



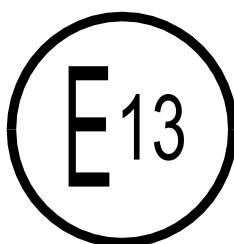
Référence: E13*55R01/07*4675*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Luxembourg, le 03 février 2020

Communication concernant: (2)

Communication concerning:



- la délivrance d'une homologation

approval granted

- l'extension d'homologation

approval extended

- le refus d'homologation

approval refused

- le retrait d'homologation

approval withdrawn

- l'arrêt définitif de la production

production definitely discontinued

d'un type de dispositif ou de pièces mécaniques d'attelage en vertu du Règlement N° 55.

of a type of mechanical coupling device or component pursuant to Regulation N° 55.

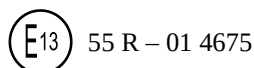
Numéro d'homologation:

Approval number:

E13*55R01/07*4675*00

Marque d'homologation:

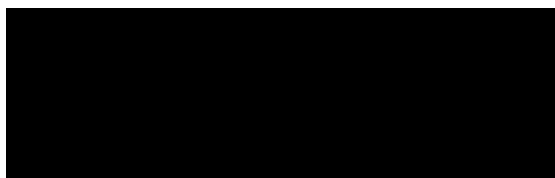
Approval mark:



- 1. Marque de fabrique ou de commerce du dispositif ou des pièces:**
Trade name or mark of the device or component:
- 2. Nom du fabricant du type du dispositif ou des pièces:**
Manufacturer's name for the type of device or component:
- 3. Nom et adresse du fabricant:**
Manufacturer's name and address:
- 4. Le cas échéant, nom et adresse du représentant du constructeur:**
If applicable, name and address of manufacturer's representative:
- 5. Noms et marques de fabrique d'autres fournisseurs figurant sur le dispositif ou les pièces:**
Alternative supplier's names or trademarks applied to the device or component:

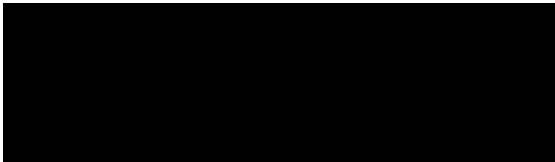


42600



Not applicable

Not applicable

6.	Nom et adresse de la société ou de l'organisme chargé de vérifier la conformité de la production: Name and address of company or body taking responsibility for the conformity of production:	
7.	Soumis à l'homologation le: Submitted for approval on:	19.11.2019
8.	Autorité déléguée: Assigned authority:	Société Nationale de Certification et d'Homologation L-5201 Sandweiler
	Service technique chargé des essais d'homologation: Technical service responsible for conducting approval tests:	ATE EL S.à r.l. Op Huefdreisch 14 L-6871 Wecker
9.	Description sommaire: Brief description:	Detachable coupling ball
9.1.	Type et classe du dispositif et des pièces: Type and class of device or component:	42600; A50-X
9.2.	Valeurs caractéristiques: Characteristic values:	
9.2.1.	Valeurs de base: Primary values:	
	- D / Dc [kN]	12,5 kN
	- S [kg]	200 kg
	- U [t]	
	- V [kN]	
	Autres valeurs: Alternative values:	Not applicable
	- D [kN]	
	- Dc [kN]	
	- S [kg]	
	- U [t]	
	- V [kN]	
9.3.	Pour les dispositifs et les pièces mécaniques d'attelage de la classe A, y compris les barres d'attelage: For Class A mechanical coupling devices or components, including towing brackets:	
9.3.1.	Masse maximale admissible du véhicule selon le constructeur [kg]: Maximum permissible vehicle mass as declared by the vehicle manufacturer:	up to 2000 kg (*)
9.3.2.	Répartition de la masse maximale admissible du véhicule entre les essieux [kg]: Distribution of maximum permissible vehicle mass between the axles:	for category M1: front axle: min. 30% of [9.3.1], if S = 0 kg; or min. 20% of [9.3.1.], if S > 0 kg (*) (according to item 2.4.1. of the Regulation 1230/2012/EU); (*) for the exact values refer to the manufacturer's specifications (e.g. COC paper) for other categories: not applicable

9.3.3.	Masse maximale admissible de la remorque selon le constructeur [kg]: Vehicle manufacturer's maximum permissible towable trailer mass:	3500 kg
9.3.4.	Masse statique maximale admissible sur la boule d'attelage selon le constructeur [kg]: Vehicle manufacturer's maximum permissible static mass on coupling ball:	200 kg
9.3.5.	Masse maximale du véhicule avec sa carrosserie, en ordre de marche, y compris le liquide de refroidissement, les lubrifiants, le carburant, les outils et la roue de secours (si elle est fournie), mais à l'exclusion du conducteur [kg]: Maximum mass of the vehicle, with bodywork, in running order, including coolant, oils, fuel, tools and spare wheel (if supplied) but not including driver:	1200 kg
9.3.6.	Condition de charge auxquelles la hauteur de la boule d'attelage des véhicules de la catégorie M1 doit être mesurée – voir paragraphe 2 de l'appendice de l'annexe 7: Loading condition under which the tow ball high of a mechanical coupling device fitted to category M1 vehicles is to be measured – see paragraph 2 of annex 7, appendix 1:	Loading condition according annex 7, appendix 1 point 2.1.1.2
9.4.	Pour les têtes d'attelage de la classe B, la tête d'attelage est-elle destinée à être montée sur une remorque O1 non freinée: Oui/ Non 2 For class B coupling heads, is the coupling head intended to be fitted to an unbraked O1 trailer: Yes/ No	Not applicable
10.	Instructions relatives au montage du dispositif ou les pièces d'attelage sur le véhicule et photographies ou dessins des points de fixation (voir l'appendice 1 de l'annexe 2) indiqués par le constructeur du véhicule: Instructions for the attachment of the coupling device or component type to the vehicle and photographs or drawings of the mounting points (see Annex 2, Appendix 1) given by the vehicle manufacturer:	Every coupling device is accompanied by installation and operating instructions. In the case of supply for assembly-line use by vehicle builders or bodybuilders, the provisions of installation and operating instructions for each coupling device can be dispensed with. See annex MID, Drawing No. 42600-MANUAL
11.	Renseignements concernant le montage de barres ou de plaques de renfort spéciales ou d'entretoises nécessaires à la fixation du dispositif ou des pièces d'attelage (voir l'appendice 1 de l'annexe 2) : Information on the fitting of any special reinforcing brackets or plates or spacing components necessary for the attachment of the coupling device or component (see Annex 2, Appendix 1):	The mechanical coupling device shall only be attached to the mounting points indicated by the vehicle manufacturer with the fastening elements possibly specified by the vehicle manufacturer.
12.	Renseignements supplémentaires pour les cas où l'utilisation du dispositif ou des pièces d'attelage est limitée à des types particuliers du véhicule (voir annexe 5, par. 3.4.): Additional information where the use of the coupling device or component is restricted to special types of vehicles (see Annex 5, par. 3.4.):	Not applicable

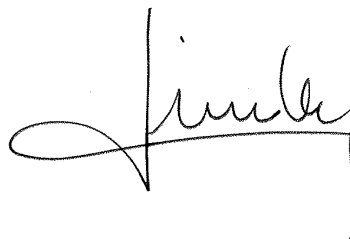
13. **Pour les attelages à crochet de la classe K, renseignements concernant les anneaux de timon compatibles:**
For Class K hook type couplings, details of the drawbar eyes suitable for use with the particular hook type: Not applicable
14. **Date du procès-verbal d'essai:**
Date of test report: 05.12.2019
15. **Numéro du procès-verbal d'essai:**
Number of test report: 61HYA0002A
16. **Emplacement de la marque d'homologation:**
Approval mark position: Engraved on the coupling, See the drawing of 42600-01
17. **Motif(s) de l'extension de l'homologation:**
Reason(s) for extension of approval: Not applicable
18. **L'homologation: ⁽²⁾**
Approval: Granted / ~~extended~~ / ~~refused~~ / ~~withdrawn~~
19. **Fait à:**
Place: Luxembourg
20. **Date:**
Date: 03 février 2020
21. **Signature:**
Signature:

Pour le Ministre de la Mobilité
et des Travaux publics



Alain DISIVISCOUR
Conseiller

Pour la SNCH




Laurent LINDEN
Directeur opérationnel



22. **La liste des documents déposés auprès du Service administratif qui a délivré l'homologation, qui est annexée à la présente communication, peut être obtenue sur demande.**
The list of documents deposited with the Administration Service which has granted approval is annexed to this communication and may be obtained on request.

See index to type-approval report

² **Rayer les mentions inutiles**
Strike out what does not apply



Référence: E13*55R01/07*4675*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Luxembourg, le 03 février 2020

Index du dossier d'homologation

Index to type-approval report

Numéro d'homologation:

Approval number:

E13*55R01/07*4675*00

Révision:

Revision:

00

Marque de fabrique ou de commerce:

Trade name or mark:



Type:

Type:

42600

1.

Procès-verbal d'essai:

Test report:

61HYA0002A

- Technical report:

Page 1 & 2

- Index:

Annex I1 – Page 1

- General information:

Annex GI1 – Page 1 to 3

- General Test report:

Annex T – Page 1 to 2

- Test photographs:

Annex P – Page 1

2.

Dossier du constructeur:

Report of the manufacturer:

Annex MID (N° 42600-00-R55.01)

- Manufacturer's information document:

Page 1 to 7

3.

Autres documents annexés:

Other documents annexed:

Not applicable

4.

Date de délivrance de l'homologation initiale:

Date of issue of initial type approval:

03.02.2020

5.

Date de la dernière délivrance de pages révisées:

Date of last issue of revised pages:

Not applicable

6.

Date de la dernière délivrance d'une homologation révisée:

Date of last extension:

Not applicable



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ALLIED TECHNOLOGY EXPERTS
ENTERPRISE OF LUXEMBOURG

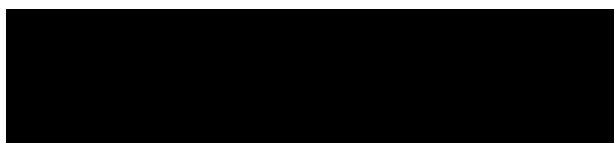
Technical Report No. 61HYA0002A

Tests and inspection concerning

MECHANICAL COUPLING COMPONENTS OF COMBINATIONS OF VEHICLES

according to the ECE Regulation No. 55 including all amendments up to Supplement 7 to the 01 series of amendments - Date of entry into force: 10.02.2018

Manufacturer:



Type:	Type Approval No.:	Manufacturer:
42600	E13*55R01/07*....*00	

Conclusion:

The tests and checks carried out have shown the compliance of the type described in this report and the attached annexes with the Regulation mentioned above.

Shanghai, 05.12.2019

Ying (Joanna) Xu
Ingénieur Inspecteur

Index: see Annex I1



1 Tests and inspection results

Refer to Annex T

2 Type and variants

The tests and inspections carried out and described in this technical report have been selected in order to include the following variants and versions of the type and its equipments, as far as these are relevant for the topic of this report, into the judgement:

As stated in Annex MID (Manufacturer's Information Document):

Item:

- Make

0.1.

3 Remark

3.1 General:

None.



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ENTERPRISE OF LUXEMBOURG

Annex I1 Page 1

Technical Report No. 61HYA0002A
Type: 42600

Compilation of Dossier No.: 61HYA0002

Extension 00

Technical Report no.: 61HYA0002A

page 1 and 2

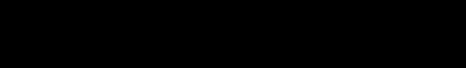
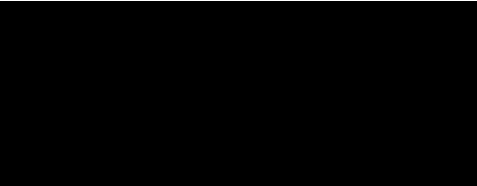
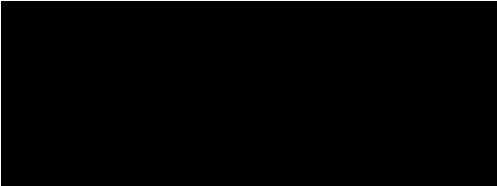
Composition of Annex:

I1:	Index	page 1
GI1:	General Information	page 1 to 3
T:	General Test Report	page 1 to 2
P:	Test Photographs	page 1
MID:	Manufacturer's Information Document	page 1 to 7
	Index of the Manufacturer's Information Document: See Annex MID	page 1



General Information

Numbering according to annex 1 of the ECE Regulation No. 55

1.	Trade name or mark of the device or component:	
2.	Manufacturer's name for the type of device or component:	42600
3.	Manufacturer's name and address:	
4.	If applicable, name and address of the manufacturer's representative:	Not applicable
5.	Alternative supplier's names or trade marks applied to the device or component:	Not applicable
6.	Name and address of company or body taking responsibility for the conformity of production:	
7.	Submitted for approval on:	19.11.2019
8.	Technical service responsible for conducting approval tests:	ATE EL S.à r.l. op Huefdreich 14 L-6871 Wecker
9.	Brief description:	Detachable coupling ball
9.1.	Type and class of device or component:	42600; A50-X
9.2.	Characteristic values:	
9.2.1.	Primary values:	
	D [kN]:	12.5 kN
	Dc [kN]:	Not applicable
	S [kg]:	200 kg
	U [t]:	Not applicable
	V [kN]:	Not applicable
	Alternative values:	Not applicable



General Information

- 9.3. For Class A mechanical coupling devices or components, including towing brackets:
- 9.3.1. Vehicle manufacturer' s maximum permissible vehicle mass: Up to 2000 kg(*)
- 9.3.2. Distribution of maximum permissible vehicle mass between the axles: For category M1:
front axle: min. 30% of [9.3.1.] if S = 0 kg(*);
front axle: min. 20% of [9.3.1.] if S > 0 kg(*);
(according to item 2.4.1. of the Regulation (EU) No 1230/2012);
(*)for the exact values refer to the manufacturer's specifications (e.g. COC paper)
For other categories: not applicable
- 9.3.3. Vehicle manufacturer' s maximum permissible towable trailer mass: 3500 kg
- 9.3.4. Vehicle manufacturer' s maximum permissible static mass on coupling ball: 200 kg
- 9.3.5. Maximum mass of the vehicle, with bodywork, in running order, including coolant, oils, fuel, tools and spare wheel (if supplied) but not including driver: 1200 kg
- 9.3.6. Loading condition under which the tow ball height of a mechanical coupling device fitted to category M1 vehicles is to be measured see paragraph 2 of annex 7, appendix 1: Loading condition according to Annex 7, Appendix 1, item 2.1.1.2
- 9.4. For class B coupling heads, is the coupling head intended to be fitted to an unbraked O1 trailer: Not applicable
10. Instructions for the attachment of the coupling device or component type to the vehicle and photographs or drawings of the mounting points (see Annex 2, Appendix 1) given by the vehicle manufacturer: Every coupling device is accompanied by installation and operating instructions. In the case of supply for assembly-line use by vehicle builders or bodybuilders, the provisions of installation and operating instructions for each coupling device can be dispensed with.
See annex MID,
Drawing no. 42600-MANUAL



General Information

- | | | |
|-----|---|--|
| 11. | Information on the fitting of any special reinforcement brackets or plates or spacing components necessary for the attachment of the coupling device or component (see Annex 2, Appendix 1) : | The mechanical coupling device shall only be attached to the mounting points indicated by the vehicle manufacturer with the fastening elements possibly specified by the vehicle manufacturer. |
| 12. | Additional information where the use of the coupling device or component is restricted to special types of vehicles - see annex 5, paragraph 3.4.: | Not applicable |
| 13. | For Class K hook type couplings, details of the drawbar eyes suitable for use with the particular hook type: | Not applicable |
| 14. | Date of test report: | 05.12.2019 |
| 15. | Number of test report: | 61HYA0002A |
| 16. | Approval mark position: | Engraved on the coupling,
See the drawing of 42600-01 |
| 17. | Reason(s) for extension of approval: | Not applicable |



General Test Report

The data in this section refer only to the items submitted to testing or inspection.

0 Abstract

0.1 Type: 42600

1 Dates and resources

1.1 Date of receipt of test item: 19.11.2019

1.2 Date of inspection(s): 19.11.2019 - 22.11.2019

1.3 Place of inspection(s): Shanghai Motor Vehicle Inspection
Certification & Tech Innovation Center
Co., Ltd.(SMVIC)
No.68, Yutian South Road, Anting,
Jiading District, Shanghai, China

1.4 Testing site and testing equipment:

All measuring and test equipment used to carry out the inspections are in accordance with ISO 17025 and the regulatory act(s) applied.

2 Test object

The mechanical coupling device or component is not designed for a specific vehicle type.

Type: 42600
Class: A50- X
Description:
ID: Sample 1



General Test Report

3 Tests and inspections

3.1 Test conditions

3.1.1 Dynamic test:

Amplitude of the test load:	±7.5 kN
Angle of force application:	-20°
Number of stress cycles:	2 x 10 ⁶
Test frequency:	9 Hz

3.1.2 Static test (secondary coupling):

Test force according to point 3.1.8. of Annex 6:	15 kN
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Pictures before and after the test can be found in Annex P

3.2. Conclusion

The result of the dynamic test is positive, in accordance with the prescriptions of Annex 6 of the Regulation.

The result of the static test is positive, in accordance with the prescriptions of Annex 6 of the Regulation. All parts of the mechanical coupling device or component whose failure could result in separation of the vehicle and trailer shall be made of steel - point 4.2. of the Regulation.



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Annex P Page 1

Technical Report No. 61HYA0002A
Type: 42600

General Photographs

1 Photographs before test



2 Photographs after test



Type: 42600

Date : 05.12.2019

Ext. : 00

UNIFORM PROVISIONS CONCERNING THE EC TYPE-APPROVAL OF:
MECHANICAL COUPLING COMPONENTS OF COMBINATIONS OF VEHICLES

REGULATION No. 55

(Information Document No. 42600-00-R55.01)

INDEX OF INFORMATION DOCUMENT

PAGE	CONCEPT	DATE
2	GENERAL	05.12.2019
2-3	CONNECTIONS BETWEEN DRAWING VEHICLES AND TRAILERS AND SEMI-TRAILERS	05.12.2019

INDEX OF DRAWINGS

Drawing No	Drawing description	Date
42600-01	Dimension of mechanical coupling-devices	05.12.2019
42600-02	Measurements for mounting the device mechanical coupling-devices	05.12.2019
42600-03	Position of mechanical coupling-devices	05.12.2019

INDEX OF INSTALLATION AND OPERATING INSTRUCTIONS

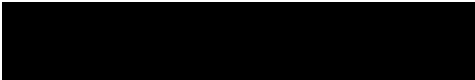
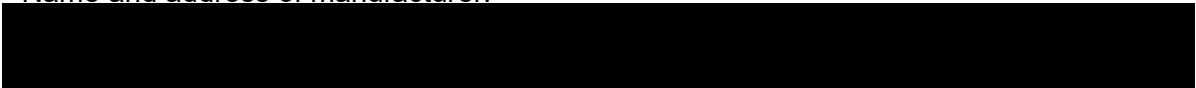
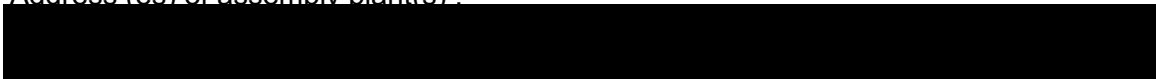
Reference No.	Description	Date
42600-Manual	INDEX OF INSTALLATION AND OPERATING INSTRUCTIONS	05.12.2019

Application history

Ext. No. /Corr. No.	Extension reason	Date
00	Not applicable(Base Approval)	05.12.2019

42600	Date : 05.12.2019
	Ext. : 00

0.0. GENERAL

- 0.1. Make (trade name of manufacturer): 
- 0.2. Type and commercial description: 42600
- 0.5. Name and address of manufacturer:

- 0.7. In the case of components and separate technical units, location and method of affixing of the EEC approval mark:
Engraved on the ball head.
See the drawing of 42600-01
- 0.8. Address (es) of assembly plant(s) :


1.0. CONNECTIONS BETWEEN DRAWING VEHICLES AND TRAILERS AND SEMI-TRAILERS

- 1.1. Detailed technical description (including drawings and material specification) of the type of the mechanical coupling device:
Detachable coupling ball.
See the drawing of 42600-01、42600-02、42600-03、42600-manual
- 1.2. Class and Type of the coupling device(s): A50-X, 42600
- 1.3. Maximum D-value ⁽¹⁾: 12.5 kN
- 1.4. Maximum vertical load S at the coupling point ⁽¹⁾: 200 kg
- 1.5. Maximum load at the fifth wheel coupling ⁽¹⁾: N/A tonnes
- 1.6. Maximum V-value ⁽¹⁾: N/A kN
- 1.7. Vehicle manufacturer's maximum permissible vehicle mass: 2000 kg
- 1.8. Distribution of maximum permissible vehicle mass between the axles:
Not applicable.
- 1.9. Vehicle manufacturer' s maximum permissible towable trailer mass: 3500 kg
- 1.10. Vehicle manufacturer' s maximum permissible static mass on coupling ball: 200 kg
- 1.11. Maximum mass of the vehicle, with bodywork, in running order, including coolant, oils, fuel, tools and spare wheel (if supplied) but not including driver: 1200 kg

42600	Date : 05.12.2019 Ext. : 00
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- 1.12. Instructions for the attachment of the coupling device or component type to the vehicle and photographs or drawings of the mounting points (see Annex 2, Appendix 1) given by the vehicle manufacturer:

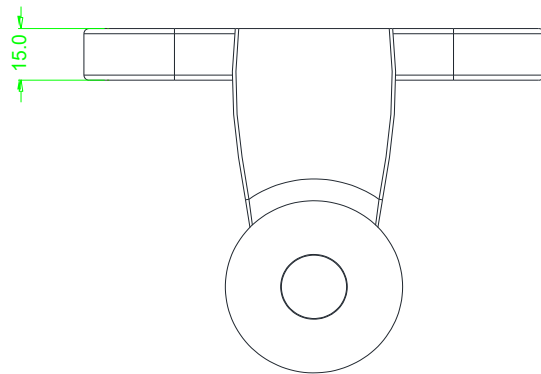
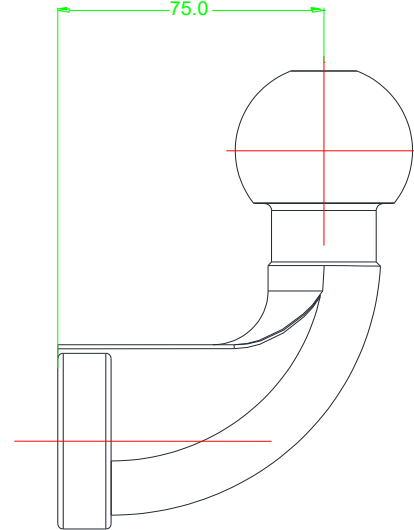
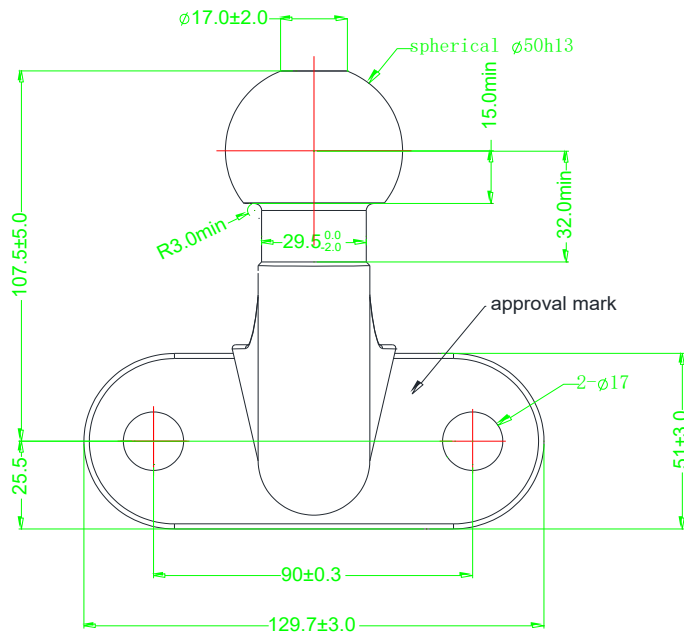
See the drawing of 42600-02, 42600-03, 42600-manual

- 1.13. Information on the fitting of any special reinforcing brackets or plates or spacing components necessary for the attachment of the coupling device or component (see Annex 2, Appendix 1):

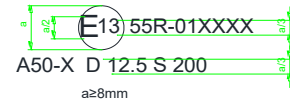
Not applicable.

42600

Date : 05.12.2019
Ext. : 00



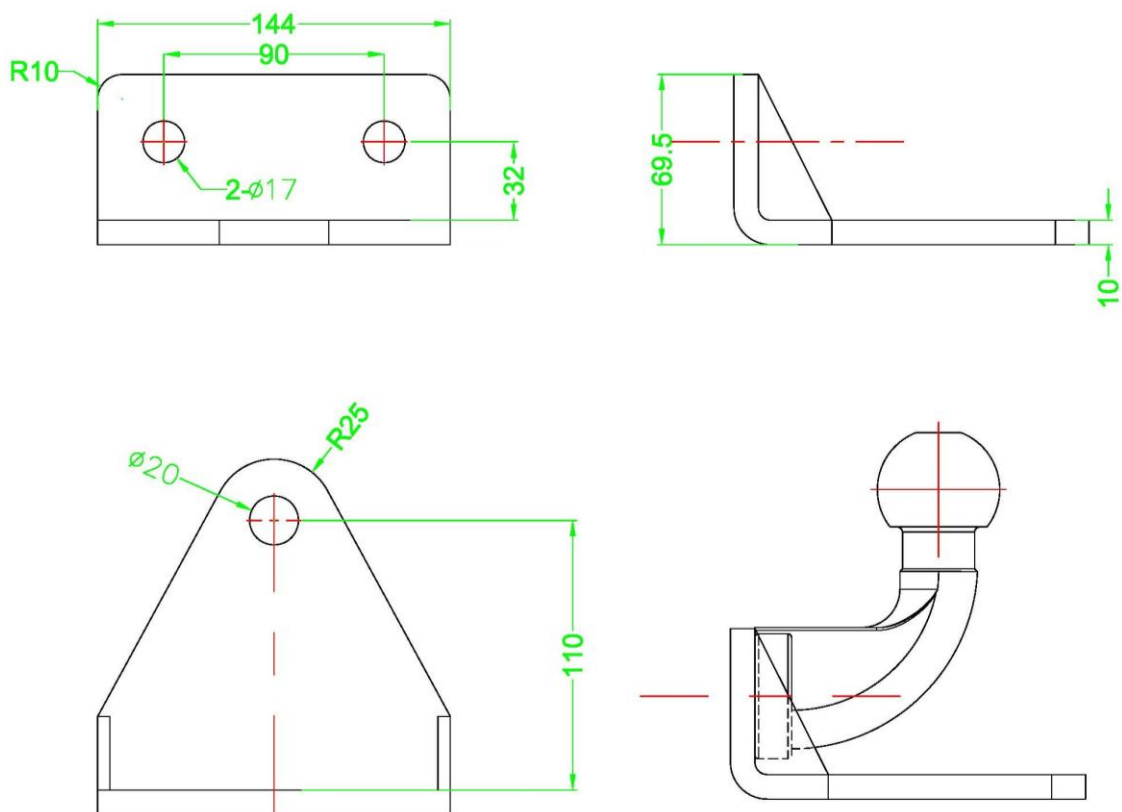
Approval mark:



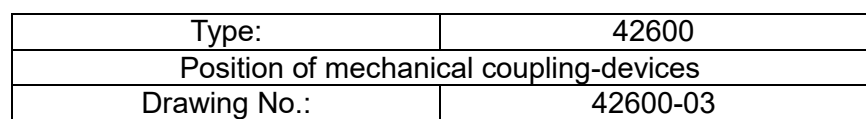
Type:	42600
Dimension of mechanical coupling-devices	
Drawing No.:	42600-01

42600

Date : 05.12.2019
Ext. : 00



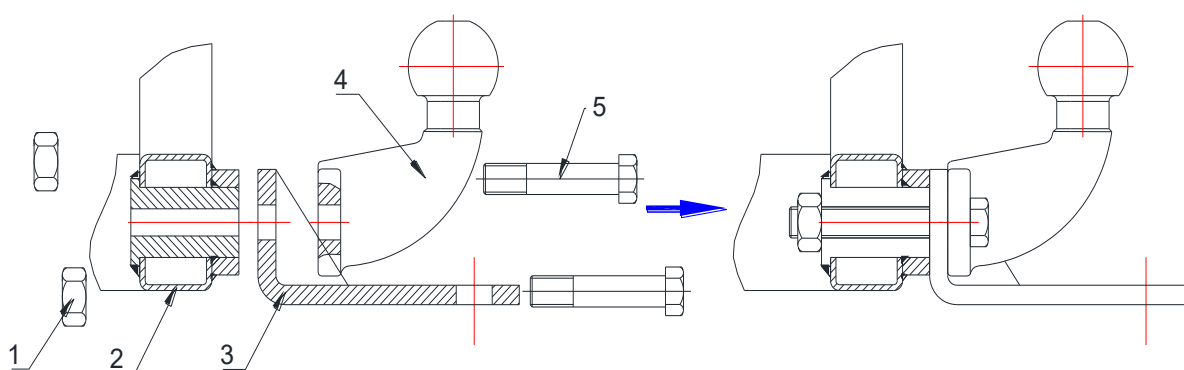
Type:	42600
Measurements for mounting the device mechanical coupling-devices	
Drawing No.:	42600-02



42600

Date : 05.12.2019

Ext. : 00



NO.	name	number	material	remark
1	Nut	2	C45E4	
2	chassis	1	-----	
3	Trailer safety bracket	1	Fe 360 A	
4	Coupling ball	1	41Cr4	
5	Bolt	2	C35E4 Quaility8.8 M16×95	tightening torque 213 N.m

Type:	42600
INDEX OF INSTALLATION AND OPERATING INSTRUCTIONS	
Drawing No.:	42600 -MANUAL