

# 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.

### MAIN COATINGS

DLC coatings like:

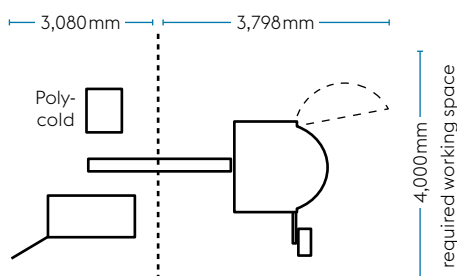
- » SUCASLIDE®
- » CARBON-X®

### OPTIONAL COATINGS

- » MoX2®
- » all tribological coatings

## SMART DESIGN FOR MORE FLEXIBILITY

- » space-saving design with separate chamber, allowing for split setup in different parts of the factory



## MAIN BENEFITS

- » 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 mm × 1,000 mm
Load	max. 850 kg
Coating chamber (L × W × H)	865 × 865 × 1,570 mm
Cabinets weight	1,250 kg
Coating unit weight	3,900 kg + 470 kg (incl. Polycold)
Pumping station weight	250 kg
Distributed load	1,900 kg per sqm (incl. batch load)
Bias	10 kW / max. 700 V DC / pulsed DC
Sputter sources	6 pcs., 1,243 × 145 mm, 10 kW each
Batches per day	typically 2 – 3 batches
Exemplary batch Endmills (Ø 10 × 70 mm)	1,440 pcs. per batch

