From Torque Control to Tightening Assurance System

Tohnichi’s Torque Assurance System advises the users how to tighten bolts properly and how to eliminate various mistakes which occur during bolt tightening operations.

Total Tightening Management System, which completes tightening assurance, will be created through cooperation of your staﬀs. Each component and product which consists of the system can be sold separately. The components and products are described in the catalog.

Characteristic factors (4M’s) of defects in bolt tightening

- 1. MAN (tightening operator human error)
  - Missed tightening
  - Improper tightening tool usage
- 2. METHOD (Improper tightening speciﬁcation)
  - Improper tightening value speciﬁcation
  - Improper tightening procedure
  - Improper tightening tool selection
- 3. MACHINE (Improper tightening equipment)
  - Inaccuracy
  - Mechanical failure
- 4. MATERIAL (Improper screw part material)
  - Part out of tolerance
  - Defective part material
  - Insuﬃcient screw part lubricant

Data Management System

- Data Transfer
- Data Management System for Backup
- Data Management System for Manual Tools
- Data Management System for Pneumatic Tools

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