

Delivery Note

Number	Part Name	Part Number	Delivery Quantity	Packaging Box	Delivery Date	Recipients
1	Thrust-washer	PD5C-7407-AA	552	1*552 共1件	2024-3-29	Gianluca De Crescenzo

Supplier:

Date: 2024.03.29



Transporter:

Date:

Receiving Warehouse:

Date:

120367619
5013476737
345035

KUEHN+KOGEL S.R.L.
Via dei Ciampini, snc - 70026 Modugno (BA)

03 MAG 2024

"Ricevuto con riserva di
verifica su qualità e quantità"

Magna PT S.p.A., Via dei Ciclamini 4, I-70026 Modugno (Bari)

Zhejiang Dazhong
Standard Component Co., Ltd.
No.81 wansheng Road
325400 WANQUAN TOWN, WENZHOU CITY
CINA

PO number:

Date:

Your Vendor Number:

Our VAT registr.no:

Our reference:

Buyer:

Telephone:

Fax:

Email:

Billing Address:

Magna PT S.p.A.
Via dei Ciclamini,n.4
70026 Modugno (BA)
Italy

Delivery Address:

Magna PT S.p.A.
Plant Modugno
Via dei Ciclamini 4
70026 MODUGNO BA
ITALY

Purchase order**No.: 4500682933**

Delivery Date:

Day 2024/03/31

Item	Material Description	Order Quantity	Unit	Price per-unit EUR	Value EUR
01	PD5C-7407-AA THRUST WASHER THRUST WASHER Revision level 00	500	Piece		
02	PD5C-7407-AA THRUST WASHER THRUST WASHER Revision level 00	52	Piece		

Total net value excl. tax EUR

Magna PT S.p.A.
a socio unico
Via dei Ciclamini 4
I-70026 Modugno (Bari)
Tel. 080 - 5 85 81 11
Fax 080 - 5 85 82 04

Cap.Soc.: EUR 25.850.000,00
i.v.R. Imprese di Bari
C.F. e P.IVA 04886850728
REA 339886
www.magna.com

EUR: BNL-Banca Nazionale del Lavoro SpA
IBAN code EUR: IT94 V010 0504 0000 0000 0007 855
BIC code: BNLIITRR 6560 12
USD: Bank of America N.A.
IBAN code USD: GB64 BOFA 1650 5071 1710 20
BIC code: BOFAGB22

Soggetta ad attività di direzione e coordinamento di Magna Powertrain GmbH
Subject to the activity of the direction and coordination of Magna Powertrain GmbH

Zhejiang Dazhong
No.81 wansheng Road
325400 WANQUAN TOWN, WENZHOU CITY

PO number:
Date:

Page: 2/2
4500682933
2024/03/11

Item	Material Description	Order Quantity	Unit	Price per unit EUR	Value EUR
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Terms of Payment: within 60 days Due net

Terms of Delivery: DAP Magna PT SpA - Modugno (BA)

"No verbal supplementary agreements have been entered. This contract is concluded by the signature of both parties. Both parties agree that the Simple Electronic Signature (SES) is sufficient for the validity of this agreement. A qualified electronic signature (QES) within the meaning of the eIDAS regulation No. 910/2014 is not required. This also applies to contract changes and supplements as well as to the departure from this requirement. Any other form such as E-mail is not sufficient."

"Unless otherwise agreed upon in writing this Order is subject to the exclusive application of our General Terms and Conditions (Non Production Parts and Services, actual version) which are published at <https://qpf.magna.com/public/#/iframe/app%2Fdownloads%2Fpublic.php/Downloads%20?cb=10763466723579> Differing or contrary terms shall not apply except if expressly agreed upon in writing. This shall also apply for all future orders of the subject matter of this order and/or if we accept delivery of goods or provision of services despite our knowledge of differing or contrary terms of the supplier."

"Audit:

We will have the right at any reasonable time to send our authorized representatives to examine all pertinent documents and materials in the possession or under the control of the Supplier relating to any of the Supplier's duties and obligations under this order. The Supplier will retain all such documents for a period of two years after completion of a particular delivery."

Magna's New Supplier Code of Conduct and Ethics:

As of January 1, 2018, Magna has adopted a new Supplier Code of Conduct and Ethics (the "Code"), a copy of which can be found at the following link:

<https://www.magna.com/company/suppliers/supplier-code-of-conduct-and-ethics>. The Code reiterates standards that have previously been found in Magna's Code of Conduct and Ethics, the Global Supplier Requirements, and our Terms and Conditions and Contracts.

As you are aware, Magna sets high ethical expectations for its suppliers. We expect all of our suppliers to obey the letter and the spirit of the laws in the jurisdictions in which they do business, and to act with integrity at all times. The Code clearly articulates some of our key expectations.

The Code also reiterates the need for our suppliers to speak up if, in the course of working for Magna, they learn of a violation of the law or the Code either by the supplier itself or by a Magna employee.

I kindly ask that you review the Code and to ensure that you abide by its terms. If you have any questions or concerns, please do not hesitate to contact us.

Magna PT S.p.A.
a socio unico
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I-70026 Modugno (Bari)
Tel. 080 - 5 85 81 11
Fax 080 - 5 85 82 04

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Supplier:

Date:

Transporter:

Date:

Receiving Warehouse:

Date:



Retention Start Date:
Final storage location:



全尺寸报告 Full Dimension Report

产品类型 Product Type	新开发件New Product	编号No:	2024-3-1
产品状态 Product Status	成品Final Product	项目 Project	DCT ECO
供应商 Supplier	浙江大众标准件有限公司 Zhejiang Dazhong Standard Parts Co., Ltd	供应商代码 Supplier Code	200182
产品图号 Part No.	PD5C-7407-AA	产品名称 Part name	Thrust Washer
本批数量 Quantity	552	检验日期 Inspection Date	2024.3.30

报告内容Report Content:

- 尺寸检验Dimension Inspection 材质报告Material Report 性能实验Performance Test
 耐久实验Durability Test 外观报告AAR 其它Others

零件标识方法 Parts' Marking Description	材料Material	批准 Approved by:	谢延勇	编制 Written by:	张丽艳		
	16MnCr5	日期Date:	2024.3.30	日期Date:	2024.3.30		
总测项数 Total inspected items	13	合格项数 Ok Items	13	不合格项数 NG Items	0	不能测项数 Can't be measured items	0
抽查数量 Quantity checked	5件	抽查率 Ratio of Checking	100.00%	项次合格率 Qualified Ratio	100%	备注 Remark	

检验结果 Inspection result

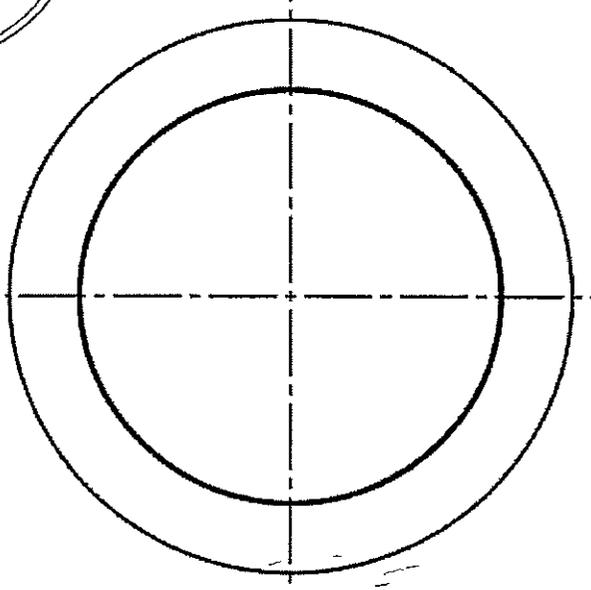
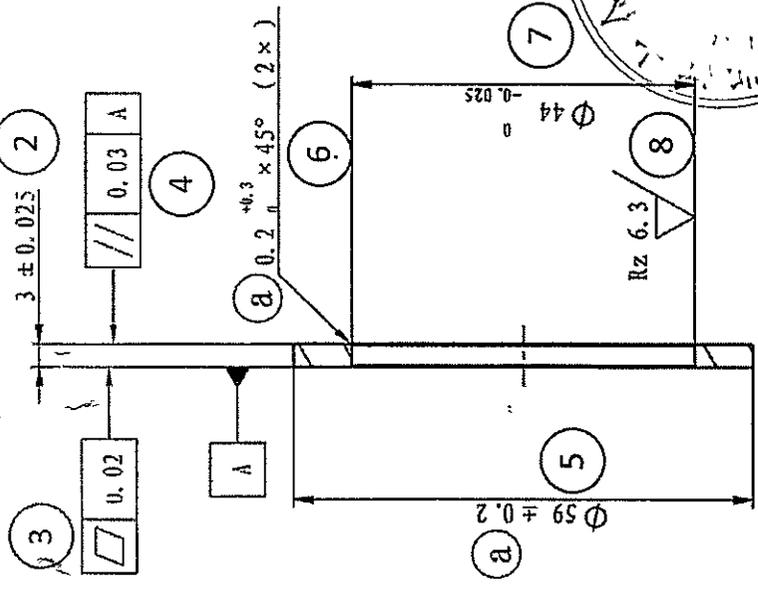
○ 不合格

检验员签字 Inspector Signature		质量工程师签字 QE Signature:	谢延勇
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Owner/Department: 刘旭照/CQEH5
Form Number: MPJ_F14_0005_20 Date Issued: 2008.11.18
Process Number: MPJ_I14_0015_20 Date Revised: 2021.01.14

Page页码: 1 / 1
Security Class: 专用
Retention: 28.13/15

Retention Start D
Final storage loc:



CASE HARDENED AND TEMPERED
 CASE HARDNESS 680+100 HV5 (9)
 CHD 550=0.2+0.4

MAGNETIC FIELD INTENSITY 5A/cm MAX. (11)

NO SHARP EDGE AND BURRS (10)

TECHNICAL CLEANLINESS:

ACC TO MPT-GL-03-S-4340
 TS-A

SURFACE TO PROVE: 30cm² (12)
 GRAVIMETRY: GA=5mg/1000cm²

MAXIMUM METALLIC PARTICAL SIZE:
 Feretmax=600 μm
 Feretmin=400 μm

MAXIMUM NON METALLIC PARTICAL SIZE:
 Feretmax=1000 μm

ISO 9717-Fe/Mnph/g/10/T4 (13)

设计/DESIGN	初梦琪	零件名称/PART NAME	霍尔探头 ThruS Karbar
校对/CHECK	肖玲珍	零件图号/PART NO.	PHC-3407-AA
材料/MATERIAL	陈玲珍	材料/MATERIAL	EN10084-16MnCr5
审核/AUDITING	方亮	版本/VERSION	V4
批准/APP	毛祖祺	比例/SCALE	1:1
日期/DATE	20230719	第几页/SHT	1
重量/WEIGHT	29.5	共几页/UF	1

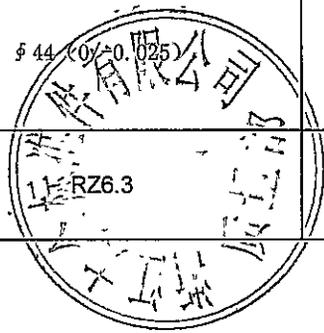
6.00.03-S
 0002-4
 Owner/Department: 湖南湘电传动有限公司
 Date Issued: 2008.11.18
 Date Revised: 2021.01.14

Retention Start Date:
Final storage location:



全尺寸报告 Full Dimension Report

No 序号	Characteristic 特性	Spec 规格	Class 特性分类	Gauge 量具名称	Measurement Result 测量结果					Result 结果 OK/NG
					1	2	3	4	5	
1	Raw Materials 原材料	16MnCr5		Spectrometer 光谱仪	见材料检测报告 See material testing report					OK
2	Thickness 厚度	3±0.025		Micrometer 千分尺	2.996	2.986	2.993	2.998	2.995	OK
3	Flatness 平面度	0.02Max		Feeler Gauges 塞尺	0.02	0.02	0.02	0.02	0.02	OK
4	Parallelism 平行度	0.03Max		Micrometer 千分尺	0.010	0.01	0.011	0.010	0.011	OK
5	Outside Diameter 外径	φ 59±0.2		Vernier Caliper 游标卡尺	58.97	58.99	59.01	59.03	59.01	OK
6	Chamfer Width 倒角宽度	2×0.2 (+0.3/0)		Profilometer 轮廓仪	0.391	0.341	0.338	0.337	0.344	OK
					0.395	0.368	0.374	0.369	0.361	OK
6	Chamfer Angle 倒角角度	2×45° ±3°		Profilometer 轮廓仪	47.820	47.521	45.641	46.241	45.752	OK
					46.672	47.098	47.013	45.695	46.447	OK
7	Inner Diameter 内径	φ 44 (0±0.025)		Internal micrometer with three-point contact 内径三爪千分尺	43.992	43.982	43.992	43.986	43.995	OK
8	Surface Roughness 粗糙度	RZ6.3		Roughness Meter 粗糙仪	0.497	0.542	0.649	0.499	0.649	OK



Owner/Department: 刘旭熙/CQEHS
Date Issued: 2008.11.18
Date Revised: 2021.01.14

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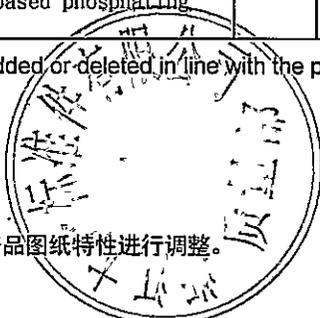
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9	Surface Hardness 表面硬度	680+100HV5	Vickerstester 维氏硬度计	698.9	725.3	706.3	722.8	706.1	OK
	Case Depth 硬化层深度	0.2+0.4=550CHD		0.55	0.51	0.52	0.54	0.52	OK
10	Appearance 外观	无毛刺、压痕、 锈蚀缺料等缺陷 No burrs, indentations Defects such as rust and shortage of materials	Visual inspection 目测	OK	OK	OK	OK	OK	OK
11	Magnetism 磁性	退磁处理: 磁场强度最大5A/cm Demagnetization treatment: Maximum magnetic field strength of 5A/cm	Gaussmeter 高斯计	0	0	0	0	0	OK
12	Cleanliness 清洁度	杂质重量5mg/1000cm ² 、最大金属颗粒: 400 μm×600 μm、非金属颗粒≤ 1000 μm Impurity weight 5mg/1000c m ² , maximum metal particle: 400 μm × 600 μm. Non metallic particles ≤ 1000 μm	Cleanliness detector+Electronic balance 清洁度检测仪 +电子天平	杂质重量: 3.45mg 最大金属颗粒: 212 μm×357 μm、 非金属颗粒582 μm					OK
13	Surface Treatment 表面处理	锰系磷化 Manganese based phosphating	Salt Spray Test Machine 盐雾试验机	见盐雾检测报告 See salt spray detection report					OK

Remark: the Inspection Item can be added or deleted in line with the product drawing characteristic from PE.



备注: 检查项目根据产品开发中心的产品图纸特性进行调整。

浙江大众标准件有限公司
Zhejiang Dazhong Standard Parts Co., Ltd.

Test report 试验报告

编号: DZ-QTL-1304

试验名称 Test Name	中性盐雾试验 Salt spray test		参考资料 Reference standards	IS09717
产品名称 product name	Thrust Washer		试验数量 Number of experiments	3PCS
产品图号 Product drawing number	PD5C-7407-AA		测试日期 date of observation	2024-3-29
试验条件				
A. 盐溶液 质量百分比浓度: (5±0.1)%; PH值: 6.5-7.2 Mass percentage concentration of salt solution: (5 ± 0.1)%; PH value: 6.5-7.2				
B. 实验室温度: 35±2℃ Laboratory temperature: 35 ± 2 °C				
C. 盐水桶温度: 35±2℃ Salt water barrel temperature: 35 ± 2 °C				
D. 压力桶温度: 47±1℃ Pressure bucket temperature 47 ± 1 °C				
E. 实验室相对湿度: 85% Laboratory relative humidity: 85%				
F. 压缩空气(压力): 1.00±0.01Kg/cm ² Compressed air pressure: 1.00 ± 0.01Kg/cm ²				
G. 样品放置角度: 15°-30° Sample placement angle: 15 ° -30 °				
H. 盐雾收集量: 1.0-2.0ml/(80cm ² /H) Salt mist collection volume: 1.0-2.0ml/(80cm ² /H)				
I. 试验时间: 8H Test time: 8 hours				
清洁处理: Cleaning treatment				
<p>试验结束后取出试样放在室内自然干燥0.5-1H, 然后用温度不高于38℃的清洁流动水清洗以除去试样表面残留的盐雾溶液, 再用清洁流动水轻轻清洗以除去试样表面残留的盐雾溶液, 再用吹风机吹干。 After the experiment, take out the sample and let it dry naturally indoors for 0.5-1H. Then, clean it with clean flowing water at a temperature not exceeding 38 °C to remove any residual salt spray solution on the surface of the sample. Gently clean it with clean flowing water to remove any residual salt spray solution on the surface of the sample, and then blow it dry with a hair dryer</p>				
判定方法: Judgment method:				
<p>试验后观察产品表面无红色腐蚀物之现象, 即判定合格。 After the experiment, if there is no red corrosion on the surface of the product, it is judged as qualified.</p>				
样品编号 specimen No.	试验后现象 Phenomenon After Test			判定 Comment
1	符合上述要求表面无腐蚀物、红锈。 Meet the above requirements and have no corrosive substances or red rust on the surface			OK
2	符合上述要求表面无腐蚀物、红锈。 Meet the above requirements and have no corrosive substances or red rust on the surface			OK
3	符合上述要求表面无腐蚀物、红锈。 Meet the above requirements and have no corrosive substances or red rust on the surface			OK
试验员 Tester	陈伟伟	审核 examine	班兴忠	日期 date 2024. 3. 29



宝山钢铁股份有限公司
BAOSHAN IRON & STEEL CO., LTD.

产品质量证明书
INSPECTION CERTIFICATE

制造厂: 总部
Manufacturer: CORE BASE

上海市宝山区... 邮编 201900
No.885 Fujin ROAD, BAOSHAN DISTRICT
201900 SHANGHAI, P. R. CHINA
TEL (021)26649104
FAX (021)26648886

订货单位 CUSTOMER	上海宝钢钢材贸易有限公司		产品名称 PRODUCT	热轧酸洗钢带	
收货单位 PURCHASER	浙江大众标准件有限公司		代号 CUSTOMER'S NO.	000425	
标准 SPECIFICATION	BXYX2012-043 16MnCr5		客户订单编号 CUSTOMER ORDER NO		
			签发日期 DATE OF ISSUE	2021/04/28	
			许可证号 LICENSE NO.		
			证书号 CERTIFICATE NO.	BGSAX2104280012400	
			合同号 CONTRACT NO.	XBR0003545	

序号 NO.	钢卷/捆包号 COIL/PACK NO.	件数 QTY	炉号 HEAT NO.	规格及重量 MATERIAL DESCRIPTION			化学成分 CHEMICAL COMPOSITION % (熔炼分析 HEAT ANALYSIS)										拉伸试验 TENSILE TEST (GL=L2)			硬度 HARDNESS	杯突 mm	BH 值 MPa
				厚度 THICK	宽度 WIDTH	长度 LENGTH	C	SI	Mn	P	S	Cr	NI	Alt	N	屈服 Y.S.	抗拉 T.S.	伸长 EL				
1	2113270502	1	21139820	3.50	1100	COIL	16170	16	8	107	10	2	89	1	4	46	365	531	28			
合计 Total				1			16170															

备注
REMARKS

Y.S.= YIELD STRENGTH T.S.= TENSILE STRENGTH EL= ELONGATION G.L.= GAUGE LENGTH L1=5.65SQRT(F0) L2=50MM L3=80MM L4=200MM L5=11.3SQRT(F0)
*01-ERICHSEN

会验者
SURVEYOR TO

本产品已按上述要求进行制造和检验, 其结果符合要求, 特此证明
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE MATERIAL SPECIFICATION.

质量负责人
QUALITY MANAGER

Jinguo Fu