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

GB 10395.19-2010

**Agricultural and forestry machinery - Safety - Part 19: Centre
pivot and moving lateral types irrigation machines**

农林机械 安全 第19部分：中心支轴式和平移式喷灌机

(English Translation)

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Foreword

All technical contents of this Part are mandatory.

GB 10395 Agricultural and forestry machinery - Safety is divided into.

- Part 1. General rules;
- Part 2. Dump trailer;
- Part 3. Manure spreaders;
- Part 4. Forestry winches;
- Part 5. Power-driven soil-working equipment;
- Part 6. Equipment for crop protection;
- Part 7. Combine harvesters, forage and cotton harvesters;
- Part 8. Irrigation pumps and machines;
- Part 9. Equipment for sowing, planting and distributing fertilizer;
- Part 10. Walk-behind powered rotary tillers;
- Part 11. Power lawn mower;
- Part 12. Portable powered hedge-trimmers;
- Part 13. Powered walk-behind and hand-held lawn trimmers and lawn edge trimmers;
- Part 14. Powered shredders and chippers;

- Part 15. Powered edgers with rigid cutting means;
- Part 16. Potato harvesters;
- Part 17. Beet harvesters.
- Part 18. Reel machines for irrigation;
- Part 19. Centre pivot and moving lateral types irrigation machines;
- Part 20. Pick-up balers;
- Part 21. Tedders swath rakes with powered tools;
- Part 22. Front loaders;
- Part 23. Silos stationary unloaders for round silos;
- Part 24. Slurry tankers;

...

This Part is part 19 of GB 10395 Agricultural and forestry machinery - Safety. It modifies and adopts EN 909.1998 Agricultural and forestry machinery - Centre pivot and moving lateral types irrigation machines - Safety (English version).

This Part is redrafted in accordance with EN 909.1998. The technical differences with EN 909.1998 are.

-QUOTE those national standards which adopt international standards or European standards, and which do not equivalently adopt international standards or European standards.

To use it easily, there are some editorial changes to EN 909.1999 as follows.

- a) CHANGE "this European standard" to "this Part";
- b) DELETE the foreword and introduction of EN 909.1999;
- c) MODIFY the scope of EN 909.1999;
- d) USE decimal point "." to replace comma "," at where it is regard as decimal point;
- e) DELETE Annex ZA "Relationship between this standard and European EC Directives" of EN 909.1999.

Annex A of this Part is normative.

This Part was proposed by China Machinery Industry Federation.

This Part shall be centralized by National Technical Committee on Agricultural Machinery of Standardization Administration of China (SAC/TC 201).

Drafting organizations of this Part. Chinese Academy of Agricultural Mechanization Sciences, and Research Center of Fluid Machinery Engineering and Technology.

1 Scope

This Part of GB 10395 specifies the safety requirements and their verification for the design and manufacture of center pivot and moving lateral types irrigation machines that are electrically powered. It also specifies that the manufacturer shall provide safety operation information.

NOTE Figures 1 to 5 give illustrations of these machines.

This Part applies primarily to centre pivot and moving lateral types irrigation machines.

Hazards due to the use of the pump associated with center pivot and moving lateral types irrigation machines (Hereafter referred to as irrigation machines) are not dealt with. Hazards induced by the use of these machines for pesticide products and liquid fertilizer application are also not dealt with.

Environmental aspects have not been considered in this Part.

2 Normative references

The provisions in following documents become the provisions of this Part through reference in this Part of GB 10395. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Part. However, parties who reach an agreement based on this Part are encouraged to study if the latest versions of these documents are applicable.

For undated references, the latest edition of the referenced document applies.

GB 4208 Degrees of protection provided by enclosure (IP code)(GB 4208-2008, IEC 60529:2001, IDT)

GB 5226.1 Electrical safety of machinery - Electrical equipment of machines - Part

1 General requirements (GB 5226.1-2008, IEC 60204-1.2005, IDT)

GB 10395.1-2009 Agricultural and forestry machinery - Safety - Part 1.General

Table A.2 List of hazards due to mobility

Hazards Solutions given by this Part

A.12 Inadequate lighting of moving/working area not relevant

A.13 Hazards due to sudden movement, instability, etc. not dealt with

A.14

Inadequate/ unergonomic design of driving/ operating
position

A.14.1

Hazards due to dangerous environments (contact with
moving parts, exhaust gases etc.)
not relevant

A.14.2 inadequate visibility from drivers/operators position not relevant

A.14.3 inadequate seat/seating (SIP) not relevant

A.14.4 Inadequate/unergonomic design/positioning of controls not relevant

A.14.5 starting/moving of machinery not relevant

A.14.6 Traffic of machinery not relevant

A.14.7 Movement of pedestrian controlled machinery not relevant

A.15 Mechanical hazards -

A.15.1 Hazards to exposed persons due to incontrolled movement dealt with in 4.2, 4.4

A.15.2 Hazards due to break-up and/or ejection of parts not relevant

A.15.3 Hazards due to rolling over (deflection limiting volume. DVL) not relevant

A.15.4 hazards due to falling objects (DVL) not relevant

A.15.5 inadequate means of access not relevant

A.15.6

Hazards caused due to towing, coupling, connecting,
transmission, etc.