel, aluminium, cast iron



Wood and coated panels



Plastics



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www.**ruko**.de



RUKO GmbH PRÄZISIONSWERKZEUGE

Robert-Bosch-Straße 7-11 71088 Holzgerlingen Germany

Tel.: +49(0)7031 / 6800-0 www.ruko.de | www.ultimatecut.de info@ruko.de Export sales

Tel.: +49(0)7031 / 6800-54 / 84 / 85 / 790 Fax. +49(0)7031 / 6800-21 / 66

