

ALPHA1000C PVD COATING SYSTEM

The heavyweight for minimum
friction and maximum output



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THE HEAVYWEIGHT COATER

The alpha1000C is currently our largest magnetron sputter system with a high usable volume and comparably short cycle times. It enables you to produce friction-reducing coatings of large parts or larger quantities of smaller tools or components in industries such as automotive, aviation, machine engineering and tool manufacturing.

It is also a perfect match for your requirements as an original part manufacturer (OEM) with a high throughput of similar-type parts.

STANDARD COATINGS

DLC coatings like:

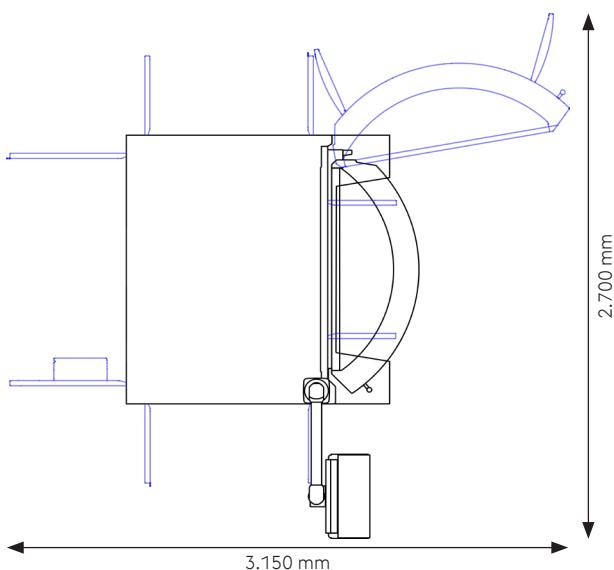
- » SUCASLIDE®
- » CARBON-X®

OPTIONAL COATINGS

- » MoX2®
- » All tribological coatings

LAYOUT

- » Small footprint for easy integration in factory floor plan
- » Access to all sides for easy maintenance and service



ADVANTAGES

- » High plasma density
- » Low deposition temperature (<250 °C)
- » Smooth coatings
- » High flexibility, high productivity
- » Simple loading and intuitive operation
- » Easy to maintain
- » Low operation costs
- » Cryo pump for faster pumping
- » Optional: deposition of nitridic hard coatings with substrate temperature <250 °C / 482 °F

TECHNICAL DATA

Usable volume	Ø 600 x 1,000 mm
Load	Max. 1,500 kg
Coating chamber (LxWxH)	865 x 865 x 1,570 mm
Dead weight	5,040 kg
Distributed load	1,900 kg/m ²
Bias	10 kW / max. 700 V DC / pulsed DC
Sputter sources	6 pieces 1,243 x 145 mm, 10 kW each
Batches per day	Typically 2 – 3 batches
Exemplary batch end mills (Ø 10 x 70 mm)	1,440 pieces per batch
Turntables	Different numbers of planetaries available