Torque Calibrator Machine

Digital Calibrator BT-TC Series

A Digital Torque Calibrator Machine is a device used to measure and calibrate torque wrenches and other torque tools. It typically consists of a digital display, a torque sensor, and a mechanism for applying torque to the tool being calibrated.

Here's how it works:

- The torque tool is attached to the calibrator machine.
- A predetermined torque value is set on the calibrator.
- The torque is applied to the tool being calibrated.
- The machine measures the torque applied and compares it to the set value.
- If there's any discrepancy, adjustments can be made to the torque tool to ensure accuracy.
- The process is repeated for various torque settings to ensure the tool's accuracy across its range.

In short, a Digital Torque Calibrator Machine ensures the accuracy of torque tools by comparing their applied torque to a set value and making adjustments as needed.

A digital torque calibrator machine is essentially a machine that checks and adjusts the accuracy of torque wrenches. It works by securely mounting the wrench and applying a known torque force. The machine's digital display shows the actual torque applied by the wrench, allowing technicians to see if it matches the desired setting and make adjustments if needed. This ensures torque wrenches are tightening fasteners to the precise specifications, critical for safety and proper assembly in many industries.

MODEL	Torque Wrench	Tension Range	CA	Weight (Main Body)	Adaptable Bolts Dia
BTTC-53	50-3000N.m 37-2214lbs.ft	0-500KN	±2%	26KG	M16(5/8") M20(3/4") M22(7/8") M24(1") M27(1-1/8") M30(1-1/4")
BTTC-85	50-5000N.m 37-3690lbs.ft	0-800KN	±2%	28KG	M16(5/8") M20(3/4") M22(7/8") M24(1") M27(1-1/8") M30(1-1/4") M33(1-3/8") M36(1-1/2")

Torque Calibrator Machine

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Manual Calibrator BT-S Series

A Manual Torque Calibrator Machine is a device used to measure and calibrate torque wrenches and other torque tools manually, without digital assistance. It typically consists of a torque sensor, a display for torque readings, and a mechanism for applying torque to the tool being calibrated.

Here's how it works:

- The torque tool is attached to the calibrator machine.
- A predetermined torque value is set manually using a torque adjustment mechanism.
- Torque is applied to the tool being calibrated using a manual handle or lever.
- The machine measures the torque applied and displays the reading on the torque display.
- The operator compares the displayed torque reading to the set value and makes adjustments to the torque tool if necessary.
- The process is repeated for various torque settings to ensure the tool's accuracy across its range.

In short, a Manual Torque Calibrator Machine relies on manual adjustment and operation to measure and calibrate torque tools accurately.

Model	Torque	Square Drive mm	Division Value N.m	Weight	Dimension mm
BT-S5	0-5N.m 0-3.7ft.lbs	6.3*6.3	0.05	0.8	275*68*58
BT-S10	0-10N.m 0-74ft.lbs	9.5*9.5	0.10	0.7	275*68*58
BT-S30	0-30N.m 0-19ft.lbs	9.5*9.5	0.25	0.7	275*68*58
BT-S50	0-50N.m 0-37ft.lbs	12.7*12.7	0.5	0.8	305*68*70
BT-S100	0-100N.m 0-74ft.lbs	12.7*12.7	1	0.8	305*68*70
BT-S200	60-200N.m 44-221ft.lbs	12.7*12.7	2	1.7	600*68*76
BT-S300	90-30N.m 66.4-191ft.lbs	12.7*12.7	3	1.7	600*68*76
BT-S500	150-500N.m 111-369ft.lbs	19*19	5	4	900*68*97
BT-S750	250-750N.m 185-553ft.lbs	19*19	5	4	900*68*97
BT-S1000	200-1000N.m 148-738ft.lbs	19*19	10	6	900*68*103
BT-S2000	600-2000N.m 443-1476ft.lbs	25.4*25.4	20	9	900*68*103