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

GB/T 19903.12-2008

**Industrial automation systems and integration -- Physical
device control -- Data model for computerized numerical
controllers -- Part 12: Process data for turning**

工业自动化系统与集成 物理设备控制 计算机数值控制器用的数据模型 第12部分
： 车削用工艺数据

(English Translation)

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Foreword

GB/T 19903 "Industrial automation systems and integration - Physical device control data model for computerized numerical controllers of" equivalent mining with ISO 14649. GB/T 19903 plans to develop the following sections.

Part 1. Overview and basic principles (ISO 14649-1) Part 10. General process data (ISO 14649-10) Part 11. Process data for milling (ISO 14649-11) Part 12. Process data for turning (ISO 14649-12) Part 111. milling cutter (ISO 14649-111) Part 121. Turning tools (ISO 14649-121) Turning the main content of the model described in this section, the definition of the representative of a turning operation of processing characteristics and process-specific process data classes type. This model does not include the basic types of representation, executable object and all common processes. For details, see information GB/T 16656 Fundamentals series of standards and GB/T 19903.10. Described machining data using ISO 10303-11:2004 definition EXPRESS Language, data encoded using GB/T 16656.21-2008.

2 Normative references

The following documents contain provisions which, through GB/T 19903 reference in this text, constitute provisions of this part. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 16656.21-2008 Industrial automation systems and integration - Product data representation and exchange - Part 21. Implementation methods.

Plain text encoding of the exchange structure (ISO 10303-21:2002, IDT) GB/T 19903.1-2005 Industrial automation systems and integration - Physical device control data used in computer numerical controller module Type Part 1. Overview and basic principles (ISO 14649-1:2003, IDT) GB/T 19903.10-2006 Industrial automation systems and integration - Physical device control data used in computer numerical controller module Type Part 10. General process data (ISO 14649-10:2004, IDT) GB/T 19903.11-2008 Industrial automation systems and integration - Physical device control data used in computer numerical controller module Type - Part 11. Process data for milling (ISO 14649-11:2004, IDT) ISO 10303-11:2004 Industrial automation systems and integration - Product data representation and exchange - Part 11. Description methods. EX-PRESS Language Reference Manual ISO 10303-224:2001 Industrial automation systems and integration - Product data representation and exchange Part 224. Application protocol. Lee with the processing characteristics of process planning mechanical product definition (referred AP224) ISO 14649-121:2005 Industrial automation systems and integration -

Physical device control - Data model for computerized numerical controllers Part 121. lathe tool

3 Terms and Definitions

GB/T 19903.10-2006 established and the following terms and definitions apply to GB/T 19903 in this section.

GB/T 19903.12-2008/ISO 14649-12:2005