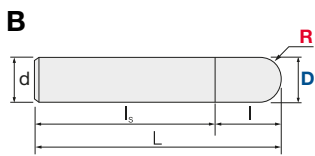
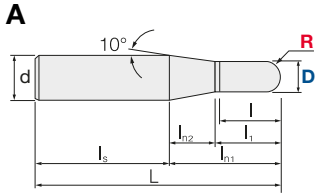
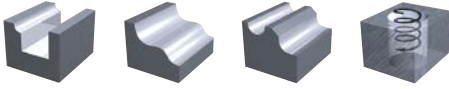




**EPBT** | Epoch Ball TH-Coating

|                            |                      |                             |                         |                  |                          |
|----------------------------|----------------------|-----------------------------|-------------------------|------------------|--------------------------|
| <b>V max</b><br>High Speed | <b>▽</b><br>Roughing | <b>▽▽</b><br>Semi-Finishing | <b>▽▽▽</b><br>Finishing | <b>HRC</b><br>69 | <b>No. of Teeth</b><br>2 |
|----------------------------|----------------------|-----------------------------|-------------------------|------------------|--------------------------|



|                               |                                  |                               |
|-------------------------------|----------------------------------|-------------------------------|
| <b>Carbide</b><br>Micro Grain | <b>TH45+</b><br>Nano-PVD Coating | <b>Rake Angle</b><br>Positive |
|-------------------------------|----------------------------------|-------------------------------|



|             |                 |           |
|-------------|-----------------|-----------|
| Helix Angle | R Tol. [mm]     | d Tol.    |
| <b>30°</b>  | <b>+/-0.005</b> | <b>h5</b> |

| ID Code | Item No.         | Z | D  | R   | l   | l <sub>1</sub> | l <sub>n1</sub> | l <sub>n2</sub> | L   | L <sub>s</sub> | d  | Type |      |   |
|---------|------------------|---|----|-----|-----|----------------|-----------------|-----------------|-----|----------------|----|------|------|---|
| EP 255  | <b>EPBT-2010</b> | 2 | 1  | 0.5 | 1.5 | 2.5            | 11              | 8.5             | 50  | 39             | 4  | A    |      |   |
| EP 256  | <b>EPBT-2020</b> |   | 2  | 1   | 3   | 4              | 15.3            | 11.3            |     | 34.7           |    |      |      |   |
| EP 257  | <b>EPBT-2030</b> |   | 3  | 1.5 | 4.5 | 5.5            | 14              | 8.5             |     | 56             |    |      |      |   |
| EP 258  | <b>EPBT-2040</b> |   | 4  | 2   | 6   | 7              | 12.7            | 5.7             |     |                |    |      | 57.3 |   |
| EP 259  | <b>EPBT-2050</b> |   | 5  | 2.5 | 7.5 | 8.5            | 11.3            | 2.8             | 80  | 68.7           | 6  | A    |      |   |
| EP 260  | <b>EPBT-2060</b> |   | 6  | 3   | 9   | -              | -               | -               | 90  | 81             |    |      |      |   |
| EP 261  | <b>EPBT-2080</b> |   | 8  | 4   | 12  | -              | -               | -               | 100 | 88             |    |      | 8    | B |
| EP 262  | <b>EPBT-2100</b> |   | 10 | 5   | 15  | -              | -               | -               |     | 85             |    |      |      |   |
| EP 263  | <b>EPBT-2120</b> |   | 12 | 6   | 18  | -              | -               | -               | 110 | 92             | 12 | B    |      |   |

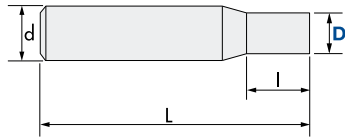


**EPHT** | Epoch Hard TH-Coating

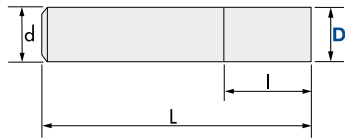
|                            |                             |                         |                  |                          |                          |
|----------------------------|-----------------------------|-------------------------|------------------|--------------------------|--------------------------|
| <b>V max</b><br>High Speed | <b>▽▽</b><br>Semi-Finishing | <b>▽▽▽</b><br>Finishing | <b>HRC</b><br>69 | <b>No. of Teeth</b><br>4 | <b>No. of Teeth</b><br>6 |
|----------------------------|-----------------------------|-------------------------|------------------|--------------------------|--------------------------|



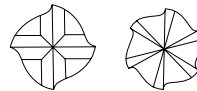
**A**



**B**



|                               |                                  |                               |
|-------------------------------|----------------------------------|-------------------------------|
| <b>Carbide</b><br>Micro Grain | <b>TH45+</b><br>Nano-PVD Coating | <b>Rake Angle</b><br>Negative |
|-------------------------------|----------------------------------|-------------------------------|



|             |  |           |
|-------------|--|-----------|
| Helix Angle | D Tol. [mm]                                      | d Tol.    |
| <b>46°</b>  | <b>D1-D6: 0/-0.015</b><br><b>D8-D20: 0/-0.02</b> | <b>h6</b> |

| ID Code | Item No.         | Z | D          | l   | L  | L <sub>s</sub> | d | Type |
|---------|------------------|---|------------|-----|----|----------------|---|------|
| EP 244  | <b>EPHT-4010</b> | 4 | <b>1</b>   | 3.5 | 60 | 56.5           | 6 | A    |
| EP 264  | <b>EPHT-4015</b> |   | <b>1.5</b> | 5   |    | 55             |   |      |
| EP 245  | <b>EPHT-4020</b> |   | <b>2</b>   | 7   |    | 53             |   |      |
| EP 265  | <b>EPHT-4025</b> |   | <b>2.5</b> | 8   |    | 52             |   |      |
| EP 246  | <b>EPHT-4030</b> |   | <b>3</b>   | 10  |    | 50             |   |      |
| EP 247  | <b>EPHT-4040</b> |   | <b>4</b>   | 12  |    | 48             |   |      |
| EP 248  | <b>EPHT-4050</b> |   | <b>5</b>   | 15  |    | 45             |   |      |
| EP 249  | <b>EPHT-6060</b> | 6 | <b>6</b>   | 15  | 75 | 45             | 8 | B    |
| EP 250  | <b>EPHT-6080</b> |   | <b>8</b>   | 20  |    | 55             |   |      |
| EP 251  | <b>EPHT-6100</b> |   | <b>10</b>  | 25  |    | 55             |   |      |
| EP 252  | <b>EPHT-6120</b> |   | <b>12</b>  | 30  |    | 70             |   |      |
| EP 253  | <b>EPHT-6160</b> |   | <b>16</b>  | 40  |    | 70             |   |      |
| EP 254  | <b>EPHT-6200</b> |   | <b>20</b>  | 45  |    | 80             |   |      |

| Cutting Conditions   Schnittwerte   Condizioni di taglio   Condiciones de Corte   Conditions de coupe   Valores de corte: |              |          |              |             |           |          |              |
|---|--------------|----------|--------------|-------------|-----------|----------|--------------|
|   |              | D        | Page   Seite |             |           | D        | Page   Seite |
| <b>EPHT</b>   | Side Milling | D1 – D20 | 5            |             |           |          |              |
| <b>EPBT</b>   | Roughing     | D1 – D20 | 6            | <b>EPBT</b> | Finishing | D1 – D12 | 7            |