TECHNICAL REPORT

ISO/TR 8865

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Mining — Guidance on methods of verifying dimensions of sprocket assemblies for chain conveyors

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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.

The main task of ISO technical committees is to prepare International Standards. In exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

— type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;

— type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;

— type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 8865, which is a Technical Report of type 3, was prepared by Technical Committee ISO/TC 82, *Mining*, Sub-Committee SC 2, *Components of coalface machinery using high-tensile round link chains*.

International Standard ISO 5613 : 1984 covering drive sprocket assemblies for mining chain conveyors specifies requirements for a range of sprocket assemblies for use with twin outboard assemblies. These assemblies incorporate sprocket rings designed to accept chains complying with ISO 610, shackle type connectors complying with ISO 1082 and scraper bars complying with ISO 5612.

The dimensions of the component parts of the sprocket assembly are laid down in ISO 5613 and these dimensions have to be verified in order to check compliance with the standard. It is stated that the methods to be used for the verification of the dimensions shall be agreed between the purchaser and the manufacturer (ISO 5613 : 1984, 4.3). A number of the dimensions specified, in particular those relating to the tooth profile of the sprocket, cannot be measured by the direct application of conventional measuring instruments and it was decided to give some guidance on the special techniques involved.

The member bodies participating in the work of ISO/TC 82/SC 2 studied the problem and it was found that a number of varying methods and instruments were used, all equally satisfactory if the appropriate dimensions were controlled to ensure compatibility with the other components of the chain assembly.

The committee therefore came to the conclusion that no one method or instrument need be adopted as the "standard" method but guidance would be helpful on certain general principles and essential features of the checking gauges. This document is therefore published in the form of a Technical Report rather than an International Standard.

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