International Standard



730/II

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

Agricultural wheeled tractors — Three-point linkage — Part II: Category 1 N (Narrow hitch)

Tracteurs agricoles à roues - Attelage trois points - Partie II : Catégorie 1 N (Attelage étroit)

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UDC 631.372: 629.11.013

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Descriptors: agricultural machinery, tractors, coupling, specifications, dimensions, lifting powers.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

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 730/II was developed by Technical Committee VIEW ISO/TC 23, Tractors and machinery for agriculture and forestry, and was circulated to the member bodies in June 1977.

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

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Australia Germany, Flanks, itch. ai/catal Romaniads/sist/508ebaf9-192c-46e1-a5dd-Austria India 09d562South (Africa), (Repl. 67)

Belgium Iran Spain
Bulgaria Italy Sweden
Chile Korea, Dem. P. Rep. of Switzerland
Czashoslovskie Movies

Czechoslovakia Mexico Turkey
Denmark New Zealand United Kingdom

Finland Poland USSR France Portugal Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Canada USA

Agricultural wheeled tractors — Three-point linkage — Part II: Category 1 N (Narrow hitch)

1 SCOPE

This International Standard specifies the requirements for the attachment of implements or equipment to the rear of narrow agricultural wheeled tractors by means of a three-link hitch in association with a power lift.

of the mast in a vertical plane. It is measured as the maximum and minimum heights of the lower hitch points above the ground between which a mast of height 360 mm can be adjusted to any inclination between the vertical and 10° to the vertical towards the rear.

2 FIELD OF APPLICATION TENDER STANDARD PREVIEW

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This International Standard applies to narrow agricultural it 5 DIMENSIONS⁴) wheeled tractors with a maximum power at the drawbar¹) up to 35 kW.

ISO 730-2:1979 5.1 Hitch points and zone around the hitch points

5.2 Lift, power lift, and levelling adjustments

3 REFERENCES

ISO 789/I, Agricultural tractors — Test procedures — Part I: Power tests.²⁾

ISO 730/I, Agricultural wheeled tractors — Three-point linkage — Part I: Categories 1, 2 and 3.

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09d5625bc6cd/iso-730-2The7dimensions concerning the hitch points shall be as given in table 2 and those concerning the zone around the hitch points shall be as given in table 1.

The ranges of lift, power lift and levelling adjustments shall

4 DEFINITIONS

4.1 General

See ISO 730/I.

4.2 Components of the linkage

See ISO 730/I.

4.3 Dimensional characteristics of the linkage

See ISO 730/I, except definition 21; for the purposes of the present document the following definition applies:

21 mast adjustment3): The usable range of movement

6 POWER LIFT CAPACITY

be as given in table 3.

A minimum lift force of 300 N for each drawbar power unit (kW) shall be available at a distance of 610 mm to the rear of the hitch points.

NOTE - The above mentioned value relates to 90 % of the hydraulic relief valve pressure setting and the recommended mast height.

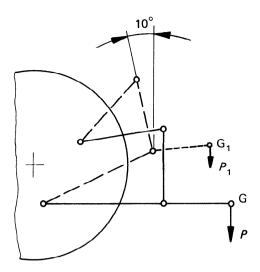
When determining the lift force, a minimum angle of 10° between the vertical and the mast shall be observed; see figure 1.

¹⁾ As given in ISO 789/I.

²⁾ At present at the stage of draft. (Revision of ISO/R 789-1968.)

³⁾ Adjustment of the mast controls the pitch of the implement. Specifying the mast adjustment to be provided enables the tractor designer to determine the minimum acceptable adjustment of the length of the top link in relation to the points of attachment of the linkage; it also permits the implement designer to determine the range of operating depths of the implement over which pitch adjustment can be obtained.

⁴⁾ Dimensions are based on the assumption that the tractor manufacturer's normal wheel equipment is fitted.



 $\label{eq:figure} \textit{FIGURE 1} - \textit{Minimum angle between the vertical and the mast}$

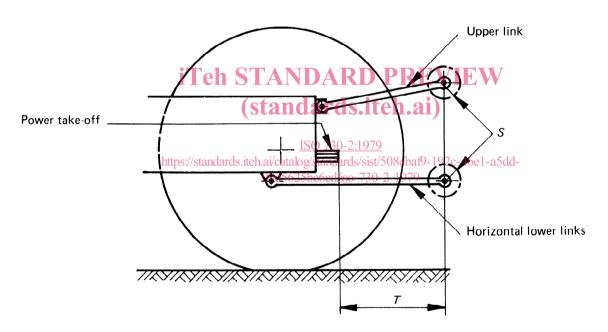
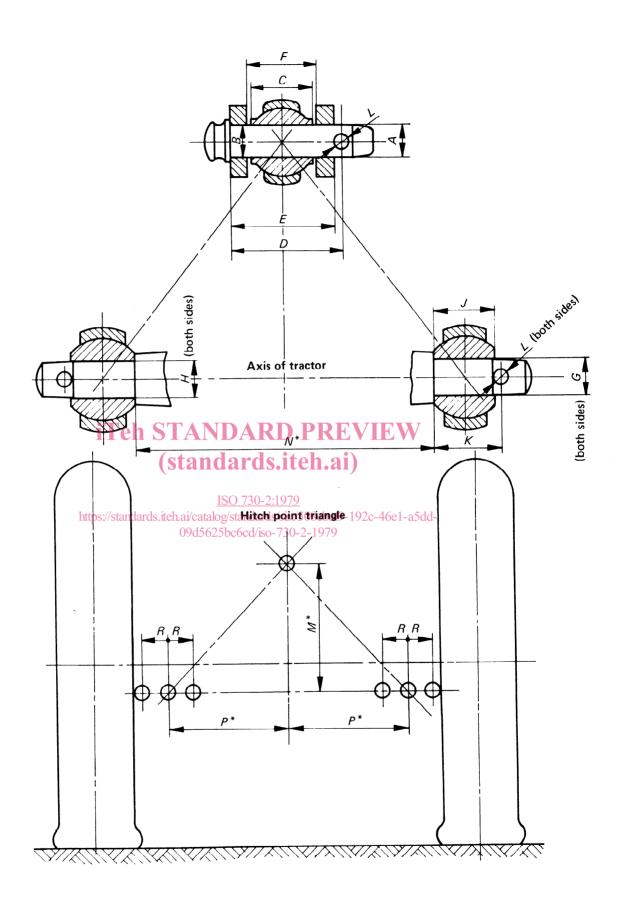


TABLE 1 — Dimensions concerning the zone around hitch points (see figure 2)

Dimensions in millimetres

Dimension	Dimensional characteristics	Category 1 N	
		min.	max.
S	Zone of clearance around each hitch point, spherical radius	45	-
Т	Distance from end of power take-off to centre of lower hitch point. Lower link in horizontal position	300	375



^{*} Recommended dimensions. It may be necessary to vary these dimensions in the case of specialized implements.

 ${\sf FIGURE\,3-Dimensions\ concerning\ the\ hitch\ points}$

TABLE 2 — Dimensions concerning hitch points (see figure 3)

TABLE 3 - Lift, power lift and adjustment ranges

Dimensions in millimetres

Dimo	ncione	in	mil	limetre	
Dime	nsions	ın	mu	IImetre	S

218**

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	Dime	nsions in n	illillille ti es	
Dimension	B	Category 1 N		
	Dimensional characteristics	min.	max.	
	Upper hitch points			
Α	Diameter of hitch pin	18,92	19	
В	Diameter of hitch pin hole	19,3	19,51	
С	Width of ball	_	44	
D	Linch pin hole distance	76	_	
E	Width between outer faces of yoke	_	69	
F	Width between inner faces of yoke	44,5		
	Lower hitch points			
G	Diameter of hitch pin	21,79	22	
Н	Diameter of hitch pin hole	22,4	22,73	
J	Width of ball	34,8	35,0	
κ	Linch pin hole distance*	39		
	Linch pin hole	eh S	TAN	
L	Diameter of linch pin hole for upper hitch pin	12	st <u>a</u> n	
М	Mass height https://si	360**	(min/catal	
N	Lower hitch point span		1.509d562	
-	Lateral distance from lower			

Reference in sub- clause 4.3	Dimensional characteristics	Category 1 N
14	Lower hitch points height	200 (max.)
15	Levelling adjustment range	75 (min.)
18	Power range	420 (min.)
19	Transport height (lower hitch point axis to be horizontal throughout)	600 (min.)
20	Lower hitch point clearance	100 (min.)
21	Mast adjustment Minimum heigth for highest position Maximum height for Iowest position	420 200

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hitch point to centreline

Lateral movement of lower

of tractor

hitch point

^{*} When lateral stays picking up on the lower hitch point holes are employed to limit side sway of the implement, the minimum dimension shall be 51 mm.

^{**} Recommended dimensions. It may be necessary to vary these dimensions in the case of specialized implements.

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