

**8143921 | PHOENIX metal drill bit HSS-E5 (cobalt 5%)  
-TiAlN coated -DIN338 -h8 -3xd -Type S**

High performance drill (2xØ) for drilling hard, difficult to machine metals. TiAlN coating gives a longer life and lower cutting forces. Made in France.



- **Drilling of hard and difficult to machine metals [Hardox, Inconel...]**
- **Maximum long life**
- **Ultra-precise drilling**
- **Made in France**
  
- 1/3 2/3 grinding
- Cylindrical shank
- Type S flute
- 5% cobalt HSS
- TiAlN coating

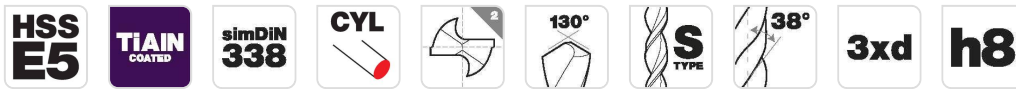
**Machine**



**Application**



**Features**



**Properties and benefits**

- + 1/3 2/3 grinding: with tapering and indicator. ➡ Reduces cutting effort while maintaining good tip strength.
- + Cylindrical shank: the diameter of the shank is equal to the diameter of the tip. ➡ Enables versatile use on portable electrical tools and CNC machine tools.
- + Type S flute: deep flute ➡ Suitable for deep drilling and for materials with chips that are difficult to extract.
- + 5% cobalt high-speed steel: HSS substrate enriched with 5% cobalt. Improved heat retention (strength, cutting sharpness) ➡ For general use in metals up to 1200 N/mm<sup>2</sup>.
- + TiAlN coating: TiAlN base, thickness 2/4µm, hardness 3000HV, coefficient of friction 0.4, heat resistance 900°C. ➡ Thermal shield. Allows you to increase service life, cutting speed, and progress. Reduces the axial load. Versatile uses.



Code	EAN	Ø	d2/CM	L	l	lu	QTY	PCB
81439210250	3221910784959	2.5	2.5	57	30	1	10	
81439210260	3221910784966	2.6	2.6	57	30	1	10	
81439210270	3221910784973	2.7	2.7	61	33	1	10	
81439210280	3221910784980	2.8	2.8	61	33	1	10	
81439210290	3221910784997	2.9	2.9	61	33	1	10	
81439210300	3221910785000	3	3	61	33	1	10	
81439210310	3221910785017	3.1	3.1	65	36	1	10	
81439210320	3221910785024	3.2	3.2	65	36	1	10	
81439210325	3221910785031	3.25	3.25	65	36	1	10	
81439210330	3221910785048	3.3	3.3	65	36	1	10	
81439210340	3221910785055	3.4	3.4	70	39	1	10	
81439210350	3221910785062	3.5	3.5	70	39	1	10	
81439210360	3221910785079	3.6	3.6	70	39	1	10	
81439210370	3221910785086	3.7	3.7	70	39	1	10	
81439210380	3221910785093	3.8	3.8	75	43	1	10	

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81439210390	3221910785109	3.9	3.9	75	43	1	10
81439210400	3221910785116	4	4	75	43	1	10
81439210410	3221910785123	4.1	4.1	75	43	1	10
81439210420	3221910785130	4.2	4.2	75	43	1	10
81439210430	3221910785154	4.3	4.3	80	47	1	10
81439210440	3221910785161	4.4	4.4	80	47	1	10
81439210450	3221910785178	4.5	4.5	80	47	1	10
81439210460	3221910785185	4.6	4.6	80	47	1	10
81439210470	3221910785192	4.7	4.7	80	47	1	10
81439210480	3221910785215	4.8	4.8	86	52	1	10
81439210490	3221910785222	4.9	4.9	86	52	1	10
81439210500	3221910785239	5	5	86	52	1	10
81439210510	3221910785246	5.1	5.1	86	52	1	10
81439210520	3221910785253	5.2	5.2	86	52	1	10
81439210530	3221910785277	5.3	5.3	86	52	1	10
81439210540	3221910785284	5.4	5.4	93	57	1	10
81439210550	3221910785291	5.5	5.5	93	57	1	10
81439210560	3221910785307	5.6	5.6	93	57	1	10
81439210570	3221910785314	5.7	5.7	93	57	1	10
81439210580	3221910785338	5.8	5.8	93	57	1	10
81439210590	3221910785345	5.9	5.9	93	57	1	10
81439210600	3221910785352	6	6	93	57	1	10
81439210610	3221910785369	6.1	6.1	101	63	1	10
81439210620	3221910785376	6.2	6.2	101	63	1	10
81439210630	3221910785390	6.3	6.3	101	63	1	10
81439210640	3221910785406	6.4	6.4	101	63	1	10
81439210650	3221910785413	6.5	6.5	101	63	1	10
81439210660	3221910785420	6.6	6.6	101	63	1	10
81439210670	3221910785437	6.7	6.7	101	63	1	10
81439210680	3221910785451	6.8	6.8	109	69	1	10
81439210690	3221910785468	6.9	6.9	109	69	1	10
81439210700	3221910785475	7	7	109	69	1	10
81439210710	3221910785482	7.1	7.1	109	69	1	10
81439210720	3221910785499	7.2	7.2	109	69	1	10
81439210730	3221910785512	7.3	7.3	109	69	1	10
81439210740	3221910785529	7.4	7.4	109	69	1	10
81439210750	3221910785536	7.5	7.5	109	69	1	10
81439210760	3221910785543	7.6	7.6	117	75	1	10
81439210770	3221910785550	7.7	7.7	117	75	1	10
81439210780	3221910785574	7.8	7.8	117	75	1	10
81439210790	3221910785581	7.9	7.9	117	75	1	10
81439210800	3221910785598	8	8	117	75	1	10
81439210810	3221910785604	8.1	8.1	117	75	1	5
81439210820	3221910785611	8.2	8.2	117	75	1	5
81439210830	3221910785635	8.3	8.3	117	75	1	5
81439210840	3221910785642	8.4	8.4	117	75	1	5
81439210850	3221910785659	8.5	8.5	117	75	1	5
81439210860	3221910785666	8.6	8.6	125	81	1	5
81439210870	3221910785673	8.7	8.7	125	81	1	5
81439210880	3221910785680	8.8	8.8	125	81	1	5
81439210890	3221910785697	8.9	8.9	125	81	1	5
81439210900	3221910785703	9	9	125	81	1	5
81439210910	3221910785710	9.1	9.1	125	81	1	5
81439210920	3221910785727	9.2	9.2	125	81	1	5
81439210930	3221910785734	9.3	9.3	125	81	1	5
81439210940	3221910785741	9.4	9.4	125	81	1	5
81439210950	3221910785758	9.5	9.5	125	81	1	5
81439210960	3221910785765	9.6	9.6	133	87	1	5
81439210970	3221910785772	9.7	9.7	133	87	1	5
81439210980	3221910785789	9.8	9.8	133	87	1	5
81439210990	3221910785796	9.9	9.9	133	87	1	5
81439211000	3221910785802	10	10	133	87	1	5
81439211020	3221910785819	10.2	10.2	133	87	1	5
81439211050	3221910785833	10.5	10.5	133	87	1	5
81439211080	3221910785857	10.8	10.8	142	94	1	5



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81439211100	3221910785864	11	11	142	94	1	5
81439211150	3221910785888	11.5	11.5	142	94	1	5
81439211180	3221910785895	11.8	11.8	142	94	1	5
81439211200	3221910785901	12	12	151	101	1	5
81439211250	3221910785925	12.5	12.5	151	101	1	5
81439211300	3221910785949	13	13	151	101	1	5