

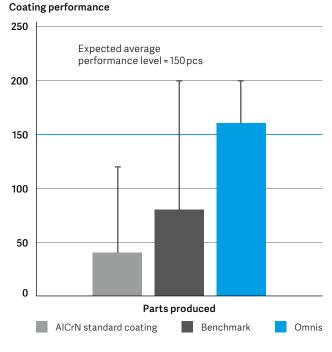
# New Coating Omnis

# Universal high-performance AICrN-MB coating

## Omnis is a universal high-quality coating developed for a wide range of applications for wet and dry machining:

- Optimized coating properties (hardness, modulus, morphology) with advanced plasma parameters
- Higher productivity and deposition rate through increased process performance
- Advanced BIAS strategy for optimized residual stress distribution
- Use of multi-alloyed targets for maximum productivity

# With Omnis from PLATIT, variance between the tests is reduced:



#### Tool: Shaper cutter, Coating thickness: 3.5 µm Workpiece material: 1.7131; 33 HRC Wet machining

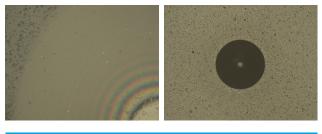
Source: Customer in Germany

### **Highlights:**

- · Universal applicability e.g., for roughing, skiving, hobbing, finishing, forming, micro tools
- Omnis also works in applications typically covered by AITiN and AICrSiN coatings
- Superior and predictable wear behavior
- Fast and economical with extremely short batch times, e.g., for 2.0 µm on endmill (3-fold rotation) or 4.0 µm on hob (2-fold rotation):
  - 4.0 h with Pi411 PLUS TURBO
  - 4.5 h with Pi411 PLUS ECO
  - 6.5 h with PL1011

#### **Specifications**

Color	grey/anthracite
Nano-hardness [GPa]	34 ± 2
Coefficient of friction [µ] PoD (at RT, 50% humidity)	0.5
Coating thickness [µm]	0.3-6.0
Max. service temperature [°C]	1100
Coating temperature [°C]	480



Omnis