

**9603051 | Multi-application machine tap HSS-E5 (cobalt 5%) -STEAM treatment -M MF -DIN 374/376 -C shape -6H -Dulofix shank -Rear conicity**

Tap for multiple applications. Its STEAM treatment avoids cold gluing and reduces the friction coefficient. Reinforced tail.



■ Especially for multiple applications

- Spiral flute
- 5% cobalt HSS
- STEAM treatment



**Machine**



**Application**

|  |  |                             |                                   |                            |
|--|--|-----------------------------|-----------------------------------|----------------------------|
| <b>K</b>                                       | <b>M<br/>1</b>                           | <b>P<br/>1</b>              | <b>P<br/>2</b>                    | <b>P<br/>3</b>             |
| K- Ferrous<br>Cast iron<br>with Short<br>Chips | M1-<br>austenitic<br>stainless<br>steels | P1-<br>Unrealized<br>steels | P2-<br>Weakly<br>allied<br>steels | P3- strong<br>alloy steels |

**Features**

|                 |           |                   |            |                   |                          |                        |  |              |
|-----------------|-----------|-------------------|------------|-------------------|--------------------------|------------------------|--|--------------|
| <b>M<br/>MF</b> | <b>6H</b> | <b>FORM<br/>C</b> | <b>35°</b> | <b>HSS<br/>E5</b> | <b>STEAM<br/>TREATED</b> | <b>DIN<br/>374/376</b> |  | <b>CYL+□</b> |
|-----------------|-----------|-------------------|------------|-------------------|--------------------------|------------------------|--|--------------|

**Properties and benefits**

- + Spiral flute : A flute shape that allows chips to be evacuated through the entrance to the hole. ➡ Allows better heat resistance due to better chip evacuation. For blind holes.
- + 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>.
- + STEAM treatment : Steam oxidation treatment. ➡ Avoids cold bonding. Reduced coefficient of friction in steels.



| Code            | EAN           | Thread | Ø    | Pitch   | Norm  | Drill | L   | I     | I4    | I5 | QTY | PCB |
|-----------------|---------------|--------|------|---------|-------|-------|-----|-------|-------|----|-----|-----|
| 960305100400070 | 8420609307393 | M 4    | 0,7  | DIN 376 | 3,30  | 63    | 7   | 2-2.5 | 3,40  | 1  | 1   |     |
| 960305100500080 | 8420609307423 | M 5    | 0,8  | DIN 376 | 4,20  | 70    | 8.5 | 2-2.5 | 4,90  | 1  | 1   |     |
| 960305100600100 | 8420609307454 | M 6    | 1    | DIN 376 | 5,00  | 80    | 9.5 | 2-2.5 | 4,90  | 1  | 1   |     |
| 960305100800125 | 8420609307508 | M 8    | 1,25 | DIN 376 | 6,75  | 90    | 12  | 2-2.5 | 6,20  | 1  | 1   |     |
| 960305101000150 | 8420609307560 | M 10   | 1,5  | DIN 376 | 8,50  | 100   | 14  | 2-2.5 | 5,50  | 1  | 1   |     |
| 960305101200175 | 8420609307638 | M 12   | 1,75 | DIN 376 | 10,25 | 110   | 16  | 2-2.5 | 7,00  | 1  | 1   |     |
| 960305101400200 | 8420609307690 | M 14   | 2    | DIN 376 | 12,00 | 110   | 18  | 2-2.5 | 9,00  | 1  | 1   |     |
| 960305101600200 | 8420609307768 | M 16   | 2    | DIN 376 | 14,00 | 110   | 18  | 2-2.5 | 9,00  | 1  | 1   |     |
| 960305101800250 | 8420609307812 | M 18   | 2,5  | DIN 376 | 15,50 | 125   | 25  | 2-2.5 | 11,00 | 1  | 1   |     |
| 960305102000250 | 8420609307850 | M 20   | 2,5  | DIN 376 | 17,50 | 140   | 25  | 2-2.5 | 12,00 | 1  | 1   |     |
| 960305102200250 | 8420609307898 | M 22   | 2,5  | DIN 376 | 19,50 | 140   | 25  | 2-2.5 | 14,50 | 1  | 1   |     |
| 960305102400300 | 8420609307935 | M 24   | 3    | DIN 376 | 21,00 | 160   | 30  | 2-2.5 | 14,50 | 1  | 1   |     |
| 960305102700300 | 8420609307997 | M 27   | 3    | DIN 376 | 24,00 | 160   | 30  | 2-2.5 | 16,00 | 1  | 1   |     |
| 960305103000350 | 8420609308048 | M 30   | 3,5  | DIN 376 | 26,50 | 180   | 35  | 2-2.5 | 18,00 | 1  | 1   |     |
| 960305103300350 | 8420609308093 | M 33   | 3,5  | DIN 376 | 26,50 | 180   | 40  | 2-2.5 | 20,00 | 1  | 1   |     |
| 960305103600400 | 8420609308147 | M 36   | 4    | DIN 376 | 32,00 | 200   | 45  | 2-2.5 | 22,00 | 1  | 1   |     |
| 960305100800100 | 8420609307492 | MF 8   | 1    | DIN 374 | 7,00  | 90    | 12  | 2-2.5 | 4,90  | 1  | 1   |     |
| 960305101000100 | 8420609307546 | MF 10  | 1    | DIN 374 | 9,00  | 90    | 12  | 2-2.5 | 5,50  | 1  | 1   |     |
| 960305101000125 | 8420609307553 | MF 10  | 1,25 | DIN 371 | 8,75  | 100   | 14  | 2-2.5 | 5,50  | 1  | 1   |     |

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|                 |               |    |    |      |         |       |     |    |       |       |   |   |
|-----------------|---------------|----|----|------|---------|-------|-----|----|-------|-------|---|---|
| 960305101200100 | 8420609307607 | MF | 12 | 1    | DIN 374 | 11,00 | 100 | 14 | 2-2.5 | 7,00  | 1 | 1 |
| 960305101200125 | 8420609307614 | MF | 12 | 1,25 | DIN 374 | 10,75 | 100 | 14 | 2-2.5 | 7,00  | 1 | 1 |
| 960305101200150 | 8420609307621 | MF | 12 | 1,5  | DIN 374 | 10,50 | 100 | 14 | 2-2.5 | 7,00  | 1 | 1 |
| 960305101400100 | 8420609307669 | MF | 14 | 1    | DIN 374 | 13,00 | 100 | 16 | 2-2.5 | 9,00  | 1 | 1 |
| 960305101400125 | 8420609307676 | MF | 14 | 1,25 | DIN 374 | 12,75 | 100 | 16 | 2-2.5 | 9,00  | 1 | 1 |
| 960305101400150 | 8420609307683 | MF | 14 | 1,5  | DIN 374 | 12,50 | 100 | 18 | 2-2.5 | 9,00  | 1 | 1 |
| 960305101600150 | 8420609307751 | MF | 16 | 1,5  | DIN 374 | 14,50 | 110 | 18 | 2-2.5 | 9,00  | 1 | 1 |
| 960305101800150 | 8420609307799 | MF | 18 | 1,5  | DIN 374 | 16,50 | 110 | 18 | 2-2.5 | 11,00 | 1 | 1 |
| 960305102000150 | 8420609307836 | MF | 20 | 1,5  | DIN 374 | 18,50 | 125 | 18 | 2-2.5 | 12,00 | 1 | 1 |
| 960305102200150 | 8420609307874 | MF | 22 | 1,5  | DIN 374 | 20,50 | 125 | 18 | 2-2.5 | 14,50 | 1 | 1 |
| 960305102400150 | 8420609307911 | MF | 24 | 1,5  | DIN 374 | 22,50 | 140 | 18 | 2-2.5 | 14,50 | 1 | 1 |
| 960305103000150 | 8420609308024 | MF | 30 | 1,5  | DIN 374 | 28,50 | 150 | 22 | 2-2.5 | 18,00 | 1 | 1 |
| 960305103000200 | 8420609308031 | MF | 30 | 2    | DIN 374 | 28,00 | 150 | 22 | 2-2.5 | 18,00 | 1 | 1 |