

# 1145611 | TBX metal drill bit HSS-E5 (cobalt 5%) -BLADE coated -DIN338 -h8 -3xd -4 faces

High perf drill (3xØ) for very fast and intensive drilling of stainless steels thanks to its cobalt substrate and its 4-faces grinding. BLADE coated. Made in France.



- Especially for stainless steel and high-strength steels
- Incredibly fast drilling
- Maximum long life
- Ultra-precise drilling
- Made in France
- 4-sided grinding
- 35° type N flute
- 5% cobalt HSS
- 135° tip
- BLADE coating

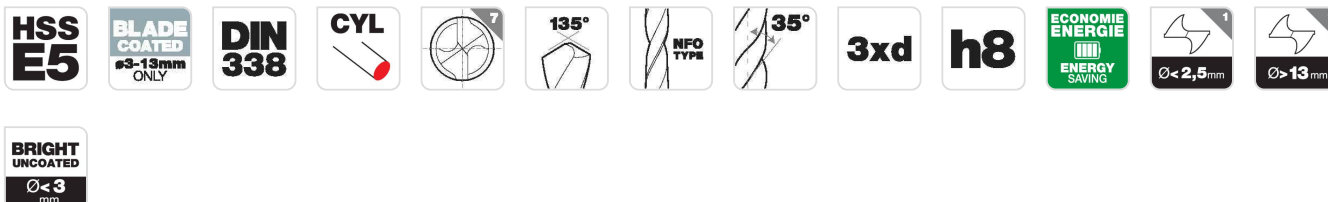
## Machine



## Application



## Features



## Properties and benefits

- + 4-sided grinding: directly derived from the grinding of monobloc carbide drill bits. Flat cutting and undercutting sides with a constant clearance angle. ➡ Very high stability and excellent precision Particularly well-suited for difficult drilling applications (stainless steel...)
- + 35° type N flute: normal flute profile with a 35° helix angle. ➡ Suitable for strong and difficult materials. Enables finer edge sharpness, for reduced cutting effort.
- + 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/mm².
- + 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.
- + BLADE coating: TiAlN+TiCN base, thickness 2/4µm, hardness 3300HV, coefficient of friction 0.4, heat resistance 700°C. ➡ Thermal shield. Allows you to significantly increase service life, cutting speed, and progress. Reduces the axial load. Especially for stainless steel.



| Code        | EAN           | Ø   | d2/CM | L  | I  | lu | QTY | PCB |
|-------------|---------------|-----|-------|----|----|----|-----|-----|
| 11456110100 | 3221912003485 | 1   | 1     | 34 | 12 | 1  | 10  |     |
| 11456110110 | 3221912003492 | 1.1 | 1.1   | 36 | 14 | 1  | 10  |     |
| 11456110120 | 3221912003508 | 1.2 | 1.2   | 38 | 16 | 1  | 10  |     |
| 11456110130 | 3221912003515 | 1.3 | 1.3   | 38 | 16 | 1  | 10  |     |
| 11456110140 | 3221912003522 | 1.4 | 1.4   | 40 | 18 | 1  | 10  |     |
| 11456110150 | 3221912003539 | 1.5 | 1.5   | 40 | 18 | 1  | 10  |     |
| 11456110160 | 3221912003546 | 1.6 | 1.6   | 43 | 20 | 1  | 10  |     |
| 11456110170 | 3221912003553 | 1.7 | 1.7   | 43 | 20 | 1  | 10  |     |

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|             |               |     |     |     |    |   |    |
|-------------|---------------|-----|-----|-----|----|---|----|
| 11456110180 | 3221912003560 | 1.8 | 1.8 | 46  | 22 | 1 | 10 |
| 11456110190 | 3221912003577 | 1.9 | 1.9 | 46  | 22 | 1 | 10 |
| 11456110200 | 3221912003584 | 2   | 2   | 49  | 24 | 1 | 10 |
| 11456110210 | 3221912003591 | 2.1 | 2.1 | 49  | 24 | 1 | 10 |
| 11456110220 | 3221912003607 | 2.2 | 2.2 | 53  | 27 | 1 | 10 |
| 11456110230 | 3221912003614 | 2.3 | 2.3 | 53  | 27 | 1 | 10 |
| 11456110240 | 3221912003621 | 2.4 | 2.4 | 57  | 30 | 1 | 10 |
| 11456110250 | 3221912003638 | 2.5 | 2.5 | 57  | 30 | 1 | 10 |
| 11456110260 | 3221912003645 | 2.6 | 2.6 | 57  | 30 | 1 | 10 |
| 11456110270 | 3221912003652 | 2.7 | 2.7 | 61  | 33 | 1 | 10 |
| 11456110280 | 3221912003669 | 2.8 | 2.8 | 61  | 33 | 1 | 10 |
| 11456110290 | 3221912003676 | 2.9 | 2.9 | 61  | 33 | 1 | 10 |
| 11456110300 | 3221912003683 | 3   | 3   | 61  | 33 | 1 | 10 |
| 11456110310 | 3221912003690 | 3.1 | 3.1 | 65  | 36 | 1 | 10 |
| 11456110320 | 3221912003706 | 3.2 | 3.2 | 65  | 36 | 1 | 10 |
| 11456110330 | 3221912003713 | 3.3 | 3.3 | 65  | 36 | 1 | 10 |
| 11456110340 | 3221912003720 | 3.4 | 3.4 | 70  | 39 | 1 | 10 |
| 11456110350 | 3221912003737 | 3.5 | 3.5 | 70  | 39 | 1 | 10 |
| 11456110360 | 3221912003744 | 3.6 | 3.6 | 70  | 39 | 1 | 10 |
| 11456110370 | 3221912003751 | 3.7 | 3.7 | 70  | 39 | 1 | 10 |
| 11456110380 | 3221912003768 | 3.8 | 3.8 | 75  | 43 | 1 | 10 |
| 11456110390 | 3221912003775 | 3.9 | 3.9 | 75  | 43 | 1 | 10 |
| 11456110400 | 3221912003782 | 4   | 4   | 75  | 43 | 1 | 10 |
| 11456110410 | 3221912003799 | 4.1 | 4.1 | 75  | 43 | 1 | 10 |
| 11456110420 | 3221912003805 | 4.2 | 4.2 | 75  | 43 | 1 | 10 |
| 11456110430 | 3221912003812 | 4.3 | 4.3 | 80  | 47 | 1 | 10 |
| 11456110440 | 3221912003829 | 4.4 | 4.4 | 80  | 47 | 1 | 10 |
| 11456110450 | 3221912003836 | 4.5 | 4.5 | 80  | 47 | 1 | 10 |
| 11456110460 | 3221912003843 | 4.6 | 4.6 | 80  | 47 | 1 | 10 |
| 11456110470 | 3221912003850 | 4.7 | 4.7 | 80  | 47 | 1 | 10 |
| 11456110480 | 3221912003867 | 4.8 | 4.8 | 86  | 52 | 1 | 10 |
| 11456110490 | 3221912003874 | 4.9 | 4.9 | 86  | 52 | 1 | 10 |
| 11456110500 | 3221912003881 | 5   | 5   | 86  | 52 | 1 | 10 |
| 11456110510 | 3221912003898 | 5.1 | 5.1 | 86  | 52 | 1 | 10 |
| 11456110520 | 3221912003904 | 5.2 | 5.2 | 86  | 52 | 1 | 10 |
| 11456110530 | 3221912003911 | 5.3 | 5.3 | 86  | 52 | 1 | 10 |
| 11456110540 | 3221912003928 | 5.4 | 5.4 | 93  | 57 | 1 | 10 |
| 11456110550 | 3221912003935 | 5.5 | 5.5 | 93  | 57 | 1 | 10 |
| 11456110560 | 3221912003942 | 5.6 | 5.6 | 93  | 57 | 1 | 10 |
| 11456110570 | 3221912003959 | 5.7 | 5.7 | 93  | 57 | 1 | 10 |
| 11456110580 | 3221912003966 | 5.8 | 5.8 | 93  | 57 | 1 | 10 |
| 11456110590 | 3221912003973 | 5.9 | 5.9 | 93  | 57 | 1 | 10 |
| 11456110600 | 3221912003980 | 6   | 6   | 93  | 57 | 1 | 10 |
| 11456110610 | 3221912003997 | 6.1 | 6.1 | 101 | 63 | 1 | 10 |
| 11456110620 | 3221912004000 | 6.2 | 6.2 | 101 | 63 | 1 | 10 |
| 11456110630 | 3221912004017 | 6.3 | 6.3 | 101 | 63 | 1 | 10 |
| 11456110640 | 3221912004024 | 6.4 | 6.4 | 101 | 63 | 1 | 10 |
| 11456110650 | 3221912004031 | 6.5 | 6.5 | 101 | 63 | 1 | 10 |
| 11456110660 | 3221912004048 | 6.6 | 6.6 | 101 | 63 | 1 | 10 |
| 11456110670 | 3221912004055 | 6.7 | 6.7 | 101 | 63 | 1 | 10 |
| 11456110680 | 3221912004062 | 6.8 | 6.8 | 109 | 69 | 1 | 10 |
| 11456110690 | 3221912004079 | 6.9 | 6.9 | 109 | 69 | 1 | 10 |
| 11456110700 | 3221912004086 | 7   | 7   | 109 | 69 | 1 | 10 |
| 11456110710 | 3221912004093 | 7.1 | 7.1 | 109 | 69 | 1 | 10 |
| 11456110720 | 3221912004109 | 7.2 | 7.2 | 109 | 69 | 1 | 10 |
| 11456110730 | 3221912004116 | 7.3 | 7.3 | 109 | 69 | 1 | 10 |
| 11456110740 | 3221912004123 | 7.4 | 7.4 | 109 | 69 | 1 | 10 |
| 11456110750 | 3221912004130 | 7.5 | 7.5 | 109 | 69 | 1 | 10 |
| 11456110760 | 3221912004147 | 7.6 | 7.6 | 117 | 75 | 1 | 10 |
| 11456110770 | 3221912004154 | 7.7 | 7.7 | 117 | 75 | 1 | 10 |
| 11456110780 | 3221912004161 | 7.8 | 7.8 | 117 | 75 | 1 | 10 |
| 11456110790 | 3221912004178 | 7.9 | 7.9 | 117 | 75 | 1 | 10 |
| 11456110800 | 3221912004185 | 8   | 8   | 117 | 75 | 1 | 10 |
| 11456110810 | 3221912004208 | 8.1 | 8.1 | 117 | 75 | 1 | 5  |
| 11456110820 | 3221912004215 | 8.2 | 8.2 | 117 | 75 | 1 | 5  |

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|             |               |      |      |     |     |   |   |
|-------------|---------------|------|------|-----|-----|---|---|
| 11456110830 | 3221912004222 | 8.3  | 8.3  | 117 | 75  | 1 | 5 |
| 11456110840 | 3221912004239 | 8.4  | 8.4  | 117 | 75  | 1 | 5 |
| 11456110850 | 3221912004246 | 8.5  | 8.5  | 117 | 75  | 1 | 5 |
| 11456110860 | 3221912004253 | 8.6  | 8.6  | 125 | 81  | 1 | 5 |
| 11456110870 | 3221912004260 | 8.7  | 8.7  | 125 | 81  | 1 | 5 |
| 11456110880 | 3221912004277 | 8.8  | 8.8  | 125 | 81  | 1 | 5 |
| 11456110890 | 3221912004284 | 8.9  | 8.9  | 125 | 81  | 1 | 5 |
| 11456110900 | 3221912004291 | 9    | 9    | 125 | 81  | 1 | 5 |
| 11456110910 | 3221912004307 | 9.1  | 9.1  | 125 | 81  | 1 | 5 |
| 11456110920 | 3221912004314 | 9.2  | 9.2  | 125 | 81  | 1 | 5 |
| 11456110930 | 3221912004321 | 9.3  | 9.3  | 125 | 81  | 1 | 5 |
| 11456110940 | 3221912004338 | 9.4  | 9.4  | 125 | 81  | 1 | 5 |
| 11456110950 | 3221912004345 | 9.5  | 9.5  | 125 | 81  | 1 | 5 |
| 11456110960 | 3221912004352 | 9.6  | 9.6  | 133 | 87  | 1 | 5 |
| 11456110970 | 3221912004369 | 9.7  | 9.7  | 133 | 87  | 1 | 5 |
| 11456110980 | 3221912004376 | 9.8  | 9.8  | 133 | 87  | 1 | 5 |
| 11456110990 | 3221912004383 | 9.9  | 9.9  | 133 | 87  | 1 | 5 |
| 11456111000 | 3221912004390 | 10   | 10   | 133 | 87  | 1 | 5 |
| 11456111020 | 3221912004406 | 10.2 | 10.2 | 133 | 87  | 1 | 5 |
| 11456111050 | 3221912004413 | 10.5 | 10.5 | 133 | 87  | 1 | 5 |
| 11456111100 | 3221912004420 | 11   | 11   | 142 | 94  | 1 | 5 |
| 11456111150 | 3221912004437 | 11.5 | 11.5 | 142 | 94  | 1 | 5 |
| 11456111200 | 3221912004444 | 12   | 12   | 151 | 101 | 1 | 5 |
| 11456111250 | 3221912004451 | 12.5 | 12.5 | 151 | 101 | 1 | 5 |
| 11456111300 | 3221912004468 | 13   | 13   | 151 | 101 | 1 | 5 |
| 11456111400 | 3221912004475 | 14   | 12   | 160 | 108 | 1 | 1 |
| 11456111500 | 3221912004482 | 15   | 12   | 169 | 114 | 1 | 1 |
| 11456111600 | 3221912004499 | 16   | 12   | 178 | 120 | 1 | 1 |
| 11456111700 | 3221912004505 | 17   | 12   | 184 | 125 | 1 | 1 |
| 11456111800 | 3221912004512 | 18   | 12   | 191 | 130 | 1 | 1 |
| 11456111900 | 3221912004529 | 19   | 12   | 198 | 135 | 1 | 1 |
| 11456112000 | 3221912004536 | 20   | 12   | 205 | 140 | 1 | 1 |