

DIXI
COOL+

DIXI
polytool

DIXI POLYTOOL
ALWAYS
FURTHER!

DIXI 7443-5D COOL+®

New DIXI COOL+® rang

For machining deep grooves and pocket

The combination of DIXI COOL+® lubrication system and a rigid geometry allows outstanding depth of cut.



PATENTED CONCEPT OF ORIENTED AND ACCELERATED DIXI COOL+® LUBRICATION

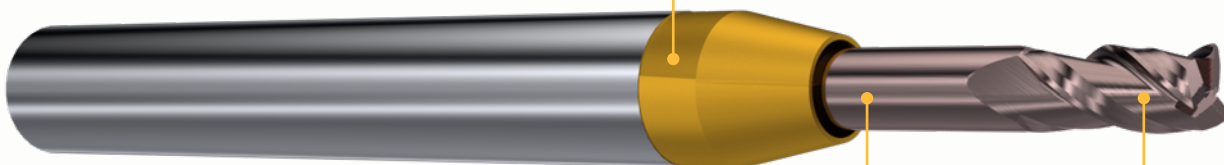
- Optimal lubrication
- High performance cooling
- Perfect chip evacuation

GEOMETRY

- Flute developed for optimal chip evacuation
- Optimized cross-section to ensure good rigidity

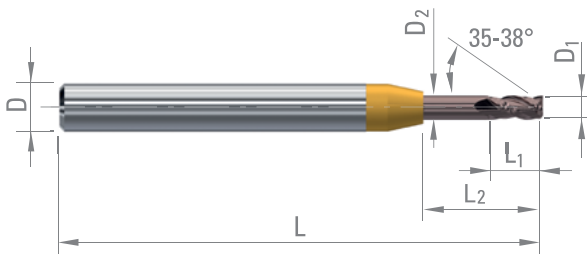
C-TOP COATING

- New generation of dropless coating
- High wear and oxidation resistance





5xD₁ NECKED DOWN END MILLS WITH ACCELERATED LUBRICATION



Low alloyed steel	High alloyed steel	DUPLEX stainless steel	Cast iron	Refractory alloy
Titanium, titanium alloy	Cu alloy Silver Gold	Cu alloy difficult to machine	Gold	Silver

D ₁	L ₁	D ₂	L ₂	D _{h5}	L	C-TOP
<small> Ø ≤ 2.00 - 0/-0.01 Ø < 6.00 - 0/-0.02 Ø ≥ 6.00 - e8 </small>						

0.30	0.70	0.27	1.60	4	38	412150
0.40	0.90	0.36	2.20	4	38	412151
0.50	1.10	0.45	2.70	4	38	412152
0.60	1.40	0.54	3.20	4	38	412153
0.70	1.60	0.63	3.80	4	38	412154
0.80	1.80	0.72	4.30	4	38	412155
0.90	2.00	0.81	4.80	4	38	412156
1.00	2.20	0.90	5.20	4	38	412157
1.10	2.40	0.99	5.80	4	38	412158
1.20	2.60	1.08	6.30	4	38	412159
1.30	2.80	1.17	6.70	4	38	412160
1.40	3.00	1.26	7.30	4	38	412161
1.50	3.20	1.39	7.80	4	38	412162

D ₁	L ₁	D ₂	L ₂	D _{h5}	L	C-TOP
<small> Ø ≤ 2.00 - 0/-0.01 Ø < 6.00 - 0/-0.02 Ø ≥ 6.00 - e8 </small>						

1.60	3.40	1.48	8.30	6	55	412163
1.70	3.60	1.58	8.70	6	55	412164
1.80	3.80	1.67	9.20	6	55	412165
1.90	4.00	1.76	9.70	6	55	412166
2.00	4.50	1.85	10.30	6	55	412167
2.50	5.50	2.32	12.80	6	55	412168
3.00	6.50	2.78	15.30	6	55	412169
4.00	8.50	3.72	20.40	8	64	412170
5.00	10.60	4.65	25.40	8	80	412171
6.00	13.30	5.55	30.70	8	74	423538
8.00	18.30	7.40	42.30	10	90	423539
10.00	22.50	9.25	51.90	12	105	423540

EXAMPLE OF APPLICATION

Deep grooving

DIXI 7443-5D COOL+ Ø2.00 C-TOP

Material : Stainless steel 1.4441 / 316VLM

Rotation : n = 15'000 rpm (Vc = 94 m/min)

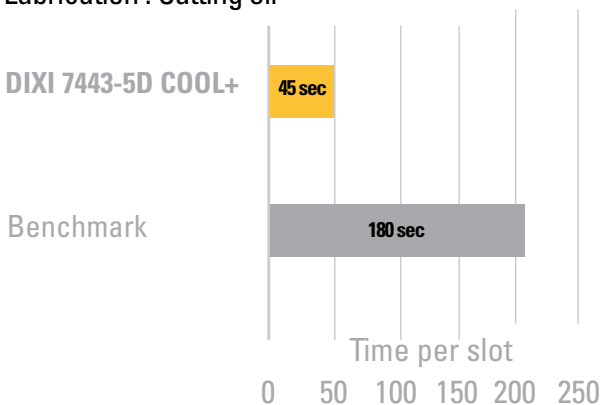
Feed rate : Vf = 350 mm/min (fz = 0.008 mm/tooth)

Depth of cut : ap = 3.33 mm

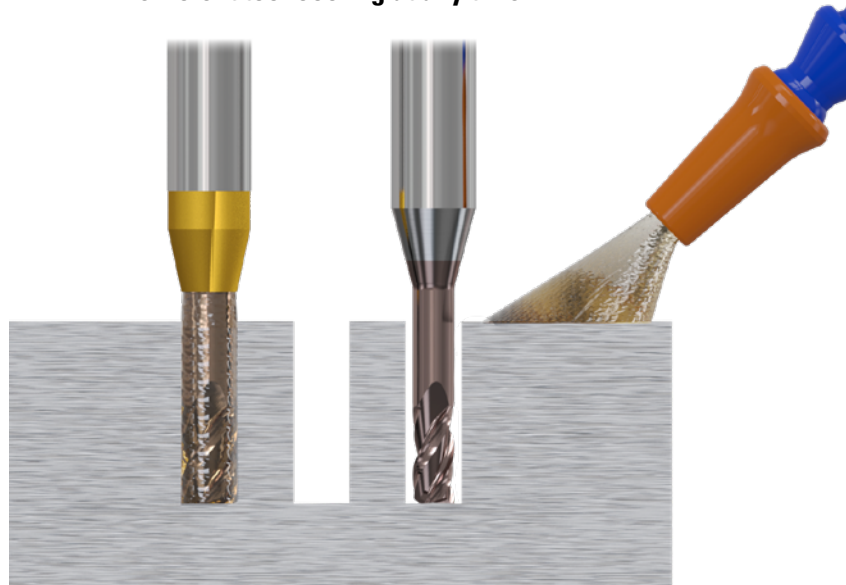
Total depth : 10.00 mm

Chip flow : 2.30 cm³/min

Lubrication : Cutting oil



The DIXI COOL+ lubrication system ensures an efficient tool cooling at any time !



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