
Agricultural trailers — Balanced and semi-mounted trailers — Determination of payload, vertical static load and axle load

Remorques agricoles — Remorques à avant-train et semi-remorques — Détermination de la charge utile, de la charge statique verticale et de la charge par essieu

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Printed in Switzerland

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International Standard ISO 17900 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

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Agricultural trailers — Balanced and semi-mounted trailers — Determination of payload, vertical static load and axle load

1 Scope

This International Standard specifies a method for determining the payloads, vertical static drawbar loads and axle loads of agricultural semi-mounted and balanced trailers by means of weighing the empty trailer and then calculating the requirements.

2 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

2.1

semi-mounted trailer

towed vehicle with one axle or axle group of landwheels and a drawbar towing device (drawbar) that cannot move relative to the vehicle, allowing the transmission of vertical forces from the towed vehicle through the drawbar to the towing vehicle

NOTE 1 Some slight vertical movement may occur at a rigid drawbar (e.g. due to suspension movements).

NOTE 2 A hydraulically adjustable articulated drawbar is considered to be a rigid drawbar.

2.2

balanced trailer

towed vehicle with at least two landwheel axles at least one of which is steerable, and a drawbar towing device that allows vertical movement so that vertical forces cannot be transferred to the towing vehicle

2.3

axle load

m_a

that part of the mass of the trailer and any payload carried by a particular ground wheel axle of the trailer or, in the case of multiple axles, the combined axle load

NOTE The maximum permissible axle load is specified by the manufacturer.

2.4

vertical static load

m_s

vertical load resulting from the loads produced by the mass of a semi-mounted trailer exerted at the centre of the drawbar coupling point under static conditions

NOTE The maximum permissible vertical static load is specified by the manufacturer.

2.5

maximum mass

m_{max}

technically maximum possible trailer mass and allowable payload specified by the manufacturer

NOTE This mass corresponds to the sum of the technically maximum possible axle loads and, in the case of a semi-mounted trailer, the vertical static load.