

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION
R 500

**POWER TAKE-OFF AND DRAWBAR
FOR AGRICULTURAL TRACTORS**

1st EDITION

September 1966

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Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 500, *Power Take-off and Drawbar for Agricultural Tractors*, was drawn up by Technical Committee ISO/TC 22, *Automobiles (Section ISO/TC 22 (T) — Agricultural Tractors)*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question by the Technical Committee began in 1952 and led, in 1961, to the adoption of a Draft ISO Recommendation.

In May 1962, this Draft ISO Recommendation (No. 503) 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	Greece	Romania
Austria	Ireland	Spain
Belgium	Italy	Sweden
Chile	Japan	Switzerland
Czechoslovakia	Netherlands	United Kingdom
France	New Zealand	Yugoslavia
Germany	Portugal	

Four Member Bodies opposed the approval of the Draft:

Canada
Poland
U.S.A.
U.S.S.R.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in September 1966, to accept it as an ISO RECOMMENDATION.

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POWER TAKE-OFF AND DRAWBAR FOR AGRICULTURAL TRACTORS

1. PURPOSE

This ISO Recommendation deals with international standardization of the main power take-off on agricultural tractors. The recommended type of shaft is the splined shaft of 35 mm for which the following characteristics are specified:

- dimensions,
- speed of rotation,
- direction of rotation,
- height above the ground,
- distance to the mid-plane.

Further, this ISO Recommendation also relates to

- the clearance round the power take-off,
- location of the drawbar in relation to the power take-off,
- certain dimensional characteristics for the drawbar,
- the power take-off master guard.

2. SCOPE

The requirements recommended for 35 mm power take-off shafts apply to agricultural tractors. They do not apply to single-axle tractors, known as motor-cultivators.

The 35 mm ($1 \frac{3}{8}$ in) shaft is recommended for powers up to 45 hp * at the power take-off, at the standard power take-off speed of rotation (540 r.p.m. (revolutions per minute)).

The indications relating to the positions of the power take-off and the drawbar, and the specifications relating to the drawbar, apply to all tractors, but not to single-axle tractors, known as motor-cultivators.

3. POWER TAKE-OFF

The recommended specifications for the main power take-off on agricultural tractors deal with dimensions, speed and direction of rotation and location.

* 1 hp = 0.746 kW.