
International Standard



7641/1

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Road vehicles — Caravans and light trailers — Calculation of the mechanical strength of the drawbar — Part 1 : Steel drawbars

Véhicules routiers — Caravanes et remorques légères — Calcul de résistance des timons — Partie 1 : Cas des timons en acier

First edition — 1983-10-01

UDC 629.114.3 : 629.11.013.5

Ref. No. ISO 7641/1-1983 (E)

Descriptors : road vehicles, caravans, drawbars, computation, mechanical strength.

Price based on 3 pages

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 7641/1 was developed by Technical Committee ISO/TC 22, *Road vehicles*, and was circulated to the member bodies in September 1982.

It has been approved by the member bodies of the following countries:

Australia	Germany, F.R.	Romania
Austria	Hungary	South Africa, Rep. of
Belgium	Iran	Spain
Brazil	Italy	Sweden
Bulgaria	Japan	Switzerland
China	Korea, Dem. P. Rep. of	United Kingdom
Czechoslovakia	Netherlands	USA
Egypt, Arab Rep. of	New Zealand	USSR
France	Poland	

No member body expressed disapproval of the document.

Road vehicles — Caravans and light trailers — Calculation of the mechanical strength of the drawbar — Part 1 : Steel drawbars

1 Scope

This part of ISO 7641 gives a simplified procedure for the calculation of the mechanical strength of drawbars for caravans and light trailers¹⁾ where the vertical static load on the coupling head does not exceed the limits specified in ISO/TR 4114.

2 Field of application

Calculations shown in this part of ISO 7641 apply only to steel drawbars, of welded and other than welded construction.

For welded drawbars, only those types of steel which contain not more than 0,22 % carbon and the weldability of which is guaranteed by the manufacturer shall be used.

The welding procedure requirements given by the manufacturer shall be met (preheating, for example).

Drawbars made from other materials will be dealt with in ISO 7641/2.

3 References

ISO 1176, *Road vehicles — Weights — Vocabulary.*

ISO/TR 4114, *Road vehicles — Caravans and light trailers — Static load on ball couplings.*

ISO 7237, *Road vehicles — Masses and dimensions of caravans — Terms and definitions.*

1) Categories 01 and 02 as in ECE/UNO classification.