INTERNATIONAL STANDARD

ISO 12858-3

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Optics and optical instruments — Ancillary devices for geodetic instruments —

Part 3: Tribrachs

Optique et instruments d'optique — Équipements annexes pour les instruments géodésiques —

Partie 3: Embases



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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 Maison 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 contrittees 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 applying 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 12858-3 was prepared by Technical Committee ISO/TC 172, Optics and photonics, Subcommittee SC 6, Geodetic and surveying instruments.

ISO 12858 consists of the following parts, under the general title Optics and optical instruments — Ancillary devices for geodetic instruments:

— Part 1: Invar levelling staffs

— Part 2: Tripods

— Part 3: Tribrachs

Introduction

ISO 12858 consists of a series of parts which detail specifications for ancilliary devices to be used with geodetic instruments in surveying. This third part specifies requirements for Tribrachs.

Additional parts, overing further ancillary devices, may be added to ISO 12858 as the need arises.

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Optics and optical instruments — Ancillary devices for geodetic instruments —

Part 3:

Tribrachs

1 Scope

This part of ISO 12858 specifies the most important requirements of tribrachs used in geodesy for the connection of the instrument's body with its base.

The requirements in this part of ISO 12858, however, do not guarantee the full interchangeability of the instrument's body with tribrachs of different manufacturers, but give the detailed specifications of the clamp system to ensure the reliable mounting and clamping without prejudicing their performance and their usefulness. There are mainly two types of tribrach in use, categorized in this part of ISO 12858 as Types W and Z.

This part of ISO 12858 is applicable to tribrachs which are used for levels, theodolites, tacheometers, GPS equipment, EDM instruments and in combination with targets, reflectors, antennae etc.

2 Normative references

The following referenced documents are indispensable to the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2768-1, General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications

ISO 9849, Optics and optical instruments — Geodetic and surveying instruments — Vocabulary

ISO 12858-2:1999, Optics and optical instruments — Ancillary devices for geodetic instruments — Tripods

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9849 apply.

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