

SHENZHEN JINZHOU PRECISION TECHNOLOGY CORP.

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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

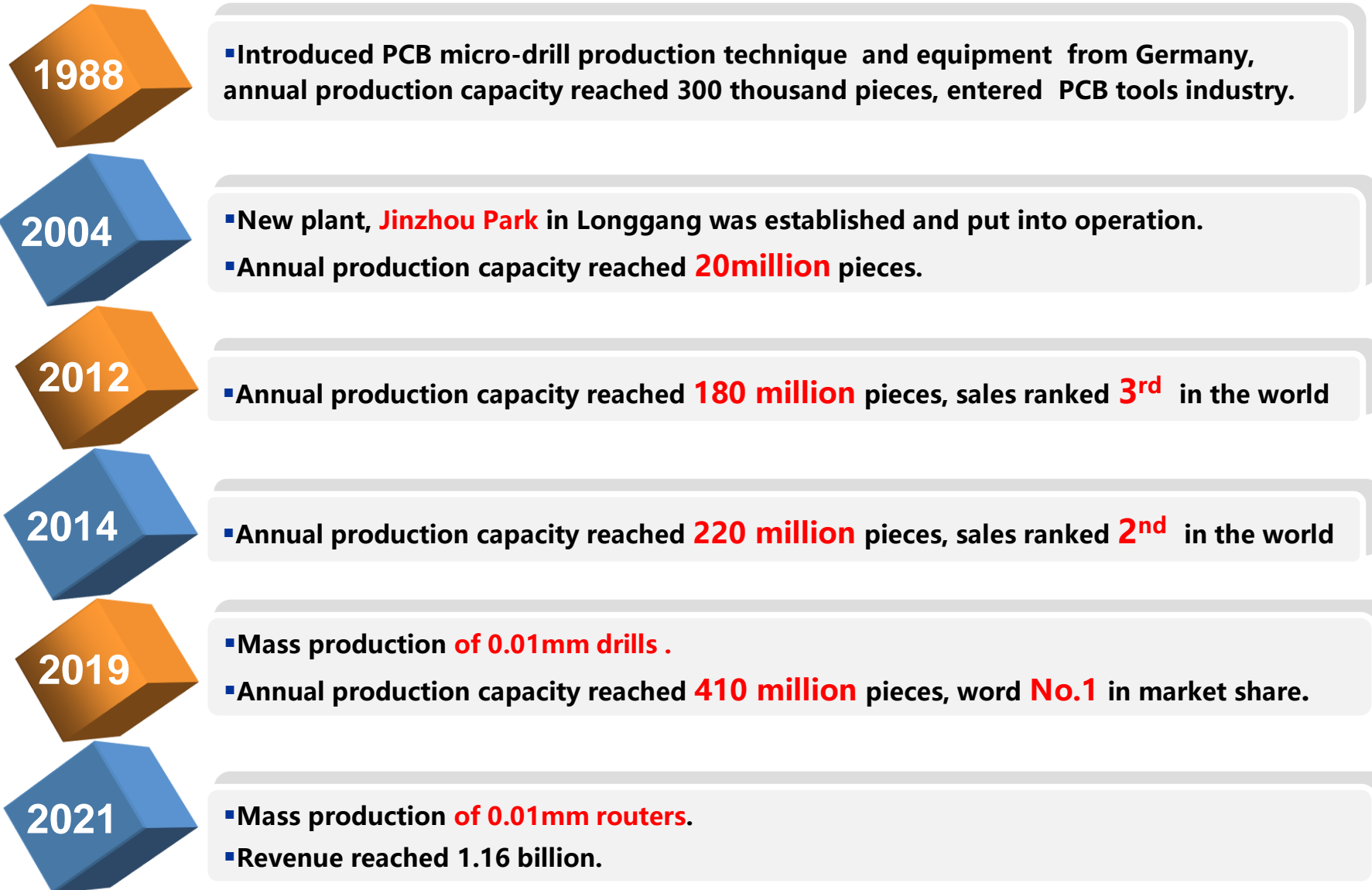


Headquarter in Shenzhen
Operation Center
R&D Center
Plants & Business Center,
South China



Nanchang Branch
Plants & Business Center,
Central China

1.3 Development History



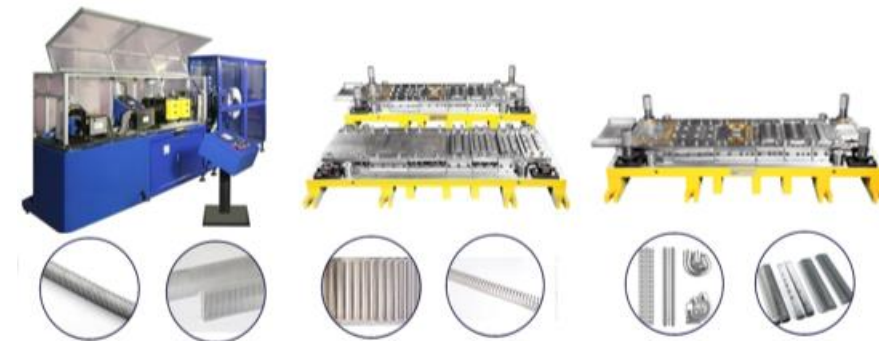
1.4 Products



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

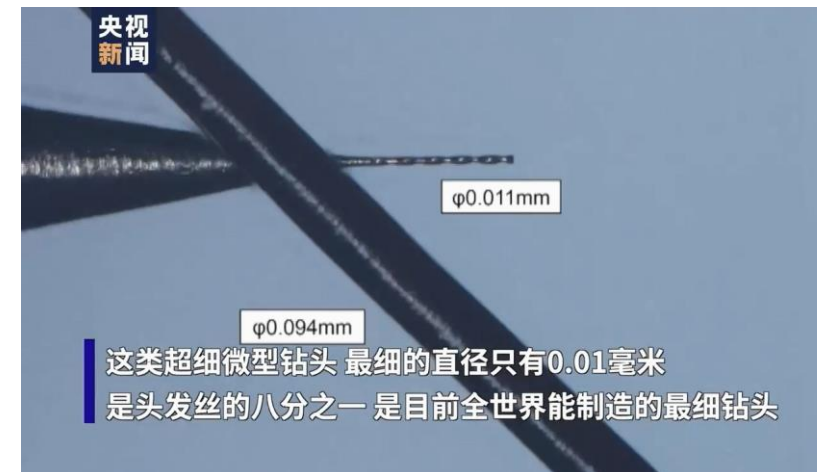
**“High-end printed circuit boards, high
efficiency and high reliability,
microfabrication technology and
applications”**

Awarded Second Prize of National Science and
Technology Progress Award

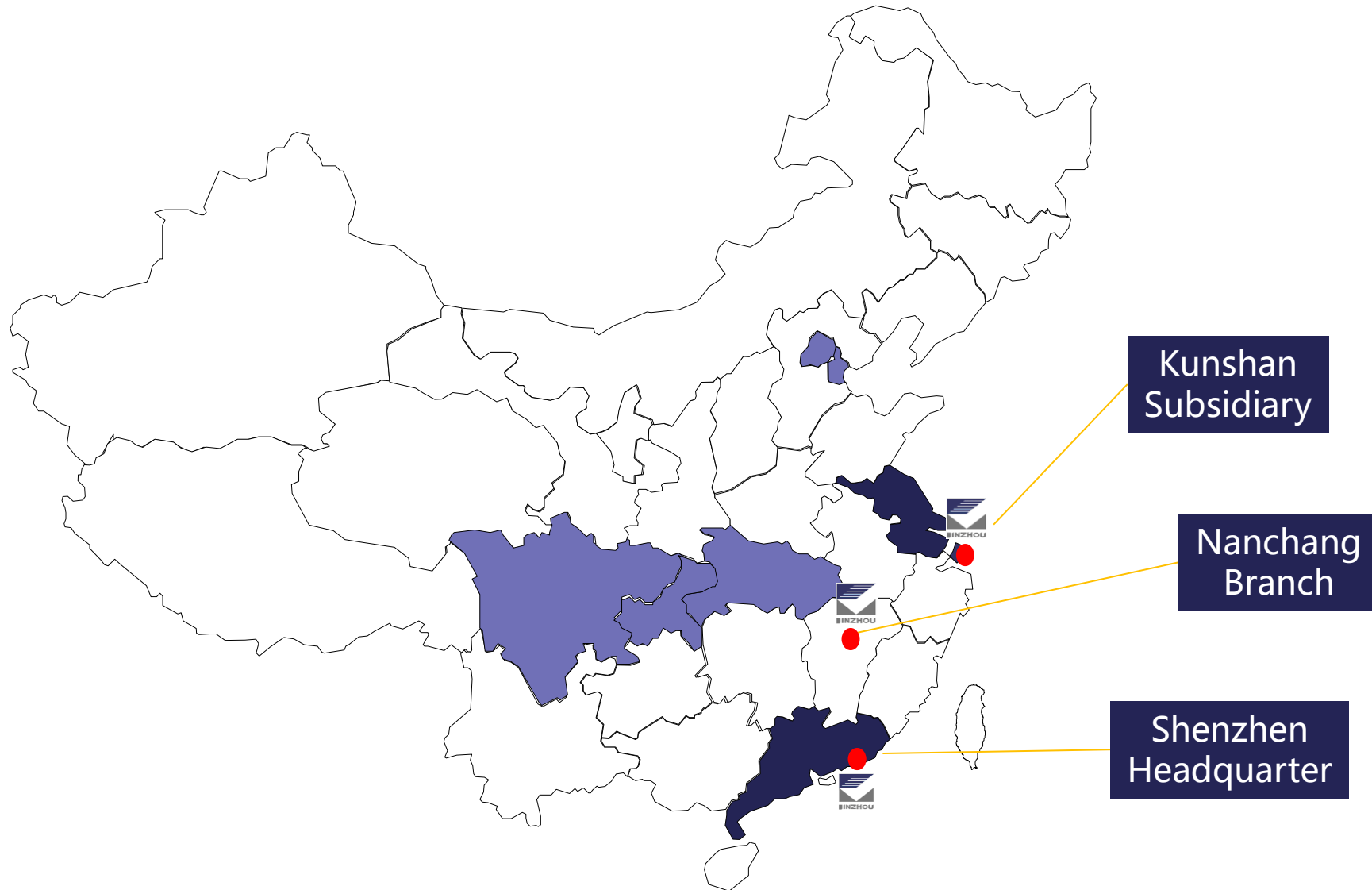
in January 2020



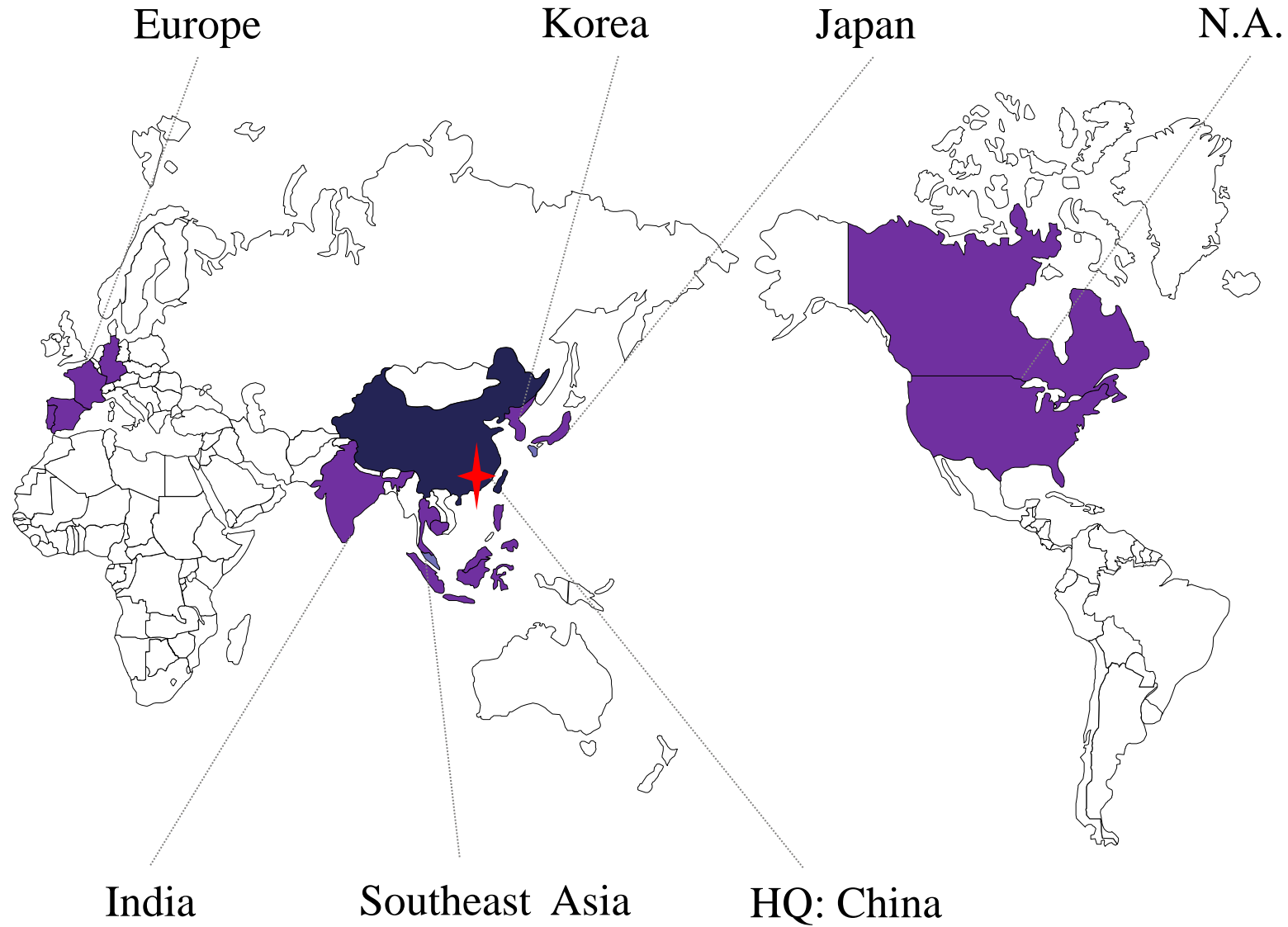
2021-2022, Jinzhou has been reported by CCTV for several times



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

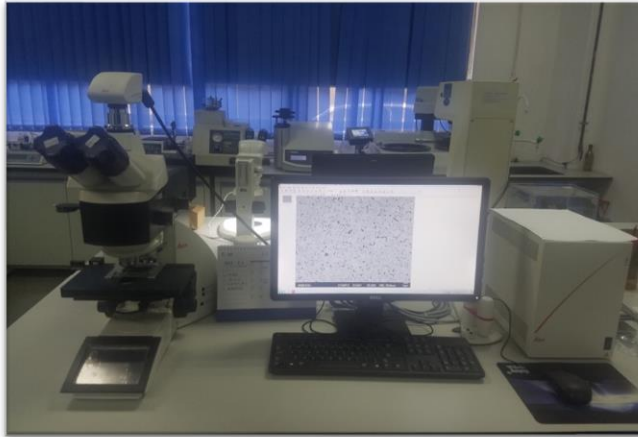


Drilling deflection measuring machine



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)



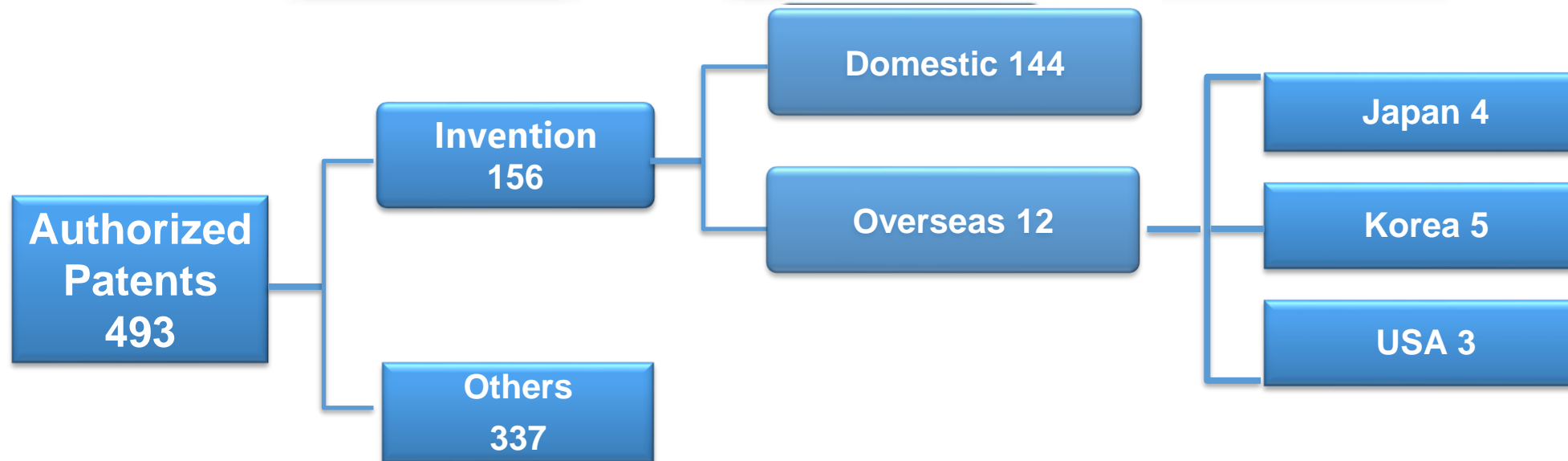
Drill tip wear
measuring instrument



Thermal infrared
imager

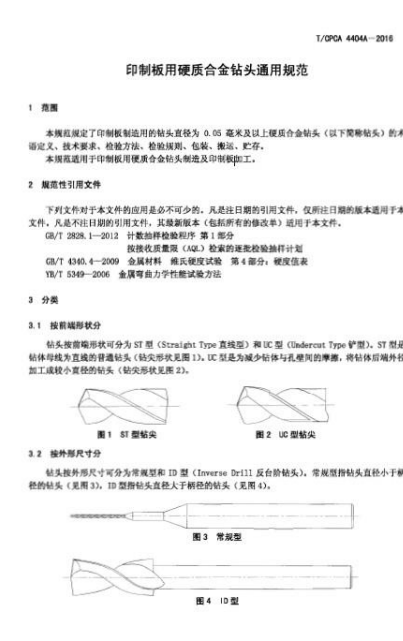
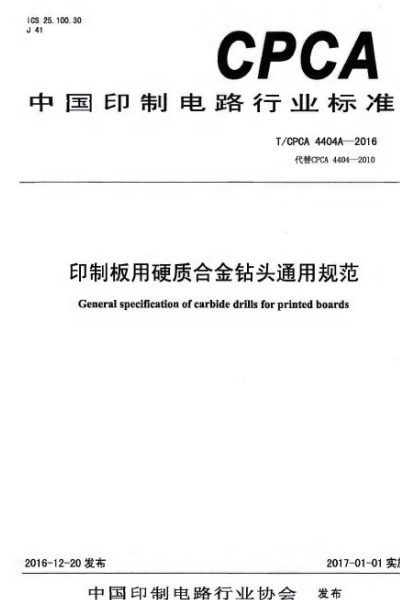
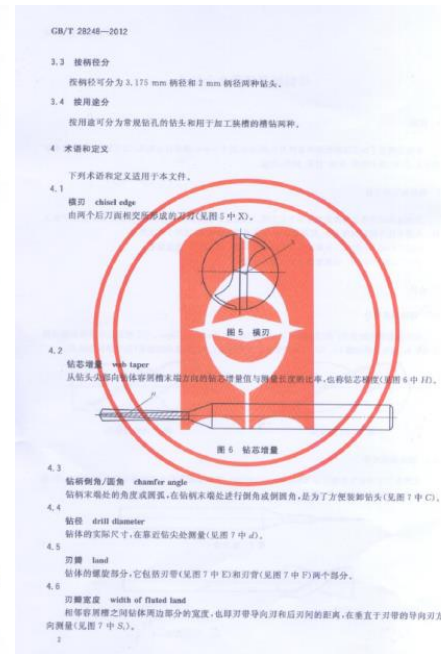
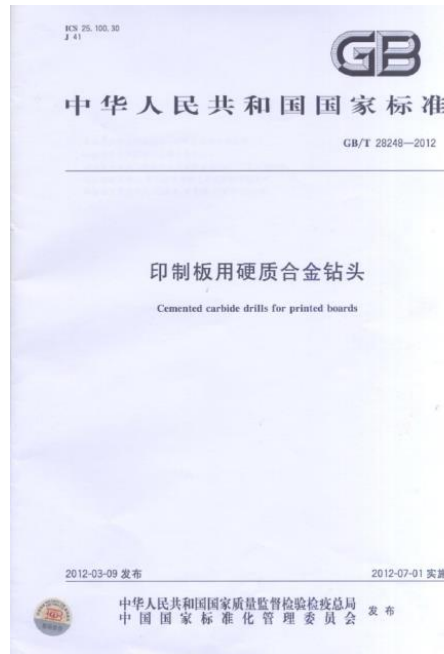
2.4 Patents

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.

Development of industry standards-router

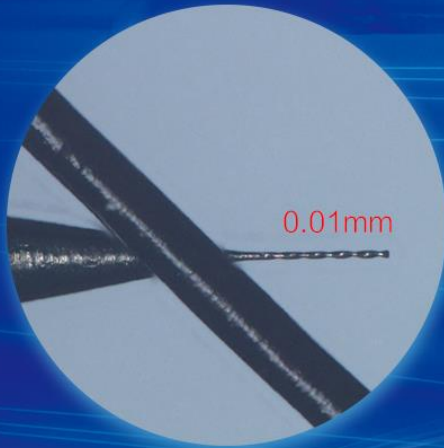


T/CPCA 4405-2020	
印制电路板用硬质合金铣刀通用规范	
1	范围
本标准规定了加工印制电路板用的直径为0.20 mm至3.175 mm硬质合金铣刀（以下简称铣刀）的术语与定义、分类、要求、检验、包装、标识、运输、贮存。	
本标准适用于印制电路板用钨钴类硬质合金铣刀。	
2	规范性引用文件
下列文件对于本文件的应用是必不可少的。凡是注日期的引用文件，仅所注日期的版本适用于本文件。凡是不注日期的引用文件，其最新版本（包括所有的修改单）适用于本文件。	
GB/T 2036 印制电路术语	
GB/T 2828.1-2012 计数抽样检验程序	
GB/T 3851-2015 硬质合金 横向断裂强度测定方法	
GB/T 7997-2014 硬质合金 维氏硬度试验方法	
GB/T 12204 金属切削 基本术语	
GB/T 21019 金属切削刀具 铣刀术语	
3	术语与定义
GB/T 2036、GB/T 12204 和 GB/T 21019 界定的以及下列术语和定义适用于本标准。	
3.1	柄部倒角 shank chamfer
铣刀柄部末端处的角度，在刀柄末端处进行倒角，是为了方便装卸铣刀（见图 1 中 C）。	
3.2	铣刀直径 diameter
铣刀主切削刃旋转一周形成的圆柱的直径（见图 1 中 d）。	
3.3	总长 overall length
分别通过铣刀头部顶点和柄部末端两个垂直于铣刀轴线平面间的距离（见图 1 中 L ₀ ）。	
3.4	刀尖角 point angle
铣刀头部两切削刃投影间的夹角，在通过轴线且平行于尖部切削刃的平面内，尖部切削刃与轴线的夹角的两倍为刀尖角（见图 1 中 α）。	
3.5	侧隙角 side clearance angle
在切削平面内，铣刀主切削刃与基面的夹角为侧隙角（见图 1 中 α _{ps} ）。	
3.6	柄 shank
用于机床夹固和传动的部分。	
3.7	柄径 shank diameter

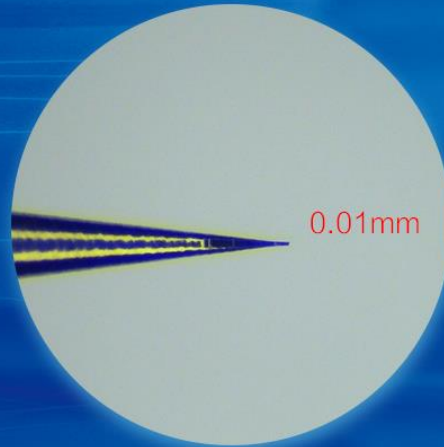
Jinzhou is the drafter of “General specification of tungsten carbide routers and endmills for printed circuit boards” .

2.6 0.01mm Ultra-fine micro tools

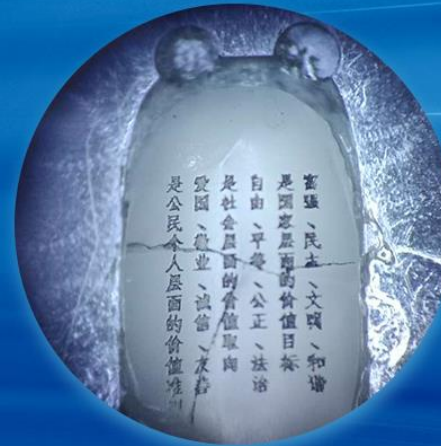
0.01mm Diameter Ultra-fine Micro Tool of Jinzhou (1/8 of adult hair)



0.01mm diameter
ultra-fine drill



0.01mm 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;
- Ultr-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

M a n u f a c t u r e & C o n t r o l

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

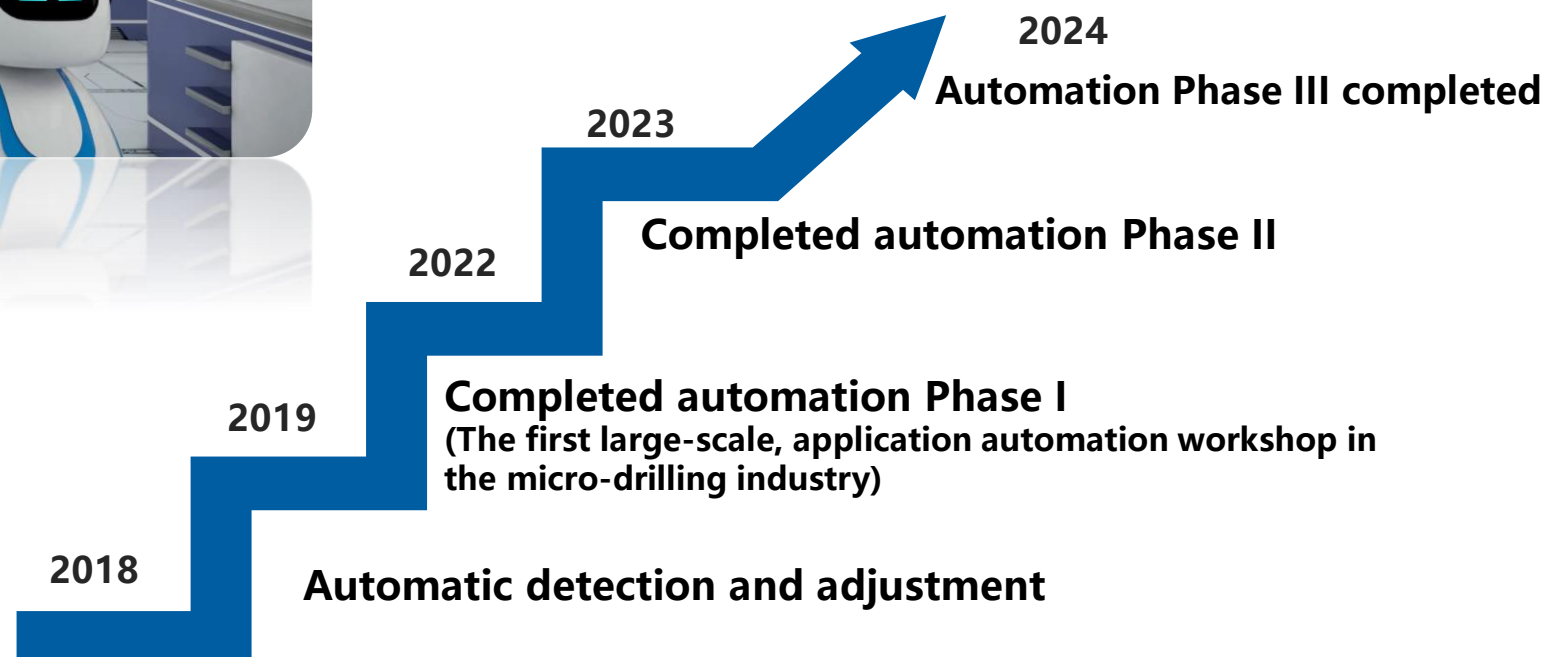
100% full inspection



3.3 Intelligent production



smart plant



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THANK YOU!

THANKS FOR WATCHING

