

ESP Range

ESP7 controller for SLE screwdrivers

Remote interface port
(options 2,3,4,5)

Switchable supply voltage
AC230, 50Hz or
AC120, 60Hz

3 Button keypad for
simple programming

LCD Display for programming
and displaying cycle parameters

Cycle complete indicator

Wall mounting bracket



TECHNICAL FEATURES

MAIN FUNCTIONS	VERSIONS				
	OPTION 1	OPTION 2	OPTION 3	OPTION 4	OPTION 5
PROGRAMMABLE CONTROLLER					
Password protected programming	✓	✓	✓	✓	✓
Automatic tool recognition	✓	✓	✓	✓	✓
Factory default reset facility	✓	✓	✓	✓	✓
Auto Start	✓	✓	✓	✓	✓
Left/Right hand rotation	✓	✓	✓	✓	✓
Tool running indicator	✓	✓	✓	✓	✓
CONTROL CARDS					
Slow start speed control		✓	✓	✓	✓
Rundown speed control		✓	✓	✓	✓
Final speed control		✓	✓	✓	✓
Reverse speed control		✓	✓	✓	✓
Auto reverse			✓	✓	✓
Current control			✓	✓	✓
4 Parameter groups			✓	✓	✓
FAS capability			✓	✓	✓
Remote interface port		✓	✓	✓	✓



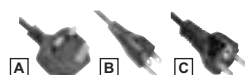
MODEL	PART NUMBER	FOR TOOLS	SWITCHABLE SUPPLY VOLTAGE		WIDTH		DIMENSIONS HEIGHT		DEPTH		WEIGHT	
			AC230	AC120	mm	in.	mm	in.	mm	in.	kg	lb

PROGRAMMABLE CONTROLLER												
ESP7	111362	SLE	50Hz	60Hz	143	5.6	212	8.3	115	4.5	5	11.3

CONTROL CARDS												
OPTION 2	108242										0.21	0.46
OPTION 3 & 4	108252										0.25	0.55
OPTION 5	108262										0.34	0.75

START-UP KIT to be ordered with the controller
Including: **Power cable and plug**

PLUG	DESCRIPTION	PART NO.
A	UK	396843
B	USA	459323
C	European	396853



Example of order

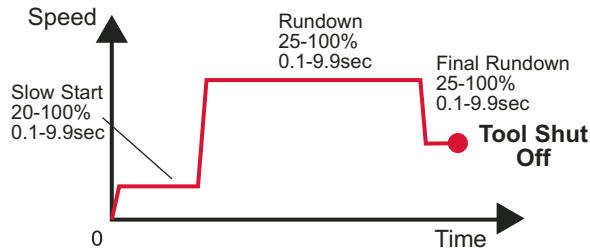
	PART NO.
Tools - Clutch controlled types only	SLE017-A1500-S4Q
Programmable controller	ESP7
Control Card	Option 2
Start-up kit	UK
	1464864
	111362
	108242
	396843



Electric fastening tools

Control Options

OPTION 2 – Clutch Controlled Shut Off with Speed Control

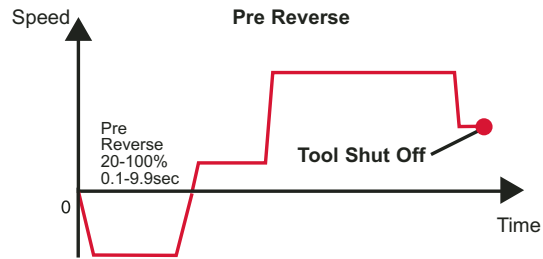
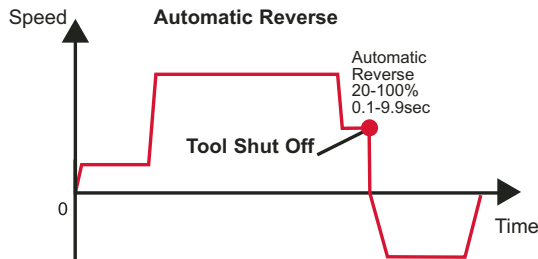


Parameters Tool start mode, external forward, reverse or stop signal functions, slow start time and speed, rundown time and speed, final rundown time and speed, reverse speed

Outputs Cycle finished, cycle not finished, ground 24V DC

Inputs External forward, external reverse, external stop, +24V DC

OPTION 3 – Clutch Controlled Shut Off with Speed Control and Automatic Reverse Options OPTION 4 – Current Controlled Shut Off with Speed Control and Automatic Reverse Options



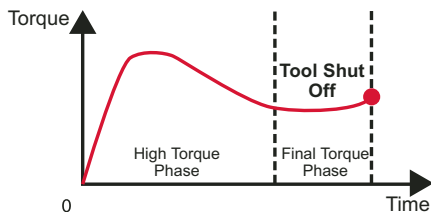
Parameters As per Option 2 plus program selection (maximum of 4), pre reverse time, automatic reverse time after shut off, current percentage (current control only)

Outputs Cycle finished, cycle not finished, ground 24V DC

Inputs External forward, external reverse, external stop, program selection, +24V DC

OPTION 5 – Clutch or Current Controlled Shut Off with Speed Control and Automatic Reverse Option, High Torque Current Control and Fastening Assurance

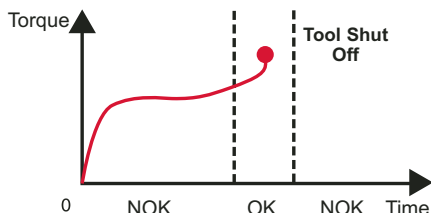
This option has all the features of Options 3 and 4 plus:



High Torque Current Control

This function permits the current control tools to operate at a higher torque level during the rundown than the torque required at shut off.

Applications include those with thread forming screws, self tapping screws in thin materials or soft plastics, self lock nuts and screws, misaligned holes and fragile components.



Fastening Assurance System

The fastening assurance system provides the ability to verify that all the fasteners in an assembly have been correctly fastened. By comparing the timing of electrical signals from the screwdriver with set parameters, the fastening cycle can be monitored and output signals generated for OK and NOK assembly confirmation. The output signals can then be combined to indicate that all the fasteners on the component have been tightened correctly.

Parameters As per Option 2, 3 and 4 plus enable FAS, enable high current, time limits for FAS, number of screws in a group (FAS), group start (FAS), NOK receipt to disable tool (FAS), permit sequencing of groups

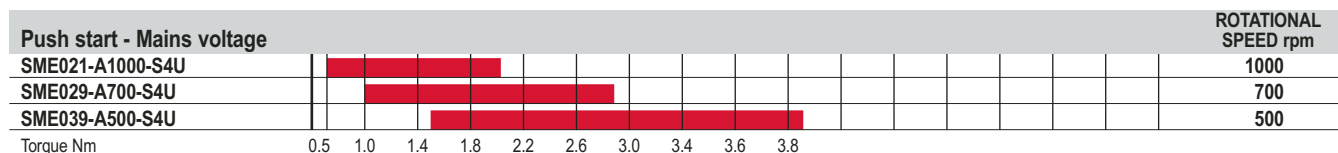
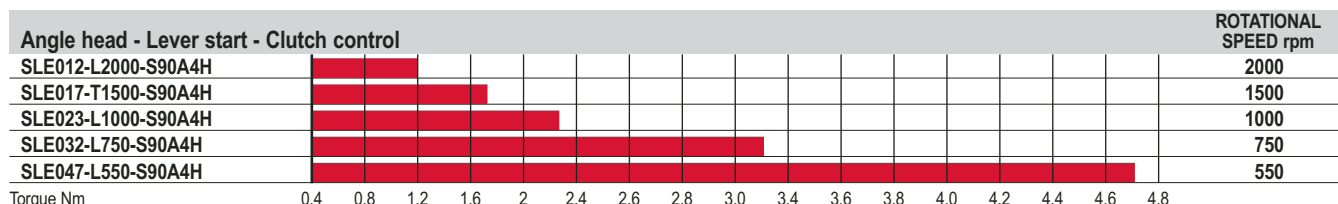
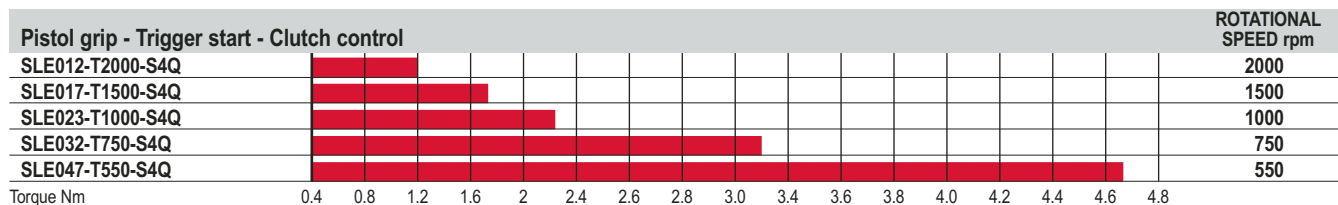
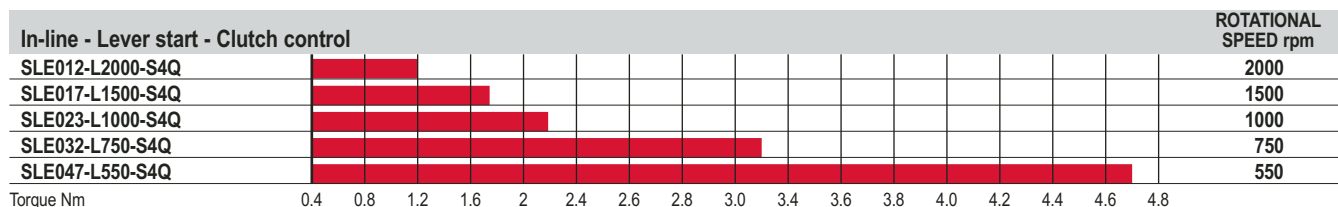
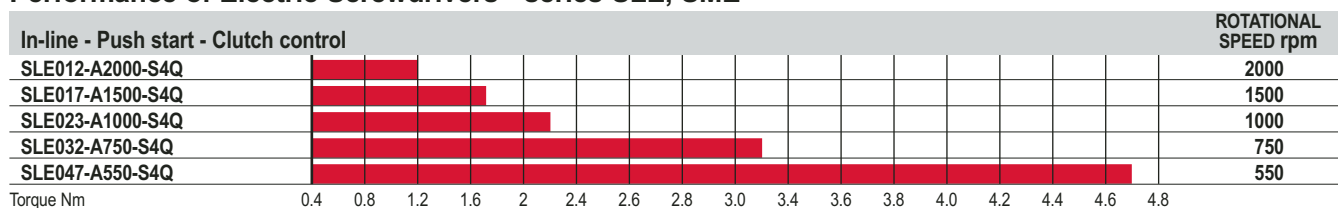
Outputs As per Option 2, 3 and 4 plus n screws OK, n screws NOK

Inputs As per Option 2, 3 and 4 plus reset last, reset all, NOK receipt to acknowledge NOK, group start (maintained during cycle)

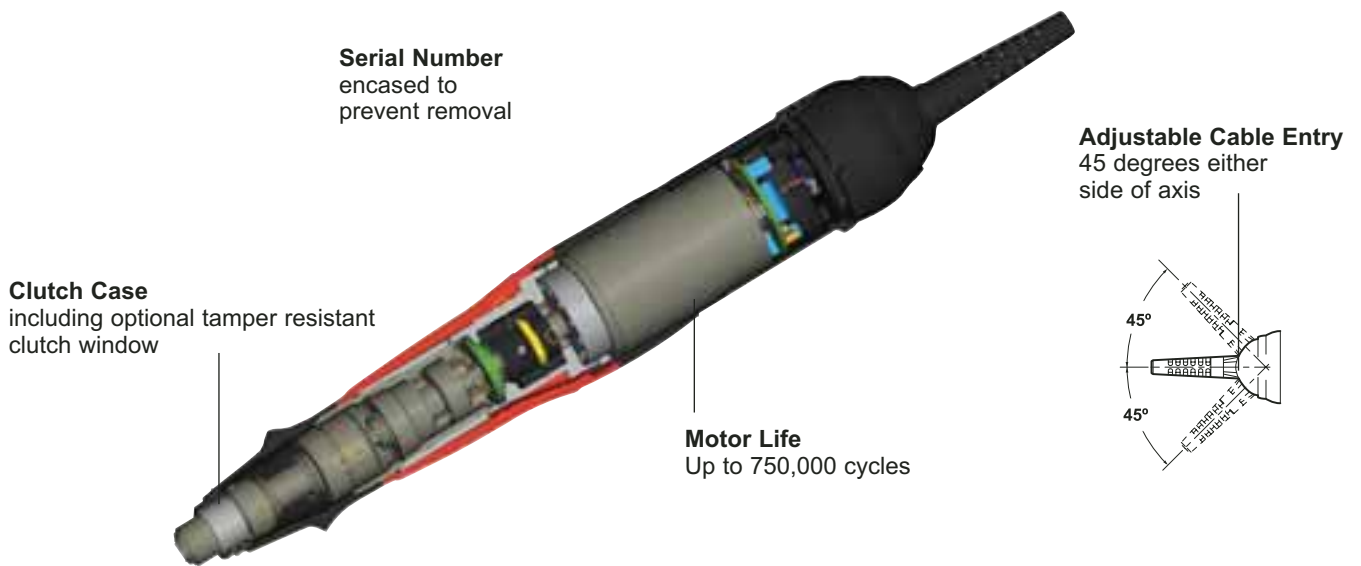


Torque range

Performance of Electric Screwdrivers - series SLE, SME



Electric screwdrivers

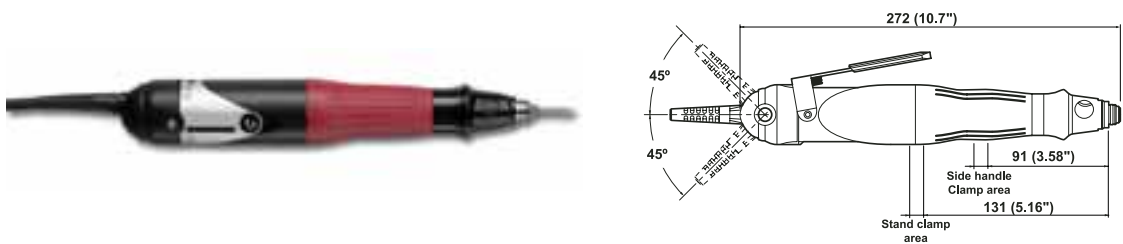


- Torque control options
 - Clutch control
 - Current to reduce shock loading on the component, permit 4 torques with a single tool, allow high torque during the rundown phase
- 5 Start options – push, button, lever, trigger, combination* (button/push, lever/push, trigger/push)

* Not available on angle head tools

SLE - In-line High power screwdriver

0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 2000 rpm



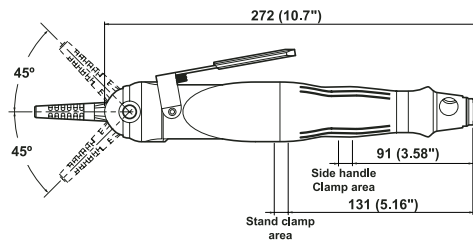
Accessories: see page 47 

MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE		FITTED SPRING		WEIGHT		VOLTAGE	CONTROLLER
		in.	rpm	Nm	in.lb	Nm	in.lb	kg	lb	VDC	
PUSH START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF											
SLE012-A2000-S4Q	1464854	1/4	2000	0.4-1.2	3.5-10.6	0.4-1.2	3.5-10.6	0.64	1.4	40	ESP7
SLE017-A1500-S4Q	1464864	1/4	1500	0.4-1.7	3.5-15.0	0.4-1.7	3.5-15.0	0.64	1.4	40	ESP7
SLE023-A1000-S4Q	1464874	1/4	1000	0.4-2.3	3.5-20.3	0.4-2.3	3.5-20.3	0.64	1.4	40	ESP7
SLE032-A750-S4Q	1464884	1/4	750	0.4-3.2	3.5-28.3	1.5-3.2	13.3-28.3	0.64	1.4	40	ESP7
SLE047-A550-S4Q	1464894	1/4	550	0.4-4.7	3.5-41.6	1.5-4.7	13.3-41.6	0.64	1.4	40	ESP7



SLE - In-line High power screwdriver

0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 2000 rpm

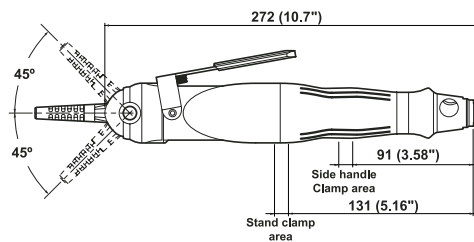


Accessories: see page 47 

MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE		FITTED SPRING		WEIGHT		VOLTAGE	CONTROLLER
		in.	rpm	Nm	in.lb	Nm	in.lb	kg	lb		
LEVER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF											
SLE012-L2000-S4Q	1464904	1/4	2000	0.4-1.2	3.5-10.6	0.4-1.2	3.5-10.6	0.68	1.5	40	ESP7
SLE017-L1500-S4Q	1464914	1/4	1500	0.4-1.7	3.5-15.0	0.4-1.7	3.5-15.0	0.68	1.5	40	ESP7
SLE023-L1000-S4Q	1464924	1/4	1000	0.4-2.3	3.5-20.3	0.4-2.3	3.5-20.3	0.68	1.5	40	ESP7
SLE032-L750-S4Q	1464934	1/4	750	0.4-3.2	3.5-28.3	1.5-3.2	13.3-28.3	0.68	1.5	40	ESP7
SLE047-L550-S4Q	1464944	1/4	550	0.4-4.7	3.5-41.6	1.5-4.7	13.3-41.6	0.68	1.5	40	ESP7

SLE - In-line High power screwdriver

2.0 to 4.5 Nm (17.7 to 39.8 in.lb) - 550 to 1500 rpm



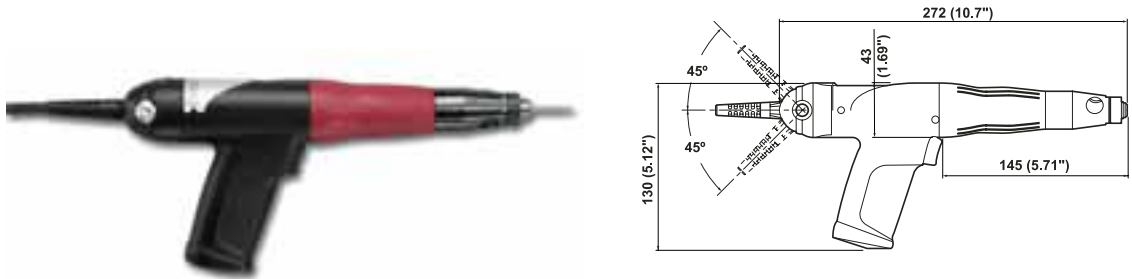
Accessories: see page 47 

MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE HARD JOINT		TORQUE RANGE SOFT JOINT		WEIGHT		VOLTAGE	CONTROLLER
		in.	rpm	Nm	in.lb	Nm	in.lb	kg	lb		
PUSH START - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF											
SLE026-A1500-C4Q	1465414	1/4	1500	2.0-2.6	17.7-23.0	1.4-1.6	12.3-14.1	0.6	1.3	40	ESP7
SLE030-A1000-C4Q	1465424	1/4	1000	2.4-3.0	21.2-26.5	1.8-2.1	15.9-18.5	0.6	1.3	40	ESP7
SLE036-A750-C4Q	1465434	1/4	750	2.4-3.6	21.2-31.8	1.8-2.8	15.9-24.7	0.6	1.3	40	ESP7
SLE045-A550-C4Q	1465444	1/4	550	2.4-4.5	21.2-39.8	1.9-3.8	16.8-33.6	0.6	1.3	40	ESP7
LEVER START - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF											
SLE026-L1500-C4Q	1465884	1/4	1500	2.0-2.6	17.7-23.0	1.4-1.6	12.3-14.1	0.64	1.4	40	ESP7
SLE030-L1000-C4Q	1465894	1/4	1000	2.4-3.0	21.2-26.5	1.8-2.1	15.9-18.5	0.64	1.4	40	ESP7
SLE036-L750-C4Q	1465904	1/4	750	2.4-3.6	21.2-31.8	1.8-2.8	15.9-24.7	0.64	1.4	40	ESP7
SLE045-L550-C4Q	1465914	1/4	550	2.4-4.5	21.2-39.8	1.9-3.8	16.8-33.6	0.64	1.4	40	ESP7



SLE - Pistol grip High power screwdriver

0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 2000 rpm

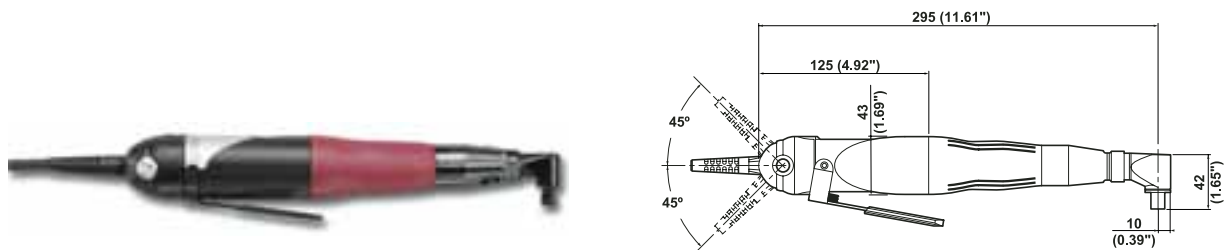


Accessories: see page 47 

MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE		FITTED SPRING		WEIGHT		VOLTAGE	CONTROLLER
		in.	rpm	Nm	in.lb	Nm	in.lb	kg	lb	VDC	
TRIGGER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF											
SLE012-T2000-S4Q	1465004	1/4	2000	0.4-1.2	3.5-10.6	0.4-1.2	3.5-10.6	0.71	1.6	40	ESP7
SLE017-T1500-S4Q	1465014	1/4	1500	0.4-1.7	3.5-15.0	0.4-1.7	3.5-15.0	0.71	1.6	40	ESP7
SLE023-T1000-S4Q	1465024	1/4	1000	0.4-2.3	3.5-20.3	0.4-2.3	3.5-20.3	0.71	1.6	40	ESP7
SLE032-T750-S4Q	1465034	1/4	750	0.4-3.2	3.5-28.3	1.5-3.2	13.3-28.3	0.71	1.6	40	ESP7
SLE047-T550-S4Q	1465044	1/4	550	0.4-4.7	3.5-41.6	1.5-4.7	13.3-41.6	0.71	1.6	40	ESP7

SLE - Angle head High power screwdriver

0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 2000 rpm



Accessories: see page 47 

MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE		FITTED SPRING		WEIGHT		VOLTAGE	CONTROLLER
		in.	rpm	Nm	in.lb	Nm	in.lb	kg	lb	VDC	
LEVER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF											
SLE012-L2000-S90A4H	1464954	1/4	2000	0.4-1.2	3.5-10.6	0.4-1.2	3.5-10.6	0.81	1.8	40	ESP7
SLE017-L1500-S90A4H	1464964	1/4	1500	0.4-1.7	3.5-15.0	0.4-1.7	3.5-15.0	0.81	1.8	40	ESP7
SLE023-L1000-S90A4H	1464974	1/4	1000	0.4-2.3	3.5-20.3	0.4-2.3	3.5-20.3	0.81	1.8	40	ESP7
SLE032-L750-S90A4H	1464984	1/4	750	0.4-3.2	3.5-28.3	1.5-3.2	13.3-28.3	0.81	1.8	40	ESP7
SLE047-L550-S90A4H	1464994	1/4	550	0.4-4.7	3.5-41.6	1.5-4.7	13.3-41.6	0.81	1.8	40	ESP7



SME - Electric screwdrivers

0.5 to 3.9 Nm (4.4 to 34.5 in.lb) - 500 to 1000 rpm



Recommended duty cycle, maximum 24 screws per minute

Accessories: see page 47 

MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE		LENGTH		WEIGHT		VOLTAGE
		in.	rpm	Nm	in.lb	mm	in.	kg	lb	VAC
PUSH START - MAINS VOLTAGE										
SME021-A1000-S4U	1458554	1/4	1000	0.5-2.1	4.4-18.6	264	10.4	1.05	2.31	230
SME029-A700-S4U	1458604	1/4	700	1.0-2.9	8.9-25.6	269	10.6	1.05	2.31	230
SME039-A500-S4U	1458624	1/4	500	1.5-3.9	13.3-34.5	269	10.6	1.05	2.31	230
For USA market only										
SME021-A1000-S4U	1462224	1/4	1000	0.5-2.1	4.4-18.6	264	10.4	1.05	2.31	120
SME029-A700-S4U	1462234	1/4	700	1.0-2.9	8.9-25.6	269	10.6	1.05	2.31	120
SME039-A500-S4U	1462244	1/4	500	1.5-3.9	13.3-34.5	269	10.6	1.05	2.31	120



SLE / SME

ACCESSORIES INCLUDED

	SLE	PART NO.	SME
• Suspension bail	443703		
• Side handle for 550rpm	467033		
• Clutch Adjustment Keys	69773/443713		
• Clutch Spring - 550/750rpm	443523		
• Power cable (UK)			438713
• Power cable (Europe)			438723
• Power cable (flying lead - not Europe)			438733

OPTIONAL ACCESSORIES

ITEM	SLE	PART NO.	SME
Balancers and Holster			
• Spring Suspension Balancer	50522		52862
• Reaction Free Self Lock Balancer	54422		54422
• Suspension Shackle	615 571 056 0		
• Suspension Shackle Rotary	615 396 228 0		
• Bench Mounted Swing Arm	66542		66542
• Tool Holster DTH-42	107892		107892
Bench Stands (for more information see pages 93 - 101)			
1 D53 Stand, 220-580mm (8.7-22.8") Reach	388163		
1 D53X Stand, 175-650mm (6.9-26.7") Reach	388173		
• Tool clamp	384793		
2 D57 Balancing Arm, 400-700mm (15.8-27.5") Reach	408903		
2 D57X Balancing Arm, 450-850mm (15.7-33.4") Reach	408913		
3 D58 Balancing Arm with Swivel, 500-750mm (19.7-29.5") Reach	408923		
Vacuum Pick Up - Order Pick Up kit, Finder Sleeve and Vacuum Source			
• Vacuum Pick Up Kit	108892		
• Finder Sleeve Blank - Plastic	464103		
• Finder Sleeve Blank - Steel	464093		
• Vacuum Source for use with HU Balancer	51262		
• Vacuum Source for use with DU Balancer. Reporting box	51482		
• Vacuum Source AV201 for use with Filter/Regulator Unit	112063		
Miscellaneous			
• Side Handle	467033		
• Angle Head 45 degrees 1/4" Hex (D6.3) Drive	205 04 7627 3		
• Angle Head 45 degrees 1/4" Square Drive	205 047 628 3		
• Angle Head 90 degrees 1/4" Hex (D6.3) Drive	475523		
• Angle Head 90 degrees 1/4" Square Drive	475513		
• Lever Conversion Kit	467853		
Trigger Conversion Kit (4 parts required)			
• Pistol Grip	473803		
• Switch Assembly	473743		
• Trigger Assembly	473843		
• Spring	473923		
• SME Clutch Locking Ring			438963
• SME Pistol Grip			438743

