

ICS 65.040.10  
CCS B 92



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

**GB/T 32240-2015**

---

**Automatic milking installations -- Requirements and testing**

自动挤奶设备 要求及测试方法

**(English Translation)**

**Issued on: December 10, 2015**

**Implemented on: July 1, 2016**

---

**Issued by: Standardization Administration of China**

## Table of Contents

Foreword

1 Scope

2 Normative references

### Foreword

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

This standard is identical with ISO 20966:2007 "Automatic milking equipment requirements and test methods." Correspondence between the consistency of the standards of international documents and normative references of the following documents.

--- GB/T 3766-2001 Hydraulic System General technical conditions (ISO 4413:1998, EQV);

--- GB/T 5013.1-2008 rated voltage of 450/750V and below rubber insulated cables - Part 1. General To Seek (IEC 60245-1:2003, IDT);

--- GB/T 5023.1-2008 rated voltage of 450/750V and below PVC insulated cables - Part 1. General requirements (IEC 60227-1:2007, IDT);

--- GB/T 5981-2011 milking equipment - Vocabulary (ISO 3918:2007, IDT);

--- GB/T 7932-2003 Pneumatic system General technical conditions (ISO 4414:1998, IDT);

--- GB/T 8186-2011 milking equipment structure and properties (ISO 5707:2007, IDT);

--- GB/T 9480-2001 agricultural and forestry tractors and machinery, lawn and garden equipment manuals - Regulation Then (ISO 3600:1996, EQV);

--- GB/T 12668.1-2002 Adjustable speed electrical power drive systems - Part 1. General requirements for low-voltage DC speed electric drivetrain Rating system requirements (IEC 61800-1:1997, IDT);

--- GB 14048.4-2010 Low-voltage switchgear and control equipment - Part 4-1. Contactors and motor starters electromechanical Contactors and motor starters (including motor protection) (IEC 60947-4-1:2009, IDT);

--- GB 14048.5-2008 Low-voltage switchgear and control equipment - Part 5-1. Control circuit devices and switching elements Machine Electrical control circuit devices (IEC 60947-5-1:2003, MOD);

--- GB 19891-2005 Safety of machinery designed for hygiene requirements (ISO 14159:2002, MOD);

--- GB/T 25078.1-2010 Acoustics low-noise machinery and equipment design and implementation of the recommendations - Part 1. Planning (ISO/T R11688-1.1995, IDT);

--- GB/T 25078.2-2010 Acoustics low-noise machinery and equipment design and implementation of the recommendations - Part 2. Low Noise Design Matter Doctrinal Foundation (ISO/T R11688-2.1998, IDT).

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee (SAC/TC201) Agricultural machinery centralized.

This standard was drafted. Chinese Academy of Agricultural Mechanization Sciences, Ministry of Agriculture, Agricultural Machinery Testing Station.

Drafters of this standard. Emperor before entering, Chen Fengqi, Lin Yuhan, Jin Hongwei, Zhang Jian.

Automatic milking equipment requirements and test methods Warning. Some of the test methods specified in this standard may result in a hazardous situation occurs. Operations personnel to perform tests of this standard shall be opened Show the type of work training. Automatic milking equipment consumers are responsible for monitoring the implementation of national regulations and safety and health requirements.

## 1 Scope

This standard specifies automatic milking equipment (AMI) structural requirements, in addition to the requirements of ISO 5707 and ISO 6690 are described, but also includes Specific safety, health, and performance requirements and test methods.

This standard does not contain requirements for the design of milking equipment installation site.

## 2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 4208-2008 housing protection (IP Code) (IEC 60529:2001, IDT) GB 5226.1-2008 Safety of machinery - Electrical machinery and electrical equipment - Part 1. General requirements (IEC 60204-1:2005, IDT) GB/T 15706.1-2007 Safety of machinery - Basic concepts, general principles for design - Part 1. Basic terminology and square Method (ISO 12100-1:2003, IDT) GB/T 15706.2-2007 Safety of machinery - Basic concepts, general principles for design - Part 2. Technical principles (ISO 12100-2:2003, IDT) ISO 3600 Tractors and machinery for agriculture and forestry, powered lawn and garden equipment -

Operator 's manuals (Tractorsmachinery foragricultureandforestry,  
poweredlawnandgardenequipment-Operator'smanuals-Contentand presentation) ISO 3918  
milking apparatus vocabulary (Milkingmachineinstalations-Vocabulary) ISO 4413 General  
technical conditions for hydraulic power systems  
(Hydraulicfluidpower-Generalrulesrelatingtosys-tems) ISO 4414 pneumatic systems  
General technical conditions (Pneumaticfluidpower-Generalrulesrelatingtosystems) ISO  
5707 milking equipment Structure and Properties  
(Milkingmachineinstalations-Constructionandperform-ance) ISO/T R11688-1 low - noise  
machinery and equipment design and implementation of the recommendations - Part 1.  
Planning  
(Acoustics-Recom-mendedpracticeforthedesignoflow-noisemachineryandequipment-Part 1.  
Planning) ISO/T R11688-2 low - noise machinery and equipment design and  
implementation of the recommendations Part 2. introduction to physics of low-noise design  
(Acoustics-Recommendedpracticeforthedesignoflow-noisemachineryandequipment-Part 2.  
In-troductiontothephysicsoflownoisedesign) ISO 13852:1996 Safety of machinery - Safety  
distances to prevent danger zones being reached on the lower limbs  
(Safetyofmachinery-Safety distancestopreventdangerzonesbeingreachedbytheupperlimbs)  
ISO 14159 Safety of machinery designed for hygiene requirements  
(Safetyofmachinery-Hygienerequirementsfor thedesignofmachinery) IEC 60227-1 rated  
voltage of 450/750V or less PVC insulated cables and Part 1. General requirements  
(Polyvinyl