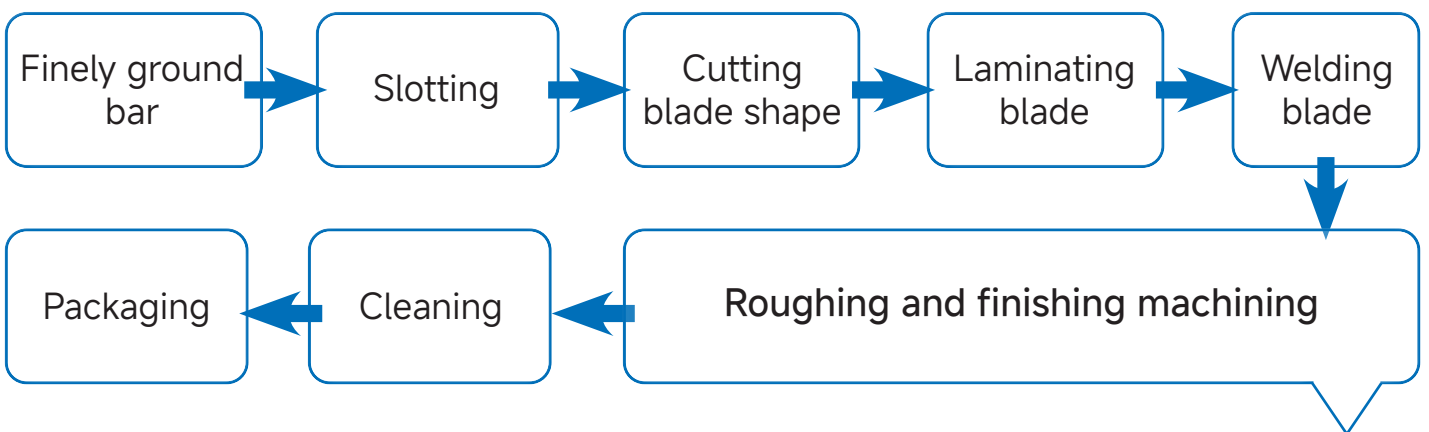


Light 5X Series

Vertical 5-Axis Laser Machining Center



Laser

Environmental protection

200X Curved cutting edge

200X Straight cutting edge

Laser process:

- 200X curved edge/straight edge without chips
- Ability to process non-conductive materials, such as CVD, MCD

EDM

100X-Chipping

100X-Chipping

Traditional EDM:

- Chips and cracks may occur at the cutting edge during processing, resulting in increased costs and longer working hours. In severe cases, the blade needs to be replaced;
- When processing large particles or polycrystalline diamond with poor conductivity, wire skipping will occur and machining cannot be continued.

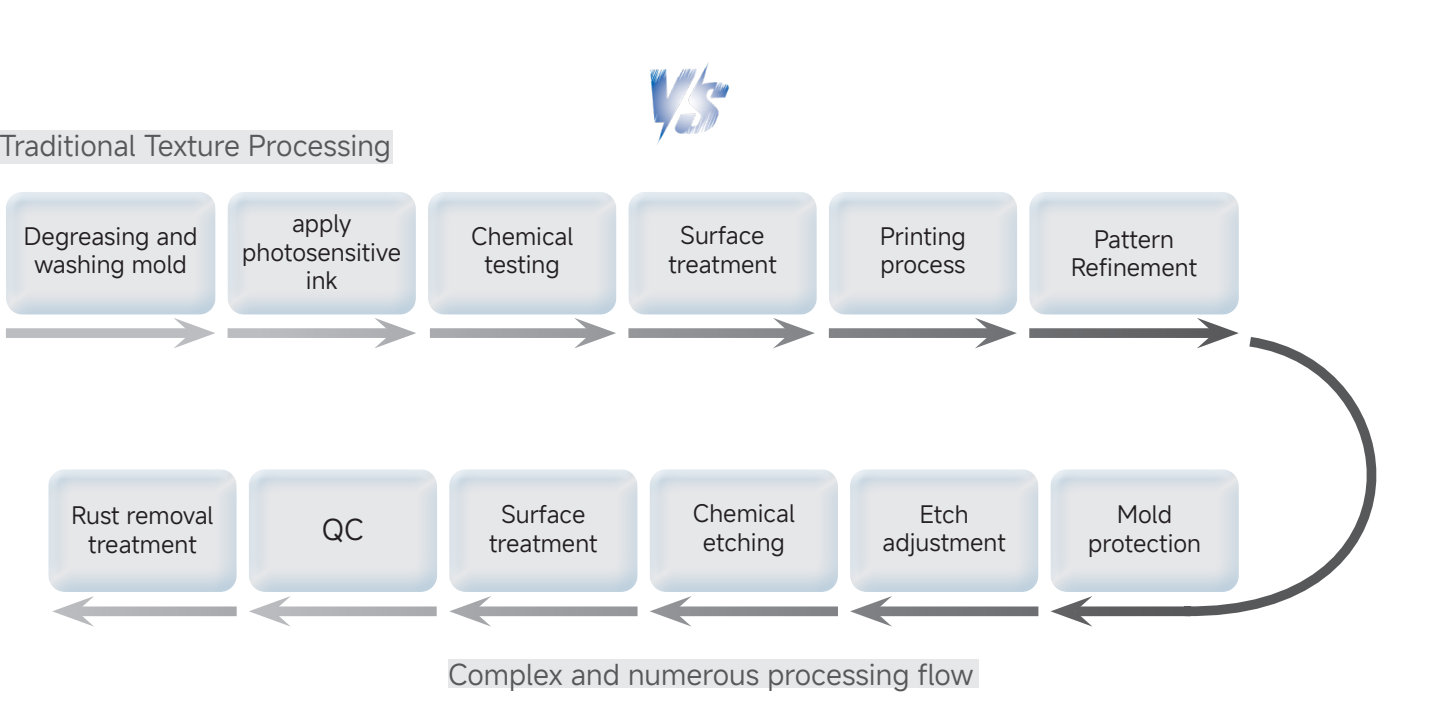
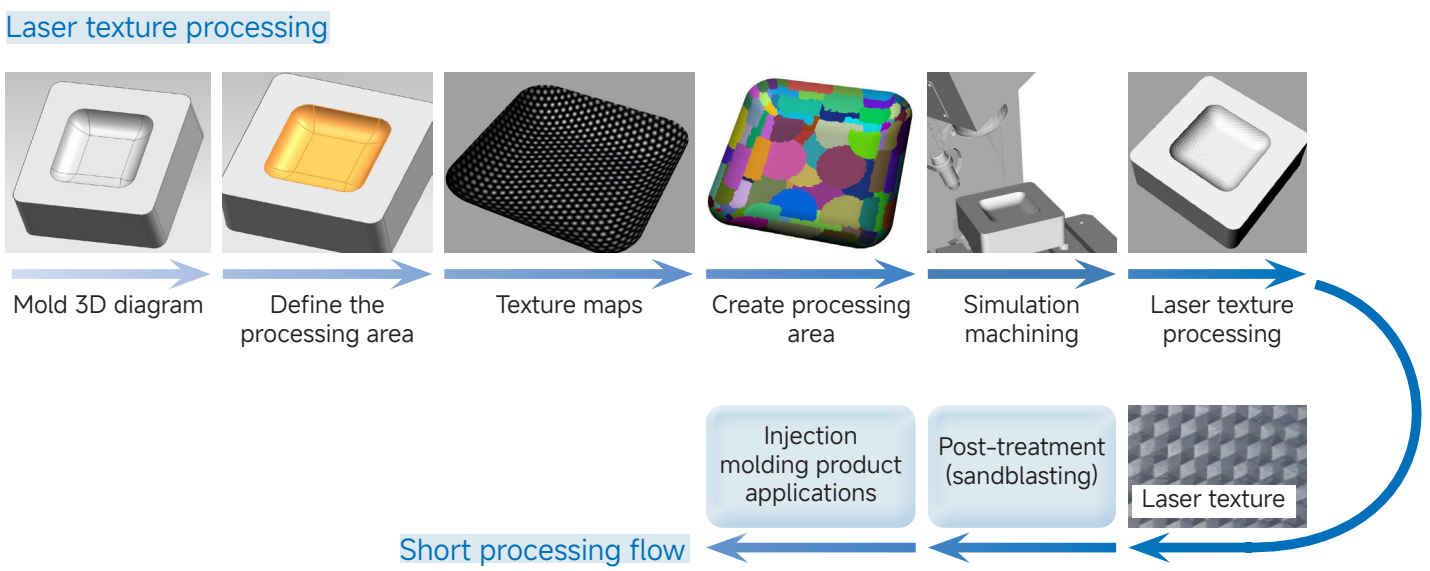
UP TO 200% FASTER THAN EDM
50% LOWER COSTS PER UNIT

High Speed Mode 3.0 VS. EDM

Mode	Speed (mm/min)
High Speed Mode 3.0	3.0
EDM	1.2

Micro3D L570V

5-Axis Mold Texture Laser Processing Machine Tool



1. Environmentally-friendly;

2. Improvement in accuracy and quality;

3. Enhancement of mold consistency;

4. Capable of processing 30 to 50 layers;
5. Capable of processing various materials;

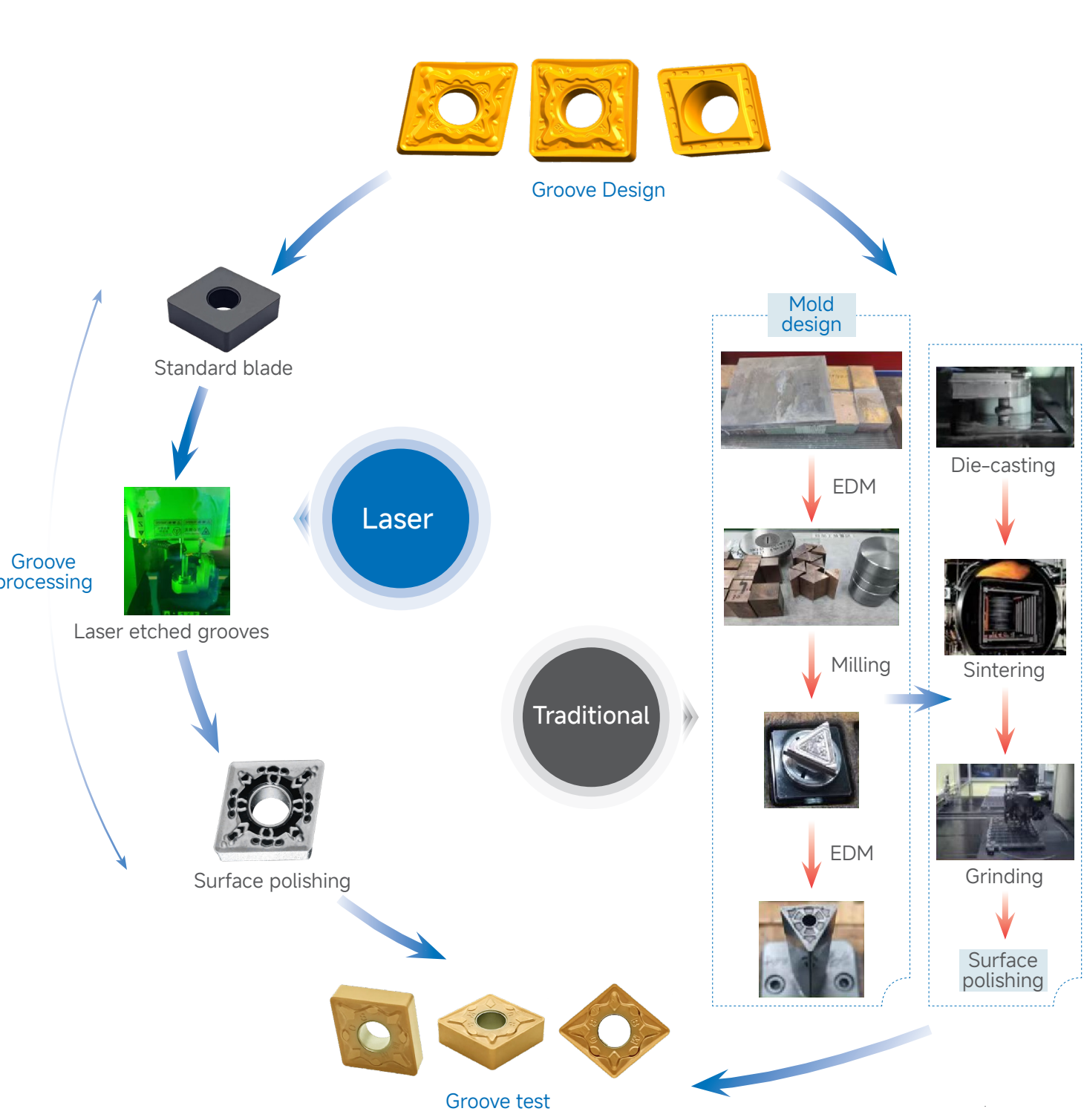
6. Capable of machining curved surfaces, inclined surfaces, and spherical surfaces;

7. Increase in processing efficiency.

Micro3D L530V

5-Axis Femtosecond Laser Processing Centre

Simplify your machining process, success in one set up.



www.opmte.com
www.opmtlaser.com

Full Laser Manufacturing

Guangdong Original Point Intelligent Technology Co.,Ltd.

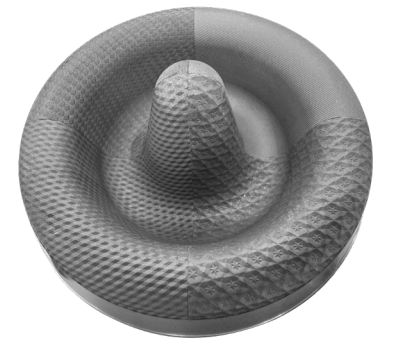
From origin to infinity

Adress: No.3 Lizhong Road, Danzao Town, Nanhai District, Foshan, Guangdong, China



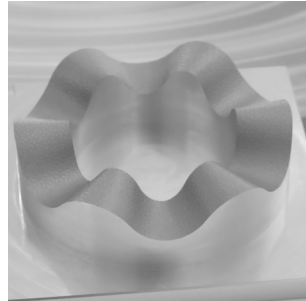
2025

3D surface high repeatability precision etching processing





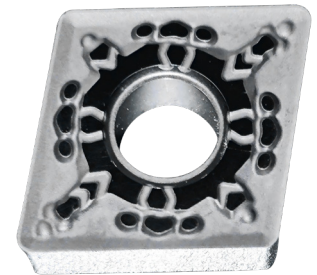
Texture Type	Geometric Texture
Material	Aluminum Alloy
Dimension	90 x 90 x 50 mm
Texture Depth	0.08 mm



Texture Type	Diamond 3D Texture
Material	Aluminum Alloy
Dimension	90 x 90 x 50 mm
Texture Depth	0.08 mm



Micron-level precision
Indexable blades microstructure laser machining

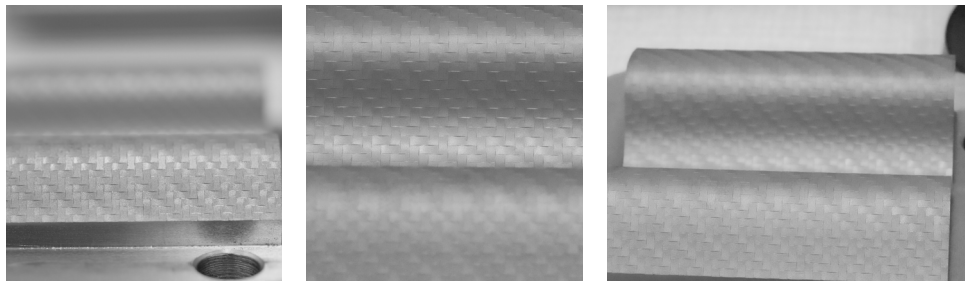


Carbide blade geometry

- Through layered material removal, 3D complex structure precision machining is achieved, with the minimum single layer material removal thickness < 1µm
- Used for carbide blades, small precision mold processing, etc.
- Machining depth and dimensional accuracy ≤ ±10µm
- Machining surface roughness Ra ≤ 0.3µm



- PCD chip breaker
- Edge passivation < 5µm
 - Edge serration 500X < 0.002
 - Processing accuracy ≤ ± 10µm
 - Processing surface roughness Ra ≤ 0.3µm



3D surface high repeatability precision etching processing

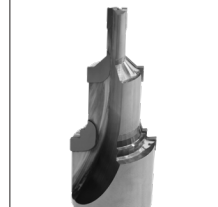
Texture Type	Carbon Fiber Texture
Material	NO.45 Steel
Dimension	90 x 90 x 30 mm
Texture Depth	0.08 mm

Integrated rough and fine laser processing of PCD cutting tools

Light 5X 40V Vertical 5-Axis Laser Machining Center
Light 5X 60V Vertical 5-Axis Laser Machining Center



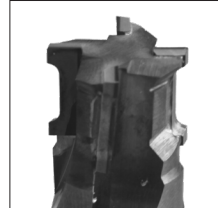
PCD Step Cutting Tools For Automobile	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.005 mm
Processing Time	2h43min18s
Run-out	0.005mm



PCD Step Reamer	
Workpieces Material	PCD
Passivation Value	<0.0045mm
Profile	<0.01 mm
Processing Time	97min15s
Run-out	0.002mm



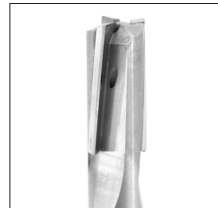
PCD Corn Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.01mm
Processing Time	64min21s
Run-out	0.005mm



PCD Molding Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.0045mm
Profile	<0.01 mm
Processing Time	48min29s
Run-out	0.002mm



PCD Four-edge Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Profile	±0.01 mm
Processing Time	31min18s
Run-out	0.005mm



PCD Internal Cooling Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.01 mm
Processing Time	47min50s
Run-out	0.004mm



PCD Ball Nose Molding Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Profile	<0.01 mm
Processing Time	8min58s
Run-out	0.002mm



PCD Molding Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.001 mm
Processing Time	72min23s
Run-out	0.005mm



PCD Face Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Profile	±0.005 mm
Processing Time	30min58s
Run-out	0.005mm



PCD Spiral Straight Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.01 mm
Processing Time	40min58s
Run-out	0.01mm



PCD Reamer	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.01 mm
Processing Time	33min58s
Run-out	0.005mm



PCD Drill Reamer	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.01 mm
Processing Time	25min21s
Run-out	0.002mm



PCD Molding Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.005 mm
Processing Time	55min40s
Run-out	0.005mm



PCD Internal Cooling Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.01 mm
Processing Time	33min03s
Run-out	0.004mm



PCD Ball Nose Milling Cutter	
Workpieces Material	PCD
Passivation Value	<0.005mm
Diameter Accuracy	±0.03 mm
Processing Time	24min16s
Run-out	0.002mm