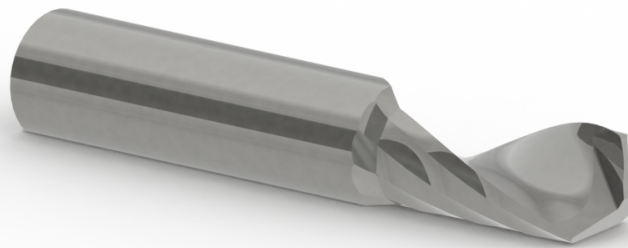


## APPLICATION EXAMPLE

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### DRY MACHINING APPLICATION FIELD: ALUMINIUM WINDOWS MACHINING



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#### MACHINING

<b>Objective</b>	Remove the lubrication
<b>Tool</b>	SINGLE TOOTH END MILLS FOR ALUMINIUM <b>DIXI 7561</b> SP Ø 5 / 7 / 8 / 10mm Z=1 + DLC coating

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#### CUTTING CONDITIONS

<b>Material</b>	Alu 6060 (Aluminium profile)
<b>Machine</b>	BDM-DUBUS
<b>Lubricant</b>	Without lubrication
<b>Cutting data</b>	n = 18'000 rev/min whatever the tool diameter Vf = 500 to 2500 mm/min

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#### RESULT

The addition of DLC coating on DIXI tools enabled to remove the micro-lubrication and to improve the following aspects:

- Removal of a degreasing operation lead by 4 full-time posts allowing improvements on productivity and delivery time, as well as the reduction of machining costs and risks due to the exposure to hazardous materials.
- Ease of machine cleaning thanks to non-sticking chips
- Improvement of surface finish
- Increased tool life in comparison to uncoated tools