

Additional supplier information

29.01.2024



I	Documentation of components
II	Provision of documentation
1	Overview test plans
2	Detail information test plans
3	Broetje-Automation templates (Homepage)
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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 Code</u> (§ 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 3</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: https://broetje-automation.de/downloads/

QUALITY ASSURANCE

- Application_for_rework_BA 😃

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.



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1 Overview test plans

		Prüfpläne / Test Plans / 测试计划										
BROETJE AUTOMATION		nur Sichtkuntralle BA anly wwo lehrek by EN 双石洲 EN	Herr-und Pröfmittel Measurement and test ewipment 海里及有限企業	CMC CNC 数核加	SWT Toile Woldingports 學按照作					Barchaffung Baugruppant Gauark Procurement of arrembly groups frections (AG) 组件故價的果物	Zuratxanfurderung en additionalrequirements 掛加要求	
Kentest context 四各	test plan requirement (EN)	07		10	11	20	23	25	27	29	BGRIGE₩ <i>AG</i>	13
Vorksboschoiniqunq Cortificato of conformity 合格证书	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)			×	×	×	×	×	×	×		
Messprutukuli messurementropurt 測量报告	Measurement report: all test dimensions recorded for every part (no measurement allowed on machining center or manufacturing machine).			×	×	×	×	×	×	×		
Herte Hardness 便度	Hardness test certificate: Hardness specifications must be verified according to DIM EM ISO 6506-1, 6507-1, 6508-1 Chapter inspection report.				×							
Lackierung coating 放装	Coating: Confirmation of professional execution according to purchase order must be provided by confirmation of paint thickness and color.				х	×	x	x	×	×		
Persunalqualifikatiu n persunnelaualificatiun	Welder's qualification test certificates on request according to DIN EN ISO 3606.					х	х	х	×	×		
CE 认证	CE marking and declaration of performance according to DIN EN 1090-1.					х	х					
Prüfborchoiniquago	3.1 Inspection certificate (verification per part and traceability for every part necessary). 2.2 Test report (verification per part and traceability for every	Not-applicabl			x			ļ	ļ			
Preparchamique quadrille in a service in a	part necessary). Material test certificates in accordance with DIN EN 1030-2, chapter 5.2 table 1 [steel]. DIN EN 1030-3 table A3 section 5 [suluminium] respectively.	supplie	rs			×	×	x	×			
	Inspection and documentation of weld seams according to DIN EN 1030-2 chapter 12.4.2					×						
	Inspection and documentation of weld seams according to DIN EN 1090-3 chapter B.2.3					<u>.</u>	x		<u> </u>	<u>]</u>		
Schweißeurführung weldingexecutioin 彈投玄族	Visual inspection of welds according to ISO 17637. Inspector qualified according to ISO 3712 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.							×	×	×		
	Test reports ZfP as indicated on the drawing					Ì		х	х			
	Heat treatment record (if heating is indicated on the drawing)				×			х	×	×		
Zeretzenfurderunge n edditional requirementr Whows	additional requirement, see purchase order											×
Anfurderungen Baugruppenf Gewerk assembly/sections requirements 相性/行业要求	requirement needs to be defined in writing between BA and supplier before placing of order. See purchase order.										×	



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Test plan request (EN)	Additional information
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
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
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.



Test plan request (EN)	Additional information
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.
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.
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.



Test plan request (EN)	Additional information
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.
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.
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
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
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



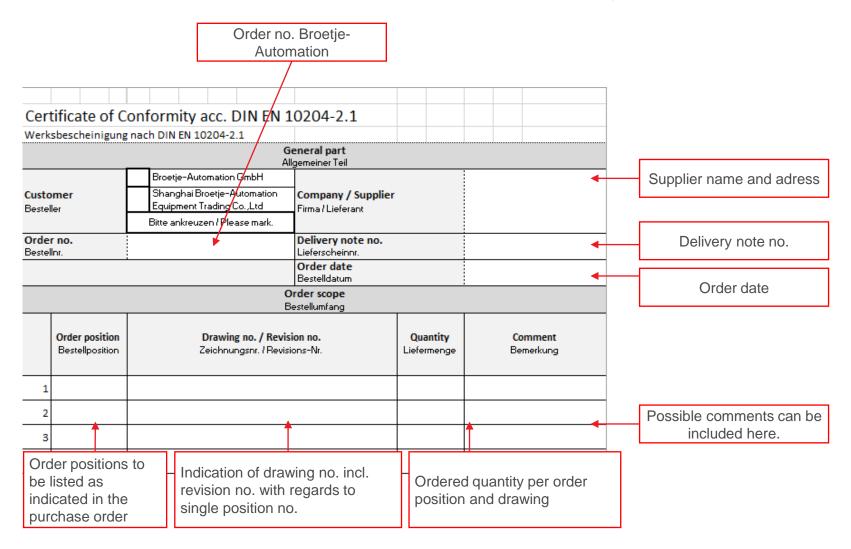
Test plan request (EN)	Additional information					
Welding execution: Visual inspection of welds according to ISO 17637. Inspector qualified according to ISO 9712 and valid eye test required. For welded parts according to test plan 29, only to be supplied on request. If necessary, further NDT according 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.					
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.					
Assembly / Sections requirements: Requirement needs to be defined in writing between BA and supplier before placing of order. See purchase order.						



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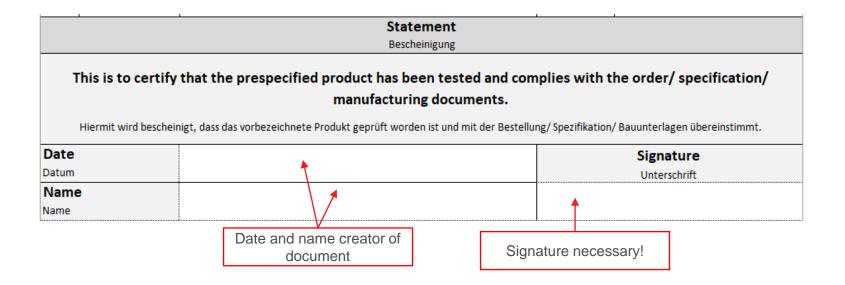


3.1 Template Certificate of conformity (1/2)





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

Visueller - Prüfbericht Visual-Inspection-Sheet Bericht- Nr.: VT-01/2018 Broetje-Autimation von 1 BestellNr.: 4005101 Prüfort: place of exa Zeichnungs-Nr.: 270.223.103 / 04 Lastaufnahmepunkte am Aufnahmeträger Bauteil/Objekt: Oberflächenzustand: geschliffen BTT10L1000L L=76 mm a=6mm | Schweißverfahren: 111 Werkstoff: S355J2+N Abmessung: ☑ ja ☐ nein t=20mm Temperatur des Prüfobjekts: Prüfbereich: Prüfumfang: 18°C SN + WEZ Prüfung nach: Bewertung nach: Bewertungsgruppe: **DIN EN 5817** Prüfsystem/Hilfsmittel: 5 Skalenlehre, Stahlmaß, Meßschieber Beleuchtungsstärke Soll 500 1st 800 lux Skizze/Foto (Anlage): ja nein Naht-Nr.: Referenz Nr. Lage und Beschreibung der festgestellten Unregelmäßigkeite Pore bei länge 36mm - 37mm, d=1mm M C Nahtüberhöhung bei länge 12mm - 14mm, h=2mm Bemerkungen oder Abweichungen von der Norm Bauteil in Ordnung, Fehler gem. Norm zulässig Referenz Nr. nach DIN EN ISO 6520-1 Abkürzungen Ort: 15.11.2018 Loy 101 = Längsrisse / longitudinal cracks 502/503 = Nahtüberhöhung / excess weld metal e = erfüllt Priifer Name in block 102 = Querrisse / transversal cracks 509 - verlaufenes Schweißgut / sagging ne = nicht erfüllt rüfaufsicht: 2017= Oberflächenpore / surface pore 601 = Zündstelle / arc strike stray arc 2025- Endkraterlunker / end croter 602 = Spritzer / spatter 604 = Schleifkerbe / grinding mark 501 = Einbrandkerbe / undercut Sachverständiger: 610 = Anlauffarben / temper colours 507 = Kantenversatz / Neor

Example shown here. To be filled out for the specific situation and part.

Name + Signature of examiner necessary! (Example shown)

> if required/ necessary



3.3 Template measurement report

Manually filled out protocols.



QS - Messprotokoll



General information

Measurement device information

Results and evaluation

Examiner / signature / location

								Stand: 21.11.2018				
					general Allgemeine							
supplier / manufacturer: compo					ponen	t desig	gnation:					
order	order no.: drawii					ving no	bezeichnung /ing no.:					
Bestell I Proje							ungsnummer: /ing index.:					
Projekt					Zeich	nungsinde	ex:					
modu Baugrup						al numi						
	ımber:							·				
TOTORO	and an				l measurer							
meas	urement dev	/ice:			Verwendete M	essmittel						
Messmi												
Sonstige	e Messmittel:											
	e Ident. No.: ttelnummer:											
			result Befund					evaluation Bewertung				
	inspec. Dim.	set point	tolerance	act. value	deviation		n.o.k	Remarks				
PM	Prüfmaß	Sollwert	Toleranz	Istwert	Abweichung	i.O.	n.i.O.	Bemerkungen				
1						+						
2						-	_					
3												
4												
5												
6												
7												
8												
10												
11												
12												
13												
14						+						
15												
16						1						
10			1		exami	ner	_					
name	of examine	r:			Prüfe		of exa	amination:				
Name d	lame des Prüfers:					Datum der Prüfung:						
	ture of exam hrift des Prüfers:	iner:				location of examin.: Ort der Prüfung:						
	<u> </u>											



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Prüfbescheinigungen / test certificates

Zuordnung Material/ material allocation <-> Prüfbescheinigungen/ test certificate							
SWT-Teile/ welded parts							
Material/ material:	Prüfbescheinigung/ test certificate:	Hinweis/ reference:					
\$185; \$235; \$275	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					

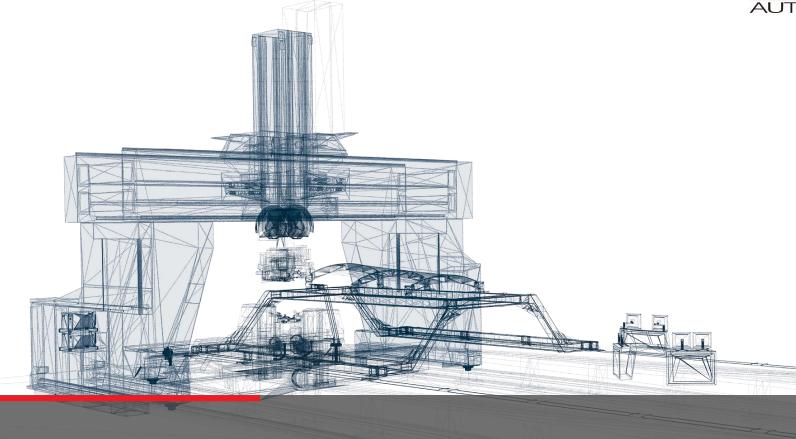


4 Additional information

Test plan requirements according to the respective order are leading.

Broetje-Automation will of course support in case of need for clarification. Contact person: Purchaser of relevant purchase order.





Thank you!