

## SMART STEP EU+ HSS DIN 1869 R2 twist drill bit

### Extra-long design with unequally stepped drill bit tip geometry

#### Advantages of the SMART STEP drill bit tip geometry with extremely uneven pitch (EU+)

- Up to 50 % longer service life
- Significantly more comfortable drilling with less vibration, even less effort required and perfect tool guidance (up to 60 % less torque)
- Up to 20 % lower energy consumption
- Up to 15 % faster drilling progress

#### Precise, circular drilling in a wide range of materials including wood, plastic and acrylic

- Very precise drilling without tearing or splintering the material

#### Very comfortable drilling

- Eliminates pre-drilling despite the extra-long design, precise spot drilling
- Prevents the tool from running off-centre even during particularly deep drilling
- Simple drilling or enlarging of an existing drill hole
- No rattling or catching, even in thin-walled materials
- Burr-free hole exit

#### Very fast drilling

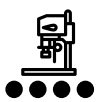
- Significantly faster and with less effort required compared to extra-long HSS twist drill bits with conventional tip geometry

#### 3-flat shank

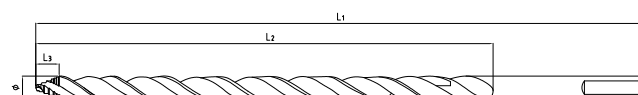
- No spinning in the drill chuck: Faster, more comfortable working
- Optimal power transmission
- Protects the drill chuck from damage
- Little effort required to loosen and tighten the drill chuck

#### Available exclusively from WÜRTH

#### Product packaging made from 100 % PCR (recycled plastic from household waste) and 100 % recyclable



|                                     |                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|
| Suitable for machine type           | Drill, Cordless screwdrivers, Pedestal drilling machine                                                  |
| Material to be processed            | Steel, Cast iron, Non-ferrous metal, Wood, Hardwood                                                      |
| Quality                             | ZEBRA-Premium                                                                                            |
| Standard/drilling depth             | DIN 1869/25xD                                                                                            |
| Design                              | Overlong                                                                                                 |
| Shank style                         | 3-face shank                                                                                             |
| Surface                             | Multiple refined                                                                                         |
| Cutting material                    | HSS                                                                                                      |
| Service life                        | ●●●○                                                                                                     |
| Drilling speed (point system)       | ●●●●                                                                                                     |
| Bore hole quality (point system)    | ●●●●                                                                                                     |
| Versatility                         | ●●●○                                                                                                     |
| Drilling behaviour (point system)   | ●●●●                                                                                                     |
| Self-centring                       | Yes                                                                                                      |
| Suitable for tensile strength up to | 1000 N/mm <sup>2</sup>                                                                                   |
| Color Coding System                 | <div> <div>Aluminium\Non-Ferrous Metal</div> <div>Steel</div> <div>Wood</div> <div>Hardwood</div> </div> |



| Diameter (Ø) | Length (l1) | Chip flute length (l2) | Drill tip length (l3) | Shank diameter | Art. no.            | P. Qty. |
|--------------|-------------|------------------------|-----------------------|----------------|---------------------|---------|
| 3 mm         | 190 mm      | 130 mm                 | 1.8 mm                | 3 mm           | <b>0624 960 300</b> | 3       |
| 3.3 mm       | 200 mm      | 135 mm                 | 2.1 mm                | 3.3 mm         | <b>0624 960 330</b> | 3       |
| 3.5 mm       | 210 mm      | 145 mm                 | 2.2 mm                | 3.5 mm         | <b>0624 960 350</b> | 3       |
| 4 mm         | 220 mm      | 150 mm                 | 2.9 mm                | 4 mm           | <b>0624 960 400</b> | 3       |
| 4.2 mm       | 220 mm      | 150 mm                 | 2.9 mm                | 4.2 mm         | <b>0624 960 420</b> | 3       |
| 4.5 mm       | 235 mm      | 160 mm                 | 3.1 mm                | 4.5 mm         | <b>0624 960 450</b> | 3       |
| 4.8 mm       | 245 mm      | 170 mm                 | 3.3 mm                | 4.8 mm         | <b>0624 960 480</b> | 3       |
| 4.9 mm       | 245 mm      | 170 mm                 | 3.4 mm                | 4.9 mm         | <b>0624 960 490</b> | 3       |
| 5 mm         | 245 mm      | 170 mm                 | 3.4 mm                | 5 mm           | <b>0624 960 500</b> | 3       |
| 5.5 mm       | 260 mm      | 180 mm                 | 3.8 mm                | 5.5 mm         | <b>0624 960 550</b> | 3       |
| 5.8 mm       | 260 mm      | 180 mm                 | 4.7 mm                | 5.8 mm         | <b>0624 960 580</b> | 3       |
| 6 mm         | 260 mm      | 180 mm                 | 4.9 mm                | 6 mm           | <b>0624 960 600</b> | 3       |
| 6.2 mm       | 275 mm      | 190 mm                 | 5.4 mm                | 6.2 mm         | <b>0624 960 620</b> | 3       |
| 6.3 mm       | 275 mm      | 190 mm                 | 5.5 mm                | 6.3 mm         | <b>0624 960 630</b> | 3       |
| 6.5 mm       | 275 mm      | 190 mm                 | 5.6 mm                | 6.5 mm         | <b>0624 960 650</b> | 3       |
| 6.7 mm       | 275 mm      | 190 mm                 | 5.7 mm                | 6.7 mm         | <b>0624 960 670</b> | 3       |
| 6.8 mm       | 290 mm      | 200 mm                 | 5.7 mm                | 6.8 mm         | <b>0624 960 680</b> | 3       |
| 6.9 mm       | 290 mm      | 200 mm                 | 5.8 mm                | 6.9 mm         | <b>0624 960 690</b> | 3       |
| 7 mm         | 290 mm      | 200 mm                 | 6.1 mm                | 7 mm           | <b>0624 960 700</b> | 3       |
| 7.5 mm       | 290 mm      | 200 mm                 | 7.7 mm                | 7.5 mm         | <b>0624 960 750</b> | 3       |
| 8 mm         | 305 mm      | 210 mm                 | 7.9 mm                | 8 mm           | <b>0624 960 800</b> | 3       |
| 8.5 mm       | 305 mm      | 210 mm                 | 8.8 mm                | 8.5 mm         | <b>0624 960 850</b> | 3       |
| 9 mm         | 320 mm      | 220 mm                 | 9 mm                  | 9 mm           | <b>0624 960 900</b> | 3       |
| 9.5 mm       | 320 mm      | 220 mm                 | 10.2 mm               | 9.5 mm         | <b>0624 960 950</b> | 3       |
| 10 mm        | 340 mm      | 235 mm                 | 11.4 mm               | 10 mm          | <b>0624 961 000</b> | 3       |
| 10.2 mm      | 340 mm      | 235 mm                 | 11.7 mm               | 10.2 mm        | <b>0624 961 020</b> | 3       |
| 10.5 mm      | 340 mm      | 235 mm                 | 12 mm                 | 10.5 mm        | <b>0624 961 050</b> | 1       |
| 11 mm        | 365 mm      | 250 mm                 | 12.3 mm               | 11 mm          | <b>0624 961 100</b> | 1       |
| 11.5 mm      | 365 mm      | 250 mm                 | 13.4 mm               | 11.5 mm        | <b>0624 961 150</b> | 1       |
| 12 mm        | 375 mm      | 260 mm                 | 14.4 mm               | 12 mm          | <b>0624 961 200</b> | 1       |
| 12.5 mm      | 375 mm      | 260 mm                 | 14.9 mm               | 12.5 mm        | <b>0624 961 250</b> | 1       |

| Diameter (Ø) | Length (l1) | Chip flute length (l2) | Drill tip length (l3) | Shank diameter | Art. no.            | P. Qty. |
|--------------|-------------|------------------------|-----------------------|----------------|---------------------|---------|
| 13 mm        | 375 mm      | 260 mm                 | 14.9 mm               | 12.7 mm        | <b>0624 961 300</b> | 1       |

### Cutting values for SMART STEP EU+ HSS DIN 1869 R2 twist drill bit

| For dia. 2.5-4.0                    |                           |                |    |               |      |       |                |      |       |               |      |       |
|-------------------------------------|---------------------------|----------------|----|---------------|------|-------|----------------|------|-------|---------------|------|-------|
| Material designation                | Tensile strength          |                |    | from dia. 2.5 |      |       | from dia. 3.15 |      |       | from dia. 4.0 |      |       |
|                                     |                           | v <sub>c</sub> |    | n             |      | f     | n              |      | f     | n             |      | f     |
|                                     |                           | from           | to | from          | to   |       | from           | to   |       | from          | to   |       |
| General structural steels           | ≤ 850 N/mm <sup>2</sup>   | 18             | 27 | 2292          | 3439 | 0,015 | 1819           | 2729 | 0,017 | 1433          | 2149 | 0,02  |
| Unalloyed hardened steels           | ≤ 850 N/mm <sup>2</sup>   | 18             | 27 | 2292          | 3439 | 0,015 | 1819           | 2729 | 0,017 | 1433          | 2149 | 0,02  |
| Low-alloy hardened steels           | ≤ 850 N/mm <sup>2</sup>   | 18             | 27 | 2292          | 3439 | 0,015 | 1819           | 2729 | 0,017 | 1433          | 2149 | 0,02  |
| Unalloyed hardened steels           | ≤ 1,000 N/mm <sup>2</sup> | 15             | 23 | 1910          | 2929 | 0,012 | 1516           | 2325 | 0,015 | 1194          | 1831 | 0,018 |
| Low-alloy hardened steels           | ≤ 1,000 N/mm <sup>2</sup> | 15             | 23 | 1910          | 2929 | 0,012 | 1516           | 2325 | 0,015 | 1194          | 1831 | 0,018 |
| Alloyed hardened steels             | ≤ 1,200 N/mm <sup>2</sup> | 10             | 15 | 1273          | 1910 | 0,012 | 1011           | 1516 | 0,015 | 796           | 1194 | 0,018 |
| Nitriding steels                    | ≤ 1,200 N/mm <sup>2</sup> | 10             | 15 | 1273          | 1910 | 0,012 | 1011           | 1516 | 0,015 | 796           | 1194 | 0,018 |
| Tool steels                         | ≤ 1,200 N/mm <sup>2</sup> | 10             | 15 | 1273          | 1910 | 0,012 | 1011           | 1516 | 0,015 | 796           | 1194 | 0,018 |
| High-speed steels                   | ≤ 1,200 N/mm <sup>2</sup> | 10             | 15 | 1273          | 1910 | 0,012 | 1011           | 1516 | 0,015 | 796           | 1194 | 0,018 |
| Cast iron                           | ≤ 350 HB                  | 15             | 23 | 1910          | 2929 | 0,012 | 1516           | 2325 | 0,015 | 1194          | 1831 | 0,018 |
| Nodular graphite and malleable iron | ≤ 350 HB                  | 15             | 23 | 1910          | 2929 | 0,012 | 1516           | 2325 | 0,015 | 1194          | 1831 | 0,018 |
| Aluminium                           | ≤ 600 N/mm <sup>2</sup>   | 35             | 45 | 4458          | 5732 | 0,015 | 3538           | 4549 | 0,016 | 2786          | 3582 | 0,02  |
| Thermosetting plastics              |                           | 15             | 23 | 1910          | 2929 | 0,015 | 1516           | 2325 | 0,016 | 1194          | 1831 | 0,02  |
| Thermoplastic plastics              |                           | 15             | 23 | 1910          | 2929 | 0,015 | 1516           | 2325 | 0,016 | 1194          | 1831 | 0,02  |
| Soft and light wood                 |                           | 21             | 30 | 2675          | 3821 | 0,017 | 2123           | 3033 | 0,018 | 1672          | 2388 | 0,023 |
| Compact and hard wood               |                           | 18             | 27 | 2292          | 3439 | 0,015 | 1819           | 2729 | 0,018 | 1433          | 2149 | 0,022 |

| For dia. 5.0-6.3                    |                           |                |    |               |      |       |               |      |       |  |
|-------------------------------------|---------------------------|----------------|----|---------------|------|-------|---------------|------|-------|--|
| Material designation                | Tensile strength          |                |    | from dia. 5.0 |      |       | from dia. 6.3 |      |       |  |
|                                     |                           | v <sub>c</sub> |    | n             |      | f     | n             |      | f     |  |
|                                     |                           | from           | to | from          | to   |       | from          | to   |       |  |
| General structural steels           | ≤ 850 N/mm <sup>2</sup>   | 18             | 27 | 1146          | 1719 | 0,025 | 909           | 1364 | 0,027 |  |
| Unalloyed hardened steels           | ≤ 850 N/mm <sup>2</sup>   | 18             | 27 | 1146          | 1719 | 0,025 | 909           | 1364 | 0,027 |  |
| Low-alloy hardened steels           | ≤ 850 N/mm <sup>2</sup>   | 18             | 27 | 1146          | 1719 | 0,025 | 909           | 1364 | 0,027 |  |
| Unalloyed hardened steels           | ≤ 1,000 N/mm <sup>2</sup> | 15             | 23 | 955           | 1464 | 0,021 | 758           | 1162 | 0,025 |  |
| Low-alloy hardened steels           | ≤ 1,000 N/mm <sup>2</sup> | 15             | 23 | 955           | 1464 | 0,021 | 758           | 1162 | 0,025 |  |
| Alloyed hardened steels             | ≤ 1,200 N/mm <sup>2</sup> | 10             | 15 | 636           | 955  | 0,021 | 505           | 758  | 0,025 |  |
| Nitriding steels                    | ≤ 1,200 N/mm <sup>2</sup> | 10             | 15 | 636           | 955  | 0,021 | 505           | 758  | 0,025 |  |
| Tool steels                         | ≤ 1,200 N/mm <sup>2</sup> | 10             | 15 | 636           | 955  | 0,021 | 505           | 758  | 0,025 |  |
| High-speed steels                   | ≤ 1,200 N/mm <sup>2</sup> | 10             | 15 | 636           | 955  | 0,021 | 505           | 758  | 0,025 |  |
| Cast iron                           | ≤ 350 HB                  | 15             | 23 | 955           | 1464 | 0,021 | 758           | 1162 | 0,025 |  |
| Nodular graphite and malleable iron | ≤ 350 HB                  | 15             | 23 | 955           | 1464 | 0,021 | 758           | 1162 | 0,025 |  |
| Aluminium                           | ≤ 600 N/mm <sup>2</sup>   | 35             | 45 | 2229          | 2866 | 0,025 | 1769          | 2274 | 0,027 |  |
| Thermosetting plastics              |                           | 15             | 23 | 955           | 1464 | 0,025 | 758           | 1162 | 0,027 |  |
| Thermoplastic plastics              |                           | 15             | 23 | 955           | 1464 | 0,025 | 758           | 1162 | 0,027 |  |
| Soft and light wood                 |                           | 21             | 30 | 1338          | 1910 | 0,028 | 1061          | 1516 | 0,03  |  |
| Compact and hard wood               |                           | 18             | 27 | 1146          | 1719 | 0,027 | 909           | 1364 | 0,03  |  |

| For dia. 8.0-10.0         |                         |                |    |               |      |      |                |      |       |     |      |       |
|---------------------------|-------------------------|----------------|----|---------------|------|------|----------------|------|-------|-----|------|-------|
| Material designation      | Tensile strength        |                |    | from dia. 8.0 |      |      | from dia. 10.0 |      |       |     |      |       |
|                           |                         | v <sub>c</sub> |    | n             |      | f    | ≤ 6            |      | > 6   |     |      |       |
|                           |                         | from           | to | from          | to   |      | from           | to   | n     | f   | from | to    |
| General structural steels | ≤ 850 N/mm <sup>2</sup> | 18             | 27 | 716           | 1074 | 0,03 | 955            | 1433 | 0,027 | 573 | 859  | 0,035 |
| Unalloyed hardened steels | ≤ 850 N/mm <sup>2</sup> | 18             | 27 | 716           | 1074 | 0,03 | 955            | 1433 | 0,027 | 573 | 859  | 0,035 |

**For dia. 8.0-10.0**

|                                     |                           |    |    |      |      |       |      |      |       |      |      |       |
|-------------------------------------|---------------------------|----|----|------|------|-------|------|------|-------|------|------|-------|
| Low-alloy hardened steels           | ≤ 850 N/mm <sup>2</sup>   | 18 | 27 | 716  | 1074 | 0,03  | 955  | 1433 | 0,027 | 573  | 859  | 0,035 |
| Unalloyed hardened steels           | ≤ 1,000 N/mm <sup>2</sup> | 15 | 23 | 597  | 915  | 0,028 | 796  | 1220 | 0,025 | 477  | 732  | 0,031 |
| Low-alloy hardened steels           | ≤ 1,000 N/mm <sup>2</sup> | 15 | 23 | 597  | 915  | 0,028 | 796  | 1220 | 0,025 | 477  | 732  | 0,031 |
| Alloyed hardened steels             | ≤ 1,200 N/mm <sup>2</sup> | 10 | 15 | 398  | 597  | 0,028 | 530  | 796  | 0,025 | 318  | 477  | 0,031 |
| Nitriding steels                    | ≤ 1,200 N/mm <sup>2</sup> | 10 | 15 | 398  | 597  | 0,028 | 530  | 796  | 0,025 | 318  | 477  | 0,031 |
| Tool steels                         | ≤ 1,200 N/mm <sup>2</sup> | 10 | 15 | 398  | 597  | 0,028 | 530  | 796  | 0,025 | 318  | 477  | 0,031 |
| High-speed steels                   | ≤ 1,200 N/mm <sup>2</sup> | 10 | 15 | 398  | 597  | 0,028 | 530  | 796  | 0,025 | 318  | 477  | 0,031 |
| Cast iron                           | ≤ 350 HB                  | 15 | 23 | 597  | 915  | 0,028 | 796  | 1220 | 0,025 | 477  | 732  | 0,031 |
| Nodular graphite and malleable iron | ≤ 350 HB                  | 15 | 23 | 597  | 915  | 0,028 | 796  | 1220 | 0,025 | 477  | 732  | 0,031 |
| Aluminium                           | ≤ 600 N/mm <sup>2</sup>   | 35 | 45 | 1393 | 1791 | 0,03  | 1857 | 2388 | 0,027 | 1114 | 1433 | 0,035 |
| Thermosetting plastics              |                           | 15 | 23 | 597  | 915  | 0,03  | 796  | 1220 | 0,027 | 477  | 732  | 0,035 |
| Thermoplastic plastics              |                           | 15 | 23 | 597  | 915  | 0,03  | 796  | 1220 | 0,027 | 477  | 732  | 0,035 |
| Soft and light wood                 |                           | 21 | 30 | 836  | 1194 | 0,033 | 1114 | 1592 | 0,03  | 668  | 955  | 0,038 |
| Compact and hard wood               |                           | 18 | 27 | 716  | 1074 | 0,032 | 955  | 1433 | 0,03  | 573  | 859  | 0,036 |

**For dia. 12.5-16.0**

| Material designation                |                           | Tensile strength |    | from dia. 12.5 |      |       |     |      |       |       |      | from dia. 16.0 |     |     |       |     |   |
|-------------------------------------|---------------------------|------------------|----|----------------|------|-------|-----|------|-------|-------|------|----------------|-----|-----|-------|-----|---|
|                                     |                           |                  |    | ≤ 6.5          |      |       |     |      |       | > 6.5 |      | ≤ 8            |     |     |       | > 8 |   |
|                                     |                           |                  |    | v <sub>c</sub> |      | n     |     | f    | n     |       | f    | n              |     | f   | n     |     | f |
|                                     |                           |                  |    | from           | to   | from  | to  |      | from  | to    |      | from           | to  |     | from  | to  |   |
| General structural steels           | ≤ 850 N/mm <sup>2</sup>   | 18               | 27 | 881            | 1322 | 0,027 | 458 | 687  | 0,038 | 716   | 1074 | 0,03           | 358 | 537 | 0,04  |     |   |
| Unalloyed hardened steels           | ≤ 850 N/mm <sup>2</sup>   | 18               | 27 | 881            | 1322 | 0,027 | 458 | 687  | 0,038 | 716   | 1074 | 0,03           | 358 | 537 | 0,04  |     |   |
| Low-alloy hardened steels           | ≤ 850 N/mm <sup>2</sup>   | 18               | 27 | 881            | 1322 | 0,027 | 458 | 687  | 0,038 | 716   | 1074 | 0,03           | 358 | 537 | 0,04  |     |   |
| Unalloyed hardened steels           | ≤ 1,000 N/mm <sup>2</sup> | 15               | 23 | 734            | 1126 | 0,025 | 382 | 585  | 0,035 | 597   | 915  | 0,028          | 298 | 457 | 0,038 |     |   |
| Low-alloy hardened steels           | ≤ 1,000 N/mm <sup>2</sup> | 15               | 23 | 734            | 1126 | 0,025 | 382 | 585  | 0,035 | 597   | 915  | 0,028          | 298 | 457 | 0,038 |     |   |
| Alloyed hardened steels             | ≤ 1,200 N/mm <sup>2</sup> | 10               | 15 | 489            | 734  | 0,025 | 254 | 382  | 0,035 | 398   | 597  | 0,028          | 199 | 298 | 0,038 |     |   |
| Nitriding steels                    | ≤ 1,200 N/mm <sup>2</sup> | 10               | 15 | 489            | 734  | 0,025 | 254 | 382  | 0,035 | 398   | 597  | 0,028          | 199 | 298 | 0,038 |     |   |
| Tool steels                         | ≤ 1,200 N/mm <sup>2</sup> | 10               | 15 | 489            | 734  | 0,025 | 254 | 382  | 0,035 | 398   | 597  | 0,028          | 199 | 298 | 0,038 |     |   |
| High-speed steels                   | ≤ 1,200 N/mm <sup>2</sup> | 10               | 15 | 489            | 734  | 0,025 | 254 | 382  | 0,035 | 398   | 597  | 0,028          | 199 | 298 | 0,038 |     |   |
| Cast iron                           | ≤ 350 HB                  | 15               | 23 | 734            | 1126 | 0,025 | 382 | 585  | 0,035 | 597   | 915  | 0,028          | 298 | 457 | 0,038 |     |   |
| Nodular graphite and malleable iron | ≤ 350 HB                  | 15               | 23 | 734            | 1126 | 0,025 | 382 | 585  | 0,035 | 597   | 915  | 0,028          | 298 | 457 | 0,038 |     |   |
| Aluminium                           | ≤ 600 N/mm <sup>2</sup>   | 35               | 45 | 1714           | 2204 | 0,027 | 891 | 1146 | 0,038 | 1393  | 1791 | 0,03           | 696 | 895 | 0,04  |     |   |
| Thermosetting plastics              |                           | 15               | 23 | 734            | 1126 | 0,027 | 382 | 585  | 0,038 | 597   | 915  | 0,03           | 298 | 457 | 0,04  |     |   |
| Thermoplastic plastics              |                           | 15               | 23 | 734            | 1126 | 0,027 | 382 | 585  | 0,038 | 597   | 915  | 0,03           | 298 | 457 | 0,04  |     |   |
| Soft and light wood                 |                           | 21               | 30 | 1028           | 1469 | 0,03  | 535 | 764  | 0,041 | 836   | 1194 | 0,033          | 418 | 597 | 0,044 |     |   |
| Compact and hard wood               |                           | 18               | 27 | 881            | 1322 | 0,03  | 458 | 687  | 0,038 | 716   | 1074 | 0,032          | 358 | 537 | 0,041 |     |   |

**Key**

v<sub>c</sub> = cutting speed [m/min]

f = feed [mm/r]

n = rotation speed [rpm]



The suggested cutting values are reference values and must be adapted to the respective conditions.

**Details/Application**

- Ideal for use in cordless drivers as well as on hand-held, box column and pillar drills
- For use in steel up to 1,000 N/mm<sup>2</sup>, cast iron, aluminium, copper, brass, bronze, hard and soft wood, plastic (e.g. acrylic glass, HPL, screen printing plates) and composite materials (e.g. plastic profiles with steel core)
- High quality of drill holes and significantly longer service life compared to conventional wood twist drill bits.
- Can be used universally on smooth as well as rounded and uneven surfaces



## Instructions

To achieve optimum drilling progress and avoid jamming, frequent "ventilation" of the drill bit is required for large drilling depths.

## Notice

- For blind holes, please be aware of the extended drill tip (see dimension l3)!
- The innovative tip geometry drills step by step to achieve the required diameter. During the drilling process, the chip is broken into small individual chips by several main cutting edges, thus ensuring optimal chip evacuation. The result is highly precise, circular drill holes.
- The simultaneous use of several cutting edges ensures very fast, comfortable working and a long service life

| Related products                                                                                       | Art. no.            |
|--------------------------------------------------------------------------------------------------------|---------------------|
| ABS 18 SUBCOMPACT M-CUBE cordless drill driver Number of rechargeable batteries/batteries 2 PCS x 2 Ah | <b>5701 426 002</b> |
| CUT+COOL drilling and cutting oil Aerosol can 400 ml                                                   | <b>0893 050 004</b> |
| CUT+COOL Perfect drilling and cutting oil Aerosol can 400 ml                                           | <b>0893 050 008</b> |
| Cut and Cool Perfect drilling/cutting paste 500 ml                                                     | <b>0893 050 010</b> |