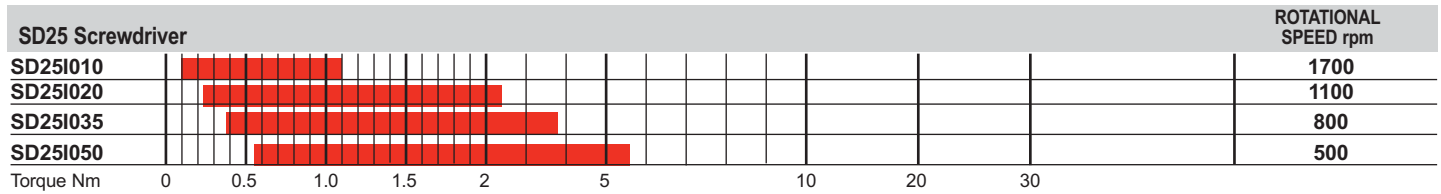


Electric Screwdrivers - CS

Torque Range

Performances of electric screwdrivers - series SD25



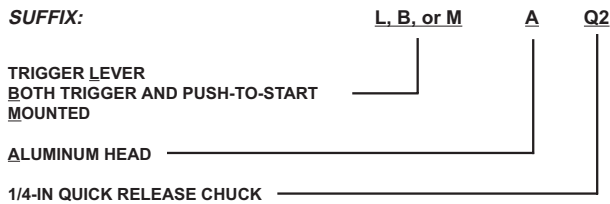
MODEL	PART NUMBER	OUTPUT DRIVE		TORQUE RANGE				ROTATIONAL SPEED	LENGTH L		WEIGHT	
		in.	type	in.lb	in.oz	kgf.cm	Nm		rpm	mm	in.	kg
SD25I010LAQ2	615 004 098 2	1/4	quick release chuck	10	160	11.5	1.1	1700	238.7	9.4	.41	.9
SD25I020LAQ2	615 004 098 3	1/4	quick release chuck	20	320	23.0	2.3	1100	238.7	9.4	.41	.9
SD25I035LAQ2	615 004 098 4	1/4	quick release chuck	35	560	40.3	3.9	800	238.7	9.4	.41	.9
SD25I050LAQ2	615 004 098 5	1/4	quick release chuck	50	800	57.6	5.6	500	238.7	9.4	.41	.9
SD25I010BAQ2	615 004 012 1	1/4	quick release chuck	10	160	11.5	1.1	1700	238.7	9.4	.41	.9
SD25I020BAQ2	615 004 012 4	1/4	quick release chuck	20	320	23.0	2.3	1100	238.7	9.4	.41	.9
SD25I035BAQ2	615 004 012 7	1/4	quick release chuck	35	560	40.3	3.9	800	238.7	9.4	.41	.9
SD25I050BAQ2	615 004 012 9	1/4	quick release chuck	50	800	57.6	5.6	500	238.7	9.4	.41	.9
SD25I010MAQ2	615 004 012 2	1/4	quick release chuck	10	160	11.5	1.1	1700	238.7	9.4	.41	.9
SD25I020MAQ2	615 004 012 5	1/4	quick release chuck	20	320	23.0	2.3	1100	238.7	9.4	.41	.9
SD25I035MAQ2	615 004 012 8	1/4	quick release chuck	35	560	40.3	3.9	800	238.7	9.4	.41	.9
SD25I050MAQ2	615 004 013 0	1/4	quick release chuck	50	800	57.6	5.6	500	238.7	9.4	.41	.9

KEY TO THE SD25 SCREWDRIVER 8-DIGIT PREFIX

Example: SD25I010

SD	25	I	010
Screwdriver	Series	Type: In-line	Capacity: in.lb

AND THE SUFFIX:



Applications

- White goods/appliances
- Electronics
- Automotive dashboards, electronics, headlights, headliners
- Light assembly where error-proofing is essential

Accessories: see page 2



SD25

OPTIONAL ACCESSORIES

ITEM	MODEL NUMBER	PART NO.
Foam grip for In-line SD25 Screwdriver	31-80-39445	615 005 147 2
Foam grip for In-line SD25 Screwdriver, no cutout	31-80-39445P	615 005 147 3
Pistol grip attachment for In-line SD25 Screwdriver	49-SD-10111	615 004 090 7
Suspension bail (all SD25 Screwdrivers)	49-SD-10112	615 004 090 8
Mounting plate, double flange (for fixtured mounting)	49-SD-10121	615 005 309 5
Mounting plate, single flange (for close fixtured mounting)	49-SD-10125	615 005 309 6



SD25 Tool-to-Controller Cables, CE



REQUIRED ACCESSORIES to be ordered with controller

WITH STRAIGHT CONNECTORS	LENGTH		WEIGHT		MODEL NUMBER	PART NUMBER
	m	ft.	kg	lb.		
Screwdriver to Controller Cable	1.5	5	.23	.5	299230-81050C	615 004 110 2
Screwdriver to Controller Cable	3.0	10	.45	1.0	299230-81100C	615 004 070 6
Screwdriver to Controller Cable	4.6	15	.68	1.5	299230-81150C	615 004 070 9
Screwdriver to Controller Cable	6.1	20	.90	2.0	299230-81200C	615 004 071 2
Screwdriver to Controller Cable	7.6	25	1.13	2.5	299230-81250C	615 004 071 4
Screwdriver to Controller Cable	9.1	30	1.36	3.0	299230-81300C	615 004 110 3
Screwdriver to Controller Cable	10.7	35	1.58	3.5	299230-81350C	615 004 098 6
Screwdriver to Controller Cable	12.2	40	1.81	4.0	299230-81400C	615 004 098 7
Screwdriver to Controller Cable	13.7	45	2.04	4.5	299230-81450C	615 004 098 8
Screwdriver to Controller Cable	15.2	50	2.26	5.0	299230-81500C	615 004 098 9



SD25 Tool-to-Controller Cables, CE

OPTIONAL ACCESSORIES

WITH HEAVY DUTY CONNECTORS	LENGTH		WEIGHT		MODEL NUMBER	PART NUMBER
	m	ft.	kg	lb.		
Screwdriver to Controller Cable	1.5	5	.23	.5	299230-81050CH	615 004 110 4
Screwdriver to Controller Cable	3.0	10	.45	1.0	299230-81100CH	615 004 110 5
Screwdriver to Controller Cable	4.6	15	.68	1.5	299230-81150CH	615 004 110 6
Screwdriver to Controller Cable	6.1	20	.90	2.0	299230-81200CH	615 004 110 7
Screwdriver to Controller Cable	7.6	25	1.13	2.5	299230-81250CH	615 004 110 8
Screwdriver to Controller Cable	9.1	30	1.36	3.0	299230-81300CH	615 004 110 9
Screwdriver to Controller Cable	10.7	35	1.58	3.5	299230-81350CH	615 004 111 0
Screwdriver to Controller Cable	12.2	40	1.81	4.0	299230-81400CH	615 004 111 1
Screwdriver to Controller Cable	13.7	45	2.04	4.5	299230-81450CH	615 004 111 2
Screwdriver to Controller Cable	15.2	50	2.26	5.0	299230-81500CH	615 004 111 3



WITH RIGHT ANGLE CONNECTORS	LENGTH		WEIGHT		MODEL NUMBER	PART NUMBER
	m	ft.	kg	lb.		
Screwdriver to Controller Cable	1.5	5	.23	.5	299230-81050CR	615 004 092 2
Screwdriver to Controller Cable	3.0	10	.45	1.0	299230-81100CR	615 004 070 7
Screwdriver to Controller Cable	4.6	15	.68	1.5	299230-81150CR	615 004 071 0
Screwdriver to Controller Cable	6.1	20	.90	2.0	299230-81200CR	615 004 099 3
Screwdriver to Controller Cable	7.6	25	1.13	2.5	299230-81250CR	615 004 099 4
Screwdriver to Controller Cable	9.1	30	1.36	3.0	299230-81300CR	615 004 071 7
Screwdriver to Controller Cable	10.7	35	1.58	3.5	299230-81350CR	615 004 099 5
Screwdriver to Controller Cable	12.2	40	1.81	4.0	299230-81400CR	615 004 099 6
Screwdriver to Controller Cable	13.7	45	2.04	4.5	299230-81450CR	615 004 099 7
Screwdriver to Controller Cable	15.2	50	2.26	5.0	299230-81500CR	615 004 099 8

EXTENSION CABLES	LENGTH		WEIGHT		MODEL NUMBER	PART NUMBER
	m	ft.	kg	lb.		
Screwdriver to Controller Cable	6.1	20	.90	2.0	299230-81200CE	615 004 111 4
Screwdriver to Controller Cable	9.1	30	1.36	3.0	299230-81300CE	615 004 111 5
Screwdriver to Controller Cable	15.2	50	2.26	5.0	299230-81500CE	615 004 111 6
Screwdriver to Controller Cable	23.1	70	3.17	7.0	299230-81700CE	615 004 111 7

Technical Features

CS2700 Range

MAIN FUNCTIONS	VERSIONS	
	CS2700	CS5000
Number of channels	1	2-32
Number of parameter sets	1-32	1-32
Number of sequences (phases)	16 total	16
Number of steps (cycles)	32/sequence	32/sequence
Batch count	99	99
Real time statistics – 6 Sigma, CR, Cpk, St Dev, Pop, Mean, Low, High, Range	✓	✓
Bar code reading	✓	✓
Synchronization of spindles	✓	✓

TIGHTENING RESULTS	CS2700	CS5000
Torque + Angle + Date + Time + Report	Up to 2,000/controller	Up to 2,000/controller
Number of curves	1 accept, 1 reject	1 accept, 1 reject/spindle

TIGHTENING STRATEGIES	CS2700	CS5000
Control Strategies (Use any of these with any/all of the Monitoring Strategies)		
Torque only	✓	✓
Torque and angle	✓	✓
Yield	✓	✓
Monitoring Strategies		
Torque only	✓	✓
Torque and angle	✓	✓
Yield	✓	✓
Prevailing torque	✓	✓
Self-tap	✓	✓
Re-hit	✓	✓

EXTERNAL CONNECTIVITY	CS2700	CS5000
Input	8	8
Output	8	8
RS232 programming port	✓	✓
Serial printer/barcode scanner port (dual function)	✓	✓
High speed RS485 port (SDLC)	✓	✓

ADVANCED OPTIONS	CS2700	CS5000
Ethernet or SDLC or RF	✓	✓
Fieldbus: DeviceNet, Modbus TCP/Ethernet IP, Profibus DPV1	✓	✓
Plant Floor Communication System (PFCS)	✓	✓

MAINTENANCE	CS2700	CS5000
Access to all tools parameters for setup	✓	✓
Access to all I/O for troubleshooting	✓	✓
Serial/Diagnostics port	✓	✓

PROGRAMMING	CS2700	CS5000
Full keypad + large LCD screen + function keys	✓	✓
Laptop PC laded with VS software	✓	✓
Keyboard or touch screen monitor	✓	✓
Visual Supervisor (VS) software	✓	✓
Supply Voltage 120V	✓	✓
Supply Voltage 230V	✓	✓
Supply Voltage 480V with step down transformer	✓	✓

CS5000 Controllers				
Model	Part Number	Description	Dimensions (W x H x D)	Weight
485000-36269	615 004 070 3	CS5000 Workstation, Industrial PC with built-in monitor, keypad/mouse, SDLC	52.1 x 54.6* x 41.9** cm 20.5 x 21.5* x 16.5** in	35.22 kg 77.66 lb

*Height includes mounting flanges

**Depth includes handles

Multi-spindle CS5000 Controllers can be customized for your particular application.



CS2700 Controllers

Total tightening functionality is packaged in a space-saving enclosure. Slim new CS2700 Controllers are designed for use with the SD25 Series transducerized electric screwdrivers (1 to 50 in.-lb).

Controller configurations include:

- 1 **Basic +** with parameter set selection dial; no keypad, small scrolling display
- 2 **Advanced** with keypad/display user interface, Ethernet

Each model comes with RS-485 connection for daisy-chaining to other controllers.

Limited programming can be performed via the keypad/display on the Advanced model. Both models may be programmed using the Visual Supervisor (VS) program. VS is loaded onto a laptop PC that connects to the controller via RS-232 port.

Data that the controller collects about the selected fastening strategy and results can be stored to internal memory, off-line, a network database, or communicated via programmable logic controller (PLC) for sharing with in-plant workstations.

Field bus option kits for all models are available.

Each configuration is available in 120V or 230V. Tool control module is 7A. Designed to meet automotive OEM tightening, size and CE, CSA requirements. Enclosure measures 17.4 x 45.9 x 33.3 cm / 6.85 x 18.07 x 13.12 in (width x height x depth). Approximate weight is 13.6 kg / 30 lb.



CS2700 CONTROLLER

MODEL	PART NUMBER	PSET DIAL	KEYPAD DISPLAY	USED WITH	TCM AMPS, COLOR	COMM	FIELD BUS*	INPUT VOLTS	CABLE CONNECTOR	SAFETY STD.
C2700AP1V112	615 004 108 2	1	No	SD25	7A - White	—	None	120	Screwdriver	CE, CSA
C2700A01K112051	615 004 108 5	0	Yes	SD25	7A - White	Ethernet	None	120	Screwdriver	CE, CSA
C2700AP1V212	615 004 108 3	1	No	SD25	7A - Blue	—	None	230	Screwdriver	CE, CSA
C2700A01K212051	615 004 090 9	0	Yes	SD25	7A - Blue	Ethernet	None	230	Screwdriver	CE, CSA

* Additional models are available. Consult your CP sales representative.

OPTION KITS	MODEL	CP PART NUMBER
CS2700/4746/4700 Ethernet Option (for Basic+ models only) ¹	244700KETHN051	615 004 138 7
CS2700/4746/4700 Devicenet Option ²	244700KDNET054	615 004 138 8
CS2700/4746/4700 Profibus DPV1 Option ²	244700KPBUS058	615 004 138 9
CS2700/4746/4700 Modbus TCP/Ethernet IP Option ²	244700KMTCP05A	615 004 139 0
CS2700/4746/4700 PFCS/Terminal Server Option ²	244700KPFCSB51	615 004 139 1

¹Ethernet is already installed on Advanced controllers with keypad/display so this option is not required.

²When this option is selected, the Ethernet option¹ must also be ordered.

Contact your CP Representative for more information.

CS2700 Power Cable

REQUIRED ACCESSORIES to be ordered with controller

PLUG	DESCRIPTION	LENGTH		MODEL NO.	PART NO.	
		m	ft.			
A	China	CS2700/4700/4746 Controller power cord, 230V	2.5	8	244100-42222	615 004 092 3
B	England	CS2700/4700/4746 Controller power cord, 230V	2.5	8	244100-40105	615 004 085 5
C	Europe	CS2700/4700/4746 Controller power cord, 230V	2.5	8	244100-40106	615 004 085 6
D	USA/North America	CS2700/4700/4746 Controller power cord, 230V	2.5	8	244100-40107	615 004 085 7
D	USA/North America	CS2700/4700/4746 Controller power cord, 120V	2.5	8	244100-40526	615 004 092 1

CS2700 Controller Cables

OPTIONAL ACCESSORIES

ITEM	LENGTH		WEIGHT		MODEL NO.	PART NO.
	m	ft.	kg	lb.		
Controller to printer/PC programming kit	1.8	6	.23	.5	244000-35087	615 005 055 8
Serial cable for data transfer, laptop VS to CS2700 controller	6.1	20	.23	.5	41-41-0109FN	615 005 258 1

Controllers for fixtured multiple screwdriver applications may be customized to your requirements. Contact your sales representative.

