

# end mills - long / extra long - ball nosed

Schafffräser - lang / extra lang - kugelspitze

fraise en bout - longue / extra longue - bout arrondi

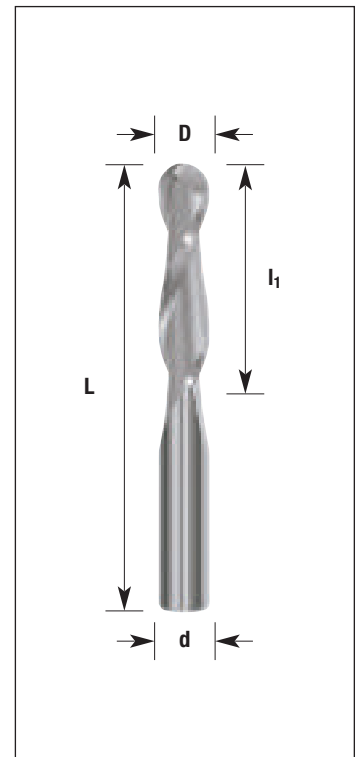
fresas frontales - serie larga / serie extra larga - perfil redondo

frese lunghe / extra lunghe - sferiche

126

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>4.1 - 5.3</td> </tr> <tr> <td>1.4 - 1.6</td> <td>6.1 - 8.3</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 - 8.3	2.1 - 2.3	9.1	3.1 - 3.4			
1.1 - 1.3	4.1 - 5.3										
1.4 - 1.6	6.1 - 8.3										
2.1 - 2.3	9.1										
3.1 - 3.4											



D mm	d mm	L mm	l <sub>1</sub> mm	Part Nr
3	3	65	25	12611810
4	4	65	25	12615750
5	5	75	25	12619680
6	6	75	25	12623620
6	6	100	38	12623620-XL
8	8	75	25	12631500
8	8	100	38	12631500-XL
10	10	100	38	12639370
12	12	100	50	12647240
12	12	150	75	12647240-XL
14	14	150	75	12655120
16	16	150	75	12662990
20	20	150	75	12678740

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

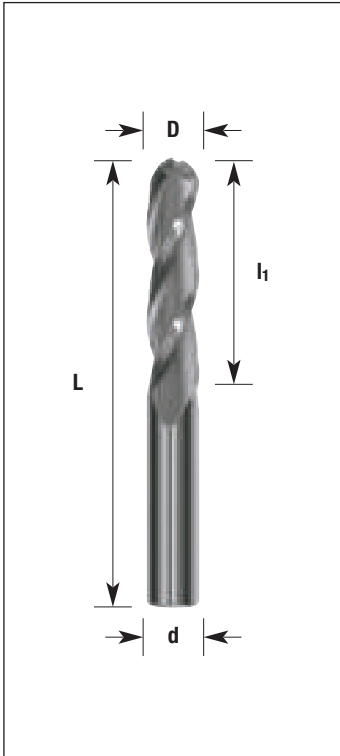
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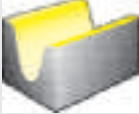
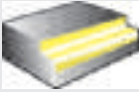
fresas frontales - serie larga / serie extra larga - perfil redondo

frese lunghe / extra lunghe - sferiche



**127**

**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>								
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2.1 - 2.3	9.1										
3.1 - 3.4											

D mm	d mm	L mm	h <sub>1</sub> mm	Part Nr
3	3	65	25	12711810
4	4	65	25	12715750
5	5	75	25	12719680
6	6	75	25	12723620
6	6	100	38	12723620-XL
8	8	75	25	12731500
8	8	100	38	12731500-XL
10	10	100	38	12739370
12	12	100	50	12747240
12	12	150	75	12747240-XL
16	16	150	75	12762990
20	20	150	75	12778740

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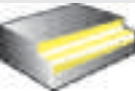

fraise en bout - longue / extra longue - bout arrondi

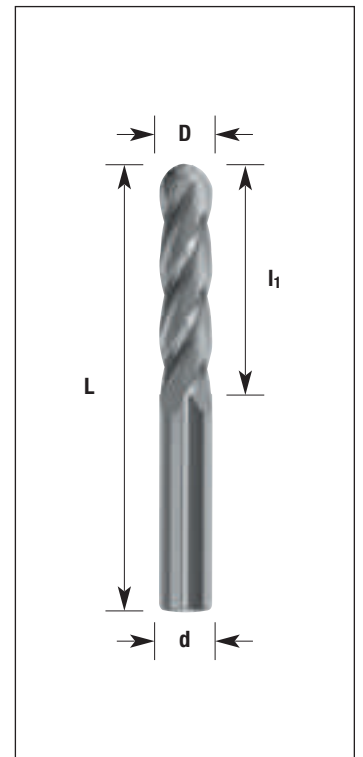
fresas frontales - serie larga / serie extra larga - perfil redondo

frese lunghe / extra lunghe - sferiche

128

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"								
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3	3	65	25	12811810
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5	5	75	25	12819680
6	6	75	25	12823620
6	6	100	38	12823620-XL
8	8	75	25	12831500
8	8	100	38	12831500-XL
10	10	100	38	12839370
12	12	100	50	12847240
12	12	150	75	12847240-XL
14	14	150	75	12855120
16	16	150	75	12862990
18	18	150	75	12870870
20	20	150	75	12878740

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