




非标定制齿轮及传动零部件  
的领先制造商


+

CHINA GEARS & TRANSMISSION COMPONENTS MANUFACTURER  
OEM SOLUTION PROVIDER

**SHANGHAI BELON MACHINERY CO.,LTD**  
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## **BELON GEAR** **—MAKE GEARS *BE-LON* GER!**

Shanghai Belon Machinery Co.,Ltd is a leading one-stop solution enterprise dedicated to providing various high-precision gear transmission components, including Cylindrical gears, Bevel gears, Worm gears and types of Shafts.

The history of Belon could be traced back to year 2010, while the founders started their journey of bevel gear manufacturing. With a decade-long commitment to quality and service, focusing on innovation, Belon achieved a milestone in 2021 by establishing an office in Shanghai ,in order to provide our worldwide customers with a more comprehensive range of gear types and sizes through robust supply chain management capabilities in China.

The success of Belon is measured by the success of our customers .We are constantly learning, improving and optimizing to meet and beyond your expectations for a long term.





# CYLINDRICAL GEARS

## 圆柱齿轮

- ※ SPUR GEAR
- ※ HELICAL GEAR
- ※ INTERNAL GEAR
- ※ HERRINGBONE GEAR
- ※ PLANETARY GEAR SET
- ※ POWDER METALLURGY GEAR

### ○ Cylindrical gears | 圆柱齿轮

Pics	Types	Supply Status	Module(M)	Diameters(mm)	Accuracy(DIN)
	Spur Gears	Fine Hobbing	M0.3-M6.0	Φ10~Φ400	DIN5-6
		Power Skiving	M0.3-M6.0	Φ10~Φ600	DIN5-6
		Hobbing+Shaving	M0.3-M8.0	Φ10~Φ800	DIN7-8
		Hobbing+Grinding	M0.5-M25	Φ10~Φ2500	DIN5-6
		Milling +Grinding	M3.0-M30	Φ50~Φ2500	DIN5-6
		5 Axis Machining	M35 Max.	Φ2500 Max.	DIN3-6
		Rough Hobbing/Milling	M35 Max.	Φ18000 Max	DIN8-9
	Helical Gears	Fine Hobbing	M0.3-M6.0	Φ10~Φ400	DIN5-6
		Power Skiving	M0.3-M6.0	Φ10~Φ600	DIN5-6
		Hobbing+Shaving	M0.3-M8.0	Φ10~Φ800	DIN7-8
		Hobbing+Grinding	M0.5-M25	Φ10~Φ2500	DIN5-6
		Milling +Grinding	M3.0-M30	Φ50~Φ2500	DIN5-6
		5 Axis Machining	M35 Max.	Φ2500 Max.	DIN3-6
		Rough Hobbing/Milling	M35 Max.	Φ18000 Max	DIN8-9
	Herringbone Gears	Hobbing+Grinding	M3.0-M25	Φ10~Φ2500	DIN5-6
		Milling +Grinding	M3.0-M30	Φ50~Φ2500	DIN5-6
		5 Axis Machining	M35 Max.	Φ2500 Max.	DIN3-6
		Rough Hobbing/Milling	M35 Max.	Φ18000 Max	DIN8-9
	Internal Gears	Broaching	M0.3-M3.0	Φ10~Φ400	DIN6-7
		Power Skiving	M0.3-M6.0	Φ10~Φ600	DIN5-6
		Shapping	M0.3-M30	Φ20~Φ2500	DIN8-9
		Shapping+Grinding	M2.0-M30	Φ100~Φ2500	DIN5-6
		Milling +Grinding	M3.0-M35	Φ100~Φ2500	DIN5-6



## BEVEL GEARS

### 锥齿轮

- ※ STRAIGHT BEVEL GEAR
- ※ SPIRAL BEVEL GEAR
- ※ HYPOID BEVEL GEAR
- ※ CROWN BEVEL GEAR
- ※ ZERO BEVEL GEAR
- ※ MITER BEVEL GEAR

#### ○ Bevel gears | 锥齿轮

Pics	Types	Supply Status	Module(M)	Diameters(mm)	Accuracy(DIN)
	Straight Bevel Gears	Forging	M0.5-M15	Φ10~Φ500	DIN8-9
		Planing	M0.5-M15	Φ10~Φ500	DIN7-9
		Grinding	M0.5-M15	Φ10~Φ600	DIN5-6
		5 Axis Machining	M35 Max.	Φ2500 Max.	DIN3-6
	Spiral Bevel Gears	Lapping(Gleason)	M0.5-M15	Φ10~Φ700	DIN7-8
		Grinding (Gleason)	M0.5-M30	Φ10~Φ1600	DIN5-6
		Hard Cutting(Klingelnberg)	M3.0-M30	Φ200~Φ2500	DIN5-6
		5 Axis Machining(Gleason)	M35 Max.	Φ2500 Max.	DIN3-6
		5 Axis Machining(Klingelnberg)	M35 Max.	Φ2500 Max.	DIN3-6
	Hypoid Bevel Gears	Lapping	M0.5-M15	Φ20~Φ600	DIN8-9
		Grinding	M0.5-M15	Φ20~Φ600	DIN5-7
	Crown Bevel Gears	Lapping	M0.5-M20	Φ10~Φ1600	DIN7-8
		Grinding	M0.5-M20	Φ10~Φ1600	DIN5-7
	Zero Bevel Gears	Grinding	M0.5-M30	Φ20~Φ1600	DIN5-7
	Miter Bevel Gears	Grinding	M0.5-M30	Φ20~Φ1600	DIN5-7





## WORM GEARS 蜗轮蜗杆

### Worm gears | 蜗轮蜗杆

Types	Supply Status	Module(M)	Diameters(mm)	Accuracy(DIN)	Regular Materials
Worm Wheel	Hobbing	M0.5-M45	Φ10~Φ2600	DIN8-9	Brass ,Bronze ,Alloy Steel, Stainless Steel
Worm Shaft	Milling	M0.5-M45	Φ10~Φ2600	DIN8-9	Carbon Steel ,Alloy Steel, Stainless Steel
	Milling+Grinding	M0.5-M45	Φ10~Φ2600	DIN5-6	
Profile	ZC / ZI / ZN / ZK / ZA				

## SHAFTS | 轴

- ※ SPLINE SHAFT
- ※ INPUT SHAFT
- ※ MOTOR SHAFT
- ※ HOLLOW SHAFT
- ※ OUTPUT SHAFT
- ※ INSERT SHAFT
- ※ MAINSHAFT
- ※ INTERMEDIATE SHAFT



# MATERIALS & TECHNICAL

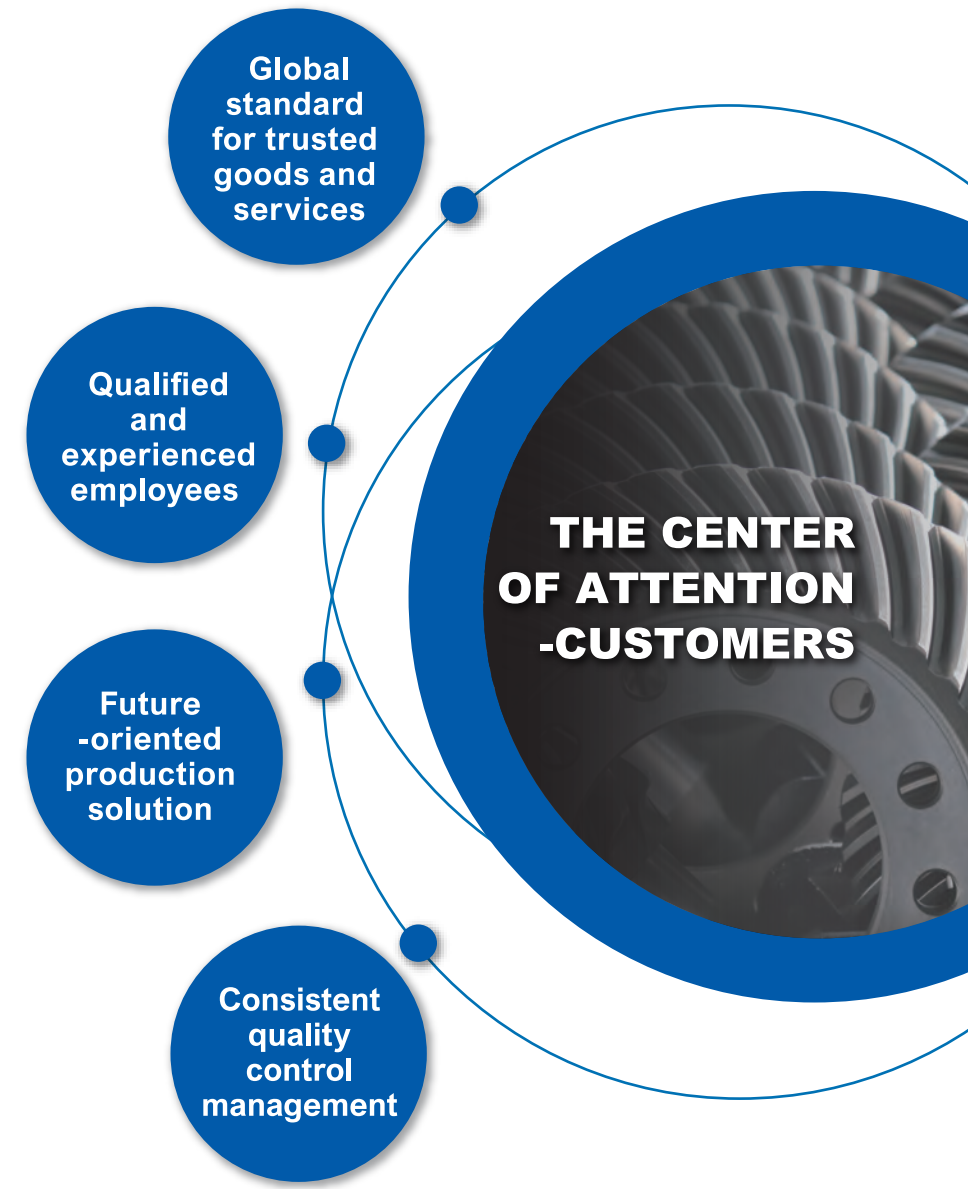
## 常规材料 & 标准

# QUALITY CONTROL

## 质量控制

Material	GB CHINA	EU/EN EUROPEAN	JIS JAPAN	ASTM/AISI/SAE AMERICAN	DIN GERMANY	Delivery Status	Tensile Strength N/mm <sup>2</sup> (min)	Yield Strength N/mm <sup>2</sup> (min)	Elongation	Without Hardening	Surface Hardening	Hardening Hardness (HRC)
Carbon Steel	20	CK22 (1.1151)	S20C	1020	C22E	Normalizing QT	> 410	> 245	> 25	156	Carburizing	> 56 HRC
	45	C45 (1.0503)	S45C	1045	C45	Normalizing QT	>600	> 355	> 16	229	Induction Hardening Nitriding	> 50 HRC > 56 HRC
Low Carbon Alloy Steel	16MnCr5	16MnCr5 (1.7131)	SMnC420H	5115	16MnCr5	QT	>880	>635	> 21	170	Carburizing	> 56 HRC
	20MnCr5	20MnCr5 (1.7147)	SMnC420H	5120	20MnCr5	QT	>880	>635	> 21	170	Carburizing	> 56 HRC
	20CrMnTi	16MnCr5 (1.7131) 20MnCr5 (1.7147)	SMnC420H	5115 5120	16MnCr5 20MnCr5	QT	>1080	>835	> 10	217	Carburizing	> 56 HRC
	17Cr2Ni2Mo	18CrNiMo7-6 (1.6587)	N.A	N.A	17CrNiMo6 17CrNiMo7	QT	>1200	>835	> 21	179	Carburizing	> 56 HRC
	20CrNiMo	20NiCrMo2-2 (1.6523)	SNCM 220	8620	21NiCrMo2	QT	>985	>785	> 9	197	Carburizing	> 56 HRC
Middle Carbon Alloy Steel	34Cr2Ni2Mo	34CrNiMo6 (1.6582)	SNCM447	4340	34CrNiMo6 GS-34 CrNiMo6V	QT	> 1080	> 980	> 10	269	Induction Hardening Nitriding	> 50 HRC > 56 HRC
	35CrMo	34CrMo4 (1.7220)	SCM435H	4135	34CrMo4	QT	> 980	> 885	> 12	315	Induction Hardening Nitriding	> 50 HRC > 56 HRC
	40Cr	41Cr4 (1.7035)	SCr440H	N.A	41Cr4	QT	> 785	> 980	> 9	207	Induction Hardening Nitriding	> 50 HRC > 56 HRC
	42CrMo	42CrMo4 (1.7225)	SCM440H	4140 4142	42CrMo4	QT	> 980	> 1080	> 12	229	Induction Hardening Nitriding	> 50 HRC > 56 HRC
	40CrNiMoA	36CrNiMo4 (1.6511)	SCNM439	Gr.9840	36CrNiMo4	QT	> 885	> 980	> 12	269	Induction Hardening	> 50 HRC
											Nitriding	> 56 HRC

NOTE :  
Above are suggested regular materials for gears, we could supply per customer's required materials like stainless steel, brass, copper, bronze etc.



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### Reverse Engineering

- ✓ Drafting drawings based on original samples for reverse engineering.

### Design Optimization

- ✓ Optimizing technical characters until original drawings completed.

### Feasibility Analysis

- ✓ Conducting feasibility analysis to ensure production availability and budget controllability.

### Quality Assurance

- ✓ One-year warranty for defects against drawings. Belon ensure your 100% satisfaction by Repairing , Re-production, or Refunding.

### Logistics Tracking

- ✓ Real-time logistics tracking updates until shipment receipt.

### Inventory Solutions

- ✓ Flexible inventory solutions satisfy your expected delivery cycle.

**PRE-SALES SERVICE**

**OUR SERVICE**  
我们的服务

**AFTER-SALES SERVICE**

**IN-SALES SERVICE**

### Timely Communication

- ✓ Within 24hours respond to customers' request.

### Visualized Production

- ✓ Weekly order updates on production process.

### CTQ Preparation

- ✓ Advanced Critical-To-Quality template and inspection SOP preparation.

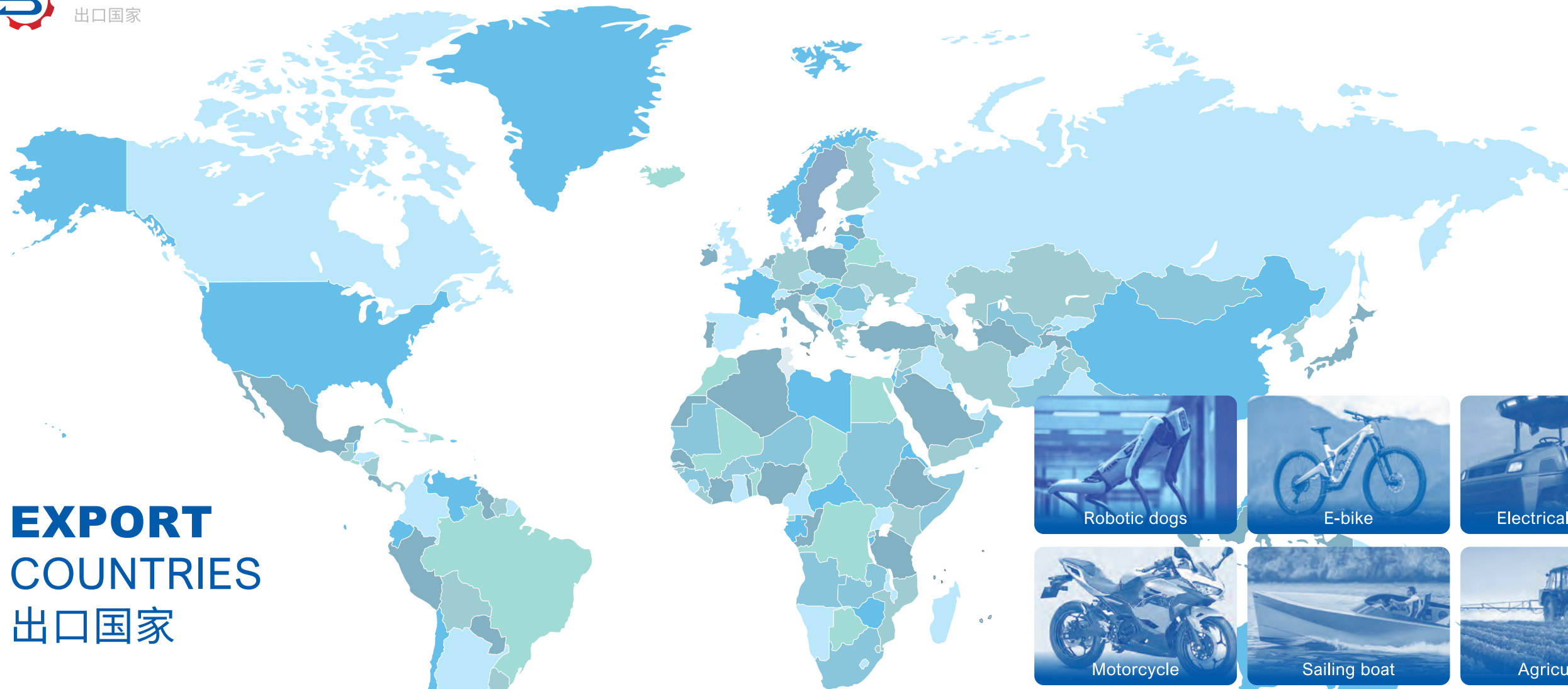
### Packaging Solution

- ✓ Customized cost-effective packages for products protection.

### Logistics Solution

- ✓ Door-to-Door flexible logistics solutions, shipping combination support.





**APPLICATION  
INDUSTRY**  
应用行业

**EXPORT  
COUNTRIES**  
出口国家

- |                       |                    |                  |                      |
|-----------------------|--------------------|------------------|----------------------|
| United States<br>美国   | Canada<br>加拿大      | Mexico<br>墨西哥    | United Kingdom<br>英国 |
| Germany<br>德国         | Sweden<br>瑞典       | Hungary<br>匈牙利   | Austria<br>奥地利       |
| Slovakia<br>斯洛伐克      | Switzerland<br>瑞士  | Italy<br>意大利     | Finland<br>芬兰        |
| Turkey<br>土耳其         | Spain<br>西班牙       | Portugal<br>葡萄牙  | Malaysia<br>马来西亚     |
| Thailand<br>泰国        | Indonesia<br>印度尼西亚 | Singapore<br>新加坡 | India<br>印度          |
| Saudi Arabia<br>沙特阿拉伯 | Brazil<br>巴西       | Morocco<br>摩洛哥   | Peru<br>秘鲁           |
| South Africa<br>南非    | Australia<br>澳大利亚  | Argentina<br>阿根廷 | +30<br>.....         |



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# VISION MISSION VALUE

**OUR  
VISION**

To be the recognized partner of choice for the design, integration and execution of transmission components for worldwide customers.

**CORE  
VALUE**

Explore and innovate, service priority, solidary and diligent, create future together.

**OUR  
MISSION**

Building a strong empowered team of international trading to accelerate the expansion of China transmission gears exporting.

***BELON* GEAR**  
**—MAKE GEARS *BE-LON* GER!**