

Drilling of nickel/cobalt compounds and titanium. High performance. Made in France



- Especially for refractory alloys
- Especially for Hard steels
- Compact drill bit
- Superior long life
- Made in France
  
- Automatic centring
- Cylindrical shank
- 28° type N flute
- 8% cobalt HSS
- 135° tip

**Machine**



**Application**



**Features**



**Properties and benefits**

- + Split-point grinding:reduction of the drill tip. ➡ Enables the simple self-centring of the drill bit on the smoothest of surfaces. Significantly reduces the required axial load.
- + 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.
- + 28° type N flute : normal flute profile with a 28° helix angle. ➡ Suitable for general use. Provides good rigidity to the tool, as well as excellent drilling precision.
- + 8% cobalt high-speed steel : HSS substrate enriched with 5% cobalt. Improved heat retention (strength, cutting sharpness). ➡ For general use in metals up to 1400 N/mm<sup>2</sup>;
- + 135° tip: 135° tip angle for the sharpening of the drill bit. ➡ Suitable for strong and difficult materials. Enables a shorter and stronger cutting edge, thus prolonging the service life.



Code	EAN	Ø	d2/CM	L	l	lu	QTY	PCB
81403110200	3221910735753	2	2	38	12	1	10	10
81403110210	3221910735760	2.1	2.1	38	12	1	10	10
81403110220	3221910735777	2.2	2.2	40	13	1	10	10
81403110230	3221910735784	2.3	2.3	40	13	1	10	10
81403110240	3221910735791	2.4	2.4	43	14	1	10	10
81403110250	3221910735807	2.5	2.5	43	14	1	10	10
81403110260	3221910735814	2.6	2.6	43	14	1	10	10
81403110270	3221910735821	2.7	2.7	46	16	1	10	10
81403110280	3221910735838	2.8	2.8	46	16	1	10	10
81403110290	3221910735845	2.9	2.9	46	16	1	10	10
81403110300	3221910735852	3	3	46	16	1	10	10
81403110310	3221910735869	3.1	3.1	49	18	1	10	10

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81403110320	3221910735876	3.2	3.2	49	18	1	10
81403110330	3221910735883	3.3	3.3	49	18	1	10
81403110340	3221910735890	3.4	3.4	52	20	1	10
81403110350	3221910735906	3.5	3.5	52	20	1	10
81403110360	3221910735913	3.6	3.6	52	20	1	10
81403110370	3221910735920	3.7	3.7	52	20	1	10
81403110380	3221910735937	3.8	3.8	55	22	1	10
81403110390	3221910735944	3.9	3.9	55	22	1	10
81403110400	3221910735951	4	4	55	22	1	10
81403110410	3221910735968	4.1	4.1	55	22	1	10
81403110420	3221910735975	4.2	4.2	55	22	1	10
81403110430	3221910735982	4.3	4.3	58	24	1	10
81403110440	3221910735999	4.4	4.4	58	24	1	10
81403110450	3221910736002	4.5	4.5	58	24	1	10
81403110460	3221910736019	4.6	4.6	58	24	1	10
81403110470	3221910736026	4.7	4.7	58	24	1	10
81403110480	3221910736033	4.8	4.8	62	26	1	10
81403110490	3221910736040	4.9	4.9	62	26	1	10
81403110500	3221910736057	5	5	62	26	1	10
81403110510	3221910736064	5.1	5.1	62	26	1	10
81403110520	3221910736071	5.2	5.2	62	26	1	10
81403110530	3221910736088	5.3	5.3	62	26	1	10
81403110540	3221910736095	5.4	5.4	66	28	1	10
81403110550	3221910736101	5.5	5.5	66	28	1	10
81403110560	3221910736118	5.6	5.6	66	28	1	10
81403110570	3221910736125	5.7	5.7	66	28	1	10
81403110580	3221910736132	5.8	5.8	66	28	1	10
81403110590	3221910736149	5.9	5.9	66	28	1	10
81403110600	3221910736156	6	6	66	28	1	10
81403110610	3221910736163	6.1	6.1	70	31	1	10
81403110620	3221910736170	6.2	6.2	70	31	1	10
81403110630	3221910736187	6.3	6.3	70	31	1	10
81403110640	3221910736194	6.4	6.4	70	31	1	10
81403110650	3221910736200	6.5	6.5	70	31	1	10
81403110660	3221910736217	6.6	6.6	70	31	1	10
81403110670	3221910736224	6.7	6.7	70	31	1	10
81403110680	3221910736231	6.8	6.8	74	34	1	10
81403110690	3221910736248	6.9	6.9	74	34	1	10
81403110700	3221910736255	7	7	74	34	1	10
81403110720	3221910736262	7.2	7.2	74	34	1	10
81403110750	3221910736279	7.5	7.5	74	34	1	10
81403110780	3221910736286	7.8	7.8	79	37	1	10
81403110800	3221910736293	8	8	79	37	1	10
81403110820	3221910736309	8.2	8.2	79	37	1	5
81403110850	3221910736316	8.5	8.5	79	37	1	5
81403110880	3221910736323	8.8	8.8	84	40	1	5
81403110900	3221910736330	9	9	84	40	1	5
81403110950	3221910736347	9.5	9.5	84	40	1	5
81403111000	3221910736354	10	10	89	43	1	5
81403111050	3221910736361	10.5	10.5	89	43	1	5
81403111100	3221910736378	11	11	95	47	1	5
81403111150	3221910736385	11.5	11.5	95	47	1	5
81403111200	3221910736392	12	12	102	51	1	5
81403111250	3221910736408	12.5	12.5	102	51	1	5
81403111300	3221910736415	13	13	102	51	1	5