

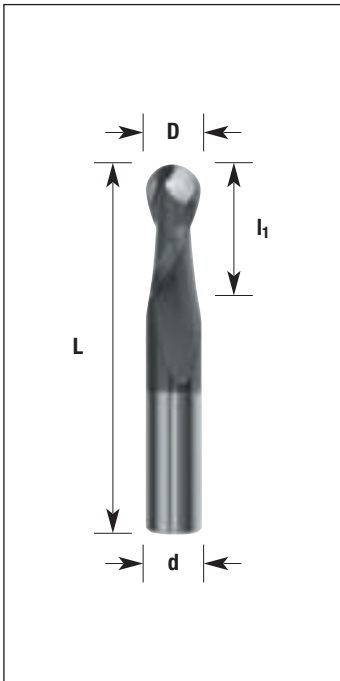
end mills - TiAlN multi coated - ball nosed

Schafffräser - TiAlN multi-Beschichtung - kugelspitze

fraise en bout - TiAlN multi-revêtement - bout arrondi

fresas frontales - TiAlN multi-recubrimiento - perfil redondo

fresa - rivestimento TiAlN - sferiche



122-E

Z=2

	tol: D 1 - 7mm +0.000/-0.051mm > 7 - 25mm +0.000/-0.076mm	tol: d h6								
K10/K30	<table border="1"> <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									
DFZ (TiAlN)										

D mm	d mm	L mm	l ₁ mm	Part Nr
2	3	38	5	12207870E
3	3	38	12	12211810E
4	4	50	14	12215750E
5	5	50	16	12219680E
6	6	63	19	12223620E
8	8	63	19	12231500E
10	10	70	22	12239370E
12	12	75	25	12247240E
16	16	88	32	12262990E

D ins	d ins	L ins	l ₁ ins	Part Nr
1/16	1/8	1 1/2	3/16	12206250E
3/32	1/8	1 1/2	9/32	12209370E
1/8	1/8	1 1/2	7/16	12212500E
5/32	3/16	2	1/2	12215620E
3/16	3/16	2	9/16	12218750E
7/32	7/32	2 1/2	5/8	12221870E
1/4	1/4	2 1/2	3/4	12225000E
9/32	5/16	2 1/2	3/4	12228120E
5/16	5/16	2 1/2	13/16	12231250E
3/8	3/8	2 1/2	7/8	12237500E
7/16	7/16	2 3/4	1	12243750E
1/2	1/2	3	1	12250000E
9/16	9/16	3 1/2	1 1/8	12256250E
5/8	5/8	3 1/2	1 1/4	12262500E
3/4	3/4	4	1 1/2	12275000E

end mills - TiAlN multi coated - ball nosed

Schaftfräser - TiAlN multi-Beschichtung - kugelspitze



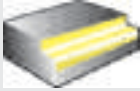

fraise en bout - TiAlN multi-revêtement - bout arrondi

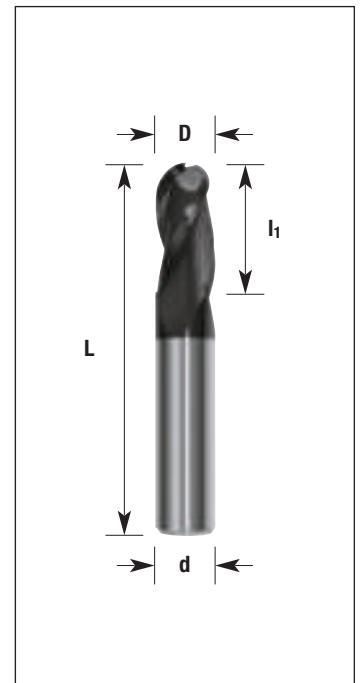
fresas frontales - TiAlN multi-recubrimiento - perfil redondo

fresse - rivestimento TiAlN - sferiche

123-E

Z=3

		tol: D 1 - 7mm +0.000/-0.051mm > 7 - 25mm +0.000/-0.076mm	tol: d h6								
Micro Grain K10/K30	<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										
DFZ (TiAlN)											



D mm	d mm	L mm	l ₁ mm	Part Nr
2	3	38	6	12307870E
3	3	38	12	12311810E
4	4	50	14	12315750E
5	5	50	16	12319680E
6	6	63	19	12323620E
8	8	63	19	12331500E
10	10	70	22	12339370E
12	12	75	25	12347240E
16	16	88	32	12362990E

D ins	d ins	L ins	l ₁ ins	Part Nr
1/16	1/8	1 1/2	3/16	12306250E
3/32	1/8	1 1/2	9/32	12309370E
1/8	1/8	1 1/2	7/16	12312500E
5/32	3/16	2	1/2	12315620E
3/16	3/16	2	9/16	12318750E
7/32	1/4	2 1/2	3/4	12321870E
1/4	1/4	2 1/2	3/4	12325000E
9/32	5/16	2 1/2	5/8	12328120E
5/16	5/16	2 1/2	13/16	12331250E
3/8	3/8	2 1/2	7/8	12337500E
7/16	7/16	2 3/4	1	12343750E
1/2	1/2	3	1	12350000E
9/16	9/16	3 1/2	1 1/8	12356250E
5/8	5/8	3 1/2	1 1/4	12362500E

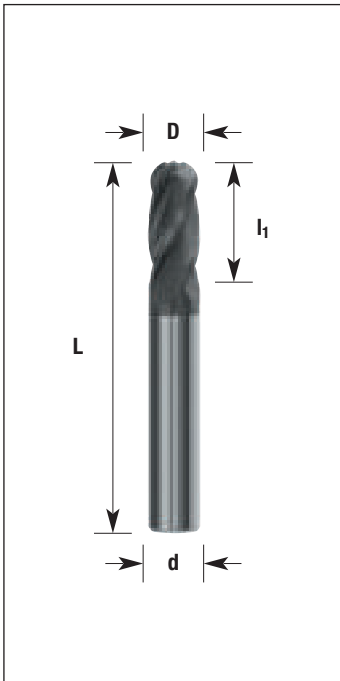
end mills - TiAlN multi coated - ball nosed

Schafffräser - TiAlN multi-Beschichtung - kugelspitze

fraise en bout - TiAlN multi-revêtement - bout arrondi

fresas frontales - TiAlN multi-recubrimiento - perfil redondo

fresa - rivestimento TiAlN - sferiche



124-E

Z = 4

		tol: D 1 - 7mm +0.000/-0.051mm > 7 - 25mm +0.000/-0.076mm	tol: d h6								
K10/K30	<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										
DFZ (TiAlN)											

D mm	d mm	L mm	l ₁ mm	Part Nr
2	3	38	6	12407870E
3	3	38	12	12411810E
4	4	50	14	12415750E
5	5	50	16	12419680E
6	6	63	19	12423620E
8	8	63	19	12431500E
10	10	70	22	12439370E
12	12	75	25	12447240E
16	16	88	32	12462990E

D ins	d ins	L ins	l ₁ ins	Part Nr
1/16	1/8	1 1/2	3/16	12406250E
3/32	1/8	1 1/2	9/32	12409370E
1/8	1/8	1 1/2	7/16	12412500E
5/32	3/16	2	1/2	12415620E
3/16	3/16	2	9/16	12418750E
7/32	1/4	2 1/2	5/8	12421870E
1/4	1/4	2 1/2	3/4	12425000E
9/32	5/16	2 1/2	3/4	12428120E
5/16	5/16	2 1/2	13/16	12431250E
3/8	3/8	2 1/2	7/8	12437500E
7/16	7/16	2 3/4	1	12443750E
1/2	1/2	3	1	12450000E
9/16	9/16	3 1/2	1 1/8	12456250E
5/8	5/8	3 1/2	1 1/4	12462500E
3/4	3/4	4	1 1/2	12475000E