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

GB/T 21400.1-2008

**Traveler irrigation machines -- Part 1: Operational
characteristics and laboratory and field test methods**

绞盘式喷灌机 第1部分：运行特性及实验室和田间试验方法

(English Translation)

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Foreword

GB/T 21400 "irrigation machines -" is divided into two parts.

Operating characteristics and laboratory and field test methods;. --- Part 1

--- Part 2. Test methods hose and fittings.

This part of GB/T 21400 "irrigation machines -" Part 1, this part identical with ISO 8224-1:2003 "winch sprinkler Machine Part 1. operating characteristics and laboratory and field test methods "(in English).

This section is equivalent translation ISO 8224-1:2003.

For ease of use, this section made the following editorial changes.

--- "ISO 8224 this part" to "this Part";

--- Deleted international standards foreword;

--- Instead of using the decimal point as a decimal point ", ". ", ";

--- ISO 8224-1:2003 and other international standards referenced in our country has been adopted as a standard by our standards instead of the corresponding country International standards.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee on Agriculture machinery centralized.

This section drafted by. Chinese Academy of Agricultural Mechanization Sciences, Jiangsu University.

1 Scope

This section specifies the operating parameters and test methods for laboratory and field test methods for the winch sprinkler. It contains the following contents.

- Factory onboard product specification shall provide technical guidance materials;
- Irrigation machines - within the specified range of conditions of irrigation water distribution strip plots laboratory testing procedures, and a drive Maximum travel speed laboratory testing procedures for agencies under specified operating conditions can be achieved;
- Common under local field conditions, the amount of water on the predetermined strip of land distribution field trials procedures.

This section only applies to all types of irrigation machines - does not apply to center pivot, pan-type and other types of irrigation machines.

2 Normative references

The following documents contain provisions which, through reference GB/T 21400 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 18687-2002 Agricultural irrigation equipment non-rotating nozzle technology requirements and test methods (eqv ISO 8026:1995) GB/T 19795.2-2005 Agricultural irrigation equipment - Rotating sprinklers - Part 2. Test methods and uniform water distribution (ISO 7749-2:1990, MOD) Determination of uniformity of GB/T 19797-2005 Agricultural irrigation equipment and translation center pivot sprinkler water distribution (ISO 11545:2001, IDT)

3 Terms, definitions and symbols

The following terms, definitions and symbols (see Table 1) apply to this section.

Using a variety of winding technology, equipped with irrigation equipment (rotating nozzle, combination guns, rotary sprinklers and guns fitted with rotary or Non-rotating nozzle trusses, etc.) of the car through the field (toward or away from the pre-built field water points), followed by one of spray irrigation Filling machine.

NOTE: irrigation machines - there are three types, each having a frame and irrigation device may be mounted winch walking.

--- I type winch sprinkler, wherein the winch motor with water is fixed, and drag winch wound with water, so that the traction means small irrigation Car traveling --- often called "traction winch sprinkler hose" (see 3.2);

--- II type winch sprinkler, wherein the water-filled motor can walk winch supporting

irrigation apparatus winding winch cable and boxes with soft water Tubes --- often called "cable pulling winch sprinkler" (see 3.3);

--- III type winch sprinkler, which features may be walking down the winch support irrigation apparatus equipped with wheels on their own, and wound through the stationary pipe ---Often referred to as "self-propelled traction winch sprinkler hose machine" (see 3.4) --- also driven by the engine.

I type winch irrigation machines (see Figure 1). Wherein the stationary winch, winch and towing wound irrigation with water so that the traction means (Usually a gun) trolley travel.

GB/T 21400.1-2008/ISO 8224-1:2003