

GENERAL SUMMARY:	
Client:	BRASILIAN ROLLING GROUP LTDA
PO No.:	PO-01B05-26-01-DM-R1
Item No.:	BRFN 7012/BRFN 7015.1
Product Name:	Locking Assembly
Quantity:	1194(4 pieces unfinished)
Inspection location:	No.11, Mechanical East Road, Mechanical Industrial Park, Danfeng County, Meishan City, Sichuan, China
Supplier:	Sichuan Reach Jiayuan Machinery Co.Ltd
Date of inspection:	May 7th, 2026



OVERALL CONCLUSION:				
Inspection criteria	Passed	Failed	Pending	Comments
Quantity available:	-	-	√	Remark 1
Product Conformity:	-	-	√	Remark 2,3
Workmanship:	√	-	-	Remark 6
Test and measurement:	√	-	-	
Labeling:	-	-	√	Remark 4
Packing and shipping mark:	-	-	√	Remark 4,5
Result:	[] Acceptable		[] Reject	[√] Pending

SPECIAL REMARK:
1.The two models RFN 7015.1 440×545 and RFN 7015.1 460×565 are each missing 2 pieces(not finished)
2.No ref.samples were provided by client and factory
3.The factory provided the quality certificates for the screws and seamless steel pipes, conducted hardness tests on some randomly sampled products, and the dimensional measurements of the sampled products were within the allowable tolerance range.
4.No shipping mark and marking spec. available for comparison on site.
5.No packing method spec. available for comparison on site.
6.On-site, samples of 13 cartons of model BRFN 7012 and 5 cartons of model BRFN 7015.1 were selected for inspection. The dimensions were within the acceptable tolerance range. Hardness tests were conducted on some products, and no defects were found in terms of physical appearance/sensory level

Note.

Client special attention check points:
1. Inspect the screw standard of model 7012 and model 7015.1, confirm whether the screws comply with ISO 4762 class 12.9 standard. Result:Pass(Remark:Relevant quality certificates are attached)
2. Check the single packaging of finished products, verify that each single product is packed with BRG packaging materials. Result:Pass
3. Compare the actual product packaging with the packaging requirements of the attached file, confirm that the packaging style, marking and appearance are completely consistent with the attached model file. Result:Pass
4. Count and check the extra spare packaging prepared by the supplier for Brazilian inventory reserve, confirm that the supplier provides additional packaging to cope with possible packaging damage during sea transportation from China to Brazil.

Result: Pending (Remark: The factory said they will provide extra packaging if available, otherwise not)

5. Inspect the marking information on each independent package, confirm that each package is clearly printed or labeled with the corresponding product model and size identification information.

Result: Pass

6. Evaluate the packaging grade of the goods, confirm that the products adopt special export-grade packaging design to ensure that both the finished products and outer packaging are intact without damage during transportation.

Result: Pending (Remark: Without a qualified packaging design sample for reference, it cannot be determined whether the special export-grade packaging design has been adopted)

7. Check the anti-oxidation protection measures of single product, confirm that each product is equipped with independent anti-oxidation protection structure to prevent oxidation damage during maritime transportation and subsequent long-term storage.

Result: Pending (Remark: The workshop production process includes anti-oxidation treatment procedures, but the sampled products on site have not undergone functional testing in this regard. Whether the products have received anti-oxidation treatment remains to be determined)

8. Verify the production progress notification process, confirm that the supplier actively informs the customer when all inspection materials and finished goods are ready for factory release inspection.

Result: Pending (Remark: The factory does not have any relevant workflow or procedure system available for reference)

9. Supervise the packaging operation sequence of goods, confirm that all finished products shall not be packed into export cartons before the customer completes the factory product release inspection.

Result: Pass (Remark: The product has not been sealed in the box.)

10. Check the complete set of product manufacturing certificates, confirm that the supplier provides formal certification documents covering product material certification and dimension parameter certification.

Result: Pending (Remark: Only partial certificates have been provided)

11. Verify the certificate submission form, confirm that the supplier sends the electronic version of manufacturing certificates to the designated customer email in advance, and prepares the paper version certificates for the customer's professional inspector to check in the final release inspection.

Result: Pending (Remark: here is no on-site proof that the relevant certificates were sent to the customer's email address. The site only provided the inspector with partial quality certificates.)

AVAILABLE QUANTITY:

Item No.	Order Qty		Packed		Not finished		Not packed		Inspect Qty	
	pcs	ctn	pcs	ctn	pcs	ctn	pcs	ctn	pcs	ctn
BRFN 7012	1064	-	1064	-	0	0	0	0	7	7
BRFN 7015.1	134	-	130	-	4	4	0	0	5	5
Total:	1198	-	1194	-	4	4	0	0	13	13

Lot Size	General Inspection Levels			Special Inspection Levels			
	I	II	III	S1	S2	S3	S4
2 to 8	A	A	B	A	A	A	A
9 to 15	A	B	C	A	A	A	A
16 to 25	B	C	D	A	A	B	B
26 to 50	C	D	E	A	B	B	C
51 to 90	C	E	F	B	B	C	C
91 to 150	D	F	G	B	B	C	D
151 to 280	E	G	H	B	C	D	E
281 to 500	F	H	J	B	C	D	E
501 to 1,200	G	J	K	C	C	E	F
1,201 to 3,200	H	K	L	C	D	E	G
3,201 to 10,000	J	L	M	C	D	F	G
10,001 to 35,000	K	M	N	C	D	F	H
35,001 to 150,000	L	N	P	D	E	G	J
150,001 to 500,000	M	P	Q	D	E	G	J
500,001 and over	N	Q	R	D	E	H	K

Single sampling plans for normal inspection

Sample Size Code Letter	Sample Size	Acceptable Quality Levels (Normal Inspection)																					
		0.065		0.10		0.15		0.25		0.40		0.65		1.0		1.5		2.5		4.0		6.5	
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re
A	2																				0	1	
B	3																				0	1	
C	5																				0	1	
D	8																				0	1	
E	13																				0	1	
F	20																				0	1	
G	32																				0	1	
H	50																				0	1	
J	80																				0	1	
K	125																				0	1	
L	200																				0	1	
M	315																				0	1	
N	500																				0	1	
P	800																				0	1	
Q	1250																				0	1	
R	2000																				0	1	

Inspection standard: ANSI/ASQC Z1.4-2003 Sampling plan: <i>Single, Normal</i> Inspection level: <i>Fixed</i> AQL: Critical: Not Allowed.	Sample Size: 13pcs			
	Critical	Major	Minor	
	AQL:	0	2.5	4.0
	Defects Found:	0	0	0
	Max. Allowed:	0	1	1

WORKMANSHIP:						
Item No.	Sample size	Defective rate	Defects Description	Cri	Maj	Min
BRFN 7012 95x135	1	0	No defects	0	0	0
BRFN 7012 100x145	1	0	No defects	0	0	0
BRFN 7015.1	1	0	No defects	0	0	0

110X155						
BRFN 7015.1 100X145	1	0	No defects	0	0	0
BRFN 7012 70x110	1	0	No defects	0	0	0
BRFN 7012 60x90	1	0	No defects	0	0	0
BRFN 7015.1 130X180	1	0	No defects	0	0	0
BRFN 7012 420x515	1	0	No defects	0	0	0
BRFN 7012 80x120	1	0	No defects	0	0	0
BRFN 7012 28x55	1	0	No defects	0	0	0
BRFN 7012 38x65	1	0	No defects	0	0	0
BRFN 7015.1 160X210	1	0	No defects	0	0	0
BRFN 7015.1 460X565	1	0	No defects	0	0	0
Total defect:				0	0	0
Allowed:				0	5	7
Result:				Pass		

Defect Pictures:
NONE

PRODUCT CONFORMITY & ON-SITE TESTS			
Check Points & On-site Tests	Sample Size	Criteria	Result & Remarks
Visual Check (Style, Appearance, Material, Color)	All Sample size	a. Conformance to Style / Appearance / Material / Color compared against: <input type="checkbox"/> Client's / <input type="checkbox"/> Factory's ref. sample. <input checked="" type="checkbox"/> No ref. sample for comparison. (N.B.: Provide details in comment section if 2 or more color shades and/or any color variation is found.) b. Free of nick, burrs, pits, sharp point or any other defects which may affect the product serviceability. c. Finish/ coating is smooth and even without streaks, blisters, wrinkles, or runs. d. Good overall appearance with good alignment of components.	Pending Remark 2
Hardness test	All Sample size	Refer to factory quality inspection standards	PASS
Certificate inspection	All Sample size	Check the raw material certificate provided by the factory and the screw certificate	PASS

PACKING AND ACCESSORIES:								
Item No.:	Master shipper (pcs/ctn)	Carton size L×W×H (cm)	G.W (Kg)	N.W (Kg)	Color box size L×W×H (cm)	Color box weight(g)	Carton Barcode	Color box Barcode
BRFN 7012 95x135	-	-	-	-	14.5*14.5*4.5	60	-	-
BRFN 7012 100x145	-	-	-	-	15*15*5	70	-	-

BRFN 7015.1 110X155	-	-	-	-	17*17*10	110	-	-
BRFN 7015.1 100X145	-	-	-	-	16*16*9	110	-	-
BRFN 7012 70x110	-	-	-	-	12*12*4.5	50	-	-
BRFN 7012 60x90	-	-	-	-	10*10*4	30	-	-
BRFN 7015.1 130X180	-	-	-	-	20*20*10	160	-	-
BRFN 7012 420x515	-	-	-	-	-	-	-	-
BRFN 7012 80x120	-	-	-	-	13*13*5	50	-	-
BRFN 7012 28x55	-	-	-	-	6*6*3	10	-	-
BRFN 7012 38x65	-	-	-	-	7*7*3	20	-	-
BRFN 7015.1 160X210	-	-	-	-	21*21*10	170	-	-
BRFN 7015.1 460X565	-	-	-	-	-	-	-	-

PRODUCT SPECIFICATION:

Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7012 95x135	Product size(mm)OD, ID		
	134.9*95.1	-	-
	Thickness(mm)		
	30.3	-	-
	Product weight (kg)		
	1.6	-	-
BRFN 7012 100x145	Product size(mm)OD, ID		
	144.7*100.1	-	-
	Thickness(mm)		
	34.4	-	-
	Product weight (kg)		
	2.12	-	-
BRFN 7015.1 110X155	Product size(mm)OD, ID		
	154.7*110.1	-	-
	Thickness(mm)		
	66	-	-
	Product weight (kg)		
	4.17	-	-
BRFN 7015.1 100X145	Product size(mm)OD, ID		
	144.8*100.1	-	-
	Thickness(mm)		
	67.2	-	-
	Product weight (kg)		
	3.79	-	-
BRFN 7012	Product size(mm)OD, ID		

70x110	109.8*70.2	-	-
	Thickness(mm)		
	30.1	-	-
	Product weight (kg)		
	1.25	-	-
Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7012 60x90	Product size(mm)OD, ID		
	89.8*60.1	-	-
	Thickness(mm)		
	24,7	-	-
	Product weight (kg)		
0.64	-	-	
Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7015.1 130X180	Product size(mm)OD, ID		
	180*130.2	-	-
	Thickness(mm)		
	75.7	-	-
	Product weight (kg)		
6.11	-	-	
Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7012 420x515	Product size(mm)OD, ID		
	515*420	-	-
	Thickness(mm)		
	—	-	-
	Product weight (kg)		
49	-	-	
Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7012 80x120	Product size(mm)OD, ID		
	119.7*80.1	-	-
	Thickness(mm)		
	—	-	-
	Product weight (kg)		
1.37	-	-	
Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7012 28x55	Product size(mm)OD, ID		
	54.8*28.1	-	-
	Thickness(mm)		
	20.8	-	-
	Product weight (kg)		
0.26	-	-	
Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7012 38x65	Product size(mm)OD, ID		
	64.7*38.1	-	-
	Thickness(mm)		
	20.5	-	-
	Product weight (kg)		
0.33	-	-	

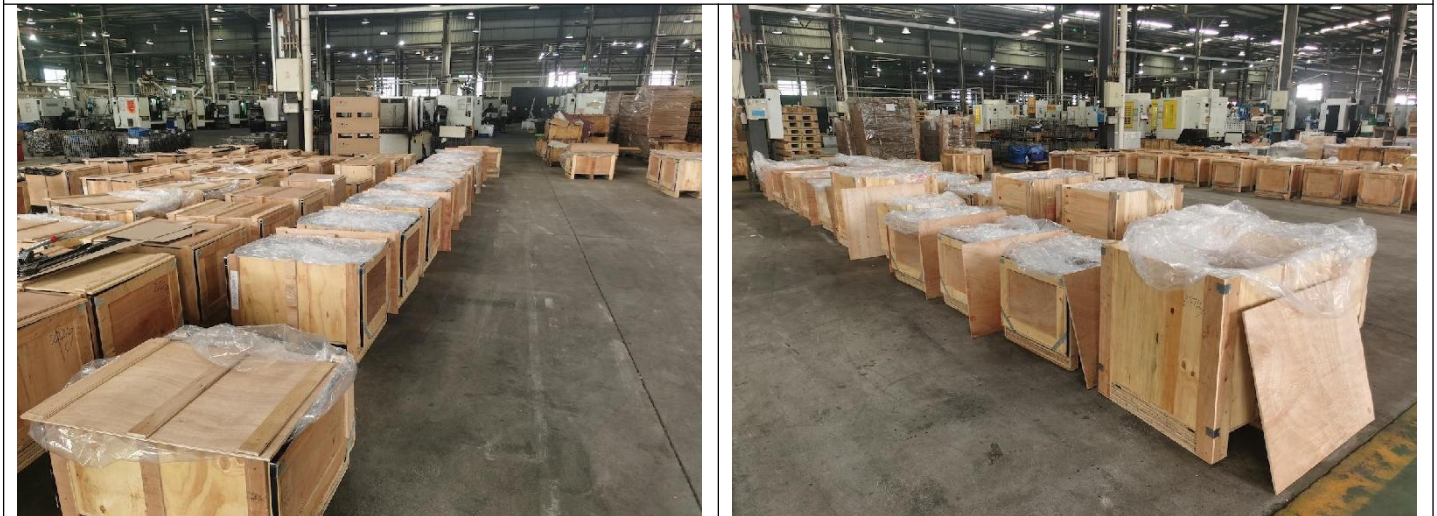
Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7015.1 160X210	Product size(mm)OD, ID		
	210*160	-	-
	Thickness(mm)		
	75	-	-
	Product weight (kg)		
	7.3	-	-
Item No	Sample 1#	Sample 2#	Sample 3 #
BRFN 7015.1 460X565	Product size(mm)OD, ID		
	565*460	-	-
	Thickness(mm)		
	200	-	-
	Product weight (kg)		
	105	-	-

EXPORT CARTON INFORMATION:

Carton:	New export carton	Yes	Sealing:	Opaque gummed tape	-
Fastening:		-		Transparent gummed tape	-
Strapping:		-		Paper tape	-
Material:	<u>Ply of corrugated paper</u>	Yes	Others:	-	

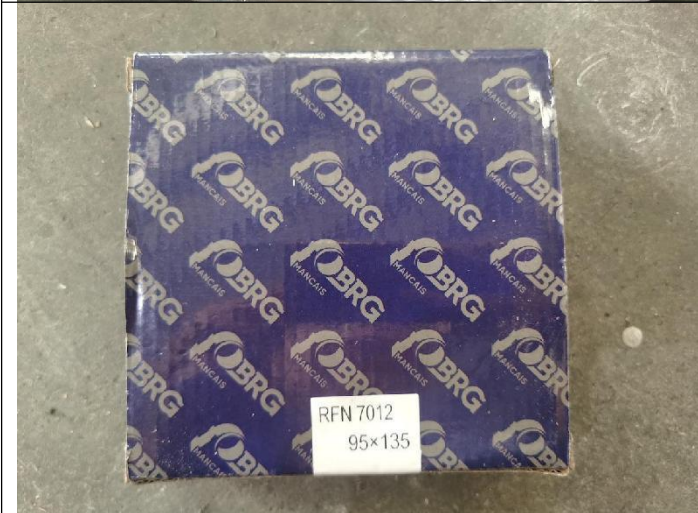
Product and Measurement photo show:

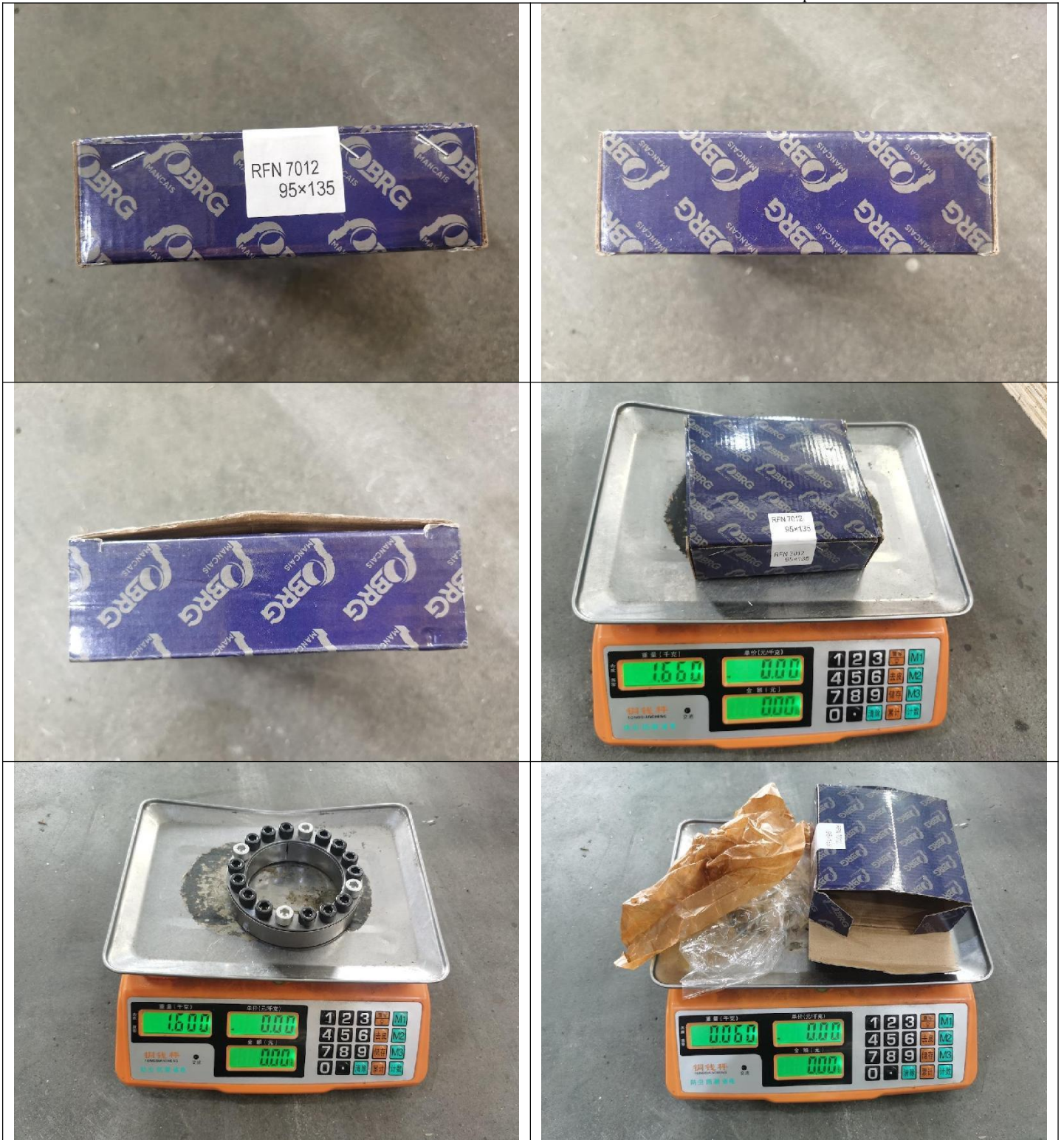
Finished goods

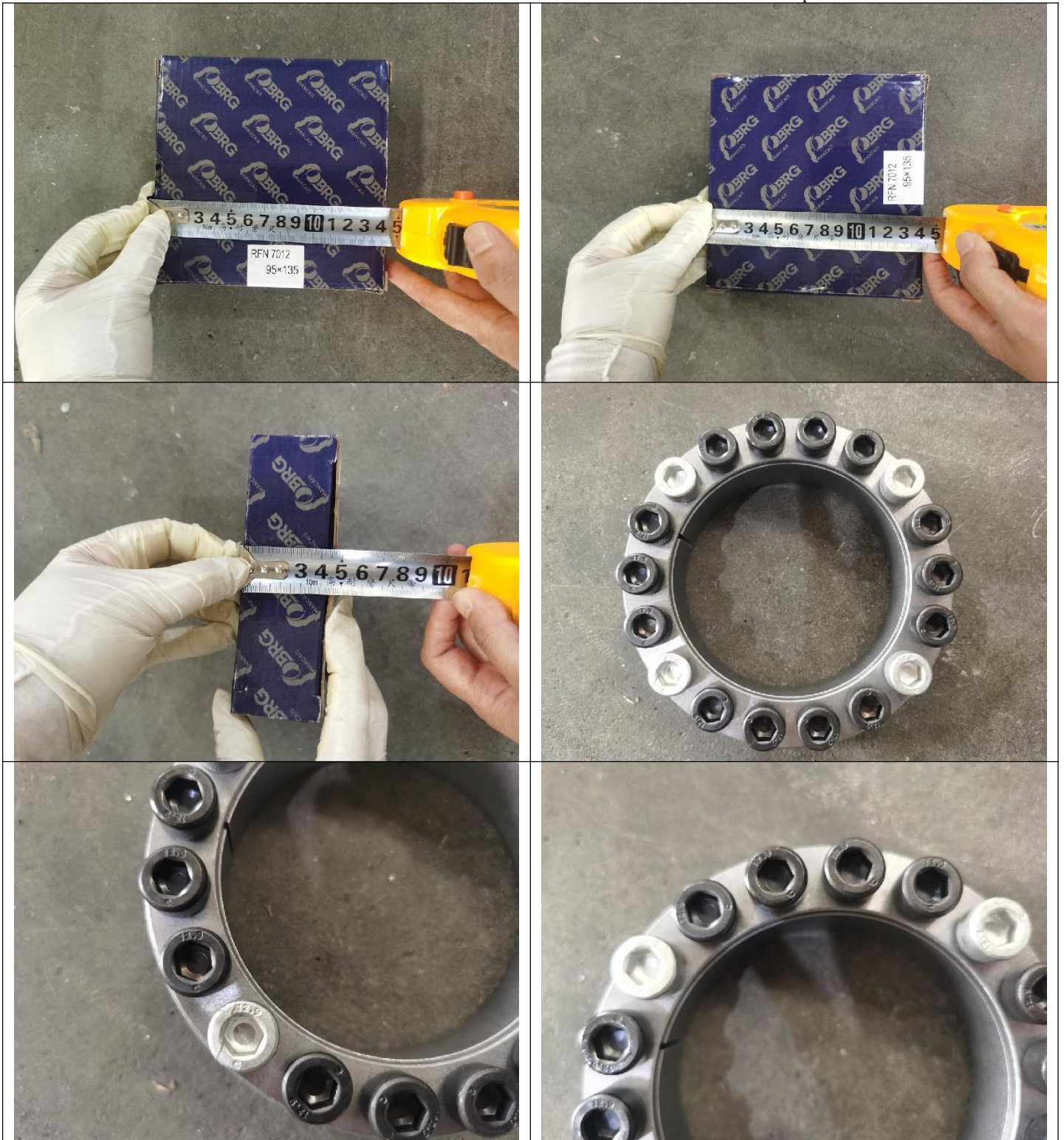




Product: BRFN 7012 95x135











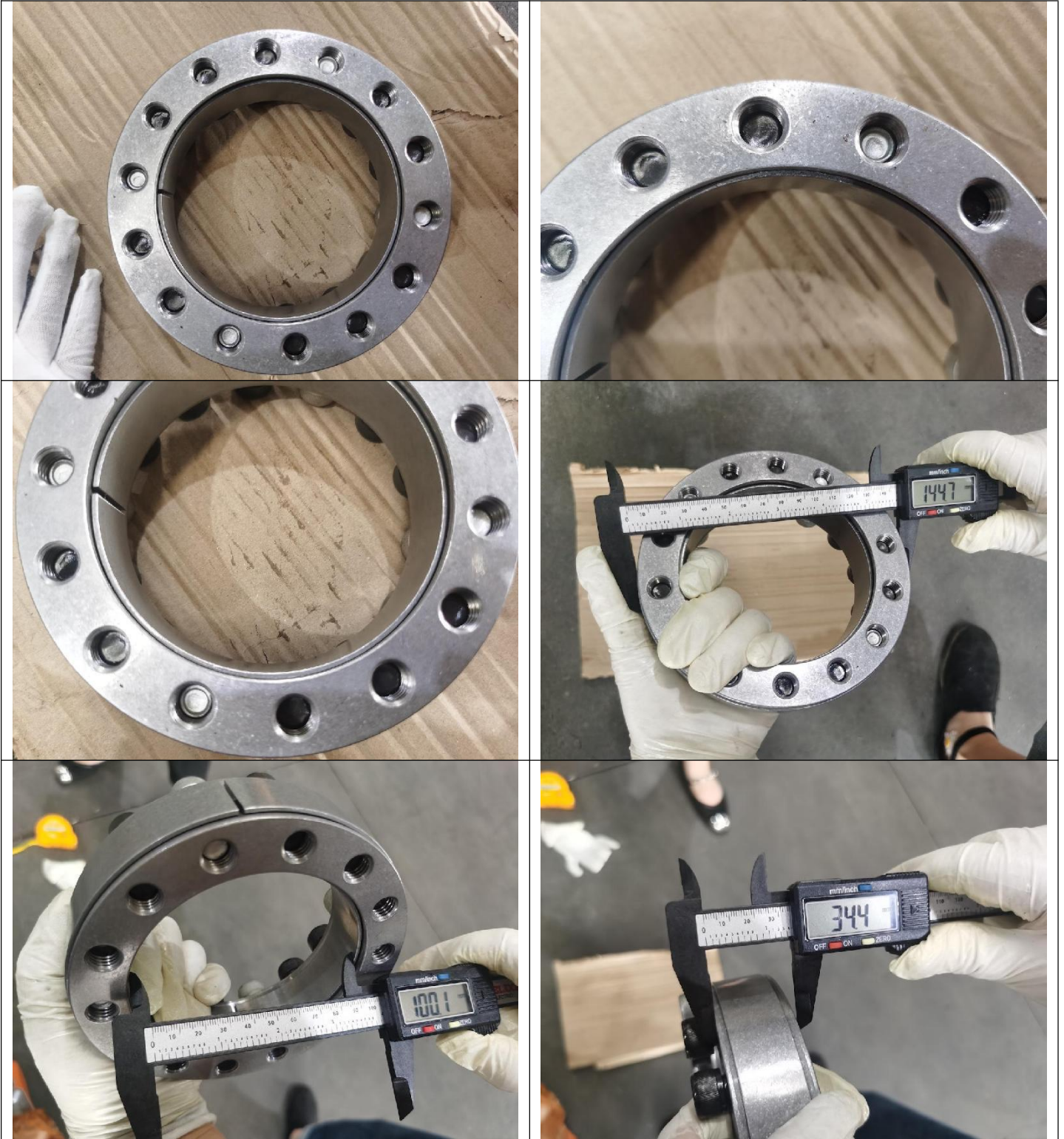
Product:BRFN 7012 100x145



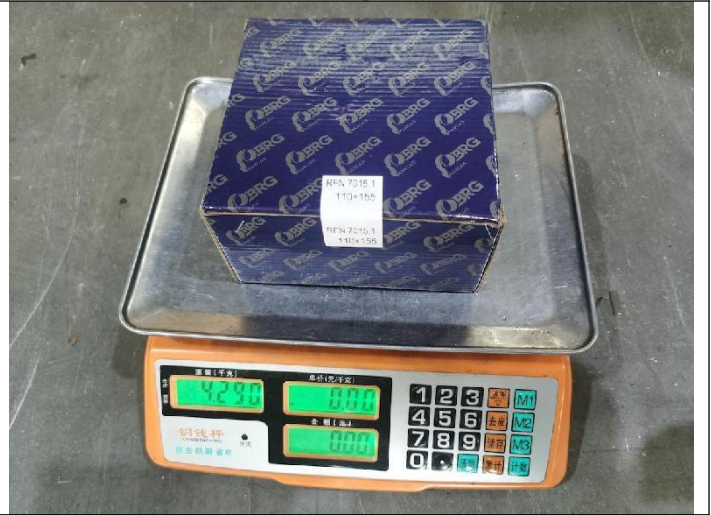




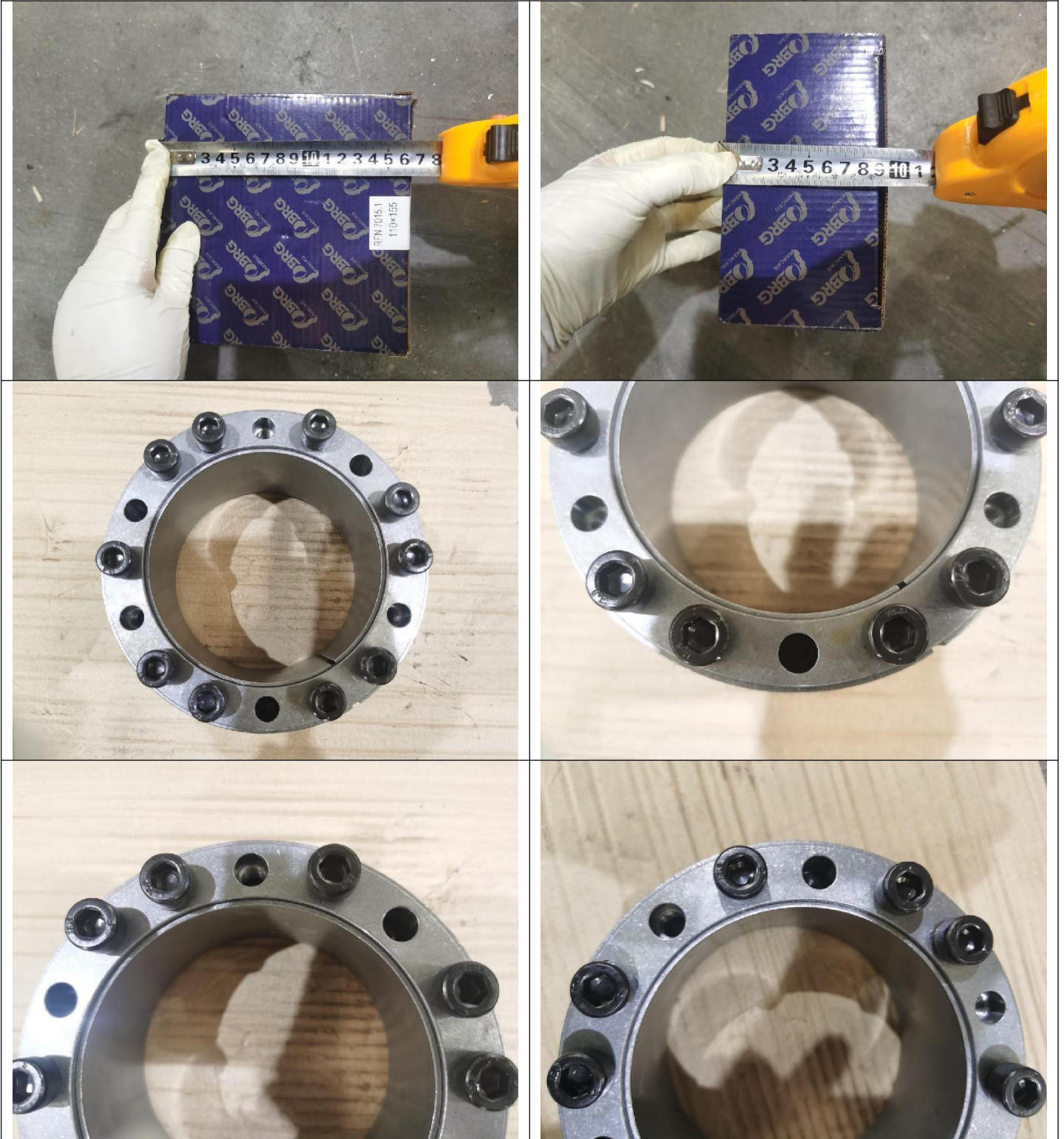


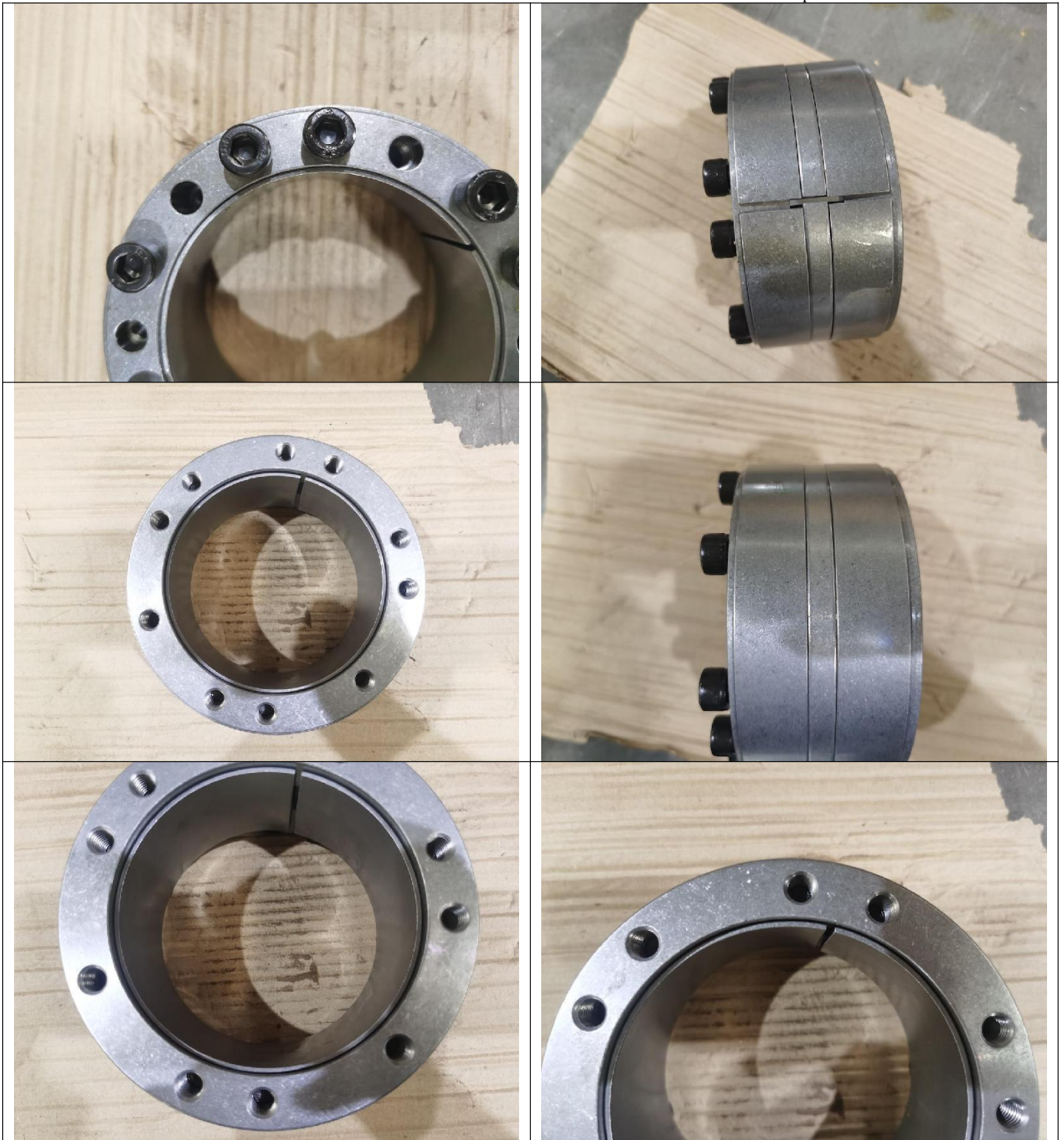


Product:BRFN 7015.1 110X155





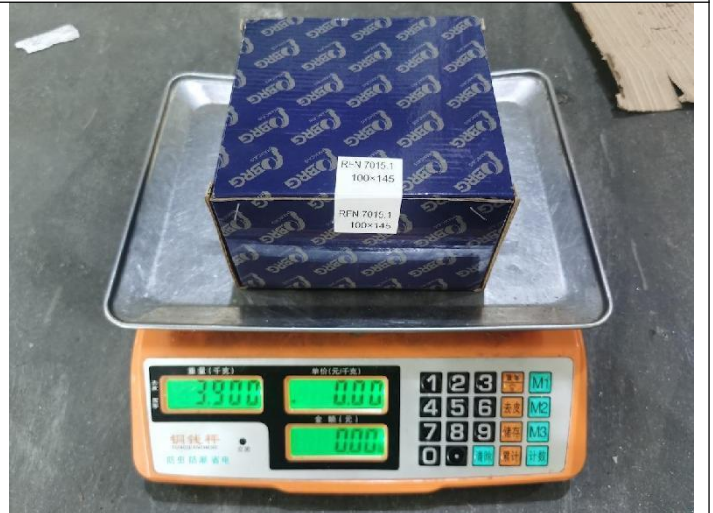


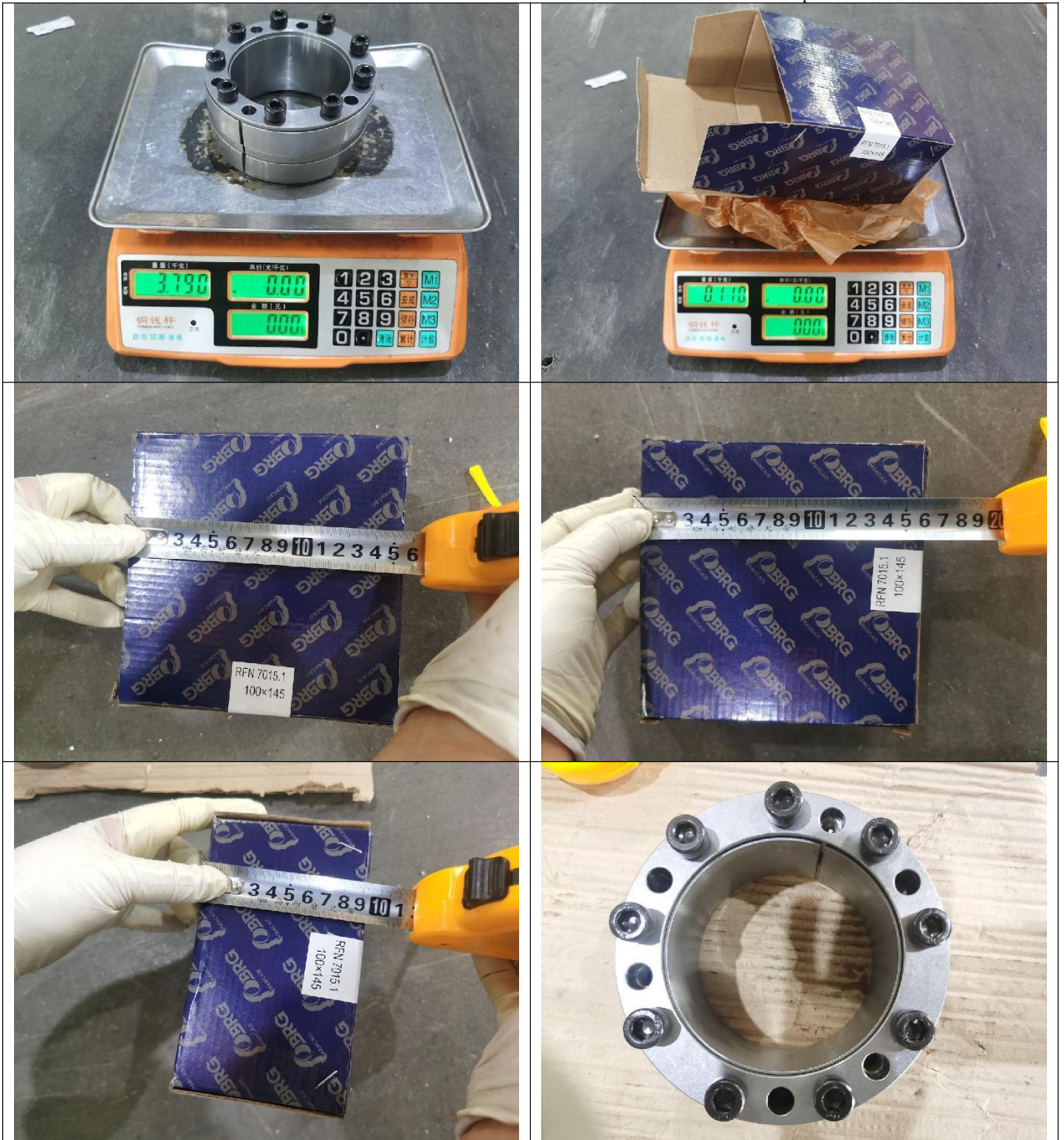


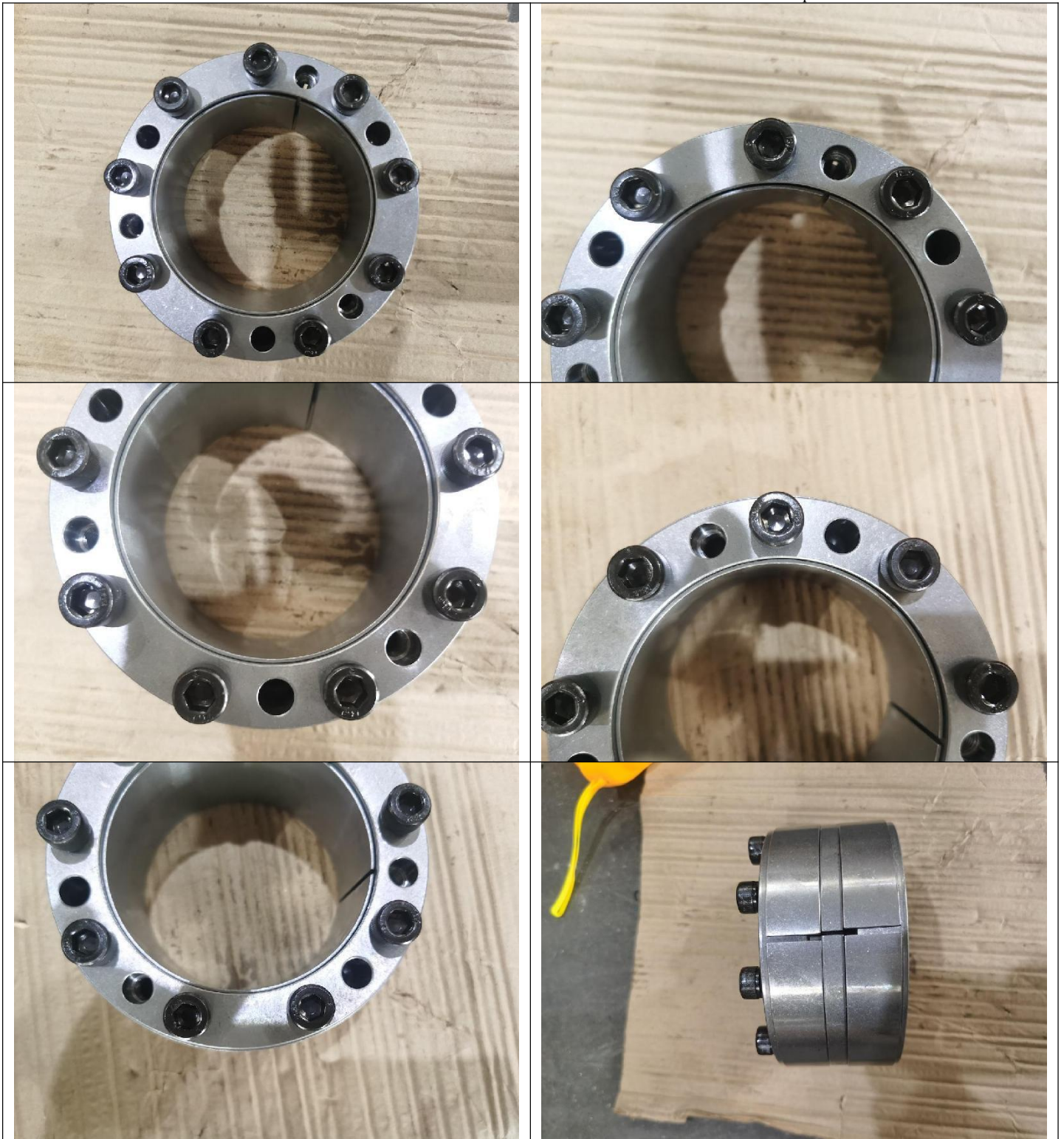


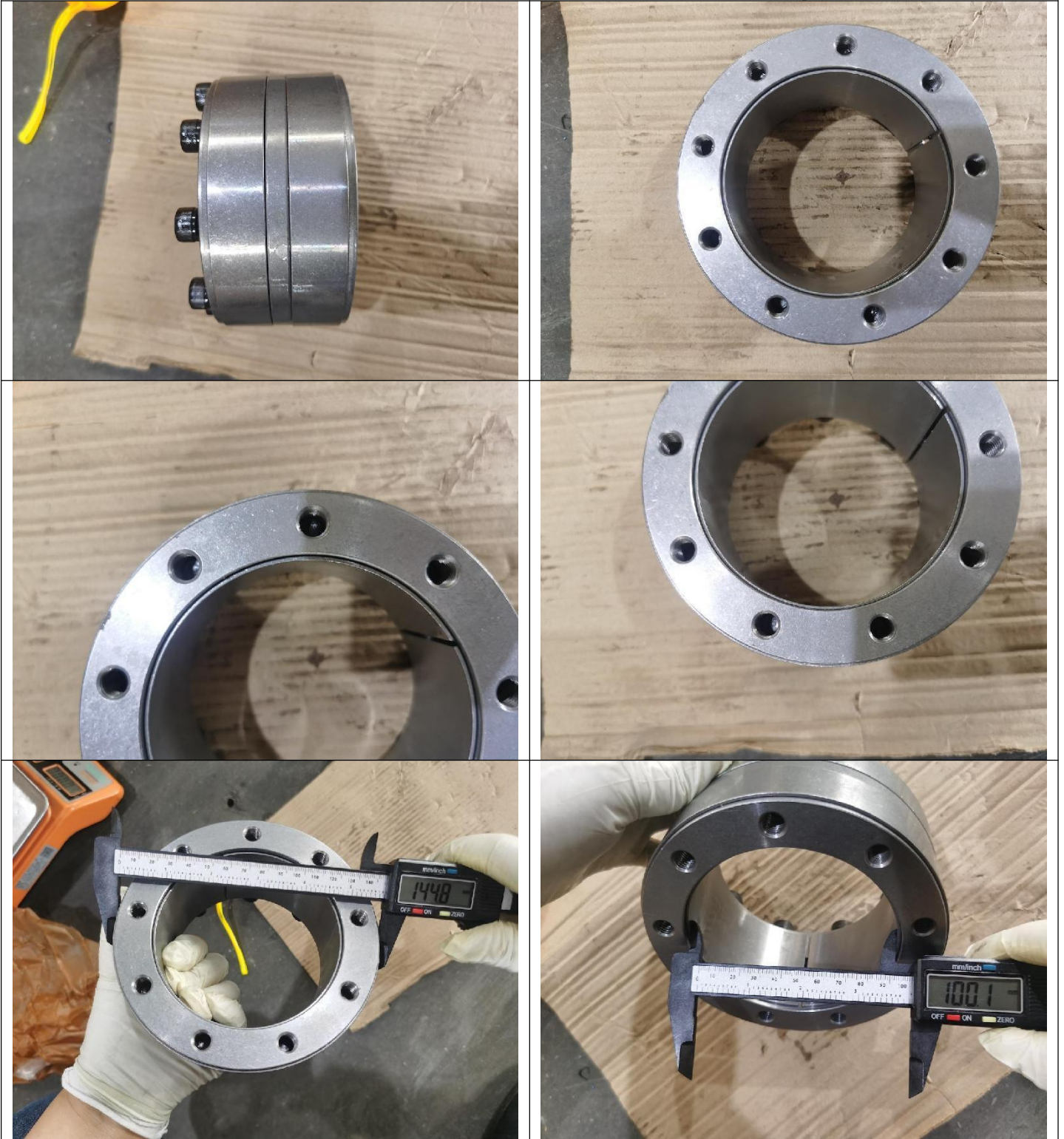
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Product:BRFN 7015.1 100X145







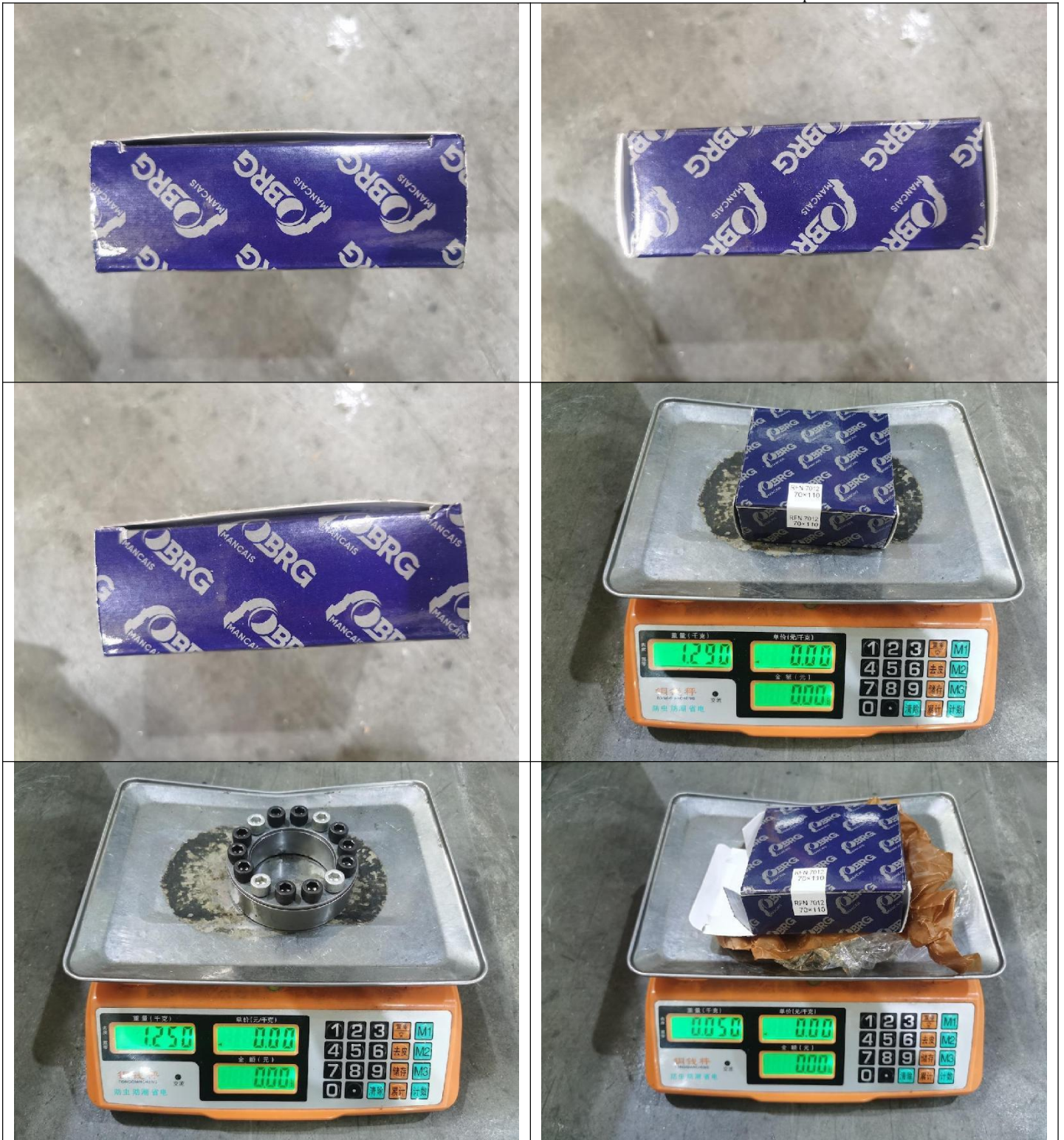




N/A

Product:BRFN 7012 70x110











Product:BRFN 7012 60x90



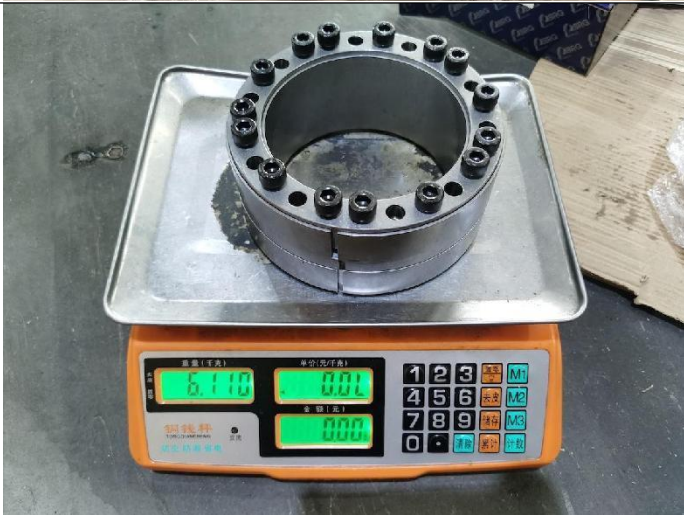








Product:BRFN 7015.1 130X180



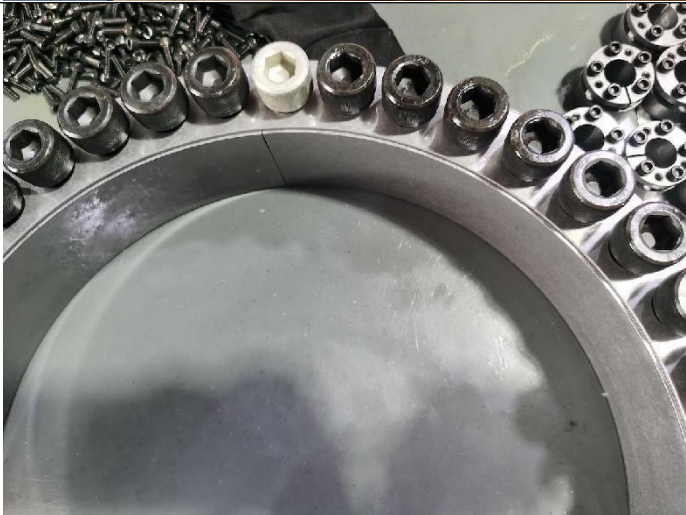




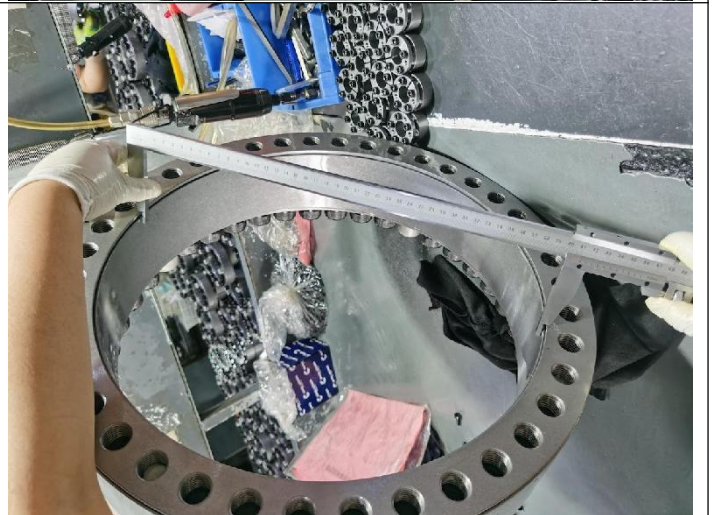


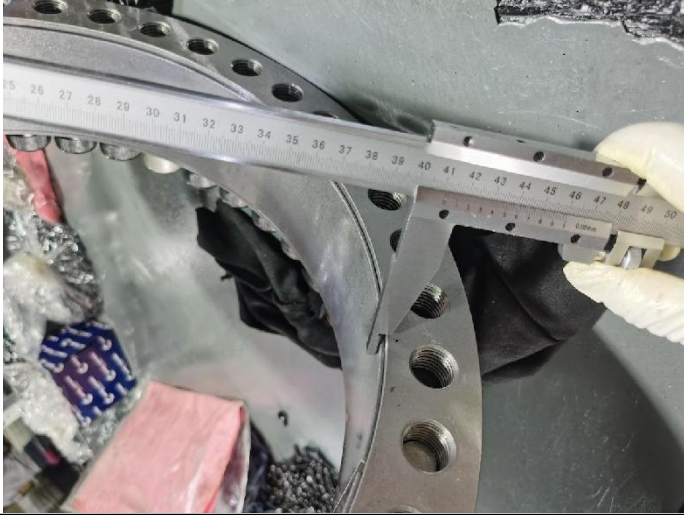


Product:BRFN 7012 420x515









N/A

Product:BRFN 7012 80x120







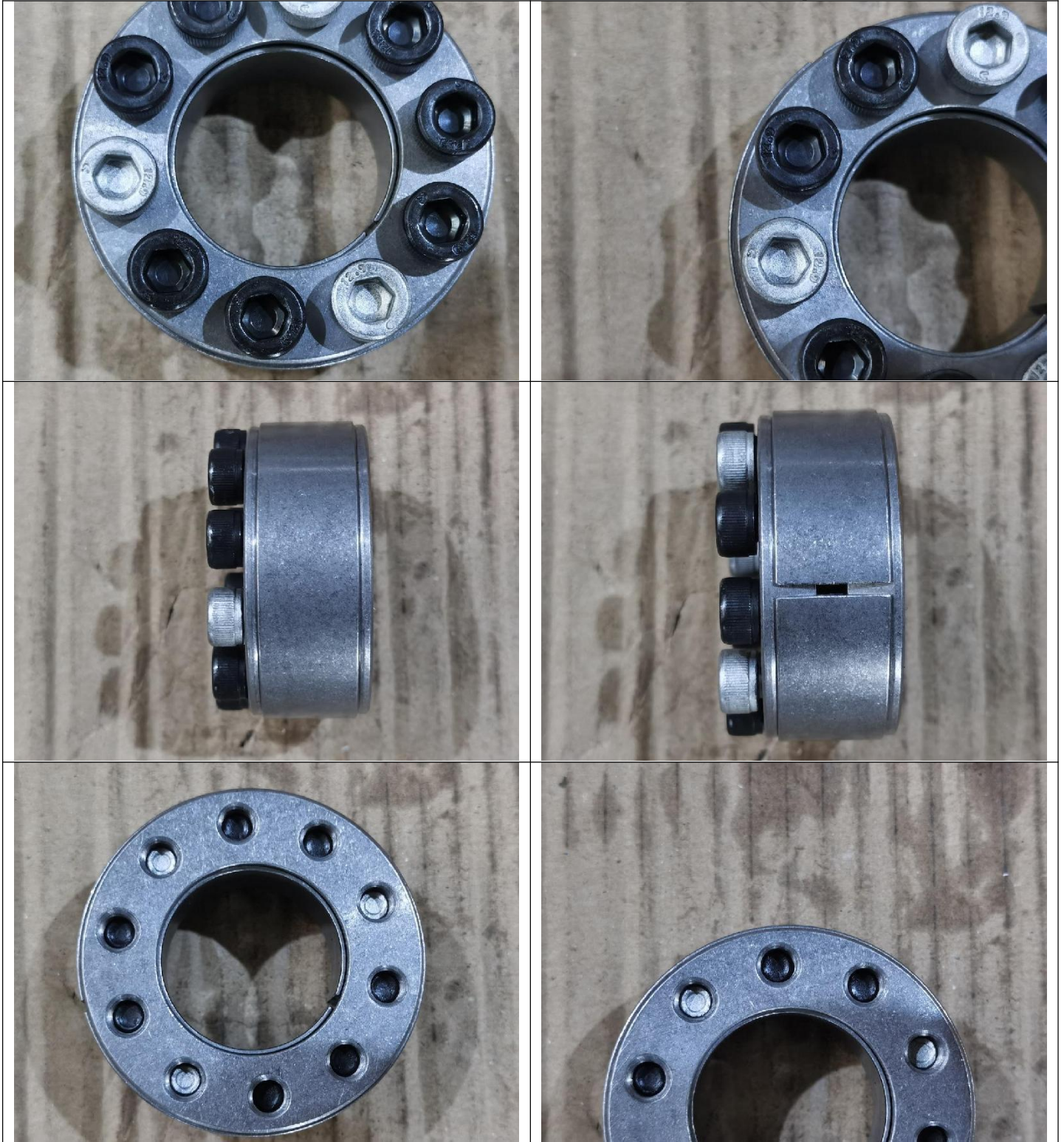














N/A

Product:BRFN 7012 38x65











Product: BRFN 7015.1 160X210









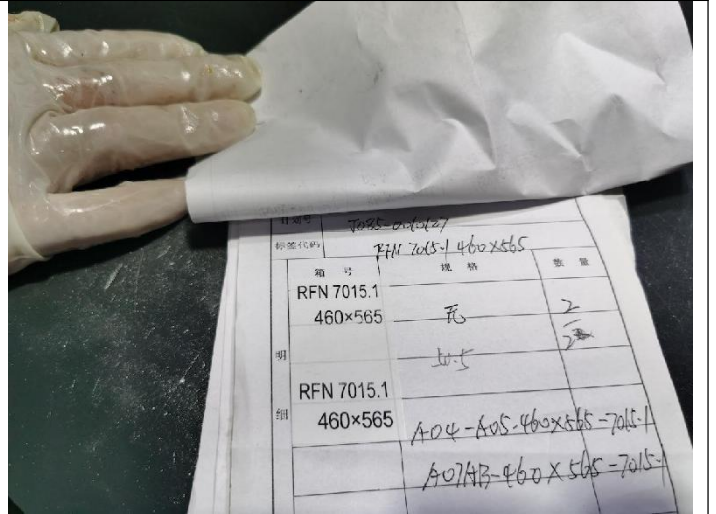
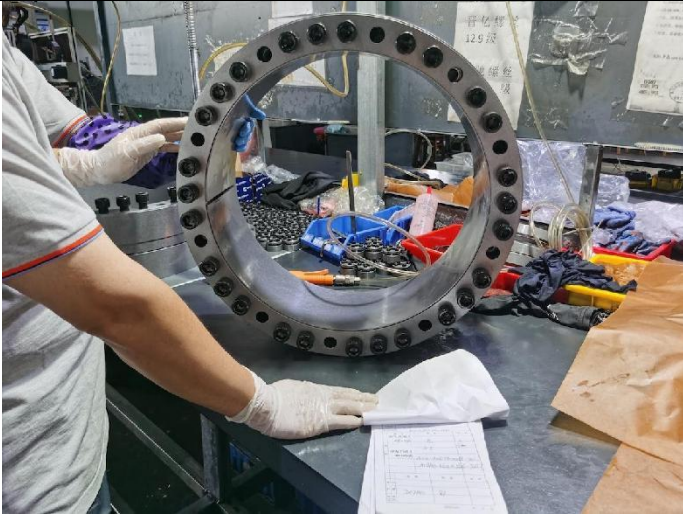
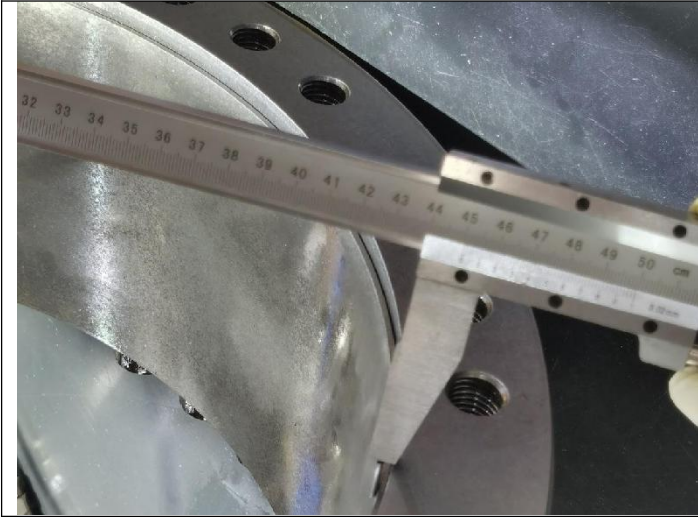


N/A

Product: BRFN 7015.1 460X565

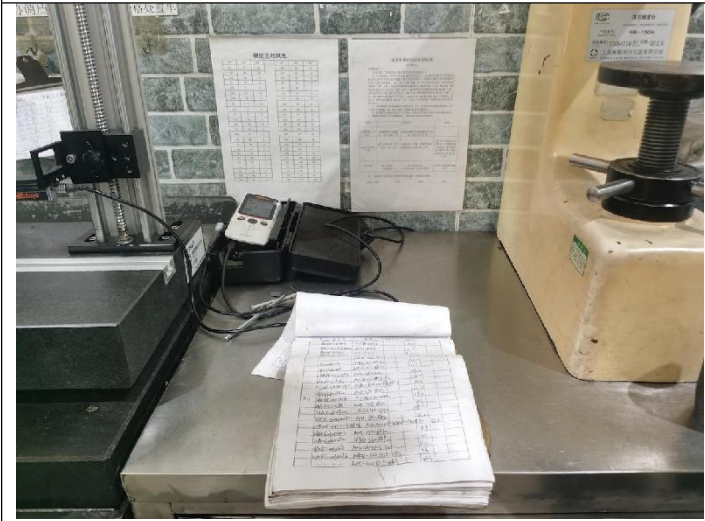
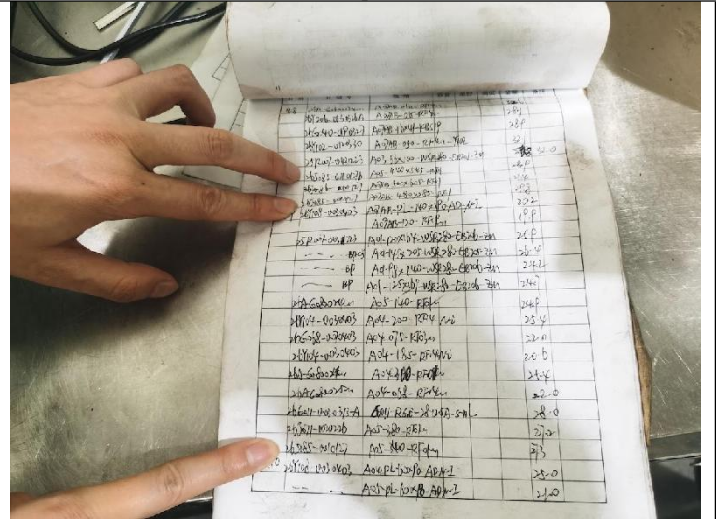
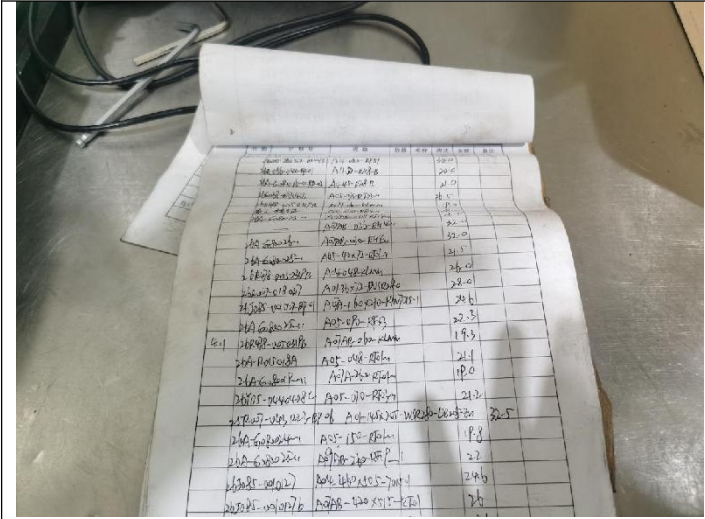






Test photo show: Hardness Test





Seamless Steel Pipe Quality Certificate

山东丰瑞管业有限公司
产品质量证明书

WILL TEST CERTIFICATE

质证书编号: 20201F03
Certificate No. FR183-0302

标准 Specification	GB/T8162-2018	产品名称 Product name	无缝钢管 Seamless Steel Pipe	合同号 Contract No.		证书编号 Certificate number	FR183-0302
规格 Spec	炉号 Lot No. 批号 Batch No. <th>规格 Dimension</th> <td>外径 (mm) Outer Diameter 壁厚 (mm) Thickness</td> <th>数量 Quantity</th> <td colspan="3">化学成份 (%) C Si Mn P S Cr Ni Cu Nb Ti 其它元素 Mechanical properties 屈服强度 Yield Strength 抗拉强度 Tensile Strength 伸长率 Elongation</td>	规格 Dimension	外径 (mm) Outer Diameter 壁厚 (mm) Thickness	数量 Quantity	化学成份 (%) C Si Mn P S Cr Ni Cu Nb Ti 其它元素 Mechanical properties 屈服强度 Yield Strength 抗拉强度 Tensile Strength 伸长率 Elongation		
1	45# 6300155	20201F03	500 95	5	0.26 0.07 0.46 0.027 0.023 0.012 0.08 0.06 0.02		607 388 16

1. 本产品符合相关标准, 满足合同要求。
This product meets relevant standards and complies with contract requirements.
2. 收货时, 请核对规格、批号、炉号、交货日期、数量, 并妥善保管。
In case of any dispute, please indicate the steel grade, batch number, specification, shipping date, reason, and keep the physical object well-preserved in your.
3. 此证书随货同行, 不能单独作为有效文件。
This copy of the certificate is invalid, not stamped with the special seal for quality is invalid.
4. 如有质量问题请在15天内提出, 逾期不予受理。
Quality issues should be raised within 15 days, otherwise they will not be handled.

制单 Documents: 李华 检验员 Inspector: 李源 复核员 Reviewer: 李源 制单日期 Date: 2020-03-14

地址: 山东省临沂市平邑县马厂镇
Address: Pingfang Ma Village, Shaping District, Lishan City, Shandong Province

ZHEJIANG PACIFIC SEAMLESS STEEL TUBE CO.,LTD MILL'S CERTIFICATE
浙江泰富无缝钢管有限公司质量合格证明书

批号/Batch No.	02050225	用户/Customer	建设 (集团) 有限公司	炉号/Heat No.	2501438	材料/Shape	无缝管/Seamless steel tube	加工用途/Dedicated Further	承压加工/Pressure processing
技术标准/Technical Spec. No.	GB/T 8162-2018	合同号/Contract No.	820603069	交货状态/Delivery Condition	热轧/Hot rolled	规格/Size	500*900		
产品名称/Description of Goods	碳素结构钢/Carbon structural steel	牌号/Steel Grade	45	交货状态/Delivery Condition	热轧/Hot rolled	规格/Size	500*900		

特殊要求/Special Requirements: 7-13.26

1. 化学成分/Chemical Composition

元素/Element	C	Si	Mn	P	S	Cr	Ni	Cu
最大值/Max	0.26	0.37	0.55	0.035	0.035	0.25	0.25	0.25
最小值/Min	0.22	0.22	0.40	0.030	0.030	0.08	0.02	0.02

2. 力学性能/Mechanical Properties

项目/Item	屈服强度/ Yield Strength (MPa)	抗拉强度/ Tensile Strength (MPa)	伸长率/ Elongation (%)
纵向/Longitudinal	≥355	≥510	≥21.0
横向/Transverse	≥355	≥510	≥21.0

III. 尺寸、外形和表面质量/Dimension, Appearance and Surface Quality
尺寸、外形和表面质量/Dimension appearance and surface quality 合格/ satisfactory

备注/Remarks: 3025-10-03 19:34 支数/Piece(s) 2 重量/Weight(kg) 14975 检验员/Inspector 李源 质检员/Quality Inspection Manager 李源

地址: 中国浙江省绍兴市上虞区小越街道工业路 邮编: 312367 电话: (0575)82711908 传真: (0575)82711860
MAIL ADDRESS: XIANGYU SHANGYU SHANGHAI ZHEJIANG CHINA, TEL: 0575-82711908 FAX: 82711860

This reflects our findings at the time and place in inspection. This inspection has been carried out to the best of our knowledge and ability and our responsibility is limited to the exercise of reasonable one. This report does not relieve the sellers from their contractual obligations nor prejudice buyer's right for compensation for any apparent and / or hidden defects not detected during our random inspection or occurring thereafter. This report does not evidence shipment.

ZHEJIANG PACIFIC SEAMLESS STEEL TUBE CO.,LTD MILL'S CERTIFICATE
浙江泰富无缝钢管有限公司质量合格证明书

卡片号: 1425267600 用户: 湖州同德材料科技有限公司
 技术标准: GB/T8162-2018 合同号: 0299F88323 炉号: 250306482 材质: 无缝钢管 加工用途: 切割加工用钢
 产品名称: 碳素结构钢 钢号: 45 交货状态: 热轧 规格: 500*50mm

特别要求:
 一、化学成分
 C Si Mn P S Cr Ni Cu
 Min 0.42 0.17 0.50 0.035 0.025 0.25 0.30 0.20
 Max 0.50 0.37 0.60 0.035 0.035 0.25 0.30 0.20
 备注: Min: 最小值; Max: 最大值; LoF: 炉内元素; Pre: 炉前元素

二、力学性能
 1. 屈服强度 试验温度: 室温 试验方向: 纵向
 屈服强度 Re(MPa) 389 389 屈服强度 Re(MPa) 389 389 断后伸长率 A(%) 22.0 21.0

三、尺寸、外形和表面质量
 尺寸、外形和表面质量 合格

签发日期: 2025-10-24 张数: 2 重量 (kg): 23747 判定员: 冯超 质检部长: 冯超 页码: Page 1 of 1

备注: 本产品符合用户订单和上述标准的要求进行生产、检验、测试及包装, 并符合合同。2. 有特殊要求, 未明确标注炉号、钢号、炉号、规格、重量、交货状态、用途, 并符合物理要求。3. 未标注炉号, 本产品由加工厂家自行负责其质量责任。

生产地址: 中国浙江省绍兴市上虞区小越镇工业园区 质检部 邮编: 312367 电话: (0575)82711908 传真: (0575)82711860
 MAIL ADDRESS: SHANGRU SHANGRU ZHEJIANG CHINA, TEL: 0575-82711908, FAX: 82711860

大冶特殊钢有限公司钢材产品合格证明书
 本公司通过英国TVS公司ISO9001, 2018(IATF16949), 2018(KAS)I000质量管理体系认证

卡片号: 1425267600 用户: 湖州同德材料科技有限公司
 技术标准: GB/T8162-2018 合同号: 0299F88323 炉号: 250306482 材质: 无缝钢管 加工用途: 切割加工用钢
 产品名称: 碳素结构钢 钢号: 45 交货状态: 热轧 规格: 500*50mm

特别要求:
 一、化学成分
 C Si Mn P S Cr Ni Cu
 Min 0.42 0.17 0.50 0.035 0.025 0.25 0.30 0.20
 Max 0.50 0.37 0.60 0.035 0.035 0.25 0.30 0.20
 备注: Min: 最小值; Max: 最大值; LoF: 炉内元素; Pre: 炉前元素

二、力学性能
 1. 屈服强度 试验温度: 室温 试验方向: 纵向
 屈服强度 Re(MPa) 389 389 屈服强度 Re(MPa) 389 389 断后伸长率 A(%) 22.0 21.0

三、尺寸、外形和表面质量
 尺寸、外形和表面质量 合格

签发日期: 2025-10-24 张数: 2 重量 (kg): 23747 判定员: 冯超 质检部长: 冯超 页码: Page 1 of 1

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生产地址: 中国湖北省武汉市黄陂区滠口街 质检部 邮编: 430301 电话: (027)83972722 传真: (027)83972721 邮箱: dym@dysteel.com
 MANUFACTURE ADDRESS: No. 316 HONGKOU STREET, HANGKOU, HUBEI 430301, CHINA. CONTACT INFORMATION: QUALITY INSPECTION INSTITUTE, TEL: 86-714-83972722, E-mail: dyq@dysteel.com

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卡片号: 1425267600 用户: 湖州同德材料科技有限公司
 技术标准: GB/T8162-2018 合同号: 0299F88323 炉号: 250306482 材质: 无缝钢管 加工用途: 切割加工用钢
 产品名称: 碳素结构钢 钢号: 45 交货状态: 热轧 规格: 500*50mm

特别要求:
 一、化学成分
 C Si Mn P S Cr Ni Cu
 Min 0.42 0.17 0.50 0.035 0.025 0.25 0.30 0.20
 Max 0.50 0.37 0.60 0.035 0.035 0.25 0.30 0.20
 备注: Min: 最小值; Max: 最大值; LoF: 炉内元素; Pre: 炉前元素

二、力学性能
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 尺寸、外形和表面质量 合格

签发日期: 2025-10-24 张数: 2 重量 (kg): 23747 判定员: 冯超 质检部长: 冯超 页码: Page 1 of 1

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 技术标准: GB/T8162-2018 合同号: 0299F88323 炉号: 250306482 材质: 无缝钢管 加工用途: 切割加工用钢
 产品名称: 碳素结构钢 钢号: 45 交货状态: 热轧 规格: 480*40mm

特别要求:
 一、化学成分
 C Si Mn P S Cr Ni Cu
 Min 0.42 0.17 0.50 0.035 0.025 0.25 0.30 0.20
 Max 0.50 0.37 0.60 0.035 0.035 0.25 0.30 0.20
 备注: Min: 最小值; Max: 最大值; LoF: 炉内元素; Pre: 炉前元素

二、力学性能
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 尺寸、外形和表面质量 合格

签发日期: 2025-10-24 张数: 2 重量 (kg): 23747 判定员: 冯超 质检部长: 冯超 页码: Page 1 of 1

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山东丰瑞管业有限公司
产品质量证明书

质证书编号: 250920
 Certificate No.: 250920

买方名称: 湖州同德材料科技有限公司
 产品名称: 碳素结构钢
 规格: 500*50mm

合同号: 0299F88323
 炉号: 250306482
 交货状态: 热轧

化学成分 (%)
 C Si Mn P S Cr Ni Cu
 Min 0.42 0.17 0.50 0.035 0.025 0.25 0.30 0.20
 Max 0.50 0.37 0.60 0.035 0.035 0.25 0.30 0.20

力学性能
 屈服强度 Re(MPa) 389 389
 断后伸长率 A(%) 22.0 21.0

签发日期: 2025-10-24 张数: 2 重量 (kg): 23747 判定员: 冯超 质检部长: 冯超 页码: Page 1 of 1

备注: 本产品符合用户订单和上述标准的要求进行生产、检验、测试及包装, 并符合合同。2. 有特殊要求, 未明确标注炉号、钢号、炉号、规格、重量、交货状态、用途, 并符合物理要求。3. 未标注炉号, 本产品由加工厂家自行负责其质量责任。

生产地址: 中国山东省临沂市兰山区义安镇 质检部 邮编: 276000 电话: (0539)83972722 传真: (0539)83972721 邮箱: dym@dysteel.com
 Address: Fengsheng Road No. 11, Lincang, Shandong District, Lincang City, Shandong Province

山东丰瑞管业有限公司
产品质量证明书

质证书编号: 250920
 Certificate No.: 250920

买方名称: 湖州同德材料科技有限公司
 产品名称: 碳素结构钢
 规格: 500*50mm

合同号: 0299F88323
 炉号: 250306482
 交货状态: 热轧

化学成分 (%)
 C Si Mn P S Cr Ni Cu
 Min 0.42 0.17 0.50 0.035 0.025 0.25 0.30 0.20
 Max 0.50 0.37 0.60 0.035 0.035 0.25 0.30 0.20

力学性能
 屈服强度 Re(MPa) 389 389
 断后伸长率 A(%) 22.0 21.0

签发日期: 2025-10-24 张数: 2 重量 (kg): 23747 判定员: 冯超 质检部长: 冯超 页码: Page 1 of 1

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普亿实业股份有限公司
GEM-YEAR INDUSTRIAL CO., LTD.
产品合格证
Certificate Of Quality

地址 ADDRESS: 浙江省嘉兴市嘉善经济开发区普亿大道8号
NO. 8 GEM-YEAR ROAD, E. D. Z., JIASHAN, ZHEJIANG, P. R. CHINA
电话 Tel: 0573 84185000 (48Line)
传真 Fax: 0573 84184488 84184567
客户名称 PURCHASER: 报告编号: 202502100013
报告日期: 2025/02/10

制造厂 MANUFACTORY: 普亿实业股份有限公司
品名 COMMODITY: GB/T 70.1 内六角螺钉 全牙
规格 SIZE: M0-1.50X15
批号 LOT NO: 1B24C03M2
数量 SHIP QUANTITY: 117,426 PCS

抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019
等级 PROPERTY CLASS: CL 12.9
炉号 HEAT NO: 24112702
材质 MATERIAL: SCM435
表面处理 FINISH: 热处理 发黑

化学成分分析 Percentage Composition Of Chemistry

化学成分 Composition Of Chemi	C%	Cr%	Cu%	Mn%	Mo%	Ni%	P%	S%	Si%
	0.3400	0.9300	0.0300	0.6700	0.1700	0.0200	0.0130	0.0030	0.2000

尺寸检测 Dimensional Inspections: DIN912

检测项目 Inspection Items	抽样数 Sample	检测方法 Test Method	参考值 Ref	标准值 Specified	实测值 Actual Result
头部高度 HEIGHT OF THE HEAD	5	JB/T 9151		9.64-10	9.85-9.9
螺纹基本大径 BASIC MAJOR DIAMETER OF THREAD	15	JB/T 9151		9.74-9.96	9.85-9.9
外观 SURFACE DISCONTINUITIES	29	ISO6157.3		-	OK
螺纹精度 5g6g THREAD	5	JB/T 9151		5g6g G0 5g6g N0G0	OK
驱动部分的深度 DEPTH OF THE INTERNAL DRIVING FEATURE	15	JB/T 9151		Min. 5	5.03-5.09
公称长度 NOMINAL LENGTH	15	JB/T 9151		44.5-45.5	45-45.2
内六角对边宽度 SOCKET WIDTH ACROSS FLATS	5	JB/T 9151		8.03-8.17	8.03-8.09
头部直径 DIAMETER OF THE HEAD	15	JB/T 9151		15.73-16.27	16-16.08

机械性质检测 Mechanical Properties: ISO 898.1-2013

检测项目 Inspection Items	抽样数 Sample	检测方法 Test Method	参考值 Ref	标准值 Specified	实测值 Actual Result
表面硬度 SURFACE HARDNESS	15	ASTM E384		Max. 43HRV	40-412HV
抗拉强度 WEDGE TENSILE	5	ISO898.1		Min. 1220N/ØM2	1285-1305N/ØM2
芯部硬度 CORE HARDNESS	15	ISO898.1		39-44HRC	41.2-42HRC

- 备注:
1. 所标称之尺寸单位为mm,另有指定除外。
THE UNIT OF SIZE IN THE LECTURE IS MM, EXCEPT OTHERWISE SPECIFIED.
2. 以上样品的检测符合紧固件的标准或上面列出的标准。
THE TESTING METHODS OF SAMPLE ABOVE ARE IN KEEPING WITH THE STANDARD OF FASTENER OR THE STANDARD TABULATED ABOVE.
3. 其中材料化学成分由供方提供。
CHEMICAL COMPOSITION OF THE MATERIAL SUPPLIED BY SUPPLIER STEEL MILLS.
4. 无印章此报告无效。
THE LECTURE INVALID WITHOUT A SEAL.

品质主管 SIGNATURE:



普亿实业股份有限公司
GEM-YEAR INDUSTRIAL CO., LTD.
产品合格证
Certificate Of Quality

地址 ADDRESS: 浙江省嘉兴市嘉善经济开发区普亿大道8号
NO. 8 GEM-YEAR ROAD, E. D. Z., JIASHAN, ZHEJIANG, P. R. CHINA
电话 Tel: (0573) 84185001 (48Line)
传真 Fax: (0573) 84184488 84184567
客户名称 PURCHASER: 报告编号: 202503270017
报告日期: 2025/03/27

制造厂 MANUFACTORY: 普亿实业股份有限公司
品名 COMMODITY: GB/T 70.1 内六角螺钉 半牙
规格 SIZE: M0-1.50X6.5
批号 LOT NO: 1B24C21351
数量 SHIP QUANTITY: 69,440 PCS

抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019
等级 PROPERTY CLASS: CL 12.9
炉号 HEAT NO: 24112702
材质 MATERIAL: SCM435
表面处理 FINISH: 热处理 发黑

化学成分分析 Percentage Composition Of Chemistry

化学成分 Composition Of Chemi	C%	Cr%	Cu%	Mn%	Mo%	Ni%	P%	S%	Si%
	0.3600	0.9500	0.0300	0.8900	0.1600	0.0300	0.0140	0.0050	0.2100

尺寸检测 Dimensional Inspections: DIN912

检测项目 Inspection Items	抽样数 Sample	检测方法 Test Method	参考值 Ref	标准值 Specified	实测值 Actual Result
无螺纹部分直径 DIAMETER OF THE UNTHREADED SHANK	5	JB/T 9151		9.78-10	9.85-9.9
螺纹长度 THREAD LENGTH	15	JB/T 9151		32	32.8-33
头部高度 HEIGHT OF THE HEAD	5	JB/T 9151		9.64-10	9.85-9.9
螺纹基本大径 BASIC MAJOR DIAMETER OF THREAD	15	JB/T 9151		9.74-9.96	9.85-9.9
公称长度 NOMINAL LENGTH	15	JB/T 9151		64.4-65.6	65-65.2
外观 SURFACE DISCONTINUITIES	29	ISO6157.3		-	OK
螺纹精度 5g6g THREAD	5	JB/T 9151		5g6g G0 5g6g N0G0	OK
驱动部分的深度 DEPTH OF THE INTERNAL DRIVING FEATURE	15	JB/T 9151		Min. 5	5.03-5.09
内六角对边宽度 SOCKET WIDTH ACROSS FLATS	5	JB/T 9151		8.03-8.17	8.06-8.11
头部直径 DIAMETER OF THE HEAD	15	JB/T 9151		15.73-16.27	16.03-16.09

机械性质检测 Mechanical Properties: ISO 898.1-2013

检测项目 Inspection Items	抽样数 Sample	检测方法 Test Method	参考值 Ref	标准值 Specified	实测值 Actual Result
芯部硬度 CORE HARDNESS	15	ISO898.1		39-44HRC	41-42HRC
抗拉强度 WEDGE TENSILE	5	ISO898.1		Min. 1220N/ØM2	1302-1313N/ØM2
表面硬度 SURFACE HARDNESS	15	ISO898.1		Max. 43HRV	406-415HV

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4. 无印章此报告无效。
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制造厂MANUFACTORY: 普亿实业股份有限公司	抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019
品名COMMODITY: GB/T 70.1 内六角螺钉 半牙	等级PROPERTY CLASS: CL 12.9
规格 SIZE: M0-1.25X70	炉号 HEAT NO.: 24112702
批号 LOT NO: 1B23C1351	材质 MATERIAL: SCM435
数量SHIP QUANTITY: 69,440 PCS	表面处理 FINISH: 热处理 发黑

品质主管 SIGNATURE:



普亿实业股份有限公司
GEM-YEAR INDUSTRIAL CO., LTD.
产品合格证
Certificate Of Quality

地址ADDRESS: 浙江省嘉兴市嘉善经济开发区普亿大道8号 NO. 8 GEM-YEAR ROAD, E. D. Z., JIASHAN, ZHEJIANG, P. R. CHINA	电话 Tel: (0573) 84185001 (8Lines) 传真 Fax: (0573) 84184488 84184567 报告编号: 1B2391207 报告日期: 2025/03/18
制造厂MANUFACTORY: 普亿实业股份有限公司	抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019
品名COMMODITY: GB/T 70.1 内六角螺钉 半牙	等级PROPERTY CLASS: CL 12.9
规格 SIZE: M0-1.25X70	炉号 HEAT NO.: 23306323
批号 LOT NO: 1B2391207	材质 MATERIAL: SCM435
数量SHIP QUANTITY: 108,800 PCS	表面处理 FINISH: 热处理 发黑

化学成分分析/Percentage Composition Of Chemistry

化学成分	C%	Cr%	Cu%	Mn%	Mo%	Ni%	P%	S%	Si%
Composition Of Chemi	0.3400	0.9200	0.0400	0.6600	0.1600	0.0200	0.0120	0.0020	0.2300

尺寸检测 Dimensional Inspections: DIN912

检测项目	抽样数	检测方法	参考值	标准值	实测值
Inspection Items	Sample	Test Method	Ref	Specified	Actual Result
公称长度 NOMINAL LENGTH	15	JY/T 9151		69.4-70.6	70.23-70.28
螺纹长度 THREAD LENGTH	15	JY/T 9151	28		30.25-30.28
驱动部分的深度 DEPTH OF THE INTERNAL DRIVING FEATURE	15	JY/T 9151		Min. 4	4.23-4.28
无螺纹部分直径 DIAMETER OF THE UNTHREADED SHANK	5	JY/T 9151		7.78-8	7.85-7.89
内六角对边宽度 SOCKET WIDTH ACROSS FLATS	5	JY/T 9151		6.02-6.14	6.05-6.12
头部高度 HEIGHT OF THE HEAD	5	JY/T 9151		7.64-8	7.85-7.89
外观 SURFACE DISCONTINUITIES	29	ISO6157.3		-	OK
螺纹精度 5e6g	5	JY/T 9151		5e6g	OK
头部直径 DIAMETER OF THE HEAD	15	JY/T 9151		12.73-13.27	12.83-12.89
螺纹基本大径 BASIC MAJOR DIAMETER OF THE HEAD	5	JY/T 9151		7.76-7.97	7.85-7.89

机械性能检测 Mechanical Properties: ISO 898.1-2013

检测项目	抽样数	检测方法	参考值	标准值	实测值
Inspection Items	Sample	Test Method	Ref	Specified	Actual Result
抗拉强度 WEDGE TENSILE	5	ISO988.1		Min. 1220N/MM2	1290-1313N/MM2
表面硬度H SURFACE HARDNESS	15	ASTM E384		Max. 43HRV	41.0-42.9HV
心部硬度 CORE HARDNESS	15	ISO988.1		39-44HRC	41-42.3HRC

备注:

1. 所标称之尺寸单位为mm,另有指定除外。
THE UNIT OF SIZE IN THE LECTURE IS MM, EXCEPT OTHERWISE SPECIFIED.
2. 以上试样的检测符合紧固件的标准或上面列出的标准。
THE TESTING METHODS OF SAMPLE ABOVE ARE IN KEEPING WITH THE STANDARD OF FASTENER OR THE STANDARD TABULATED ABOVE.
3. 其中材料化学成分由供方普钢厂提供。
CHEMICAL COMPOSITION OF THE MATERIAL SUPPLIED BY SUPPLIER STEEL MILLS.
4. 未印此报告无效。
THE LECTURE INVALID WITHOUT A SEAL.

普亿实业股份有限公司
GEM-YEAR INDUSTRIAL CO., LTD.
产品合格证
Certificate Of Quality

地址ADDRESS: 浙江省嘉兴市嘉善经济开发区普亿大道8号 NO. 8 GEM-YEAR ROAD, E. D. Z., JIASHAN, ZHEJIANG, P. R. CHINA	电话 Tel: (0573) 84185001 (8Lines) 传真 Fax: (0573) 84184488 84184567 报告编号: 1B2391207 报告日期: 2025/03/18
制造厂MANUFACTORY: 普亿实业股份有限公司	抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019
品名COMMODITY: GB/T 70.1 内六角螺钉 半牙	等级PROPERTY CLASS: CL 12.9
规格 SIZE: M0-1.25X70	炉号 HEAT NO.: 23306323
批号 LOT NO: 1B2391207	材质 MATERIAL: SCM435
数量SHIP QUANTITY: 108,800 PCS	表面处理 FINISH: 热处理 发黑

品质主管 SIGNATURE:



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制造厂MANUFACTORY: 普亿实业股份有限公司	抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019
品名COMMODITY: GB/T 70.1 内六角螺钉 半牙	等级PROPERTY CLASS: CL 12.9
规格 SIZE: M0-1.25X70	炉号 HEAT NO.: 22115146
批号 LOT NO: 1B23413761	材质 MATERIAL: SCM435
数量SHIP QUANTITY: 54,400 PCS	表面处理 FINISH: 热处理 发黑

化学成分分析/Percentage Composition Of Chemistry

化学成分	C%	Cr%	Mn%	Mo%	Ni%	P%	S%	Si%
Composition Of Chemi	0.3500	0.9400	0.6500	0.1810	0.0200	0.0160	0.0040	0.2000

尺寸检测 Dimensional Inspections: DIN912

检测项目	抽样数	检测方法	参考值	标准值	实测值
Inspection Items	Sample	Test Method	Ref	Specified	Actual Result
公称长度 NOMINAL LENGTH	15	JY/T 9151		69.4-70.6	70.03-70.26
螺纹长度 THREAD LENGTH	15	JY/T 9151	28		29.56-29.78
驱动部分的深度 DEPTH OF THE INTERNAL DRIVING FEATURE	15	JY/T 9151		Min. 4	4.03-4.08
无螺纹部分直径 DIAMETER OF THE UNTHREADED SHANK	5	JY/T 9151		7.78-8	7.85-7.9
内六角对边宽度 SOCKET WIDTH ACROSS FLATS	5	JY/T 9151		6.02-6.14	6.04-6.08
头部高度 HEIGHT OF THE HEAD	5	JY/T 9151		7.64-8	7.85-7.9
外观 SURFACE DISCONTINUITIES	29	ISO6157.3		-	OK
螺纹精度 5e6g	5	JY/T 9151		5e6g	OK
头部直径 DIAMETER OF THE HEAD	15	JY/T 9151		12.73-13.27	13.03-13.09
螺纹基本大径 BASIC MAJOR DIAMETER OF THE HEAD	5	JY/T 9151		7.76-7.97	7.85-7.9

机械性能检测 Mechanical Properties: ISO 898.1-2013

检测项目	抽样数	检测方法	参考值	标准值	实测值
Inspection Items	Sample	Test Method	Ref	Specified	Actual Result
抗拉强度 WEDGE TENSILE	5	ISO988.1		Min. 1220N/MM2	1316-1320N/MM2
表面硬度H SURFACE HARDNESS	15	ASTM E384		Max. 43HRV	41.2-41.8HV
心部硬度 CORE HARDNESS	15	ISO988.1		39-44HRC	41-42HRC

备注:

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THE TESTING METHODS OF SAMPLE ABOVE ARE IN KEEPING WITH THE STANDARD OF FASTENER OR THE STANDARD TABULATED ABOVE.
3. 其中材料化学成分由供方普钢厂提供。
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4. 未印此报告无效。
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制造厂MANUFACTORY: 晋亿实业股份有限公司 品名COMMODITY: GR/T 70.1 内六角螺钉 半牙 规格 SIZE: M6-1.25X70 批号 LOT NO: 1B24723761 数量SHIP QUANTITY: 54,400 PCS	抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019 等级PROPERTY CLASS: CL 12.9 炉号 HEAT NO: 22115146 材质 MATERIAL: SCM35 表面处理 FINISH: 热处理 发黑

品质主管 SIGNATURE: _____

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制造厂MANUFACTORY: 晋亿实业股份有限公司 品名COMMODITY: GR/T 70.1 内六角螺钉 全牙 规格 SIZE: M6-1.00X18 批号 LOT NO: 1B24723762 数量SHIP QUANTITY: 147,563 PCS	抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019 等级PROPERTY CLASS: CL 12.9 炉号 HEAT NO: 24307168 材质 MATERIAL: SCM35 表面处理 FINISH: 热处理 发黑

品质主管 SIGNATURE: _____

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制造厂MANUFACTORY: 晋亿实业股份有限公司 品名COMMODITY: GR/T 70.1 内六角螺钉 全牙 规格 SIZE: M6-1.00X18 批号 LOT NO: 1B24723762 数量SHIP QUANTITY: 147,563 PCS	抽样标准 SAMPLING PLAN: ASME B18.18-2021/ASTM F1470-2019 等级PROPERTY CLASS: CL 12.9 炉号 HEAT NO: 24307168 材质 MATERIAL: SCM35 表面处理 FINISH: 热处理 发黑

品质主管 SIGNATURE: _____

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化学成分分析 Percentage Composition Of Chemistry									
Composition Of Chemi	C%	Cr%	Cu%	Mn%	Mo%	Ni%	P%	S%	Si%
	0.3500	0.9200	0.0200	0.7200	0.1600	0.0200	0.0180	0.0020	0.1900

尺寸检测 Dimensions Inspections: DIN912					
检测项目 Inspection Items	抽样数 Sample	检测方法 Test Method	参考值 Ref	标准值 Specified	实测值 Actual Result
内六角对边宽度 INNER SIX ANGLE EDGE WIDTH	15	JB/T 9151		Min. 5.72	5.72-5.78
头部直径 DIAMETER OF THE HEAD	15	JB/T 9151		9.78-10.22	10.03-10.09
公称长度 NOMINAL LENGTH	15	JB/T 9151		17.7-18.3	18.03-18.09
头部高度 HEIGHT OF THE HEAD	5	JB/T 9151		5.75-6	5.85-5.9
外观 SURFACE DISCONTINUITIES	29	ISO6157.3		-	OK
螺纹精度 THREAD	5	JB/T 9151		5g6g G0 5g6g N0G0	OK
支撑面至第一扣完整螺纹的距离 DISTANCE FROM THE BEARING FACE TO THE FIRST FULL FORM THREAD	15	JB/T 9151		1-3	1.03-1.09
驱动部分的深度 DEPTH OF THE INTERNAL DRIVING FEATURE	15	JB/T 9151		3-3.3	3.03-3.09
内六角对边宽度 SOCKET WIDTH ACROSS FLATS	5	JB/T 9151		5.02-5.14	5.02-5.08
螺纹基本大径 BASIC MAJOR DIAMETER OF THREAD	15	JB/T 9151		5.79-5.97	5.85-5.9

机械性能检测 Mechanical Properties: ISO 808.1-2013					
检测项目 Inspection Items	抽样数 Sample	检测方法 Test Method	参考值 Ref	标准值 Specified	实测值 Actual Result
抗拉强度 WEDGE TENSILE	5	ISO98.1		Min. 1200N/MP2	1306-1310N/MP2
芯部硬度 CORE HARDNESS	15	ISO98.1		39-44HRC	40.8-41.5HRC
表面硬度 SURFACE HARDNESS	15	ISO98.1		Max. 43HIV	41.0-42.0HIV

备注:
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 CHEMICAL COMPOSITION OF THE MATERIAL SUPPLIED BY SUPPLIER STEEL MILLS.
 4. 无印章此报告无效。
 THE LECTURE INVALID WITHOUT A SEAL.

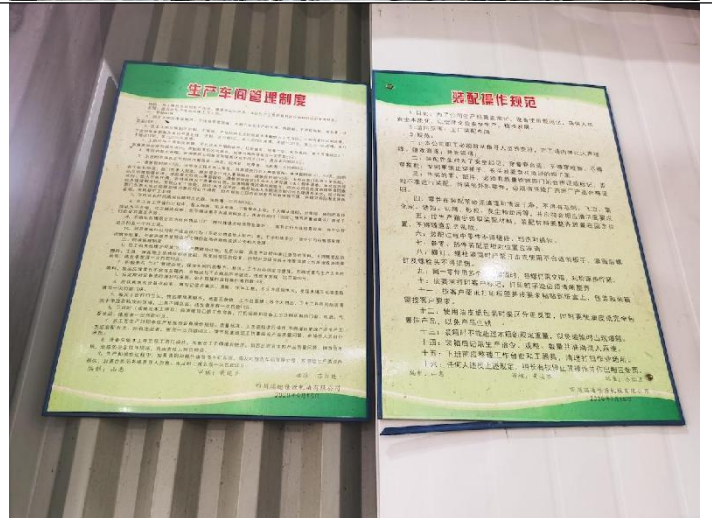
N/A

Other photos

Production Shop Floor







Anti-oxidation Treatment Site







Transport Outer Packaging







Carton Label



N/A

Factory Gate



--The End Of Report--