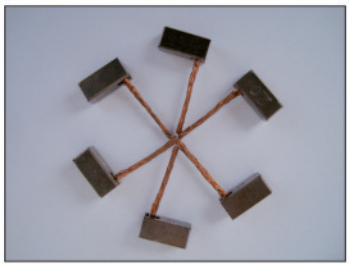
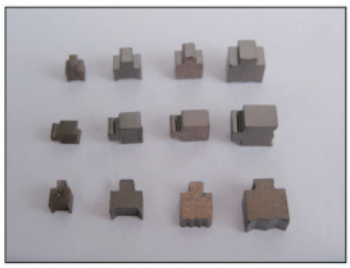
DONGRUN POWDER METALLURGY

— Professional Manufacturer for Carbon Brush & Bearing

东润粉末冶金

—— 炭刷、含油轴承专业制造商

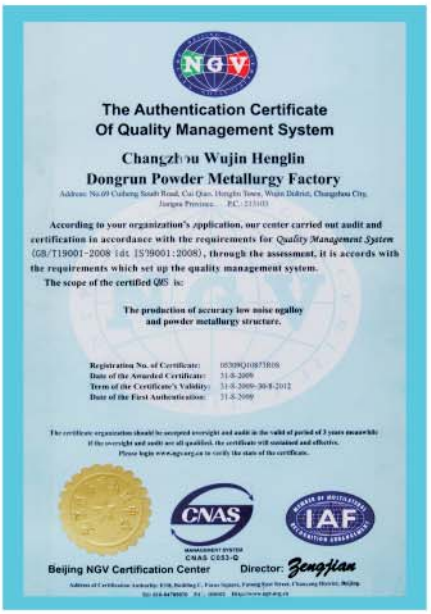




0.25模数齿轮

www.szdongrun.com

About DongRun



The Authentication Certificate
Of Quality Management System

Changzhou Wujin Henglin
Dongrun Powder Metallurgy Factory

Address: No.69 Cuihong South Road, Cui Qiao, Henglin Town, Wujin District, Changzhou City, Jiangsu Province. P.C.: 213103

According to your organization's application, our center carried out audit and certification in accordance with the requirements for *Quality Management System* (GB/T19001-2008 idt ISO9001:2008), through the assessment, it is accords with the requirements which set up the quality management system.

The scope of the certified QMS is:

The production of accuracy low noise ngalloy and powder metallurgy structure.

Registration No. of Certificate: 05309Q10873R0S
Date of the Awarded Certificate: 31-8-2009
Term of the Certificate's Validity: 31-8-2009-30-8-2012
Date of the First Authentication: 31-8-2009

The certificate organization should be accepted oversight and audit in the valid of period of 3 years meanwhile if the oversight and audit are all qualified, the certificate will sustained and effective.
Please login www.ngcv.org.cn to verify the state of the certificate.

CNAS
CNAS C053-Q
IAF

Beijing NGV Certification Center Director: Zengjian

ISO9001

质量管理体系认证证书

常州市武进区横林东润粉末冶金厂

根据贵组织的申请，经本中心依据《质量管理体系 要求》(GB/T19001-2008 idt ISO9001:2008)规定实施认证审核，经评定，建立的质量管理体系符合标准要求。

通过认证的范围为：

精密低噪音含油轴承、粉末冶金结构件的生产。

证书编号： 05309Q10873R0S
证书颁发日期： 2009年8月31日
证书有效日期： 2009年8月31日至2012年8月30日
初次认证日期： 2009年8月31日

CNAS
CNAS C053-Q
IAF

北京惠格威认证中心 主任：

ISO9001

DongRun Corp. Ltd. was found in 2002 who is focusing on the manufacture and R&D of oil impregnated bearing and carbon brush.The company headquarter is located at ChangZhou City, JiangShu Province with building area of 3500㎡,and there are 58 employees, of which 5 are for engineering R&D, 10 for company management. The company has a monthly capacity of 15,000,000pcs carbon brush as well as 35,000,000pcs bearing, the products are widely be used by customers from both local and oversea market.

DongRun (ShenZhen) Metal Corp. Ltd. was found in 2006 for high performance and long life carbon brush R&D and got great success. Both brush performance and life can reach or even exceed the competitor's products from Germany, France and Japan. And DongRun provides customized design and service to meet customer's special requirements.

The company was authorized the certificate of ISO9001 Quality Management System in 2006,we followed by the principle of "Quality First; Scientific Management; Continuous Innovation" to provide better product and service to each customer. And we will deliver higher quality and value products by means of quicker R&D and more stable process control in the future to make customers more successful. Meanwhile, DongRun will reach it's version of "To Be The World-class Powder Metallurgy Bearing and Carbon Brush Supplier".

东润公司简介

东润公司成立于2002年，本公司致力于专业含油轴承和炭刷的研发及生产。公司总部位于江苏常州，建筑面积3500㎡，员工58人，其中研发人员5人，管理人员10人。现已达到月产炭刷1500万只，含油轴承3500万只的生产能力，产品已得到海内外各知名马达厂商的认可和广泛应用。

应市场要求于2006年创立了深圳东润金属制品有限公司，针对长寿命高性能炭刷进行了研发并获得巨大成功，产品性能和寿命达到甚至超越德国、法国、日本同类进口产品的水平，并可根据客户要求设计和定制特殊要求的炭刷产品。

本公司于2006年通过ISO9001认证，公司秉承“品质第一，科学管理，持续创新”的经营理念，服务于广大客户。并将以更快的研发，稳定而坚如磐石的品质为客户提供更高水平的高附加值产品，在帮助客户取得成功的同时，达成“东润公司成为世界级粉末冶金含油轴承和炭刷产品供应商”的宏图远见。

DongRun Carbon-brush

炭刷成型车间
Carbon brush compaction workshop

恒温恒湿材料仓库
Raw Material store
under temperature and humidity control

专业的恒温恒湿炭刷成型车间为炭刷成型时提供了稳定的环境，保证炭刷批量生产时的稳定性和一致性。

Temperature & humidity control of compaction workshop contributes to the carbon brush quality consistence from batch to batch.

成型模具测量
Tool Measurement

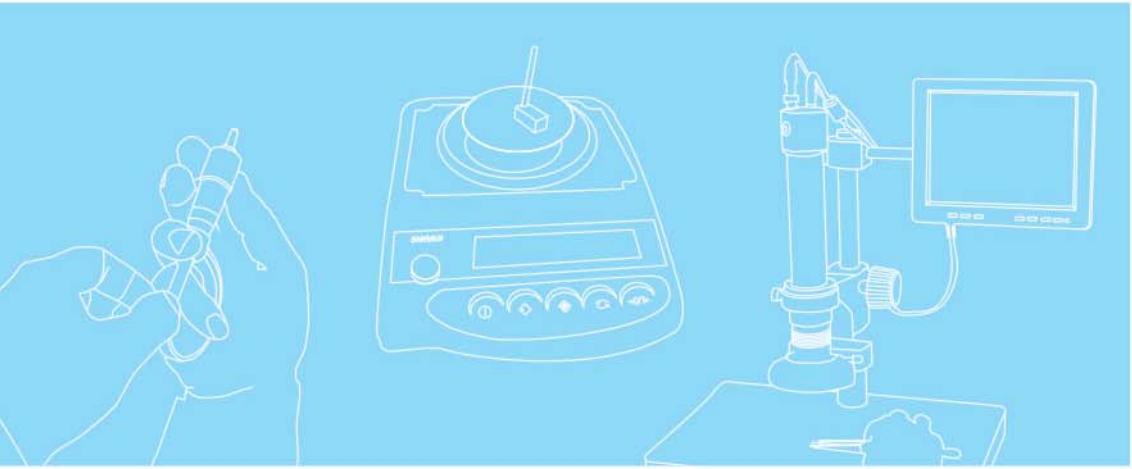
模具的有序管理
Tool management

东润炭刷常用材质性能/Carbon Brush Grades Information

2系列炭刷 /Carbon brush for #200 motor application

材质 Grade	适用电压 Voltage (V)	电阻率 Resistivity (μ Ω Cm)	金属含量 Metal Content (%)	适用产品 Application
A601 B601	DC:1.2-6.0	50	60	开瓶器，牙刷，玩具车 Bottle openner, Tooth brush, Motorized toy
A501 B501	DC:3.0-12.0	100	50	扫描仪，汽车光轴调整，后视镜调整，中控锁，自动喂食器 Scanner, Folding outside mirrors, Central locks, Fish feeder
A401 B401	DC:9.0-18.0	250	40	中控锁，玩具机器车，机器人 Centra locks, Motorized toy, Robot
A302 B302	DC:12.0-24.0	300	35	ATM机器，支票打印机，自动售买机，吸尘器机器人，后视镜调整，按摩器，开水泵 ATM machine, Check writer, Vending machine, Vacuumt, Auto mirror adjuster, Massager, Water pump
A201 B201	DC:16.0-36.0	1200	20	热风枪，风筒，小型打印机，切纸机 Hot air gun, Hair Dryer, Printer, Paper cutter

东 润 炭 刷



辫子炭刷成型尺寸管控
Dimension control

对模具精确的测量和科学的管理，以确保炭刷成型时的外型尺寸精度，成型现场严格的单重管控确保产品密度和性能的一致性。

Tool size measurement and scientific management results in high precision brush size and outline profile, and the strict control on unit weight during compaction process ensures the consistence of carbon brush density and other properties.

辫子炭刷成型重量管控
Unit weight control

东润炭刷常用材质性能/Carbon Brush Grades Information

3系列炭刷 /Carbon brush for #300 motor application

材质 Grade	适用电压 Voltage (V)	电阻率 Resistivity (μ Ω Cm)	金属含量 Metal Content (%)	适用产品 Application
A601 B601	DC:2.4-6.0	50	60	气压泵，电动起子，玩具车 Air pump, Screw driver, R/C car
A501 B501	DC:6.0-12.0	100	50	玩具直升机，玩具车，汽车遮阳帘 Motorized toy, Auto visor curtain
A401 B401	DC:9.0-18.0	250	40	自动窗帘机，开窗器，打印机，热风筒，扫地机，自动螺丝机，车载吸尘器，泵浦 Automatic curtain machine, Window openner, Printer, Dryer, Brush roll, Screw driver,Auto vacuum, pump
A302 B302	DC:12.0-24.0	300	35	ATM机器，自动售买机，喷墨水泵，齿轮泵 ATM machine, Vending machine, Water pump, Gear pump
A301	DC:18.0-24.0	400	30	风筒（特别为长寿命风筒设计） Hair Dryer (Especially for long life)
A201 B201	DC:16.0-36.0	1200	20	热风枪，打印机，打蛋机 Hot air gun, Printer, Blender

品字型炭刷成型尺寸管控
Dimension control

品字型炭刷成型重量管控
Unit weight control

模具的检测
Tool Measurement

模具的有序管理
Tool management

品字型炭刷成型尺寸管控
Dimension control

品字型炭刷成型密度管控
Unit weight control

东润炭刷编号方法
Coding system

B301-31

- B — 材料 Material type
- 30 — 含铜量 Cu%
- 1 — 马达系列 Motor serials
- 31 — 对应系列第一款尺寸 No.

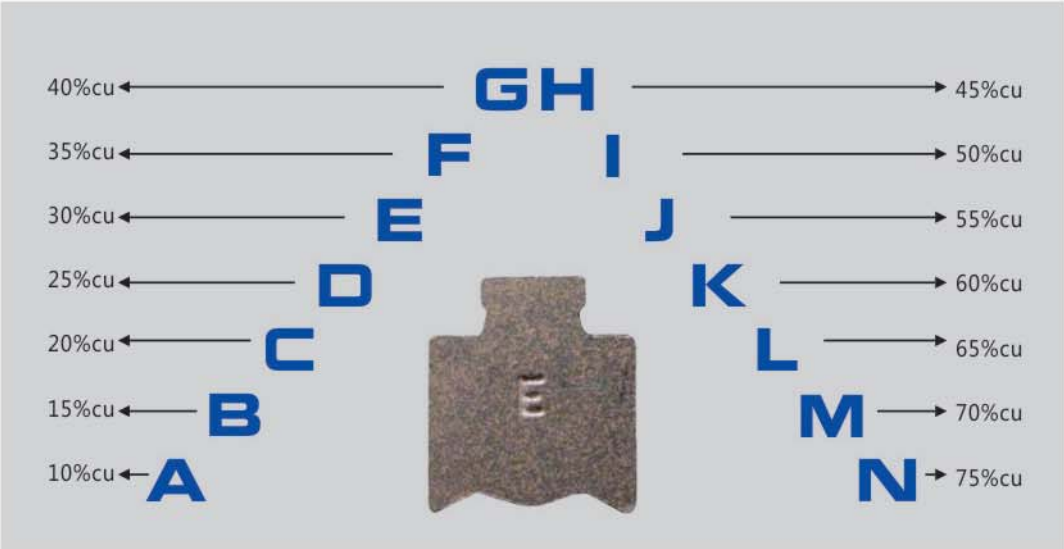
东润炭刷常用材质性能/Carbon Brush Grades Information

5系列炭刷 /Carbon brush for #500 motor application

材质 Grade	适用电压 Voltage (V)	电阻率 Resistivity (μ Ω Cm)	金属含量 Metal Content (%)	适用产品 Application
A601 B601	DC:2.4-6.0	50	60	充电式吸尘器，锂电池电动工具 Battery vacuum, Battery Power tools
A501 B501	DC:6.0-12.0	100	50	自补胎气泵，电动工具，钻木机械 Tire pump, Power tools, Wood drills
A401 B401	DC:9.0-18.0	250	40	家用吸尘器，泵浦，挤压式按摩器 Vaccum, Pump, Massager
A302 B302	DC:12.0-24.0	300	35	ATM机器，自动售买机，喷墨水泵，齿轮泵，打印机，长寿命电动工具，冲击钻 Power tool(long life), ATM machine, Vending machine,water pump, gear pump, Printer
A201 B201	DC:16.0-36.0	1200	20	热风枪，风筒，小打印机，打蛋机 Hot air gun, Hair Dryer, Printer, Blender
A101	DC:36.0-120.0	8000	10	碎纸机，高压风筒，咖啡机，医疗床，切割机 Paper shredder, HVDC hair dryer, Coffee machie, Medical bed, Power tools

东 润 炭 刷

东润炭刷含铜量标识对应图
Mark vs cu%



辫子炭刷尺寸管控
Dimension control

辫子炭刷成型重量管控
Unit weight control

东润炭刷常用材质性能/Carbon Brush Grades Information

7系列炭刷 /Carbon brush for #700 motor application

材质 Grade	适用电压 Voltage (V)	电阻率 Resistivity (μ Ω Cm)	金属含量 Metal Content (%)	适用产品 Application
A601 B601	DC:6.0-10.8	50	60	锂电池电动工具 Battery Power tools
A501 B501	DC:9.0-12.0	100	50	自补胎气泵，电动工具，空压机 Tire pump, Power tools, Air Compressor
A401 B401	DC:12.0-18.0	250	40	自动天线，抽痰机，喷雾器，水泵 Automatic antenna, Suction machine,Sprayer, water pump
A302 B302	DC:12.0-24.0	300	35	影印机，仪器仪表，织毛毯机 Photocopier, Instrument and meter, Blanket Knitting machine
A201 B201	DC:16.0-36.0	1200	20	静音式按磨器，高压电动工具 Massager, HVDC power tools
A101	DC:36.0-120.0	8000	10	电动工具，清洗设备，料理机 Power tools, Cleanning machine, Blender

炭刷烧结
Carbon brush sintering

炭刷电阻率检测
Resistivity Measurement

炭刷寿命测试
Carbon brush life test

东润炭刷常用材质性能/Carbon Brush Grades Information

刷辫式结构 /Carbon brush with shunt wire

材质 Grade	适用电压 Voltage (V)	电阻率 Resistivity (μ Ω Cm)	金属含量 Metal Content (%)	适用产品 Application
A501 B501	DC:6.0-12.0	100	50	自补胎气泵，可换炭刷电动工具 Tire pump, Power tools
A401 B401	DC:9.0-18.0	250	40	泵浦，割草机，剪枝机，开门器 Pump, Power mower, Brush trimmer, Gate operator
A302 B302	DC:12.0-24.0	300	35	电动工具，冲击钻，电动缝纫机 Power tools, Sewing maching
A201 B201	DC:16.0-36.0	1200	20	碎纸机，打蛋器，自动卷帘机 Paper shredder, Blender, Automatic curtain
H101 A101	AC/DC:80.0-220	8000	<10	豆浆机，汽车工具 Soya-bean milk machine, Blender, Auto tools

炭刷寿命测试
Carbon brush life test

成功案例 Successful Case

A401-725

A401-725

此款炭刷是为世界知名电动工具马达而设计的炭刷。

-DC18.0V，负载15.5A, 转速15000RPM，连续运行159H。

-DC20.0V，负载25.0A，以开5秒停5秒持续运行，累计运行寿命34H。

- DC18.0V, Loading 15.5A,15000RPM continuously running 159h
- DC20.0V, Loading 25A, 5S on/5S off, running 34h (on time).

A101-73

A101-73

此款炭刷是为豆浆机马达开发的一款长寿命炭刷,电压220V，空载15000-22000，负载11000~15000RPM, 0.2~0.6A,持续寿命180小时以上

This brush is designed for a famous local soybean milk machine motor maker; 220V AC, free load : 15000~22000 RPM,0.2~0.6A.rated load speed: 11000~15000rpm,1.0~1.5A,motor running time more than 180h (on time).

成功案例
Successful Case

B301-31

此款炭刷是为DC风筒马达365、385设计的长寿命炭刷，DC36V，负载电流1.75A，负载转速18500RPM，开15分钟停5分钟，累计开机时间500小时以上。

This brush is designed for hair dryer application. 36V DC, loading current 1.75A, speed 18500RPM, 15min on/5min off, total running time more than 500h (on time).

B301-31

B501-51

此款炭刷是为汽车打气泵马达540、550而开发的一款长寿命炭刷，DC12V，负载5.6A，13800 rpm，持续运转1290小时以上。

The carbon brush is designed for Auto pump motor application, 12V DC, loading current 5.6A,13800RPM, continuously running for more than 1290h.

B501-51

A501-51

此款炭刷是为电动工具5系列马达所设计的长寿命炭刷，DC10.8V，负载18A，19500rpm，连续运转140H 以上

The carbon brush is designed for long life power tool application, 10.8V DC, loading current 18A, 19500rpm, continuously running for more than 140H.

A501-51 A501-52

备注: 以上参数均经客户多次马达测试而取得，但不同客户因马达设计的不同可能导致结果与上述数据有所不同，属于正常现象。

Remark: The data above were obtained by repeated motor test from our customers. However, even for the same application, because the motor design is different from customer to customer, so it is normal that there will be a deviation when it is applied for a different designed motor.

东润含油轴承

轴承成型车间
Oil bearing compaction workshop

MIO N30
震动马达
Vibration motor

	内孔	外径	高度	材质
机壳轴承	$\Phi1.0^{+0.006}_{+0.002}$	Φ3.14	1.4	BCF或YBF
后盖轴承	$\Phi1.0^{+0.004}_{+0.000}$	Φ3	1	BCF或YBF
机壳轴承	$\Phi1.5^{+0.006}_{+0.002}$	Φ5(4)	2.1	Cu或YBF
后盖轴承	$\Phi1.5^{+0.004}_{+0.000}$	Φ3.5	1.5	Cu或YBF

成型模具测量
Tool measuremeat

FF-030 SR-020
震动马达
Vibration motor

	内孔	外径	高度	材质
机壳轴承	$1.5^{+0.006}_{+0.000}$	4	1.7	BCF或YBF
后盖轴承	$1.5^{+0.004}_{+0.000}$	3.5	1.7	BCF或YBF
机壳轴承	$1.5^{+0.006}_{+0.000}$	Φ5.4	1.6	Cu或YBF
后盖轴承	$1.5^{+0.004}_{+0.000}$	Φ4	1.7	Cu或YBF

180/130 280/310
玩具马达系列
Toy motor

	内孔	外径	高度	材质
机壳或后盖轴承	$2^{+0.012}_{+0.008}$	$5.43^{+0.01}$	1.8	YBF
			1.9	BCF

轴承成型
Bearing compaction

500/530
音响马达系列
Audio / vedio motor

	内孔	外径	高度	材质
机壳轴承	$2^{+0.006}_{+0.000}$	5.45	2.2	BCF或YBF
后盖轴承	$2^{+0.004}_{+0.000}$	5.45	2-5	BCF或YBF

轴承成型尺寸管控
Dimension control

POS机 15BY
同步马达系列
Synchronous motor

	内孔	外径	高度	材质
机壳轴承	$1.5^{+0.006}_{+0.002}$	5(6)	2.2	YBF
机壳轴承	$1.5^{+0.006}_{+0.002}$	5(6)	2.6	YBF
后盖轴承	$1.5^{+0.004}_{+0.001}$	Φ4(5)	2	YBF

轴承成型密度管控
Density Control

东润含油轴承

360 365 380 385

马达
300# Motor

	内孔	外径	高度	材质
机壳轴承	$2.3^{+0.008}_{+0.004}$	9	3	YBF低澡音
后盖轴承	$2.3^{+0.006}_{+0.002}$	sΦ6	4.4	BCF高速耐磨 23000转
机壳轴承	$2.3^{+0.008}_{+0.004}$	9	3	BCF高速耐磨 23000转
后盖轴承	$2.3^{+0.006}_{+0.002}$	sΦ6	4.4	BCF高速耐磨 23000转

540 545 550 555

马达
500# Motor

	内孔	外径	高度	材质
机壳轴承	$3.175^{+0.009}_{+0.006}$	12	4	YBF低澡音
后盖轴承	$3.175^{+0.002}$	7	4	YBF低澡音
机壳轴承	$3.175^{+0.009}_{+0.006}$	12	4	BCF高速耐磨 28000转
后盖轴承	$3.175^{+0.002}$	7	4	BCF高速耐磨 28000转

汽车摇窗电机其中一款

Auto window lift motor

	内孔	外径	高度	材质
机壳轴承	$3.17^{+0.010}_{+0.06}$	12	4	YBF低噪音
后盖轴承	$3.175^{+0.006}_{+0.002}$	11.54	4	YBF低噪音
葫芦轴承	$3.175^{+0.006}_{+0.002}$	7	5	YBF低噪音

球型含油轴承

Spherical bearing

内孔×球径×高 公差材质应客户要求而定(部分规格)

I.D. x O.D. x Height, tolerance and grade can be customized

内孔	球径	高	内孔	球径	高	内孔	球径	高
2	4	2.2	4	10	7	6	10	7
2.3	6	4	4	11	7	6	11	7
3.175	7	4	4.5	10	7	6	12	8
3.175	7	5	4.5	11	7	6.35	12	8
4	9	5	5	10	7	6.35	13	8
4	9	6	5	11	7	8	16	11
4	9	7	5	12	8	8	16	12

备注: YBF材质噪音较好，BCF材质成本较低，尺寸公差及使用油品可跟客户要求定制。

Note: YBF grade is for low noise application, BCF grade is of low cost, tolerances and oil can be customized.

轴承烧结管控
Bearing sintering

轴承面打去毛刺管控
Bearing de-burring

精整模具测量
Tool Measurement

精整模具管理
Tool Management

轴承油孔管控手段
Bearing pore grade control

DC风扇含油轴承(部分规格) 公差材质应客户要求而定

Bearing for DC fan motor (tolerance and material customized)

内孔	外径	高度	结构		外型	
2	5	3.7	液压			
2	5	4.2	液压			
2	5	4.5	带槽液压			
2	5	6	带槽液压		单面尖	两头尖
3	7	6	带槽液压		单面尖	两头尖
3	7	8	液压	中空	单面尖	两头尖
3	7	9	液压	中空	单面尖	两头尖
3	7	10	液压	中空	单面尖	两头尖
3	7	16	液压	中空	单面尖	两头尖
3	8	4	带槽液压		单面尖	两头尖
3	8	10	液压	中空	单面尖	两头尖
3	8	12	液压	中空	单面尖	两头尖
3	8	16	液压	中空	单面尖	两头尖

轴承精整车间
Bearing sizing workshop

轴承精整
Sizing process

轴承精整尺寸管控
Dimension control

轴承精整尺寸管控
Dimension control

轴承超声波清洗
Ultrasonic cleaning

轴承真空浸油
Vaccum oil impregnation process

果汁机、豆浆机系列轴承类(部分规格) 公差材质应客户要求而定

Bearing for juice machine , soya-bean milk machine, blender (tolerance and material customized)

产品图号	规　　格
0801	30×20×6
0802	Φ10×Φ13×(Φ16×2)×11
0803	Φ9×扁7.3×Φ13×10
0804	Φ9×13×10
0805	8×15.6×17×5
0806	Φ25.23×Φ28.4×38
0807	Φ10.29×Φ13.5×23.8
0808	
0809	Φ8.75×Φ12.55×(Φ17×1.2)×9.27
0810	Φ9.75×Φ13.44×(Φ17.5×1.2)×9.27
0811	Φ9.96×Φ12.07×(Φ17.45×1.02)×6.6
0812	Φ40×Φ50×14
0813	Φ63×Φ45×(Φ55×3)×14
0901	Φ6×Φ11.3×22
0901	Φ6×Φ11.3×22
0901长	Φ6×Φ11.3×25
0902	Φ8×Φ13×22
0902	Φ8×Φ13×22
0903	Φ6×Φ10×(Φ12×2)×19
0904	Φ8×Φ15×10
	Φ8×Φ15×14
0905	Φ10×Φ13×17
0906	Φ4.1×Φ8.3×(Φ10.5×1.5)×7.5
0907	Φ10×Φ14×(Φ16.4×2)×6

产品图号	规　　格
0908	Φ6×Φ11.3×17
0909	Φ20.1×Φ30×(Φ36×2)×14.1
0910	Φ14×Φ22×15
0911	Φ25×Φ30×20
0912	Φ8×Φ16×18
0913	Φ38.1×Φ42.24×7.11 凸台尺寸2.39×2.74
0914	Φ9.6×(Φ18.9×Φ19)×Φ(21.5×1.5)×12.7
0915	Φ7×Φ10×(Φ13×1)×13.5
0916	Φ8×Φ12×(Φ15×1)×21
0917	Φ6.96×Φ18×4
0918	Φ6×Φ11.3×21
0919	Φ10×Φ16.4×(Φ23.4×5.2)×17
0920	Φ19×Φ25.4×(Φ30.5×2.1)×17
0921	Φ6×Φ11.2×(Φ14×2)×20
0921	Φ6×Φ11.2×(Φ14×2)×20
0922	Φ9.6×(Φ15.8×14.3扁）×（Φ19×1.5）×14
0923	Φ9.7×Φ15.8×（Φ22×1.8）×8
0924	Φ8×Φ12×（Φ15×1）×19.8
0925	Φ8+0.03 +0.01×Φ12$^{+0.01}$×24±0.1
0926	Φ6.5+0.03 +0.01×Φ12$^{+0.01}$×14.5$^{\pm0.1}$
0927	Φ8+0.03 +0.01×Φ16$^{-0.02}$7×16.5$^{\pm0.1}$
0928	Φ12×Φ16×31
0929	6Φ+0.03 +0.01×Φ11.2$^{+0.01}$（Φ14×2）×20
0930	Φ9+0.05 +0.02×Φ13+0.051 +0.033×9$^{\pm0.05}$

产品图号	规　　格
0931	Φ10+0.028 +0.013×Φ14+0.046 +0.028×11$^{-0.2}$
0932	
0933	
0934	Φ19$^{+0.05}$×Φ25$_{-0.05}$×28$_{-0.5}$
0935	Φ14$^{\pm0.01}$×Φ20$^{+0.03}$×（Φ25×3）×20
0936	Φ5$^{+0.02}$×Φ15+0.015 -0.01×（Φ16.5×2）×10$^{\pm0.1}$
0937	Φ8$^{+0.02}$×Φ15+0.015 -0.01×（Φ16.5×2）×10$^{\pm0.1}$
0938	Φ8.45$^{+0.01}$×Φ12.8-0.05 -0.1×6$^{+0.01}$
0939	Φ31.75$^{+0.01}$×Φ34.92$^{+0.03}$×20.32$^{+0.12}$
0940	Φ19.05$^{+0.01}$×Φ22.22$^{+0.03}$×25.14$^{+0.12}$
0941	Φ6+0.03 +0.01×Φ13+0.05 +0.03×17.5$^{\pm0.1}$
0941	Φ6+0.03 +0.01×Φ13+0.05 +0.03×17.5$^{\pm0.1}$
0942	Φ6×Φ11.2×22
0943	Φ6+0.03 +0.01×Φ12+0.05 +0.03×20$^{\pm0.1}$
0943	Φ6+0.03 +0.01×Φ12+0.05 +0.03×20$^{\pm0.1}$
0944	Φ8+0.03 +0.01×Φ14+0.03 +0.01×10.5$^{\pm0.1}$
0945	Φ5.4+0.02 +0.01×Φ9.4$^{+0.02}$×10.5
0903	Φ6×Φ10×(Φ12×2)×19
0902	Φ8×Φ13×22
0901长	Φ6×Φ11.3×25
0901	Φ6×Φ11.3×22
0903BT短	Φ6×Φ10×(Φ12×2)×13.5
C801	

产品图号	规　　格
1001	Φ6+0.03 +0.01×Φ12+0.05 +0.03×21.5$^{\pm0.1}$
1002	Φ6+0.03 +0.01×Φ11.3+0.03 +0.01×18$^{\pm0.1}$
1003	Φ6+0.03 +0.01×Φ10+0.025 +0.005×(Φ12×2$^{+0.05}$)×11$^{\pm0.1}$
1004	Φ8$^{+0.03}$×Φ15$^{+0.015}$×13$^{\pm0.1}$
1004长	Φ8$^{+0.03}$×Φ15$^{+0.015}$×17
1005A	Φ8$^{+0.03}$×Φ12+0.05 +0.03×12$^{\pm0.1}$
1005B	Φ8$^{+0.03}$×Φ12+0.05 +0.03×13$^{\pm0.1}$
1006A	Φ8$^{+0.03}$×Φ14+0.03 +0.01×8$^{\pm0.1}$
1006B	Φ8$^{+0.03}$×Φ14+0.03 +0.01×8$^{\pm0.1}$
1007	Φ8-0.05 -0.08×Φ11$^{\pm0.01}$×(Φ12×4拉丝)×16$^{\pm0.1}$
1008	Φ11+0.03 +0.01×Φ15.15+0.05 +0.03×12.5-0.05
1009	30×30
1010	Φ5+0.018 0×Φ7+0.02 -0.02×(Φ9×0.5)×3
1011	Φ10 +0.03 0×Φ15.5 +0.03 0×10±0.1
1012	（Φ8 +0.03 0×6.5+0.15 +0.05）×Φ32×10
1013	（Φ6 +0.03 0×5+0.15 +0.05）×Φ14×10
1014	Φ6+0.03 +0.01×Φ11+0.04 +0.02×9
1015A	Φ4+0.026 +0.014×Φ10+0.038 +0.023×10±0.1
1015B	Φ4+0.026 +0.014×Φ10+0.038 +0.023×20±0.1
1016A	Φ8+0.025 0 ×Φ15+0.045 -0.026×25.8±0.1
1016BF/BT	Φ8+0.02 0×Φ15+0.045 -0.026×29±0.1
1017BF	Φ8+0.02 0×Φ13+0.05 +0.02×15
1018	Φ8.6+0.05 -0.05×(Φ22+0.025 +0.01×10) ×18$^{\pm0.1}$
1019	Φ14+0.03 +0.01×Φ22+0.043 +0.022×20±0.1

产品图号	规　　格
1019	Φ14+0.03 +0.01×Φ22+0.043 +0.022×20$^{\pm0.1}$
1020	Φ5+0.03 +0.01×Φ12+0.05 +0.03×10$^{\pm0.1}$
1021	Φ8+0.03 +0.01×Φ15$^{+0.01}_{0}$×15±0.1
1022	Φ6+0.03 +0.01×Φ10+0.025 +0.005×(Φ12×2)×20$^{\pm0.1}$
1023	Φ6+0.03 +0.01×Φ11.3+0.03 +0.01×20.5$^{\pm0.1}$
1024	Φ8..255×Φ12.7
1025	Φ8+0.03 +0.01×Φ13$^{+0.01}_{0}$×18.5±0.1
1026	Φ8-0.05 -0.1×Φ11.15 +0.05 0×6.55±0.1
1027	Φ12.76$^{0.05}$×Φ15.92$^{+0.05}$×（Φ20.5$^{+0.5}$×1.7$^{+0.05}$）×8±0.1
1028	Φ6×Φ10×（Φ13×3）×4.5
1029	Φ25+0.08 0×Φ33.88$^{+0.02}$×（Φ38.1$^{+0.1}$×4.76$^{+0.13}$）×15.88+0.1 -0.05
1030	Φ29.5+0.08 +0.06×Φ33+0.03 0×15-0.1 -0.2
1031	Φ25+0.08 +0.06×Φ28+0.03 0×5.5±0.05
1032	Φ12+0.02 0×Φ14+0.03 0×5.5±0.07
1033	
1034	Φ10+0.03 +0.02×Φ14+0.025 +0.015×14$^{\pm0.1}$
1035	
1036	Φ6+0.03 +0.01×Φ11+0.04 +0.01×20$^{\pm0.1}$
1037	Φ8-0.005 -0.02×Φ17+0.02 +0.005×12$_{0.1}$
1038	Φ6+0.03 +0.01×Φ10+0.04 +0.01×8$^{\pm0.1}$
1039	Φ10.2+0.1 0×Φ150 -0.1×(Φ200 -0.1×2$^{\pm0.05}$)×12$^{\pm0.1}$
1040	Φ8.2+0.1 0×Φ150 -0.1×(Φ200 -0.1×2$^{\pm0.05}$)×12$^{\pm0.1}$
9469	Φ6.35+0.012 +0.005×SΦ13+0.05 -0.05×8$^{\pm0.1}$
9831	Φ8+0.012 +0.005×SΦ13+0.05 -0.05×8$^{\pm0.1}$

产品图号	规　　格
1101	
1102	Φ8+0.03 +0.01×Φ13+0.05 +0.02×19$^{\pm0.1}$
1103	Φ8.08$^{\pm0.01}$×Φ10.05$^{\pm0.01}$×(Φ15.5×1) ×15$^{\pm0.1}$
1104	Φ8.08$^{\pm0.01}$×Φ10$^{\pm0.03}$×(Φ15×1) ×5$^{\pm0.1}$
1105	Φ8.08$^{\pm0.01}$×Φ10.15$^{\pm0.01}$×(Φ15×1) ×5$^{\pm0.1}$
1106	Φ9.15$^{\pm0.01}$×Φ11.15$^{\pm0.01}$×(Φ15.5×1) ×7.4$^{\pm0.1}$
1107	Φ8.18$^{\pm0.01}$×Φ11.05$^{-0.1}$×(Φ15×11.2) ×9.5$^{\pm0.1}$
1108	Φ9.65$^{\pm0.01}$×Φ12.75$^{\pm0.01}$×(Φ18×1.4) ×7$^{\pm0.1}$
1109	Φ11.45$^{\pm0.01}$×Φ14.1齿×(Φ19×1.1) ×6.3$^{\pm0.1}$
1110	Φ8+0.03 0×Φ120 -0.03×（(Φ26.8×16扁) ×3）×10.5$^{\pm0.03}$
1111	Φ20+0.15 +0.1×Φ26+0.045 +0.022×35$^{\pm0.1}$
1112	Φ9.9$^{-0.1}$×Φ11.85$^{-0.1}$×(Φ16×1.2) ×5.7$^{\pm0.08}$
1113	Φ10$^{-0.1}$×Φ12.25$^{-0.1}$×(Φ17.6×1) ×5.4$_{0.1}$
1114	Φ14.1$^{-0.1}$×Φ16.1$^{-0.1}$×(Φ20.5×1) ×4.80 -0.1
1115	Φ10.3$^{-0.2}$×Φ17.6×0.8$^{\pm0.04}$
1116	Φ14.3×Φ20.5×0.8$^{\pm0.04}$
1117	Φ6+0.03 +0.01×Φ11.2$^{+0.02}$×25$^{\pm0.1}$
1118	Φ8+0.03 +0.01×Φ15+0.03 +0.01×13
1119	Φ8×Φ13×18.5
1120	Φ9.6$^{-0.1}$×Φ14+0.05 +0.03×(Φ22×8) ×15
1121	Φ6.2+0.03 +0.01×Φ8.5+0.03 0×3.5+0.05 -0.1
1122	Φ8+0.019 +0.006×SΦ18+0 -0.1×10 （两头0.5高头径*外径Φ12)
1123	Φ8+0.03 +0.01×Φ11.5+0.05 +0.02×17±0.1

真圆度检测
Roundness measurement

轴承油孔分布控制管控
Pore grade measurement

轴承同心度检测管控
Concentricity measurement

轴承垂直度检测管控
Perendicularity measurement

轴承含油量检测管控
Oil content measurement

轴承抗压测试管控
Crack force measurement

深圳市东润金属制品有限公司
地址：深圳市松岗镇山门第三工业区鑫永盛科技园
电话：0755-2732 2732
传真：0755-3669 3779
邮箱： sales@szdongrun.com
网址：www.szdongrun.com

ShenZhen DongRun Metal Products Co., LTD.
Add:XinYongSheng Industrial Park,ShanMeng Village,SongGang Town,ShenZhen City,GuangDong Province,P.R.C
Tel:0755-2732 2732
Fax:0755-3669 3779
E-mail:sales@szdongrun.com
http://www.szdongrun.com

常州东润粉末冶金制品有限公司
地址：江苏省常州市武进区横林镇崔桥崔横南路69号
电话：0519-8850 1282
传真：0519-8872 2282
邮箱：sales@szdongrun.com

DongRun(ChangZhou) Powder Metalluray Co.,LTD.
Add:No.69,CuiHeng South Rd,CuiQiao Village,HengLin Town, WuJin District,ChangZhou City, JiangShu Proviace,P.R.C.
Tel:0519-8850 1282
Fax:0519-8872 2282
E-mail: sales@szdongrun.com

东润公司驻浙江余姚办事处
地址：浙江省余姚市阳明街道二高路于巷52号
电话：0574-6285 6186
传真：0574-6285 6186
邮箱：sales@szdongrun.com

DongRun In ZheJiang YuYao Office
Add: No.52,YuXiang,ErGao Rd,YangMing Street,YuYao City, ZheJiang Province,P.R.C.
Tel:0574-6285 6186
Fax:0574-6285 6186
E-mail: sales@szdongrun.com