

# long / extra long ball nose - TiAlN multi coated

Schafffräser - lang / extra lang - kugelspitze - TiAlN multi-Beschichtung

fraise en bout - longue / extra longue - bout arrondi - TiAlN multi-revêtement

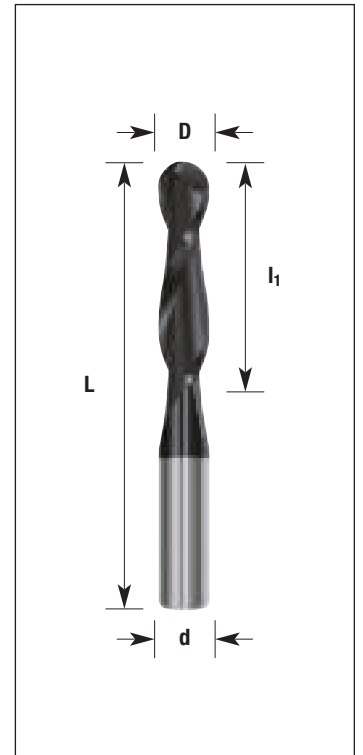
fresas frontales - serie larga / serie extra larga - perfil redondo - TiAlN multi-recubrimiento

frese lunghe / extra lunghe - sferiche - rivestimento TiAlN

**126-E**

**Z=2**

		<b>tol: D</b> 1 - 7mm +0.000/-0.051mm > 7 - 25mm +0.000/-0.076mm 1/16" - 1/4" +0.000"/-0.002" > 1/4" - 1" +0.000"/-0.003"	<b>tol: d</b> 1 - 25mm h6 1/32" - 1" +0.000"/-0.0005"								
<b>Micro Grain K10/K30</b>	<table border="0"> <tr> <td>1.1 - 1.3</td> <td>3.1 - 3.4</td> </tr> <tr> <td>1.4 - 1.6</td> <td>4.1 - 5.3</td> </tr> <tr> <td>1.7 - 1.8</td> <td>6.1 - 6.4</td> </tr> <tr> <td>2.1 - 2.3</td> <td>9.1</td> </tr> </table>	1.1 - 1.3	3.1 - 3.4	1.4 - 1.6	4.1 - 5.3	1.7 - 1.8	6.1 - 6.4	2.1 - 2.3	9.1		
1.1 - 1.3	3.1 - 3.4										
1.4 - 1.6	4.1 - 5.3										
1.7 - 1.8	6.1 - 6.4										
2.1 - 2.3	9.1										
<b>DFZ (TiAlN)</b>											



D mm	d mm	L mm	l <sub>1</sub> mm	Part Nr
3	3	65	25	12611810E
4	4	65	25	12615750E
5	5	75	25	12619680E
6	6	75	25	12623620E
8	8	75	25	12631500E
10	10	100	38	12639370E
12	12	100	75	12647240E
16	16	150	75	12662990E

D ins	d ins	L ins	l <sub>1</sub> ins	Part Nr
1/4	1/4	3	1 1/8	12625000E
5/16	5/16	3	1 1/8	12631250E
3/8	3/8	4	1 3/4	12637500E
7/16	7/16	4 1/2	2	12643750E
1/2	1/2	4 1/2	2	12650000E
5/8	5/8	5	2 1/4	12662500E
3/4	3/4	5	2 1/4	12675000E

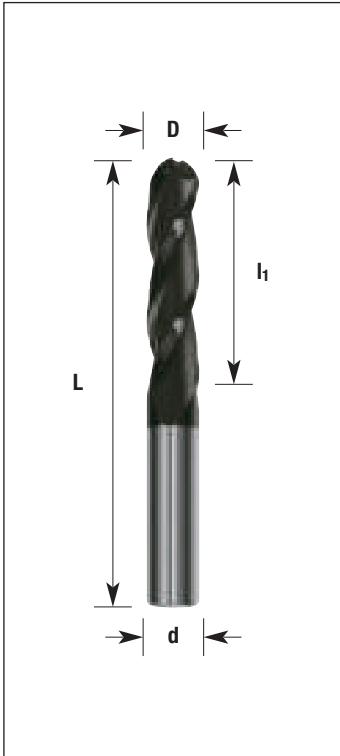
# long / extra long ball nose - TiAlN multi coated

Schafffräser - lang / extra lang - kugelspitze - TiAlN multi-Beschichtung

fraise en bout - longue / extra longue - bout arrondi - TiAlN multi-revêtement





fresas frontales - serie larga / serie extra larga - perfil redondo - TiAlN multi-recubrimiento

frese lunghe / extra lunghe - sferiche - rivestimento TiAlN



**127-E**

**Z=3**

		<b>tol: D</b> 1 - 7mm +0.000/-0.051mm > 7 - 25mm +0.000/-0.076mm 1/16" - 1/4" +0.000"/-0.002" > 1/4" - 1" +0.000"/-0.003"	<b>tol: d</b>  <b>h6</b>								
<b>Micro Grain K10/K30</b>	<table border="0"> <tr> <td>1.1 - 1.3</td> <td>3.1 - 3.4</td> </tr> <tr> <td>1.4 - 1.6</td> <td>4.1 - 5.3</td> </tr> <tr> <td>1.7 - 1.8</td> <td>6.1 - 6.4</td> </tr> <tr> <td>2.1 - 2.3</td> <td>9.1</td> </tr> </table>	1.1 - 1.3	3.1 - 3.4	1.4 - 1.6	4.1 - 5.3	1.7 - 1.8	6.1 - 6.4	2.1 - 2.3	9.1		
1.1 - 1.3	3.1 - 3.4										
1.4 - 1.6	4.1 - 5.3										
1.7 - 1.8	6.1 - 6.4										
2.1 - 2.3	9.1										
<b>DFZ (TiAlN)</b>											

D mm	d mm	L mm	h <sub>1</sub> mm	Part Nr
3	3	65	25	12711810E
4	4	65	25	12715750E
5	5	75	25	12719680E
6	6	75	25	12723620E
8	8	75	25	12731500E
10	10	100	38	12739370E
12	12	100	50	12747240E
16	16	150	75	12762990E

D ins	d ins	L ins	h <sub>1</sub> ins	Part Nr
1/4	1/4	3	1 1/8	12725000E
5/16	5/16	3	1 1/8	12731250E
3/8	3/8	4	1 3/4	12737500E
7/16	7/16	4 1/2	2	12743750E
1/2	1/2	4 1/2	2	12750000E
5/8	5/8	5	2 1/4	12762500E
3/4	3/4	5	2 1/4	12775000E

# long / extra long ball nose - TiAlN multi coated

Schafffräser - lang / extra lang - kugelspitze - TiAlN multi-Beschichtung

fraise en bout - longue / extra longue - bout arrondi - TiAlN multi-revêtement

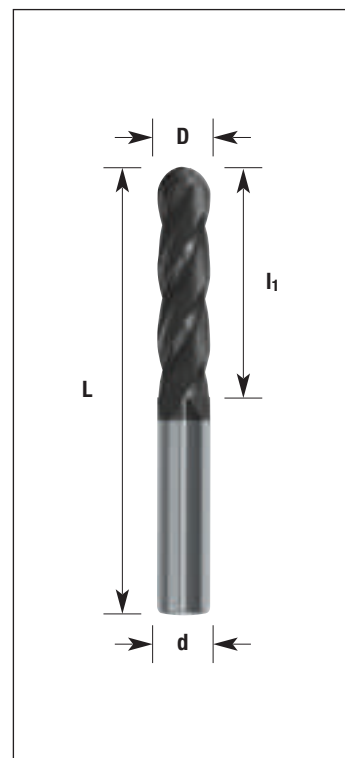
fresas frontales - serie larga / serie extra larga - perfil redondo - TiAlN multi-recubrimiento

frese lunghe / extra lunghe - sferiche - rivestimento TiAlN

**128-E**

**Z = 4**

		<b>tol: D</b> 1 - 7mm +0.000/-0.051mm > 7 - 25mm +0.000/-0.076mm 1/16" - 1/4" +0.000"/-0.002" > 1/4" - 1" +0.000"/-0.003"	<b>tol: d</b> 1 - 25mm h6 1/32" - 1" +0.000"/-0.0005"								
<b>Micro Grain K10/K30</b>	<table border="0"> <tr> <td>1.1 - 1.3</td> <td>4.1 - 5.3</td> </tr> <tr> <td>1.4 - 1.6</td> <td>6.1 - 6.4</td> </tr> <tr> <td>2.1 - 2.3</td> <td>9.1</td> </tr> <tr> <td>3.1 - 3.4</td> <td></td> </tr> </table>	1.1 - 1.3	4.1 - 5.3	1.4 - 1.6	6.1 - 6.4	2.1 - 2.3	9.1	3.1 - 3.4			
1.1 - 1.3	4.1 - 5.3										
1.4 - 1.6	6.1 - 6.4										
2.1 - 2.3	9.1										
3.1 - 3.4											
<b>DFZ (TiAlN)</b>											



D mm	d mm	L mm	l <sub>1</sub> mm	Part Nr
3	3	65	25	12811810E
4	4	65	25	12815750E
5	5	75	25	12819680E
6	6	75	25	12823620E
8	8	75	25	12831500E
10	10	100	38	12839370E
12	12	100	50	12847240E
16	16	150	75	12862990E

D ins	d ins	L ins	l <sub>1</sub> ins	Part Nr
1/4	1/4	3	1 1/8	12825000E
5/16	5/16	3	1 1/8	12831250E
3/8	3/8	4	1 3/4	12837500E
7/16	7/16	4 1/2	2	12843750E
1/2	1/2	4 1/2	2	12850000E
5/8	5/8	5	2 1/4	12862500E
3/4	3/4	5	2 1/4	12875000E