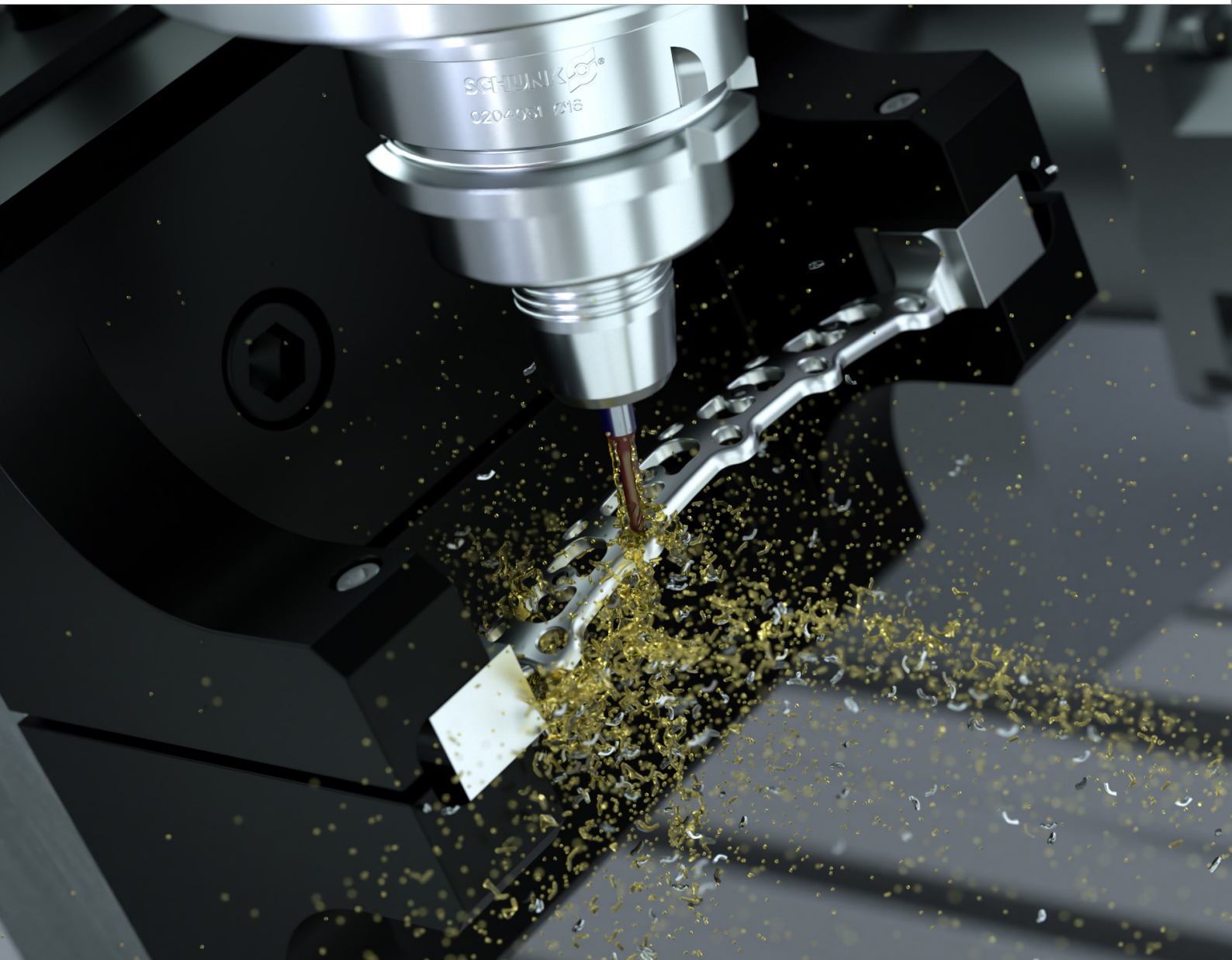


Implant milling: how to increase productivity?

REAL CUSTOMER CASE



BONE PLATE MACHINING

Material: Titanium Gr.5 / 3.7165 / ASTM B348

Initial cycle time: 72 min

Optimized cycle time: 32 min

Saving: 40 min / part

BENEFITS

- 2 times faster
- 3 times longer tool life

Real customer case

BONE PLATE

Initial situation:

Material: Titanium Gr.5 / 3.7165 / ASTM B348

Number of tools: 12

Machining time: 72 min

Target: increase productivity



Example of rough milling

CRAZYMILL™
by Mikron Tool

CRAZYMILL COOL SQUARE Z4



d = 8 mm
v_c = 170 m/min
n = 6'764 rpm
f_z = 0.12 mm
v_f = 3'246 mm/min
a_p = 20 mm
a_e = 0.4mm

TENDO Platinum



- Run out and repeated accuracy of < 3 µm
- Balancing grade of G2.5 at 25.000 rpm
- Excellent vibration damping

Q = 25.96 cm³/min

Result with optimized machining:

Number of tools: 11

Machining time: 32 min

Saving: 40 min / part

ADVANTAGES

Efficient and process reliable machining needs specially appropriate cutting tools and clamping solutions with:

- Innovative cooling system for milling
- Specific cutting geometry
- Heat and wear resistant coating
- Micron precise tool change in seconds
- High clamping forces
- High modularity

What can we do for your application?

Feel free to contact us!

YOUR CONTACT

MIKRON TOOL SA AGNO

Via Campagna 1
6982 Agno
Switzerland
Tel. +41 91 610 40 00
mto@mikron.com

SCHUNK GMBH & CO. KG

Bahnhofstr. 106 - 134
D-74348 Lauffen/Neckar
Germany
Tel. +49 7133 103 0
info@schunk.com