INDUSTRIAL
TIGHTENING SOLUTION

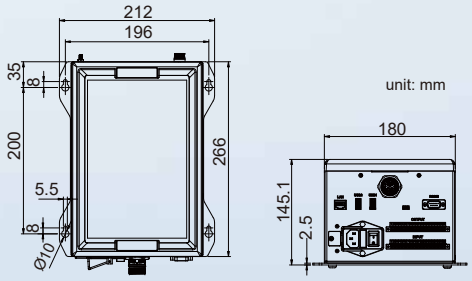
Smart Controller & DC Transducerized Screwdrivers

SUMAKE®

MAKE JOBS BETTER THAN EVER

Controller	Controller Model	SMT-C1	SMT-C1B	SMT-C2	SCT-C1
	Feature	1 Torque Control 2 Thread Control		1 Torque Control 2 Angle Control 3 Thread Control	1 Current Control 2 Angle Control
	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
	Dimentions(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 Singals	OK / NG / OK ALL / Start / Reverse		OK/NG / NG-High, NG-Low / OK-Sequence / OK-JOB / Tool Running / Tool Trigger / Reverse / UserDefine1 / UserDefine2	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-12I / SCT-20I 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.

All history data be saved

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

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

Tightening History Data Export

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

Transducerized DC Torque & Angle Controlled Screwdriver

Visible Signal LED System

Blue
Reverse button light

Red
NG light

Green
OK / OK ALL light

Adjustable Lever/ Push sensitive
Sets the sensitivity (10%-90%) to start up the tool

Reverse Button

Torque Transducer
(Made in Germany)

Build-in LED Light
Illuminate work area

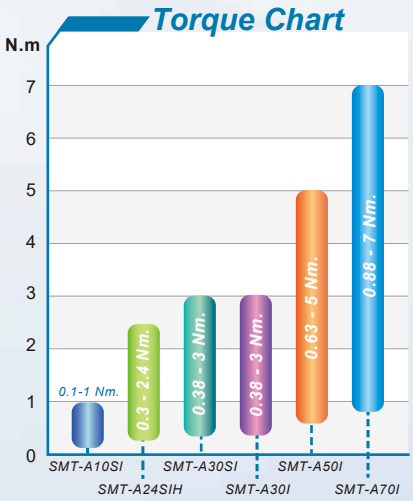
LED Mode: Constantly lit / off / Lit during operation

Locking Space
For automation assembly applications.

Suction head assembly

Clamp

Torque Chart



Ensure Fastening Quality:

Tightening Mode

Normal Mode

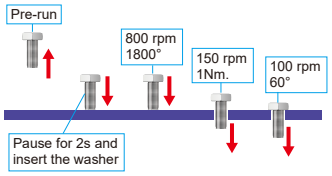
- One step tightening (Torque / Angle)
- Threshold / downshift function
- Auto Reverse mode (Pre-Run)

Advanced Mode

- 8 steps for setting (Torque/Angle/Delay)

All step setting customized

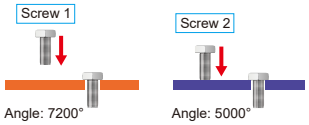
Example: 1 Screw with 5 steps



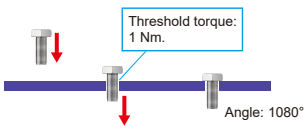
*Normal mode is a smart mode for customers to set up program quickly and easily.
*In normal mode, one step is applied for foward tightening, with three functions.

Threshold Function

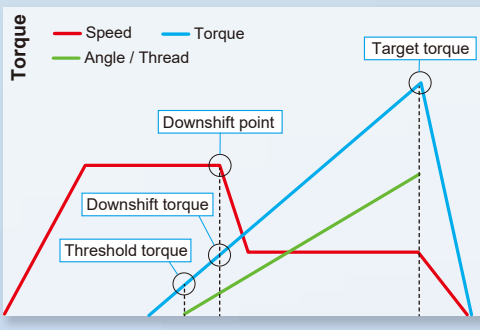
Threshold OFF
Each tightening of the angle will result in a different final angle, depending on the starting time.



Threshold ON
The angle is calculated when the torque reaches threshold torque.



Threshold / Downshift Curve Graph

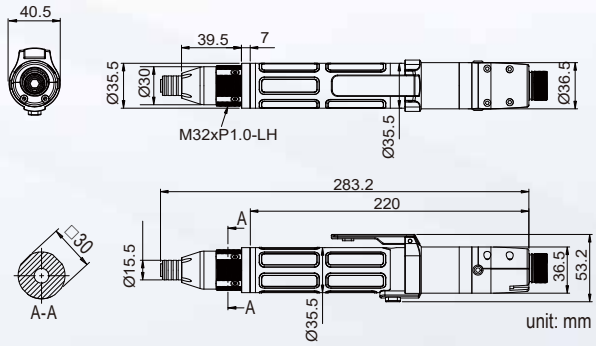


Threshold ON
When reading the threshold torque or angle, calculate the angle.Ensure that all datas is record at the same torque or angle initiation point.

Downshift ON
Once the downshift torque is reached, the speed will instantly decrease to the set speed.

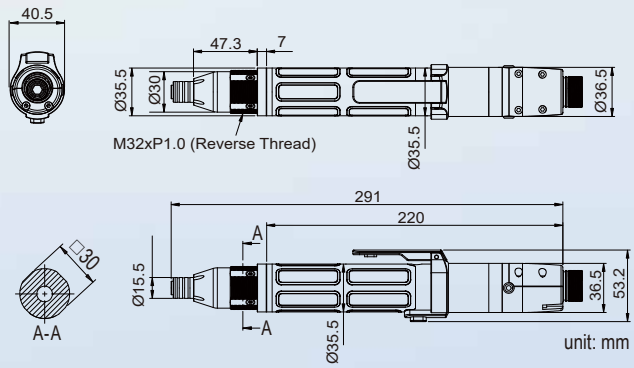
Transducerized DC Electric Torque & Angle Controlled Screwdriver

SMT-A10SI



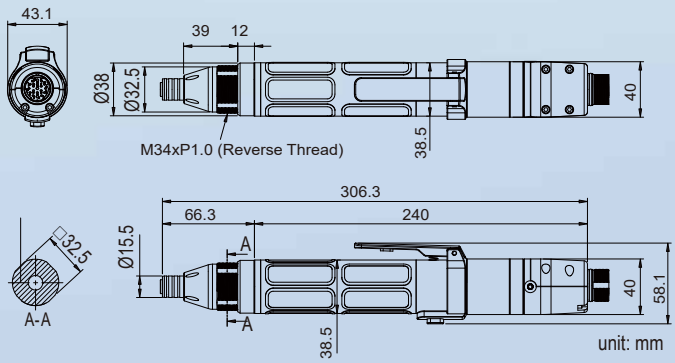
Model No.	Torque			Repeatable Torque Accuracy	Free Speed (r.p.m)	Input Voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power Controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-A10SI	0.1~1	1.02~10.2	0.88~8.85	3 Sigma AVG., 5%	60~980	DC40V	90W	644	282	✓	✓	✓	SMT-C2	B, C, D

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)

Suction head assembly

Clamp

Start Mode
Lever start / Push start
Lever or push start

Locking Space
For automation assembly applications

Reverse Button

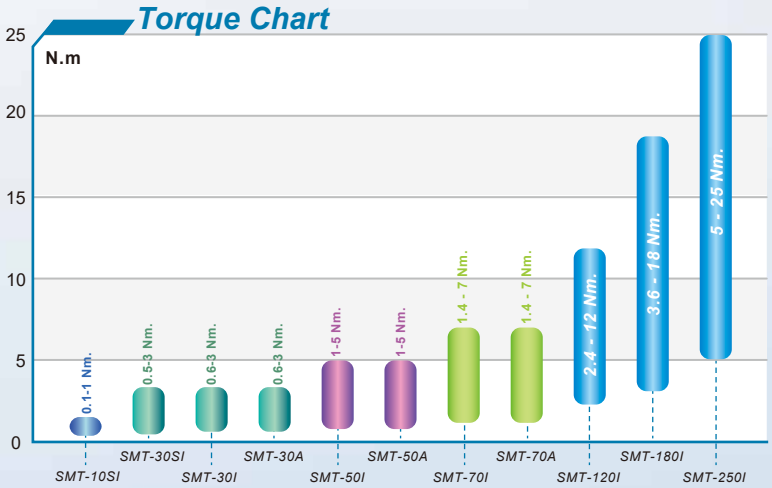
Innovative Brushless Motor
Reduces noise and vibration while requiring less maintenance

Torque Transducer
(Made in Germany)

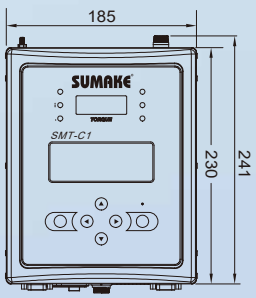
Build-In LED Light
Illuminate work area.

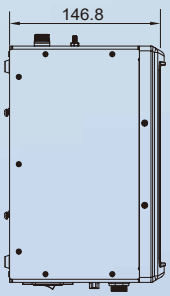
LED mode:
constantly lit / off / lit during operation

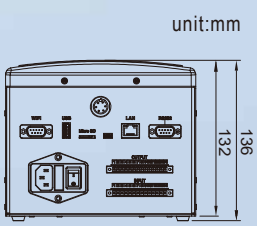
Torque Chart



- 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)
- Quicky 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.

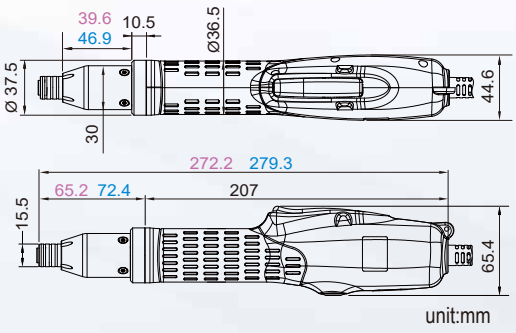






Transducerized DC Torque Controlled Screwdriver

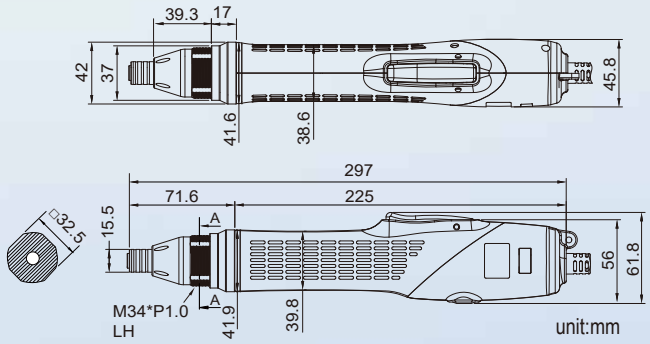
SMT-10SI
SMT-30SI



unit:mm

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 AVG., 7.5%	100~980	DC40V	90W	680	280	✓	✓	✓	SMT-C1	B,C,D
SMT-30SI	0.5~3	5.1~30.60	4.4~26.55		100~980									B,D,F

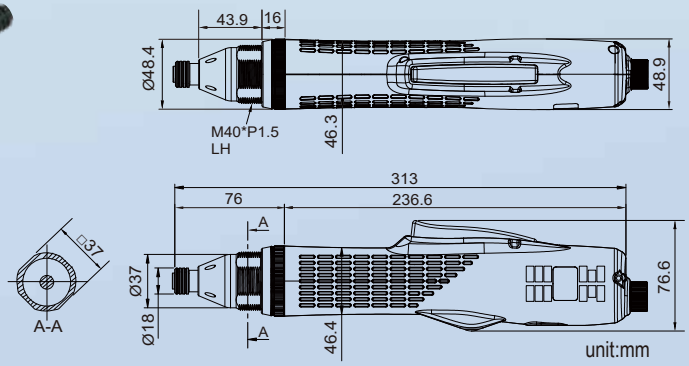
SMT-30I
SMT-50I
SMT-70I



unit:mm

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
SMT180I



unit:mm

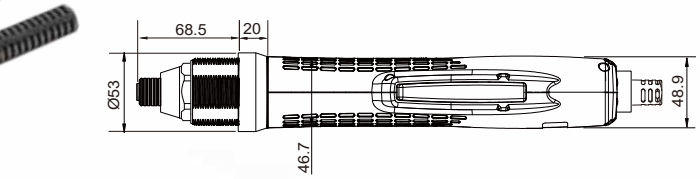
Model No.	Torque			Repeatable Torque Accuracy	Free speed (r.p.m)	Input voltage	Power consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-120I	2.4~12	24.5~122.4	21.24~106.20	3 Sigma AVG., 7.5%	100~1000	DC40V	90W	1130	314	✓	✓	✓	SMT-C1B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

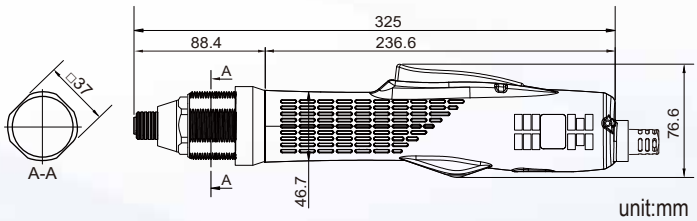
Bit Type:

★Screwdriver comes standard with bit type B HEX 6.35mm

Transducerized DC Torque Controlled Screwdriver

SMT-250I

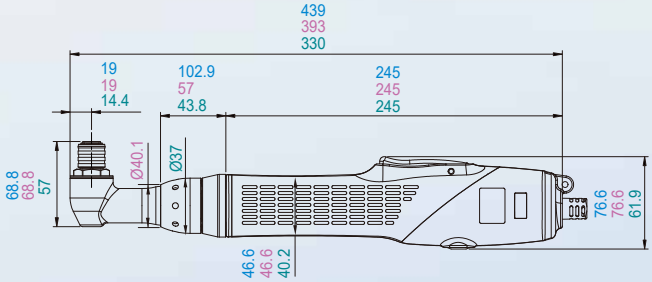


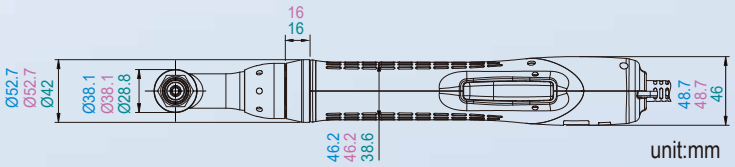


unit:mm

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-250I	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





unit:mm

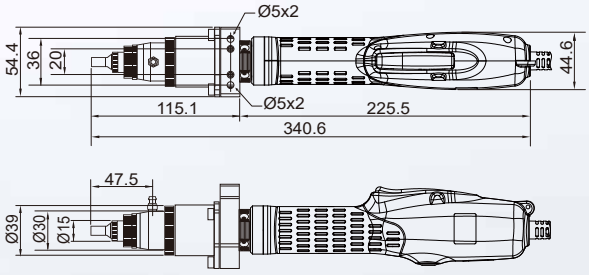
Model No.	Torque			Repeatable Torque Accuracy	Free Speed (r.p.m)	Input Voltage	Power Consumption	Weight (g)	Length (mm)	ESD (Anti-Static)	CE	RoHS	Power Controller	Bit Type
	N.m	kgf.cm	Lbf.in											
SMT-30A	0.6~3	6.12~30.59	5.31~26.55	3 Sigma AVG., 7.5%	120~1100	DC40V	90W	1150	330	✓	✓	✓	SMT-C1	B,W
SMT-50A	1~5	10.2~51.00	8.85~44.25		80~800			1150	330				SMT-C1	B,W
SMT-70A	1.4~7	14.28~71.39	12.39~61.96		50~450			1150	330				SMT-C1	B,W
SMT-120A	2.4~12	24.5~122.4	21.24~106.20		100~1000			2230	393				SMT-C1B	B,W
SMT-180A	3.6~18	36.71~183.6	31.86~159.30		60~600			2230	393				SMT-C1B	B,W
SMT-250A	5~25	51.00~254.93	44.25~221.25		40~400			2810	439				SMT-C1B	B,W

Bit Type:

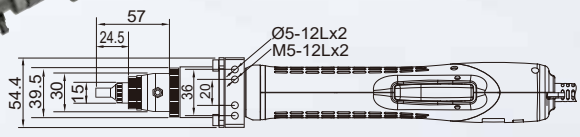
★Screwdriver comes standard with bit type B HEX 6.35mm

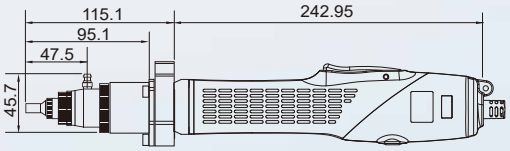
Transducerized DC Torque Controlled Screwdriver

Body:
SMT-10SI, 30SI

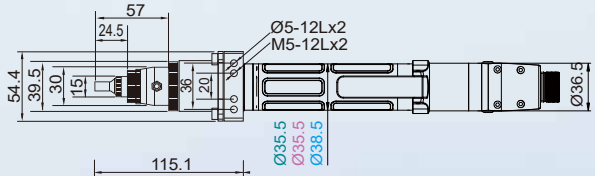


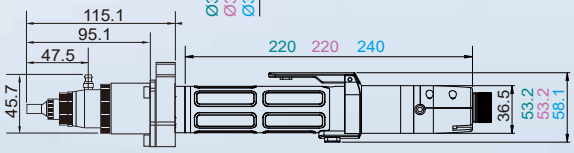
Body:
SMT-30I, 50I, 70I





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

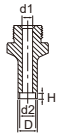
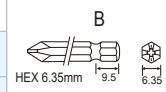
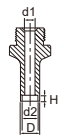
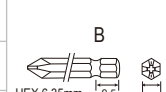


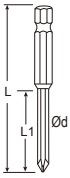


unit: mm

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

Nosepiece Sizes unit: mm

Suction Head Model (d2)				Nosepiece		d1Ø	d2Ø	DØ	H	Bit Type	Part No. Bits No.	Part No. Ød x Mini L1 x L
	For SMT-10SI SMT-A10SI	EPSH-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	EPSH-SMT-S5.5			EPP11032-15	3.5	5.5	6.5	2		P10125-14	Ø3.0 x 50 x 75
		EPSH-SMT-S6.5			EPP11032-17	4.5	6.5	7.5	2		P10125-18	Ø4.0 x 75
		EPSH-SMT-S7.5			EPP11032-18	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	EPSH-SMT-5.5			EPP11032-15	3.5	5.5	6.5	2		P10125-4	Ø3.0 x 50 x 75
		EPSH-SMT-6.5			EPP11032-17	4.5	6.5	7.5	2		P10125-18	Ø4.0 x 75
		EPSH-SMT-7.5			EPP11032-18	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-A10SI / A24SIH / A30SI / A30I / A50I / A70I		SMT-10SI / 30SI / 30I 50I / 70I / 120I / 180I SMT-A10SI / A24SIH A30SI / A30I / A50I / A70I	SMT-10SI / 30SI / 30I / 50I 70I / 120I / 180I / 250I SMT-A10SI / A24SIH A30SI / A30I / A50I / A70I	SMT-10SI / 30SI / 30I 50I / 70I SMT-A10SI / A24SIH A30SI / A30I / A50I / A70I	SMT-10SI / 30SI / 30I 50I / 70I / 120I / 180I SMT-A10SI / A24SIH A30SI / A30I / A50I / A70I	SMT-10SI / 30SI / 30I / 50I 70I / 120I / 180I / 250I SMT-A10SI / A24SIH / A30SI A30I / A50I / A70I		
Clamp (option) Collar		**TA22050-25A-1** Clamp for SMT-10SI / SMT-30SI							
		TA22050-25B-1 Clamp for SMT-30I / 50I / 70I / A30I / A50I / A70I **TA22050-25B-2** Clamp for SMT-120I / 180I **TA22050-25B-3** 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.

Innovative Brushless Motor

Reduces noise and vibration resulting in lower maintenance.

Ergonomic Design

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

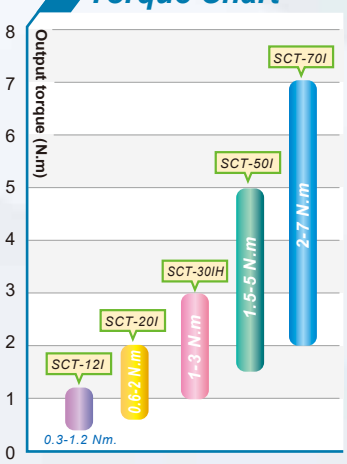
SCT-12I
SCT-20I
SCT-50I
SCT-70I

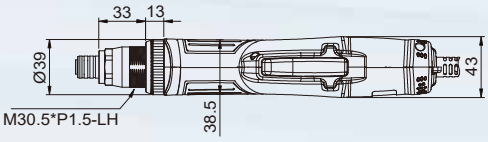
Reverse Button & LED

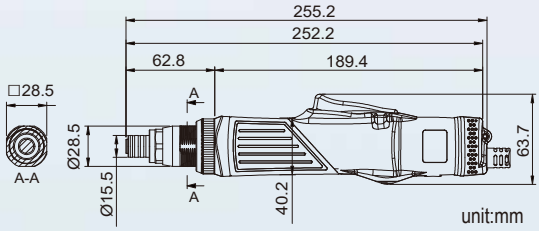
Locking Space

For automation assembly applications.

Torque Chart

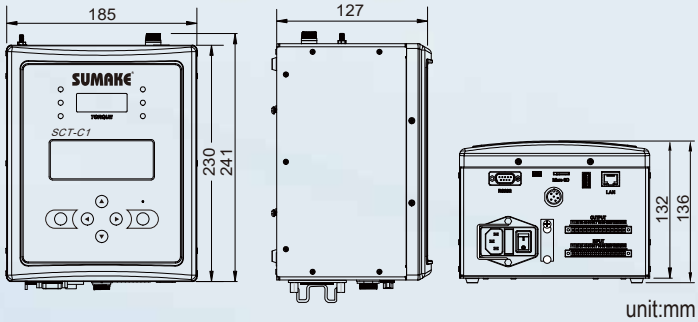






unit:mm

SCT-C1



unit:mm

Model No.	Input Voltage	Output Voltage	Function Period	External Dimentions (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	0.6~2	6.12~20.39	5.32~17.7		100~1000									
SCT-30IH	1~3	10.2~30.6	8.85~26.55		200~1700	DC40V	90W	743	255	✓		✓	SCT-C1	B,D
SCT-50I	1.5~5	15.3~51.0	13.28~44.25		100~1000	DC40V	90W	743	255	✓	✓	✓	SCT-C1	B,D
SCT-70I	2~7	20.39~71.38	17.7~61.95		100~800									

Bit Type: A HEX 5mm 16 5 B HEX 6.35mm 9.5 6.35 C Ø4 mm 11.5 4 1.7 4 5.3 D Ø5 mm 20.5 5.3 2 5 6.7 F HEX 6.35mm 16 6.35 W Square Drive 3/8"

★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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