

ICS 65.060.10
CCS T 67



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 1592.2-2016

**Agricultural tractors -- Rear-mounted power take-off types 1, 2,
3 and 4 -- Part 2: Narrow-track tractors, dimensions for master
shield and clearance zone**

(English Translation)

Issued on: February 24, 2016

Implemented on: September 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

Table of Contents

Foreword...	3
1 Scope...	6
2 Normative references...	6
3 Terms and definitions...	7
4 Technical specifications...	7
5 General specifications...	8
6 Aperture size of PTO master shield and PTO clearance zone...	8

Foreword

GB/T 1592 "Agricultural tractors - Rear-mounted power take-off types 1, 2, 3 and 4" consists of the following three parts:

- Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone;
- Part 2: Narrow-track tractors, dimensions for master shield and clearance zone;
- Part 3: Main PTO dimensions and spline dimensions, location of PTO.

This Part is Part 2 of GB/T 1592.

This Part was drafted in accordance with the rules given in GB/T 1.1-2009.

This Part replaces GB/T 1592.2-2008 "Agricultural tractors - Rear-mounted power take-off types 1, 2 and 3 - Part 2: Narrow-track tractors dimensions for master shield and clearance zone".

Compared with GB/T 1592.2-2008, in addition to editorial modifications, the main technical differences in this Part are as follows:

- modified the standard name;
- changed "wheel track" to "minimum track" (see Clause 1 of this Edition, Clause 1 of Edition 2008);
- added "wheeled tractors powered by single-cylinder diesel engine" (see

Clause 1 and 3.3 of this Edition);

- modified power range of type A tractor PTO (see 3.2 of this Edition, 3.2 of Edition 2008);
- modified the requirements for rotation direction of tractor PTO (see 4.2 of this Edition, 4.2 of Edition 2008);
- added the method of determination for standard rotary speed of PTO (see

4.3 of this Edition);

- added that the clearance zone on the towing vehicle shall meet the requirements of ISO 6489-5:2011 (see Figure 1 of this Edition).

This Part uses redrafting method to modify and adopt ISO 500-2:2014

"Agricultural tractors - Rear-mounted power take-off types 1, 2 and 3 - Part 2: Narrow-track tractors, dimensions for master shield and clearance zone".

Agricultural tractors - Rear-mounted power take-off
types 1, 2, 3 and 4 - Part 2: Narrow-track tractors,
dimensions for master shield and clearance zone

1 Scope

This Part of GB/T 1592 specifies the dimensions for master shield and clearance zone for rear-mounted power take-off types 1, 2 of wheeled tractors powered by single-cylinder diesel engine and narrow-track (gauge) tractors of which the minimum track is less than or equal to 1150 mm.

This Part is applicable to rear-mounted power take-off of agricultural tractors (hereinafter referred to as the power take-off / PTO).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 1592.1-2016, Agricultural tractors - Rear-mounted power take-off types 1, 2, 3 and 4 - Part 1: General specifications, safety requirements,

dimensions for master shield and clearance zone (ISO 500-1:2014, MOD)

GB/T 3871.3, Agricultural tractors - Test procedures - Part 3: Power tests for power take-off (GB/T 3871.3-2006, ISO 789-1:1990, MOD)

GB/T 17126.2, Agricultural Tractors and Machinery - Power Take-Off Drive Shafts and Power-Input Connection - Part 2: Specification for Use of PTO Drive Shafts, And Position and Clearance of PTO Drive Line and PIC for Various Attachments (GB/T 17126.2-2009, ISO 5673-2:2005, IDT)

GB/T 19408.1, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 1: Dimensions of hitch-hooks (GB/T 19408.1-2003, ISO 6489-1:2001, IDT)

GB/T 19408.2, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 2: Specifications for clevis coupling 40 (GB/T 19408.2-2009, ISO 6489-2:2002, IDT)

GB/T 19408.3, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 3: Tractor drawbar (GB/T 19408.3-2009, ISO 6489-3:2004, IDT)

GB/T 19408.4, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 4: Dimensions of piton-type coupling (GB/T 19408.4-2009, ISO 6489-4:2004, IDT)

GB/T 19408.5, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 5: Dimensions of ball-type coupling device (GB/T 19408.5-2009, ISO 24347:2005, IDT)

ISO 6489-5:2011, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 5: Specifications for non-swivel clevis couplings

3 Terms and definitions

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

3.1 power take-off; PTO

an external drive shaft for transmitting rotational power to farm tool at the rear of a tractor

3.2 type A tractor

a tractor that the track is fixed or adjustable; the minimum wheel track of at least one axle is not more than 950 mm; the power of PTO determined according to GB/T 3871.3 is less than 29 kW

3.3 type B tractor

a tractor that the track is fixed or adjustable; the minimum track of at least one axle is greater than 950 mm but not greater than 1150 mm; AND a wheeled tractor powered by single-cylinder diesel engine

4.2 The direction of rotation of PTO is clockwise when viewed from behind the

tractor. Unless it is a PTO synchronized with the drive wheels, when the tractor is driving in reverse, it can rotate counterclockwise.

4.3 The standard speed of PTO can be reached within one or more speed

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