

TDMS

Tightening Data Management Software

Tightening Data Management Software

- For process control of tightening or inspection of each portion and fastener
- Connectable with Tohnichi products equipped with Bluetooth® module
- Statistic processing [N], [X-bar], [σ], [cp], and [cpk] for analysis of quality trends
- Ver 3.0 released, added angle data management function

TDMS Software Operation Example

Sample Master

No.	Portion Name	Spindle No.	Number of Spindle	TI Low	TI High	Measured Torque	Judgment
1	RH Mount BKTXLH E/G Mount Insulator	1	1	15.0	20.0	17.3	OK
2	RH Mount BKTXRH E/G Mount Insulator	1	1	10.0	15.0	0.0	
3	Fr Hubnuts LH	1	2	12.0	17.0	0.0	
3	Fr Hubnuts LH	2	2	12.0	17.0	0.0	
4	Fr Hubnuts RH	1	2	12.0	17.0	0.0	
4	Fr Hubnuts RH	2	2	12.0	17.0	0.0	

No. 2 Portion RH Mount BKTXRH E/G Mount Insulator

Spindle No.	Number of Spindle	TI Low	TI High	Measured Torque	Judgment	Date	Time
1	1	10.0	15.0	0.0			

ALL	<	<<	>	>>	>	
ALL	Not Insufficient	OK	NG	SKIP	SKIP	EXIT

Operation screen

M-Mode: Measurement

Simplex communication



T-Mode: Tightening

Duplex communication



Refer to page 37 for CEM3-BTS, CEM3-BTD functions

TDMS shows the correct sequence of each operation process, including the upper and lower torque value for each fastener, then operator simply follows the instruction sequences shown on the screen.

The collected data is linked to each fastener automatically eliminating the need to manually transcribe the information and prevents human error.

In tightening T-Mode with CEM3-G-BTD, the software wirelessly transmits correct upper and lower limit according to each torque specification, so tightening management for various torque values is easy to control.

TDMS Software Data Base

A	B	C	D	E	F
1	Item Name	Sample Master			
2					
3	Portion Name	Number of Spindle	TI Low	TI High	Tool No.
4	RH Mount BKTXLH E/G Mount Insulator	1	15.0	20.0	123456A
5	RH Mount BKTXRH E/G Mount Insulator	1	10.0	15.0	123456A
6	Fr Hubnuts LH	2	12.0	17.0	654321B
7	Fr Hubnuts RH	2	12.0	17.0	654321B

Portion Master Editing Excel Screen

Before use, input each parameters in Portion Master Excel file and save onto the PC where the TDMS is installed and then establish the Bluetooth communications with torque wrenches.

Measurement Data Master Excel

Measured data can be output by Excel format. TDMS performs statistic processing for each portion and fastener such as [N], [X-bar], [σ], [cp], and [cpk] for analysis of quality trends.

Customized software is available upon request with additional fees.

Consult with Tohnichi for assistance.

Available Bluetooth® products for TDMS

M-Mode : Measurement operation

- CEM3-G-BTS
- CTB2-G-BT
- STC2-G-BT

T-Mode: Tightening operation

- CEM3-G-BTD, CEM3-G-BTA
- STC2-G-BT



STC2-G-BT



CTB2-G-BT

Model	Description	Language
TDMS	Software only	Japanese
TDMS-E		English
TDMS-C		Chinese

Note

1. Software installation is allowed on a single PC at one time.
2. Connectable with up to 7 Bluetooth® devices when using.
3. Excel® and Windows® is a trademark registration of Microsoft Co., Ltd.
4. Bluetooth® is a trademark registration of Bluetooth SIG, Inc.
5. CEM3-G-BTA and ST3-G-BT angle output can be handled from the version 3.0

Standard Accessories

USB flash drive for portion master file management

System Requirements	
Operating System	Windows® XP, 7, 8, 8.1, 10