

COUNCIL DECISION EURASIAN ECONOMIC COMMISSION

20 July 2012 number 60

Moscow

**The adoption of technical regulations of the Customs Union "On the safety of  
Agricultural and Forestry Tractors and Trailers**

**Came into force on 19 August 2012 TRCU-031 農林業用トラクター類技術基準**

In accordance with Article 3 of the Treaty on the Eurasian Economic Commission dated November 18, 2011 Board of the Eurasian Economic Commission has decided:

1. To adopt the [technical regulations](#) of the Customs Union "On the safety of agricultural and forestry tractors and their trailers" (TR CU 031/2012) (supplied).

2. To establish that the technical regulations of the Customs Union "On the safety of agricultural and forestry tractors and their trailers" shall enter into force on 15 February 2015.

3. This Decision shall enter into force after 30 calendar days from the date of its official publication.

**Members of the Board of the Eurasian Economic Commission:**

**From the Republic  
Belarus**

**S.Rumas**

**From the Republic of  
Kazakhstan**

**K.Kelimbetov**

**From the Russian  
Federation**

**Igor Shuvalov**

adopted

Decision by the Council  
of the Eurasian Economic Commission  
dated July 20, 2012 number 60

## CU technical regulations

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### TR CU 031/2012

#### On the safety of agricultural and forestry tractors and their trailers

#### CONTENTS

[Introduction](#)

[Article 1](#) Scope

[Article 2](#) Definitions

[Article 3](#) Handling on the market

[Article 4](#) safety requirements

[Article 5](#) Ensuring compliance with safety requirements

[Article 6](#) Demonstration of compliance with

[Article 7](#) Marking a single mark of products n and the market states - members of the Customs Union

[Article 8](#) Safeguard clause

[Annex 1](#) list of components of tractors or trailers that are subject to the requirements of technical regulations of the Customs Union "On the safety of agricultural and forestry tractors and their trailers" (TR CU 031/2012)

[Appendix 2](#) Technical Form the descriptions provided by the manufacturer (person authorized by the manufacturer), the importer to confirm compliance with tractors and trailers of technical regulations of the customs requirements of Union "On the safety of agricultural and forestry tractors and their trailers" (TR CU 031/2012)

[Appendix 3](#) Classification of tractors and trailers of categories and types in accordance with the technical regulations of the Customs Union "On the safety of agricultural and forestry tractors and their trailers" (TR TS 031/2012)

[Annex 4](#) List of safety requirements for tractors and trailers in accordance with the technical Regulations of the Customs Union "On Security

of agricultural and forestry tractors and trailers to them "(TR CU 031/2012)

[Appendix 5](#) Security Requirements for tractors and trailers according to Appendix 4 to this technical regulation CU in accordance with the technical regulations CU" On the safety of agricultural and forestry tractors and trailers Therewith "(TR CU 031/2012)

[Appendix 6](#) plate tractor manufacturer classification and technically acceptable towed masses in accordance with the technical regulations CU" On security agriculture envy and forestry tractors and their trailers "(TR CU 031/2012)

## **INTRODUCTION**

1. The present technical regulations of the Customs Union is developed in accordance with [Agreement](#) then common principles and rules of technical regulation in the Republic of Belarus, the Republic of Kazakhstan and the Russian Federation dated November 18, 2010.

2. This technical regulation of the Customs Union is designed to establish the common customs territory of the Customs Union unified mandatory for application and performance requirements for wheeled and tracked agricultural and forestry tractors and their trailers, to ensure the free movement of wheeled and tracked agricultural and forestry tractors and trailers, put into circulation at the common customs territory of the customs Union.

3. If, in respect of tractors and trailers taken other technical regulations of the Customs Union, establish requirements for tractors and trailers, tractors and the trailers must meet the requirements of the technical regulations of the Customs Union, the action of which they are subject.

### **Article 1. Scope**

1. This technical regulation of the Customs Union applies to newly manufactured and imported wheeled and tracked agricultural and forestry tractors (hereafter - tractors) and their trailers (hereinafter - trailers), put into circulation at the common customs territory of the Customs Union, regardless of their country of origin.

This technical regulation of the Customs Union applies to tractors and trailers with a maximum design speed of not less than 6 km / h.

The requirements of these technical regulations also apply to newly manufactured and imported components of tractors and trailers (hereinafter - the component) that affect their safety and put into circulation at the common customs territory of the Customs Union, apart from the tractors and trailers, regardless of their country of origin. A list of components that are subject to requirements of this technical regulation CU is shown in [Appendix 1](#) to this technical regulation CU.

2. This technical regulation of the Customs Union does not apply to tractors and trailers, produced singly, individually as well as in the manner of individual creativity;

Tractors and trailers put into circulation within the common customs territory of the Customs Union before the entry into force of the present technical regulations of the Customs Union that were in use in service or have undergone repair of the common customs territory of the Customs Union.

3. This technical regulation of the Customs Union sets out requirements for tractors, trailers and their components to protect human life and health, property, environment and prevention of actions misleading consumers (users) about their purpose and security.

## **Article 2. DEFINITIONS** 用語定義

In this TRs CU used, the following terms and their definitions:

**ballast weights** - loads intended for installation on the front of the tractor for reloading and (or) the rear axle;

**tow bar** - Tractor construction element located in front of the tractor, provides attachment devices (e.g., bar or towing rope) for its towing;

**Commissioning** - documented event, locking readiness of the tractor or the trailer to the intended use;

**height tractors** - the distance measured vertically between the support surface and the tractor point located at the greatest distance from the reference surface, except for the antenna. When determining the height of the tractor shall be fitted with new tires having the greatest static radius specified by the manufacturer;

**tractor length** - the distance measured horizontally between the vertical planes perpendicular to the longitudinal axis of the tractor and passing through its end points, excluding all mirror actuating handle or the front side marker lights;

**Permissible towable mass** - the mass which a tractor can tow. Permissible towable mass may comprise: a mass of one or more towed trailers, the weight of agricultural or forest machines;

**The manufacturer** - a legal entity or natural person as an individual entrepreneur, carrying out on its behalf the production and sale of the tractor, the trailer or the component and is responsible for its compliance with the safety requirements of the technical regulations of the Customs Union;

**importer** - a resident of the State - a member of the Customs Union, which concluded with a non-state - a member of the Customs Union agreement on the transfer of foreign tractors, trailers or components, implements of tractors, trailers and components and is responsible for their compliance with the safety requirements of the technical regulations of the Customs Union;

**tractor category (trailer)** - Tractor characteristic (trailer) used to establish the requirements in the technical regulations of the Customs Union;

**component the** -device being an integral part of the tractor or trailer supplied at manufacture or assembly as replacement (replacement) part for a tractor or trailer, in operation, the certification of which may be separate from the tractor or the trailer;

**handling tractor, trailer or the component on the market** - the tractor transition processes trailer component or to a consumer (user) the common customs area CU which extends tractor, trailer or component after the completion of its manufacture;

**trailer** - tractor towed vehicle, designed to carry goods agricultural or forestry purposes. It also includes trailers, trailers, in which part of the vertical load transmitted to the towing tractor (semi);

**rolling radius of the tire** - the ratio of the longitudinal component of the translational speed of the wheel to its angular velocity;

**certification test** - Prototype test (sample) of the tractor, the trailer or the component, based on which it is concluded that under the tractor, trailer or component safety requirements of technical regulations of the Customs Union;

**tractor curb weight** - weight of the tractor in the operating condition, including protection device rollover coolant, lubricant, fuel (tank filled to not less than 90% of the rated capacity), the tool and the operator;

**mooring circuit** - diagram in accordance with which the connection of lifting equipment during transportation;

**the technically permissible towable mass** - the maximum weight specified by the manufacturer of the tractor, the tractor that can tow;

**technical description** - a document given in [Annex 2](#) to this technical regulation of the Customs Union, containing a list of information that must be specified by the manufacturer (person authorized by the manufacturer), the importer for certification;

**type tractor, trailer or component** - tractors, trailers or components having the same set of structural features set forth in the technical literature, manufactured by one manufacturer. Type can have different variants and versions;

**tractor** - wheeled or tracked motor vehicle, having at least two axles and a maximum speed of not less than 6 km / h, using mainly traction and designed mainly for towing, pushing, conveying or driving the working equipment used in the agricultural or forestry economy;

**drawbar (TAS)** - unit, connecting elements which are installed on the tractor and the trailer provide a mechanical connection therebetween;

**authorized by the manufacturer of the person** - legal or natural person registered in the established state order - a member of the Customs Union as defined by the manufacturer on the basis of a contract with him for action on its behalf in conformity assessment and placement of the tractor, trailer or component within the common customs territory of the Customs Union, as well as for imposing liability for non-conformity of the tractor, the trailer or the component requirements of technical regulations of the Customs Union;

**width of the tractor** - distance measured horizontally between the vertical planes parallel to the longitudinal tractor axis and passing through its end points, excluding all mirror, turn indicators, front or rear side marker lamps, any parking lights, tire deformation caused by the weight of the tractor, retractable elements. Folding elements may include, for example, lifting steps.

### **Article 3. HANDLING THE MARKET**

1. Tractors, trailers and components are released into circulation on the market if they meet this technical regulation of the Customs Union, as well as other technical regulations of the Customs Union, the action of which they are subject, if they have passed the confirmation of conformity under [article 6](#) of the present technical regulation CU and in accordance with other technical regulations CU action which they are subject.

2. Tractors, trailers and components, which match the requirements of the present technical regulations of the Customs Union has not been confirmed, should not be labeled single sign of products on the market states - members of the Customs Union and are not allowed to be released into circulation in the market.

3. Tractors, trailers and components that are not marked with a single mark of market states - members of the Customs Union, are not allowed to release into circulation in the market.

#### **Article 4. Safety requirements**

1. The construction of tractors and trailers must ensure safety at all stages of the life cycle.

2. Classification by categories and types of tractors and trailers is shown in [Annex 3](#) to this technical regulation of the Customs Union.

3. For the safety requirements for tractors categories T1, T2, T3, T5, C (excluding C4) and trailers R category, as well as standards and UNECE Regulation establishing safety requirements and methods of their control is shown in Table 4.1 [Annex 4](#) to this technical regulation of the Customs Union.

4. The list of safety requirements for special-purpose tractors T4 categories C4 and UNECE standards and rules establishing safety requirements and methods of control are listed in Table 4.2 [of Annex 4](#) to this technical regulation of the Customs Union.

5. Safety Requirements for Tractors and trailers, in accordance with [Appendix 4](#) to this technical regulation of the Customs Union, are listed in [Annex 5](#) of this technical regulation of the Customs Union.

#### **Article 5. Ensuring compliance with safety requirements**

1. Compliance with tractors and trailers this technical regulation of the Customs Union is provided by the implementation of its requirements directly and compliance standards and UNECE Regulations, as well as the requirements set out in [Annexes 4](#) and [5](#) to this technical regulation of the Customs Union.

Components compliance with the technical regulations of the Customs Union is provided by the implementation of its requirements directly and compliance standards and the UNECE Regulations listed in [Annex 1](#) to this technical regulation of the Customs Union.

2. Methods for monitoring of tractors and trailers needed for assessment (confirmation) of compliance are set out in the UNECE standards and regulations listed in [Appendix 4](#) to this technical regulation of the Customs Union.

Component control methods necessary to implement the assessment (confirmation) of compliance, established in the standards and the UNECE Regulations listed in [Annex 1](#) to this technical regulation of the Customs Union.

## **Article 6: Confirmation of compliance**

1. Before the release into circulation in the market, tractors, trailers or components should receive a confirmation of compliance with the safety requirements of this technical regulation of the Customs Union.

Confirmation of conformity carried out by the schemes in accordance with [the Regulation](#) on the application of standard assessment schemes (confirmation) of conformity in the technical regulations of the Customs Union, approved by the Commission of the Customs Union (hereinafter - the Commission).

Classification of tractors and trailers of categories and types to verify compliance with the objectives given in [Annex 3](#) to this technical regulation of the Customs Union.

Components, conformity assessment which is carried out separately, are given in [Appendix 1](#) to this technical regulation of the Customs Union.

If the manufacturer of tractors and trailers is a manufacturer of components supplied only to its own assembly line, confirmation of compliance with the components indicated in [Annex 1](#) to this technical regulation of the Customs Union, carried out on the basis of the test report issued by an accredited testing laboratory (center) included in the Unified Register of bodies certification and testing laboratories (centers) of the Customs Union, or certificates of conformity.

Certification testing of tractors and trailers only carried out in the presence of positive test results in accordance with paragraph 5 [of paragraph 1 of](#) this Article or certificates of conformity for components listed in [Annex 1](#) to this technical regulation of the Customs Union.

2. tractors, trailers or components subject conformity certification form (scheme 1c, 3c, 4c).

3. Certification tractors, trailers or components, mass-produced, is carried out according to the scheme 1c. Tractors, trailers or components for the certification is the manufacturer (person authorized by the manufacturer).

Certification party tractors, trailers or components carried on the circuit 3c, a single product - the scheme 4c. Party tractors, trailers and components (single product) manufactured within the common customs territory of the Customs Union, is the manufacturer (authorized by the manufacturer of the face), the party of tractors, trailers and components (single product), imported into the single customs territory of the Customs Union, is the importer or manufacturer (person authorized by the manufacturer).

4. Certification of tractors, trailers or components carried out by accredited certification body (conformity assessment (confirmation) of conformity), included in the Unified Register of certification bodies and testing laboratories (centers) of the Customs Union.

Testing for certification purposes carried out by accredited testing laboratory (center) included in the Unified Register of certification bodies and testing laboratories (centers) of the Customs Union.

5. When certification tractors, trailers or components (circuit 1c, 3c, 4c):

5.1. The manufacturer (authorized by the manufacturer of the face), an importer provides the certification body (conformity assessment (confirmation) of conformity) set of documents for tractors, trailers and components, confirming the compliance of tractors, trailers and components, safety requirements of this technical regulation of the Customs Union, which includes:

technical description of the tractor or trailer. The technical description shall contain all information necessary to process the application for a certificate of conformity. Form of technical descriptions given in [Annex 2](#) to this technical regulation of the Customs Union. The technical description shall also include a list of components that have certificates of conformity with the indication of the numbers of these certificates, communications relating to the type-approval of the UNECE Regulations;

basic design documents relating to the component (technical specifications, technical description, the general form of the drawings, specification) (for components certification);

operational documents;

a list of characteristics or parameters of the tractor or trailer from the list of security requirements for the tractor and trailer, shown in Tables 4.1 and 4.2 [of Annex 4](#) to this technical regulation of the Customs Union;

. contract (supply contract) or shipping documentation (for a batch of tractors, trailers and components (single product) (3c circuit 4c)

as an evidential material may be:

issued by an accredited testing laboratory (center) test reports for individual requirements of the tables 4.1 and 4.2 [of annex 4](#) to this technical regulation of the Customs Union;

communications relating to the type-approval of the UNECE

Regulations;.5.2 The manufacturer shall take all necessary measures, to the production process it was stable and provided a requirement hereof CU;

5.3 certification authority (assessment

(confirmation)):5.3.1 next sample (s) selection;

5.3.2 conducts. identification tractors, trailers or components through the establishment of the identity of their performance characteristics set out in [section 1](#) of this technical regulation CU provisions set [article 4](#)NAstoyan technical regulations of the Customs Union, and the documents listed in [paragraph 5.1](#) of paragraph 5 of this Article;

5.3.3. sends to the test in an accredited testing laboratory (center) sample (s) of the tractor, the trailer or the component for compliance with the safety requirements of this technical regulation of the Customs Union;

5.3.4. analyzes the state of production (scheme 1c).

If the manufacturer of certified quality management system of production or development and manufacture of tractors, trailers or component evaluates the possibility of the system to provide stable release certifiable tractors, trailers or components corresponding requirements hereof CU;

5.3.5. summarizes the results of the sample (samples) Test tractor, trailer or component analysis and the production condition;

5.3.6. issue a certificate of conformity unified form approved by the Commission, attaching to a certificate of conformity, which provides technical descriptions tractors or trailers. The certificate of conformity for tractors, trailers or components manufactured as standard - 5 years, for a party of tractors, trailers and components (single product) expiration date is not set, the specified characteristics of the batch of products in the certificate of conformity - the identification numbers, information on the contract (supply contract) or others;

5.4. manufacturer (manufacturer's authorized person), importer:

5.4.1. causing a single sign of products on the market states - members of the Customs Union;

5.4.2. forming after the completion of conformity set of documents for tractors, trailers and components, which includes:

the documents specified in [sub-paragraph 5.1](#) of paragraph 5 of this Article;

protocol (s) testing;

Results of analysis of production conditions;

certificate of conformity;

5.5. Certification Authority (evaluation (confirmation)) conducts inspection control of certified tractors, trailers or components through the test sample (samples) in an accredited test laboratory (center) and (or) analysis of production conditions (Scheme 1c).

6. The set of documents for tractors, trailers and components shall be kept on the territory of states - members of the Customs Union:

mass-produced tractors, trailers and components - from the manufacturer (manufacturer's authorized person) for at least 10 years from the date of withdrawal (termination) of production these tractors, trailers or components;

Party tractors, trailers and components - from the manufacturer (manufacturer's authorized person), the importer for at least 10 years from the date of implementation of the last product from the lot.

7. The set of documents must:

be carried out in Russian and in the state (s) language (s) of the State - a member of the Customs Union with the appropriate requirements of the law (s) of the State - a member (states - members) of the Customs Union;

provided by bodies of state supervision upon their request.

#### **Article 7 LABELING single sign of products on the market of the - members of the customs union**

1. Tractors, trailers and components corresponding to the safety requirements of this technical regulation of the Customs Union and the recent demonstration of compliance in accordance with [Article 6](#) of the present technical regulations of the Customs Union shall be marked with a single reference mark product on the market states - members of the Customs Union.

2. Marking a single sign of products on the market states - members of the Customs Union is carried out before the release of the tractor, trailer or component into circulation in the market.

3. A single sign of products on the market states - members of the Customs Union is applied to each tractor and trailer or the manufacturer's plate (type plate) in any way, providing crisp and clear images throughout the entire service life of a tractor and trailer, as well as given in the annexed operational documents.

4. When marking components single sign of products on the market states - members of the Customs Union should be applied directly to each component (if technically possible) and on the packaging, as well as given in the annexed operational documents.

Labeling of components approval marks equivalent to marking a single sign of products on the market states - members of the Customs Union. If there are markings on components approval mark marking components such single sign of products on the market states - members of the Customs Union is not required.

5. Tractors, trailers or components labeled single sign of products on the market states - members of the Customs Union, if they meet the requirements of technical regulations of the Customs Union, the action of which they are subject.

**Article 8 Safeguard clause**

1. Member States - members of the Customs Union are obliged to take all measures to restrict, ban the release into circulation of tractors, trailers and components of the common customs territory of the Customs Union, as well as the withdrawal from the market of tractors, trailers and components that do not meet safety requirements this technical regulation CU.

**Appendix 1 to the technical regulations of the Customs Union  
"On the safety of agricultural and forestry tractors and their trailers"  
(TR CU 031/2012)**

**list of the components of tractors and trailers that are subject to the requirements of technical regulations of the Customs Union "On the safety of agricultural and forestry tractors and their trailers him "(TR CU 031/2012)**

Table 1.1

Tractor trailer component or	element of this technical regulation CU or designation or standard ECE Regulations establishing the requirements to the component of the tractor or trailer	or Designation Standard ECE Regulations establishing control methods
1	2	3
Mechanical traction device	STB2028-2010	STB2028- 2010
audible alarm devices <sup>1)</sup>	UNECE Regulations № 28 (00)	UNECE Regulations № 28 (00)
Glass <sup>1)</sup>	Regulation UNECE № 43 (00) / Revision 2	UNECE Regulations № 43 (00) / Revision 2

Reflective devices <sup>1)</sup>	ECE Regulation UN № 3 (02) / Revision 3	UNECE Regulations № 3 (02) / Revision 3
rear lights and brake signals <sup>1)</sup>	Regulation UNECE № 7 (02) / Revision 4	UNECE Regulations № 7 (02) / Revision 4
blinkers <sup>1)</sup>	Regulation UNECE № 6 (01) / Revision 4	UNECE Regulations № 6 (01) / Revision 4
Adaptations for illumination of the rear license plate <sup>1)</sup>	UNECE Regulations № 4 (00) / Revision 2	UNECE Regulations № 4 (00) / Revision 2
headlamps <sup>1)</sup>	UNECE Regulations № 1- Revision 4 UNECE Regulation number 8- Revision 4 UNECE Regulation number 20 (03) / 3 Review of UNECE Regulations № 98 (00) / 1 Revision UNECE Regulations № 112 (00) / 1 Revision	UNECE Regulations № 1- Revision 4 UNECE Regulation number8- Revision 4 the UNECE Regulations № 20 (03) /Revision 3 UNECE Regulations № 98 (00) / Revision 1 UNECE Regulations № 112 (00) / 1 Revision
beam headlamps <sup>1)</sup>	UNECE Regulations № 1- Revision 4 UNECE Regulation number 8- Revision 4 UNECE Regulation number 20 (03) / 3 Review of	UNECE Regulations № 1- Revision 4 UNECE Regulation number8- Revision 4 the UNECE Regulations № 20 (03) / Revision 3

	UNECE Regulations № 98 (00) / 1 Revision  UNECE Regulations № 112 (00) / Revision 1	UNECE Regulations № 98 (00) / Revision 1  UNECE Regulations № 112 (00) / Revision 1
Fog <sup>1)</sup>	UNECE Regulations № 19 (03) / Revision 5	UNECE Regulations № 19 (03) / Revision 5
Rear fog lights <sup>1)</sup>	UNECE Regulations № 38 (00) / Revision 2	UNECE Regulations № 38 (00) / Revision 2
reversing lamps <sup>1)</sup>	UNECE Regulations № 23 (00) / Revision 3	UNECE Regulations № 23 (00) / revision 3
parking lamps <sup>1)</sup>	Regulation UNECE № 77 (00) / revision 1	UNECE Regulations № 77 (00) / revision 1
Tires	UNECE Regulations № 106 (00)	UNECE Regulations № 106 (00)
Engine	<a href="#">Point 14</a> in annex 5 to the present technical Regulation CU UNECE Regulations № 24 (03) / Revision 2	UNECE Regulations № 96 (02) / Revision 1  UNECE Regulations № 49 (04) / Revision 3 <sup>2)</sup>  UNECE Regulations № 24 (03) / revision 2
seat	GOST 20062-96	GOST 20062-96
devices limit speed <sup>1)</sup>	UNECE Regulations № 89	UNECE Regulations № 89
Tachometers <sup>1)</sup>	UNECE Regulations № 39 (00) / 1 Revision	UNECE Regulations № 39 (00) / 1 Revision

adjustable mirrors type <sup>1)</sup>	UNECE Regulation number 46 (02) / 3 Review of	the UNECE Regulations № 46 (02) / Revision 3
Seatbelts <sup>2)</sup>	UNECE Regulation number 16 (04) / 5 Review of GOST 26879-88	UNECE Regulation number 16 (04) / 5 Review GOST 26879-88
Cab	<a href="#">item 12.1</a> of Annex 5 of this technical regulation of the Customs Union	of STB ISO 8082-2004 GOST R ISO 5700-2008 GOST R ISO 3463-2008 GOST R ISO 3449-2009 GOST R ISO 8083-2008 GOST R ISO 8084-2005
<p><sup>1)</sup>If you have a certificate of conformity for the component issued by an accredited certification body (conformity assessment (confirmation) of conformity), included in the Unified Register of certification bodies and testing laboratories (centers) of the Customs Union on the basis of a communication concerning the type-approval of UNECE Regulations confirmation wo testify said component under <a href="#">Article 6</a> of the present technical regulation CU is not performed.</p> <p><sup>2)</sup>for spark-ignition engines fueled by natural gas or liquefied petroleum gas.</p>		

**Appendix 2 to the technical regulations of the Customs Union  
"On the safety of agricultural and forestry tractors and trailers"  
(TR CU 031/2012)**

**forms the technical descriptions provided by the manufacturer (person authorized by the manufacturer), the importer to confirm compliance with tractors and trailers of technical regulations of the Customs requirements Union "On the safety of agricultural and forestry tractors and their trailers" (TR CU 031/2012)**

1. a complete list of the main characteristics of  
the full list of basic Characteristics filled in if there are no more of one or more certificates of compliance, communications relating to the type-approval of the UNECE Regulations to meet individual requirements.

0 General Information

- 0.1 Factory brand (the registered name of the manufacturer) .....
- 0.2 Type (specify the options and version if necessary) .....
- 0.2.1 Brand (if necessary) .....
- 0.3 Specifications for identifying the type of the tractor (trailer) (if any) .....
- 0.3.1 manufacturer's plate (location and method of installation) .....
- 0.3.2 chassis number (place of application) .....
- 0.4 category tractor (trailer) .....
- 0.5 Name and address of the manufacturer .....
- 0.6 Location and method of installation of registration plates and inscriptions (photographs or drawings) .....
- 0.7 For components:  
the place and method of applying a single sign of products on the market states - members of the Customs Union (approval mark) .....
- 0.8 Address assembly plant .....
- 1 main structural characteristics of the tractor (trailer)  
(tractor pictures should be applied (trailer) [3] / 4 front view and [3] / 4 adjustable and drawing with the said dimensions of the tractor (trailer)
- 1.1 Number of axles and wheels .....
- 1.1.1 The number and arrangement of wheels with twin tires (if necessary) .....
- 1.1.2 number and position of steered axles .....
- 1.1.3 Top axes (quantity, location and drive) .....
- 1.1.4 Brake axis (quantity, location) .....
- 1.2 Position and placing the drive motor .....
- 1.3 The steering wheel: right / left / middle .....

1.4 User Location reversible: yes / no

1.5 Chassis: frame block / spinal type / spar / hinge / another Constar  
ton .....

2 Weight and size (if necessary lead link

fuel, tool and operator): maximum.....kg

minimum .....kg

2.1.1.1 Distribution curb weight of the axes ... kg

for semitrailers or trailers with the central axis - static vertical load at the point hitch

TSU ..... H .....

2.2 Maximum weight, said manufacturer ..... kg

2.2.1 Technically permissible maximum mass of the tractor (trailer) depending on the  
type of

tires.....kg

2.2.2 maximum mass distribution along the axes .....kg

for semitrailers or trailers with the central axis - static vertical load at the point hitch

TAS ..... H .....

2.2.3 Limit values disintegrations definiteness of the maximum mass between the axles  
in percentage .....

for semitrailers or trailers with the central axis - static vertical load at the point hitch

TAS ..... H

Mass and bus

Axis number	Tires (size)	Load capacity, H	technically permissible maximum axle weight, kg	technically permissible static vertical load at the point hitch TAS, N
1				
2				
3				

2.2.4 Payload .....

2.3 Weight of ballast (total mass, material, number of parts) .....	..... ..
2.3.1. Distribution of ballast mass along the axes .....	.....
2.4 Technically permissible towed mass (s) (depending on type of connection). .....	..... kg
2.4.1. The weight of the trailer without brakes ... ..	..... kg
2.4.2 Trailer weight with independent braking .... ..	..... kg
2.4.3 Weight of the trailer with inertial braking .... ..	..... kg
2.4.4. Trailer weight with hydraulic or pneumatic brake drive .....	..... kg
2.4.5 Technically permissible total mass (s) of tractor composition and trailer (depending on the design of the trailer braking system) .....	..... kg
2.4.6. The position of the hitch point	
2.4.6.1. The height of the hooking point above the support surface:	
2.4.6.1.1. The maximum .....	..... mm
2.4.6.1.2. The minimum. .... ..	..... mm
2.4.6.2 Distance from the vertical center plane of the rear axle:	
2.4.6.2.1. The maximum .....	..... mm
2.4.6.2.2. The minimum .... ..	..... mm
2.4.6.3 Technically permissible static vertical load at the coupling point TSU:	
2.4.6.3.1. Tractors .....	..... H
2.4.6.3.2 a semi-trailer or trailer with a central axle .....	..... H
2.5 Base	
2.5.1 Semi-trailer:	
2.5.1.1. The distance between the hitch axis and the first rear axle .....	..... mm
2.5.1.2. The distance between the coupling point of the towing vehicle and the trailing point of the semitrailer .....	..... mm
2.6. The maximum and minimum gauge size on each axis between the middle planes of one or two wheels manufacturer) .....	..... mm
2.7 Range of dimensions of the tractor (trailer) (overall and with equipment for participation in road traffic)	
2.7.1. The chassis assembly	

- 2.7.1.1. Length ..... mm
  - 2.7.1.1.1. The maximum permissible length of the tractor (trailer) ..... .mm
  - 2.7.1.1.2. The minimum permissible length of the tractor (trailer) ..... .mm
- 2.7.1.2 Width ..... mm
  - 2.7.1.2.1. The maximum permissible tractor (trailer) width ..... mm
  - 2.7.1.2.2. The minimum permissible tractor (trailer) width ..... .mm
- 2.7.1.3. Height (in working position) (with height adjustable travel parts with normal movement) ..... mm
- 2.7.1.4 Front overhang ..... mm
  - 2.7.1.4.1. The angle of the front overhang: ..... degrees
- 2.7.1.5 Rear overhang ..... mm
  - 2.7.1.5.1. The angle of the rear overhang: .....
  - 2.7.1.5.2. The maximum and minimum allowable overhang of the hooking point ..... .mm
- 2.7.1.6. Ground clearance:
  - 2.7.1.6.1 between the axes ..... mm
  - 2.7.1.6.2. Under the front axles ..... mm
  - 2.7.1.6.3. Under the rear axles ..... .mm
- 2.7.1.7. The maximum permissible positions of the center of gravity of the structure and (or) internal equipment, and (or) equipment, and (or) payload ..... ..
- 2.7.2. The overall dimensions of the tractor, including the trailer coupling
  - 2.7.2.1. Length for use in road traffic:
    - the maximum ..... .mm
    - the minimum. .... .mm
  - 2.7.2.2 Width for use in road traffic:
    - the maximum ..... .mm
    - the minimum. .... .mm
  - 2.7.2.3. Height for use in road traffic:
    - the maximum ..... .mm
    - the minimum. .... .mm
  - 2.7.2.4 Front overhang:
    - maximum ..... .mm
    - the minimum. .... .mm
  - 2.7.2.5. Rear overhang:

maximum ..... .mm  
 the minimum. .... .mm  
 2.7.2.6. Ground clearance:  
 maximum ..... .mm  
 the minimum. .... .mm

### 3 Engine

#### 3.1 General Information

##### 3.1.1. Main engine / engine type (manufacturer's name)

..... ..

##### 3.1.2 Type and trade name of the main engine and (if necessary) engine family .....

##### 3.1.3 Characteristics for type identification (if available on engines), type installations .....

##### 3.1.3.1. Location and location of engine identification number .....

##### 3.1.3.2 Place and method of applying the certificate of conformity number .....

##### 3.1.4. Name and address of the manufacturer

##### 3.1.5. The address of the assembly enterprise .....

##### 3.1.6 Principle of operation:

forced ignition / compression ignition

direct injection / injection into the pre- chamber

two-stroke engine / four-stroke engine

##### 3.1.7 Fuel:

diesel / gasoline / liquefied petroleum gas / other fuel

Engine family type

#### 3.2 Main characteristics of the family's basic engine

##### 3.2.1. Characteristics of a compression-ignition engine

##### 3.2.1.1. Manufacturer .....

##### 3.2.1.2. The manufacturer's designation of the sample .....

##### 3.2.1.3. Engine: two-stroke / four strokes

##### 3.2.1.4. The diameter of the cylinder: ..... mm

##### 3.2.1.5. Piston stroke: ..... mm

##### 3.2.1.6. Number and arrangement of cylinders .....

##### 3.2.1.7. Working volume ..... cm<sup>3</sup>

##### 3.2.1.8. Rated speed ..... Min<sup>-1</sup>

- 3.2.1.9. The speed at the maximum of torque ..... min -1
- 3.2.1.10 Compression ratio .....
- 3.2.1.11. Description of the combustion method. ....
- 3.2.1.12 Drawings of the combustion chamber and the bottom of the piston. ....
- 3.2.1.13 The minimum cross-section of the inlet and outlet channels ..... .mm
- 3.2.1.14 Cooling system
  - 3.2.1.14.1. Liquid cooling
    - 3.2.1.14.1.1. Type of coolant .....
    - 3.2.1.14.1.2. Coolant pump (s): available / not available
    - 3.2.1.14.1.3. Specifications or brand, or type (for necessity) .....
    - 3.2.1.14.1.4 Drive gear ratio (if necessary) .....
  - 3.2.1.14.2. Air cooling
    - 3.2.1.14.2.1. Fan: available / not available
    - 3.2.1.14.2.2. Specifications or brand, or type (for necessity) .....
    - 3.2.1.14.2.3 Drive gear ratio (if necessary) .....
- 3.2.1.15. The temperature is allowed by the manufacturer
  - 3.2.1.15.1. Liquid cooling:
    - engine ..... To ... To
  - 3.2.1.15.2 Air cooling: reference point .....
    - The maximum temperature at the starting point .... K
  - 3.2.1.15.3 Maximum charge air temperature at the outlet intercooler (if available). ..... K
  - 3.2.1.15.4 Maximum exhaust gas temperature at the outlet of the outlet collector .... ..
  - 3.2.1.15.5 Engine oil temperature:
    - minimum ..... To
    - the maximum ..... TO
- 3.2.1.16 Air blower: available / not available
  - 3.2.1.16.1 Factory mark .....
  - 3.2.1.16.2 Type .....
  - 3.2.1.16.3. System description (for example, maximum exhaust pressure of the exhaust valve (if equipped))
- 3.2.1.17. Intake manifold: maximum permissible inlet vacuum at

nominal speed and full load: ..... kPa

3.2.1.18. Exhaust system: maximum permissible counter pressure in the exhaust system at the nominal number revolutions and full load ..... kPa

3.2.2. Additional devices that limit emissions of harmful substances (if available and not listed elsewhere)

Description and / or drawing (s) .....

3.2.3. The fuel system

3.2.3.1. The fuel pumps. ....

Pressure: ..... kPa or diagram with characteristics .....

3.2.3.2. Injection system

3.2.3.2.1. The pump

3.2.3.2.1.1 Factory stamp (s) .....

3.2.3.2.1.2. Type (s) .....

3.2.3.2.1.3. Productivity: ..... mm<sup>3</sup> per clock cycle at a frequency motor rotation: ..... min<sup>-1</sup> (rated speed)

..... min<sup>-1</sup>

full-fledged characteristics .....

Indicate the method used: on the engine

3.2.3.2.1.4. Advancing the injection of fuel

3.2.3.2.1.4.1 Injection timing curve .....

3.2.3.2.1.4.2. The angle of advance of fuel injection .....

3.2.3.2.2. The fuel injection line

3.2.3.2.2.1. Length: ..... mm

3.2.3.2.2.2 Inside diameter: ..... mm

3.2.3.2.3. The nozzle (s)

3.2.3.2.3.1 Factory mark (s) .....

3.2.3.2.3.2 Type (s) .....

3.2.3.2.3.3. The initial injection pressures or diagram of pressure change .....

3.2.3.2.4 Regulator

3.2.3.2.4.1 Factory mark (s) .....

3.2.3.2.4.2 Type (s) .....

3.2.3.2.4.3. The speed at which the fuel supply ceases at full power load: .....min<sup>-1</sup>

- 3.2.3.2.4.4. Maximum speed without load: ..... min<sup>-1</sup>
- 3.2.3.2.4.5. Idling speed: ..... min<sup>-1</sup>
- 3.2.3.3 Cold start system
  - 3.2.3.3.1 Factory (s) mark (s) .....
  - 3.2.3.3.2 Type (s) .....
  - 3.2.3.3.3. Description. ....
- 3.2.4. Gas distribution
  - 3.2.4.1 Maximum valve travel, opening and closing angles is determined by relative to the top dead center  
.....
  - 3.2.4.2 Starting or adjusting clearances .....
  - 3.2.4.3. The variable valve timing system (if applicable and where: on admission and / or release) .....
  - 3.2.4.3.1. Type: permanent or plug-in
  - 3.2.4.3.2 The angle of the valve opening phase change ... ..
- 3.2.5 Channel construction
  - 3.2.5.1 Location, dimensions, quantity .....
- 3.2.6. Electronic control functions (if the motor has functions electronic control, it is necessary to indicate their technical characteristics)
  - 3.2.6.1. Manufacturer's mark. ....
  - 3.2.6.2 Type. ....
  - 3.2.6.3 Node number. ....
  - 3.2.6.4 Location of the electronic control unit .....
  - 3.2.6.4.1 Controlled parameters ....
  - 3.2.6.4.2 Controlled parameters. ....
- 3.3. A family of compression ignition engines
  - Main characteristics of the family's basic engine
  - 3.3.1 List of motor family types
    - 3.3.1.1. The name of the engine family .....
    - 3.3.1.2. Technical characteristics of the engine

			Basic
Engine Type			
number of cylinders			

Rated Speed min <sup>-1</sup>			
Fuel supply amount per cycle at the rated speed, mm <sup>3</sup>			
Net power, kW			
Rotational speed at maximum torque, min <sup>-1</sup>			
Fuel volume per stroke at a speed corresponding to maximum torque, mm <sup>3</sup>			
Maximum torque, Nm			
The minimum stable idling speed, min <sup>-1</sup>			
Cylinder capacity (in percentage of the baseline engine)			100

### 3.4. Engine type within the engine family

#### Main characteristics of the engine of the family

#### 3.4.1. Characteristics of a compression ignition engine

3.4.1.1. Manufacturer .....

3.4.1.2. The manufacturer's designation of the sample .....

3.4.1.3. Engine: two-stroke / four strokes

3.4.1.4. The diameter of the cylinder: ..... mm

3.4.1.5. Piston stroke: ..... mm

3.4.1.6. Number and arrangement of cylinders .....

3.4.1.7. Working volume. ....cm<sup>3</sup>

3.4.1.8. Rated speed ..... min<sup>-1</sup>

3.4.1.9. The speed at the maximum of torque ..... min<sup>-1</sup>

3.4.1.10 Compression ratio .....

3.4.1.11. Description of the combustion method .....

3.4.1.12 Drawings of the combustion chamber and the bottom of the piston .....

3.4.1.13 Minimum cross-section of the intake and exhaust ducts ... ..

3.4.1.14. Cooling system

- 3.4.1.14.1. Liquid cooling
  - 3.4.1.14.1.1. Type of coolant .....
  - 3.4.1.14.1.2. The coolant pump (s): available / not available
  - 3.4.1.14.1.3. Specifications or brand, or type (if necessary)
    - ..... ..
  - 3.4.1.14.1.4 Drive ratio (if necessary) .....
- 3.4.1.14.2. Air cooling
  - 3.4.1.14.2.1. Fan: available / not available
  - 3.4.1.14.2.2 Specifications or brand, or type (if necessary) .....
  - 3.4.1.14.2.3 Drive gear ratio (if necessary) .....
- 3.4.1.15. Temperature allowed by the manufacturer .....
- 3.4.1.15.1. Liquid cooling:
  - of the engine: ..... K
- 3.4.1.15.2 Air cooling: starting point .....
- Maximum temperature at the starting point ..... K
- 3.4.1.15.3 Maximum charge air temperature at the outlet
  - Intermediate cooler (if available) ..... K
- 3.4.1.15.4 Maximum exhaust gas temperature at the outlet of the outlet collector ..... K
- 3.4.1.15.5 Engine oil temperature:
  - minimum ..... To
  - the maximum ..... K
- 3.4.1.16 Air blower: available / not available
  - 3.4.1.16.1 Factory mark .....
  - 3.4.1.16.2 Type .....
  - 3.4.1.16.3. The description of the system (for example, the maximum pressure of the exhaust valve of boost (if available) .....
- 3.4.1.17. Intake manifold: maximum permissible inlet vacuum at rated speed and full load ..... kPa
- 3.4.1.18. Exhaust system: maximum permissible counter pressure in the exhaust system at nominal speed and full load: ..... kPa
- 3.4.2. Additional devices that limit emissions of harmful substances (if available and not listed elsewhere)

Description and (or) drawing (s) .....

3.4.3. The fuel system

3.4.3.1. The fuel pumps

Pressure: ..... kPa or diagram with characteristics .....

3.4.3.2. Injection system

3.4.3.2.1. The pump

3.4.3.2.1.1 Factory mark (s) .....

3.4.3.2.1.2 Type (s) .....

3.4.3.2.1.3. Productivity ..... mm

3 for one clock cycle at a frequency

motor rotation ..... min<sup>-1</sup> (rated speed)

..... min<sup>-1</sup>

full-fledged characteristics .....

Indicate the method used: on the engine

3.4.3.2.1.4. Advancing the injection of fuel

3.4.3.2.1.4.1. Injection timing curve .....

3.4.3.2.1.4.2. The timing of the injection .....

**3.4.3.2.2. The fuel injection line**

3.4.3.2.2.1 Length: ..... mm

3.4.3.2.2.2. Inside diameter: ..... mm

3.4.3.2.3. The nozzle (s)

3.4.3.2.3.1 Factory mark (s) .....

3.4.3.2.3.2 Type (s) .....

3.4.3.2.3.3. Initial injection pressure ..... KPa or

diagram of pressure change .....

**3.4.3.2.4 Regulator**

3.4.3.2.4.1 Factory mark (s) .....

3.4.3.2.4.2 Type (s) .....

3.4.3.2.4.3. The speed at which the fuel supply ceases at full power

load ..... min<sup>-1</sup>

3.4.3.2.4.4. Maximum speed without load ..... min<sup>-1</sup>

3.4.3.2.4.5. Idling speed ..... min<sup>-1</sup>

3.4.4 Cold start system

3.4.4.1 Factory mark (s) .....

3.4.4.2 Type (s) .....

3.4.4.3. Description .....	..
3.4.5. Gas distribution	
3.4.5.1 Maximum valve travel, opening and closing angles determined by relative to the top dead center .....	.....
3.4.5.2 Starting or adjusting clearances .....	.....
3.4.5.3. The variable valve timing system (if applicable and where: on admission and / or release)	
3.4.5.3.1. Type: permanent or plug-in	
3.4.5.3.2. The angle of change of the valve.	
3.4.6 Channel construction	
3.4.6.1 Location, dimensions, number	
3.4.7 Electronic control functions (if the motor has functions electronic management, it is necessary to indicate their technical characteristics)	
3.4.7.1. The manufacturer's mark. ....	.....
3.4.7.2. Type .....	.....
3.4.7.3 Node number ....	.....
3.4.7.4 Location of the electronic control unit .....	.....
3.4.7.4.1 Controlled parameters	
3.4.7.4.2 Controlled parameters. ....	.....
3.5. Fuel tank (s)	
3.5.1. Quantity, volume, materials. ....	.....
3.5.2 Drawing, photograph or precise description with indication of the position of the tank (s)	
.....	.....
3.5.3. Spare fuel tank (s)	
3.5.3.1 Number, volume, materials ...	.....
3.5.3.2 A drawing, photograph or exact description showing the position of the tank (s)	
.....	.....
3.6. Rated motor power: ..... kW, at ..... min <sup>-1</sup> with a standard installation	
3.6.1 Optional: PTO shaft power (if equipped) at the nominal frequency (s) of rotation (s) .....	.....
3.7 The maximum torque: ..... N · m, with ..... min <sup>-1</sup>	
3.8. Other drive motors or motor combinations.	

3.9 The air filter

3.9.1. The model (s) ....

3.9.2 Type (s) .....

3.9.3. Average vacuum at maximum power: ..... kPa

3.10 Exhaust system

3.10.1 Description and schemes. ....

3.10.2. Model (s). ....

3.10.3 Type (s) .....

3.11 Electrical system

3.11.1

Nominal  
voltage ..... In,  
positive / negative  
earthing

3.11.2 Generator

3.11.2.1. Type .....

3.11.2.2. Rated power: ..... Why

4 Transmission

4.1 Transmission diagram .....

4.2 Type of transmission (mechanical, hydraulic, electrical, etc.)  
.....

4.2.1 Brief description of electrical / electronic devices (if available)  
.....

4.3 Moment of inertia of the engine flywheel .....

4.3.1 Additional moment of inertia, if there is no switching device .....

4.4. Type of clutch (if any). ....

4.4.1 Maximum torque conversion ... ..

4.5 Gearbox (type, clutch control, control method), with  
availability .....

4.6 Gear ratios (if any) with or without divider .....

the transmission	The gear ratio of gearbox	gear ratio of transfer case	gear ratio of the main transmission	total gear ratio
Maximum gear ratio of the gearbox <sup>1)</sup>				

1				
2				
3				
Minimum Transmission ratio <sup>1)</sup> Reverse				
1				
...				
<sup>1)</sup> Continuously Variable Transmission.				

- 4.6.1. Maximum tire dimensions on the leading axles .....
- 4.7 The maximum speed of the tractor in the highest gear  
(to present the calculation of the maximum speed): ..... km / h
- 4.7.1. Measured maximum speed: ..... km / h
- 4.8 The length of the section of the path traversed in one of the driving wheels .....  
mm
- 4.9 Speed controller available / not available
- 4.9.1 Characteristics. ....
- 4.10 Speedometer, tachometer and running time counter (if available)
- 4.10.1 Speedometer (if equipped)
- 4.10.1.1 Principle of operation and description of the  
drive .....
- 4.10.1.2 Measuring device constant .....
- 4.10.1.3. Tolerance of the measured value.
- 4.10.1.4. The total gear ratio. ....
- 4.10.1.5 Drawing of a scale or other devices in the instrument panel. ....
- 4.10.1.6 Brief description of electrical / electronic devices .....
- 4.10.2. Tachometer and running time counter: available / not available
- 4.11. Differential lock: available / not available
- 4.12. PTO shaft (s) (speed and frequency ratio  
motor rotation (number, type, location)
- 4.12.1. The main power take-off shaft (s) .....
- 4.12.2. Other PTO shafts .....
- 4.12.3 PTO shield (characteristics, dimensions,  
drawings, photographs) .....

4.13. Protection of the drive elements, protruding parts and wheels (descriptions, drawings, diagrams, photographs)

4.13.1 Protection of one surface .....

4.13.2. Multiple Surface Protection .....

4.13.3 Protection from all sides .....

4.14. Brief description of electrical / electronic components (if available):

.....

**5 Axis**

5.1 Characteristics of each axis .....

5.2. Brand name (if necessary) .....

5.3 Type (if necessary) .....

**6 Suspension (if available)**

6.1 Possible wheel-tire combinations (smallest and tallest possible dimensions of tires and wheels, characteristics, tire pressure, maximum load, dimensions of rims and combinations of front wheel - rear wheel

.....

6.2. The suspension design for each axle or each wheel (if equipped)

.....

6.2.1 Level adjustment: available / not available / on request

6.2.2 Brief description of electrical / electronic components availability): .....

6.3 Other devices (if any) .....

**7 Steering (schemes)**

7.1. Steering type: manual / with booster / with power train / with volumetric hydraulic drive

7.1.1 Reversible control post (description) .....

7.2. Drive and control

7.2.1. Type of steering gear (for front and rear wheels, if applicable)

.....

7.2.2 Communication with wheels (also other types, except mechanical connection for front or rear wheels) .....

7.2.2.1 Brief description of electrical / electrical constructive elements (if any) ....

7.2.3 Method of amplification (if any) ...

7.2.3.1 Principle of operation and functional diagram, plant name and type

.....

7.2.4. Steering diagram showing the position of various devices tractor, influencing on act the helmsman management	.....
7.2.5 Steering scheme	.....
7.2.6. Adjustment range and method of actuating the adjustment of the body steering (if any)	.....
7.3. Maximum wheel angle (if necessary):	
7.3.1 Right	..... degrees
Number of revolutions of the steering wheel	.....
7.3.2. Left	..... degrees
Number of revolutions of the steering wheel	.....
7.4. Minimum turning circle diameter (without brake):	
7.4.1 Right	..... mm
7.4.2. Left	..... mm
7.5. Type of steering adjustment (if necessary)	.....
7.6 Brief description of electrical / electronic components (if available)	.....

## **8 Brake system (drawings and control schemes)**

8.1. Working braking system	.....	8.2. Auxiliary brake system (if equipped)	.....
8.3. Parking brake system	.....		
8.4. Additional braking system (s) (a retarder)	.....		
8.5. For tractors with anti-lock braking system (ABS): description work of the system (including electronic parts, if available), electronic block-schematic diagram of a hydraulic or pneumatic circuit	.....		
8.6 List of components, of which the braking system consists, their designation	.....		
8.7. Maximum allowable tire dimensions on axles with braking system	.....		
8.8. Calculation of the braking system (ratio of total braking force to force, attached to the control)	.....		
8.9. Locking the left and right brake controls	.....		
8.10 External Sources of energy (characteristics, energy intensity the maximum and minimum pressure, a manometer and pressure drop warning device compressor,			

compliance with prescriptions for pressure vessels) .....	
8.11 Tractors equipped with a braking system for trailers	
8.11.1. Activation of the trailer braking system (description, characteristics). .....	
8.11.2 Connection with trailer: mechanical / hydraulic / pneumatic	
8.11.3 Connections, protective devices (description, drawing, diagram) .....	
8.11.4 Single-wire / two-wire brake actuator	
8.11.4.1 Excessive line pressure (single-wire actuator): ..... kPa	
8.11.4.2 Excessive line pressure (two-wire actuator): ..... kPa	
9 Visibility, glazing, windshield wipers and rear-view mirrors	
9.1 Overview	
9.1.1 Drawings or photographs showing the position of the elements are in the forward-looking area. ....	
9.2 Glazing	
9.2.1. The position of the windscreen with respect to the seat reference point (SIP) .....	
9.2.2 Windscreen (a)	
9.2.2.1 Material (s) .....	
9.2.2.2 Method of installation .....	
9.2.2.3 Inclination angle ..... degrees	
9.2.2.4. A single product circulation mark on the market of the United States Of the Customs Union (approval mark) .....	
9.2.2.5. Additional windscreen equipment, its location and brief description of possible electrical / electronic components .....	
9.2.3 Other glass	
9.2.3.1 Location .....	
9.2.3.2 Material (s) .....	
9.2.3.3. A single product circulation mark on the market of Member States Of the Customs Union (approval mark) .....	
9.2.3.4 Brief description of electrical / electronic components presence) of the mechanism of window regulators ....	
9.3 Windshield wipers: available / not available (characteristic, quantity, frequency of cleaning .....	

9.4. The rearview mirror (s)	
9.4.1 Class (s) .....	...
9.4.2. A single product circulation mark on the market of Member States Of the Customs Union (approval mark) .....	
9.4.3 Location on the tractor (drawings) .....	..
9.4.4 Method of installation .....	..
9.4.5. Additional equipment that impairs rear visibility .....	
9.4.6 Brief description of electrical / electronic components (for presence) of the adjusting device .....	
9.5 Devices for thawing and sweating	
9.5.1. Technical description .... .....	
10 Roll-over protection (ROPS), weather protection impact, seat, cargo platform, angle transverse static sustainability	
10.1 ROPS (drawing with dimensions, photos (if necessary) and characteristics)	
10.1.1 Frame	
10.1.1.0 Available / Not available	
10.1.1.1 Factory mark (s) .....	
10.1.1.2 A single product circulation mark on the market of Member States Of the Customs Union (approval mark) .....	
10.1.1.3 Internal and external dimensions .....	
10.1.1.4 Materials and construction .....	..
10.1.2 Operator's cab	
10.1.2.0 Available / Not available	
10.1.2.1 Factory mark (s) .....	
10.1.2.2 A single product circulation mark on the market of the United States Of the Customs Union (approval mark) .....	
10.1.2.3 Doors (number, dimensions, opening direction, locks and hinges) .....	
10.1.2.4 Windows and emergency exits (number, dimensions, location) .....	..
<b>10.1.2.5 Other weather protection devices</b> (characteristic): .....	
10.1.2.6 Internal and external dimensions .....	
10.1.3. Stand, front / rear bar, tilts / does not recline	

10.1.3.0 Available / Not available	
10.1.3.1 Characteristics (placement, fixing, etc.) .....	
10.1.3.2 Factory mark (or trade name) .....	
10.1.3.3 Single sign of product circulation in the market of Member States Of the Customs Union (approval mark) .....	
10.1.3.4 Dimensions .....	
10.1.3.5 Materials and construction .....	
10.2 Workspace and access to the operator's workplace (description, characteristics, drawings and dimensions) .....	
10.3 Seats and running boards .....	
10.3.1 Operator's seat (s) (drawings, photographs, description) .....	
10.3.1.1. Factory or trade mark .....	
10.3.1.2. A single product circulation mark on the market of the United States Of the Customs Union (approval mark) .....	
10.3.1.3. Seat type category .....	
10.3.1.4 Location and basic characteristics .....	
10.3.1.5. Regulation system .....	
10.3.1.6 Range of regulation and interlocking .....	
10.3.2. Passenger seats (number, dimensions, location and characteristics) .....	
10.3.3 Footsteps (number, dimensions, location) .....	
10.4 Cargo platform .....	
10.4.1 Dimensions .....	.mm
10.4.2 Location .....	
10.4.3 Technically permissible load .....	kg
10.4.4 Axle load distribution .....	.. kg
10.5 Protection against radio interference .....	
10.5.1. Characteristics, drawings (or photographs) and material of the motor housing As, as well as the interior detail bordering on it .....	
10.5.2 Drawings or photographs showing the location of metal nodes in the engine compartment (for example, heating device, spare wheel, air filter, steering, etc.) .....	
10.5.3. <b>Diagram and drawing of the device for suppressing radio interference .....</b>	
10.5.4. Information on the nominal value of the DC resistance, and for high voltage wires of the ignition system	

The resistance value per meter of length	
10.6 Angle of transverse static stability .....	degrees
11 Lighting and light-signaling devices (appearance of the tractor with indicating the location of all devices; number, wiring, single the product circulation mark on the market of the state of the Union (approval mark) and the color of the emitted light	
11.1 Mandatory devices	
11.1.1. Headlamps of dipped-beam: .....	
11.1.2. Front position lamps .....	
11.1.3. Rear position lamps .....	
11.1.4. Direction indicators:	
front .....	
The back .....	
lateral: .....	
11.1.5. Rear retroreflectors .....	
11.1.6. The lantern of registration plate lighting .....	
11.1.7 Brake signal .....	
11.1.8 Emergency warning signal .....	
11.2 Recommended devices .....	
11.2.1. Main beam headlights .....	
11.2.2. Fog lamps .....	
11.2.3. Rear fog lamps	
11.2.4. Reversing lamps .....	
11.2.5. Working illumination lamp .....	
11.2.6. Parking lamps .....	
11.2.7 Contour Lights .....	
11.2.8. Traffic light warning lights.	
11.3. Brief description of other electrical / electronic devices (except for lanterns) (if available). .....	
12 Other devices	
12.1. Sound signal devices (location) ....	
12.1.1 A single mark of products in the market of the United States Of the Customs Union (approval mark)	
12.2. Mechanical connections between tractor and trailer	
12.2.1 Connection type .....	
12.2.2. Brand name (marks) .....	

12.2.3. A single product circulation mark on the market of Member States  
Of the Customs Union (approval mark)

12.2.4. The device is intended:

for the maximum horizontal load ..... kg for  
maximum vertical load (if available) ..... kg

12.3 Hydraulic lifting - three-point attachment:

available / not available

12.4. Electrical connectors for lighting and light-signaling devices

trailer (characteristic) .....

12.5 Location, actuation and designation of controls

(characteristics, photos or drawings) .....

12.6 Location of registration plate (shape and dimensions) .....

12.7 Front attachment (drawing with specified dimensions) .....

12.8. Description of the electronics installed on the tractor (trailer) used  
for operation and control .....

2. A shortened list of characteristics for the certification of tractors  
trailers

The shortened list should be filled in if there is already one or several certificates of conformity, communications concerning the official type approval under the UNECE Rules for compliance with requirements, and test reports issued by an accredited a testing laboratory (center) included in the Unified Register of certification and testing laboratories (centers) of the Customs Union, on components manufactured by the manufacturer of tractor or trailer and which are supplied only to own assembly production (hereinafter - test reports).

Numbers of relevant test reports, certificates compliance, type approval messages

The UNECE Regulations shall be listed in the table in paragraph 4 of this annex. In the annex to the certificate of conformity, the information is indicated in clauses 1-12 of clause 1 of this Application for each type / variant / version of the tractor (trailer).

If the issued test reports, conformity certificates, messages concerning type approval under the UNECE Regulations for compliance with individual requirements, there are no items are supplemented with the necessary information, given in full list of main characteristics.

## **0 General information**

0.1 Factory stamp (name of the manufacturer) ... ..

0.2 Type (if necessary, specify variants and versions) .....

0.2.1 Trademark (if necessary) .... ..

- 0.3 Characteristics for type identification, if available on a tractor (trailer)
  - 0.3.1 Manufacturer's label (location and method of installation) .....
  - 0.3.2 Chassis number (installation location). .....
- 0.4 Category of tractor (trailer). .....
- 0.5 Name and address of the manufacturer .....
- 0.7 For components and individual technical elements, the position and type application of a single sign of the circulation of products on the market of Customs Union (approval mark)
- 0.8 Name and address of the place of manufacture .....
- 1 Main technical characteristics of the tractor (trailer)
  - (Photographs of the tractor (trailer)  $\frac{3}{4}$  of the front view and  $\frac{3}{4}$  rear view, as well as a drawing with the indicated total dimensions of the tractor (trailer))
  - 2 Weight and dimensions
  - 3 Engine
  - 4 Transmission
  - 5 Axis
  - 6 Suspension brackets
  - 7 Steering
  - 8 Brake system
  - 9 Visibility, glazing, windshield wipers and rear-view mirrors
  - 10 Roll-over protection (ROPS), weather protection impact, seat, cargo platform, angle transverse static sustainability
  - 11 Lighting and light-signaling devices
  - 12 Other devices

3. In the technical description, combinations

characteristics, which are presented in paragraph 2 of this annex. AT

In the case of variable data, the technical description is supplemented with a letter designation to make it clear what information is relevant to each option (version).

For each performance, a separate technical description is completed.

Information for which there are no restrictions on them

combinations within the framework of performance, indicate in the column "all options".

Room Features	All options	Option 1	Option 2	...	Option n

This information can be presented in a different form.

Each version (version) should be labeled with a digital and (or) the alphanumeric code, which is also specified in the certificate of conformity and annex to the corresponding tractor (trailer).

4. The table must be given the necessary information, valid for a tractor (trailer).

For issuing the certificate of conformity certification body (conformity assessment (confirmation) of conformity) are provided with all the relevant test reports, certificates of conformity, reports relating to the type-approval of the UNECE Regulations to meet individual requirements.

The object	number of the test report, certificate of conformity, a communication concerning the type-approval of the UNECE Regulations to the tractor, the trailer or the component (s)	Date of issue of the test report, certificate of conformity, a communication concerning the type-approval of the UNECE Regulations to the tractor, trailer or component (component)	type (s) of embodiment (s) version (s)
Example Rearview mirror			

..... Signature

Position.....

Date.....

**Appendix 3 to the technical regulations of the Customs Union  
"On the safety of agricultural and forestry tractors  
and their trailers"  
(TR CU 031/2012)**

**Classification of tractors and trailers of categories and types in accordance with the technical regulations of the Customs Union "On the safety of agricultural and forestry tractors and trailers to them "(TR CU 031/2012)**

1. Categories of tractors and trailers

1.1. Category T - wheeled tractors

Category T1: wheeled tractors with a maximum design speed of 40 km / h, a minimum size axis gauge [1]) closer to the operator, at least 1150 mm, a curb weight of greater than 600 kg and the ground clearance is not more 1000 mm.

Category T2: wheeled tractors with a maximum design speed of 40 km / h, a minimum track size of less than 1150 mm, a curb weight of 600kg and the ground clearance is not more than 600 mm. If the ratio of the height of the center of gravity of the tractor to the average minimum size gauge axles exceeds 0.9, the maximum design speed must not exceed 30 km / h.

Category T3: wheeled tractors with a maximum design speed of 40 km / h and equipped weight of not more than 600 kg.

Category T4: special purpose wheeled tractors with a maximum design speed of not more than 40 km / h:

T4.1 - Straddle tractors for use in the processing of tall crops such as vines.

They are characterized by the increased height of the chassis or the chassis, so that they can be moved parallel to the rows of plants with an elevation over them.

They are designed for equipment working bodies, which can be installed in front, between the axles, the rear or on a platform. In operation the tractor exceeds 1,000 mm clearance. If the ratio of the height of the center of gravity of the tractor (under normal tire) to the average minimum size gauge axles exceeds 0.9, the maximum design speed must not exceed 30 km / h;

T4.2 - extra-wide tractors. They are characterized by large dimensions and are specially designed for large agricultural areas;

T4.3 - low-traction forestry or agricultural tractors with a four-wheel drive, the shifting working equipment of which is intended for work in forestry or agriculture, with a supporting frame, one or more power take-off shafts, technically permissible total mass of not more than 10 tons and the ratio of technically permissible total mass to a maximum curb weight of less than 2.5. The height of the center of gravity of such tractors (with conventional tires) is less than 850 mm.

Category T5: Wheeled tractors with a maximum design speed of more than 40 km / h. \_\_\_\_\_

for tractors with reversible operator's seat axis, located closer to the operator, it is believed axle equipped with the largest diameter tires.

### 1.2 Category C - crawler tractors

crawler tractors definitions of categories C1 - C5 as definitions of the categories of wheeled tractors of categories T1 - T5;

With 4.1 - Straddle crawler tractors definition is similar wheeled tractors category T4.1.

### 1.3 Category R - trailers

Category R1: trailers, technically permissible total mass not exceeding 1500 kg.

Category R2: trailers, technically permissible total mass of more than 1500 kg, but does not exceed 3500 kg.

Category R3: trailers, the technically permissible total mass of more than 3500 kg, but does not exceed 21,000 kg.

Category R4: trailers, the technically permissible total mass of which exceeds 21 000 kg.

Each category trailer in relation to the maximum design speed is in the designation letter a or b:

a - trailers with a maximum design speed of 40 km / h;

b - trailers with a maximum design speed of 40 km / h.

For example, for a trailer Rb3 category technically permissible cumulative mass distribution of the axes of more than 3500 kg, but not more than 21,000 kg, and it is designed for towing tractor T5 category.

## 2. The types of tractors and trailers

### 2.1. Wheeled tractors

#### 2.1.1. Type of tractor - tractors one category, which are characterized by:

one manufacturer;

the same type designation;

identical structural characteristics:

the chassis frame: spar / articulated (obvious and significant difference);

Engine (internal combustion engine / electric / hybrid drive); axles.

#### 2.1.2. Option - tractors of the same type which do not differ:

the engine:

the principle of action;

the number and arrangement of cylinders;  
capacity (more than 30%, i.e. the ratio of maximum to minimum capacity is not more than 1.3);  
swept volume (more than 20%, i.e. the maximum displacement volume ratio of the minimum is not more than 1.2);  
drive axles (number, position and drive);  
controlled axes (number and location);  
maximum allowable weight in the loaded state (more than 10%);  
transmission type;  
type suspension system (for tracked tractors);  
Rollover protection device;  
brake axles (by number).

2.1.3. Version - tractors with a combination of features that are listed in the documents of the type approval.

## 2.2. Crawler tractors

crawler tractors Type Definitions as definitions of the types of wheeled tractors.

## 2.3. Trailers:

2.3.1. Trailer type - trailers one category, which are characterized by:

one manufacturer;

the same type designation;

identical structural characteristics:

the chassis frame: spar / articulated (obvious and significant difference);

axles.

2.3.2. Option - trailers of the type which do not differ:

controlled axes (number and location);

maximum allowable weight in the loaded state (more than 10%);

brake axles (by number).

**Annex 4 to the technical regulations of the Customs Union**

**"On the safety of agricultural and forestry tractors and their trailers"**

**(TR CU 031/2012)**

**List of security requirements for tractors and trailers, in accordance with the technical regulations of the Customs Union "On the safety of agricultural and forestry tractors and trailers "(TR CU 031/2012)**

Table 4.1 - a list of security requirements for tractor and trailer

Feature or tractor figure or trailer	elements of the present technical regulations of the Customs Union or the designation of the standard or the UNECE Regulations set requirements for the characteristic or indicator	elements of the present technical regulations of the Customs Union or the designation of the standard or the UNECE Regulations that establish methods of control	categories tractors and trailers					
			T1	T2	T3	T5	C (except C4)	R
							1 2 3 4 5 6 7 8	
Technically permissible mass	Item 1 5 applications to this technical regulation CU	GOST 12.2.002-91	X	X		X	(X)	[X]
2 Location registration plate installation	item 11 application 5 to this technical regulation CU	application item 11 5 to this technical regulation CU	X	X	X	X	I	[X]
3 Fuel tanks	GOST 12.2.019-2005 item 3 5 applications to this technical regulation CU	GOST 12.2.019-2005 item 3 of annex 5 to this technical regulation CU	X	X	X	X	I	-
4 Ballast weights	Item 2 5 applications to this technical regulation CU	item 2 to 5 present application t of the Technical Regulations CU	X	X	(X)	(X)	I	-

5 audible signaling devices	12.2.019-2005 GOST Standard12.2.102-89	GOST12.2.019-2005	X	X	X	X	I	-
6 External noise	GOST P 51920-2002 12.2.019-2005 Standard	GOST 51920-2002 GOST 12.2.002-91	X	X	X	(X)	I	-
7 Max speeds	GOST 30748-2001 <a href="#">Item 4 5</a> applications to this technical regulation CU	GOST 30748-2001 application item 4 5 to this technical regulation CU	X	X	X	(X)	I	-
8 Loading platforms	<a href="#">Paragraph 5</a> of annex 5 to this technical regulation CU	GOST 12.2.002-91	X	X	X	(X)	I	-
9 Rule e control	GOST P51961-2002 ISO 15077-2010STB	STB 1611-2006	X	X	X	(X)	(X)	-
10 Electromagnetic compatibility	UNECE Regulations № 10 (03) / Revision 3	UNECE Regulations № 10 (03) / Revision 3	X	X	X	X	I	-
11 Brake systems	Standard12.2.019-2005	GOST12.2.002.3-91	X	X	X	-	(X)	-
	UNECE Regulations № 13 (10) / Revision 6	UNECE Regulations № 13 (10) / revision 6	-	-	-	X	-	[X]
	STB2216-2011	GOST 12.2.002.3-91	-	-	-	-	-	X
12 Devices lighting and light	UNECE Regulations № 86 (00)	UNECE Regulations № 86 (00)	X	X	X	X	I	[X]
	GOST 8769-75	Standard12.2.002-91 GOST12.2.102-89	-	-	-	-	-	X
13 towing devices	<a href="#">7 Item 5</a> to the infusion applications present technical regulations CU	item 7 5 applications to this technical regulation CU	X	X	X	(X)	I	-
14 of the PTO shafts	GOST 3480-76	GOST 26025-83	X	X	X	X	I	-

15 Dimensions of tractor, trailer and towed trailer weight	Item 8 application 5 to this technical regulation CU	GOST 26025-83	X	X	X	(X)	I	X
16 load on drawbar	STB 2216-2011	GOST 28307-89	-	-	-	-	-	X
17 to the design requirements of tractors and trailers	Item 13 of the present 5 application TR TC	Standard 12.2.002-91 GOST 31177-2003	X	X	X	X	I	[X]
18 protection portions s	STB 1984-2009	Standard 12.2.002-91 GOST 12.2.102-89	X	X	X	(X)	I	-
19 Mechanical traction devices	STB 2028-2010	STB 2028-2010	X	X	X	(X)	I	[X]
20 Label manufacturers	Item 9 5 applications to this technical regulation CU	GOST 26828-86	X	X	X	(X)	I	[X]
21 Manual	Standard ISO / 12100-2-2002 GOST 27388-87	Visual assessment	X	X	X	X	I	X
22 The coupling device of the trailer brake actuator	STB ISO 5676-2010 Item 10 5 applications to this technical regulation CU	GOST 22895-77 ISO 5676-2010 STB	X	X	X	(X)	I	X
23 Emissions of harmful substances	item 14 Annex 5 to this technical regulation of the Customs Union	UNECE Regulations № 96 (02) / Revision 1 UNECE Regulations № 49 (04) / Revision 3 *	X	X	X	X	X	-
24, the exhaust gas opacity	UNECE Regulations № 24 (03) / revision 2	UNECE Regulations № 24 (03) / revision 2	X	X	X	X	X	-

25 Speedometer	UNECE Regulations № 39 (00) / revision 1	UNECE Regulations № 39 (00) / revision 1	-	-	-	X	-	-
26 protect the system from spattering	STB2022-2009	STB2022-2009	-	-	-	X	-	[X]
Tires 27	UNECE Regulations № 106 (00)	UNECE Regulations № 106 (00)	X	X	X	X	-	X
28 speed limiting devices	ECE Regulation UN number 89	UNECE Regulation number 89	-	-	-	X	-	-
29 Lateral protection	UNECE Regulations № 73 (00)	UNECE Regulations № 73 (00)	-	-	-	X	-	X
30 Rear protective device	UNECE № 58-Rules Revision 1	UNECE Regulations № 58-revision 1	-	-	-	-	-	X
31 Stability trailer	STB EN 1853-2006	GOST 12.2.002-91 STB EN 1853-2006	-	-	-	-	-	X
32 support apparatus (semitrailer)	2216-2011 STB	GOST 12.2.002-91	-	-	-	-	-	X
system requirements 33 start and stop the engine	12.2.019-2005 GOST Standard 19677-87	GOST 12.2.002-91	X	X	X	X	I	-
34 rollover protection device (ROPS) (static test)	<a href="#">Number 12.1</a> application 5 to this technical regulation CU	STB ISO 8082-2004 GOST P ISO 5700-2008	X	-	-	(X)	I	-
35 Rollover protection device (ROPS) (dynamic testing)	12.1 Paragraph 5 Application to this technical regulation CU	STB ISO 8082-2004 GOST R ISO 3463-2008	X	-	-	(X)	(X)	-

36 protection device from falling objects (FOPS)	Item 5 12.1 applications to this technical regulation CU	GOST P ISO 3449-2009 GOST P ISO 8083-2008	X	X	X	X	I	-
37 The security device of the operator (OPS)	Item 5 12.1 applications to this technical regulation CU	GOST P ISO 80 84-2005	X	X	X	X	I	-
38 protect the operator from exposure to harmful substances	Paragraph 12.2 of Annex 5 of this technical regulation of the Customs Union	STB EN 15695-1-2011	X	X	X	X	I	-
39 Workspace and access to the driver's seat	Standard ISO 4252 - 2005 Standard ISO 4253-2005	GOST 12.2.002-91	X	-	X	(X)	I	-
40 System access	State Standard ISO 4252-2005 Standard ISO 4254-3-2005 Standard 12.2.102-89	GOST 12.2.002-91 GOST 26025 -83 GOST 12.2.102-89	X	X	X	X	I	-
	STB 2216-2011 1853-2006prEN	Standard 12.2.002-91 GOST 26025-83	-	-	-	-	-	X
41 controls	STB ISO 15077-2010 Standard ISO 4254-3-2005 State Standard 26336-97	GOST 12.2.002-91	X	X	X	(X)	I	-
42 Arrangement of locking devices and lifting forces of the sides of the trailer platforms	STB 2216-2011	GOST 12.2.002-91	-	-	-	-	-	X

43 Glazing	GOST 12.2.120-2005  UNECE Regulations № 43 (00) / 2 Review of	STB 1639-2006 GOST 5727-88 the UNECE Regulations № 43 (00) / Revision 2	X	X	X	X	I	-
44 Places mounting seatbelt	UNECE Regulation number 14 (06) / 4 Revision of GOST 26879-88	UNECE Regulation number 14 (06) / 4 Review of GOST 26879-88	X	X	X	X	X	-
45 Seat belts	GOST 26879-88 UNECE Regulations № 16 (04) / 5 Review of	GOST 26879-88 UNECE Regulation number 16 (04) / Revision 5	-	-	-	X	-	-
46 field visibility and windshield wipers	UNECE Regulation number 71 GOST 12.2.019-2005	UNECE Regulation number 71	X	X	X	(X)	I	-
47 Rearview and door mirrors	<a href="#">Paragraph 6</a> of Annex 5 of this technical regulation of the Customs Union	of the UNECE Regulations № 46 (02) / Revision 3	X	X	(X)	(X)	I	-
48 The operator seat	GOST 20062-96 GOST ISO 4253 - 2005	GOST 20062-96	X	X	X	(X)	(X)	-
49 passenger seats	ISO 4254-3-2005 Standard	GOST 12.2.002-91	X	-	X	(X)	I	-
50 the sound level at the workplace of the operator	GOST 12.2. 019- 2005 Standard 12.2.102-89	GOST 12.2.002-91 GOST 12.2.102-89	X	X	X	(X)	I	-
51 Vibration safety	12.1.012-2004 GOST	Standard 31193-2004	X	X	X	X	I	-
symbols: X - the requirement applies. (X) - applicability of requirements specified by the manufacturer.								

[X] - these standards or UNECE Regulation applies in terms of the requirements that apply to trailers.

- does not apply.

I - for T, depending on the category.

\* For spark-ignition engines fueled by natural gas or compressed liquefied petroleum gas.

Table 4.2 - A list of safety requirements for special-purpose tractors

Characteristic or component of the tractor	element of the present technical regulations of the Customs Union or the designation of the standard or the UNECE Regulations set requirements for the characteristic or indicator	elements of the present technical regulations of the Customs Union or the designation of the standard or the UNECE Regulations that establish methods of control	tractor categories			
			T4.1	T4.2	T4.3	S4.1
1	2	3	4	5	6	7
1 Technically permissible mass	Item 1 5 applications to this technical regulation CU	GOST 12.2.002-91	X	X	X	X
2 Location register setting signs	item 11 application 5 to this technical regulation CU	application item 11 5 to this technical regulation CU	(X)	(X)	X	(X)
3 Fuel tanks	GOST 12.2.019-2005 item 3 of Annex 5 to this technical regulation Customs Union	State Standard 12.2.019-2005 item 3 of annex 5 to this technical regulation CU	X	X	X	X
4 Ballast weights	Item 2 5 applications to this technical regulation CU	item 2 annex 5 to this technical regulation with Customs Hughes	X	X	X	X
5 audible alarm devices	12.2.019-2005 GOST Standard 12.2.102-89	GOST 12.2.019-2005	X	X	X	X

6 External noise	GOST P 51920-2002 12.2.019-2005 Standard	GOST P 51920-2002 GOST 12.2.002-91	(X)	(X)	X	(X)
7 Maximum speed	GOST 30748-2001 Item 4 5 applications to this technical regulation CU	GOST 30748-2001 Item 4 5 application to this technical regulation CU	X	X	X	X
8 Loading platforms	Paragraph 5 of annex 5 to this technical regulation CU	GOST 12.2.002-91	(X)	X	(X)	(X)
9 Electromagnetic compatibility	UNECE Regulations № 10 (03) / Perret 3 views	UNECE Regulations № 10 (03) / Revision 3	X	X	X	X
10 Steering	GOST P51961-2002 ISO 15077-2010STB	STB 1611-2006	X	X	X	SD
11 Brake system	12.2.019-2005 GOST	Standard 12.2. 002.3-91	(X)	X	X	(X)
12 lighting and signaling light	UNECE Regulations № 86 (00)	UNECE Regulations № 86 (00)	X	X	X	X
13 Towing device	item 7 5 application to this technical regulation CU	Item 7 5 application to this technical regulation CU	(X)	X	X	(X)
PTO shafts 14	GOST 3480-76	GOST 26025-83	X	X	X	X
Size tractor and trailer towed by weight 15	P tubing 8 5 applications to this technical regulation CU	GOST 26025-83	(X)	X	X	(X)
16 parts protections	STB 1984-2009	Standard 12.2.002-91 GOST 12.2.102-87	(X)	X	X	(X)
17 mechanical traction devices	STB 2028-2010	STB 2028-2010	X	(X)	X	X
18 plate manufacturers	item 9 5 applications to this technical regulation CU	GOST 26828-86	X	X	X	X
19 Manual	Standard ISO / 12100-2-2002 GOST 27388-87	Visual assessment	X	X	X	X

20 coupling devices of the trailer brake actuator	STB ISO 5676-2010 <a href="#">Item 10</a> 5 applications to this technical regulation CU	GOST 22895-77 ISO 5676-2010 STB	X	(X)	X	X
21 Emissions	<a href="#">item 14</a> application5 to this technical regulation CU	UNECE Regulations № 96 (02) / 1 Revision UNECE Regulations № 49 (04) / Revision 3 *	X	X	X	X
22 exhaust gas opacity	UNECE Regulations № 24 (03) / Revision 2	UNECE Regulations № 24 (03) / Revision 2	X	X	X	X
23 Tires	UNECE Regulations № 106 (00)	ECE Regulation UN № 106 (00)	X	X	X	-
24 requirements for engine start and stopping GOST	12.2.019-2005 Standard19677-87	GOST12.2.002-91	X	X	X	X
25 operator protections from harmful substances	<a href="#">Paragraph 12.2</a> etc. APPENDIX 5 to this technical regulation CU	STB EN 15695-1-2011	X	X	X	X
26 Rollover protection device (ROPS) (static test)	<a href="#">Number12.1</a> 5applications to this technical regulation CU	STB ISO 8082-2004 GOST P ISO 5700 - 2008	SD	X	X	SD
27rollover Protective Structure (ROPS) (dynamic tests)	Paragraph 12.1 of annex 5 of this technical regulation of the Customs Union	of STB ISO 8082-2004 GOST R ISO 3463- 2008	SD	X	X	SD
28workspace and access to the seat operator	GOST ISO 4252-2005 GOST ISO 4253-2005	GOST 12.2.002-91	(X)	(X)	(X)	(X)

29 access systems	GOST 12.2.019-2005 Standard ISO 4254-3-2005 Standard 12.2.102-89	GOST 12.2.002-91 GOST 26025-83 GOST 12.2.102-89	X	X	X	X
30 Controls	STB ISO 15077-2010 GOST ISO 4254-3-2005 26336-97 Standard	GOST 12.2.002-91	X	X	X	X
31 Glazing	GOST 12.2.120-2005	STB 1639-2006 GOST 5727-88	X	X	X	X
32 field visibilities, wipers	UNECE Regulations № 71 GOST 12.2.019-2005	UNECE Regulations № 71	(X)	(X)	X	(X)
33 Rearview Mirrors	6 Paragraph 5 applications to this technical regulation CU	UNECE Regulations № 46 (02) / revision 3	(X)	X	X	(X)
of the operator's seat 34	GOST 20062-96 ISO 4253-2005 Standard	GOST 20062-96	(X)	X	X	(X)
35 seat pass fat	GOST ISO 4254-3-2005	GOST 12.2.002-91	X	X	X	X
36 The sound level at the workplace of the operator	12.2.019-2005 GOST GOST 12.2.102-2005	GOST 12.2.002-91 GOST 12.2.102-89	(X)	X	X	(X)
37 Vibration safety	12.1.012-2004 Standard	GOST 31193-2004	X	X	X	X
Requirements for the construction of tractors	13 item 5 applications to this technical regulation CU	GOST 12.2.002-91 GOST 31177-2003	X	X	X	X

Legend:

X - the requirement applies.

(X) - applicability of requirements specified by the manufacturer.

SD - a requirement not found.

- does not apply.

\* For spark-ignition engines fueled by natural gas or compressed liquefied petroleum gas.

Appendix 5  
to technical regulations  
CU  
"On the safety of agricultural  
and forestry tractors  
and trailers"  
(TR CU 031/2012)

**safety requirements for tractors and trailers according to Appendix 4 to this technical regulation CU in accordance with the technical regulations of the Customs Union "On the safety of agricultural and forestry tractors and their trailers" (TR CU 031/2012)**

1. Requirements for the technically permissible operating weight wheeled tractors

1.1. Technically permissible operating weight of the tractor and the maximum operating mass distribution along the axes of the tractor depending on the category should not exceed the values listed in Table 5.1.

Specified by the manufacturer to be technically permissible operating weight must also be confirmed by the positive results of the tests carried out in the testing laboratory (center), about the effectiveness of the braking system and steering.

Table 5.1

Category tractors	Number of axes	Technically permissible operating weight, that	maximum allowable weight distribution of the axes, that is	
			master axis	not a leading axis,
T1, T2,	February	18(ballast)	11.5	10
T4.1	3	24 (ballast)	11.5	10
T3	2 or 3	0.6 (no ballast)	not available <sup>o)</sup>	not available <sup>o)</sup>
T4.3	2, 3 or 4	to 10 (ballast)	not available <sup>o)</sup>	not available <sup>o)</sup>

<sup>o)</sup>for tractors categories T3 and T4.3 the maximum permissible weight distribution along the axes not set as T3 and T4.3 categories tractors have limitations on the maximum permissible exploit translational weight with ballast and without ballast.

Note - These requirements apply only to categories of tractors, which are listed in this table.

1.2. When any load tractor mass transmitted to the road-wheel steering axle, should be at least 20% of the unladen weight of the tractor.

2. Requirements in ballast weights for wheel tractors

2.1. If the compliance requirements hereof CU tractor shall be fitted with ballast weights, the ballast weights to be supplied by the manufacturer of the tractor, to be suitable for mounting on a tractor and be marked with the manufacturer's weight in kilograms error  $\pm 5\%$ . The design of the front ballast weights, intended for frequent removal / installation should provide a safe distance of not less than 25 mm for the captured arms. Fitting method ballast weights should prevent unintentional detaching them (e.g. in case of overturning of the tractor).

3. Requirements to the fuel tanks

3.1. Fuel tanks must be corrosion-resistant. They must retain tightness at a pressure of 2 times the working pressure (but at least 30 kPa). Excessive pressure or pressure exceeding the working pressure must be compensated automatically by suitable devices (air, safety valves, etc.).

Air valve design should ensure fire safety. The fuel must not leak through the tank cap or via devices designed to compensate for the overpressure, even if the tank is in a completely inverted condition (allowed dropping).

3.2. Fuel tanks must be installed to protect against the effects of impact of the front or rear of the tractor. Next to the tank should be no protruding parts, sharp edges, etc.

3.3. The fuel filler neck and opening must be outside the cab.

4. Requirements for calculation and verification of the maximum design speed of wheeled tractors

4.1. To test laboratory (center) could determine a maximum design speed of the tractor, the manufacturer shall specify the ratio of the transmission, the actual movement of the drive wheels for one full turn of the wheel, the nominal engine crankshaft speed.

4.2. When testing the tractor speed must be measured on a straight section of which the tractor must cross in forward and reverse directions over one race. The surface area should be made of a solid material to be flat, smooth, minimum length of 100 m, can include the slopes of not more than 1.5%.

4.3. When testing a tractor must be in operation to be unloaded, without ballast weights and special equipment and the tire pressures shall be as specified by the manufacturer to carry out transport operations.

4.4. When testing a tractor must be fitted with new pneumatic tires with the highest rolling radius specified by the manufacturer for the tractor.

4.5. Transfer gearboxes used in the test should provide the maximum speed of the tractor, and the position of rotation of the motor controller controls the frequency must correspond to the total fuel supply.

4.6. When tested it is considered acceptable excess resulting measurement values over admissible for this type of tractor 3 km / h to allow for inaccuracies in the measurements, as well as increasing the engine rotational speed at partial load.

5. to the cargo wheeled tractors Platform Requirements

5.1. The center of gravity of the loading platform to be located between the axles.

5.2. The dimensions of the loading platform must meet the following requirements: the length should not exceed the gauge of the front or rear wheels of the tractor (depending on which is the greater) greater than 1.4 times;

width must not exceed the maximum overall width of the tractor without working equipment.

5.3. The platform must be positioned symmetrically about the longitudinal plane of the tractor.

5.4. The height of the loading platform on the supporting surface should be not more than 1500 mm.

5.5. The design and method of attachment platform under normal load must not impair the operator's field review, as well as not to interfere with the normal operation of lighting and light signaling devices.

5.6. Loading platform must be detachable and to be connected to the tractor in such a way as to prevent accidental disconnection.

6. Requirements for the installation of rear view mirrors wheeled tractors

6.1. Tractors must be equipped with rear-view mirrors of classes I and II of UNECE Regulation number 46 (02) / 3 Revision

6.2. Rear-view mirrors must be fixed in such a way that under normal driving conditions, their situation continued.

6.3. All tractors must be equipped with at least one outer rear-view mirror mounted on the left side of the tractor.

6.4. Rearview mirror should be positioned so that the operator in the seat, which is in the normal position, has a clear view of the road, as defined in [paragraph 6.11](#) of paragraph 6 of this application.

6.5. Rearview mirror must be visible through part of the windshield wiper to be cleaned, or through the side window, when the tractor is equipped with them.

6.6. Rear-view mirror must not protrude beyond the external dimensions of the tractor or tractor-trailer composition more than is necessary to obtain the fields of vision defined in [paragraph 6.11](#) of paragraph 6 of this annex.

6.7. If the lower edge of the rear-view mirror is located at a height of less than 2 m above the supporting surface when the tractor is loaded, this rearview mirror should not project more than 0.2 m in overall width of the tractor or a tractor-trailer composition measured without mirrors.

6.8. Any interior rear-view mirror must be controlled by the operator from the workplace.

6.9. The operator must be able to adjust the position of the external rear-view mirror, while in the workplace. When this mirror may be fixed in position on the outer side. Permitted adjustment outside rearview mirror from the outside, the operator must have at least three support points.

6.10. The requirements specified in [sub-paragraph 6.9](#) of paragraph 6 of this Annex shall not apply to exterior mirrors which, after moving automatically returns to its original position without the use of tools.

6.11. The field of vision of the left rearview mirror must be such that the operator can see the rear part of the flat, horizontal road, located on the left of the plane parallel to the median longitudinal vertical plane which passes through the leftmost point of the overall width of the tractor or a tractor-trailer composition.

## 7. A towing device for wheeled tractors Requirements

7.1. Each tractor must have a special device that provides attachment devices (e.g., bar or towing rope) for towing it.

7.2. The device is equipped with a connecting finger must be positioned in front of the tractor.

7.3. The apparatus should be a plug. The distance between the inner surfaces of the fork of the center connector pin should be 60 [0.5]<sub>-1.5</sub> mm, and the depth gripping fork, measured from the center of the finger must be  $(62 \pm 0,5)$  mm.

The connecting pin must have a diameter of 30 [1.5] mm and equipped with a device to prevent it from falling out of the slot during use. The locking device may be non-removable.

8. to the size requirements of wheeled tractors, trailers and the permissible weight of the towed trailer

### 8.1. Dimensions

8.1.1. Dimensions tractor should be no more than:

length 12 m;

width 2.55 m (excluding elevations due tires near their point of contact with the support surface), allowed to increase the overall width of up to 3.1 m, while ensuring traffic safety (for tractors of tractor categories T4.2 overall width must not be more than 4.4 m);

height of 4 m.

8.1.2. Overall dimensions of the trailer must not be more than:

width 2.55 m (excluding elevations due tires near their point of contact with the support surface);

height of 4 m.

8.2. Permissible towable trailer mass

8.2.1. Permissible towable trailer mass must not exceed:

technically permissible towable mass recommended by the manufacturer of the tractor;

towable mass mounted to the trailer coupling.

9. Requirements to the location, mounting and maintenance of the manufacturer's plates on wheeled tractors and trailers

9.1. In all agricultural and forestry tractors and trailers must be installed signs with the marking, the content of which is incorporated hereinafter. Tablets are factory installed.

9.2. Manufacturer's

9.2. 1plate. Manufacturer's plate should be installed in a clearly visible and easily accessible location on the tractor or trailer, which should not be changed during the entire life cycle. Text labels should be legible, persist for the lifetime of the tractor and trailer.

Manufacturer's plate on the tractor must contain the following information:

name of the manufacturer;

Tractor type and version (version) (if any);

Room compliance certificate (further applied after receiving the certificate of conformity);

tractor identification number;

the minimum and maximum total permissible weight of the tractor under load, depending on the allowable types of tire which may be fitted;

maximum allowable load borne by each axle of the tractor, according to the possible types of tires which can be installed (information to be listed in order from front to rear axle);

technically permissible towable weight (s) of the trailer.

Manufacturer's plate on the trailer should contain the following information:

name of the manufacturer;

trailer type and version (if any);

Room compliance certificate (further applied after receiving the certificate of conformity);

total permissible weight of the trailer in the loaded state, depending on the allowable types of tire which may be fitted;

maximum allowable load borne by each trailer axle (information to be listed in order from front to rear axle);

load on the tractor towing hitch (for semi-).

9.2.2. The manufacturer may give additional information below or to one side the main marking is clearly labeled rectangles that include only the information contained in [subparagraph 9.2.1](#), paragraph 9 of the present application. Example of manufacturer's plate is given in [Appendix 6](#) to the present technical regulations of the Customs Union.

9.3. Identification number of the

9.3.1 tractor. Tractor identification number is a fixed combination of characters assigned to each tractor by the manufacturer. Its purpose - to ensure that every tractor can be clearly identified by the manufacturer for 30 years.

9.3.2. The identification number must be applied to the tablet manufacturer and on the frame or other structural member on the front right side of the tractor.

9.3.3. Identification number as possible should be placed in one line.

9.3.4. The identification number is to be placed in a well visible and accessible, applied shock or stamping process ensuring that it cannot erase or damage.

9.4. Signs

9.4.1. Marking in accordance with [sub-paragraph 9.2](#) of paragraph 9 of this Annex, performed in Russian and in the state (s) language (s) of the State - a member of the Customs Union with the appropriate requirements of the law (s) of the State - a member (states - members) of the Customs Union. For marking referred to in [sub-paragraphs 9.2](#) and [9.3](#) of paragraph 9 of this Annex, should be used Arabic numerals.

9.4.2. In designating the identification numbers of the tractor to be used uppercase letters, the use of «I» letters, «O», «Dashes, stars, and other special characters are not allowed.

The minimum height of the letters and numbers as follows:

7 mm marks applied directly on the frame of the tractor or other similar structure;

4 mm for characters applied to the tablet manufacturer.

10. Requirements for the body of the trailer brake control system and coupling device of the trailer brake actuator wheeled tractors

10.1. The tractor must be equipped with a body of the trailer brake control, it can be hand or foot and will be managed from a workplace of the operator, as well as being independent of the other controls.

If the tractor is equipped with a brake, the braking of the tractor and trailer structure must manage only one single control.

10.2. The applied braking systems may have the characteristics given in the corresponding UNECE Regulation № 13 (10) / Revision 6 against the wheel brake devices of agricultural and forestry tractors and trailers.

Brake systems must be designed to ensure safe stopping of the tractor and the trailer in the event of failure of trailer braking, as well as in case of disconnection.

10.3. If the provided pneumatic, hydraulic or combined drive a tractor and a trailer, it must meet the following conditions.

#### 10.3.1. Hydraulic drive

hydraulic actuator must be single-ended type.

Hydraulic coupling device should meet STB ISO 5676-2010, male coupling half to be attached to the tractor.

Trailer brake control shall ensure absence of pressure in the connecting head in the inoperative position, the working pressure must be no less than 10 MP and not more than 15 MP.

Not allowed disconnecting the power source from the motor.

#### 10.3.2. The pneumatic drive

pneumatic actuator the trailer brakes must be a two-wire type, and the braking process should begin when the pressure in the control line.

Be installed in the single-wire tractors pneumatic trailer brakes. In this case, the deceleration process should begin at lower pressure in the brake pipe.

Coupling head must comply with STB ISO 1728-2010.

Trailer brake control shall can provide maximum pressure to the coupling head of at least 0.65 MP and not more than 0.8 MP.

10.3.3. The design of the pneumatic, hydraulic actuators and the combined trailer brakes must provide braking of the trailer in the event of accidental disengagement of the trailer from the tractor.

### 11 to a place for mounting the rear registration plate tractors Requirements

#### 11.1. The configuration and dimensions of space for the rear registration plate.

Location for the rear registration plate should be a flat, vertical rectangular surface with the following minimum dimensions:

width - 255 mm;

Width - 165 mm.

11.2. Location Positioning the rear registration plate and mounting the rear registration plate.

Location for the rear registration plate must be such that when correctly installed license plate provides the following conditions.

11.2.1. The position of the registration mark relative to the vehicle width direction.

Registration plate center should not be located to the right of the plane of symmetry of the tractor.

The left edge of the license plate cannot be located on the left of a vertical plane parallel to the plane of symmetry of the tractor and passing through the most projecting portion of the width of the tractor.

11.2.2. The position of the registration mark relative to the longitudinal plane of symmetry of the tractor.

Registration plate should be positioned perpendicular or substantially perpendicular to the longitudinal plane of symmetry of the tractor.

11.2.3. The position of the registration mark relative to the vertical plane.

Registration plate should be positioned vertically with a tolerance of 5 °. Despite this, the registration mark can be disposed at an angle to the vertical, if so required by the tractor configuration:

an angle not exceeding 30 °, when the upper part of the registration plate is inclined forward, with the proviso that the upper edge of the registration mark is not greater than 1.20 m above the support surface;

at an angle less than 15 °, when the upper part of the registration plate is inclined backward, with the proviso that the top edge of the license plate is located above 1.20 m above the supporting surface.

11.2.4. The height of the license plate above the support surface.

The lower edge of the license plate to be located above the support surface at a height of not less than 0.3 m, and the upper edge - at a height of 4 m

11.2. 5.. Determination of the height of the license plate above the support surface.

A height indicated in [subparagraphs 11.2.3](#) and [11.2.4](#) paragraph 11 of this application should be measured on a tractor with the set of basic equipment (including rollover protection device and excluding attachments), with the load on the seat, the operator corresponding weight ( $75 \pm 10$ ) kg, completely filled with fuel, lubricants and coolants capacitances, the completed instrument.

12. The protective properties of the tractor

Agricultural tractors must be equipped with safety cabs or have additional protection against falling objects and rollover protection device.

Forestry tractors must be equipped with showers and are equipped with safety devices rollover protection devices from falling objects and operator protection devices.

#### 12.1. Protection device operator

protection device from falling objects (FOPS) agricultural tractors must correspond to protection class I of penetration in accordance with GOST R ISO 3449-2009.

Rollover protection device (ROPS) agricultural tractors - GOST P ISO 3463-2008 or GOST P ISO 5700-2008.

Personal protective devices forestry tractors must comply with:

STB ISO 8082-2004 - in terms of protection devices rollover (ROPS);

GOST P ISO 8083-2008 - in terms of protection from falling objects devices (FOPS);

GOST R ISO 8084-2005 - regarding the protection of the operator (OPS) devices.

#### 12.2. Operator protection from harmful substances

All tractors, which are intended for use in which the risk of possible contact of the operator to hazardous substances must be equipped with cabs, requirements relevant levels 2, 3 and 4 of the STB EN 15695-1-2011. The selection criterion level should be given in the instruction manual.

Tractors with installed equipment for spraying pesticides must be equipped cab 4 corresponding level requirements STB EN 15695-1-2011.

### 13. Additional requirements for the construction of tractors and trailers

#### 13.1. Tolerance requirements tractors and trailers

lateral static stability angle of tractors and trailers according to the category and the conditions of use set in accordance with the GOST 12.2.019-2005. Form of technical descriptions given in [Annex 2](#) to this technical regulation of the Customs Union.

Tractors designed for working in the mountains, should be equipped with alarms maximum permissible roll.

#### 13.2. To fire protection requirements of tractors

of tractor Fire protection must comply STB EN 13478-2006 and 30879-2003 GOST (in terms of the materials used for trim).

On tractors must be provided for fixing the fire extinguisher.

#### 13.3. A hydraulic drive tractor and trailers the requirements of

Hydraulic tractors and trailers shall comply with GOST 31177-2003.

#### 13.4. Safety requirements for operation

Elements of construction of the tractor and trailer, which can represent

Danger when operating, servicing or transporting must have signaling color. Signal colors and safety signs to comply with GOST R 12.4.026-2001.

Schemes of mooring and joining of the stropping chains should be are shown on the tractor and trailer.

The places of installation of the jacks are marked on the tractor and trailer by symbols on GOST 26336-97.

#### 13.5. Additional requirements to the tractor cab

The cab of the tractor must be provided for placing the medicine chest, upper garment of the operator and the technical documentation.

Tractor cab must be fitted with headlight glasses.

The cab of the tractor must be equipped with a device that protects the operator's face from direct sunlight.

Opened the cab windows should be opened from the inside and have a device for securing them in the open and closed position.

Cab doors should have locks, locked with a key and lock to keep them in the extreme open position.

#### 13.6. Additional requirements for trailers

and semitrailers Tipper trailers must be designed in such a way that the highest permissible position in the platform raised position could not be exceeded.

Trailers and semi-trailers must be fitted with a device (focusing) for fixing an unloaded platform in the raised position (on one side only and back or back, if no lateral unloading).

14. The emissions of harmful substances requirements contained in the exhaust gases of the engines of tractors

4.1. Until February 15, 2017 emissions of harmful substances contained in exhaust gases of the engines of tractors, must not exceed the values, given in:

UNECE Regulation No. 49 (04) / Revision 3 (paragraph 5.2.1., Line B1) for engines with forced ignition, working on natural compressed gas or liquefied petroleum gas;

UNECE Regulation No. 96 (02) / Revision 1 for engines with compression ignition.

14.2. From February 15, 2017 emissions of harmful substances contained in

exhaust gases of the engines of tractors, must not exceed the values,

given in:

UNECE Regulation No. 49 (04) / Revision 3 (paragraph 5.2.1., Line B2) for engines with forced ignition, working on natural compressed gas or liquefied petroleum gas;

Table 5.2 - for engines with compression ignition.

Table 5.2

Tractor power, kW	weight carbon monoxide (CO), g / kWh	hydrocarbons Mass (HC), g / kWh	Mass of nitrogen oxides (NO <sub>x</sub> ), g / kWh	particulate mass (PT), g / kWh
From 19 to 37	5.5	(HC + NO <sub>x</sub> ) 7.5		0.6
"37"56	5.0	(HC + NO <sub>x</sub> ) 4.7		0.025
"56"75	5.0	0.19	33	0,025
"75" 130	5.0	0.19	3.3	0.025
"130" 560 incl.	3.5	0.19	2.0	0.025

14.3. Permitted application of the requirements set out in [paragraph 14.2](#) of this annex, to February 15, 2017.

Appendix 6  
to technical regulations  
CU  
"On the safety of agricultural  
and forestry tractors  
and trailers"  
(TR CU 031/2012)

**plate tractor manufacturer classification and technically acceptable towed masses  
in accordance with the technical regulations CU "On the safety of agricultural and  
forestry tractors and trailers "(TR CU 031/2012)**

1. Example of the tractor manufacturer's plate

Minsk tractor plant	
type: 846E	
Certificate Number conformity XXXX	
ID: GBS18041947	
total permissible weight *	4820 - 6300 kg
permissible front axle load *	2390 - 3200 kg
Permissible rear axle load *:	3130 - 4260kg
* depending on the tires.	
The permissible towable trailer mass:	
- loose:	3 000 kg
- with the independent braking:	6000 kg
- inertial braking:	3000 kg
- hydraulically or pneumatically operated brakes:	12 000 kg

2. Classification of the technically permissible towable mass

considered include technically permissible towed weight of the trailer:

2.1. Mass without trailer brakes.

2.2. Mass trailer with independent braking, i.e. machine-tractor unit is braked by means of devices having the following characteristics:

a trailer brake control authority is independent from the braking control of the tractor and in all cases mounted on the tractor in such a way that it can easily be operated by the operator from his workplace;

muscular power of the operator is the energy used for braking the towed trailer.

2.3. Trailer braking inertial mass, i.e. the trailer is braked using force generated when approaching a trailer to the tractor.

2.4. Mass trailer equipped with a hydraulic, pneumatic or combined drive brake, i.e. braking the machine and the tractor unit can be continuous, semi-continuous or independent motorized drive.

Continuous braking machine and the tractor unit is performed by a device having the following characteristics:

- a single control, which located in place the operator operates one smooth motion;
- energy used for the braking machine and the tractor unit comes from the same source (which may be the muscular power of the operator);

Braking system provides simultaneous or gradual deceleration of the tractor and the trailer, regardless of their relative position.

Semicontiguous braking machine and the tractor unit is performed by a device having the following characteristics:

- a single control, which located in place the operator operates one smooth motion;
- energy used for the braking machine and the tractor unit comes from several different sources (one of which may be the muscular power of the operator);

Braking system provides simultaneous or gradual deceleration of the tractor and the trailer, regardless of their relative position.

Braking with independent Power-machine-tractor unit is carried out by means of a device having the following characteristics:

- a trailer brake control authority is independent from the body of the tractor brakes, and in all cases mounted on the tractor in such a way that it can easily be operated by the operator from his workplace;

- muscular power of the operator is not the energy used for braking the towed trailer.

3. The difference between the technically permissible towed weight set by the manufacturer, and allowed towed weight given in [paragraph 8.2](#) of Annex 5 to this technical regulation CU.