

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

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## ISO RECOMMENDATION R 1084

INDUSTRIAL TRACTORS

DEFINITION AND NOMINAL RATING

1st EDITION

June 1969

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## BRIEF HISTORY

The ISO Recommendation R 1084, *Industrial tractors – Definition and nominal rating*, was drawn up by Technical Committee ISO/TC 110, *Industrial trucks*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question led, in 1967, to the adoption of a Draft ISO Recommendation.

In September 1967, this Draft ISO Recommendation (No. 1061) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	India	Switzerland
Belgium	Ireland	Turkey
Bulgaria	Israel	U.A.R.
Czechoslovakia	Netherlands	United Kingdom
France	Poland	U.S.A.
Germany	South Africa, Rep. of	U.S.S.R.
Greece	Sweden	Yugoslavia

One Member Body opposed the approval of the Draft :

Japan

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in June 1969, to accept it as an ISO RECOMMENDATION.

## INDUSTRIAL TRACTORS

### DEFINITION AND NOMINAL RATING

#### 1. SCOPE

This ISO Recommendation defines industrial tractors and their nominal rating and states the additional data for the commercial data sheets.

#### 2. DEFINITION

An *industrial tractor* is a powered industrial truck, with solid or pneumatic tyres, with three or more wheels with front or rear drive wheels, intended for towing or shunting one or several unpowered trucks or trailers, inside or outside buildings and, exceptionally, on public roads.

#### 3. NOMINAL RATING

##### 3.1 Designation

The nominal rating of tractors (such as defined above) should be expressed by the maximum drawbar pull, in decanewtons\*, that can be developed at a specified coupling height while moving a load at a uniform speed not less than 1 % of the maximum no load speed.

##### 3.2 Measurement

The drawbar pull should be measured when the truck is travelling on a smooth, dry, horizontal, concrete surface, at the uniform test speed obtained after acceleration, with a horizontal towbar in the longitudinal axis of the vehicle, and with a driver weighing about 70 kg (150 lb) in the case of a sit-on or stand-on tractor.

##### 3.3 Tyres

The drawbar pull should be given for a tractor equipped either with solid tyres of any kind, or with pneumatic tyres inflated to the pressure specified by the tractor manufacturer.

\* When the British and metric technical units of force are used to express the nominal rating of industrial tractors, the corresponding value in decanewtons should be based on the following (see ISO Recommendation R 31, Part III, *Quantities and units of mechanics*) :

1 kilogramme-force = 0. 980 665 decanewton  
1 pound-force = 0. 444 822 decanewton