





Best opportunity for PRECISE return on invest

# Why ALCHIMIST 28 is your next big step

### **Precision-Enhanced**

Tailored for indexable tungsten carbide inserts with seamless in-process dressing capabilities, ensuring precision even for Cermet, CBN and PCD.

### Sturdy Foundationmachine bed

Crafted with an artificial marble and cast iron base for durability and low thermal expansion.

### **Next-Gen Motor Technology**

Digital water-cooled AC motor for the Spindle, and a modern digital AC Servomotor for B-axis as well Linear motors for X and Y-Axis.

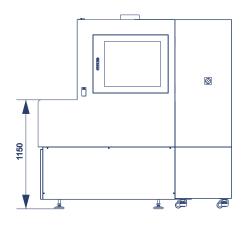
### State-of-the-Art Control Units

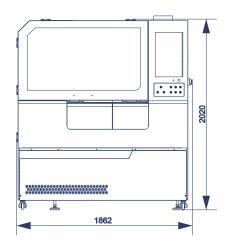
Machine control by Germany's renowned Bosch Rexroth.

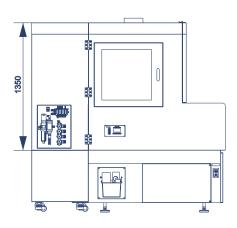
Robot control expertise from Japan's Nachi.

Stable temperature conditions with a dedicated air/water heat exchanger.

## **Dimension and Footprint**









# Join the future of precision grinding

### **Enhanced Connectivity**

Swift data transfer with local Ethernet. Uninterrupted power supplies guarantee zero data loss during emergencies.

### **Integrated Robot Systems**

A robust tubular frame construction, ensuring maximum stability. Versatile gripper head capabilities, catering to various operational needs.

### **Advanced Measuring Systems**

Autoset technology for automatic centering, ensuring a perfect grind every time.

### **Efficient Cooling & Lubrication**

Centralised systems guarantee constant machine performance

### **Reliable Grinding-Wheel Conditioning**

Achieve an always-clear grinding surface during cycles.

Interested in diving deeper into what the Alchimist 28 offers? We have detailed specs ready for you.



# **Technical specification**

### **Main Technical Data:**

BA	(IS			
Vm	ах			

Working feed speed 0~60(°s-1)
Resolution of the measuring system 0.0001(°)
Repeating positioning accuracy 0.002(°)

### CAxis

Vmax $90(^\circ s-1)$ Working feed speed $0\sim90(^\circ s-1)$ Travel range $-91^\circ/+45^\circ$ Resolution of the measuring system $0.0001(^\circ)$ 

### **X** Axis

Vmax 10000(mm min-1)
Working feed speed 0~3600(mm min-1)
Resolution of the measuring system 0.0001(mm)
Repeating positioning accuracy 0.001(mm)
Travel range 120(mm)

### **Y** Axis

**Vmax** 10000(mm min-1) Working feed speed 0~3000(mm min-1) Resolution of the measuring system 0.0001(mm)Repeating positioning accuracy 0.002(mm)max.200(mm) Travel range Oscillation speed max.63(mm s-1) Oscillation frequency 0-2(Hz) max.10(mm) Oscillation arrangement

### Dimension of the gridning insert

Smallest Ic of the insert 3.75(mm)
Biggest Ic of the insert 50(mm)

Whole Machine Consumption 25KW

### Main Grinding Spindle

360(°s-1)

Grinding wheel diameter 350(mm)
Max.spindle speed 3600 (min-1)
Motor power 9KW
Max.grinding wheel speed 65(m s-1)

### **Dressing Attachement in Process**

Dressing wheel diameter  $\phi 150 \times H80 (mm)$ 

### Workpiece clamping system

Clamping pressure 2000 - 11000N Clamping range max.29(mm)

### Inscribed cirlce measurement DX

Measuring range (standard/optional) 25(mm)/45(mm)
Measurement resolution 0.0005(mm)

### Thickness measurement DT

Measuring range max.29(mm)
Measurement resolution 0.005(mm)

### **Machine Box dimension**

Machine 2350×2130×2300(mm)
Coolant Cleaning unit (option) 1800×1200×1500(mm)

### Auto Fire Extinguisher

Extinguisher material CO2 Weight of Material 7Kg

Weight of Material Around 5T



# **Contact Us Today!**

