



## Maximizer Plus TiAlN



### Advanced Arc Technology

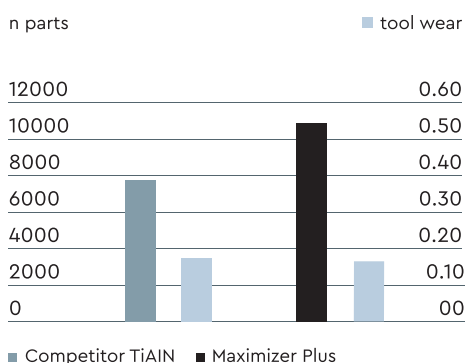
Ionbond has developed a new series of premium cutting tool coatings using an advanced arc technology. The new process deposits the coatings at far higher energy levels than possible with conventional arc sources. The coatings have a significantly increased density, which leads to improved abrasion resistance and reduced tendency for chipping at the edge of the cutting tool. The coating has fewer growth defects resulting in a smoother surface, which can be further improved with the appropriate post treatment.

The cutting performance is enhanced due to the highly controlled compositions and internal stress gradients. The coatings are suitable for HSS and tungsten carbide tools and show the increased performance in dry and wet machining.

### Maximizer Plus

Maximizer Plus is a significantly improved TiAlN coating. It is ideal for milling and drilling of a broad range of low to high tensile strength and tool steels up to 50 HRC, cast irons and some stainless steels at moderate cutting speeds and temperatures below 850°C.

### Drilling



### Technical Data

Material	TiAlN
Technology	PVD Advanced Arc
Thickness range	2 - 4 μm
Microhardness HV 0.02	3100
Friction vs. steel (dry)	0.6
Max. service temperature	850°C
Process temperature	450 - 500°C
Color	Purple-black

### Coating Performance

Tool	CC drill
Dimension	Ø 6mm
Workpiece material	1.7225
Cutting speed m/min	90
Machining condition	wet
Source of data	costumer