

# SHYI CHANG

Manufacturer of Precision Gears ISO/TS 16949



POWER HEART  
HEART GEARS  
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*FROM 1966 TO PRESENT,  
WE NEVER STOP GROWING*

### SHYI CHANG ENTERPRISE CO., LTD. Manufacture of Precision Gears

- 2018** Dajia Youth Industrial Park production line start using.
- 2017** Imported the Taiwanese HURISE internal grinder, the Japanese MURATEC Twin Spindle CNC Chucker, and the German KAPP gear hobbing equipment.
- 2016** Imported the Japanese Mitsubishi gear shaping machine.
- 2015** Imported the German WENZEL gear tester.
- 2014** Imported the CNC Lathe Auto Feeding System.
- 2013** Obtained ISO/TS 16949:2009 certification.
- 2012** Imported the German LIEBHERR shaping machine and the highest precision can be reach to JIS 3. Imported the Taiwanese Lu Ren's blade sharpening machine and the Japanese Mitsubishi vertical gear hobbing machine.
- 2010** Change CHIN-CHAN Gear Wheel Machine Factory changed to CHIN-CHAN Gear Enterprise Co., Ltd.
- 2008** Imported Japanese SWIWA vertical gear hobbing equipment  
Imported the German KLINGELNBERG gear tester.
- 2007** Obtained ISO 9001: 2000 International Quality Certificaiton. Imported the German KOEPFER CNC gear hobbing processing equipment which make skiving process and the highest precision can be reach to JIS 3.
- 2006** Imported the Swiss REISHAUER gear grinding equipment and the highest precision can be reach to JIS 0.
- 2004** YU FONG gear grinding factory changed to SHYI CHANG Enterprise Co., Ltd.
- 1999** Established YU FONG gear grinding factory.
- 1998** Factory moved to Dongzhou Rd., Shencang dist., Taichung City
- 1972** Built new factory in Yuanhuan N. Rd Fengyuan Dist., Taichung City  
CHIN-CHAN Gear Wheel Machine Factory had been registered.
- 1966** Established LONG SING Wheel Machine Factory in Fu Chun village, Fengyuan Dist., Taichung City .





# Company Profile

MANUFACTURE HIGH QUALITY PRODUCTS,  
AND OPERATE WITH INTEGRITY

提升全面品質、追求顧客滿意

## ABOUT US

Shyi Chang Enterprise Co., Ltd founded in 2004, specialized in manufacturing wide range of precised gears and machining parts.

Gear grinding is our main force, producing with high quality and high accuracy. In order to promote product quality and enhance production efficiency we introduced gear grinding machine, gear hobbing machines and gear shapers from Switzerland, Germany and Japan

For quality management we set up strict quality inspection standards to fully control the quality.

our inspection equipment including German KLINGELNBERG gear testers, 3D CMM, roundness testing and profile projector and so on.

At the same time,the certification of ISO/TS 16949 quality management system to cultivate an outstanding technicl team, to formulate efficient process, and establish quality inspection system.

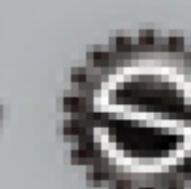
Since the establishment of the company, SHYI CHANG holds the spirt of excellent quality of products, and honest operation.

We use coutious attitude, avant-garde equipment and professional production process to meet customer request and make a good long term relationship.

Automobile Industry, Electric vehicle industry, speed reducer, Electronics Industry, Electrical tools, Machine Transmission Mechanism, Robotic Application, Aviation Mechanics,



Cerification of ISO/TS 16949 quality management system .





## Production Process

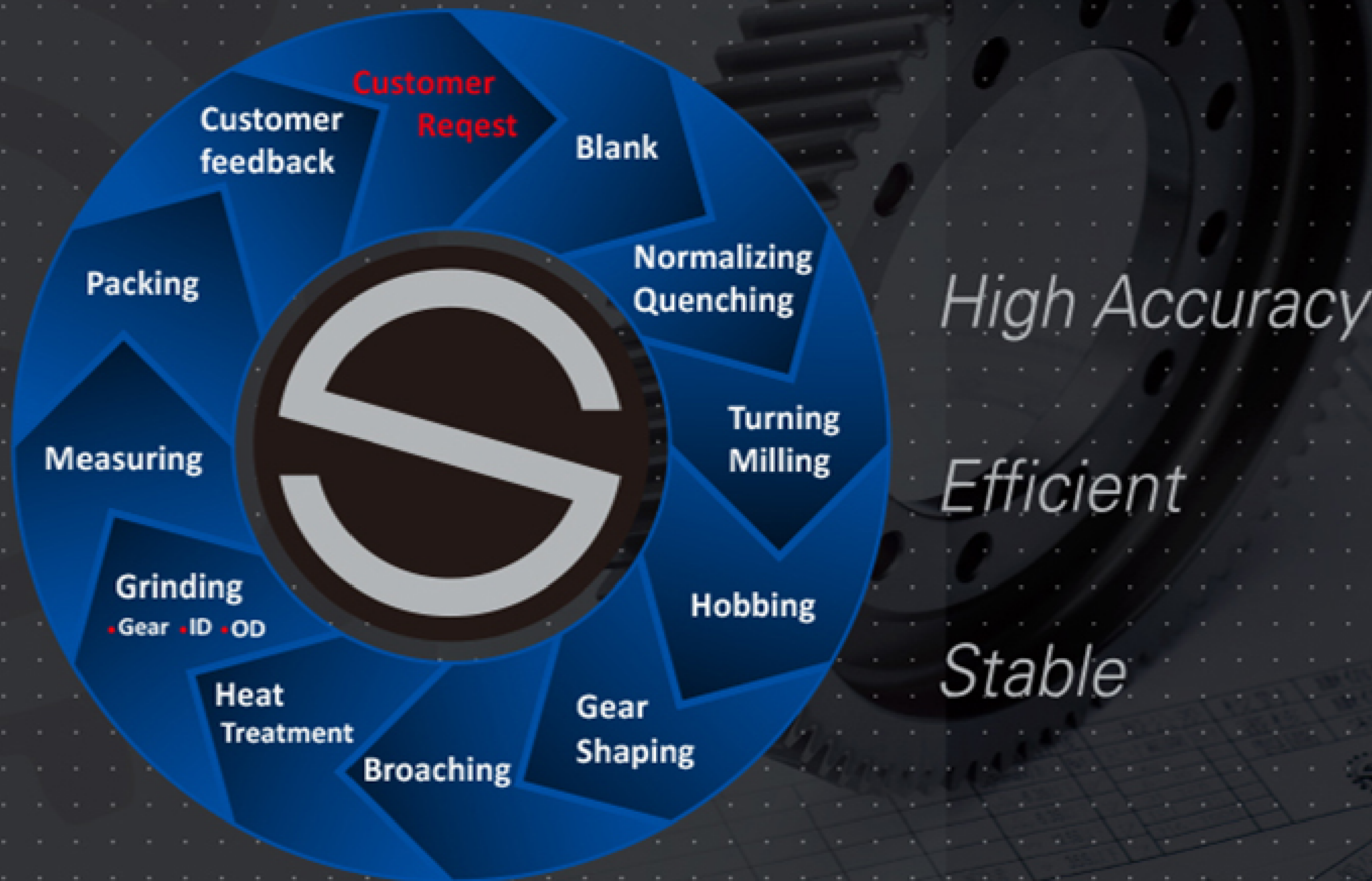
TO UPGRADE TOTAL QUALITY LEVEL,  
COMMITTED TO CUSTOMER SATISFACTION

生產製程流程



## Research And Development

產品研究・設計開發



### STRATEGIC PLANNING:

We go through APQP and Co-ordinate production process for customer lean planning.

### PROJECT SERVICES:

Provide our team service for customer request, plan integration management structure, which makes progress and quality of accurate in place.

### DESIGN STRENGTH:

We have professional engineering team, provide from development to production, perfect risk assessment, and perfect process design.

### PROJECT EXECUTION:

Our production main point is using Process-oriented system to meet customer technical specifications and requirements.





# HOBGING

Brand new Hobbing machine with fully automatic parts feeding systems from German and Japan. The highly automated production lines make consistent quality and more efficient production possibilities. In addition, skiving is available to upgrade the gear accuracy.

# H O B B I N G

Accuracy  
capability

JIS 3  
AGMA 10  
DIN 7

Process  
capability

Max. OD 800mm  
Max. Modulus M7



# SHAPING

This gear shaper is capable of machining helical gears. It employs electronic bushing without need of the use of expensive mechanical bushing, which leads to machining cost saving, upgraded production efficiency.

Accuracy  
capability

JIS 3  
AGMA 10  
DIN 7

Process  
capability

Max. OD 320mm  
Max. Modulus M8





# GEAR GRINDING

To enhance gear grinding accuracy, high gear matching efficiency, reduce vibration and minimize noise.

The surface of roughness reach to Ra 0.5  
custom-diamond dresser, make gear profile and any variety shape optimize.

# GEAR GRINDING

Accuracy  
capability

JIS 0  
AGMA 13  
DIN 4

Process  
capability

Max. OD 400mm  
Max. Modulus M8





# Quality Control 品質控制

For high quality request we set up strict quality inspection standards, high up production yield rate, imported high accuracy inspection equipment. Completely measurement record, self inspection, IPQC and 100% full-inspection in every process.





# Plant Equipment

INVEST IN WORLD-CLASS EQUIPMENT  
TO OFFER YOU HIGH QUALITY PRODUCTS

世界頂級設備、成就齒輪工藝



## INSPECTION EQUIPMENT

Equipment	Brand	Model	Country
Gear tester	Klingelnberg	P26 P40	Germany
	Wenzel	WGT400	Germany
	Osaka Seimitsukikai	CLP-35 CLP-65	Japan
Height Gauge	Mahr	817 CLM	Germany
CMM	TESA	Micro-hite 3D Dce	Switzerland
Projector	Baty	R400	England
Surface Roughness Tester	Hommel	T500	Germany
Rockwell Hardness Tester	Futute-tech	FR-3e	Japan
Roundness Instrument	Hommel	F1000	Germany
Profilometer	Tokyo Seimitsu	1600G-12	Japan
2.5D measuring instrumen	NAN JIE	AF3020	Taiwan

## PRODUCTION EQUIPMENT

Equipment	Brand	Model	Country
Gear Grinding	Reishauer	RZ260 (CNC) RZ400 (CNC) RZ BASIC (CNC)	Switzerland
	KAPP NILES	KX260 TWIN	Germany
	Koepfer	KP-200 (CNC)	Germany
Gear Hobbing machine	Mitsubishi	GE20A	Japan
	Seiwa	SX-15 (CNC) SX-30 (CNC)	Japan
	Liebherr	LSE300	Germany
Gear Shaper	Mitsubishi	ST40(CNC)	Japan
	Tianjin	YK5115 YK5132	China
	MURATEC	MW120	Japan
CNC Lathe	Takisawa	HT-110	Taiwan
	Victor Taichung	VturnII-20	Taiwan
CNC Machining Center	Yeong Chin	MV-106A	Taiwan
	HURISE	S10 S10-F	Taiwan
CNC Universal Circular Grinder	Hsiang Ying	JIM-IG-150 CNC-180-IGF	Taiwan
	JIM	JG3	Taiwan
CNC OD Grinder	Hsiang ying	JCG30-100	Taiwan
CNC Surface Grinder	Dowell	HR-600And HR-400And	Taiwan

