

# FULLY-AUTOMATIC GREEN CERAMIC CUTTER CM-14



- Cuts the most difficult, high thickness Ceramic Ware
- Automatically positions knife with high accuracy
- Automatically finds cutting markers
- Adjustable speed and cutting depth
- Quick change and alignment of cutting blade
- Warning function for blade wear and replacement
- High productivity due to high cutting speed

**Fully vision controlled; High speed**

CM 14 is setting new standards in high-accuracy, high-speed blade cutting of green ceramic ware. The compact CM 14 utilizes software that allows one operator to work multiple machines simultaneously. The automatic blade insertion and alignment system is unique; resulting in considerably improved uptime performance. The sturdy CM 14 design with sealed ball bearings on moving parts ensures a long lifetime for the equipment with minimal maintenance. The vision system on the CM 14 adapts itself to your green ceramic by motorized camera positioning. The high-resolution cameras can detect the designated marks on the side or on the top of the ceramic bar, even under the lowest contrast conditions. Automatically the blade position will be corrected with high accuracy. The temperatures of blade and table can be set in a very wide range to accommodate the process conditions needed for high-thickness cutting and high speeds without deformation of the bar. The speed of the blade and cutting depth can be set in accordance with your cutting wishes.

The ceramic ware is fixed on the carrying table by a high vacuum on a paper or foil carrier or on your metal carrying plate. The software of the CM 14 is very operator-friendly and allows easy automatic alignment of the bar when starting and easy detection of markers. The machine will also accept high ceramic ware.

The blade holder will accept your choice of stainless steel or solid carbide blades. After a preset number of cuts the CM 14 will warn that the blade must be changed. The blade holder will open automatically to allow easy change of the blade. After insertion of the new blade the holder will close. The blade is aligned automatically. The total blade changing procedure will therefore take much less than a minute with no tools necessary.

The CM 14 is equipped with servomotors allowing speeds of upto 18,000 cuts per hour (5 cuts per second!). Together with the uptime performance this results in unequalled productivity for high accuracy cutting.

## Fully Automatic Green Ceramic Cutter CM-14

### Typical specifications <sup>1</sup>



Cutting capacity:	18,000 cuts/hour without vision function 11,000 cuts/hour with vision function every 5th cut 3,600 cuts/hour with vision function every cut
Ceramic size:	8 x 8 or 6 x 6 inches or your custom size
Blades:	Stainless steel, Solid carbide
Temperature of cutting table:	Maximum 80 °C
Temperature of cutting blade:	Maximum 150 °C
Accuracy of stepping:	0.01 mm
Safety:	Equipment complies with US and CE safety regulations
Dimensions:	Length 1,200 mm or 47 inches Width 1,080 mm or 42 inches Height 1,550 mm or 61 inches

### Options

- Vacuum system to hold metal plates
- Hot stages for thermal release
- Large ceramic ware heights
- LTCC compatibility
- Internal vacuum generator
- Manual system with camera and videoscreen only

1) Because our equipment is customized for specific requirements, specifications given are subject to change.



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