



CHT



The Introduction of CHT

- 1. Profile of CHT
- 2. Business Mode
- 3. Government Mode
- 4. Manufacture Capacity and Quality Assurance
- 5. Industry-University Cooperation and Our Main Partner
- **6. Corporate Culture**





1.1 Profile of CHT

Built in 2001, we went on public on December 22,2010 and have developed into a state high-tech enterprise.

We have 14 subsidiaries, located in South China, East China and Southeast Asia.

CHT specializes in precision mold manufacturing and injection molding, providing one-stop solution integrating research, design, manufacturing and after-sales service.

Awarded "Key Backbone Enterprise of Precision Injection Mold" by China Mold Industry Association, we are also the chairman level unit of Shenzhen Machinery Industry Association and Guangdong Mold Technology Promotion Association.

We will vigorously develop the course of precision medicine and great health, focusing on the fields of genetic engineering, human cell screening, virus typing and testing.

Our logo is developing into the world brand.





1.2 CHT Scale



















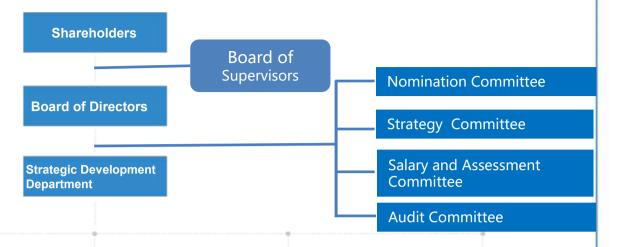








1.3 Organization



Headquarter

Shenzhen Changhong Technology Co., Ltd.

- Technology & Product R & D Center
- Market Development & Business
 Service Center
- Purchasing Management Center
- Production & Manufacture Center
- Financial Management Center

South China

Shenzhen
Boomingshing Medical
Device Co., Ltd.

Heyuan Changhong Precision Machinery Technology Co., Ltd

Shenzhen Changhong Photoelectric Technology Co., Ltd.

East China

Shanghai Changmei Precision Moulds Ltd.

Shuochang (Shanghai) Precision Plastic Molding Co., Ltd.

Shanghai Liyin Precision Medical Products Co.,Ltd

Wuhu Changhong
Technology Co., Ltd.

Changzhou Conceptech Moulding Technology Co Ltd

Lidacom Life Science Co., Ltd

Hong Kong

Changhong Technology (Hong Kong) Co., Ltd.

(trading & logistics)

Overseas

Changhong Technology (Vietnam) Co., Ltd.

Changhong Technology PHL Co.,ltd





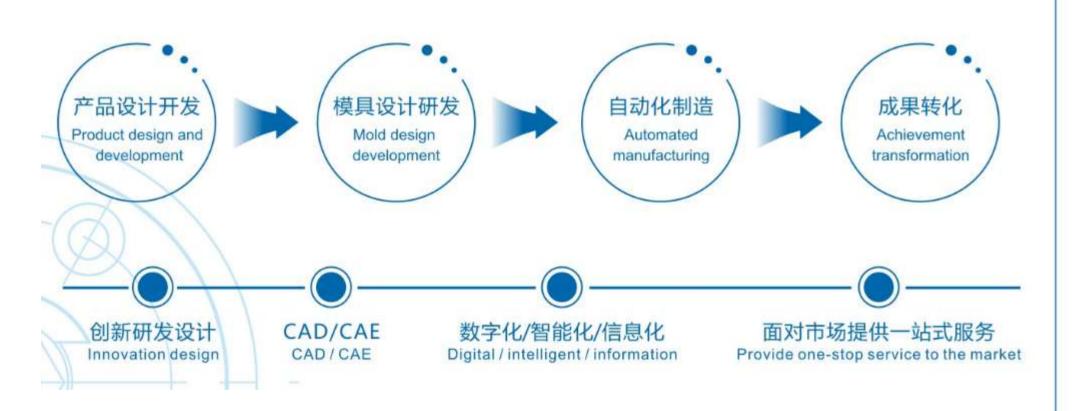
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2.1 Business Mode Provide one-stop service







2.2 Main Business



60% OA



10% **Automobile Industry**



15% Medical Industry



15% Consumable **Electronic Goods**





2.3 Office Automation Samples







2.4 Automobile Samples

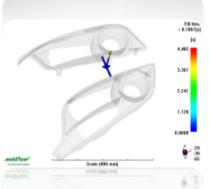


















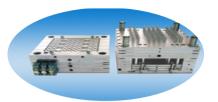






2.5 Precision Medical Consumables





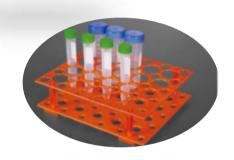






















2.6 Intelligent Electronics















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3.1 Standardization

Standardization advantages

- 1、优化设计方案 1, optimize the design of
- 2、缩短制造周期
- 2, shorten the manufacturing cycle of
- 3、提高制造精度
- 3. Improve the manufacturing accuracy of
- 4、提升产品质量
- 4, improve product quality









Mold manufacturing automation system



对检测环境、条件、 判定基准均制定了详尽的标准

Detection environment, conditions, measurement methods. The decision criteria have been developed in detail

制定设计标准及 标准件数据库

Standard part database

建立标准参数库及 标准加工工艺模板 Develop design criteria Establish standard parameter

database andStandard process template

- Design modularization: build 3D mold database
- Parts standardization : build component database
- **Automatic drawing system: computer** drawing









3.2 Design Modularization

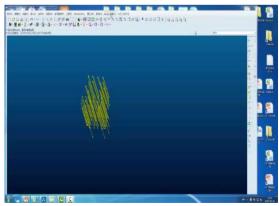
Design Software PTC EMX/AutoDrawing/NX OPEN

- ① EMX : Mold design software →Mold frame expert, automatic generation
- ② AutoDrawing : Automatic engineering drawing →One-click drawing
- ③ NX OPEN : Standard parts library → Standardization of mold parts

- PTC EMX



AutoDrawing



- NX OPEN







3.3 Process Digitalization

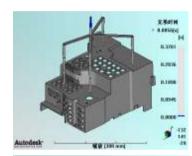


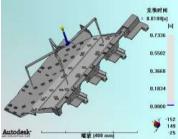




- Design-centered Digitalization
 - **□** Application of CAD/CAE/CAM/CAPP/PDM/ERP

- Process-centered Digitalization
 - ☐ Introduction of Robot Production Line
- Government-centered Digitalization
 - □ CIMS system guarantees integrated government.











3.4 Intelligent Processing



Our Robot Line was introduced from Germany in 2011, combining the application of CAD/CAE/CAM/CAPP/PDM/ERP.

It presents process-centered digital technology and can realize the programmed control, automatic identification and intelligent arrangement.

	Tradition	Robot Line
Technician	20 people	3 people
Efficiency	45%-55%	80%-95%
Machining Precision	0.010-0.015	0.003-0.005





3.5 High precision and quality Mold

- 1. Short L/T (4 weeks FOT)
- 2. Mature insert molding technology
- 3. High cavity (≤128 cavities)
- 4. High quality control
- 5. High Precision fabrication as follows
 - EDM accuracy 0.005mm
 - Grinding accuracy 0.002mm
 - WEDM accuracy 0.001mm
 - CNC accuracy 0.003mm















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4.1 Mold Manufacturing Capacity

Mold Manufacturing Technician (CHT Group)

Program Engineer	60
Mold Designer and Researcher	120
CNC Programmer	50
Machining and Measurement Technician	309
Total	539

Mold Manufacturing Technician (Headquarters)

Program Engineer	38
Mold Designer and Researcher	80
CNC Programmer	18
Machining and Measurement Technician	94
Total	230

Mold Volume (CHT Group)

30 - 200 ton	140 sets
200 - 350 ton	95 sets
Over 350 ton	40 sets
Month Mold Volume	275 sets

Mold Volume (Headquarters)

30 - 200 ton	55 sets
200 - 350 ton	45 sets
Over 350ton	20 sets
Month Mold Volume	120 sets





4.2 Talents and Technology Innovation

CHT attach great importance to personnel training.

We won the title of "Shenzhen Craftsman Training Demonstration Unit " and 13 employees were awarded "Shenzhen Top 100 Craftsman".

With a group of skilled technicians and experienced engineers, 15% of over 600 technicians have more than 30 years of working experience and 25% with over 20 years expertise.









4.3 Injection Molding Manufacturing Capacity

Tonnage	Headquarters	Vietnam	Philippines	BMS	Heyuan Changhong	Shanghai Changmei	TOTAL
30T-100T	20	12	6	1	1	22	62
110T-380T	34	55	23	18	22	35	188
450T-650T	20	30	8	2	8	4	71
700T-1000T	5	3	4	0	3	1	16
SUM	79	100	41	21	34	62	337









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4.4 Assembly Capacity of Secondary Processing Department



Facilities	QTY(set)
Pad printer	4
Oil spray/painting	2
Hot stamping machine	2
Ultrasonic welding machine	2
Assembly	10













4.5 Target Medical Production Capacity









为人类健康提供精准医疗解决方案和服务

- 4,000 sq. m.
- ISO class 8
- 100K particles per cubic meter

- 50 T- 450 T clamping force
- 50% capacity
- OEM & ODM projects considered

TONNAGE MACHINE		QTY	
50T-200T	JSW- Niigata Haitian	19	
200T- 450T	JSW- Toshiba- Haitian	2	







4.6 Quality Assurance

















IATF16949:2016 ISO45001:2018

ISO13485:2016

ISO14001:2015

ISO9001:2015

UL 认证





4.7 Environment Management

Shenzhen Changhong Technology Co., Ltd







4.8 International Certificate



















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5.1 Industry-University Cooperation

- > "Precision Injection Molding and Mold Manufacturing Industrialization Base" jointly with Huazhong University of Science and Technology.
- > "CHT-Guangdong University of Technology Mold Manufacturing Research and Development Center" jointly with Guangdong University of Technology.
- > Guangdong Precision Mold Engineering Technology Research Center jointly with Guangdong University of Technology.
- > Jointly carry out scientific and technological research projects with Shenzhen University.
- > It is the demonstration base for the combination of production, teaching and research of the Ministry of Science and Technology of Guangdong Province.
- Practice base for students in Guangdong University of Technology.











"Key Technology and Application of High Speed and Precision Machining for Brittle Carbon Parts " jointly with Guangdong **University of Technology.**

The project won the first prize of 2015 Guangdong Science and Technology Award, 2017 National Science and Technology **Progress Award.**

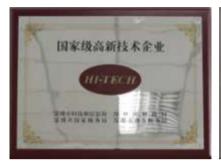
At present, CHT owns 6 invention patents, 70 utility model patents and 14 computer software copyrights.







5.3 Honorary Awards



































5.4 Cooperative Partner Partner in Medical Industry























Partner in Office Automation Industry



















Partner in Automobile Industry























Partner in Intelligent Electronic Industry















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Launch various skill competitions together with Human Resources Bureau of Pingshan District





CHT Volunteer Activity
Set up the CHT volunteer team, start from the little things around us and devote ourselves to environmental protection and mutual help.







Set up Changhong mutual fund to help our colleagues overcome difficulties.





















CHI Leader

Carry forward the past and open up the future. All staff work together to move forward under the leadership of senior leaders.







