

## TITANIUM 5 AXIS

### Laser Solutions for CVD & Ultra-Hard Materials

Titanium is the most precise Laser Dicing Machine for ultra hard materials and excellent to processed PCD, CBN, PCBN and CVD DIAMOND tools

With Titanium easy to create any abrasives tools for honing ring, grinding wheels, Milling Cutter, Cutting inserts, Gear Cutting Tools, Chamfer & Deburring Tools, CBN Insert and more.

The Titanium Laser 5X System is a revolutionary machine that is replacing all other previous methods for cutting, eroding and grinding by using powerful green lasers.

It is an accurate machine capable of cutting ultra-hard material through a gentle method and guarantees remarkable surface quality.



manifest



# HIGHLIGHTS

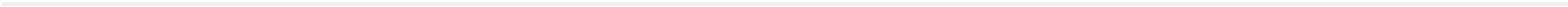
- High quality laser beam enables high cutting speed and accuracy, low kerf width and straight profile.
- Supports the import of 2D shapes from CAD (Computer-Aided Design).
- Safe laser and processing doors are equipped with safety locks.
- User friendly, easy to manipulation of X-Y stage and Z (focus) axis.
- Built in Cooling System and vacuum cleaner.
- Rugged construction: laser, optics and tables are mounted on a Stabilized steel frame.
- Sawing is done in mass production, 24/7.
- Optional 5 Axis model.

[Back to Top](#)

# SOLUTIONS

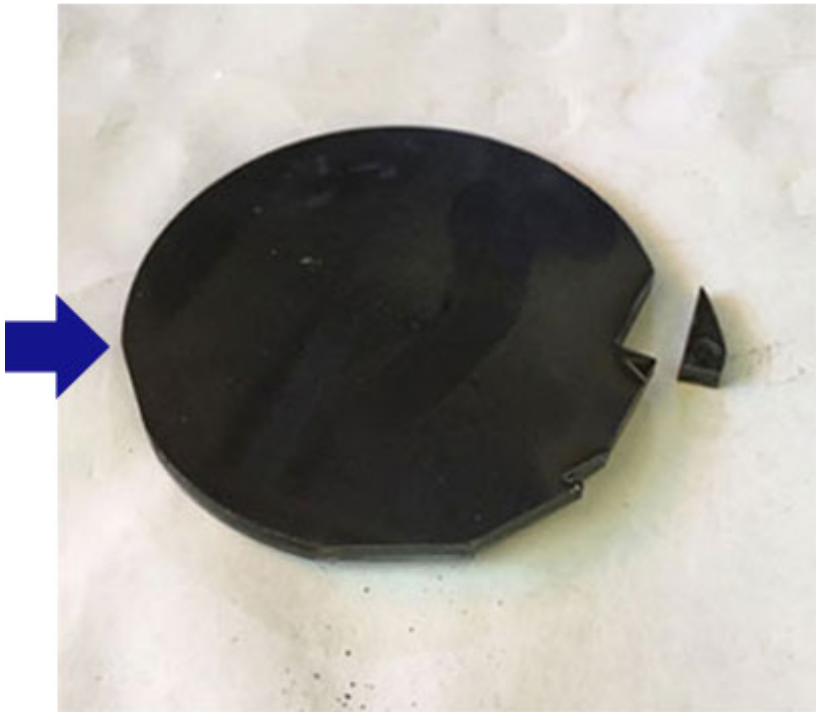
Use of ultra-hard materials is growing in various industries and many manufacturers face the challenging need to increase their capability of manufacturing and cutting of these materials.

PCD/PCBN	CBN Tools	Medical tools	CVD Growing	CVD Slice	SemiConductoi	Abrasive Tools	Diamond Tools	Cutting Tools
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Before Titanium process

After Titanium process



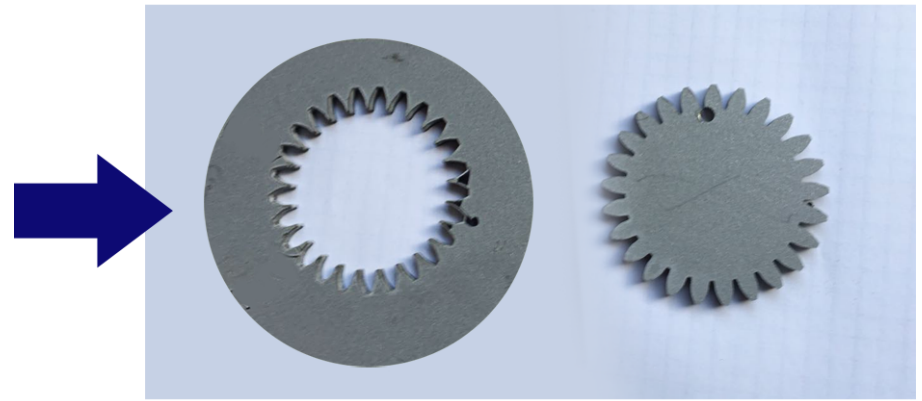
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PCD Slice

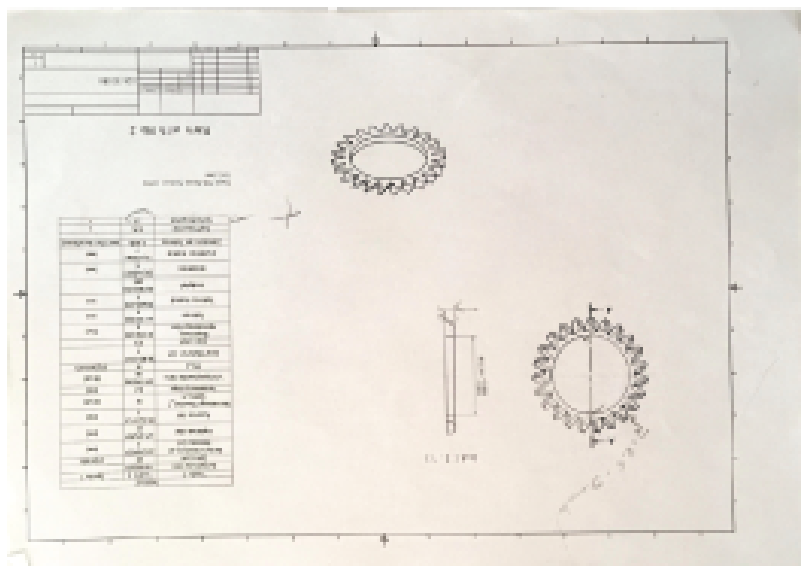
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Diamond Tools abresive  
Gear shape from PCD Material

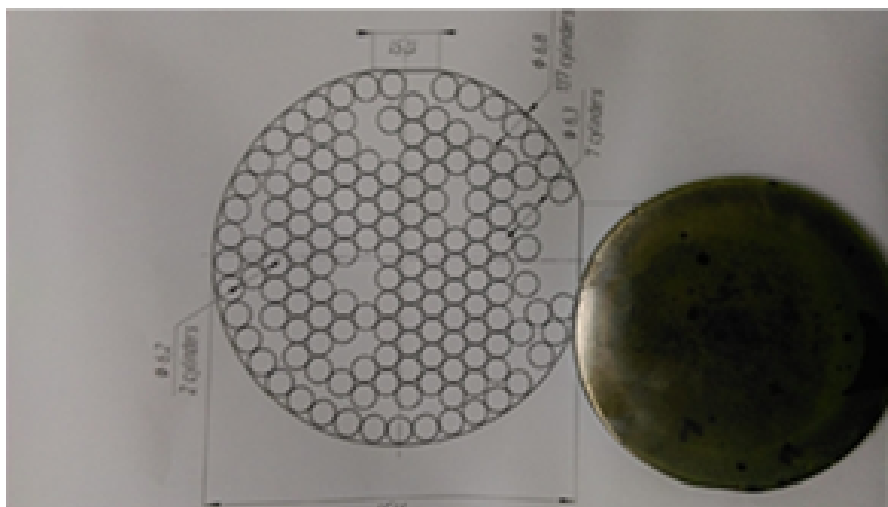
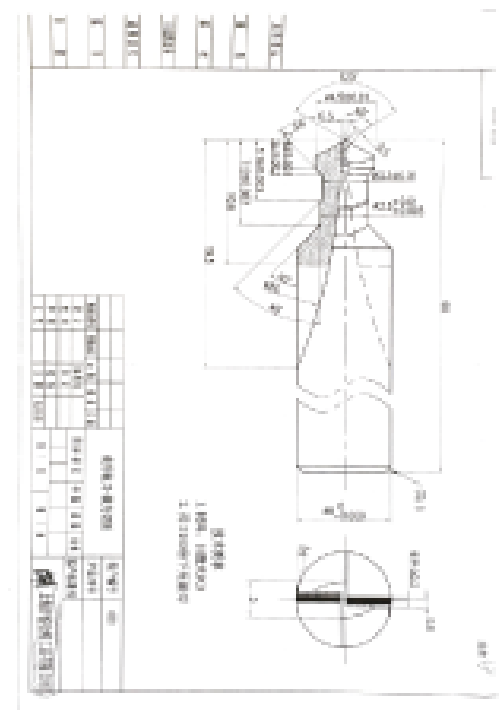
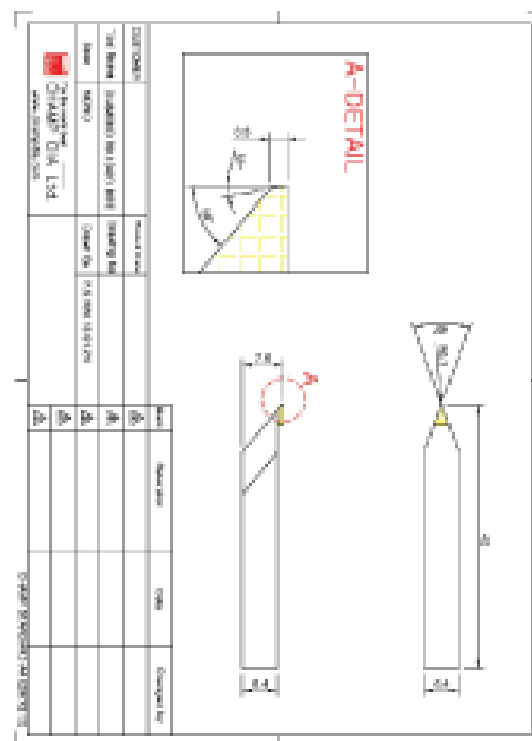
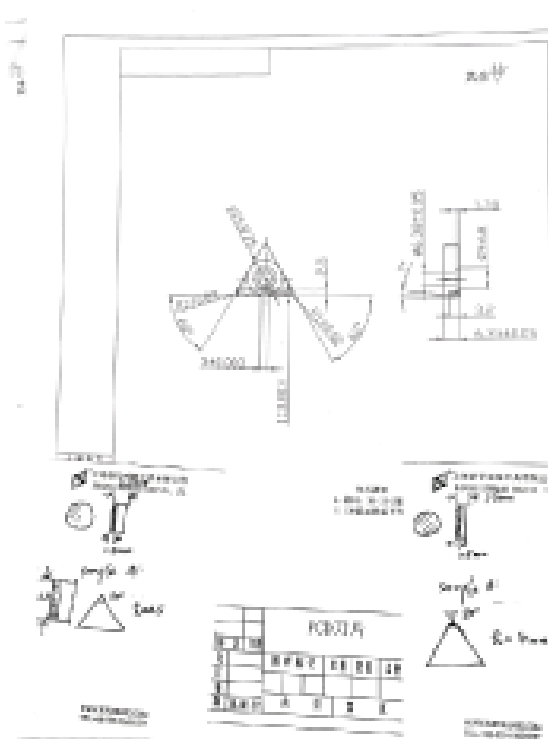
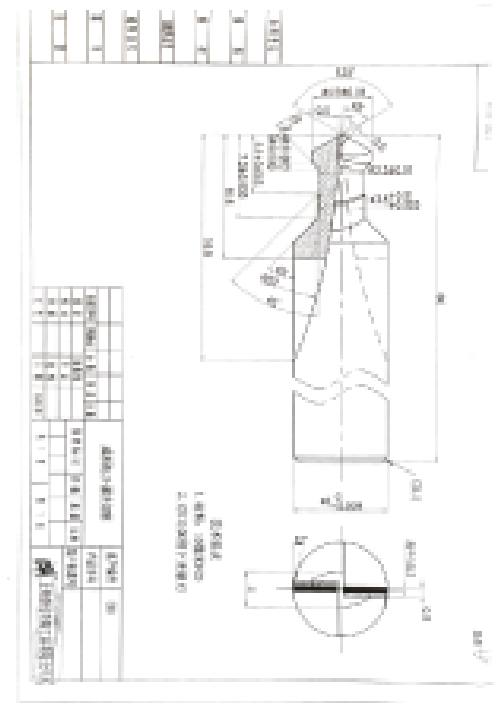
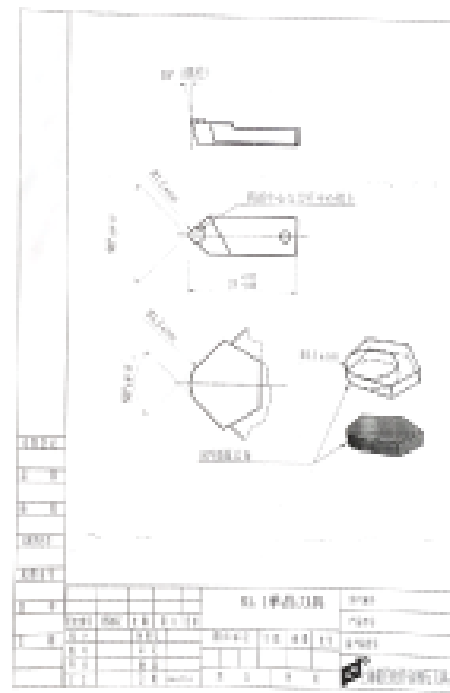
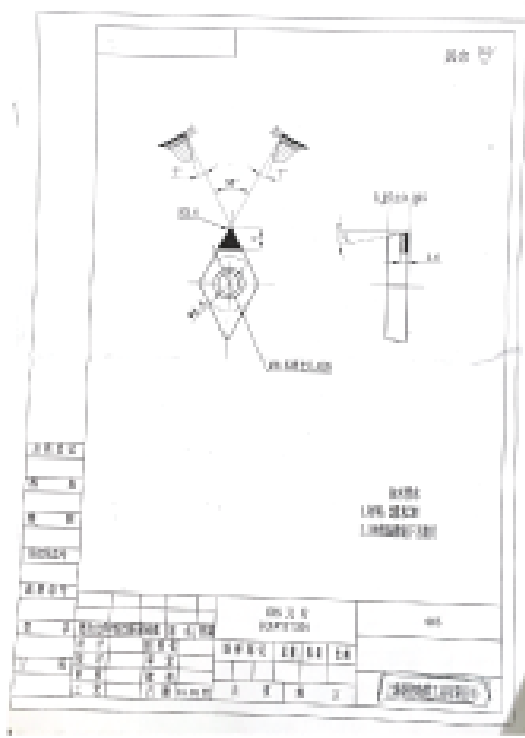




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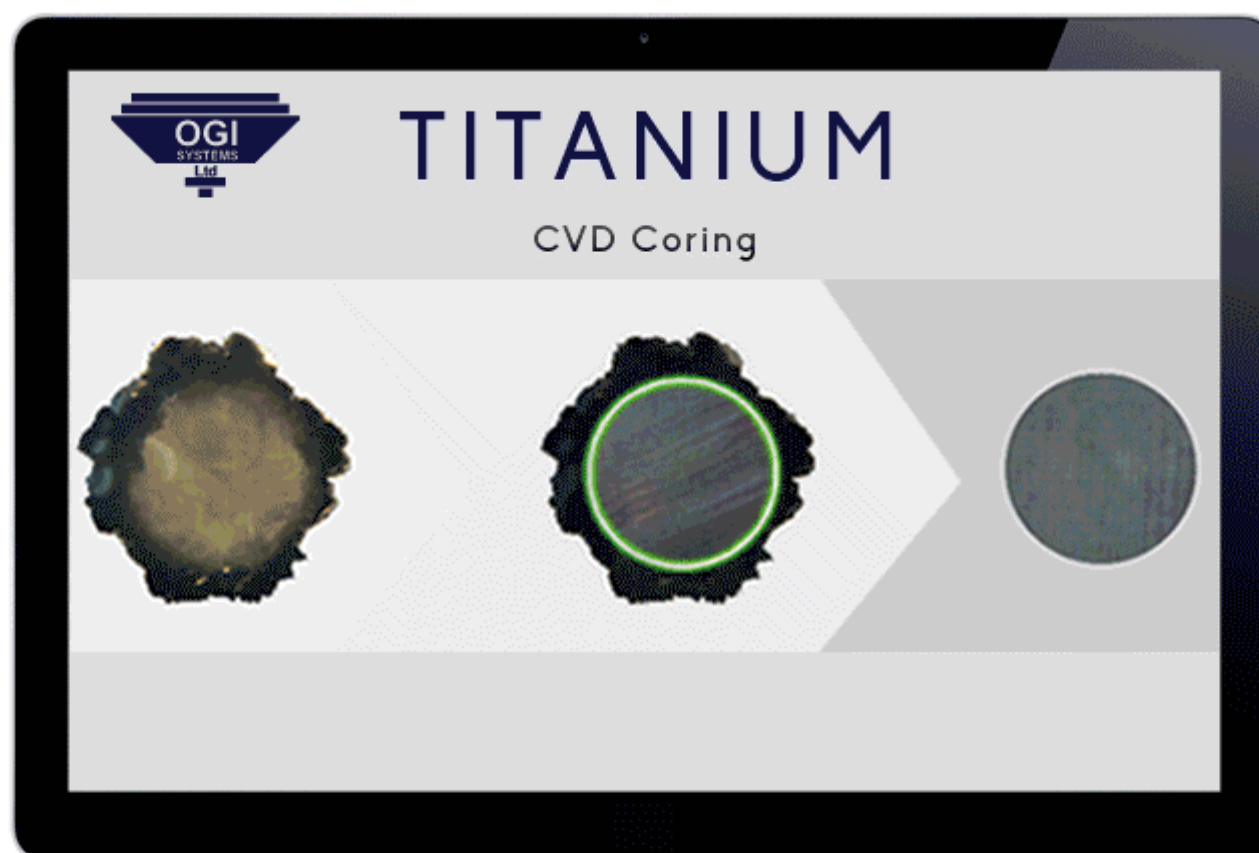


Other Productions



# APPLICATIONS

The laser technology utilization, together with the high demand for ultra-hard materials, are opening up potential applications in a wide array of industries.



# MY TITANIUM

Working Area:	L:200 x H:200 x W:100mm
Accuracy	+/- 3 $\mu$ m
Repeatability	+/- 1 $\mu$ m
Number of axes	3- or 5-axis
Wave Length	532 nM
Laser Type	Diode pumped solid state Nd: YAG, pulsed
Transverse Mode	TEM00
Dimensions Machine	L: 144 x H: 171 x W:74cm
Dimensions Cabinet	60 x 60 x 50
Voltage	220 ac, 1-phase, 50 / 60Hz, 16A
Weight	420 Kg (926 lbs)



**You can use our OGI Lab service center to give demo or for job work.**

[Back to Top](#)

**\* 1 YEAR WARRANTY.**

**Manufacturer & Tender Solutions:**  
Rough Planning

**Gemological & Retail Tools:**  
Cut Grading Polished Diamonds

**Software:**  
CutGrade