










# INDUSTRIAL TIGHTENING SOLUTION

Smart Controller & DC Transducerized Screwdrivers

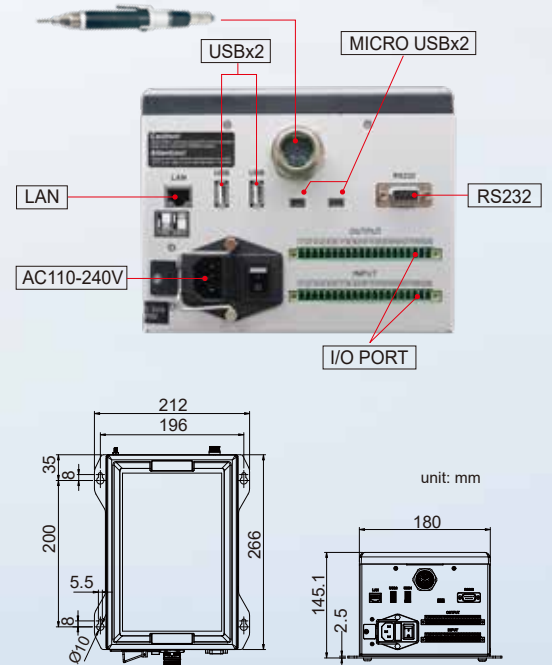


# SUMAKE®

MAKE JOBS BETTER THAN EVER

Controller	Controller Model	 SMT-C1                      SMT-C1B		 SMT-C2	 SCT-C1
	Feature	<ol style="list-style-type: none"> <li>1 Torque Control</li> <li>2 Thread Control</li> </ol>		<ol style="list-style-type: none"> <li>1 Torque Control</li> <li>2 Angle Control</li> <li>3 Thread Control</li> </ol>	<ol style="list-style-type: none"> <li>1 Current Control</li> <li>2 Angle Control</li> </ol>
	Input Voltage	AC 115/230V 50/60Hz, 6.3A		AC 115/230V 50/60Hz, 6.3A	AC 115/230V 50/60Hz, 6.3A
	Output Voltage	40V d.c. Max. 9A/360W		40V d.c. Max. 9A/360W	40V d.c. Max. 9A/360W
	Accuracy	3 Sigma 7.5%		3 Sigma 5%	±5%
	Control Panel	Button type 100mm(L) x 37mm(H) Screen		10" Touch screen	Button type 100mm(L) x 37mm(H) Screen
	Dimensions(mm)	241.4(L) x 185(W) x 146.8(H)		266(L) x 180(W) x 145.1(H)	241(L) x 185(W) x 127(H)
	Weight	3.74kg (8.25 lbs.)		4.08kg (8.99 lbs.)	3.7kg (8.16 lbs.)
	Detection Torque Value	0.1~25 N-m		0.1~7 N-m	0.3~7 N-m
	Communication Protocol	ASCII Code		Modbus	ASCII Code
	External Connection Input Signals	Start / Reverse / Disable / Confirm / Clear screw count / Gate / Sequence Cleared		Start IN(Remote) / Reverse(Remote) / Disable / Enable / Confirm / Clear / Sequence Clear / Reboot / UserDefine 1 / UserDefine 2 / Gate Once / Switch Edit Job	Start / Reverse / Disable / Confirm / Clear screw count / Gate / Sequence Cleared
	External connection Output Signals	OK / NG / OK ALL / Start / Reverse		-	OK / NG / OK ALL / Start / Reverse
	Serial Interface	RS-232 x 1 ,Micro SD ,LAN		RS-232 x 1, LAN	RS-232 x 1 ,Micro SD ,LAN
Suitable Screwdriver	Torque Range	0.1 ~ 7 Nm	2.4 ~ 25 Nm	0.13 ~ 7 Nm	0.3 ~ 7 Nm
	Start Mode	Push / Lever / Lever or Push Lever (Push) or Remote		Remote / Push / Lever Lever & Push / Lever or Push Lever or Push or Remote	Remote / Lever
	Straight Type	 SMT-10SI / SMT-30SI SMT-30I / SMT-50I SMT-70I	 SMT-120I SMT-180I SMT-250I	 SMT-A10SI / SMT-A24SIH SMT-A30SI / SMT-A30I SMT-A50I / SMT-A70I	 SCT-121I / SCT-30I SCT-50I / SCT-70I
	Angle Type	 SMT-30A SMT-50A SMT-70A	 SMT-120A SMT-180A SMT-250A	Coming soon	Coming soon

## Precision Torque & Angle Control Perfected For Industrial 4.0



- ✓ High sampling frequency
- ✓ Data storage & export
- ✓ Torque curve displayed on controller
- ✓ Easy & fast firmware / software update
- ✓ 2 modes (normal / advance mode)
- ✓ Tightening programs can export or import
- ✓ I/O definition customized by user
- ✓ Modbus protocol for RS232 and RJ45 interfaces

### Improve Production Efficiency With Data Connection:

#### Historical Data (in all locations)

- Controller can save up to 1 million history data with export function and monitor will show the last 100 times history data.
- User can select time period for exporting tightening history data.

#### Controller Displays Torque Curve Graph

- A Curve graphic displays on the controller after each tightening.
- The graphic can showed by Speed/Time \ Torque/Time \ Angle/Time \ Power/Time.
- 3 setting of sampling period for 0.5/1/2/ mini second (ms).

#### Tightening History Data Export

- Two methods for data export:
  - FTP (Temporary)
  - USB storage



All history data be saved

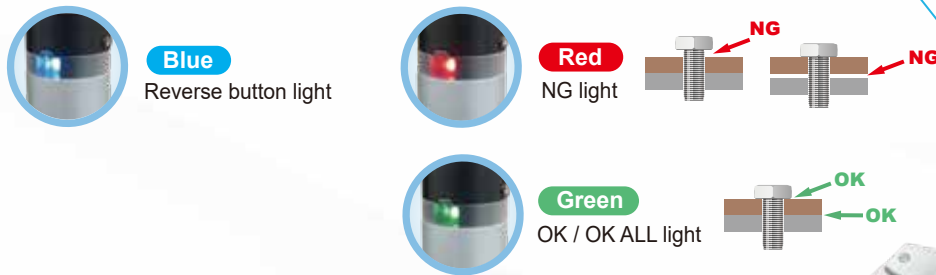


View all tightening data or filter to display OK or NG data

The graphic displays tightening result, and other data save in the database or USB device

# Transducerized DC Torque & Angle Controlled Screwdriver

## Visible Signal LED System



## Adjustable Lever/ Push sensitive

Sets the sensitivity (10%-90%) to start up the tool

## Torque Transducer (Made in Germany)



## Build-in LED Light

Illuminate work area

LED Mode: Constantly lit / off / Lit during operation

## Locking Space

For automation assembly applications.

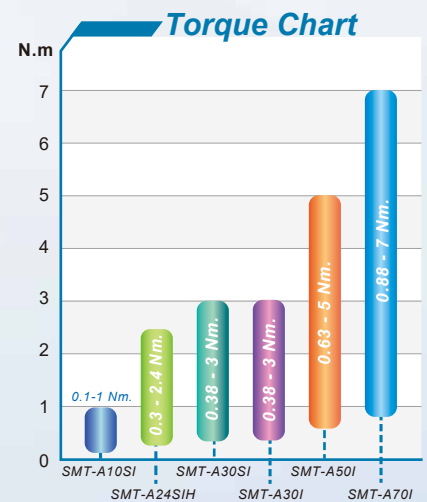


Suction head assembly



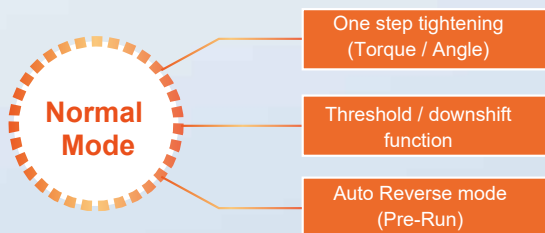
Clamp

## Reverse Button

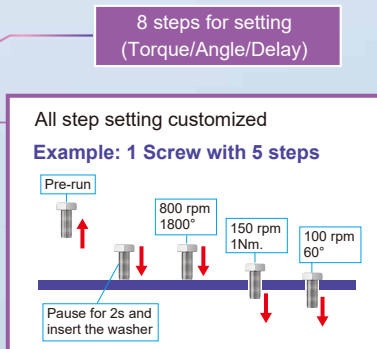


## Ensure Fastening Quality:

### ➔ Tightening Mode

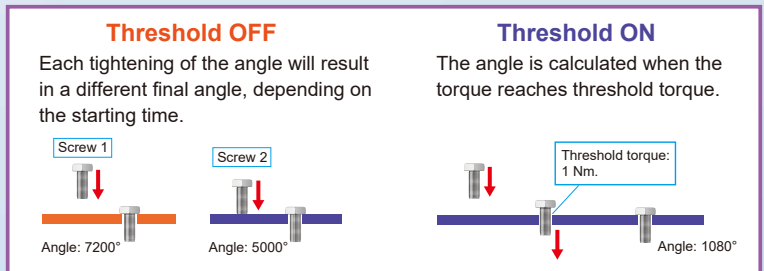


### ➔ Advanced Mode

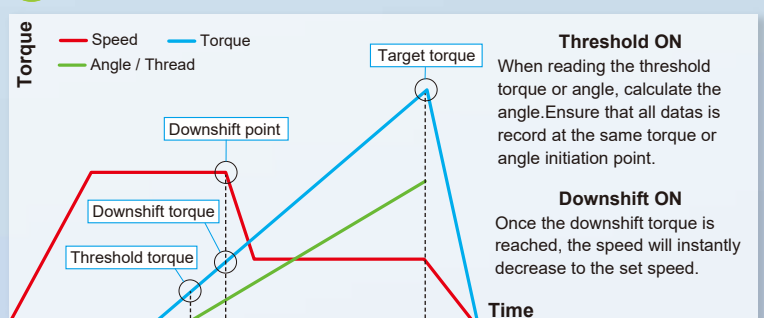


\*Normal mode is a smart mode for customers to set up program quickly and easily.  
\*In normal mode, one step is applied for forward tightening, with three functions.

### ➔ Threshold Function



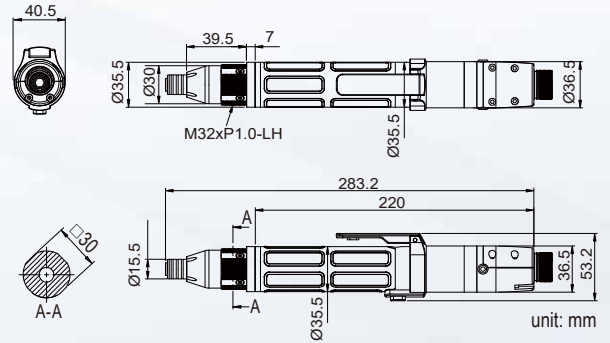
### ➔ Threshold / Downshift Curve Graph



# Transducerized DC Electric Torque & Angle Controlled Screwdriver



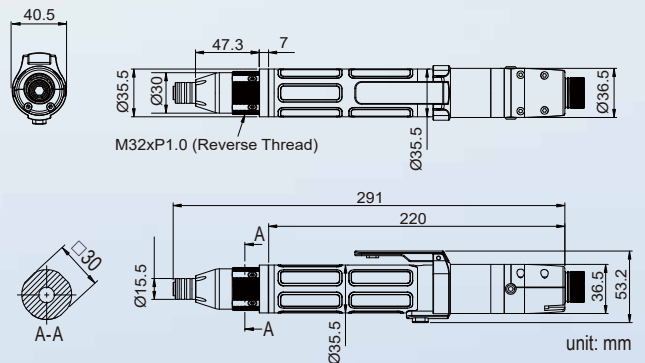
**SMT-A10SI**



Model No.	Torque			Repeatable Torque Accuracy	Free Speed (r.p.m)	Input Voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power Controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-A10SI	0.1~1	1.02~10.2	0.88~8.85	3 Sigma AVG., 5%	60~980	DC40V	90W	644	282	✓	✓	✓	SMT-C2	B, C, D



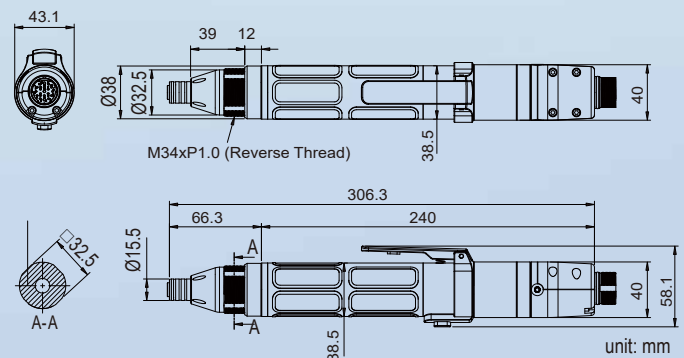
**SMT-A24SIH**  
**SMT-A30SI**



Model No.	Torque			Repeatable Torque Accuracy	Free Speed (r.p.m)	Input Voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power Controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-A24SIH	0.3~2.4	3.06~24.48	2.66~21.24	3 Sigma AVG., 5%	60~2000	DC40V	90W	692	291	✓	✓	✓	SMT-C2	B, D, F
SMT-A30SI	0.38~3	3.88~30.60	3.36~26.55		60~980			718	291					

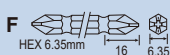
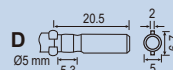
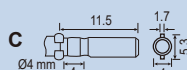
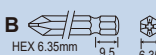
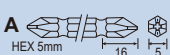


**SMT-A30I**  
**SMT-A50I**  
**SMT-A70I**



Model No.	Torque			Repeatable Torque Accuracy	Free Speed (r.p.m)	Input Voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power Controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-A30I	0.38~3	3.88~30.6	3.36~26.55	3 Sigma AVG., 5%	60~1600	DC40V	90W	900	307	✓	✓	✓	SMT-C2	A, B, D
SMT-A50I	0.63~5	6.43~51.00	5.58~44.26		60~1100			900	307					A, B
SMT-A70I	0.88~7	8.98~71.40	7.79~61.96		60~660			900	307					B

Bit Type:



★Screwdriver comes standard with bit type B HEX 6.35mm

# Transducerized DC Torque Controlled Screwdriver

## Visible Signal LED System

**Green** OK (green & short buzz)

**Red** NG (red)

**Green** OK ALL (green & long buzz)



OK

NG

Reverse

## Start Mode

Lever start / Push start  
Lever or push start

## Locking Space

For automation assembly applications

Suction head assembly



Clamp

## Reverse Button

## Innovative Brushless Motor

Reduces noise and vibration while requiring less maintenance

## Torque Transducer

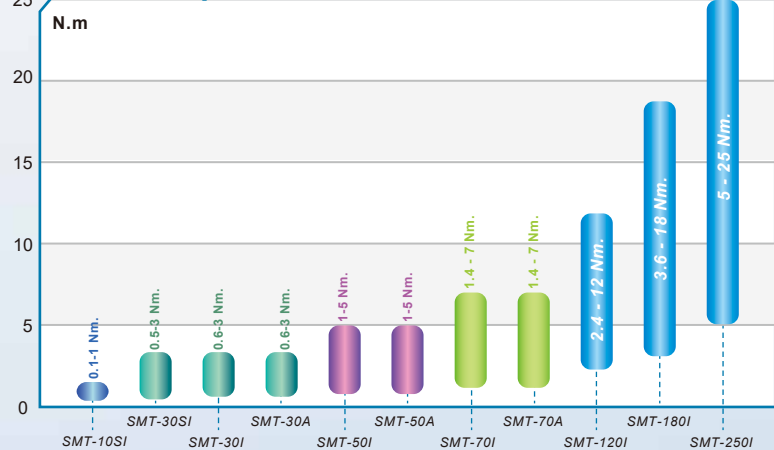
(Made in Germany)

## Build-In LED Light

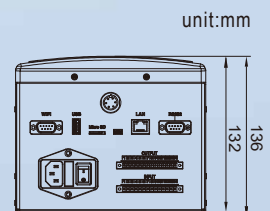
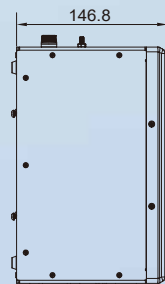
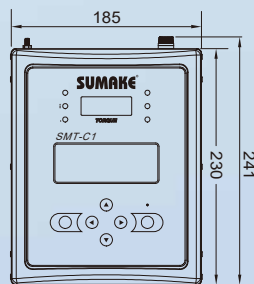
Illuminate work area.

LED mode:  
constantly lit / off / lit during operation

## Torque Chart



- ✓ An economically efficient torque control screw tightening solution designed for Industry 4.0, delivering efficiency and value.
- ✓ Able to set up and save Max. 50 sets of job.
- ✓ Easily set and change tightening parameters through control panel or DAS system program (connect with PC)
- ✓ Quickly switch the jobs using the external barcode scanner.
- ✓ The tightening data can be quickly retrieved through the protocol data or SD card.
- ✓ RS232 / ethernet interfaces for data collection.

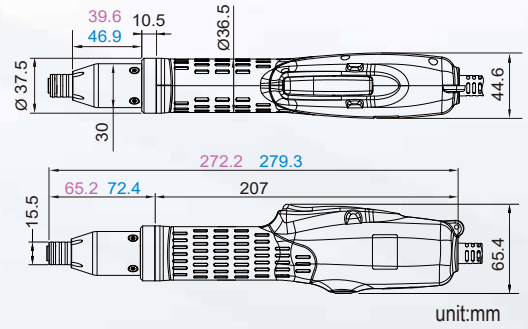


unit:mm

# Transducerized DC Torque Controlled Screwdriver



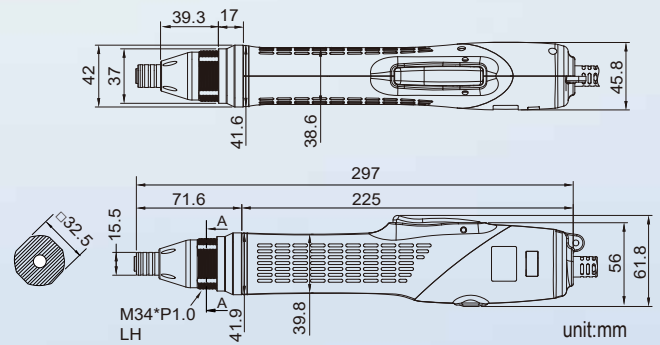
**SMT-10SI**  
**SMT-30SI**



Model No.	Torque			Repeatable Torque Accuracy	Free speed (r.p.m)	Input voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-10SI	0.1~1	1.02~10.2	0.88~8.85	3 Sigma	100~980	DC40V	90W	680	280	✓	✓	✓	SMT-C1	B,C,D
SMT-30SI	0.5~3	5.1~30.60	4.4~26.55	AVG., 7.5%	100~980									B,D,F



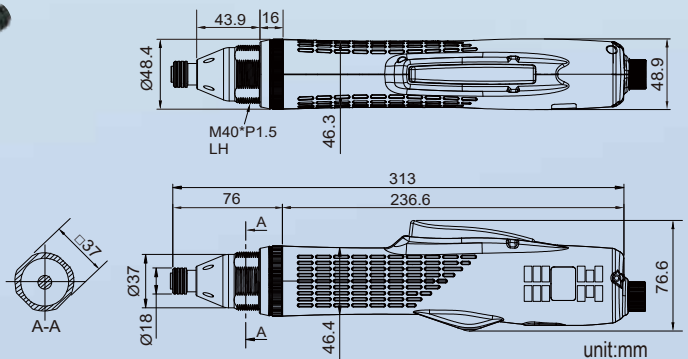
**SMT-30I**  
**SMT-50I**  
**SMT-70I**



Model No.	Torque			Repeatable Torque Accuracy	Free speed (r.p.m)	Input voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-30I	0.6~3	6.11~30.59	5.31~26.55	3 Sigma AVG., 7.5%	160~1600	DC40V	90W	830	297	✓	✓	✓	SMT-C1	A,B,D
SMT-50I	1~5	10.2~51.00	8.85~44.25		110~1100									A,B
SMT-70I	1.4~7	14.27~71.39	12.39~61.96		70~660									B



**SMT-120I**  
**SMT-180I**



Model No.	Torque			Repeatable Torque Accuracy	Free speed (r.p.m)	Input voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-120I	2.4~12	24.5~122.4	21.24~106.20	3 Sigma	100~1000	DC40V	90W	1130	314	✓	✓	✓	SMT-C1B	B,W
SMT-180I	3.6~18	36.71~183.6	31.86~159.30	AVG., 7.5%	60~600									

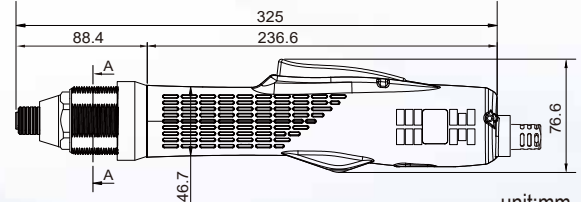
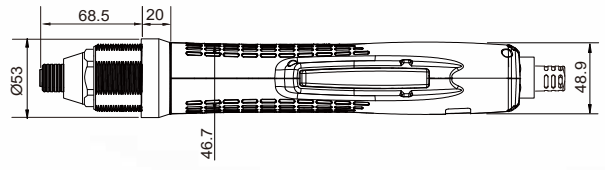


★Screwdriver comes standard with bit type B HEX 6.35mm

# Transducerized DC Torque Controlled Screwdriver



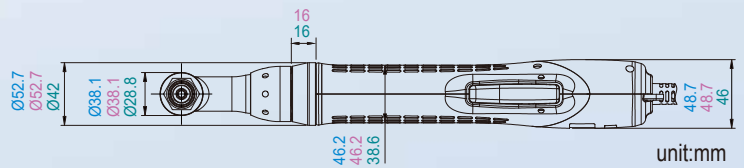
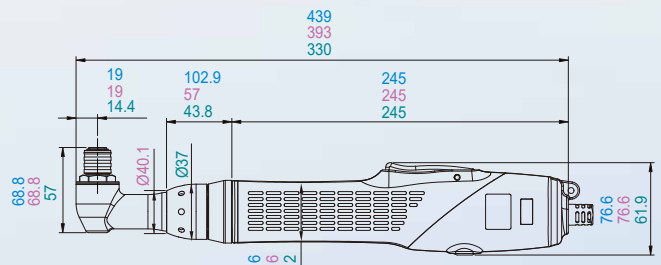
**SMT-250I**



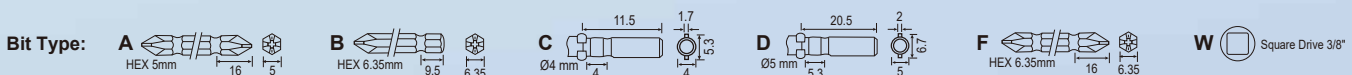
Model No.	Torque			Repeatable Torque Accuracy	Free speed (r.p.m)	Input voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power controller	Bit Type
	N.m	kgf.cm	Lbf.in											
<b>SMT-250I</b>	5~25	51~254.9	44.2~221.2	3 Sigma AVG., 7.5%	40~400	DC40V	90W	1790	325	✓	✓	✓	SMT-C1B	B,W



**SMT-30A**    **SMT-120A**    **SMT-250A**  
**SMT-50A**    **SMT-180A**  
**SMT-70A**



Model No.	Torque			Repeatable Torque Accuracy	Free Speed (r.p.m)	Input Voltage	Power Consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power Controller	Bit Type
	N.m	kgf.cm	Lbf.in											
<b>SMT-30A</b>	0.6~3	6.12~30.59	5.31~26.55	3 Sigma AVG., 7.5%	120~1100	DC40V	90W	1150	330	✓	✓	✓	SMT-C1	B,W
<b>SMT-50A</b>	1~5	10.2~51.00	8.85~44.25		80~800				SMT-C1				B,W	
<b>SMT-70A</b>	1.4~7	14.28~71.39	12.39~61.96		50~450				SMT-C1				B,W	
<b>SMT-120A</b>	2.4~12	24.5~122.4	21.24~106.20		100~1000				SMT-C1B				B,W	
<b>SMT-180A</b>	3.6~18	36.71~183.6	31.86~159.30		60~600				SMT-C1B				B,W	
<b>SMT-250A</b>	5~25	51.00~254.93	44.25~221.25		40~400				SMT-C1B				B,W	

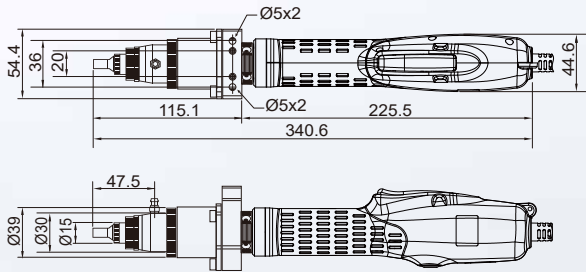


★Screwdriver comes standard with bit type B HEX 6.35mm

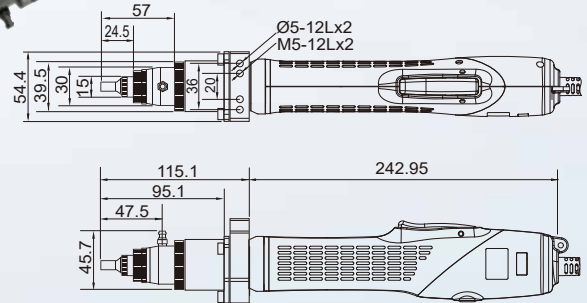
# Transducerized DC Torque Controlled Screwdriver



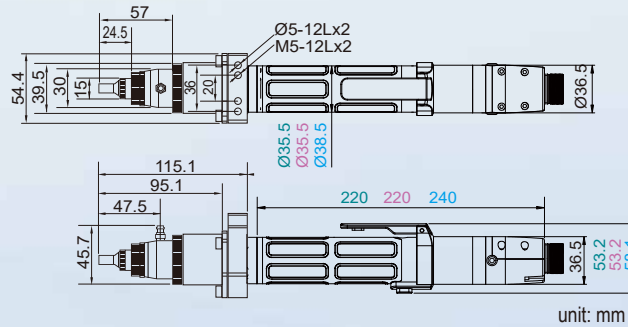
Body:  
**SMT-10SI, 30SI**



Body:  
**SMT-30I, 50I, 70I**



Body:  
**SMT-A10SI**      **SMT-A30I**  
**SMT-A24SIH**   **SMT-A50I**  
**SMT-A30SI**      **SMT-A70I**



**Vacuum Pump**  
EAP-200A/C 110-120V  
EAP-200E/C 220-240V

## Nosepiece Sizes unit: mm

Suction Head Model (d2)		Nosepiece	d1	d2	DØ	H	Bit Type	Part No.			
								Bits No.	Ød x Mini L1 x L		
	For SMT-10SI / SMT-A10SI	EP SH-SMT-SS5.5		EPP11032-15	3.5	5.5	6.5	2	P10136-5	Ø3.0 x 50 x 80	
	For SMT-30SI / SMT-A24SIH / SMT-A30SI	EP SH-SMT-S5.5			3.5	5.5	6.5	2		P10125-14	Ø3.0 x 50 x 75
		EP SH-SMT-S6.5			4.5	6.5	7.5	2		P10125-18	Ø4.0 x 75
		EP SH-SMT-S7.5			5.5	7.5	8.5	2		P10125-5	Ø5.0 x 75
	For SMT-30I / SMT-A30I / SMT-50I / SMT-A50I / SMT-70I / SMT-A70I	EP SH-SMT-5.5		EPP11032-15	3.5	5.5	6.5	2		P10125-4	Ø3.0 x 50 x 75
	EP SH-SMT-6.5	4.5			6.5	7.5	2	P10125-18		Ø4.0 x 75	
	EP SH-SMT-7.5	5.5			7.5	8.5	2	P10125-5		Ø5.0 x 75	

- \*Determine suction head by screwdriver size and noise piece size.
- \*Order all parts: screwdriver including suction head, power supply and vacuum pump.

## Torque Reaction Arm & Clamp

Model	Folded Position Control Torque Reaction Arm				Folded Torque Reaction Arm			Linear Torque Reaction Arm	
	ST-TAIP030	ST-TAIP050	ST-TAIP051	ST-TAIP070	ST-TAIS030SB	ST-TAIS050SB	ST-TAIS070SB	TA-22050B	TA-22070B
Applicable Models	SMT-10SI / 30SI / 30I / 50I / 70I / 120I / 180I / 250I	SMT-10SI / 30SI / 30I / 50I / 70I / 120I / 180I	SMT-10SI / 30SI / 30I / 50I / 70I / 120I / 180I / 250I	SMT-10SI / 30SI / 30I / 50I / 70I / 120I / 180I / 250I	SMT-10SI / 30SI / 30I / 50I / 70I	SMT-10SI / 30SI / 30I / 50I / 70I / 120I / 180I	SMT-10SI / 30SI / 30I / 50I / 70I / 120I / 180I	SMT-10SI / 30SI / 30I / 50I / 70I / 120I / 180I / 250I	SMT-10SI / 30SI / 30I / 50I / 70I / 120I / 180I / 250I
Clamp (option) Collar	<b>TA22050-25A-1</b> Clamp for SMT-10SI / SMT-30SI				<b>TA22050-25B-1</b> Clamp for SMT-30I / 50I / 70I / A30I / A50I / A70I <b>TA22050-25B-2</b> Clamp for SMT-120I / 180I <b>TA22050-25B-3</b> Clamp for SMT-250I				



# Current Controlled Screwdriver

## Features:

- ✔ 15 jobs, 15 job sequences and various tightening steps allow user to set according to the needs.
- ✔ Full control and monitoring of the entire screw rundown process.
- ✔ Provide free software and communication protocol (ASCII Code) for users to quickly set up.
- ✔ Full traceability of defects and process visibility.
- ✔ Able to connected to PC/PLC through RS232, ethernet or external Wi-Fi module for executing the job call out, parameters setting or data transfer.

# Current & Angle Controlled DC Screwdriver

## Innovative Brushless Motor

Reduces noise and vibration resulting in lower maintenance.

## Ergonomic Design

Covered rubber grip offers better user handling comfort during the operation.

SCT-12I

SCT-20I

SCT-50I

SCT-70I

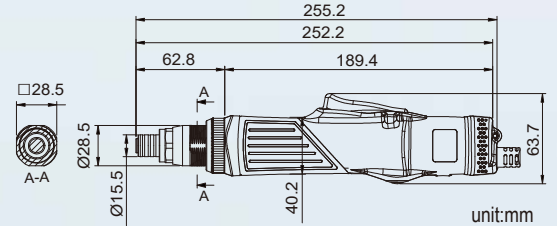
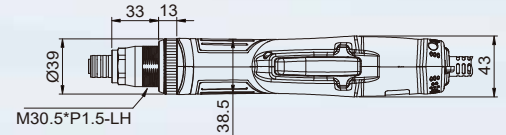
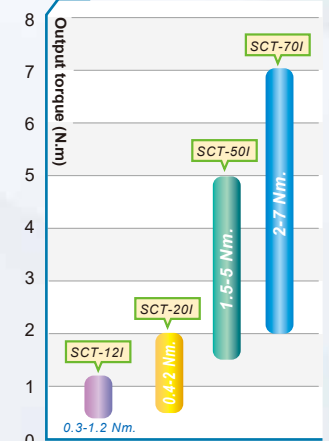


## Reverse Button & LED

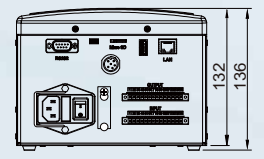
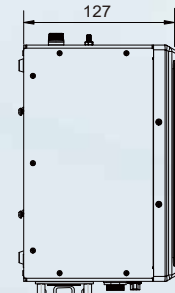
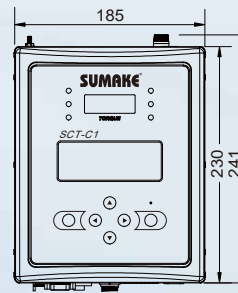
## Locking Space

For automation assembly applications.

## Torque Chart

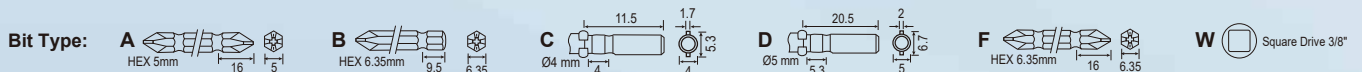


SCT-C1



Model No.	Input Voltage	Output Voltage	Function Period	External Dimensions (mm)	Weight
SCT-C1	AC 115 / 230V ~ 50 / 60Hz, 6.3A	40V d.c. Max. 9A / 360W	1.5 s ON / 4.5 s OFF	241(L) x 185(W) x 127(H)	3.7 kg (8.16 lbs.)

Model No.	Torque			Repeatable Torque Accuracy	Free speed (r.p.m)	Input voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SCT-12I	0.3~1.2	3.06~12.24	2.66~10.62	±5%	100~1000	DC40V	90W	743	255	✓	✓	✓	SCT-C1	B,D
SCT-20I	0.4~2	4.08~20.39	3.54~17.7		100~1000									
SCT-50I	1.5~5	15.3~51.0	13.28~44.25		100~1000									
SCT-70I	2~7	20.39~71.38	17.7~61.95		100~800									



★Screwdriver comes standard with bit type B HEX 6.35mm



Electric Screwdrivers



Cordless Tools



Industrial Air Screwdriver



Oil Pulse Tool



Automatic Screw Feeder



Torque Reaction Arm



Screwdriver Bits



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