Dry machining of aluminum during a aluminum slotting test

**Tool:**
End mill Ø 12 teeth 3
Slotting milling

**Workpiece:**
Plate 300x300x40mm
AlSi7Mg (6.5-7.5% Si)

**Cutting data:**
Toolholder HydroChuck
\[ v_c = 280\text{m/min}, \quad f_t = 0.06\text{mm} \]
\[ v_i = 1.337\text{mm/min} \]
\[ a_p = 12\text{mm}; \quad a_e = 12\text{mm} \]

**Benefit:**
Improved surface quality
High reduction of spindle power due to full benefit of decrease of friction

**Source/Customer:**
German tool manufacturer