



# 泰盟集团

长春泰盟机械制造股份有限公司  
Changchun TEMO Machinery Manufacturing Co., Ltd.



## 汽车产业链

DUNS# 54 441 5252

AUTOMOTIVE INDUSTRY CHAIN





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# 集团概况

Group overview

Part 1

**泰盟** 是一家专注于乘用车及商用车底盘制动系统零部件的研发、生产与销售的企业。TEMO is an intelligent manufacturing company that focus on research, production and sales of PC and CV brake system products.

致力于在全球范围内打造拥有自主知识产权的先进生产工艺体系，其在技术研发、铸造、机械加工、产品检测及验证等领域拥有多项专利，产品深受市场认可。It is committed to building an advanced production process system with independent intellectual property rights on a global scale. It has much expertise in technology research and development, casting, parts processing, product test and validation, and other fields.the products are well recognized by the market.

服务的客户有一汽红旗、奔腾、解放品牌，一汽大众捷达、大众、奥迪品牌，东风岚图、猛士，奇瑞，BYD、NAVISTAR等全球知名品牌。Our customers include HONGQI, BESTURN and JIEFANG of FAW group, JETTA, VW and AUDI of FAW-Volkswagen, SAIC Volkswagen, VOYAH, Mengshi of Dongfeng group, Chery of Anhui, BYD, NAVISTAR and other world-renowned brands.

1

员工总数 **383人**

TOTAL NUMBER OF EMPLOYEES: 483



2

总占地面积 **13万平米**

TOTAL AREA: 180,000 SQUARE METERS



3

技术专利 **55项**

TECHNOLOGY PATENT: 55



## 规模行业领先 成本控制最优

INDUSTRY-LEADING SCALE AND OPTIMAL COST CONTROL

### 泰盟机械加工厂 TEMO Machining Plant

- 建成于2019年  
Founded in 2019
- 坐落于长春市装备制造产业开发区  
Kuancheng district  
Changchun city
- 占地面积: 104823m<sup>2</sup>  
Land Area: 104,823 m<sup>2</sup>
- 厂房面积: 58000m<sup>2</sup>  
Plant Area: 58,000 m<sup>2</sup>
- 铸件的加工、涂装处理等  
Machining & Coating of  
Castings



★ 长春  
Changchun

### 长春泰盟铸造厂 Changchun TEMO Foundry Plant

- 成立于2012年7月3日  
Founded on July 3rd, 2012
- 坐落于长春市烧锅镇  
Located in Shaoguo town,  
Changchun city.
- 占地面积: 22871m<sup>2</sup>  
Land Area: 22,871 m<sup>2</sup>
- 厂房面积: 11440m<sup>2</sup>  
Plant Area: 11,440 m<sup>2</sup>
- 灰铁、球铁等铸件的生产  
Production of gray iron & ductile



★ 太原  
Taiyuan

### 介休泰盟工业科技有限公司 JIEXIU TEMO Industrial Technology Co.,Ltd.

- 2023年4月启动合作  
Start cooperation in April 2023
- 太原介休市  
Taiyuan Jiexiu
- 占地面积: 62000m<sup>2</sup>  
Cover area: 62,000m<sup>2</sup>
- 厂房面积: 35000m<sup>2</sup>  
Plant area: 35,000m<sup>2</sup>
- 铸件、加工、涂装处理等  
Casting, machining, coating



## 稳步前行 踔厉奋发

FORGE AHEAD WITH ENTERPRISE AND FORTITUDE



一汽奔腾项目量产  
MP of FAW Bestun  
brake disc project



获取一汽大众捷达项目、高8、迈腾制动盘项目  
Golf A8、Lamando NF、Magotan B9



制动盘正向开发项目 Brake disc forward developing  
东风岚图、东风猛士 Dongfeng VOYAH、Mengshi  
威伯科商用车卡钳项目 WABCO CV caliper



MEB平台项 MEB project  
红旗项目 Hongqi disc

奇瑞项目 CHERY project  
上汽项目 SAIC project



机加工厂前身  
Former machining  
plant founded

成立泰盟铸造厂  
TEMO foundry  
established

长春泰盟制动技术有限公司成立  
(全资子公司)  
Changchun TEMO Brake Tech  
(machining plant),  
wholly owned subsidiary founded

机械加工智能化工厂建成  
Smart machining plant completion

一汽奥迪制动盘项目  
一汽大众MQB5包制动盘项目  
高端国际售后项目  
Navistar 商用车支架项目  
BYD项目  
FAW-Audi disc project  
FAW-VW MQB5 disc  
IAM Project  
Navistar CV brackets  
BYD Project

介休泰盟工业科  
技有限公司成立  
JIEXIU TEMO  
Industrial  
Technology  
Co.,Ltd.was  
founded

## 主要客户

MAIN SERVING CUSTOMERS



一汽-大众  
FAW-VOLKSWAGEN



上汽大众  
SAIC VOLKSWAGEN

大众安徽  
VOLKSWAGEN ANHUI

NAVISTAR

红旗

FAW HONGQI



一汽奔腾  
BESTUNE

FAW CAR

解放

FAW JIEFANG

WABCO



东风DONGFENG



东风猛士MENGSHI



东风岚图VOYAH



上汽



CHERY

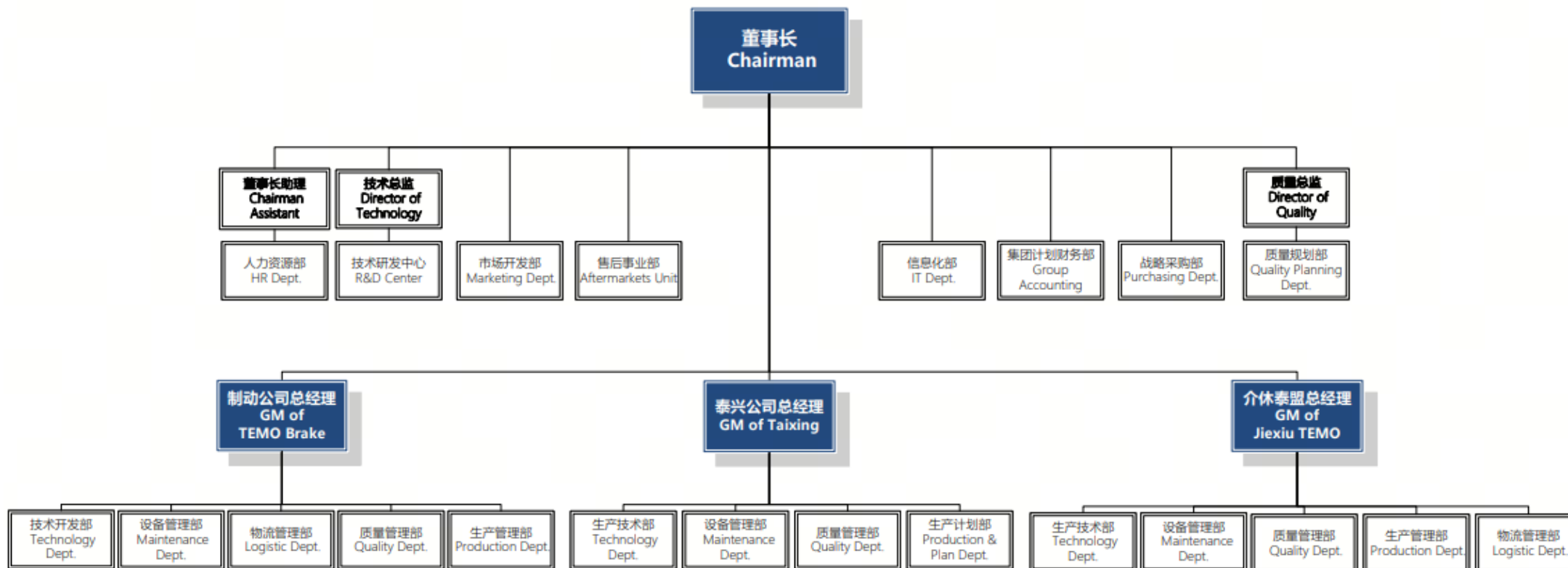


吉利汽车  
GEELY AUTO



## 组织架构

### ORGANIZATION STRUCTURE





## 聚焦产品 技术领先

PRODUCT FOCUS TECHNOLOGY LEADERSHIP

### 乘用车产品 PC PRODUCTS



- 名称: 螺栓制动盘 Part: brake disc
- 材质: GG15HC Material: GG15HC
- 尺寸:  $\phi 348 \times 44.5$  Dimension:  $\phi 348 \times 44.5$
- 重量: 10.5kg Weight: 10.5kg



- 名称: 转向节 Part: Knuckle
- 材质: QT450-10 Material: QT450-10, QT550-10;
- 重量: 6.4kg Weight: 6.4kg;
- 车型: 新捷达VS5/VS7/B70/NAT等 Model: VS5, VS7, VA3, B70, B70S, NAT etc.



- 名称: 铆接制动盘 Part: Riveted
- 材质: GG15HC Material: GG15HC
- 重量: 9kg Weight: 9kg

### 商用车产品 CV PRODUCTS



- 名称: 卡车制动盘
- 材料: FAZ1125C
- 车型: 解放J6系列
- Part: truck brake disc
- material: FAZ1125C
- model: Jiefang J6 series



- 名称: 卡车支架毛坯
- 材料: 5006
- 车型: NAVISTAR
- Part: truck bracket blank
- material: 5006
- model: NAVISTAR



- 名称: 卡钳&支架
- 材质: QT600-3
- Part: Caliper & Carrier
- Material: QT600-3

PRODUCT FOCUS TECHNOLOGY LEADERSHIP

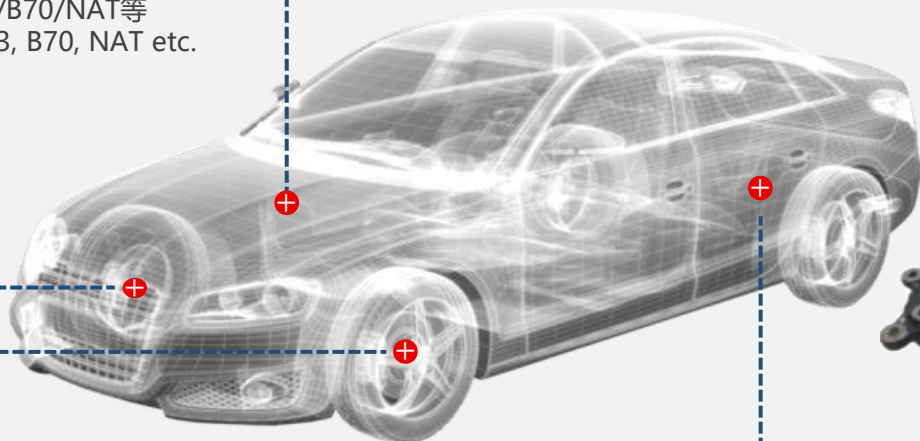
## 产品聚焦 技术领先

### 乘用车产品 PC PRODUCTS

- 名称: 转向节 Part: Knuckle
- 材质: QT450-10 Material: QT450-10;
- 重量: 6.4kg Weight: 6.4kg;
- 车型: 新捷达VS5/VS7/B70/NAT等  
Model: VS5/VS7/VA3, B70, NAT etc.



- 名称: 双质量飞轮 Part: DMF
- 材质: GCD500 Material: GCD500
- 尺寸:  $\phi 268 \times 36.7$  Dimension:  $\phi 268 \times 36.7$
- 重量: 3.04kg Weight: 3.04kg
- 车型: 哈弗H6, 瑞丰S5  
Model: HAVEL H6, Ruifeng S5, V6

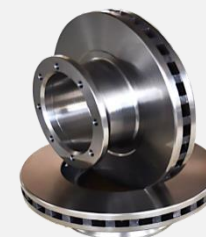


- 名称: 制动盘 Part: brake disc
- 材质: HT250/TL011/TL048A Material: HT250/TL011/TL048A
- 尺寸:  $\phi 348 \times 44.5$  Material: Dimension:  $\phi 348 \times 44.5$
- 重量: 10.5kg Weight: 10.5kg
- 车型: 奔腾T77/T99、红旗H5、新捷达VS5/VS7、凌度、高8  
Model: Bestrun T77/T99, H5, new JETTA VS5/VS7, Lamando, Golf A8



- 名称: 轮毂支架 Part: hub carrier
- 材质: QT550-10 Material: QT550-10
- 重量: 6.5kg Weight: 6.5kg
- 车型: 红旗H5等 Model: Hongqi H5

### 商用车产品 CV PRODUCTS



- 名称: 卡车制动盘
- 材料: FAZ1125C
- 车型: 解放J6系列
- Part: truck brake disc
- material: FAZ1125C
- model: Jiefang J6 series



- 名称: 卡车飞轮
- 材质: HT250/QT450
- 车型: 北汽福田、MAN、斯堪尼亚
- Part: truck flywheel
- Material: HT250/QT450
- Model: SCANIA, FOTON, MAN, BENZ



- 名称: 卡钳&支架
- 材质: QT600-3
- Part: Caliper & Brake Carrier
- Material: QT600-3

复合盘项目 COMPOSITE BRAKE DISC PROJECT



螺栓连接  
Bolted connection



铆钉连接  
Riveted connection



铝&灰铸铁联合铸造  
Aluminum&grey iron  
joint casting

## 大众-奥迪项目 VW-AUDI PROJECT

### 量产项目 MASS PRODUCTION PROJECTS

### 开发中项目 PROJECT IN DEVELOPING

3,200,021 pcs

329,963 pcs

343,888 pcs



**Golf A8** brake disc  
高尔夫A8制动盘



**LamandoNF** brake disc  
凌度制动盘



**MagotanB** brake disc  
迈腾制动盘



**Tayron** brake disc  
探岳制动盘



**ID4** Drum  
ID4制动鼓

2019

2020

2021

2024

2025



**JETTA VS5/VS7/VA3** brake disc & Steering knuckle  
捷达VS5/VS7/VA3制动盘及转向节



**Bora** brake disc  
宝来制动盘



**FAW-Audi C9/B10** Brake disc  
一汽奥迪C9/B10制动盘

## 一汽项目 FAW PROJECT

### 量产项目 MASS PRODUCTION PROJECTS

### 开发中项目 PROJECT IN DEVELOPING



**Besturn B50/B90/X40/X80**  
brake disc  
一汽奔腾B50/B90/X40/X80制动盘

2012



**Hongqi H5** brake disc  
一汽红旗H5制动盘

2018



**Besturn B70** brake disc  
一汽奔腾B70制动盘

2019

2020



**Hongqi H6-PHEV**  
brake disc  
一汽红旗H6-PHEV制动盘

2024



**Besturn T55/T99**  
brake disc  
一汽奔腾T55/T99制动盘



**Hongqi HS5**  
brake disc  
一汽红旗HS5制动盘



**Besturn E05-EV**  
brake disc  
一汽奔腾E05制动盘



**Hongqi EQM5-EV**  
brake disc  
一汽红旗EQM5-EV制动盘

## 新能源项目 NEW ENERGY VEHICLE PROJECT

### 量产项目 MASS PRODUCTION PROJECTS



**M-Terrain 917 PHEV&EV**  
brake disc:  $\varphi 369$   
猛士越野车917 PHEV &EV制动盘:  $\varphi 369$

2022

2023



**VOYAH zhuiguang-EV**  
brake disc:  $\varphi 340$ - $\varphi 320$   
岚图追光-EV 制动盘:  $\varphi 340$ - $\varphi 320$

### 开发中项目 PROJECT IN DEVELOPING



**DENZA D9-EV**  
brake disc:  $\varphi 340$ - $\varphi 380$   
腾势D9-EV 制动盘:  $\varphi 340$ - $\varphi 380$

2024

2025



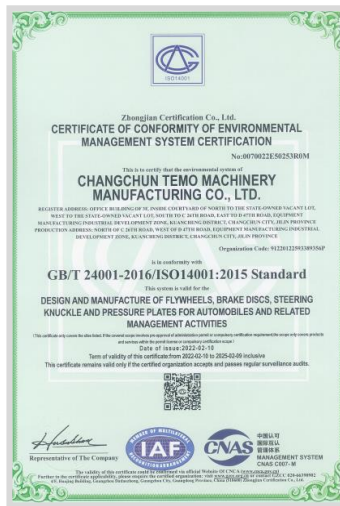
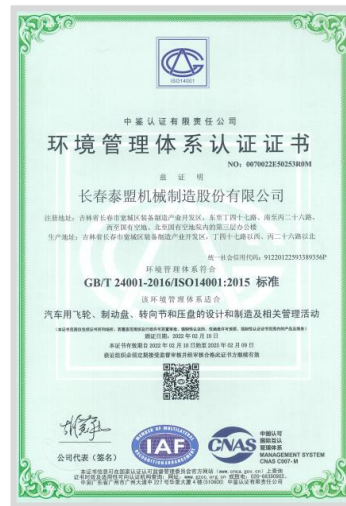
**Chery--EV**  
brake disc:  $\varphi 309$   
奇瑞制动盘:  $\varphi 309$



**RADAR--EV**  
brake disc:  $\varphi 380$   
雷达-EV 制动盘:  $\varphi 380$

## 合规生产 资质齐全

COMPLIANCE PRODUCTION COMPLETE QUALIFICATIONS



IATF16949: 2016  
2023/12/4-2026/12/3

ISO14001: 2015  
2022/2/10-2025/2/9

ISO45001: 2018  
2022/2/10-2025/2/9

## 持续创新 硕果累累

CONTINUOUS INNOVATION IMPRESSIVE ACCOMPLISHMENTS

截止2023年 已开发**100**多项新技术 获得**55**项专利认证

As of 2023, more than 100 new technologies have been developed and 55 patent certifications have been obtained





## 市场认可 屡获殊荣

MARKET RECOGNITION IMPRESSIVE ACCOMPLISHMENTS

国家高新技术企业、专精特新企业、科技小巨人企业  
成功入选2023年度智能制造优秀场景公示名单

National high-tech enterprise, special innovative enterprise,  
technology enterprise.  
listed in the "Excellent intelligent manufacturing list of 2023"



## 项目活动 PROJECT ACTIVITIES



东风猛士合作商年度颁奖典礼

ANNUAL AWARD CEREMONY OF DONGFENG MENGSHI PARTNERS



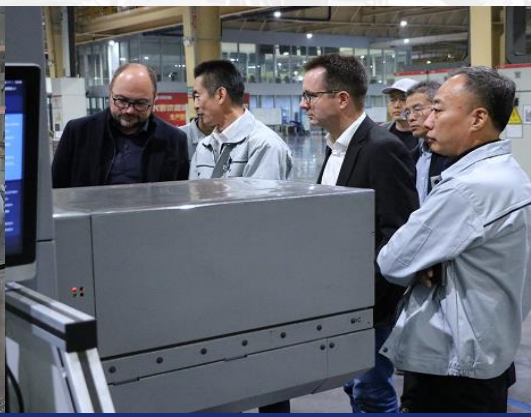
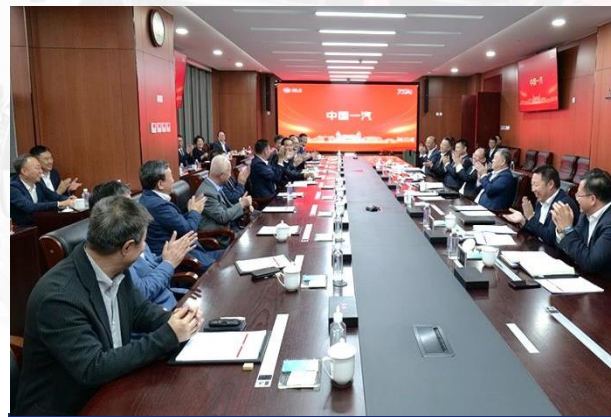
长春市汽车行业协会与一汽集团座谈会

CHANGCHUN AUTOMOBILE INDUSTRY ASSOCIATION AND FAW SYMPOSIUM



德国奥迪和一汽大众莅临公司总部参观考察

AUDI AG AND FAW-VOLKSWAGEN VISITED TEMU HEADQUARTERS



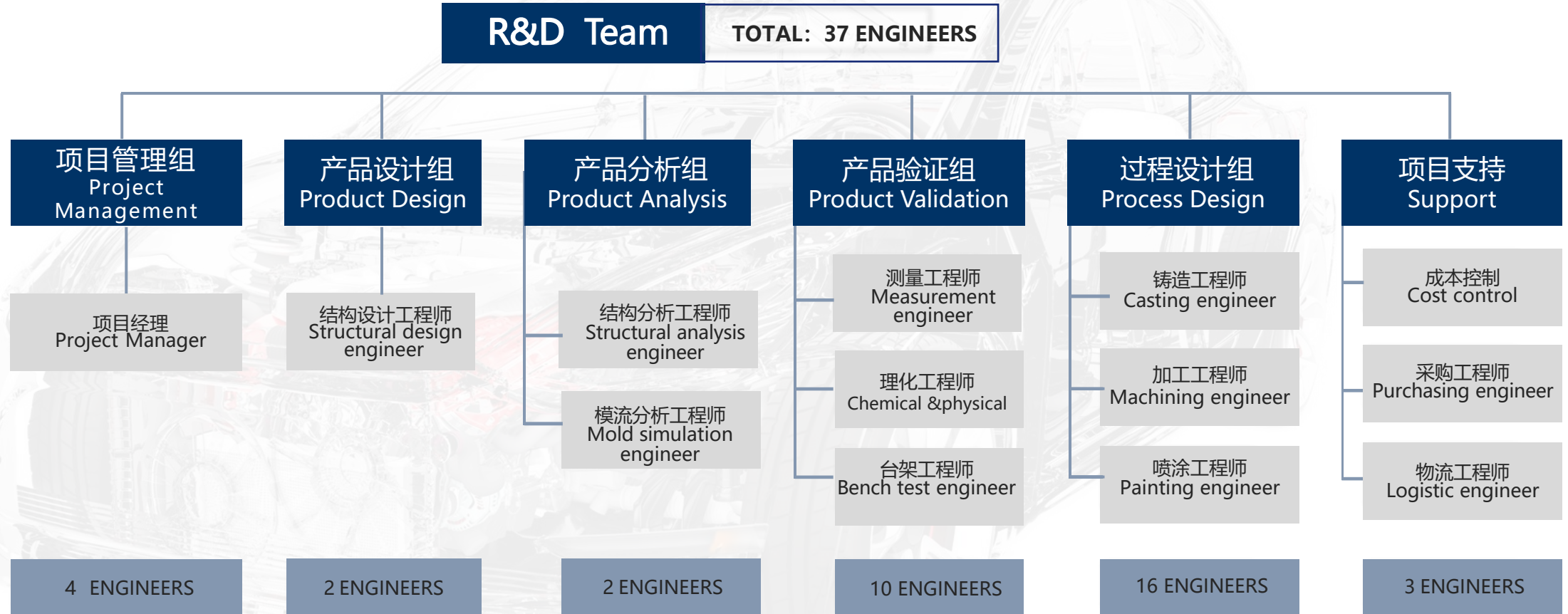
**产品研发**

Product development

**Part 2**

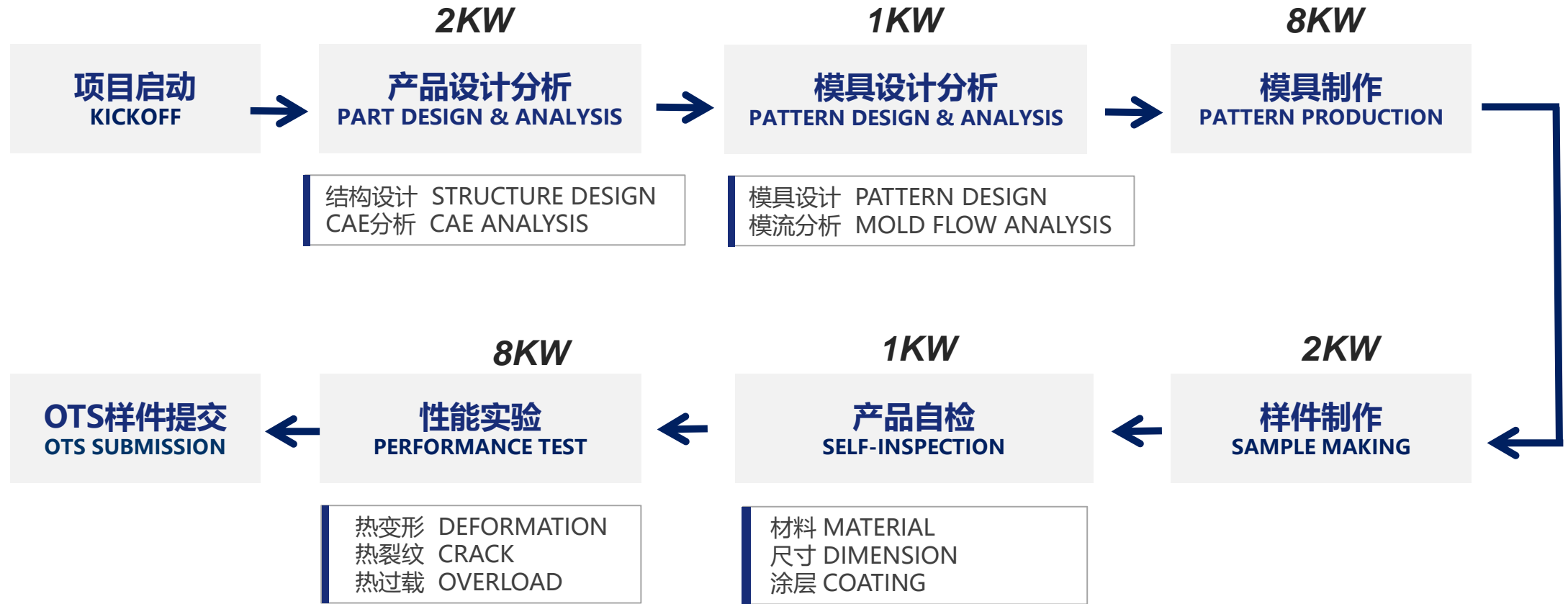
## 研发团队及机构配置

R&D TEAM AND CONFIGURATION STRUCTURE



## 研发周期及流程：制动盘标准开发周期22KW

RESEARCH AND DEVELOPMENT PERIOD AND PROCESS: REGULAR DEVELOPING PERIOD OF BRAKE DISC 22KW



## 研发设计和应用软件 R&D DESIGN AND SOFTWARE APPLICATION

产品三维建模  
3D MODELING

- CATIA V5 6R 2022
- Auto CAD

模具工装设计  
TOOLS & FIXTURE DESIGN

- SOLIDWORKS
- UG

产品分析模拟  
PRODUCT SIMULATION ANALYSIS

- HYPERMESH
- ABAQUS
- MAGMA SOFT 5.4



## 制动盘设计 BRAUKE DISC DESIGN

1. 整车基本参数  
Basic parameters of the whole vehicle

2. 制动器参数  
Brake parameters



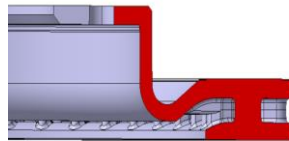
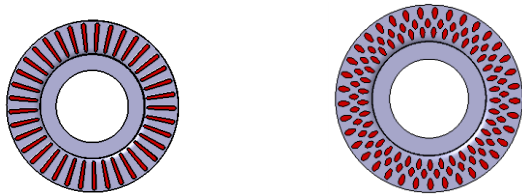
4. 材料要求  
Material Requirements

5. 重量要求  
Weight requirement

3. 制动盘轮廓尺寸  
Outline Dimension of Brake Disc

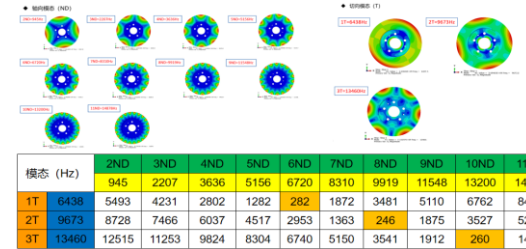
6. 涂层要求  
Coating requirements

设计输入  
DESIGN INPUT

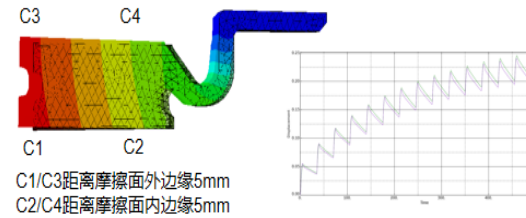


结构设计  
STRUCTURE DESIGN

模态分析  
Mode Analysis

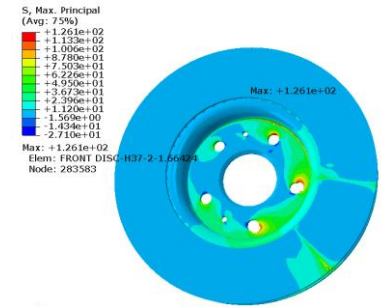


热变形分析  
Thermal Deformation Analysis

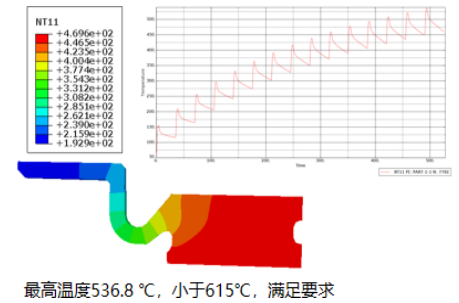


C1-C2=0.245mm, C3-C4=0.250mm, 满足≤0.3mm要求

强度分析  
Strength Analysis



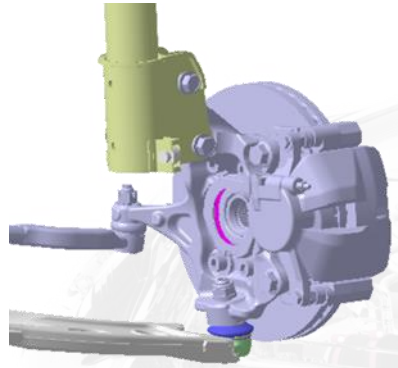
热容量分析  
Thermal Capacity Analysis



仿真分析  
SIMULATION ANALYSIS

## 转向节设计

### STEERING KNUCKLE DESIGN

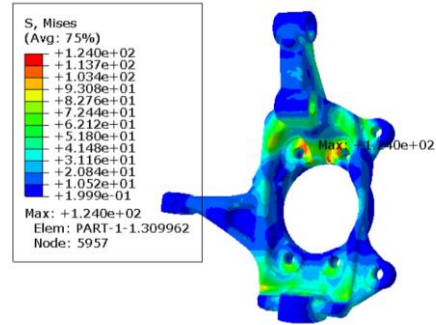


位置-POSITION	X	Y	Z
轮心 wheel center			
接地点 upper shock absorber joint point			
减震器上连接点 upper shock absorber joint point			
减震器下连接点 lower shock absorber joint point			
转向拉杆外点 tie rod outer joint point			
转向拉杆内点 tie rod inner joint point			
下控制臂外点 lower control arm outer point			
下控制臂内点 (前) inner front track control arm mounting point			
下控制臂内点 (后) inner rear track control arm mounting point			

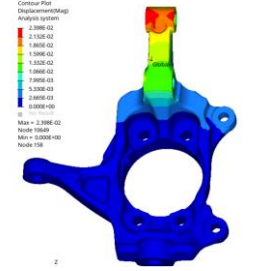
边界条件输入  
Boundry Input

硬点坐标输入  
Coordinates Input

**设计输入**  
DESIGN INPUT



强度分析  
Strength Analysis



刚度分析  
Stiffness Analysis

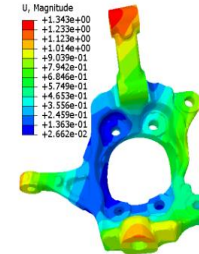


figure1. the first modal shape (freq: 1064Hz)

模态分析  
Mode Analysis

**仿真分析**  
SIMULATION ANALYSIS



# 铸造工厂

Foundry factory

Part 3

## 泰盟铸造厂·泰兴分公司

Changchun TEMO Machinery Manufacturing Co., Ltd. Taixing Branch

泰盟铸造厂，成立于2012年，一个充满活力与创新的梦想工厂，致力于为全球汽车品牌提供高品质铸造产品。

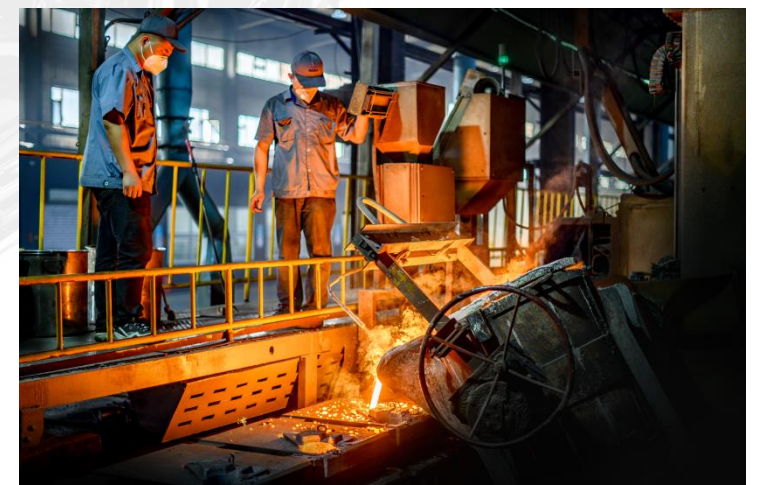
Our foundry was established in 2012, a dream factory full of vitality and innovation, dedicated to providing high-quality casting products to global automotive brands.

### 基本概况

铸造线：800万件/年 人员：176人  
灰铸铁材料：TL048A, TL011, HT150, HT250, GG20, GG15HC  
球墨铸铁：GJS450-10, GJS550-10, QT600-3, QT 700-2, ADI  
产品范围：制动盘/转向节/卡钳支架/商用车制动盘

### BASIC PROFILE

Foundry line- 8 million pcs/year Personnel: 176 Employees  
Grey Cast Iron Material: TL048A, TL011, HT150, HT250, GG20, GG15HC  
Nodular Cast Iron: GJS450-10, GJS550-10, QT600-3, QT 700-2, ADI  
Product: Brake Disc / Knuckle / Caliper / Brake Carrier / CV Brake Disc



## 铸造线及相关设备

### FOUNDRY LINE AND EQUIPMENT

法迪尔克-全自动混砂机  
FONDARC sand mixer



潍坊晟林-全自动冷芯盒  
Weifang Shenglin-  
Automatic cold core shooting



ABP-保温浇注机  
ABP-Holding pouring machine



诸城万通-抛丸除锈机  
Zhucheng Wantong-shot  
blasting



瑞琪曼-打磨线  
Reichmann-automatic grinding line



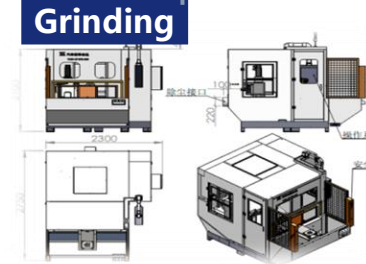
埃博普-6吨中频无芯感应电炉  
ABP-6 tons medium frequency  
coreless induction furnace



迪砂-水平分型造型机  
DISA-horizontal molding machine



法迪尔克-滚筒落砂机  
FONDARC-cooling drum



天津裕隆-自动打磨机  
Tianjin Yulong-automatic  
grinding machine

## 铸造检测设备及检测能力

FOUNDRY INSPECTION EQUIPMENT AND CAPABILITY

序号 TEST	实验项目 TEST	泰盟是否符合要求 TEMO MEET REQUIREMENT	设备名称 EQUIPMENT	设备图片 PICTURE	厂内/外委 IN-HOUSE/ OUTSOURCING
1	成份 chemical composition	Yes	光谱仪 spectrum  碳硫分析仪 LECO C/S analyzer		厂内 in-house
2	硬度hardness	Yes	布氏硬度计 brinell hardness meter		厂内 in-house
3	楔压强度 Wedge compression strength	Yes	万能压力试验机 universal presure tester		厂内 in-house

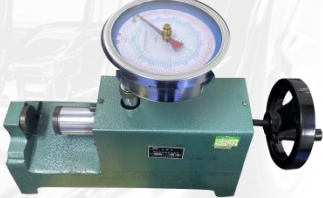
## 铸造检测设备及检测能力

### FOUNDRY INSPECTION EQUIPMENT AND CAPABILITY

序号	实验项目 TEST	泰盟是否符合要求 TEMO MEET REQUIREMENT	设备名称 EQUIPMENT	设备图片 PICTURE	厂内/外委 IN-HOUSE/ OUTSOURCING
4	毛坯固有频率 casting natural frequency	Yes	固有频率测试仪 Natural frequency tester		厂内 in-house
5	基体组织/石墨形态 Base structure/graphite type	Yes	金相显微镜 Metallographic microscope		厂内 in-house
6	风道筋形状 Shape of air duct	Yes	3D扫描仪 3D scanner		厂内 in-house
7	内部缺陷 internal defects	Yes	X光探伤机 X ray detector		厂内 in-house

## 铸造检测设备及检测能力

FOUNDRY INSPECTION EQUIPMENT AND CAPABILITY

序号	实验项目 TEST	泰盟是否符合要求 TEMU MEET REQUIREMENT	设备名称 EQUIPMENT	设备图片 PICTURE	厂内/外委 IN-HOUSE/ OUTSOURCING
9	砂型表面硬度 Sand mold surface hardness	Yes	砂型表面硬度计 Sand mold surface hardness meter		厂内 in-house
10	湿压强度 Green compression strength	Yes	液压式万能强度测定机 hydraulic universal strength tester		厂内 in-house
11	透气性Permeability 紧实率Compactibility 有效膨润土含量 Effective bentonite content 型 砂发气性Sand gas evolution	Yes	型砂实验室 Molding sand lab 置换式透气性测试仪 Replaceable ventilation tester 粘土吸蓝量测定仪 clay blue uptake tester 电磁微震筛砂机 Electromagnetic micro seismic sand screen		厂内 in-house

**加工工厂**  
Machining factory

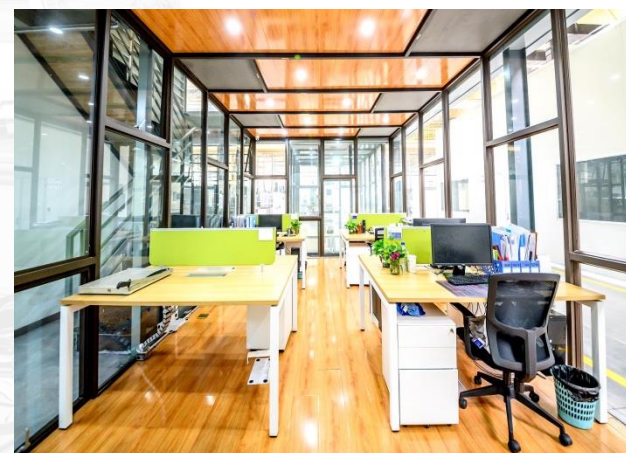
**Part 4**

## 泰盟智能化加工厂

泰盟智能化加工厂，专注于汽车制动盘、转向节、各类支架的加工及喷涂服务，凭借先进的智能化设备和数十年的生产经验，为全球汽车行业提供高品质、高精度的零部件产品。

## Intelligent Processing Plant Of TEMO

The intelligent machining plant of TEMO focuses on the machining and spraying services of automotive brake discs, steering knuckles, and various brackets. With advanced intelligent equipment and decades of production experience, it provides high-quality and high-precision parts for the global automotive industry.



### 基本概况

制动盘加工线：800万件/年  
转向节加工线：200万件/年  
卡车制动盘线：20万件/年  
人员：207人  
范围：制动盘、转向节、各类支架的加工及喷涂等

### BASIC PROFILE

Brake disc machining line: 8 million pcs/year  
Knuckle machining line: 2 million pcs/year  
CV brake disc machining line: 200 K pcs/ year  
216 employees  
Product: machining of brake disc, knuckle, caliper, brake carrier, CV brake disc and brackets and coating of brake disc



## 乘用车制动盘加工线及全自动设备

### PASSENGER CAR BRAKE DISC PROCESSING LINE AND AUTOMATIC EQUIPMENT

克迈特-倒立式数控车床  
KEMT-vertical NC machine

德国埃马克-倒立式数控车床  
Germany EMAG-vertical NC machine

意大利 马波斯- 综合检测站  
Italy MARPOSS-comprehensive check station

上海布兰汀- 全自动喷涂线  
Shanghai Bulanting-automatic coating line



克迈特-倒立式数控车床  
KEMT-vertical NC machine

意大利-动平衡机  
CEMB ( Italy)-balancing machine

上海布兰汀-全自动喷涂线  
Shanghai Bulanting-automatic coating line

## 转向节加工线及自动设备

STEERING KNUCKLE PROCESSING LINE AND AUTOMATIC EQUIPMENT

GROB GA550五轴加工中心  
GROB GA550-5-axis machine center



5-axis machining

KEMT MT120 -四轴加工中心  
KEMT MT120 -4-axis machine center



4-axis machining

5-axis machining



KEMT MT120-五轴加工中心  
KEMT MT120-5-axis machine center

5-axis machining



GROB GA550 五轴加工中心  
GROB GA550 -5-axis machine center

## 商用车制动盘加工线及全自动设备

COMMERCIAL VEHICLE BRAKE DISC AUTOMATIC MACHINING LINE

斗山-数控加工中心钻孔  
DOOSAN-NC machine center drilling



麦睿菱-综合检测  
MAIRUILING-Comprehensive measuring



Rough & fine turning



威亚-立式数控车床 粗车+精车  
WIA-vertical NC machine  
rough turning & fine turning



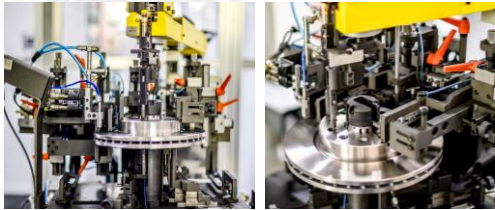
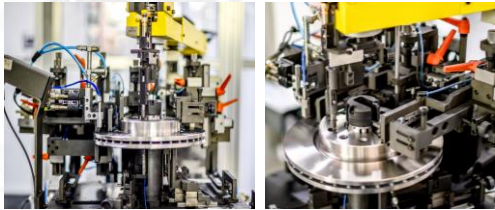
Balancing



申克-动平衡  
SCHECK-balancing

## 加工检测设备及检测能力

### MACHINING INSPECTION TESTING EQUIPMENT AND CAPABILITY

序号 NO.	实验项目 TEST	标准 STANDARD	泰盟是否符合要求 TEMU MEET STANDARD	设备名称 EQUIPMENT	设备图片 PICTURE	厂内/外委 in-house/ outsourcing
1	动平衡 balancing	图纸 drawing	Yes	动平衡机 CEMB balancing machine		厂内 in-house
2	关键尺寸检测 key dimension check	图纸 drawing	Yes	马波斯综合检测站 Marposh on line inspection		厂内 in-house
3	成品固有频率 natural frequency	图纸 drawing	Yes	马波斯综合检测站& 固有频率测试仪 Marposh on line inspection& natural frequency test		厂内 in-house
4	金属表面无缺陷 no defects in surface	图纸 drawing	Yes	马波斯综合检测站 Marposh on line inspection		厂内 in-house




## 加工检测设备及检测能力

### MACHINING INSPECTION TESTING EQUIPMENT AND CAPABILITY

序号 TEST	实验项目 TEST	标准 STANDARD	泰盟是否符合要求 TEMU MEET STANDARD	设备名称 EQUIPMENT	设备图片 PICTURE	厂内/外委 in-house/ outsourcing
5	尺寸检测 Dimension check	图纸 drawing	Yes	海克斯康三坐标 HEXAGON CMM		厂内 in-house
6	形位公差 Shape and position tolerance	图纸 drawing	Yes	霍梅尔圆度仪 hommel roundness tester		厂内 in-house
7	粗糙度及圆弧、角度等 Roughness, R and angle, etc.	图纸 drawing	Yes	日本三丰粗糙度及廓度仪 Mitutoyo Formtracer		厂内 in-house

## 加工检测设备及检测能力

### MACHINING INSPECTION TESTING EQUIPMENT AND CAPABILITY

序号	实验项目 TEST	标准 STANDARD	泰盟是否符合 要求 TEMO MEET STANDARD	设备名称 EQUIPMENT	设备图片 PICTURE	厂内/外委 in-house/ outsourcing
8	表面防护 surface protection	图纸drawing	Yes	盐雾实验机 等 salt spraying machine		厂内 in-house
9	汽车环境标准 汽车零件 材料 燃料 避免有害物质 ELV		Yes			外委 outsourcing
10	台架试验 bench test	图纸drawing	Yes	台架试验机 bench test		厂内 in-house

## 加工检测设备及检测能力

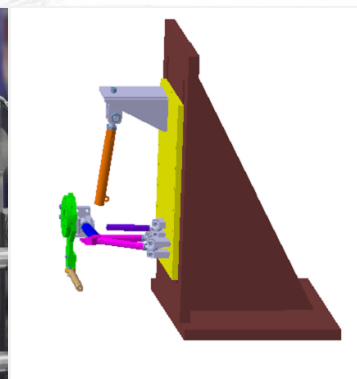
MACHINING INSPECTION TESTING EQUIPMENT AND CAPABILITY



**INERTIAL TEST BENCH**



**MTS MULTI-CHANNEL TEST BENCH**



**TOOLING DESIGN**

### INSPECTION:

- BRAKE DISC HEAT CAPACITY TEST
- BRAKE DISC THERMAL DEFORMATION TEST
- BRAKE DISC THERMAL OVERLOAD TEST
- BRAKE DISC THERMAL CRACK TEST

...

- STRENGTH TEST FOR STRUCTURAL PARTS
- FATIGUE TEST FOR STRUCTURAL PARTS

...

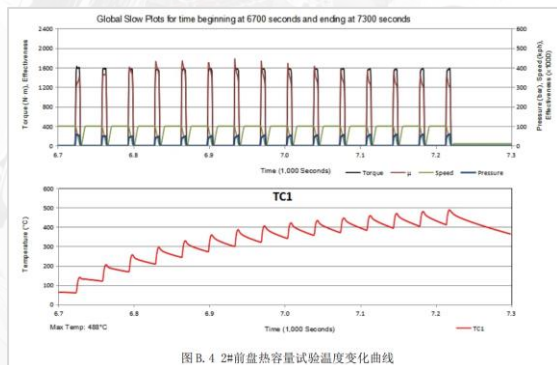


图 B.4 2#前盘热容量试验温度变化曲线

制动盘温升曲线

TEMPERATURE CURVE OF BRAKE DISC

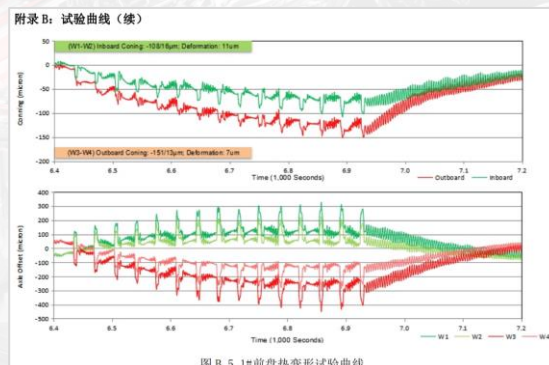


图 B.5 1#前盘热变形试验曲线

制动盘热变形曲线

BRAKE DISC THERMAL DEFORMATION CURVE

### KEY POINT:

- INERTIA/LOAD CALCULATION
- BENCH INSTALLATION AND COMMISSIONING
- INTERPRETATION OF TEST CONTENT
- TEST DATA COLLATION

# 售后市场

Aftermarket

Part 6



## 售後項目

PROJECT OF AFTERSALES MARKET

快速開發  
fast  
developing

柔性生產  
flexible  
production

OE經驗  
OE  
experience

1

### 快速開發 fast developing

公司具備快速開發、快速反應的團隊與技術及過程保證能力  
Our team have ability of fast developing, quick response and technology and process assurance.

2

### 柔性生產 flexible production

先進的鑄造生產線及多條加工柔性生產線，滿足售後市場多品種小批量的需求  
with advanced foundry line and multi machining flexible lines, we can meet the demand of variety of orders and samll batches of aftermarkets.

3

### OE經驗 OE experience

具備多年OE設計與生產經驗，有完善的质量保證體系。  
with many years of OE design and production experience, we have quality assurance systems

# ECE R90证书

ECE R90 CERTIFICATE

认证范围  
scope

36组产品认证  
36 groups of products certification

已取得证书  
Certificate obtained

进度  
schedule

ECE-R90  
认证  
certification

涵盖2600多种制动盘  
1000多种ZF制动盘  
covering over 2600 kinds of discs,  
over 1000 kinds of ZF discs

产品种类  
products

产品范围

PRODUCT SCOPE



直径范围 Diameter: 230-370mm  
成品重量 weight: 2.3-16Kg



制动盘厚度 thickness: 6-35mm  
制动轮位置 position: F/R



直径范围 Diameter: 380-430mm  
成品重量 weight: 17-41Kg

复合盘项目 COMPOSITE BRAKE DISC PROJECT



螺栓连接  
Bolted connection



铆钉连接  
Riveted connection



铝&灰铸铁联合铸造  
Aluminum&grey iron  
joint casting



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Website: [www.cctemo.com](http://www.cctemo.com)