

# Textile machinery and accessories — Yarn feeders and yarn control for knitting machines —

## Part 1: Vocabulary

ICS 01.040.59; 59.120.40

# National foreword

This British Standard reproduces verbatim ISO 13990-1:2006 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee TCI/33, Textile machinery, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

## Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

## Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to iv, pages 1 to 20, an inside back cover and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

## Amendments issued since publication

| Amd. No. | Date | Comments |
|----------|------|----------|
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 10 February 2006

© BSI 10 February 2006

# INTERNATIONAL STANDARD

**ISO**  
**13990-1**

First edition  
2006-01-15

---

---

## **Textile machinery and accessories — Yarn feeders and yarn control for knitting machines —**

### **Part 1: Vocabulary**





## Contents

Page

|                                                                                                                 |           |
|-----------------------------------------------------------------------------------------------------------------|-----------|
| <b>Foreword</b> .....                                                                                           | <b>v</b>  |
| <b>Scope</b> .....                                                                                              | <b>1</b>  |
| <b>Terms and definitions</b> .....                                                                              | <b>2</b>  |
| <b>Annex A</b> (informative) <b>Example for arrangement of yarn feeders on circular knitting machines</b> ..... | <b>18</b> |
| <b>Alphabetical index</b> .....                                                                                 | <b>20</b> |
| <b>French alphabetical index</b> (Index alphabétique).....                                                      | <b>21</b> |
| <b>German alphabetical index</b> (Alphabetisches Stichwortverzeichnis) .....                                    | <b>22</b> |

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13990-1 was prepared by Technical Committee ISO/TC 72, *Textile machinery and machinery for dry-cleaning and industrial laundering*, Subcommittee SC 3, *Machinery for fabric manufacturing including preparatory machinery and accessories*.

This first edition of ISO 13990-1, together with ISO 13990-2 and ISO 13990-3, cancels and replaces ISO 13990:1996, of which it constitutes a technical revision.

ISO 13990 consists of the following parts, under the general title *Textile machinery and accessories — Yarn feeders and yarn control for knitting machines*:

- *Part 1: Vocabulary*
- *Part 2: Connecting dimensions for yarn feeders and yarn control devices*
- *Part 3: Dimensions for connecting and interconnection cables*

# **Textile machinery and accessories — Yarn feeders and yarn control for knitting machines —**

## **Part 1: Vocabulary**

### **Scope**

This part of ISO 13990 establishes a vocabulary of basic terms relating to yarn feeders and yarn control of single thread for knitting machines.

The figures illustrate solely the working principles of the various types of yarn feeder and yarn control. They do not represent the only, or even the most common, designs.

**NOTE** In addition to terms and definitions used in two of the three official ISO languages (English and French), this part of ISO 13990 gives the equivalent terms and definitions in the German language; these are published under the responsibility of the member body for Germany (DIN). However, only the terms and definitions given in the official languages can be considered as ISO terms and definitions.

## Terms and definitions

### 1

#### **yarn feeder**

device, positioned in the yarn path between bobbin and needles, for feeding and/or delivering yarn

NOTE The term “feeder” here constitutes the technical generic term for yarn feeding devices/units.

### 1.1

#### **positive feeder**

yarn feeder for delivering predetermined lengths of yarn

### 1.2

#### **passive feeder**

yarn feeder used to support the yarn run-in and/or the feeding of a length of yarn as a function of the demand of the needles and/or the yarn tension

### 1.3

#### **yarn tension-controlled thread feeder**

yarn feeder that delivers yarn maintaining a predetermined parameter of the yarn tension

## 2 Types of yarn feeder

### 2.1

#### **nip roller feeder**

positive feeder for delivering yarn by catching and carrying it between two contrarotating rollers

See Figure 1.

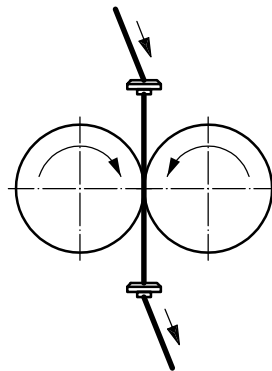


Figure 1 — Nip roller feeder

### 2.2

#### **disc nip roller feeder**

positive feeder for delivering yarn by catching and carrying it between a roller and a disc

See Figure 2.