

Additional supplier information

10.03.2023



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I Documentation of components

Legal basis

In order to ensure the safety of products, state laws and regulations of private organizations oblige manufacturers and installers of technical products to provide "technical documentation".

In the EU, relevant <u>EC directives</u> such as the <u>Machinery Directive</u>, the <u>ATEX</u>
Directive, the <u>Low Voltage Directive</u>, the <u>Pressure Equipment Directive</u> or the Product Safety Directive, which have been transposed into national law by the member states (e.g. <u>German Product Safety Act</u> or <u>Medical Devices Act</u>), must be mentioned.

In the event of damage, faulty technical documentation leads to <u>liability</u> on the part of the manufacturer arising from the <u>Product Liability Act</u>, the <u>German Civil</u> Code (§ 823 Liability for damages) and any individual contractual obligations.

Due to these requirements, it is essential that Broetje-Automation and its suppliers ensure complete documentation.

- 1. Minimum requirements for documents are to be delivered
- The complete documentation must be sent to the mail address of the delivery address of the respective BA Group with goods issue.

<u>SQA@Broetje-Automation.de</u> (Adress: Broetje-Automation GmbH, Am Autobahnkreuz 14, 26180 Rastede)

<u>SQA-BAC@Broetje-Automation.com</u> (Adress: Site BA China) <u>see SLIDE 4</u>

- 3. Each delivery is accompanied by the delivery note and the accompanying documents required according to the respective component-related test plan for the unambiguous identification of the components.
- 4. The delivery of an order item is only regarded as complete and forwarded for invoice release if the goods including the required documents are available.



II Provision of documentation

Requirements

According to Broetje requirement the documentation is to be delivered in digital format:

Document "Provision of Documentation" is available on the Broetje Homepage via Downloads: http://www.broetje-automation.de/en/downloads/

Quality Assurance

8D-Report_01.pdf

Application_for_rework_BA

Provision of Documentation

Partial deliveries

In the case of partial deliveries, the uniqueness of delivered components in the documentation supplied must be maintained.

- Documents to be produced per drawing must be sent with the respective part at the time of delivery.
- Cross-sectional documents must also be adapted to the deliveries. Example: certificate of compliance:
 - For each partial delivery, a certificate of compliance with the order must be enclosed with the individual order items delivered.



1. OVERVIEW TEST PLANS

Including Revision updates

10.03.2023





1 Overview test plans

			Prüfpläne / Test Plans / 测试计划										
BROETJE AUTOMATION			nur Sichtkontrolle BA only visual check by EA 反音動 EA	Mess- und Prüfmittel Aleasurement and test equipment 测量以及性测设备	CNC Teile CNC parts 教権加工署件			S VT Teile Velding parts 焊接邮件				Beschaffung Baugruppen/ Gewerk Proourement of assembly / sections 组件機價的采购	Zusatz- anforderungen additional requirements 附加要求
Kontext context 内容	test plan requirement (EN)	检测方案要求 (CN)	07	08	10	11	20	23	25	27	29	BGR/GEW	13
Verksbescheinigung Certificate of conformity 合格证书	according to document template "Cert of Conformity" provided on	合格证书:按照宝尔捷自动化主页(下载)上提供的文档模板"合格证书(Cert of Conformity)"对每个采购订单进行验证(DIN EN 10204- 2.1)。			х	х	х	x	х	x	х		
Messprotokoll measurement report 测量报告	Measurement report: all test dimensions recorded for every part (no measurement allowed on machining center or manufacturing machine).	测量报告:记录每个零件的所有检测尺寸(不允许在加工中心或制造 用机器上进行测量)。			х	х	x	х	X	x	х		
Hārte Hardness 硬度	Hardness test certificate: Hardness specifications must be verified according to DIN EN ISO 6506-1, 6507-1, 6508-1 Chapter inspection report.	硬度检测证书:硬度规格必须根据 DIN EN ISO 6506-1, 6507- 1, 6508-1中"检测报告"章节来进行验证。				х							
Lackierung coating 除装		涂装:通过确认涂层厚度和颜色,依据采购订单,确认按照专业方式 执行。				х	x	x	X	x	х		
Personalqualifikation personnel qualification 人员变属	Welder's qualification test certificates on request according to DIN EN ISO 9606.	根据DIN EN ISO 9606要求提供焊工的资格证书。					X	X	X	X	X		
CE 认证	1030-1.	CE 标志和性能声明符合 DIN EN 1090-1标准。					X	X					
Prüfbescheinigungen	3.1 Inspection certificate (verification per part and traceability for every part necessary). 2.2 Test report (verification per part and traceability for every part necessary).	3.1检查证书(必需验证每个零件并追除每个零件) 2.2检测报告(必需验证每个零件并追除每个零件)	BA inter	nal		Х							
inspection certificates 检测证书	Test certificate acc. EN 10204. Steel/Cast < 275N/mm²: Test report 2.2 Steel/Cast > 275N/mm²: inspection certificate 3.1	到试报告,依据EN10204 例特〈275N/mm*: 2.2则试报告 机特〉275N/mm*: 3.批验证书 标合金:3.比验证书		I.I.G.I			х	x	х	х			
	Inspection and documentation of weld seams according to DIN EN 1090-2 chapter 12.4.2	依据 DIN EN 1090-2 第 12.4.2 节检查焊缝并进行相应的文档记录					Х						
	Inspection and documentation of weld seams according to DIN EN 1090-3 chapter B.2.3	依据 DIN EN 1090-3 第 B.2.3 节检查焊缝并进行相应的文档记录						X					
SchweiBausführung welding executioin 焊接实施	welded parts according to 150 97 I2 and valid eye test required. For welded parts according to test plan 29, only to be supplied on	根据 ISO 17637 对焊键进行目视检查。检查员根据 ISO 9712 获得资格并需要进行有效的眼睛测试。 对于焊接件,根据检验计划 23、仅应要求提供。 似有必要,根据虽然们单中的要求进行进一步的无损检测							x	х	x		
	Test reports ZfP as indicated on the drawing	无损材料检测的检测报告符合图纸上的要求。							X	X			
	Heat treatment record (if heating is indicated on the drawing)	热处理记录(如果图纸上标明热处理)				x			x	x	x		
Zusatzanforderungen additional requirements 附加要求	additional requirement, see purchase order	附加的要求,请参见采购订单。											х
Anforderungen Baugruppen/ Gewerk assembly/ sections requirements 组件/行业要求		在下订单之前,必须书面单独确定宝尔捷与供货商之间的要求。, 请参见采购订单。										х	



2. DETAIL INFORMATION TEST PLANS

Incl. changes in Revision

10.03.2023

COMPOSED TO COMPETE



Test plan request (EN)	Additional information	Change (Rev4)
Certificate of conformity: Certificate of conformity: Verification per purchase order according to document template "Cert of Conformity" provided on Broetje-Automation homepage (Downloads) (DIN EN 10204-2.1)	Detection options: - Broetje-Automation template on homepage (http://www.broetje-automation.de/de/downloads/) or - Document acc. EN 10240-2.1 One document per order delivery is to be created. One document per delivery in case of partial deliveries (see slide 4). Example see slide 10/11	No change.
Measurement report: Measurement report: all test dimensions recorded for every part (no measurement allowed on machining center or manufacturing machine).	If an inspection dimension is indicated on the drawing, all inspection dimensions must be recorded in the drawing and documented on the measurement report. Example see slide 13	No change.
Hardness: Hardness test certificate: Hardness specifications must be verified according to DIN EN ISO 6506-1, 6507-1, 6508-1 Chapter inspection report.	In the chapters "Test report" of the required standards you will find a list of the information that must be verified. Alternatively, the design according to DIN EN 10204 in chapter "Acceptance Test Certificate 3.1" is also possible for confirmation.	No change.



Test plan request (EN)	Additional information	Change (Rev4)		
Coating: If applicable: Confirmation of professional execution according to purchase order must be provided with confirmation of paint thickness and colour.	 Possible verification layer thickness: Paint layer thickness: Values to be noted on drawing Proof of colour shade: Delivery note for painter All other types of coating (if required on the drawing) are confirmed by the supplier by means of proof of the works certificate. 	No change.		
Personnel qualification: Welder's qualification test certificates on request according to DIN EN ISO 9606.	For every welding part the test certificate of the qualified person who welded the part is to be delivered. Note data security: Minimum identification requirement on certificate that must not be blackened: Full employee name of the certificate holder.	No change.		
CE: CE marking and declaration of performance in accordance with DIN EN 1090-1.	Delivery of the CE if requested according to DIN EN 1090-1.	No change.		



Test plan request (EN)	Additional information	Change (Rev4)
Inspection certificates: 3.1 Inspection certificate (verification per part and traceability for every part necessary).	Document to be supplied for semi-finished products according to DIN EN 10204. The certificate shall be assignable to the part.	No change.
Inspection certificates: 2.2 Test report (verification per part and traceability for every part necessary).	Document to be supplied for semi-finished products according to DIN EN 10204. The certificate shall be assignable to the part.	No change.
Inspection certificates: Material test certificates in accordance with DIN EN 1090-2, Chapter 5.2 table1 (steel), DIN EN 1090-3, table A3 section 5 (aluminium) respectively.	Execution and delivery of documentation according to standard requirements. Overview regarding material allocation + test certificates, please see slide 18	No change.
Welding execution: Inspection and documentation of welding seams according to DIN EN 1090-chapter 12.4.2	Execution and delivery of documentation according to standard requirements	No change.
Welding execution: Inspection and documentation of welding seams according to DIN EN 1090-3 chapter B.2.3	Execution and delivery of documentation according to standard requirements	No change.



Test plan request (EN)	Additional information	Change (Rev4)			
Welding execution: Visual inspection of welds according to ISO 17637. Inspector qualified according to ISO 9712 and valid eye test required. For welded parts according to test plan 29, only to be supplied on request. If necessary, further NDT according to requirements in drawing/order.	Options for verification: - BA Template on homepage (http://www.broetje- automation.de/de/downloads/) or - Document with identical information created by the supplier Test personnel: qualified and appropriate personnel on an adequate qualification level according to DIN EN ISO 9712 and valid eye test.	New wording. Formerly: Documented visual inspection (VT): Document template BA according to template Certificate of Compliance on homepage Broetje-Automation (Downloads). For welded parts according to test plan 29, to be supplied on request only. Addition: further Zfp.			
Test reports ZfP according to requirements on the drawing	If NDT records are required in addition to the visual inspection (VT, see requirement above), this is indicated on the drawing or the respective welding symbol. See also BA company standard BN 30.070. Test personnel: qualified and appropriate personnel on an adequate quality level according to DIN EN ISO 9712	·			
Welding execution: Heat treatment record (if heating is indicated on the drawing).	Documented execution according to welding stamp on the drawing or welding-related technical drawing appendix (on old drawings) according to ISO TR14745.				
Additional requirement, see purchase order.	This is an additional request that exceeds the standard test plans due to e.g. additional Broetje customer requirements. If required, details are additionally included into the purchase order.	No change			



Test plan request (EN)	Additional information	Change (Rev4)
Assembly / Sections requirements: Requirement needs to be defined in writing between BA and supplier before placing of order. See purchase order.		No change.



3. TEMPLATES

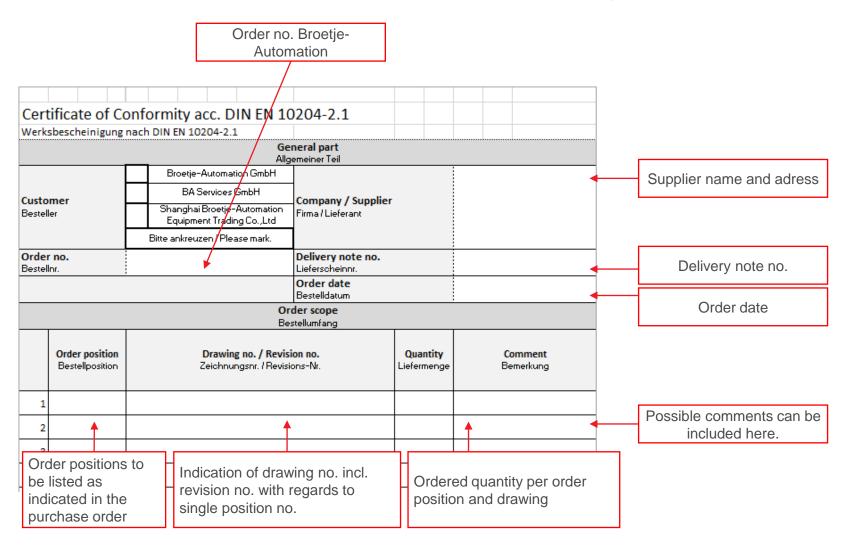
Homepage Broetje-Automation

http://www.broetje-automation.de/en/downloads/



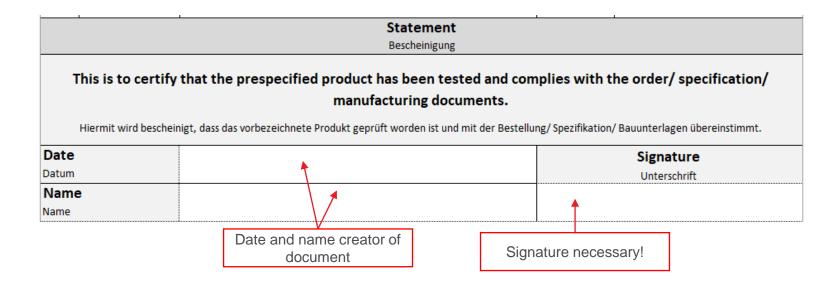


3.1 Template Certificate of conformity (1/2)





3.1 Template Certificate of conformity (2/2)

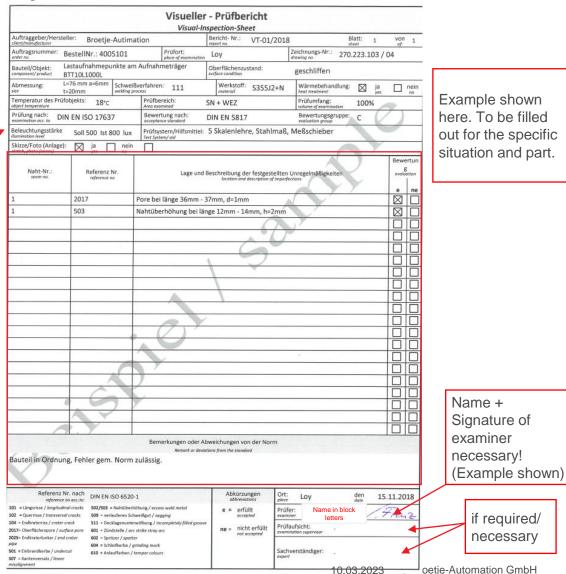




3.2 Template Visual inspection sheet

Fill-in aids via drop-down cells in the document header, e.g.: "acceptance standard"

To be filled out in case of imperfections/ irregularities according to the standard





3.3 Template measurement report

Manually filled out protocols.

QA - Measurement Report

QS - Messprotokoll



General information

Measurement device information

Results and evaluation

Examiner / signature / location

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suppl Auftrag	lier / manufa geber / Herstelle	acturer: r:	Bauteil				onent ezeichn	desig	gnation:		
order no.: Bestell Nr.:					drawing no.: Zeichnungsnummer:						
						ng inc					
Projekt modu							ngsinder				
Baugru							numi: ummer:	er:			
	umber:								·		
Protoko	olinummer:			used	l measu	reme	ent de	vice			
			T		Verwendet	te Mes	smittel				
	urement de itteltyp:	vice:									
	measureme	ent device:									
	e Messmittel: e Ident. No.	:									
Messm	ittelnummer:										
			result Befund						evaluation Bewertung		
PM	inspec. Dim.	set point	tolerance	act. value	deviat		o.k	n.o.k	k Remarks		
PM	Prüfmaß	Sollwert	Toleranz	Istwert	Abweich	nung	i.O.	n.i.O.	. Bemerkungen		
1											
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Unterso	Unterschrift des Prüfers:						Ort der Prüfung:				



Prüfbescheinigungen / test certificates

Zuordnung Material/ material allocation <-> Prüfbescheinigungen/ test certificate SWT-Teile/ welded parts							
S185; S235; S275	2.2	Bei Prüfplan 29 kein Materialzeugnis notwendig/ no material certificate required for inspection plan 29					
DC01; DD11	2.2	Bei Prüfplan 29 kein Materialzeugnis notwendig/ no material certificate required for inspection plan 29					
Schweißzusätze/ welding fillers	2.2	Bei Prüfplan 29 kein Materialzeugnis notwendig/ no material certificate required for inspection plan 29					
≥ \$355	3.1	Bei Prüfplan 29 kein Materialzeugnis notwendig/ no material certificate required for inspection plan 29					
Nichtrostende Stähle/ stainless steels (1.4301; 1.4305; 1.4571;	3.1	Bei Prüfplan 29 kein Materialzeugnis notwendig/ no material certificate required for inspection plan 29					
Aluminium (EXC1 / 3834-4)	2.2	Bei Prüfplan 29 kein Materialzeugnis notwendig/ no material certificate required for inspection plan 29					
Aluminium (≥ EXC2 / 3834-3)	3.1	Bei Prüfplan 29 kein Materialzeugnis notwendig/ no material certificate required for inspection plan 29					



Test plan requirements according to the respective order are leading.

= If former inspection plans are still integrated in purchase orders, these form the requirement basis and have to be fulfilled by the supplier.

Broetje-Automation will of course support in case of need for clarification.

Contact persons:

- Purchaser of single purchase order
- Clarification will then be done internally at Broetje and information will be communicated back to the supplier.



THANK YOU!

10.03.2023

