PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

Tohnichi America Corp

1303 Barclay Blvd, Buffalo Grove, IL 60089

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Mechanical Calibration

(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
October 16, 2023	December 11, 2025	February 29, 2028

Accreditation No.:	*Certificate No.:*
117486	L25-942

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

Tohnichi America Corp

1303 Barclay Blvd, Buffalo Grove, IL 60089
Contact Name: Chris Schmidt Phone: 847-947-8560

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Mechanical	Torque Transducers	2 cN•m to 60 cN•m	0.14 % + 0.013 cN•m	Calibration Kit TDTCL	CIS-03 TDT3-G	F1, F3	F
Mechanical	Torque Transducers	3 ozf•in to 80 ozf•in	0.14 % + 0.018 ozf•in	Calibration Kit TDTCL	CIS-03 TDT3-G	F1, F3	F
Mechanical	Torque Transducers	0.2 lbf•in to 5 lbf•in	0.14 % + 0.001 1 lbf•in	Calibration Kit TDTCL	CIS-03 TDT3-G	F1, F3	F
Mechanical	Torque Transducers	20 cN•m to 600 cN•m	0.2 % + 0.36 cN•m	Calibration Kit TDTCL	CIS-03 TDT3-G	F1, F3	F
Mechanical	Torque Transducers	30 ozf•in to 800 ozf•in	0.2 % + 0.51 ozf•in	Calibration Kit TDTCL	CIS-03 TDT3-G	F1, F3	F
Mechanical	Torque Transducers	0.2 lbf•in to 50 lbf•in	0.2 % + 0.032 lbf•in	Calibration Kit TDTCL	CIS-03 TDT3-G	F1, F3	F
Mechanical	Torque Transducers	2 N•m to 20 N•m	0.17 % + 0.001 5 N•m	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	200 cN•m to 2 000 cN•m	0.17 % + 0.015 cN•m	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	18 lbf•in to 180 lbf•in	0.17 % + 0.013 lbf•in	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	10 N•m to 100 N•m	0.15 % + 0.001 N•m	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	88 lbf•in to 880 lbf•in	0.15 % + 0.008 8 lbf•in	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	7.3 lbf•ft to 73 lbf•ft	0.15 % + 0.000 7 lbf•ft	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	20 N•m to 200 N•m	0.16 % + 0.004 N•m	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	170 lbf•in to 1 700 lbf•in	0.16 % + 0.035 4 lbf•in	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	15 lbf•ft to 150 lbf•ft	0.16 % + 0.002 9 lbf•ft	Calibration Kit DOTCL	CIS-04 DOTE	F1, F3	F
Mechanical	Torque Transducers	4 N•m to 100 N•m	0.16 % + 0.062 N•m	Calibration Kit TCCTCL2 CH2	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	400 cN•m to 10 000 cN•m	0.16 % + 6.2 cN•m	Calibration Kit TCCTCL2 CH2	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	36 ozf•in to 14 161 ozf•in	0.16 % + 8.779 9 ozf•in	Calibration Kit TCCTCL2 CH2	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	36 lbf•in to 880 lbf•in	0.16 % + 0.549 lbf•in	Calibration Kit TCCTCL2 CH2	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	3 lbf•ft to 74 lbf•ft	0.16 % + 0.046 lbf•ft	Calibration Kit TCCTCL2 CH2	CIS-02 TCC500N2-G	F1, F3	F

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Mechanical	Torque Transducers	20 N•m to 500 N•m	0.18 % + 0.1 N•m	Calibration Kit TCCTCL2 CH1	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	2 000 cN•m to 50 000 cN•m	0.18 % + 10 cN•m	Calibration Kit TCCTCL2 CH1	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	2 832 ozf•in to 70 806 ozf•in	0.18 % + 14.16 ozf•in	Calibration Kit TCCTCL2 CH1	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	180 lbf•in to 4 400 lbf•in	0.18 % + 0.89 lbf•in	Calibration Kit TCCTCL2 CH1	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	15 lbf•ft to 369 lbf•ft	0.18 % + 0.07 lbf•ft	Calibration Kit TCCTCL2 CH1	CIS-02 TCC500N2-G	F1, F3	F
Mechanical	Torque Transducers	2 N•m to 50 N•m	0.14 % + 0.01 N•m	Calibration Kit TFTCL-Ch3	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	17.7 lbf•in to 442.5 lbf•in	0.14 % + 0.089 lbf•in	Calibration Kit TFTCL-Ch3	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	2 lbf•ft to 37 lbf•ft	0.14 % + 0.007 lbf•ft	Calibration Kit TFTCL-Ch3	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	20 N•m to 500 N•m	0.18 % + 0.18 N•m	Calibration Kit TFTCL-Ch2	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	177 lbf•in to 4 425 lbf•in	0.18 % + 1.59 lbf•in	Calibration Kit TFTCL-Ch2	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	20 lbf•ft to 370 lbf•ft	0.18 % + 0.133 lbf•ft	Calibration Kit TFTCL-Ch2	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	100 N•m to 2 100 N•m	0.22 % + 1.3 N•m	Calibration Kit TFTCL-Ch1	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	885 lbf•in to 18 587 lbf•in	0.22 % +11.51 lbf•in	Calibration Kit TFTCL-Ch1	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	100 lbf•ft to 1 500 lbf•ft	0.22 % + 0.96 lbf•ft	Calibration Kit TFTCL-Ch1	CIS-01 TF2000N	F1, F3	F
Mechanical	Torque Transducers	2 N•m to 10 N•m	0.17 % + 0.008 8 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F

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Mechanical	Torque Transducers	18 lbf•in to 88 lbf•in	0.17 % + 0.077 8 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	284 ozf•in to 1 420 ozf•in	0.17 % + 1.25 ozf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	4 N•m to 50 N•m	0.049 % + 0.023 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	36 lbf•in to 440 lbf•in	0.049 % + 0.203 5 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	568 ozf•in to 7 100 ozf•in	0.049% + 3.25 ozf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	10 N•m to 200 N•m	0.052 % + 0.056 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	88 lbf•in to 1 750 lbf•in	0.052 % + 0.496 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	7 lbf•ft to 145 lbf•ft	0.052% + .041 lbf•ft	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	1 420 ozf•in to 28 400 ozf•in	0.052% + 7.930 ozf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	100 N•m to 1 000 N•m	0.36 % + 0.24 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	900 lbf•in to 4 400 lbf•in	0.36 % + 2.12 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	75 lbf•ft to 365 lbf•ft	0.36% + 0.18 lbf•ft	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	0.5 N•m to 20 N•m	0.017 % + 0.007 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	5 lbf•in to 174 lbf•in	0.017 % + 0.061 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	5 N•m to 200 N•m	0.03 % + 0.03 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	50 lbf•in to 1 740 lbf•in	0.03 % + 0.24 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	4 lbf•ft to 365 lbf•ft	0.03% + 0.02 lbf•ft	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	50 N•m to 1 000 N•m	0.23 % + 0.04 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	36.8 lbf•ft to 735 lbf•ft	0.23% + 0.03 lbf•ft	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	0.3 cN•m to 4 cN•m	0.28 % + 0.3 cN•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	1 ozf•in to 6 ozf•in	0.28 % + 0.426 ozf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	2 cN•m to 1 000 cN•m	0.11 % + 0.4 cN•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	0.2 N•m to 10 N•m	0.11 % + 0.004 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F

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Mechanical	Torque Transducers	2 lbf•in to 88 lbf•in	0.11 % + 0.035 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	5 N•m to 50 N•m	0.08 % + 0.01 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	44 lbf•in to 440 lbf•in	0.08 % + 0.09 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	3.6 lbf•ft to 36 lbf•ft	0.08 % + 0.07 lbf•ft	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	50 N•m to 500 N•m	0.16 % + 0.023 N•m	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	440 lbf•in to 4 400 lbf•in	0.16 % + 0.204 lbf•in	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Torque Transducers	36 lbf•ft to 360 lbf•ft	0.16 % + 0.017 lbf•ft	Calibration Kit TCL	CIS-07 Driver	F1, F3	F
Mechanical	Click Wrenches (Torque)	30 cN•m to 600 cN•m	0.38% + 0.01 cN•m	Torque Tester TDT600CN3-G	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	3 ozf•in to 80 ozf•in	0.38% + 0.014 ozf•in	Torque Tester TDT600CN3-G	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	0.2 lbf•in to 5 lbf•in	0.38% + 0.000 9 lbf•in	Torque Tester TDT600CN3-G	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	2 N•m to 20 N•m	0.48 % + 0.002 N•m	Toque Tester DOTE20N4-G	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	200 cN•m to 2 000 cN•m	0.48 % + 0.2 cN•m	Toque Tester DOTE20N4-G	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	18 lbf•in to 180 lbf•in	0.48 % + 0.018 lbf•in	Toque Tester DOTE20N4-G	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	4 N•m to 100 N•m	0.52 % + 0.006 8 N•m	Toque Tester TCC500N2-G Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	400 cN•m to 10 000 cN•m	0.52 % + 6.8 cN•m	Toque Tester TCC500N2-G Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	36 ozf•in to 14 161 ozf•in	0.52 % + 9.59 ozf•in	Toque Tester TCC500N2-G Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	36 lbf•in to 880 lbf•in	0.52 % + 0.06 lbf•in	Toque Tester TCC500N2-G Ch2	CIS-06 Wrench	F1, F3	F

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Mechanical	Click Wrenches (Torque)	3 lbf•ft to 74 lbf•ft	0.52 % + 0.005 lbf•ft	Toque Tester TCC500N2-G Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	100 N•m to 500 N•m	0.89 % + 0.64 N•m	Toque Tester TCC500N2-G Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	2 000 cN•m to 50 000 cN•m	0.89 % + 64 cN•m	Toque Tester TCC500N2-G Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	2 832 ozf•in to 70 806 ozf•in	0.89 % + 90.63 ozf•in	Toque Tester TCC500N2-G Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	180 lbf•in to 4 400 lbf•in	0.89 % + 5.66 lbf•in	Toque Tester TCC500N2-G Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	15 lbf•ft to 369 lbf•ft	0.89 % + 0.47 lbf•ft	Toque Tester TCC500N2-G Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	2 N•m to 50 N•m	0.18 % + 0.03 N•m	Toque Tester TF2000N Ch3	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	17.7 lbf•in to 442.5 lbf•in	0.18 % + 0.27 lbf•in	Toque Tester TF2000N Ch3	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	2 lbf•ft to 37 lbf•ft	0.18 % + 0.02 lbf•ft	Toque Tester TF2000N Ch3	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	20 N•m to 500 N•m	0.7 % + 0.02 N•m	Toque Tester TF2000N Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	177 lbf•in to 4 425 lbf•in	0.7 % + 1.77 lbf•in	Toque Tester TF2000N Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	20 lbf•ft to 370 lbf•ft	0.7 % + 0.15 lbf•ft	Toque Tester TF2000N Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	100 N•m to 2 100 N•m	1.7 % + 0.73 N•m	Toque Tester TF2000N Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	885 lbf•in to 18 587 lbf•in	1.7 % + 6.46 lbf•in	Toque Tester TF2000N Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Click Wrenches (Torque)	100 lbf•ft to 1 500 lbf•ft	1.7 % + 0.54 lbf•ft	Toque Tester TF2000N Ch1	CIS-06 Wrench	F1, F3	F

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Mechanical	Digital Wrenches (Torque)	2 N•m to 20 N•m	0.16 % + 0.01 N•m	Toque Tester DOTE20N4-G	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	200 cN•m to 2 000 cN•m	0.16 % + 0.78 cN•m	Toque Tester DOTE20N4-G	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	18 lbf•in to 180 lbf•in	0.16 % + 0.07 lbf•in	Toque Tester DOTE20N4-G	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	2 N•m to 50 N•m	0.15 % + 0.006 6 N•m	Toque Tester TF2000N Ch3	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	17.7 lbf•in to 442.5 lbf•in	0.15 % + 0.06 lbf•in	Toque Tester TF2000N Ch3	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	2 lbf•ft to 37 lbf•ft	0.15 % + .001 lbf•ft	Toque Tester TF2000N Ch3	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	20 N•m to 500 N•m	0.33 % + 0.17 N•m	Toque Tester TF2000N Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	177 lbf•in to 4 425 lbf•in	0.33 % + 1.50 lbf•in	Toque Tester TF2000N Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	20 lbf•ft to 370 lbf•ft	0.33 % + 0.13 lbf•ft	Toque Tester TF2000N Ch2	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	170 N•m to 850 N•m	0.5 % + 0.35 N•m	Toque Tester TF2000N Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	885 lbf•in to 18 587 lbf•in	0.5 % + 3.10 lbf•in	Toque Tester TF2000N Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	100 lbf•ft to 1 500 lbf•ft	0.5 % + 0.26 lbf•ft	Toque Tester TF2000N Ch1	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	4 N•m to 100 N•m	0.15 % + 0.004 3 N•m	Toque Tester TCC500N2-G	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	36 lbf•in to 880 lbf•in	0.15 % + 0.038 1 lbf•in	Toque Tester TCC500N2-G	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	3.0 lbf•ft to 73 lbf•ft	0.15 % + 0.003 2 lbf•ft	Toque Tester TCC500N2-G	CIS-06 Wrench	F1, F3	F

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Mechanical	Digital Wrenches (Torque)	40 N•m to 500 N•m	0.29 % + 0.056 N•m	Toque Tester TCC500N2-G	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	360 lbf•in to 4400 lbf•in	0.29 % + 0.496 lbf•in	Toque Tester TCC500N2-G	CIS-06 Wrench	F1, F3	F
Mechanical	Digital Wrenches (Torque)	30 lbf•ft to 360 lbf•ft	0.29 % + 0.041 lbf•ft	Toque Tester TCC500N2-G	CIS-06 Wrench	F1, F3	F
Mechanical	Rotary Slip Drivers (Torque)	2 cN•m to 60 cN•m	0.48 % + 0.000 8 cN•m	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Rotary Slip Drivers (Torque)	3 ozf•in to 80 ozf•in	0.48 % + 0.001 1 ozf•in	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Rotary Slip Drivers (Torque)	0.2 lbf•in to 5 lbf•in	0.48 % + 0.000 07 lbf•in	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Rotary Slip Drivers (Torque)	20 cN•m to 500 cN•m	0.65 % + 0.01 cN•m	Toque Tester TDT600CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Rotary Slip Drivers (Torque)	30 ozf•in to 800 ozf•in	0.65 % + 0.014 ozf•in	Toque Tester TDT600CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Rotary Slip Drivers (Torque)	2 lbf•in to 50 lbf•in	0.65 % + 0.089 lbf•in	Toque Tester TDT600CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Rotary Slip Drivers (Torque)	0.3 cN•m to 4 cN•m	2.1 % + 0.005 5 cN•m	Toque Tester TCF004N	CIS-07 Driver	F1, F3	F
Mechanical	Rotary Slip Drivers (Torque)	1 ozf•in to 6 ozf•in	2.1 % + 0.007 8 ozf•in	Toque Tester TCF004N	CIS-07 Driver	F1, F3	F
Mechanical	Digital Guage (Torque)	0.1 cN•m to 1 cN•m	0.23 % + 0.001 5 cN•m	Calibration Kit ATGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	0.142 ozf•in to 1.142 ozf•in	0.23 % + 0.002 1 ozf•in	Calibration Kit ATGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	1 mN•m to 10 mN•m	0.23 % + 0.015 mN•m	Calibration Kit ATGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	0.4 cN•m to 20 cN•m	0.11 % + 0.003 6 cN•m	Calibration Kit ATGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F

Certificate of Accreditation: Supplement

Tohnichi America Corp

1303 Barclay Blvd, Buffalo Grove, IL 60089
Contact Name: Chris Schmidt Phone: 847-947-8560

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Mechanical	Digital Guage (Torque)	2.83 ozf•in to 28.32 ozf•in	0.11 % + 0.005 1 ozf•in	Calibration Kit ATGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	20 mN•m to 200 mN•m	0.11 % + 0.036 mN•m	Calibration Kit ATGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	2 cN•m to 50 cN•m	0.12 % + 0.011 cN•m	Calibration Kit BTGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	2.83 ozf•in to 70.8 ozf•in	0.12 % + 0.015 6 ozf•in	Calibration Kit BTGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	0.177 lbf•in to 4.43 lbf•in	0.12 % + 0.001 0 lbf•in	Calibration Kit BTGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	20 cN•m to 200 cN•m	0.14 % + 0.052 cN•m	Calibration Kit BTGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	28.32 ozf•in to 283.22 ozf•in	0.14 % + 0.073 6 ozf•in	Calibration Kit BTGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Guage (Torque)	1.77 lbf•in to 17.70 lbf•in	0.14 % + 0.004 6 lbf•in	Calibration Kit BTGE	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Non-Rotary Slip Drivers (Torque)	2.26 N•m to 10.17 N•m	1.2 % + 0.012 N•m	Toque Tester DOTE20N4-G	CIS-07 Driver	F1, F3	F
Mechanical	Non-Rotary Slip Drivers (Torque)	20 lbf•in to 90 lbf•in	1.2 % + 0.1062 lbf•in	Toque Tester DOTE20N4-G	CIS-07 Driver	F1, F3	F
Mechanical	Non-Rotary Slip Drivers (Torque)	2 cN•m to 60 cN•m	0.033 % + 0.037 cN•m	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Non-Rotary Slip Drivers (Torque)	0.2 lbf•in to 5 lbf•in	0.033 % + 0.002 lbf•in	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Non-Rotary Slip Drivers (Torque)	3 ozf•in to 80 ozf•in	0.033 % + 0.024 ozf•in	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Non-Rotary Slip Drivers (Torque)	20 cN•m to 500 cN•m	0.048 % + 0.071 cN•m	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Non-Rotary Slip Drivers (Torque)	2 lbf•in to 50 lbf•in	0.033 % + 0.063 lbf•in	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Mechanical	Non-Rotary Slip Drivers (Torque)	30 ozf•in to 800 ozf•in	0.033 % + 1.005 ozf•in	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Analog Guage (Torque)	0.5 cN•m to 0.9 cN•m	0.07 % + 0.007 4 cN•m	Calibration Kit ATGTCL (5mm)	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Analog Guage (Torque)	0.1 ozf•in to 1.5 ozf•in	0.07 % + 0.010 5 ozf•in	Calibration Kit ATGTCL (5mm)	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Analog Guage (Torque)	0.2 cN•m to 24 cN•m	0.47 % + 0.008 cN•m	Calibration Kit ATGTCL (20mm)	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Analog Guage (Torque)	0.4 ozf•in to 36 ozf•in	0.47 % + 0.011 ozf•in	Calibration Kit ATGTCL (20mm)	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Analog Guage (Torque)	3 cN•m to 36 cN•m	0.56 % + 0.027 cN•m	Calibration Kit BTGTCL (50mm)	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Analog Guage (Torque)	0.2 lbf•in to 3.6 lbf•in	0.56 % + 0.305 1 lbf•in	Calibration Kit BTGTCL (50mm)	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Analog Guage (Torque)	10 cN•m to 150 cN•m	0.25 % + 0.085 0 cN•m	Calibration Kit BTGTCL (100mm)	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Analog Guage (Torque)	1 lbf•in to 15 lbf•in	0.25 % + 0.960 4 lbf•in	Calibration Kit BTGTCL (100mm)	CIS-08 ATG(E)_BTG(E)	F1, F3	F
Mechanical	Digital Drivers (Torque)	10 cN•m to 50 cN•m	0.17 % + 0.008 7 cN•m	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Digital Drivers (Torque)	1 lbf•in to 4.4 lbf•in	0.17 % + 0.000 8 lbf•in	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Digital Drivers (Torque)	15 ozf•in to 70 ozf•in	0.17 % + 0.012 3 ozf•in	Toque Tester TDT60CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Digital Drivers (Torque)	40 cN•m to 400 cN•m	0.52 % + 0.088 cN•m	Toque Tester TDT600CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Digital Drivers (Torque)	4 lbf•in to 17 lbf•in	0.52 % + 0.007 8 lbf•in	Toque Tester TDT600CN3-G	CIS-07 Driver	F1, F3	F
Mechanical	Digital Drivers (Torque)	57 ozf•in to 568 ozf•in	0.52 % + 0.124 6 ozf•in	Toque Tester TDT600CN3-G	CIS-07 Driver	F1, F3	F

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Accreditation is granted to the facility to perform the following conformity assessment activities:

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.