

laminated drill bit for drilling of ordinary steels. Occasional use



- Especially for soft steels and plastics
- Economical drill bit

- Conventional point
- Cylindrical shank
- 30° type N flute
- High-speed steel
- 118° tip

Machine



Application



O3-
PLASTICS

Features



Properties and benefits

- + Conventional grinding: with a standard point sharpening ➡ Simple and robust, for versatile use. Enables good hole precision and wear resistance.
- + 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.
- + 30° type N flute: normal flute profile with a 30° helix angle. ➡ Suitable for general use. Provides good rigidity to the tool, as well as excellent drilling precision.
- + High-speed steel: HSS substrate ➡ For general use in steels and cast irons up to 950 N/mm²
- + 118° tip: 118° tip angle for the sharpening of the drill bit. ➡ Suitable for general use in materials with long shavings. Enables the rapid attach of the material and simple centring.



Code	EAN	Ø	d2/CM	L	l	lu	QTY	PCB
90200110050	3221910100346	0.5	0.5	22	6		1	10
90200110060	3221910100353	0.6	0.6	24	7		1	10
90200110070	3221910100360	0.7	0.7	28	9		1	10
90200110080	3221910100384	0.8	0.8	30	10		1	10
90200110090	3221910100391	0.9	0.9	32	11		1	10
90200110100	3221910813673	1	1	32	11		1	10
90200110110	3221910100414	1.1	1.1	36	14		1	10
90200110120	3221910100421	1.2	1.2	38	16		1	10
90200110130	3221910100445	1.3	1.3	38	16		1	10
90200110140	3221910100452	1.4	1.4	40	18		1	10
90200110150	3221910813680	1.5	1.5	40	18		1	10
90200110160	3221910100476	1.6	1.6	43	20		1	10
90200110170	3221910100483	1.7	1.7	43	20		1	10
90200110180	3221910100506	1.8	1.8	46	22		1	10
90200110190	3221910100513	1.9	1.9	46	22		1	10
90200110200	3221910813697	2	2	49	24		1	10
90200110210	3221910100537	2.1	2.1	49	24		1	10

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90200110220	3221910100544	2.2	2.2	53	27	1	10
90200110225	3221910100551	2.25	2.25	53	27	1	10
90200110230	3221910100568	2.3	2.3	53	27	1	10
90200110240	3221910100575	2.4	2.4	57	30	1	10
90200110250	3221910813703	2.5	2.5	57	30	1	10
90200110260	3221910100599	2.6	2.6	57	30	1	10
90200110270	3221910100605	2.7	2.7	61	33	1	10
90200110275	3221910100612	2.75	2.75	61	33	1	10
90200110280	3221910100629	2.8	2.8	61	33	1	10
90200110290	3221910100636	2.9	2.9	61	33	1	10
90200110300	3221910813710	3	3	61	33	1	10
90200110310	3221910100650	3.1	3.1	65	36	1	10
90200110320	3221910813727	3.2	3.2	65	36	1	10
90200110325	3221910100674	3.25	3.25	65	36	1	10
90200110330	3221910100681	3.3	3.3	65	36	1	10
90200110340	3221910100698	3.4	3.4	70	39	1	10
90200110350	3221910813734	3.5	3.5	70	39	1	10
90200110360	3221910100711	3.6	3.6	70	39	1	10
90200110370	3221910100728	3.7	3.7	70	39	1	10
90200110375	3221910100735	3.75	3.75	70	39	1	10
90200110380	3221910100742	3.8	3.8	75	43	1	10
90200110390	3221910100759	3.9	3.9	75	43	1	10
90200110400	3221910813741	4	4	75	43	1	10
90200110410	3221910100773	4.1	4.1	75	43	1	10
90200110420	3221910813758	4.2	4.2	75	43	1	10
90200110425	3221910100797	4.25	4.25	75	43	1	10
90200110430	3221910100803	4.3	4.3	80	47	1	10
90200110440	3221910100810	4.4	4.4	80	47	1	10
90200110450	3221910813765	4.5	4.5	80	47	1	10
90200110460	3221910100834	4.6	4.6	80	47	1	10
90200110470	3221910100841	4.7	4.7	80	47	1	10
90200110475	3221910100858	4.75	4.75	80	47	1	10
90200110480	3221910100865	4.8	4.8	86	52	1	10
90200110490	3221910100872	4.9	4.9	86	52	1	10
90200110500	3221910813772	5	5	86	52	1	10
90200110510	3221910100896	5.1	5.1	86	52	1	10
90200110520	3221910813789	5.2	5.2	86	52	1	10
90200110525	3221910100919	5.25	5.25	86	52	1	10
90200110530	3221910100926	5.3	5.3	86	52	1	10
90200110540	3221910100933	5.4	5.4	93	57	1	10
90200110550	3221910813796	5.5	5.5	93	57	1	10
90200110560	3221910100957	5.6	5.6	93	57	1	10
90200110570	3221910100964	5.7	5.7	93	57	1	10
90200110580	3221910100988	5.8	5.8	93	57	1	10
90200110590	3221910100995	5.9	5.9	93	57	1	10
90200110600	3221910813802	6	6	93	57	1	10
90200110610	3221910101015	6.1	6.1	101	63	1	10
90200110620	3221910813819	6.2	6.2	101	63	1	10
90200110625	3221910101039	6.25	6.25	101	63	1	10
90200110630	3221910101046	6.3	6.3	101	63	1	10
90200110640	3221910101053	6.4	6.4	101	63	1	10
90200110650	3221910813826	6.5	6.5	101	63	1	10
90200110660	3221910101077	6.6	6.6	101	63	1	10
90200110670	3221910813833	6.7	6.7	101	63	1	10
90200110675	3221910101091	6.75	6.75	109	69	1	10
90200110680	3221910101107	6.8	6.8	109	69	1	10
90200110690	3221910101114	6.9	6.9	109	69	1	10
90200110700	3221910813840	7	7	109	69	1	10
90200110710	3221910101138	7.1	7.1	109	69	1	10
90200110720	3221910101145	7.2	7.2	109	69	1	10
90200110730	3221910101169	7.3	7.3	109	69	1	10
90200110740	3221910101176	7.4	7.4	109	69	1	10
90200110750	3221910813857	7.5	7.5	109	69	1	10
90200110760	3221910101190	7.6	7.6	117	75	1	10
90200110770	3221910101206	7.7	7.7	117	75	1	10

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90200110780	3221910101220	7.8	7.8	117	75	1	10
90200110790	3221910101237	7.9	7.9	117	75	1	10
90200110800	3221910813864	8	8	117	75	1	10
90200110810	3221910101251	8.1	8.1	117	75	1	5
90200110820	3221910101268	8.2	8.2	117	75	1	5
90200110825	3221910101275	8.25	8.25	117	75	1	5
90200110830	3221910101282	8.3	8.3	117	75	1	5
90200110840	3221910101299	8.4	8.4	117	75	1	5
90200110850	3221910813871	8.5	8.5	117	75	1	5
90200110860	3221910101312	8.6	8.6	125	81	1	5
90200110870	3221910101329	8.7	8.7	125	81	1	5
90200110875	3221910101336	8.75	8.75	125	81	1	5
90200110880	3221910101343	8.8	8.8	125	81	1	5
90200110890	3221910101350	8.9	8.9	125	81	1	5
90200110900	3221910813888	9	9	125	81	1	5
90200110910	3221910101374	9.1	9.1	125	81	1	5
90200110920	3221910101381	9.2	9.2	125	81	1	5
90200110940	3221910101411	9.4	9.4	125	81	1	5
90200110950	3221910813895	9.5	9.5	125	81	1	5
90200110980	3221910101466	9.8	9.8	133	87	1	5
90200111000	3221910813901	10	10	133	87	1	5
90200111020	3221910813918	10.2	10.2	133	87	1	5
90200111025	3221910101510	10.25	10.25	133	87	1	5
90200111050	3221910813925	10.5	10.5	133	87	1	5
90200111100	3221910813932	11	11	142	94	1	5
90200111120	3221910101626	11.2	11.2	142	94	1	5
90200111150	3221910813949	11.5	11.5	142	94	1	5
90200111200	3221910813956	12	12	151	101	1	5
90200111250	3221910813963	12.5	12.5	151	101	1	5
90200111300	3221910813970	13	13	151	101	1	5
90200111350	3221910101909	13.5	13.5	160	108	1	5
90200111400	3221910101961	14	14	160	108	1	5
90200111450	3221910101992	14.5	14.5	169	114	1	5
90200111500	3221910102029	15	15	169	114	1	5
90200111550	3221910102050	15.5	15.5	169	114	1	1
90200111600	3221910102081	16	16	178	120	1	1
90200111650	3221910102098	16.5	16.5	184	125	1	1
90200111700	3221910102104	17	17	184	125	1	1
90200111750	3221910102111	17.5	17.5	191	130	1	1
90200111800	3221910102128	18	18	191	130	1	1
90200111850	3221910102135	18.5	18.5	198	135	1	1
90200111900	3221910102142	19	19	198	135	1	1
90200111950	3221910102159	19.5	19.5	205	140	1	1
90200112000	3221910102166	20	20	205	140	1	1