



DR. TORQUE[®]

PROFESSIONAL INDUSTRY
TORQUE-CONTROL
ELECTRIC SCREWDRIVER

DTAC-BL Series
AC
Brushless
Direct Plug-In 110V/220V

DTAC Series
Direct Plug-In 110V/220V

DTX Series
Direct Plug-In 110V/220V

DTA Series
Direct Plug-In 110V/220V

DTS Series
Direct Plug-In 110V/220V

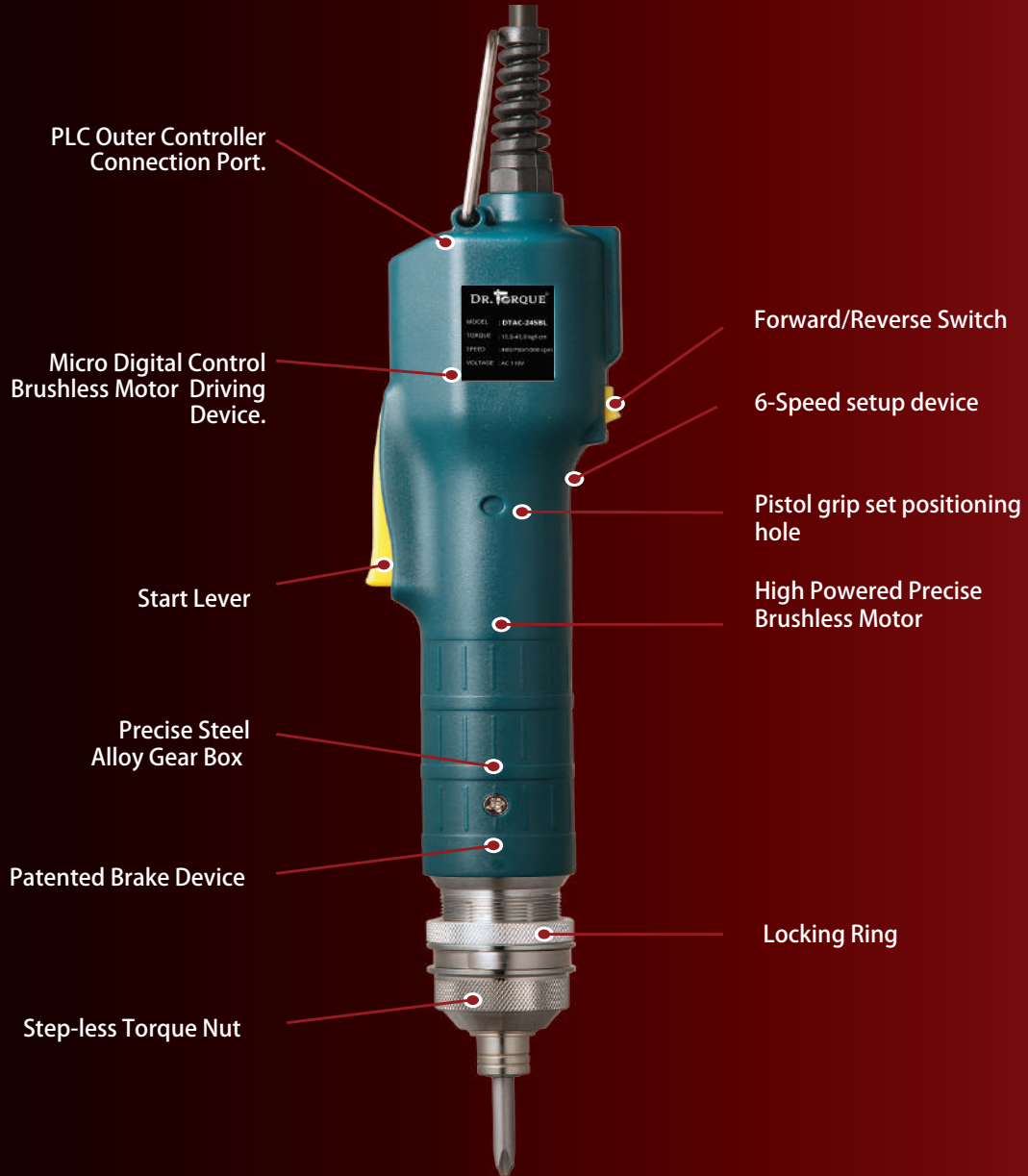
DTRE/DTF Series
DC 30V

DTRE/DTF-BL Series
Brushless Motor Series

DTCY-D Series
DC 30V

DTV - Vacuum Series

Function Description



Three Mode Combination



REAR Mode

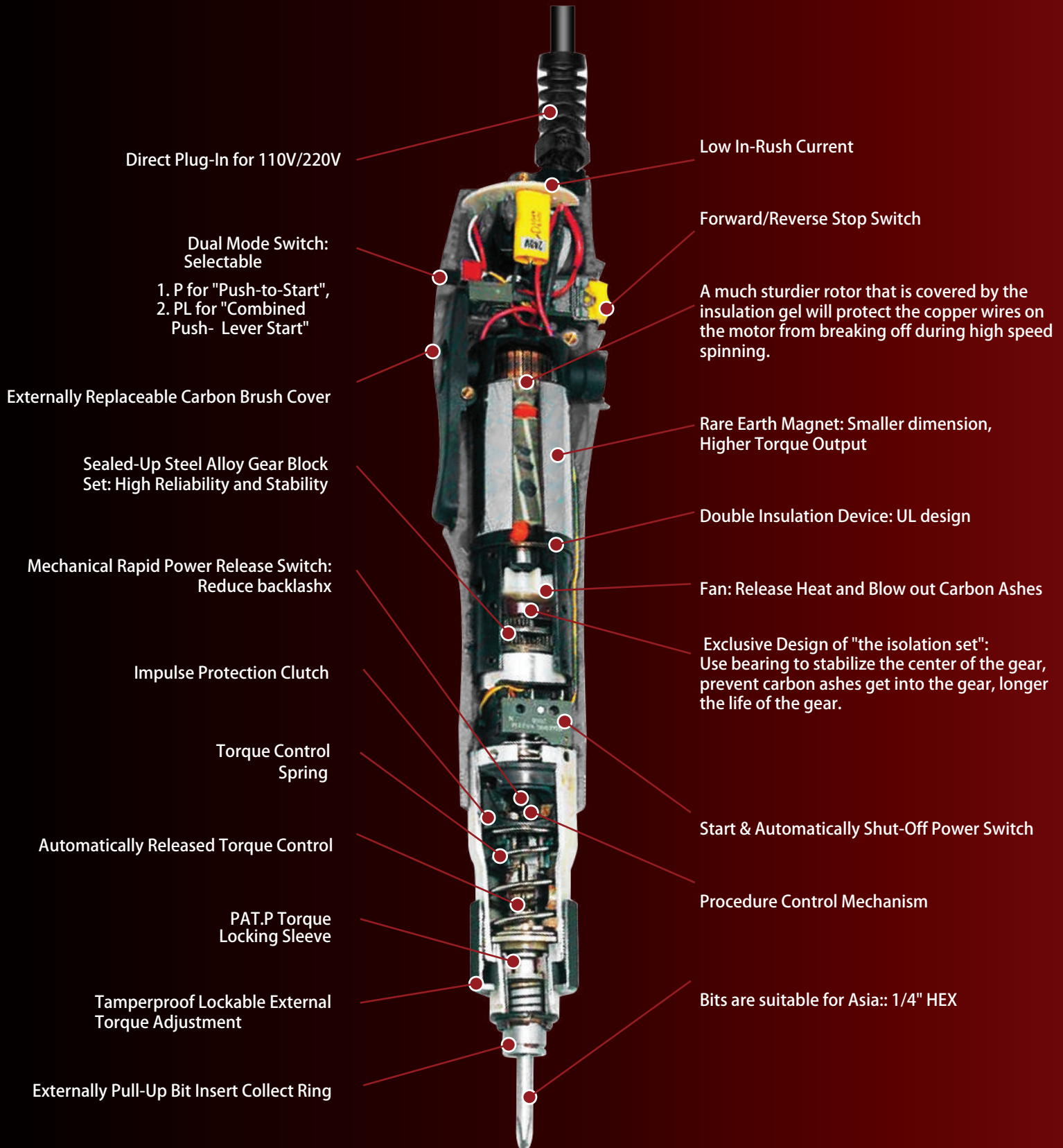


BOTTOM Mode



UPPER Mode

Section Structure

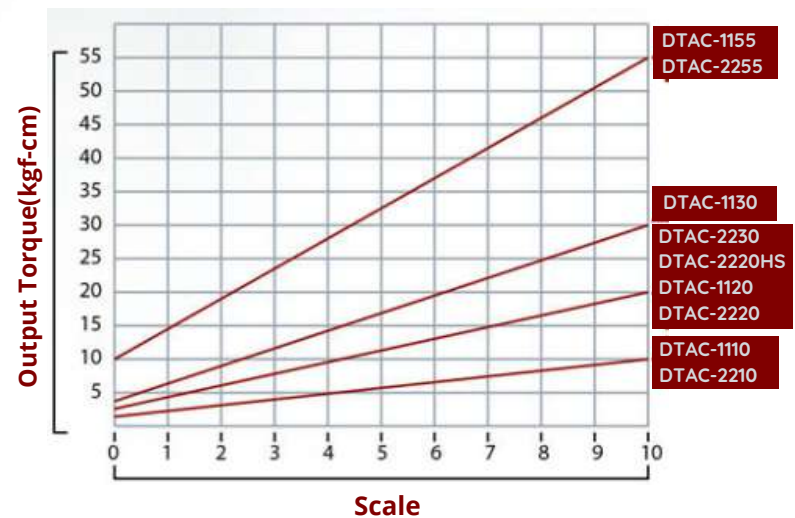


Full Automatic Clutch Carbon Brush Electric Screwdriver



- Super Low Inertia Effect Design: First of its kind feature, the clutch releases automatically, without any 'backlash', when the preset torque is achieved. This eliminates over tightening by operator and reduces work fatigue.
- Usage of the mechanical clutch instead of the conventional electronic brake circuit will help get rid of the sparks, eliminate easy failure of the electronic brake circuit and reduce heat
- Unique feature of dual switch mode (push-to start or push-lever start), allowing the operator to customize the tool to the required application to improve work efficiency
- Interchangeable 5.0Ø () HB and Hex Bits within the same electric screwdriver, allowing the operator with wide range of operations.
- Exclusive use of isolation base design to prevent carbon dust from entering the gearbox that will increase the life of the gear unit.
- An anti-impact sleeve is installed around the clutch to prevent the grinding on the clutch cam and affecting the precision of the torque
- User friendly design of quick and easy bit change process: To change the bit, pull the collect ring, insert the desired bit, and release the collect ring. The bit will automatically lock into its desired position.
- Unlike other electric screwdrivers, the quick and easy bit change process does not allow the screwdriver to self-start, preventing any accident.

TORQUE REFERENCE



MODEL		DTAC-1110	DTAC-2210	DTAC-1120	DTAC-2220	DTAC-1130
FREE SPEED (rpm)		1000	1000	1000	1000	1000
OUTPUT TORQUE RANGE	N.m	0.2-1.0	0.2-1.0	0.3-2.0	0.3-2.0	0.4-3.0
	lbf.in	1.7-8.7	1.7-8.7	2.6-17.4	2.6-17.4	3.5-26.0
	kgf.cm	2.0-10.0	20-10.0	3.0-20.0	3.0-20.0	4.0-30.0
START		PUSH SART / PUSH - LEVER START				
VOLTAGE		110V	220V	110V	220V	110V

MODEL		DTAC-2230	DTAC-1120HS	DTAC-2220HS	DTAC-1155	DTAC-2255
FREE SPEED (rpm)		1000	1800	1800	400	400
OUTPUT TORQUE RANGE	N.m	0.4-3.0	0.4-2.0	0.4-2.0	1.0-5.5	1.0-5.5
	lbf.in	3.5-26.0	3.5-17.4	3.5-17.4	8.7-47.7	8.7-47.7
	kgf.cm	4.0-30.0	4.0-20.0	4.0-20.0	10.0-55.0	10.0-55.0
START		PUSH SART / PUSH - LEVER START				
VOLTAGE		220V	110V	220V	110V	220V

Full Automatic Clutch Brushless Electric Screwdriver

- New development of direct plug-in sensor-less brush-less high-precision internal rotation motor and multi-functional electric screwdriver
- Plug and use without DC power supply with high stability and low temperature rise characteristics suitable for long precision operations
- Six rotation speed: 1000 rpm / 700 rpm / 400 rpm / 1000rpm (softstart) / 700rpm (softstart) / 400 rpm (softstart), applicable for to various products
- Usable with Programmable Logic Controller (PLC) and operate via external control unit making it suitable for automatic equipment (optional model)
- Maximum torque of 45 kgf-cm is attainable
- Outer diameter of the electric screwdriver body is only 34 mm
- Best suitable for clean room applications as it is free from carbon brush dust
- Patented brake switch has high resistance on impulsive vibration that increases the life of the switch
- Combination of the buffer device with the new clutch model greatly reduces the shock, improve the precision of torque, and increase the life of its usage
- With step-less torque adjustment, this series covers a wider range of torque output, sufficient to meet diverse needs
- Light weight and slim design assure long and fatigue-free working



SCREW COUNTER
BC-01

MODEL		DTAC-115BL	DTAC-215BL	DTAC-125BL	DTAC-225BL	DTAC-135BL
VOLTAGE TYPE		110V	220V	110V	220V	110V
UNLOADED ROTATION SPEED (rpm) +/- 10%		400/700/1100 rpm				
WITH SOFT START MODEL		O	O	O	O	O
OUTPUT TORQUE RANGE	N.m	0.08 - 1.5	0.08 - 1.5	0.2 - 2.5	0.2 - 2.5	0.5 - 3.5
	lbf.in	0.69 - 13.0	0.69 - 13.0	1.74 - 21.7	1.74 - 21.7	4.34 - 30.4
	kgf.cm	0.8 - 15.0	0.8 - 15.0	2.0 - 25.0	2.0 - 25.0	5.0 - 35.0
START TYPE		LEVER START				
BIT TYPE		M6(5.0) HEDTX5.0 + M6 HEDTX 1/4				
OPTION	PUSH START TYPE FOR AUTO CONTROL TECHNOLOGY (AT TYPE)	DTAC-115BL-AT	DTAC-215BL-AT	DTAC-125BL-AT	DTAC-225BL-AT	DTAC-135BL-AT
	OPTION ACCESSORIES	DTAC-BL : PISTOL GRIP SET T GR-01 : TORQUE IDENTIFICATION & ANTISLIP COLOR RING SET GL-03 : TORQUE LOCKING COVER				

MODEL		DTAC-235BL	DTAC-145BL	DTAC-245BL	DTAC-135BL-13	DTAC-235BL-13
VOLTAGE TYPE		220V	110V	220V	110V	220V
UNLOADED ROTATION SPEED (rpm) +/- 10%		400/700/1100 rpm	300/500/700 rpm		500/900/1400 rpm	
WITH SOFT START MODEL		O	O	O	O	O
OUTPUT TORQUE RANGE	N.m	0.5 - 3.5	1.5 - 4.5	1.5 - 4.5	0.5 - 3.5	0.5 - 3.5
	lbf.in	4.34 - 30.4	13.0 - 39.0	13.0 - 39.0	4.35 - 30.4	4.35 - 30.4
	kgf.cm	5.0 - 35.0	15.0 - 45.0	15.0 - 45.0	5.0 - 35.0	5.0 - 35.0
START TYPE		LEVER START				
BIT TYPE		M6(5.0) HEDTX5.0 + M6 HEDTX 1/4				
OPTION	PUSH START TYPE FOR AUTO CONTROL TECHNOLOGY (AT TYPE)	DTAC-235BL-AT	DTAC-145BL-AT	DTAC-245BL-AT	DTAC-135BL-13-P	DTAC-235BL-13-P
	OPTION ACCESSORIES	DTAC-BL : PISTOL GRIP SET T GR-01 : TORQUE IDENTIFICATION & ANTISLIP COLOR RING SET GL-03 : TORQUE LOCKING COVER				

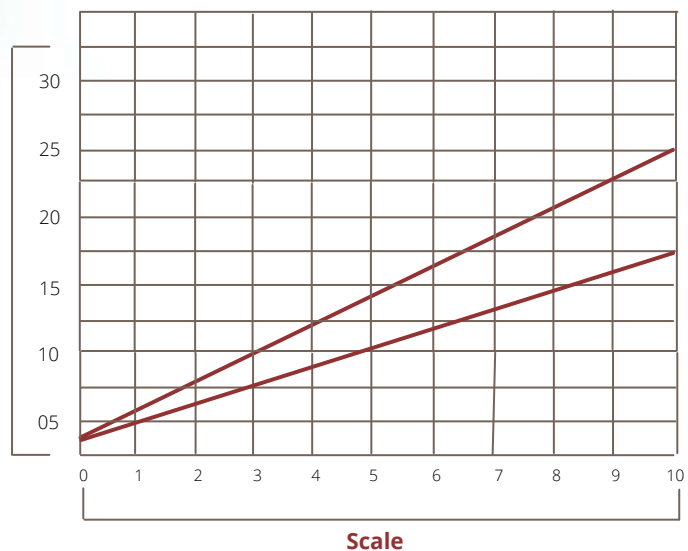
Full Automatic Clutch Carbon Brush Electric Screwdriver



- Patented break switch has high resistance to impulsive vibration that increases the switch life
- Triple protection safety device avoids fault damage caused by overload or short circuit
- With a high tolerance to a wide voltage range, DTX/DTA series can overcome various issues of operating in an unstable power supply environment
- Electromagnetic Compatibility (EMC) feature
- Use of small-sized High-Power Rare-Earth Magnet Motor provides higher torque output and additional safety due to double insulation
- Sealed Motor Axle with special glue protects the winding wire and prolong the motor life



TORQUE REFERENCE



DTX-1125
DTX-2225

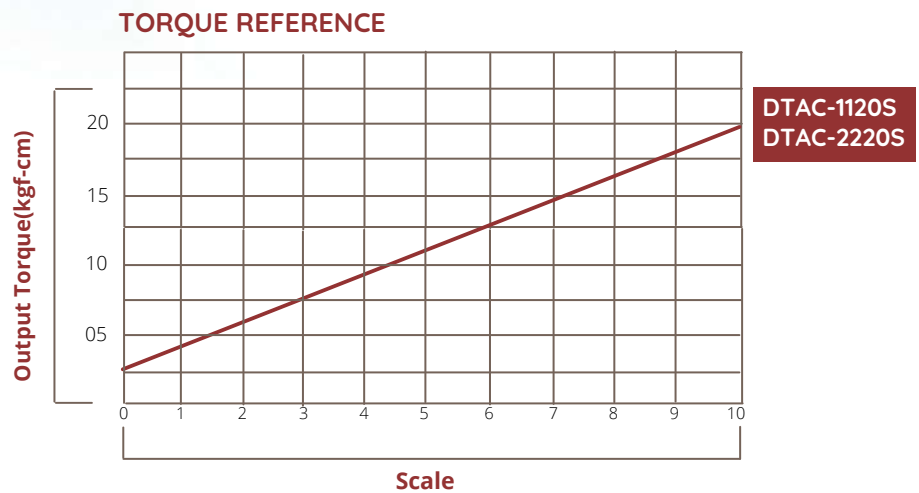
DTX-1115
DTX-2215

MODEL		DTX-1115	DTX-1125	DTX-2215	DTX-2225
FREE SPEED (rpm)		900	900	900	900
OUTPUT TORQUE RANGE	N.m	0.08-1.5	0.08-2.5	0.08-1.5	0.08-2.5
	lbf.in	0.7-13.0	0.7-21.7	0.7-13.0	0.7-21.7
	kgf.cm	0.8-15.0	0.8-25.0	0.8-15.0	0.8-25.0
START		LEVER START			
VOLTAGE		110V	110V	220V	220V

Semi-Automatic Clutch Carbon Brush Electric Screwdriver



- Double buffer shock absorption device blocks the damage of parts from vibration
- Use of small-sized High-Power Rare-Earth Magnet Motor provides higher torque output and additional safety due to double insulation
- The external carbon brush is easy to replace, easy to maintain and does not require professional repairs
- With step-less torque adjustment, this series covers a wider range of torque output sufficient to meet various applications
- A universal screwdriver for the production line of different products
- Sealed motor axle is with special glue protects the winding wire and prolongs the motor life



MODEL		DTAC-1120S	DTAC-2220S
FREE SPEED (rpm)		1000	1000
OUTPUT TORQUE RANGE	N.m	0.3-2.0	0.3-2.0
	lbf.in	2.6-17.4	2.6-17.4
	kgf.cm	3.0-20.0	3.0-20.0
START			
VOLTAGE		110V	220V

Fully Automatic Clutch Brushless Electric Screwdriver



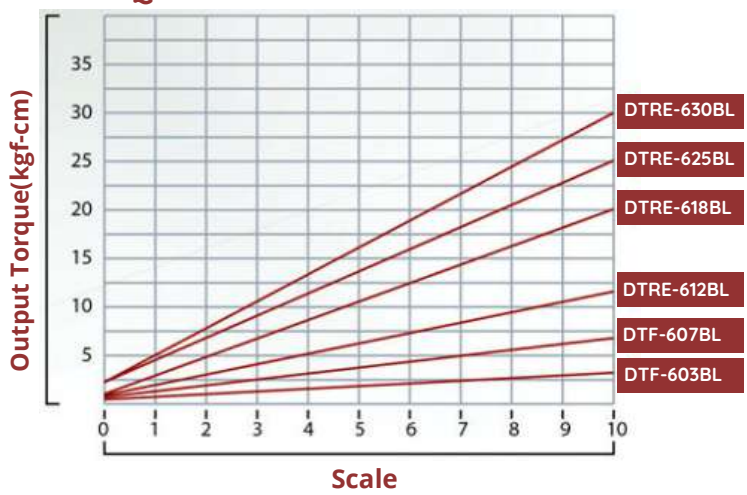
- New development of sensor-less brush-less high precision internal rotation motor, with high stability, low temperature rising characteristics is also suitable for long-term precision operation
- Compact size along with high output torque
- Best suitable for clean room applications as it is free from carbon brush dust
- Patented brake switch has high resistance on impulsive vibration that increases the switch life
- Combination of the buffer device and new clutch model greatly reduces the shock, improves the precision of torque, and increases the life of its usage
- With step-less torque adjustment, this series covers a wider range of torque output sufficient to meet various applications
- Electric screwdriver body and the connecting line adopt a separate structure, which is more convenient for maintenance
- Light weight and slim design assure long and fatigue-free working



SCREW COUNTER BC-01



TORQUE REFERENCE



MODEL		DTF-603BL	DTF-607BL	DTRE-612BL	DTRE-618BL	DTRE-625BL	DTRE-630BL
FDTREE SPEED (rpm)		660/480	1000/750	1000/750	1000/750	660/480	660/480
OUTPUT TORQUE RANGE	N.m	0.02-0.3	0.05-0.7	0.08-1.2	0.08-2.0	0.2-2.5	0.2-3.0
	lbf.in	0.17-2.6	0.43-6.1	0.7-10.4	0.7-17.4	1.7-21.7	1.7-26.0
	kgf.cm	0.2-3.0	0.5-7.0	0.8-12.0	0.8-20.0	2.0-25.0	2.0-30.0
START		LEVER START/PUSH START					
CONTROLLER		SW1-B/T-1-SWB			T-1-SWB		
ESD		YES					

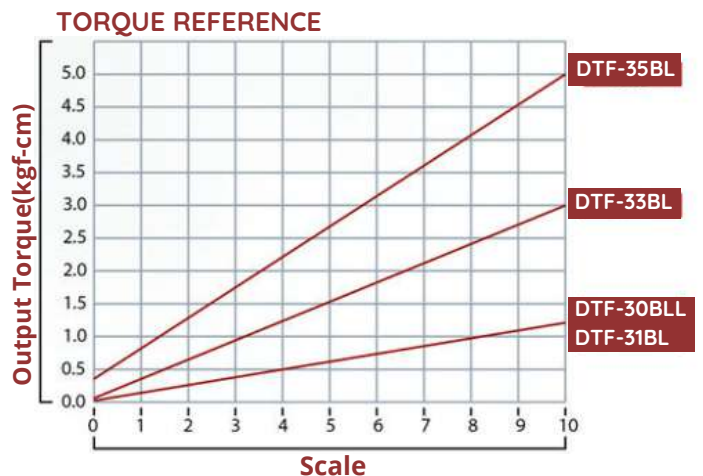
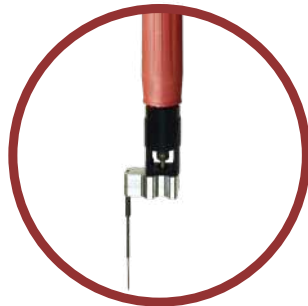
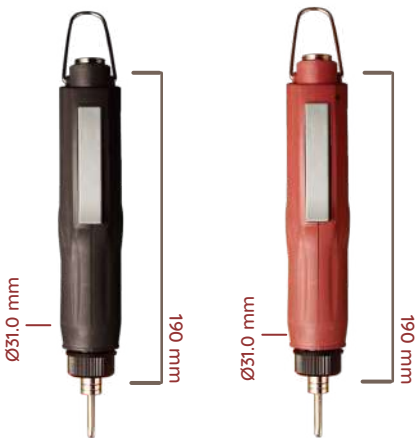
Fully Automatic Clutch Brushless Electric Screwdriver



- New development of sensor-less brush-less high-precision internal rotation motor, with high stability, the low temperature rises characteristics is also suitable for long-term precision operation
- Compact size along with high output torque
- Best suitable for cleanroom applications as it is free from carbon brush dust
- The patented brake switch has high resistance to impulsive vibration which increases the switch life
- The combination of the buffer device and new clutch model greatly reduces the shock, improves the precision of torque, and increases the life of its usage
- With step-less torque adjustment, this series covers a wider range of torque output sufficient to meet diverse needs
- Electric screwdriver body and the connecting line adopt a separate structure, which is more convenient for maintenance
- Light weight and slim design assure long and fatigue-free working



SCREW COUNTER
BC-01



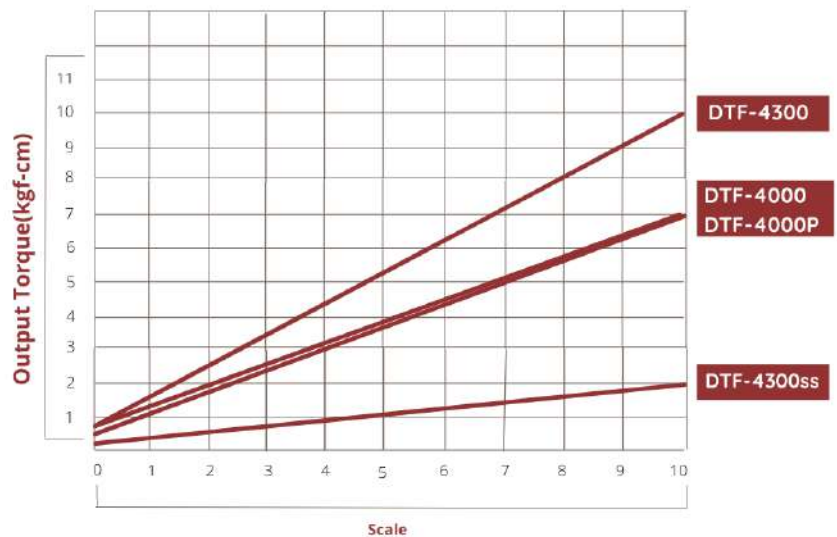
MODEL		DTF-31BLL	DTF-31BL	DTF-33BL	DTF-35BL
FREE SPEED (rpm)		300/150	1000/750	1000/750	1000/750
OUTPUT TORQUE RANGE	N.m	0.015-0.12	0.015-0.12	0.02-0.3	0.04-0.5
	lbf.in	0.13-1.04	0.13-1.04	0.17-2.6	0.35-4.34
	kgf.cm	0.15-1.2	0.15-1.2	0.20-3.0	0.4-5.0
START CONTROLLER		LEVER START/SLIDE			
ESD		SW1-B/T-1-SWB			
APPLICABLE BIT (mm)		YES			
		M3			

Automatic Clutch Carbon Brush Electric Screwdriver



- First to specialize in forward and reverse rotation to achieve the highest working efficiency
- The patented brake switch has high resistance on impulsive vibration that will increase the switch life
- Uses High-Power Rare-Earth Magnet Motor which has smaller size, provides higher torque output and is safe due to double insulation
- The buffer device cooperates with the new clutch to reduce the impact force, improve the torque accuracy, and increase the service life
- Light weight and slim design assure long and fatigue-free working
- The external carbon brush is easy to replace, easy to maintain and does not require a profession to repair
- Built-in torque adjustment with anti-locking ring design can directly set the output torque, avoiding the accidental change of the torque by the on-site operator
- *There is an option to choose between lever or switch for DTF series model for its reverse function operation mode. Customers can choose the operation depending on their requirement
- *The DTF series is compatible with AT base to fulfil automation needs

TORQUE REFERENCE



MODEL		DTF-4300SS	DTF-4000	DTF-4300	DTF-4000P
FREE SPEED (rpm)		660	1000	660	1000
OUTPUT TORQUE RANGE	N.m	0.02-0.3	0.05-0.7	0.08-1.0	0.08-0.7
	lbf.in	0.17-2.6	0.43-6.1	0.7-8.7	0.7-6.1
	kgf.cm	0.2-3.0	0.5-7.0	0.8-10.0	0.8-7.0
START CONTROLLER		LEVER START A/B/C/D/H/I			PUSH START C/F
ESD		ESD			

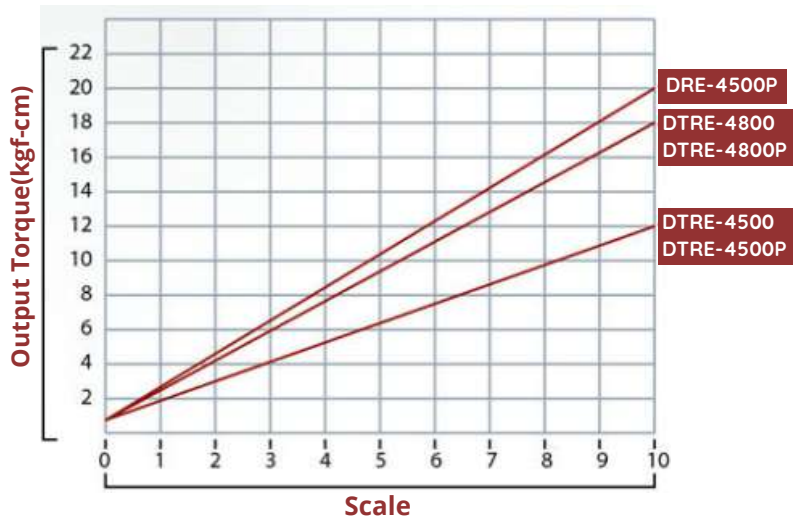
Fully Automatic Clutch Carbon Brush Electric Screwdriver



- The first full-button control for both forward and reverse rotations, with the highest operating efficiency and convenient use
- The patented brake switch has high resistance to impulsive vibration that will increase the switch life
- Uses High-Power Rare-Earth Magnet Motor which has smaller size, provides higher torque output, and is safe due to double insulation
- The buffer device cooperates with the new clutch to reduce the impact force, improve the torque accuracy, and increase the service life
- Light weight and slim design assure long and fatigue-free working
- The external carbon brush is easy to replace, easy to maintain and does not require a professional to repair
- Built-in torque adjustment with anti-locking ring design can directly set the output torque, avoiding the accidental change of the torque by the on-site operator
- * There is an option to choose between lever or switch for the DTF series model for its reverse function operation mode. Customers can choose the operation depending on their requirements.
- * DTRE/DTF Series is compatible with AT base to fulfil automation needs



TORQUE REFERENCE

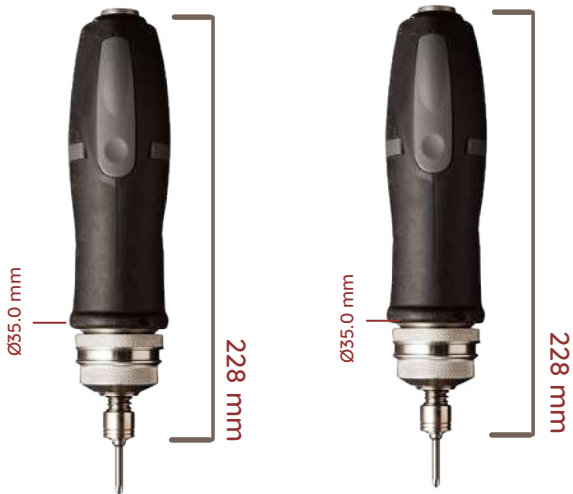


MODEL		DTRE-4500	DTRE-4800	DTRE-5000	DTRE-4500P	DTRE-4800P
FREE SPEED (rpm)		1000	660	900	1000	660
OUTPUT TORQUE RANGE	N.m	0.08-1.2	0.008-1.8	0.08-2.0	0.08-1.0	0.08-1.6
	lbf.in	0.7-10.4	0.7-15.6	0.7-17.4	0.7-8.7	.7-13.9
	kgf.cm	0.8-12.0	0.8-18.0	0.8-20.0	0.8-10.0	0.8-16.0
START		LEVER START			PUSH START	
CONTROLLER		A/B/C/D/E/F/G/H			C/F	
ESD		YES				

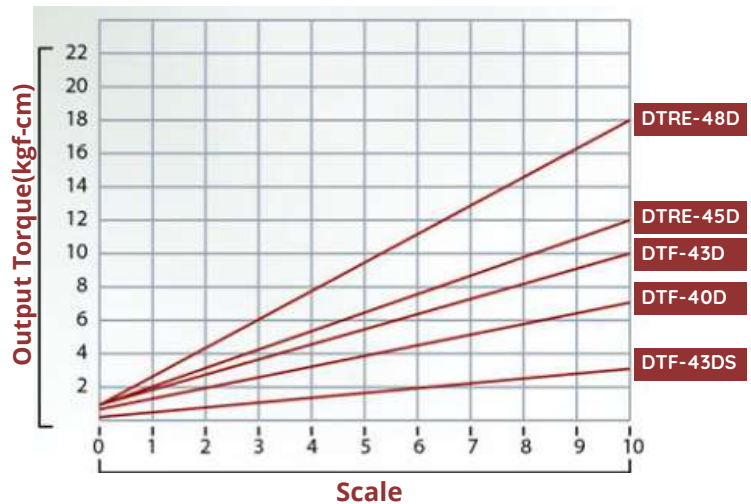
Fully Automatic Clutch Carbon Brush Electric Screwdriver



- The patented brake switch has high resistance to impulsive vibration that will increase the switch life
- Uses High-Power Rare-Earth Magnet Motor which has smaller size, provides higher torque output, and is safe due to double insulation
- The buffer device cooperates with the new clutch to reduce the impact force, improve the torque accuracy, and increase the service life
- Light weight and slim design assure long and fatigue-free working
- Built-in torque adjustment with anti-locking ring design can directly set the output torque, avoiding the accidental change of the torque by the on-site operator, without any additional accessories
- The external carbon brush is easy to replace, easy to maintain and does not require a professional to repair



TORQUE REFERENCE



MODEL		DTF-43DS	DTF-40D	DTF-43D	DTRE-45D	DTRE-48D
FREE SPEED (rpm)		660	1000	660	1000	660
OUTPUT TORQUE RANGE	N.m	0.02-0.3	0.05-0.7	0.08-1.0	0.08-1.2	0.08-1.8
	lbf.in	0.17-2.6	0.43-6.1	0.7-8.7	0.7-10.4	0.7-15.6
	kgf.cm	0.2-3.0	0.5-7.0	0.8-10.0	0.8-12.0	0.8-18.0
START		LEVER START / PUSH START				
CONTROLLER		G/H/I			G/H	
ESD		YES				



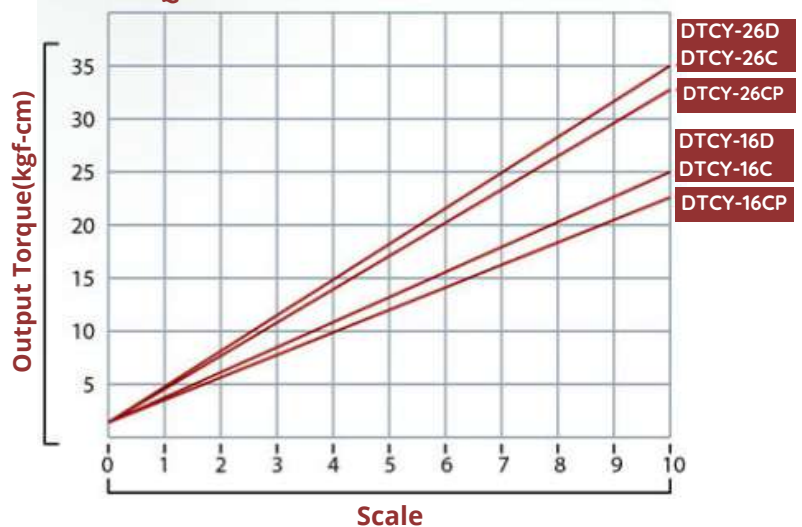
Fully Automatic Clutch Carbon Brush Electric Screwdriver



- The patented break switch design has high resistance to impulsive vibration that will increase the life of the switch
- Uses High-Power Rare-Earth Magnet Motor which has smaller size, provides higher torque output, and is safe due to double insulation
- The buffer device cooperates with the new clutch to reduce the impact force, improve the torque accuracy, and increase the service life
- The external carbon brush is easy to replace, easy to maintain and does not require professional repairs
- Built-in torque adjustment with anti-locking ring design can directly set the output torque, avoiding the accidental change of the torque by the on-site operator



TORQUE REFERENCE



MODEL		DTCY-16D	DTCY-26D	DTCY-16C	DTCY-26C	DTCY-16CP	DTCY-26CP
FREE SPEED (rpm)		1000	660	1000	660	1000	660
OUTPUT TORQUE RANGE	N.m	0.2-2.5	0.2-3.5	0.2-2.5	0.2-3.5	0.2-2.3	0.2-2.3
	lbf.in	1.7-30.4	1.7-30.4	1.7-21.7	1.7-30.4	1.7-20.0	1.7-28.6
	kgf.cm	2.0-35.0	2.0-35.0	2.0-25.0	2.0-35.0	2.0-23.0	2.0-33.0
START CONTROLLER		LEVER START			PUSH START		
		G/H		A/B/C/D/E/F/H		C/F	
ESD		YES					

Vacuum Carbon Brush Electric Screwdriver

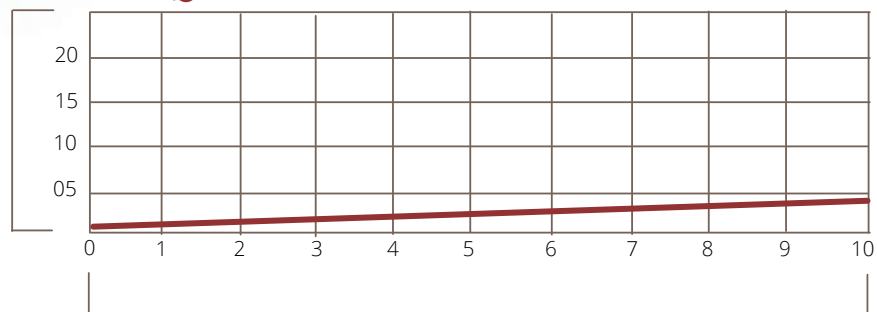


Vacuum Electric Screwdriver : DTV-3000

- Special screwdriver chuck design at the tip stabilizes the bits from swinging
- The body is compact, light, and well balanced to minimize fatigue of operator's hand
- It can be coupled with a vacuum source to ensure quality suction of the screws

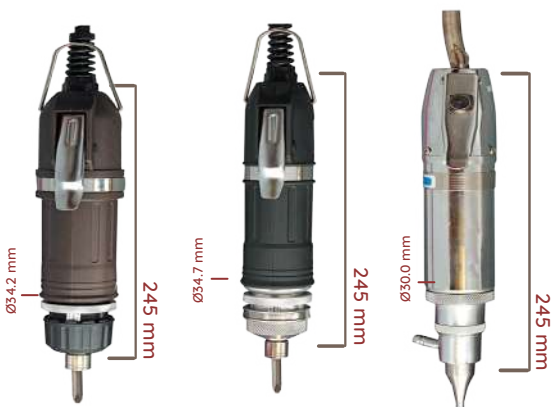
TORQUE REFERENCE

Output Torque(kgf-cm)

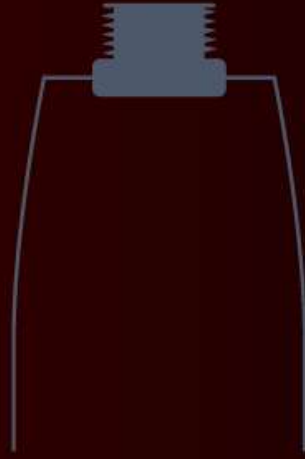


DTV-3000

Scale



MODEL		DTV-3000
FREE SPEED (rpm)		2000-3300
OUTPUT TORQUE RANGE	N.m	0.05-0.4
	lbf.in	0.43-3.5
	kgf.cm	0.5-4.0
START		LEVER START
CONTROLLER		ST-2S,BT-4S



DR.  TORQUE®

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