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APTU Uniform Rules (Appendix F to COTIF 1999)

Uniform Technical Prescriptions (UTP) relating to the Subsystem Rolling Stock

FREIGHT WAGONS - ANNEX II

VEHICLE TRACK INTERACTION AND GAUGING

ASSESSMENT PROCEDURE: LIMITS FOR MODIFICATIONS OF FREIGHT WAGONS NOT REQUIRING NEW APPROVAL

Explanatory note:

The texts of this UTP which appear across two columns are identical to corresponding texts of the European Union regulations. Texts which appear in two columns differ; the left-hand column contains the UTP regulations, the right-hand column shows the text in the corresponding EU regulations. The text in the right-hand column is for information only and is not part of the OTIF regulations.

OTIF UTP

Corresponding text in EU regulations ¹


EU ref. ²

Freight wagons, which have changes, as given within the limits of this Annex, in the technical parameters in comparison to the original design of the approved wagon shall not require a new conformity assessment

Distance between bogie centers (wagons with bogies)	$2a^* \geq 9 \text{ m}$	- 15 % to + ∞
	$2a^* < 9 \text{ m}$	- 5 % to + ∞
Vehicle wheel base (2 axle wagons)	$2a^* \geq 8 \text{ m}$	- 15 % to + ∞
	$2a^* < 8 \text{ m}$	- 5 % to + ∞
Center of gravity height	Empty vehicle	- 100 % to + 20 %
	Loaded vehicle	- 100 % to + 50 %
Torsional stiffness Ct^* ($10^{10} \text{ kN/mm}^2/\text{rad}$)	$Ct^* \leq 3$	- 66 % to + 200 %
	$Ct^* > 3$	- 50 % to + ∞
Vehicle tare	$\geq 16 \text{ t}$ (wagons with bogies)	- 15 % to + ∞
	$\geq 12 \text{ t}$ (2 axle wagons)	
Modification of max. wheel set load		+ 1,5 t
Moment of inertia of vehicle body (around z-axis — for 2 axle wagons only)		- 100 % to + 10 %
Vertical suspension primary or secondary	Stiffness	0 to + 25 %
	Transitional loads	- 5 % to 0
Rotational torque of bogie		- 20 % to + 20 %

¹ TSI Freight Wagons – The Annex to the Commission Decision 2006/861/EC published in the EU Official Journal L344 on 08.12.2006 as amended by Commission Decision 2009/107/EC published in EU Official Journal L45 on 14.02.2009.

² If no EU reference is indicated, it means that the chapter/section number is the same as in the OTIF text.

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Moment of inertia of whole bogie (around z-axis)		- 100 % to + 10 %
Nominal wheel diameter		- 10 % to + 15 %

The proof of the above mentioned as well as accompanying criteria such as strength, braking performance, kinematic gauge, etc. is the
applicant's responsibility. | manufacturer's or contracting entity's