

## NEW END MILLS

## FOR ALUMINUM MACHINING

**DIXI 7563**

Carbide, new DIXAL coating,  
cutting geometry with variable helix,  
optimized coolant channels,  
a new winning combination

**DIXI 7563-FC**

**DIXI POLYTOOL S.A.**

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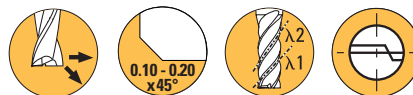


Enjoy Swiss Precision

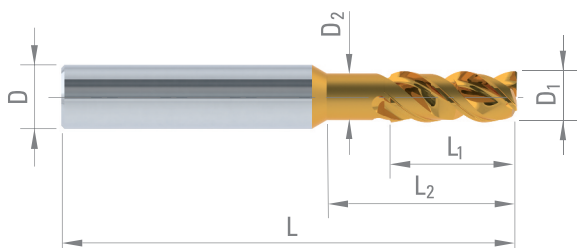
# DIXI 7563

END MILL WITH VARIABLE HELIX

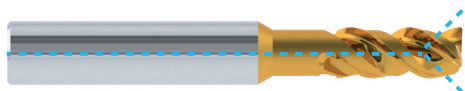
Z = 3



7563



7563-FC



Cu alloy  
Silver  
Gold

Cu alloy  
difficult  
to machine

Al

7563



7563-FC



$D_{1h10}$	$L_1$	$D_2$	$L_2$	$D_{h5}$	L	DIXAL	DIXAL
4.00	9.0	3.60	14	4	57	991388	
6.00	13.0	5.60	21	6	57	991389	321899
8.00	19.0	7.40	26	8	63	991390	321900
10.00	22.0	9.30	30	10	72	991391	321901
12.00	26.0	11.00	37	12	83	991392	321902
16.00	32.0	15.00	42	16	92	991393	321903
20.00	38.0	19.00	50	20	104	991394	322866

## APPLICATION EXAMPLE

**Tool** DIXI 7563-FC Ø 16 DIXAL  
**Machine** Vertical milling centre  
**Operation** Roughing and finishing operation  
**Material** Fn-AlCu (Aluminium copper alloy)

### Roughing data

$n = 9'000$  rev/min       $V_f = 3'250$  mm/min       $a_p = 20$  mm  
 $V_c = 450$  m/min       $f_z = 0.121$  mm       $a_e = 6$  mm

### Finishing data

$n = 9'000$  rev/min       $V_f = 4'000$  mm/min       $a_p = 20$  mm  
 $V_c = 450$  m/min       $f_z = 0.14$  mm       $a_e = 0.50$  mm

### Results

Thanks to its geometry and the use of flute coolant, the DIXI 7563-FC allowed to double the feed rate in comparison to the competitor tool.

