

NOHZNIR

SHENZHEN JINZHOU PRECISION TECHNOLOGY CORP.

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INTERNATIONAL GROUP



# COMPANY PROFILE

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01

# Company overview

C O M P A N Y P R O F I L E

# 1.1 Company Overview

Establishment

1986, Shenzhen, China

Registered Capital

320M RMB

Total employees

1400

Production Capacity(per month)

Drill+Router=70 Million pcs

# 1.2 Facilities View



**Subsidiary in Kunshan**  
Plants & Business Center,  
East China



**Headquarter in Shenzhen**  
Operation Center  
R&D Center  
Plants & Business Center,  
South China



**Nanchang Branch**  
Plants & Business Center,  
Central China

# 1.3 Development History

1988

- Introduced PCB micro-drill production technique and equipment from Germany, annual production capacity reached 300 thousand pieces, entered PCB tools industry.

2004

- New plant, **Jinzhou Park** in Longgang was established and put into operation.
- Annual production capacity reached **20million** pieces.

2012

- Annual production capacity reached **180 million** pieces, sales ranked **3<sup>rd</sup>** in the world

2014

- Annual production capacity reached **220 million** pieces, sales ranked **2<sup>nd</sup>** in the world

2019

- Mass production of **0.01mm drills** .
- Annual production capacity reached **410 million** pieces, word **No.1** in market share.

2021

- Mass production of **0.01mm routers**.
- Revenue reached 1.16 billion.

# 1.4 Products



Main product: Tools for PCBs



Precision Cutting Tools



Precision Mould

# 1.5 Major honors

## ■ National Microdrill Champion Enterprises Award

Those who have focused on some market segments of manufacturing industry, possess international advanced production technology or craft, and more importantly, market share of their single product should be on the top list of global or national enterprise.

- **JINZHOU was awarded as the first batch of this award.**



## ■ National Science and Technology Progress Award

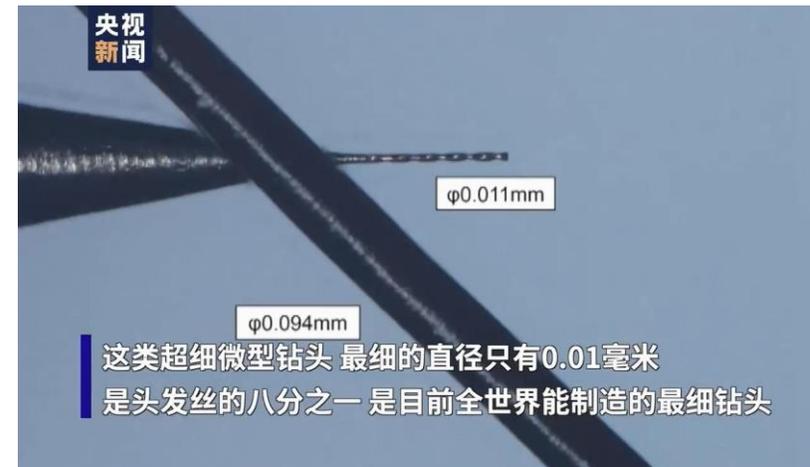
**“High-end printed circuit boards, high  
efficiency and high reliability,  
microfabrication technology and  
applications”**

Awarded Second Prize of National Science and  
Technology Progress Award

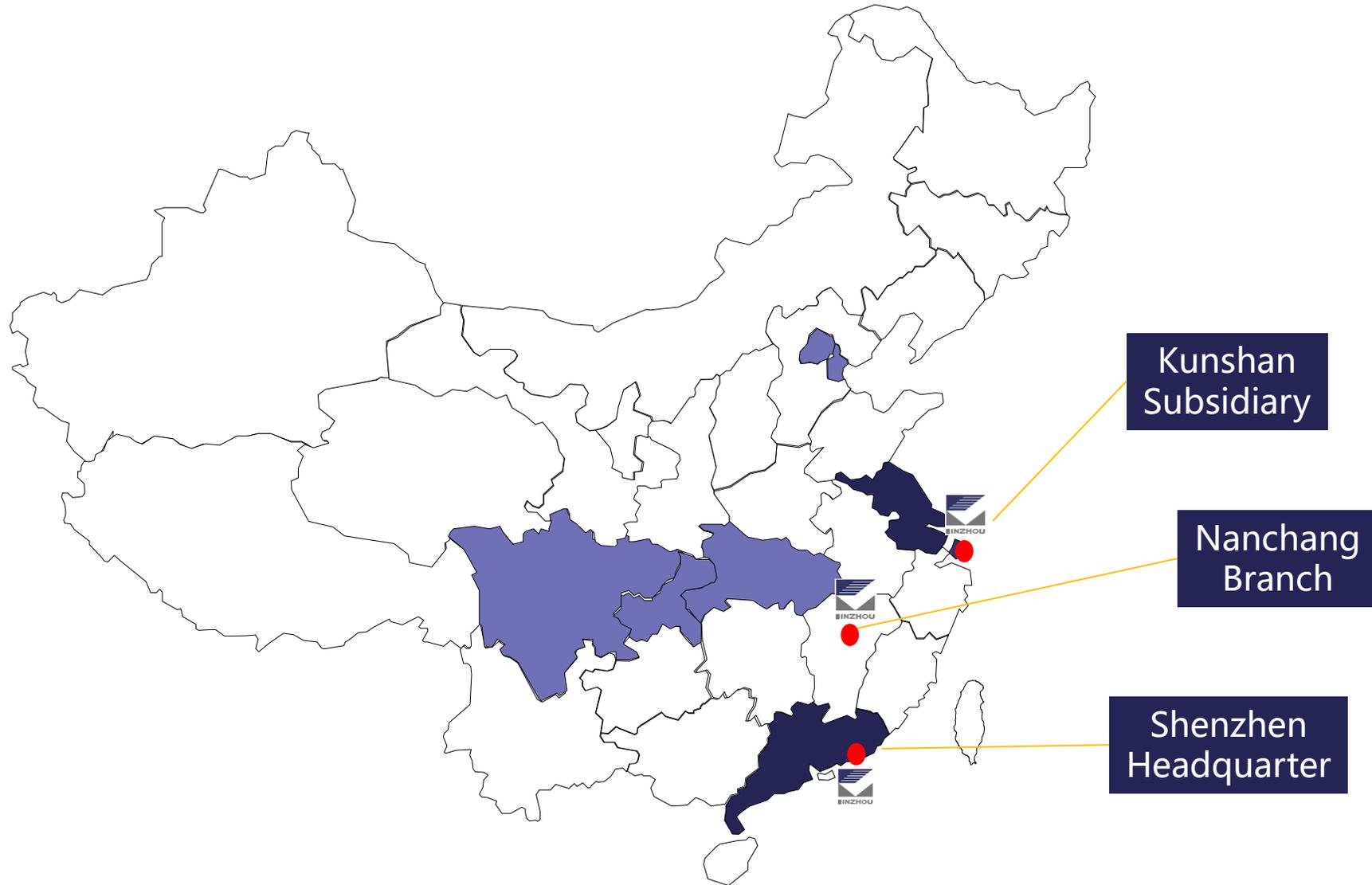
**in January 2020**



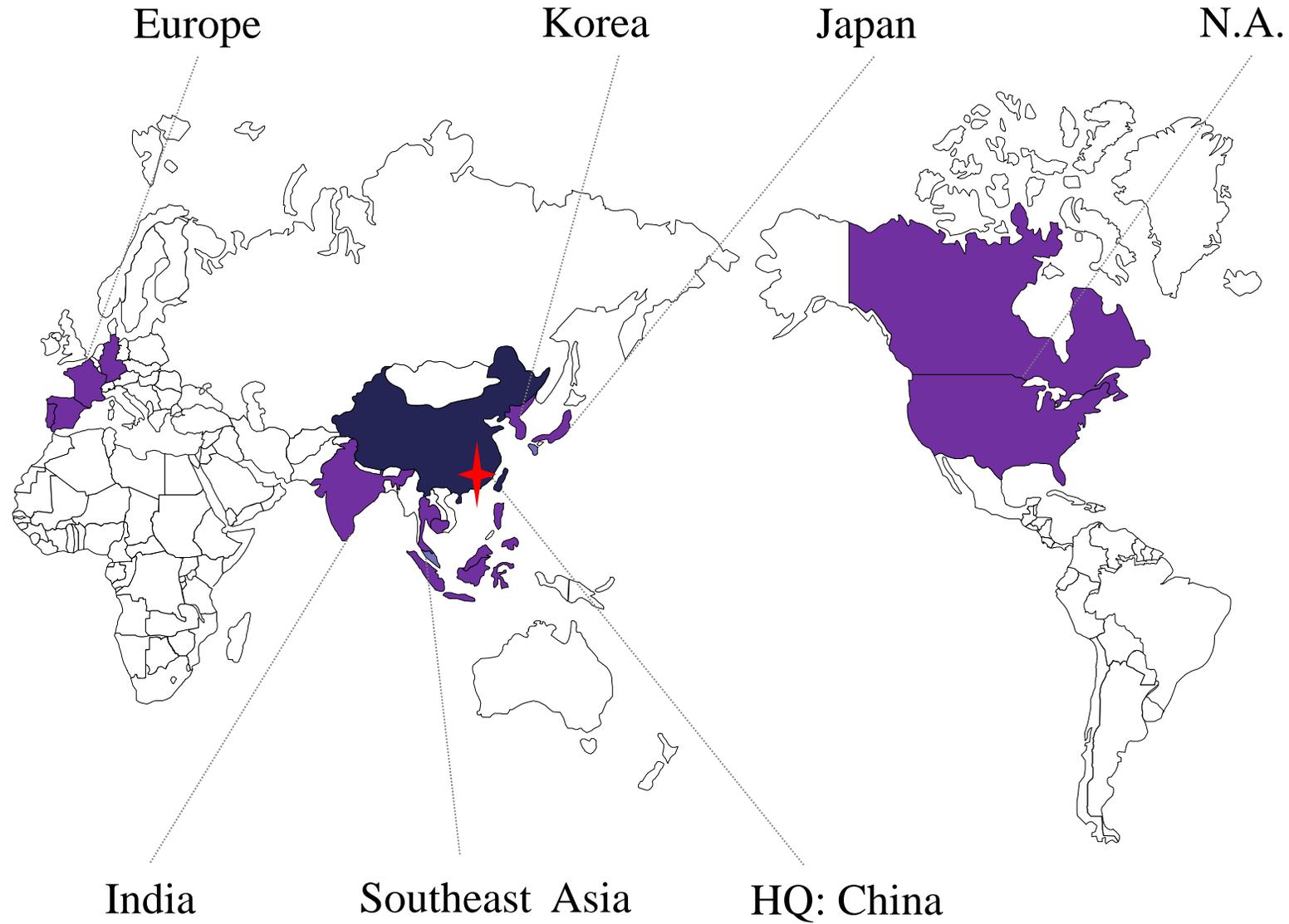
# 2021-2022, Jinzhou has been reported by CCTV for several times



# 1.6 Domestic Sales



# 1.7 Oversea Sales



# 02

## Research & Development

C O M P A N Y P R O F I L E



## 2.1 Technical Innovation

### T&I Strategy of JINZHOU

Focus on R&D of modern precision manufacturing, such as **precision processing, precision blanking, precision CNC** etc.

Persist on technical innovation, to win market with high-performance products, competitive costs and good service.

To create international famous brand in precision manufacturing, and keep domestic first and international first-class technical level in the industry.

## 2.3 world-class R&D equipment



HITACHI 35000krpm drilling machine



Cold field emission scanning microscope ( Attached EDS )



Super-high magnification microscope



HITACHI 8000krpm routing machine

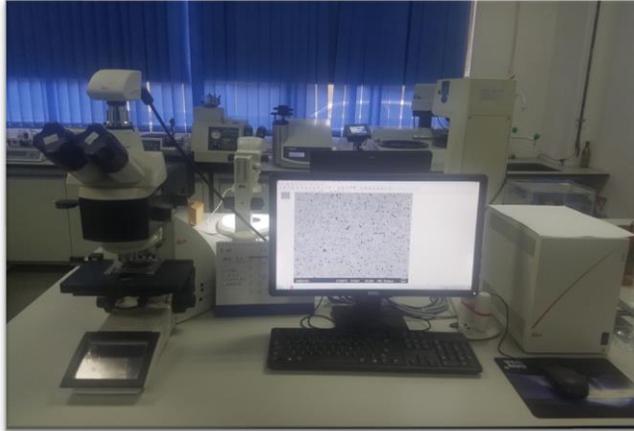


Drilling deflection measuring machine



Nanoindentation/Micro Scratch Tester

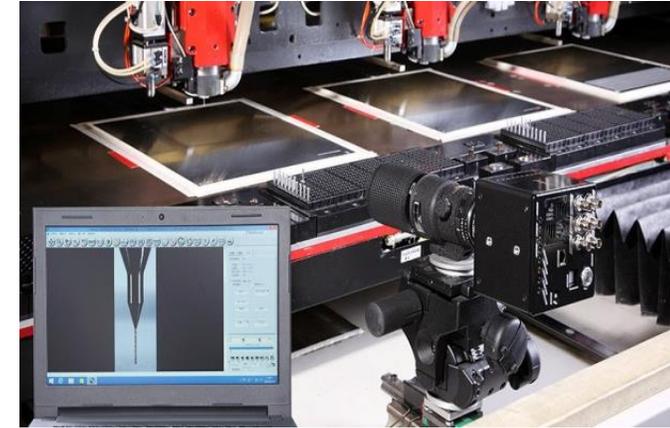
## 2.3 world-class R&D equipment



Material R&D platform



ZOLLER tool detector



High-speed camera



CMM  
(coordinate measuring machine)



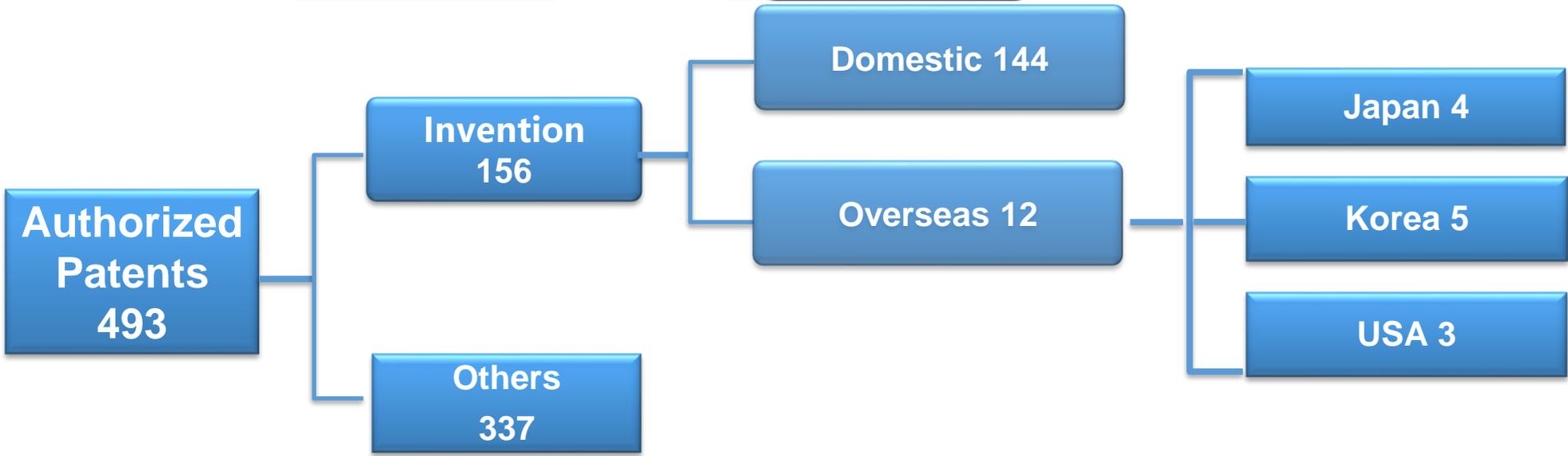
Drill tip wear  
measuring instrument



Thermal infrared  
imager

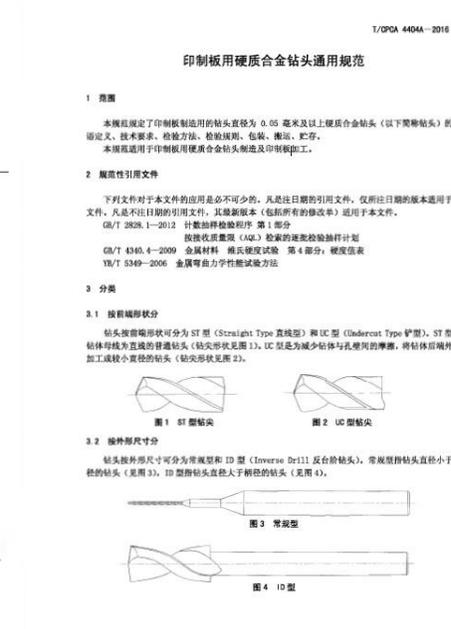
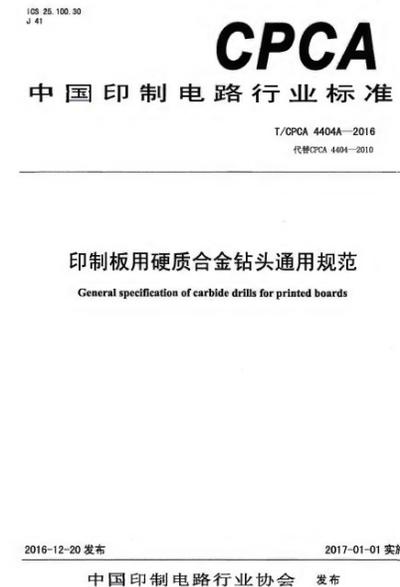
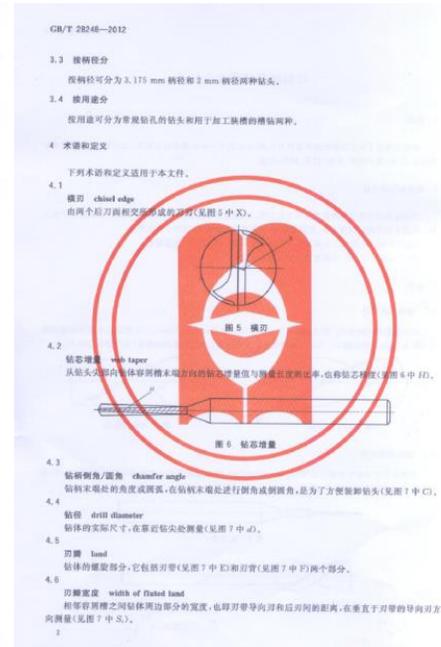
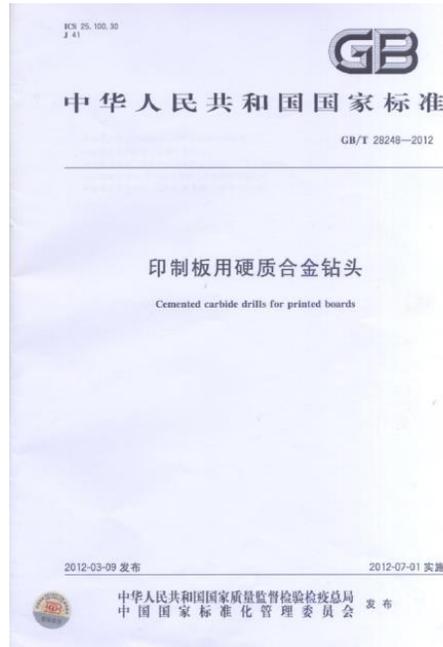
# 2.4 Patents

## 493 AUTHORIZED PATENTS



# 2.5 National standard-drill

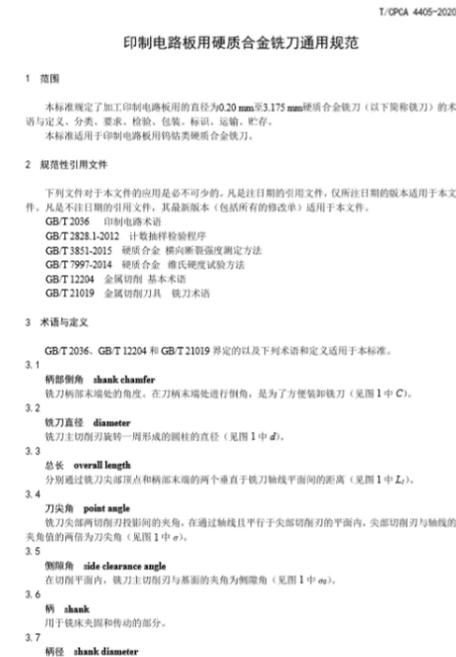
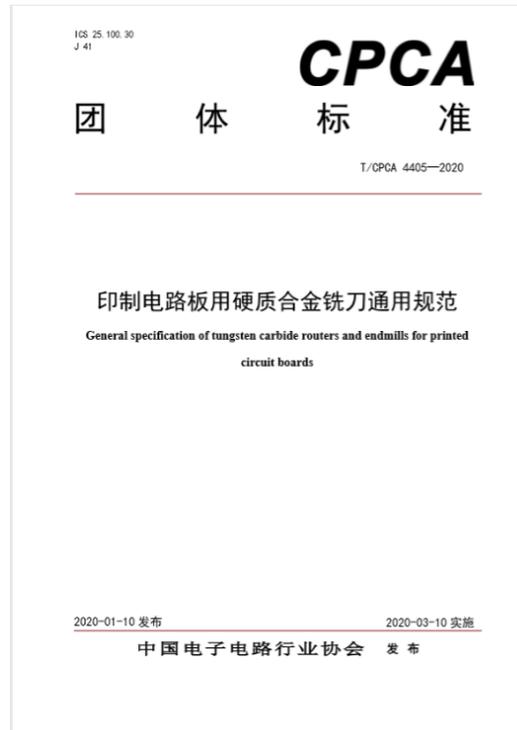
## national standard and industry standard



National standard  
*Cemented carbide drills for printed boards*

Industry standard  
*General specification for cemented carbide drills for printed boards*

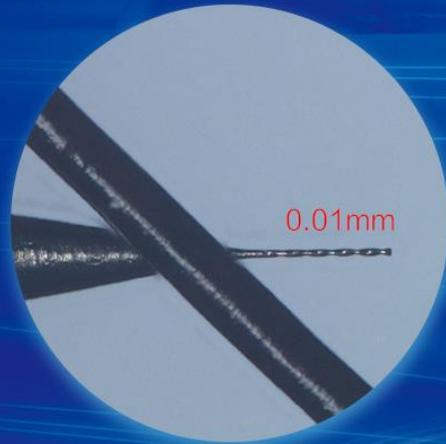
Jinzhou is the drafter of the national standard *Cemented carbide drills for printed boards*, which is also the industry standard and military standard.



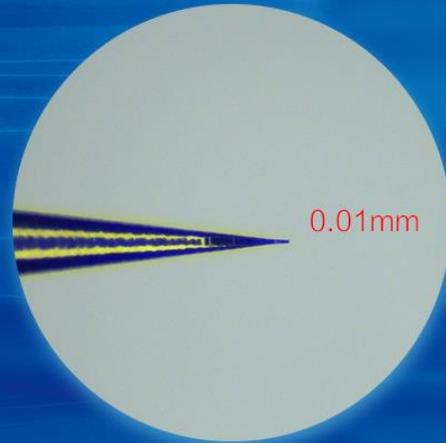
Jinzhou is the drafter of “General specification of tungsten carbide routers and endmills for printed circuit boards” .

## 2.6 0.01mm Ultra-fine micro tools

### 0.01mm Diameter Ultra-fine Micro Tool of Jinzhou (1/8 of adult hair)



**0.01**mm diameter  
ultra-fine drill



**0.01**mm diameter  
ultra-fine router



Milling out **56** Chinese characters  
on a grain of rice



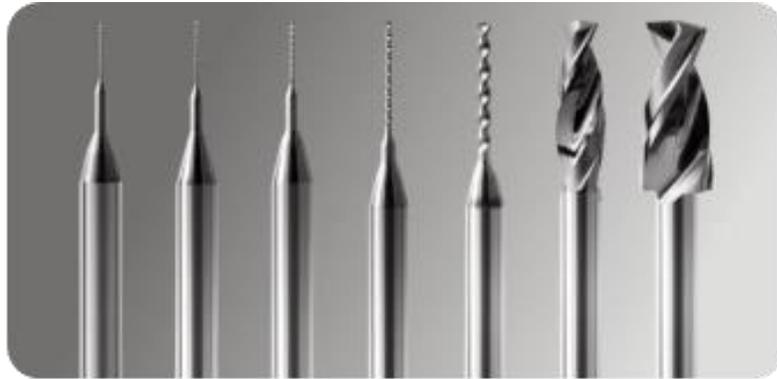
Milling out **7** letters  
on a hair

## 2.7 Outstanding Coated Technology



**Brought in the HiPIMS Technology, to make the coating performance leap!**

# 2.7 Outstanding Coated Technology



## 1、 **Wear Resistant Type** (Drills Only)

- Oversized coating thickness, super wear-resistant, extremely long life;
- Suitable for normal PCB, mid/high TG PCB, HF PCB
- Stack Up application, more than 2 times life.



## 2、 **Wear Resistant Type** Series(Routers only)

- Multilayer coating structure, which performs excellent toughness and wear resistance.
- Suitable for normal PCB, mid/high TG PCB, HF PCB
- Stack up application, 2-3 times higher tool life than normal products



## 3、 **Lubrication Type** Series(Drills and Routers)

- Ultra-low coefficient of friction, excellent chip removal performance
- Suitable for FPC, high-speed PCB, non-ferrous metal substrates, thick copper boards, etc.;
- Can improve the drill breakage rate and chip removal capability significantly.



## 4、 **SHD /MDC** Series(Drills and Routers)

- Nano-composite multi-layer diamond coating, super wear-resistant and high lubrication;
- Ceramic filler PCB, ceramic aluminum substrate, automotive PCB, communication PCB;
- Ultrl-small diamond micro drilling performance enhancement

## 2.8 Pursue for technical outstanding



- 1 Insists on **high input** (equipment including), R&D Investment Exceeds 5% of Operating Income;
- 2 **Specific technical innovation strategy**, “national first and first class around the word” oriented goal, built Technology Center in 2004
- 3 **Pursue for the perfection of process engineering**, the manufacturing cost of each drill bit subdivided to cents and the manufacturing time of each drill bits is accurate to seconds.

# 03

## Manufacture & Control

C O M P A N Y P R O F I L E



# 3.1 Manufacturing Equipment

Equipment for Cutting Tools manufacturing:

Can provide various drills and routers from  $\phi 0.2\text{mm}$  to  $\phi 30\text{mm}$ . Complex tools include single-flute end mill, step drill, straight fluted drill, DLC and diamond coated tools.

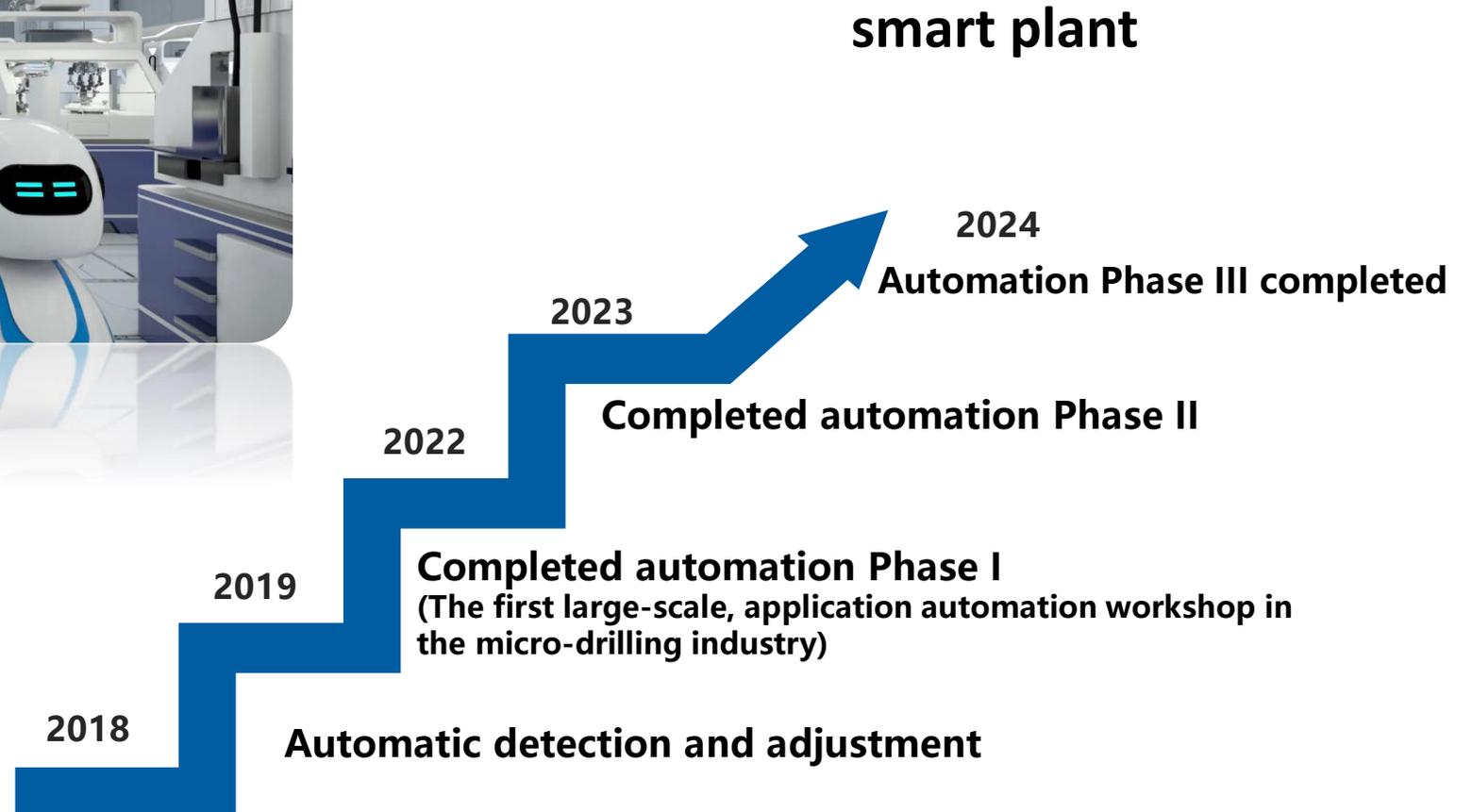


## 3.2 Quality Insurance —first-class detection equipment

**100% full inspection**



# 3.3 Intelligent production



# 3.4 Quality systems

**bsi.**  
Certificate of Registration

质量管理体系 - ISO 9001:2015

兹证明: 深圳市金洲精工科技股份有限公司  
91440300618335683X  
中国  
广东省  
深圳市  
龙岗区  
中心城龙城北路  
高科技工业园区  
邮编: 518116

**ISO 9001:**  
印制电路板 (PCB) 的钻孔服务。  
The design and manufacture of solid tungsten carbide mini boards (PCBs).  
The design and manufacture of solid tungsten carbide mini-drills.  
The provision of drill for printed circuit boards (PCB).

BSI代表: Chris Cheung, 亚太地区主

首次发证日期: 1999-07-26  
最新发证日期: 2021-05-28

BSI注册号: 659035  
IATF Numbers: 0377627

认证日期: 2020-12-14

最新发证日期: 2020-12-14

**bsi.**  
Certificate of Registration

质量管理体系 - IATF 16949:2016

兹证明: 深圳市金洲精工科技股份有限公司模具分公司 Shenzhen Corp. Me East Bulk Building 1 Changshu Commun Pingdi 5th Shenzhen Guangdong 518117 中国

**IATF 16949:2016**

BSI代表: 张明, 董事总经理, 英标管理体系认证

**bsi.**  
Certificate of Registration

环境管理体系 - ISO 14001:2015

兹证明: 深圳市金洲精工科技 Shenzhen Corp. Me East Bulk Building 1 Changshu Commun Pingdi 5th Shenzhen Guangdong 518117 中国

**ISO 14001:2015**

BSI代表: Chris Cheung, 亚太地区 合标风险主

**bsi.**  
Certificate of Registration

职业健康安全管理体系 - ISO 45001:2018

兹证明: 深圳市金洲精工科技 Shenzhen Jinzhou Preci Corp. Longgang Hi-Tech Park North Longcheng Road Central City Longgang Shenzhen Guangdong 518116 中国

**ISO 45001:2018**

BSI代表: Chris Cheung, 亚太地区 合标风险主

**SGS**

此为证书 CN23/0000996 译本

下述组织  
**深圳市金洲精工科技股份有限公司**

中国深圳市龙岗区中心城龙城北路高科技工业园区 (龙岗区五联一路7号) 的管理体系已经过审核, 并被证明符合下述要求  
**ISO 13485:2016**  
EN ISO 13485:2016  
所有相关的活动范围  
牙科有铸的设计和生

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