

INTERNATIONAL STANDARD ISO 10303-105:1996 TECHNICAL CORRIGENDUM 2

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Industrial automation systems and integration — Product data representation and exchange —

Part 105:

Integrated application resource: Kinematics

TECHNICAL CORRIGENDUM 2

Systèmes d'automatisation industrielle et intégration — Représentation et échange de données de produits — Partie 105: Ressource d'application intégrée: Cinématique

RECTIFICATIF TECHNIQUE 21

Technical Corrigendum 2 to International Standard ISO 10303-105:1996 was prepared by Technical Committee ISO/TC 184, *Industrial automation systems and integration*, Subcommittee SC 4, *Industrial data*.

Introduction

This document corrects ISO 10303-105:1996, Product data representation and exchange - Part 105: Integrated application resource: Kinematics. The corrected document supersedes ISO 10303-105:1996 as amended by ISO 10303-105:1996/Cor. 1:2000.

The purpose of the modifications to the text of ISO 10303-105:1996 is to correct errors in the EXPRESS definitions likely to cause compilation problems, to replace the URL in the annex for the computer-interpretable EXPRESS, and to replace the object identifier for the document and the modified schema.

ICS 25.040.40

Ref. No. ISO 10303-105:1996/Cor.2:2000(E)

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Modifications to the text of ISO 10303-105:1996

Clause 5, p. 6

The EXPRESS specification for the kinematic_structure_schema contained logical errors in the reference from the geometry_schema. Remove the following:

```
REFERENCE FROM geometry schema
    (axis2 placement 3d,
     cartesian transformation operator 3d,
     curve,
     direction,
     geometric representation context,
     normalise,
     point,
     point_on_curve,
     point_on_surface,
     surface,
     rectangular_trimmed_surface,
     trimmed curve);
Replace with the following:
REFERENCE FROM geometry schema
    (axis2 placement 3d,
     cartesian transformation operator 3d,
     curve,
     direction,
     geometric representation context,
     geometric representation item,
     normalise,
     point,
     point on curve,
     point on surface,
     surface,
     rectangular trimmed surface,
     trimmed curve);
```

Clause 5.4.6, p. 17

The EXPRESS specification for mechanism_base_placement had an additional group qualifier for **WR3**: that is not allowed. Remove the EXPRESS specification and replace with the following:

EXPRESS specification:

Clause 5.4.12, p. 21

The EXPRESS specification for the kinematic_link_representation had an additional group qualifier for the link_frame attribute that is not allowed. Remove the EXPRESS specification and replace with the following:

EXPRESS specification:

```
*)
ENTITY kinematic_link_representation
  SUBTYPE OF (representation);
  SELF\representation.context of items :
            geometric representation context;
DERIVE
  link frame
                                 geometric representation context
                               := SELF\representation.context of items;
TNVERSE
  link representation relation:
        kinematic_link_representation_relation FOR geometric aspects;
WHERE
  WR1: SIZEOF (QUERY (item <* SELF\representation.items |
               NOT (('KINEMATIC STRUCTURE SCHEMA.RIGID PLACEMENT' IN
                      TYPEOF (item))
                    OR
 ('GEOMETRY SCHEMA.CARTESIAN TRANSFORMATION OPERATOR 3D' IN
                      TYPEOF (item)))) = 0;
END ENTITY;
(*
```

Clause 5.4.16, p. 24

The EXPRESS specification for the kinematic_frame_background_representation_association had an additional group qualifier for **WR3**: that is not allowed. Remove the EXPRESS specification and replace with the following:

EXPRESS specification: