

Nitto Kohki's "delvo" contributes to improvement of assembly quality.



"delvo", a screwdriver that realizes high precision torque management

Products with high reliability are born only with reliable tools.

High Precision

A high precision torque is a must to improve assembly quality. "delvo" has high repeatable torque accuracy, and it is possible to equalize the tightening torque.

Long Life

"delvo" with brush motor uses a long life motor that withstands a guaranteed fastening cycle of a million times. "delvo" with brushless motor are eco-friendly and maintenance free that realize high durability.

Shockless

Original clutch and motor stop mechanism minimizes the shock at the end of the screw fastening. It reduces the fatigue of screw fastening.



NITTO KOHKI has made every effort in environmental improvement schemes on a company-wide basis through the implementation of ISO14001 to execute environmentally conscious business activities. As a part of our ongoing commitment to improve the environment, we are also committed to exclude or reduce restricted chemical substances in our products, as designated by the RoHS directives and Laws and Regulations of Chemical Substances in Japan. For further details, please see the following:

Nitto Kohki group companies' Green Procurement Guidelines have been established by their environmental committee which consists of members from all the Nitto Kohki group of companies. Nitto Kohki group companies give preferential treatment to suppliers that work to an environmental policy framework. Nitto Kohki group companies periodically survey their suppliers to ensure their chemical management systems include the monitoring of environmental issues such as the RoHS directives, and Japanese laws and regulations of Chemical Substances to minimize packaging and waste. We are continuing our goal to ensure that our made-to-order items are also covered by our environmental policy.

Green Procurement Policy

Each of the Nitto Kohki group companies is clarifying the control categories of the environmental management substances included in the parts and auxiliary materials constituting Nitto Kohki products and those of the environmental management substances used in the manufacturing processes. We will promote prohibition and reduction of use of the environmental management substances according to such control categories. Through these activities, we will comply with various laws and regulations related to the environmental management substances and reduce the impact to the global environmental conservation and to the ecological system.

Scope of Application

Our Green Procurement Guideline applies to all materials, parts, products, and auxiliary materials which Nitto Kohki Group companies purchase for production or sales.

Our Green Procurement Activities

NITTO KOHKI group companies continually aim to comply with RoHS directives, and Japanese laws and regulations of Chemical Substances.

- Standard products have been RoHS compliant. Green procurement activities on made-to-order products are continuing.
- NITTO KOHKI group companies are now working to the REACH Regulation.
- NITTO KOHKI group companies are building a database of the chemical management substances regulated by the RoHS directives, the REACH Regulation and Japanese laws and regulations of Chemical Substances.

Classification in this catalog

Power type	— The type of power source is indicated.
Brush motor	— The type of motor is indicated.
Precision screw	— The type of screw* is indicated.
Machine screw	— The size range of screw is indicated.

* Miniature screw ... for 1.0 to 2.6 mm

Precision screw ... for 1.0 to 3.5 mm

Machine screw ... for 2.6 to 8.0 mm



About Torque Management

The fastening torque generated on the screw varies depending on the screw size, material and the type of workpiece. Always check and manage the torque generated on the screw with a torque wrench., etc. The fastening torque varies depending on the fastening conditions.

Quick Reference Symbols

	Lever Start Operates when the lever is pressed.		Push to Start Operates when the screwdriver is pressed.		Transformerless A dedicated controller is not required. Operates by commercial power supply.		Low Voltage Connect to dedicated controller. Operates at electric voltage under 42V.
	Brushless Motor Maintenance free, no brush replacement required. Realizes high durability.		Grounded Bit Prevents electrostatic breakdown when the bit contacts the workpiece.		ESD Protection Prevents electrostatic charging and saves the workpiece from electrostatic breakdown.		Low Shock Softens the shock at the end of tightening and lowers the load to the workpiece.
	Clean room adaption Adapts to assembly in class 5 clean rooms.		Soft Stop Gradually reduces the rotation speed to improve the screw tightening quality.		Variable Speed Can be adjusted to a suitable tightening speed.		Soft Start Gradually increases the rotation speed to prevent damage to the screw head.

delvo

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List of Screwdrivers

[Brushless Motor - DC Power Supply]

Page	Outer Appearance	Series	Model	Controller		Outer Appearance	
				SPC Type available (for screw counter)	Model		
7		C Series (Current control type)	DLV04C10L	0.05 - 0.4 [0.4 - 3.5]	1.2	3.0	
			DLV10C10L	0.2 - 1.0 [1.8 - 8.9]	1.8	4.0	
10		S Series (Variable speed type)	DLV30S06L	0.4 - 3.0 [3.5 - 26.6]	2.6	5.0	
			DLV30S06P				
			DLV30S12L				
			DLV30S12P				
			DLV30S20L				
			DLV30S20P				
			DLV45S06L	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	
			DLV45S06P				
			DLV45S12L				
13		A Series	DLV45S12P				
			DLV70S06L	3.8 - 7.0 [33.6 - 62.0]	5.0	8.0	
			DLV70S06P				
			DLV30A06L				
			DLV30A06P				
			DLV30A12L				
			DLV30A12P				
			DLV30A20L				
			DLV30A20P				
15		DLV02/12/16	DLV45A06L	0.4 - 3.0 [3.5 - 26.6]	2.6	5.0	
			DLV45A06P				
			DLV45A12L				
			DLV45A12P				
			DLV70A06L	3.8 - 7.0 [33.6 - 62.0]	5.0	8.0	
			DLV70A06P				
			DLV02SL-CKE				
			DLV02SL-BKE	0.03 - 0.2 [0.3 - 1.8]	1.0	2.2	
			DLV12SL-CKE	0.15 - 1.2 [1.3 - 10.6]	1.4	3.0	
			DLV12SL-BKE				
			DLV16SL-CKE	0.2 - 1.6 [1.8 - 14.2]	2.2	4.0	
			DLV16SL-BKE				

[Brushless Motor - AC Power Supply]

Page	Outer Appearance	Series	Model	Controller		Outer Appearance
				SPC Type available (for screw counter)	Model	
14		A Series	DLV30A06L	0.4 - 3.0 [3.5 - 26.6]	2.6	
			DLV30A06P			
			DLV30A12L			
			DLV30A12P			
			DLV30A20L			
			DLV30A20P	2.0 - 4.5 [17.7 - 39.8]	4.5	
			DLV45A06L			
			DLV45A06P			
			DLV45A12L			
			DLV45A12P			
			DLV70A06L	3.8 - 7.0 [33.6 - 62.0]	5.0	
			DLV70A06P			

[Brush Motor - DC Power Supply]

Page	Outer Appearance	Series	Model	Torque Range (Nm [lbf·in])	Screw Size (mm)	Mass (g [lbs])	Controller		Outer Appearance	
							min.	max.		
16		7400A	DLV7410A	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	230 [0.51]	●		
			DLV7410HA					●		
			DLV7420A	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6		●		
			DLV7419A	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	275 [0.61]	●		
			DLV7419HA					●		
			DLV7429A	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6		●		
17		5700	DLV5720	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	230 [0.51]	●		
			DLV5720H					●		
			DLV5740	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6		●		
			DLV5740H				300 [0.66]	●		
			DLV5750	0.1 - 0.55 [0.9 - 4.9]	1.0	3.0		●		
18		5800	DLV5820	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	230 [0.51]	●		
			DLV5820H					●		
			DLV5840	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6		●		
19		7300	DLV7313	0.03 - 0.15 [0.3 - 1.3]	Up to 2.0		350 [0.77]	●		
			DLV7323	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0		●		
			DLV7333	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5		●		
			DLV7325	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	400 [0.88]	●		
			DLV7335	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5		●		
20		7300-BME/ BKE	DLV7321	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	350 [0.77]	●		
			DLV7331	0.3 - 1.2 [2.7 - 10.6]				●		
			DLV7319	0.2 - 0.4 [1.8 - 3.5]	2.0	3.0	400 [0.88]	●		
			DLV7329	0.25 - 0.55 [2.2 - 4.9]				●		
			DLV7339	0.45 - 0.95 [4.0 - 8.4]	3.0	3.5		●		
			DLV7349	0.55 - 1.2 [4.9 - 10.6]				●		
21		7500	DLV7530-MKE	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	650 [1.43]	●		
			DLV7530-BKE					●		
			DLV7540-MKE	1.2 - 2.7 [10.6 - 23.9]	3.5	5.0		●		
			DLV7540-BKE				750 [1.65]	●		
			DLV7550-MKE	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0		●		
			DLV7550-BKE				750 [1.65]	●		
			DLV8530-MKE	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0		●		
		8500	DLV8530-BKE				650 [1.43]	●		
			DLV8540-MKE	1.2 - 2.7 [10.6 - 23.9]	3.5	5.0		●		
			DLV8540-BKE				750 [1.65]	●		
			DLV8550-MKE	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0		●		
			DLV8550-BKE					●		

List of Screwdrivers

[Brush Motor - AC Power Supply]

Page	Outer Appearance	Series	Model	Torque Range (Nm [lbf·in])	Screw Size (mm)	min.	max.	SPC Type available (for screw counter)		
								High Speed	ESD Protection	Push to Start
24		7000	DLV7020	0.05 - 0.55 [0.4 - 4.9]	1.0	3.0	400 [0.88]	●		●
			DLV7030	0.3 - 1.1 [2.7 - 9.7]	2.0	3.5		●		●
			DLV7031	0.3 - 1.0 [2.7 - 8.9]		3.0		●	●	●
		8000	DLV8020	0.1 - 0.55 [0.9 - 4.9]	1.0	3.0	410 [0.90]	●		●
			DLV8030	0.3 - 1.1 [2.7 - 9.7]	2.0	3.5		●		●
			DLV8031	0.3 - 1.0 [2.7 - 0.9]		3.0		●	●	●
25		7100/ 7200	DLV7120	0.35 - 0.70 [3.1 - 6.2]	2.6	3.0	700 [1.54]	●		●
			DLV7130	0.5 - 1.7 [4.4 - 15.1]		4.0		●		●
			DLV7140	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0		●		●
			DLV7221	0.35 - 0.7 [3.1 - 6.2]	2.6	3.0		●		●
			DLV7231	0.5 - 1.7 [4.4 - 15.1]		4.0		●	●	●
			DLV7241	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0		●		●
			DLV7251	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	890 [1.96]	●		●
		8100/ 8200	DLV8120	0.35 - 0.70 [3.1 - 6.2]	2.6	3.0	690 [1.52]	●		●
			DLV8130	0.5 - 1.7 [4.4 - 15.1]		4.0		●		●
			DLV8140	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0		●		●
			DLV8150	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	890 [1.96]	●		●
			DLV8221	0.35 - 0.7 [3.1 - 6.2]	2.6	3.0	●	●	●	
			DLV8231	0.5 - 1.7 [4.4 - 15.1]		4.0	●	●	●	
			DLV8241	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0	●		●	
26		7104/ 8104/ 8204	DLV7124	0.25 - 0.75 [2.2 - 6.6]	2.6	3.0	720 [1.59]	●		●
			DLV7134	0.5 - 1.7 [4.4 - 15.1]		4.0		●		●
			DLV7144	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0		●		●
			DLV8124	0.25 - 0.75 [2.2 - 6.6]	2.6	3.0	710 [1.57]	●	●	
			DLV8134	0.5 - 1.7 [4.4 - 15.1]		4.0		●	●	
			DLV8144	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0		●	●	
			DLV8154	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	910 [2.01]	●	●	
			DLV8224	0.35 - 0.7 [3.1 - 6.2]	2.6	3.0	710 [1.57]	●	●	●
			DLV8234	0.5 - 1.7 [4.4 - 15.1]		4.0		●	●	●
			DLV8244	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0		●	●	

[Brushless Motor]

Page	Outer Appearance	Series	Model	Torque Range (Nm [lbf.in])	Screw Size (mm)	Mass [g (lbs)]	Coupling		Type of couplings
							min.	max.	
33	A Series (for automation)	DLV30A06A-N DLV30A06A-F DLV30A06A-M DLV30A12A-N DLV30A12A-F DLV30A12A-M DLV30A20A-N DLV30A20A-F DLV30A20A-M	0.4 - 3.0 [3.5 - 26.6]	2.6	5.0	700 [1.54]	●		●
						760 [1.68]	●		●
						740 [1.63]	●		●
						700 [1.54]	●	●	
						760 [1.68]	●		●
						740 [1.63]	●		●
						700 [1.54]		●	
						760 [1.68]	●		●
						740 [1.63]			●
33	A Series (for automation)	DLV45A06A-N DLV45A06A-F DLV45A06A-M DLV45A12A-N DLV45A12A-F DLV45A12A-M DLV70A06A-N DLV70A06A-F DLV70A06A-M	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	780 [1.72]	●		●
						840 [1.85]	●		●
						820 [1.81]	●		●
						780 [1.72]	●	●	
						840 [1.85]	●		●
						820 [1.81]	●		●
						780 [1.72]	●	●	
						840 [1.85]	●		●
						820 [1.81]	●		●
35	Outer Appearance	3100 (for automation)	DLV3121	0.25 - 0.7 [2.2 - 6.2]	2.3	2.6	900 [1.98]	Transformerless (controller not required)	Controller Model
			DLV3131	0.5 - 1.5 [4.4 - 13.3]	2.6	3.5			
			DLV3141	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0			
			DLV3151	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0			
		3300 (for automation)	DLV3321	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	400 [0.88]	DLC3310	
			DLV3331	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5			



Standard coupling



Flange coupling



M41 screw coupling

[Brush Motor]

Page	Outer Appearance	Series	Model	Torque Range (Nm [lbf.in])	Screw Size (mm)	Mass [g (lbs)]	Controller		Model	
							min.	max.		
35		3100 (for automation)	DLV3121	0.25 - 0.7 [2.2 - 6.2]	2.3	2.6	900 [1.98]	Transformerless (controller not required)	DLC3310	
			DLV3131	0.5 - 1.5 [4.4 - 13.3]	2.6	3.5				
		3300 (for automation)	DLV3141	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0				
			DLV3151	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0				
35		3300 (for automation)	DLV3321	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	400 [0.88]	DLC3310		
			DLV3331	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5				

Low Voltage (DC)	
Brush motor	Brushless motor
Miniature screw	Precision screw
1.2 - 4.0 mm	Machine screw



C Series (Current control Type) Model DLV04C/10C CE NEW



Features

- Easy fastening setting by controller
- Current Controlled Torque System suitable for screw fastening work
- Low-voltage brushless motor
- ESD (electrostatic discharge) protection structure
- For both hand-held / automatic machines
- Controller has built in counting function. Prevents human errors

Four screwdrivers can be consolidated into one

- Controller can be set to any torque and speed within range.

* The range varies depending on SOFT fastening or HARD fastening.

0.25 Nm 450 min ⁻¹	1st unit
0.15 Nm 600 min ⁻¹	2nd unit
0.35 Nm 1000 min ⁻¹	3rd unit
0.30 Nm 450 min ⁻¹	4th unit



- Easily adapts for use in automatic machines

The sequencing of the screwdrivers can be controlled by a PLC.



DLP6650

For installation on automatic assembly machines, attach optional flange coupling (DLW9015) or vacuum pickup (DLP6650).

- Built-in Screw Fastening Counter Function

Controller has built in counting function. Prevents human errors.



Specifications

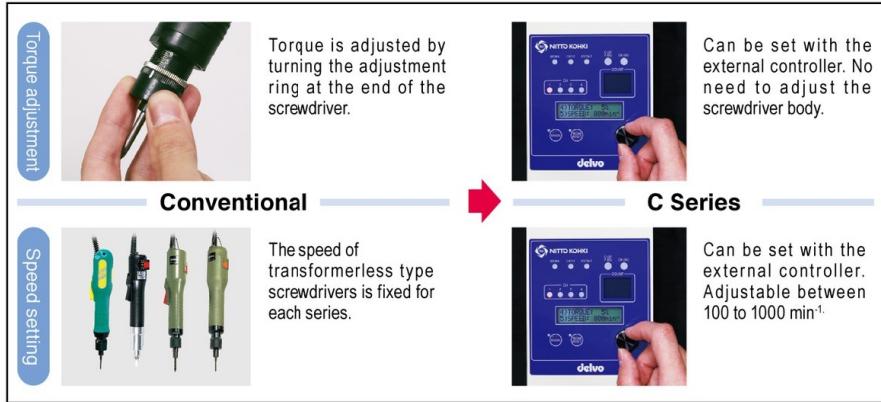
Model	Bit	CE/UL	DLV04C10L-AY	K	DLV10C10L-AY	K
Power Source			DCC0101X-AZP or DCC0101X-AZN			
Torque Adjustment			Adjustment from 1 to 100% in 1% increments			
Torque (Nm [lbf-in])	SOFT fastening setting (1000 min ⁻¹ setting)		0.05 - 0.4 [0.4 - 3.5]		0.2 - 1.0 [1.8 - 8.9]	
	SOFT fastening setting (600 min ⁻¹ setting)		0.05 - 0.35 [0.4 - 3.1]		0.2 - 0.45 [1.8 - 4.0]	
	HARD fastening setting		0.05 - 0.4 [0.4 - 3.5]		0.2 - 1.0 [1.8 - 8.9]	
Free Speed (min ⁻¹)	SOFT fastening setting		600 - 1000			
	HARD fastening setting		100 - 1000			
Screw Size (mm)	Machine screw		1.2 - 3.0		1.8 - 4.0	
	Tapping screw		1.1 - 2.5		1.6 - 3.5	
Bit Type			NK35 (OD6.35 mm [1/4"] Hex. Shank)			
Input Voltage			24 V DC			
Mass			370 g [0.82 lbs]			
Rated Operation			ON: 0.5 seconds / OFF: 3.5 seconds			
Standard Accessories			<ul style="list-style-type: none"> Bit NK35(No.0 x 4 x 75): 1 pc. Bit NK35(No.1 x 4 x 75): 1 pc. Bit NK35(No.2 x 4 x 75): 1 pc. Bit NK35(No.2 x 4 x 75): 1 pc. Connection Cord(DLW9075): 1 pc. Suspension Ball: 1 pc. 			

Please contact us for 4 mm bit type ("M" Bit) of CE/UL models.

Model	DCC0101X-AZ P*
Input Voltage	100 - 240 V AC, 50/60Hz
Operation Channel Function	Torque and speed setting in 4-channel memory Can switch to any operation channel
Count Function	Tracks screws fastened Workpiece detector can be incorporated
External Start up Control Function	Start up control can be enabled by external input signal
Input Signal Method	Photocoupler input (24 V DC drive (5 mA/1 input), respond to PNP output)
Output Signal Method	Photocoupler output (30 V DC or less, 30 mA/1 output or less, PNP output method)
Service Power Source	24 V DC (Maximum capacity 200 mA)
Power consumption	When on standby: 20 W During electric screwdriver rotation (rated): 30 W
Mass	1100 g [2.4 lbs]
Power cord (Optional)*	DLW9220 / DLW9240 / DLW9250

*DCC0101X-AZN with NPN output also available

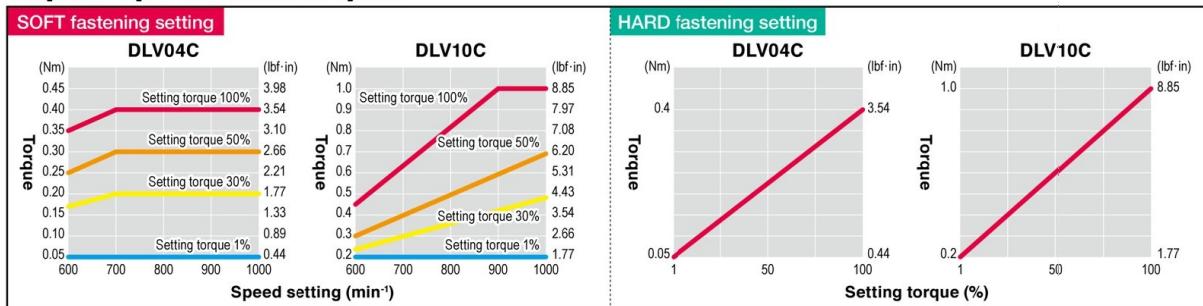
*The power cord is sold separately. Ask us for the required power cord when ordering. (see page 9 "Optional Accessories")

C Series (Current control Type) Model DLV04C/10C**delvo Brushless Type****Comparison of Adjustment Method with Conventional Model****SOFT / HARD Fastening Settings**

Two types of fastening mode available subject to the workpiece.
Coordinate the actual workpieces, screws and operating conditions and determine the fastening mode.

SOFT fastening setting Suitable for workpieces with high fastening load such as tapping screws or fastening soft objects such as rubber.

HARD fastening setting Suitable for workpieces with small fastening load such as threaded holes or rigid bodies such as metal.

Output Torque and Rotation Speed

*The graph is for guidance only. The output torque range is not guaranteed.

External Signals

You can input or output external signals via a signal terminal block.

Terminal No.	Function	Details	I/O
1 (+)	+24 V DC	Built-in service power source (Capacity: Maximum 200 mA) • Use in power source for input/output signal common wire, or for the workpiece detection sensor, etc.	Service power source
2 (-)	0 V DC		
3	Channel A	In the 2-bit input signal, specify the operation channel (CH1 to CH4) • Valid only when "operation channel switching method" (No.1 CH-CHG) is set to "INPUT"	
4	Channel B		
5	Forward rotation startup		
6	Reverse rotation startup	Startup with external input signal	
7	WORK	Input the workpiece signal (workpiece detection sensor output) • With "count function" (No.11 COUNT-FNC) and "workpiece signal" (No.12 WORK-SNSR) set to ON, the workpiece signal input is valid	
8	WORK RESET	Reset operation (same as controller [WORK RESET] button)	
9	Keylock	Lock the controller button operation • Disable the controller button operation, and prevent setting changes by the operator	
10	Input signal negative common wire	Connect 0 V DC* • Service power source (terminal No.2) or external 0 V DC power source can be connected	
11	Forward rotation signal	Set output signal during forward rotation to ON	Input
12	Reverse rotation signal	Set output signal during reverse rotation to ON	
13	Count-up (C-UP)	Performance of normal screw tightening (torque-up) sets output signal to 0.3 seconds ON	
14	Screw fastening NG (F-NG)	If screw fastening NG, sets output signal to 0.3 seconds ON	
15	Operation channel 1 (CH1)		
16	Operation channel 2 (CH2)	Set the channel output signal to ON during operation or settings	
17	Operation channel 3 (CH3)		
18	Operation channel 4 (CH4)		
19	Operation OK	If the set count screw tightening is judged to be completed and operation OK, the output signal is set to ON	
20	Operation NG	When the WORK input signal is OFF during an operation, and the operation is judged to be NG, the output signal is ON	
21	Space	Connection impossible	
22	Output signal positive common wire	Connect +24 V DC* • Service power source (terminal No.1) or external +24 V DC can be connected	

*When PNP output

C Series (Current control Type) Model DLV04C/10C**delvo Brushless Type****Optional Accessories****Grounded 3-Prong Power Cord**

DLW9220



North America

DLW9240



Europe

DLW9250



UK

Screw vacuum pump

DLP2530 (100 V), DLP2570 (230 V)

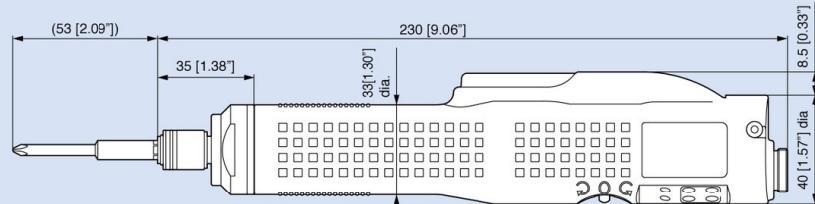
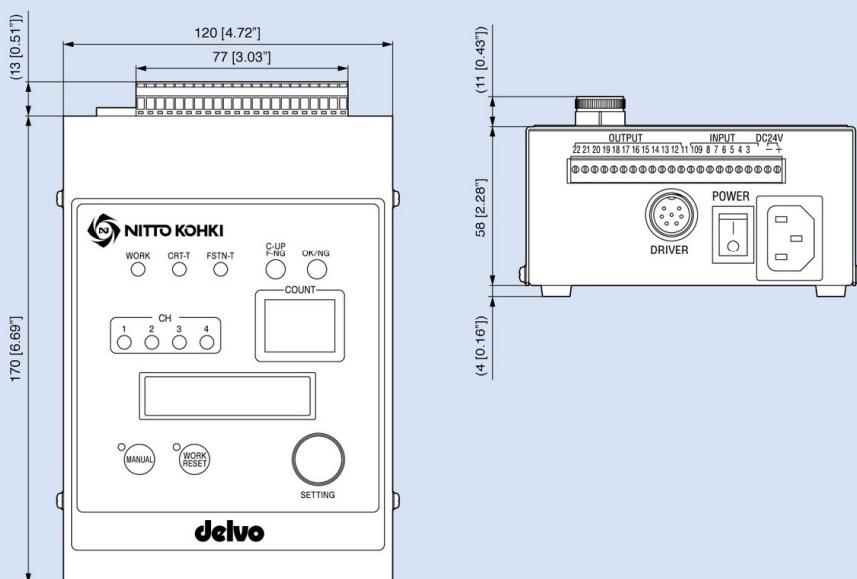
Connect the tube
to the vacuum pickup port.
The vacuum will pick up the screw.

**Torque checker**
DLT1173A**Screw joint (with white rubber)**
DLW4540*For DLV04C10L-AY SOFT fastening torque
measurement**Screw joint (with black rubber)**
DLW4550*For DLV10C10L-AY SOFT fastening
torque measurement**Screw joint (with metal washer)**
DLW4560*For HARD fastening torque measurement
of both DLV04/10C10L-AY**For "K" Bit****Vacuum pickup**
DLP6640**Vacuum pickup
(for automatic machine)**
DLP6650**Connection Cord**
DLW9075

Standard accessory of screwdrivers

**Flanged coupling
(for automatic machine)**
DLW9015

* Please see page 39 for details.

External Dimensions**•DLV04C/10C ("K" Bit Type)****•DCC0101X-AZ**

unit: mm [inch]



delvo Brushless Type

S Series (Variable speed Type) Model **DLV30S/45S/70S** **CE**



Features

- Built-in brushless motor
- Automatic speed control function
- Built-in screw counting function
- Setting with the Remote Controller
- ESD (electrostatic discharge) protection structure

This screwdriver can deal with various fastening conditions.

Torque range **0.4 - 7.0 Nm**
[3.5 - 62.0 lbf·in]



Built-in Automatic Speed Control Function

Low speed starting reduces the problems at start.

<Step 1>

High speed feeding at middle improves efficiency and quality of screw fastening work.

<Step 2>

Low speed fastening at finish reduces the problems at finish.

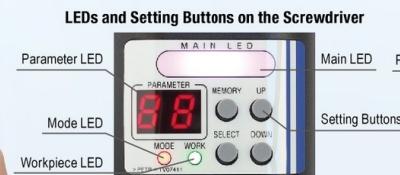
<Step 3>

Built-in the Functions of Screw Fastening Counter

- screw count setting
- fastening time setting, and fastening time measurement



Main LED mounted on the screwdriver

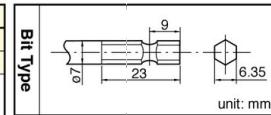


Part Names of the Remote Controller



Specifications

Model	Low Speed	Standard	High Speed	Low Speed	Standard	Low Speed
Bit	Lever Start	DLV30S06L-AY K	DLV30S12L-AY K	DLV30S20L-AY K	DLV45S06L-AY K	DLV45S12L-AY K
Push to Start		DLV30S06P-AY K	DLV30S12P-AY K	DLV30S20P-AY K	DLV45S06P-AY K	DLV45S12P-AY K
Power Source	DEA0151N-AZ or DEA0241N-AZ		DEA0241N-AZ	DEA0151N-AZ or DEA0241N-AZ		DEA0241N-AZ
Torque Adjustment				Stepless		
Torque (Nm [lbf·in])	Low Torque Spring*1 0.4 - 1.6 [3.5 - 14.2] High Torque Spring*2 1.2 - 3.0 [10.6 - 26.6]			2.0 - 4.5 [17.7 - 39.8]		3.8 - 7.0 [33.6 - 62.0]
Free Speed (min⁻¹)				For the details, see separate setting range of speed and torque.		
Speed Level				Lv1 - Lv9 (Lv1: Min. Speed Lv9: Max. Speed decreases in a step-by-step manner)		
Power Consumption (W)				44		
Screw Size (mm) (Tapping Screw)	Machine Screw 2.6 - 5.0		High Speed 2.5 - 4.0	Low Speed 4.5 - 6.0	Standard 4.0 - 5.0	Low Speed 5.0 - 8.0
Mass (g [lbs])	710 [1.57]				860 [1.90] (with pistol grip)	
Standard Accessories ³	• Bit NK35(No.2 x 7 x 75): 1 pc. • Low Torque Spring: 1 pc. • Suspension Bail: 1 pc.		• Bit NK35(No.2 x 7 x 75): 1 pc. • Connection Cord (DLW9073): 1 pc.	• Bit NK35(No.2 x 7 x 75): 1 pc. • Connection Cord (DLW9073): 1 pc.	• Suspension Bail: 1 pc. • Pistol Grip (DLW2300ESD): 1 pc.	



Please contact us for 5 mm bit type

*1: Standard Accessory

*2: Installed

*3: The power cord is sold separately.
Ask us for the required power cord when ordering.

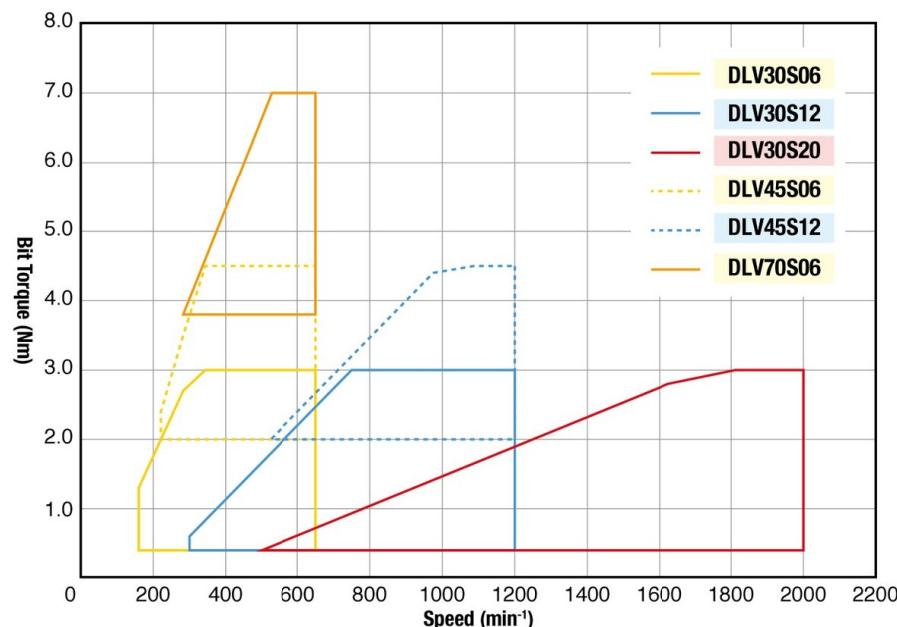
S Series (Variable speed Type) Model DLV30S/45S/70S**delvo Brushless Type****Setting Range of Speed and Torque (for reference only)**

		DLV30S06	DLV45S06	DLV70S06			DLV30S12	DLV45S12			DLV30S20	
Speed Level	Speed (min⁻¹)	Torque (Nm [lbf-in])			Speed Level	Speed (min⁻¹)	Torque (Nm [lbf-in])			Speed Level	Speed (min⁻¹)	Torque (Nm [lbf-in])
Lv1	160	0.4 - 1.3 [3.5 - 11.5]	-	-	Lv1	300	0.4 - 0.6 [3.5 - 5.3]	-	-	Lv1	500	0.4 [3.5]
Lv2	220	0.4 - 2.0 [3.5 - 17.7]	2.0 - 2.4 [17.7 - 21.2]	-	Lv2	420	0.4 - 1.2 [3.5 - 10.6]	-	-	Lv2	690	0.4 - 0.8 [3.5 - 7.0]
Lv3	280	0.4 - 2.7 [3.5 - 23.9]	2.0 - 3.5 [17.7 - 30.9]	3.8 [33.6]	Lv3	530	0.4 - 1.8 [3.5 - 15.9]	2.0 [17.7]	-	Lv3	880	0.4 - 1.2 [3.5 - 10.6]
Lv4	340	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	3.8 - 4.6 [33.6 - 40.7]	Lv4	640	0.4 - 2.4 [3.5 - 21.2]	2.0 - 2.6 [17.7 - 23.0]	-	Lv4	1,060	0.4 - 1.6 [3.5 - 14.1]
Lv5	410	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	3.8 - 5.4 [33.6 - 47.8]	Lv5	750	0.4 - 3.0 [3.5 - 26.6]	2.0 - 3.2 [17.7 - 28.3]	-	Lv5	1,250	0.4 - 2.0 [3.5 - 17.7]
Lv6	470	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	3.8 - 6.2 [33.6 - 54.9]	Lv6	860	0.4 - 3.0 [3.5 - 26.6]	2.0 - 3.8 [17.7 - 33.6]	-	Lv6	1,440	0.4 - 2.4 [3.5 - 21.2]
Lv7	530	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	3.8 - 7.0 [33.6 - 62.0]	Lv7	980	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.4 [17.7 - 38.9]	-	Lv7	1,630	0.4 - 2.8 [3.5 - 24.7]
Lv8	590	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	3.8 - 7.0 [33.6 - 62.0]	Lv8	1,090	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	-	Lv8	1,810	0.4 - 3.0 [3.5 - 26.6]
Lv9	650	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	3.8 - 7.0 [33.6 - 62.0]	Lv9	1,200	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	-	Lv9	2,000	0.4 - 3.0 [3.5 - 26.6]

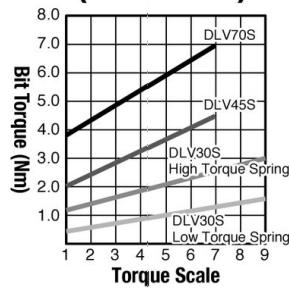
*Speed and torque are for reference only. The actual values depend on the materials to be fastened and size of screws. The values are not guaranteed.

Setting Range for Standard Models

The low speed level is effective in hard-to-fasten applications such as tapped holes in sheet metal, stainless steel, and plastic.
The high speed level is effective in shortening the cycle time in an assembly line.



*Graphs are for reference only. The actual values depend on usage conditions.

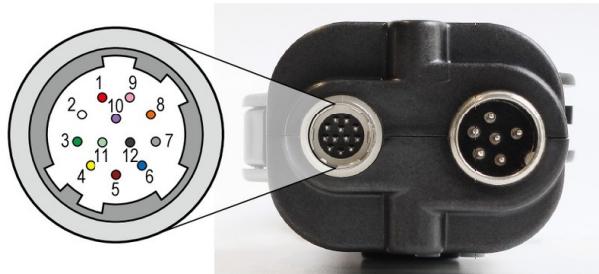
Torque Diagrams (for reference)**Equipped with the External Signal Connector**

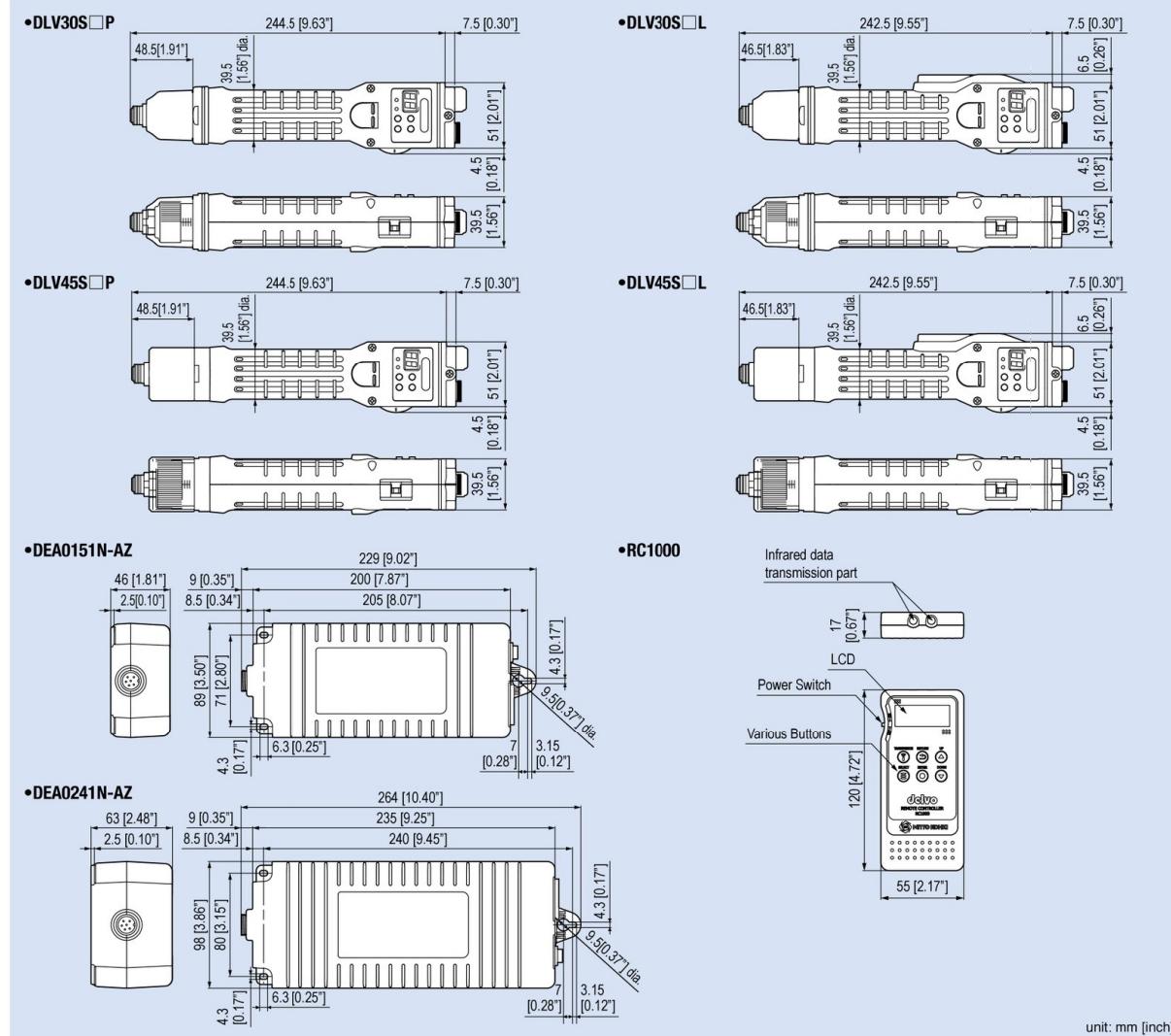
The screwdriver can accept an external signal or output a signal externally through the external signal connector.

Pin No.	Lead wire color	Signal	Input / output
1	Red	+24 V DC power (supplied from outside)	
2	White	Workpiece Signal	Input
3	Green	Reset signal	Input
4	Yellow	LINK-IN Forced stop signal	Input
5	Brown	OK Signal	Output
6	Blue	NG Signal	Output
7	Gray	LINK-OUT Channel switching signal	Output
8	Orange	Torque-up (count) signal	Output
9	Peach	Channel A	Input
10	Purple	Channel B	Input
11	Yellow Green	Channel C	Input
12	Black	0 V DC	

Lead wire colors are the ones used in the optional signal cable ass'y DLW9090.

*Either Pin No. 4 or 7 must be selected, but not both.



S Series (Variable speed Type) Model DLV30S/45S/70S**delvo Brushless Type****Optional Accessories****External Dimensions**



A Series (Low Voltage Type) Model DLV30A/45A/70A CE

delvo Brushless Type

Features

Eco-friendly electric screwdrivers with built-in brushless motors in a low voltage (DC) profile

- Torque range from 0.4 to 7.0 Nm
- Speed range from 650 to 2000 min⁻¹
- Both the Lever Start and Push to Start type models are available
- Equipped with a torque adjustment ring cover
- Design conforms to the RoHS Directive and thus appeals to the environmentally conscious user
- Easily detachable Pistol Grip DLW2300ESD (TD01965) comes with the unit as a standard accessory (DLV45A/70A)
- ESD (electrostatic discharge) protection structure

Specifications

	Low Speed		Standard		High Speed		Low Speed		Standard		Low Speed						
	Model	Bit	Lever Start	DLV30A06L-AY	K	DLV30A12L-AY	K	DLV30A20L-AY	K	DLV45A06L-AY	K	DLV45A12L-AY	K	DLV70A06L-AY	K		
Power Source		DEA0151N-AZ or DEA0241N-AZ				DEA0241N-AZ				DEA0151N-AZ or DEA0241N-AZ				DEA0241N-AZ			
Torque Adjustment		Stepless															
Torque (Nm [lbf-in])	Low Torque Spring ^{*1}	0.4 - 1.6 [3.5 - 14.2]								2.0 - 4.5 [17.7 - 39.8]				3.8 - 7.0 [33.6 - 62.0]			
High Torque Spring ^{*2}		1.2 - 3.0 [10.6 - 26.6]															
Free Speed (min ⁻¹)		650		1200		2000			650		1200		650				
Power Consumption (W)									44								
Screw Size (mm)	Machine Screw	2.6 - 5.0								4.5 - 6.0				5.0 - 8.0			
(mm)	Tapping Screw	2.5 - 4.0								4.0 - 5.0				4.5 - 6.0			
Mass (g [lbs])		690 [1.52]								840 [1.85] (with Pistol Grip)							
Standard Accessories	• Bit NK35(No.2 × 7 × 75): 1 pc. • Suspension Bail: 1 pc.				• Low Torque Spring: 1 pc. • Connection Cord (DLW9073): 1 pc.				• Bit NK35(No.2 × 7 × 75): 1 pc. • Connection Cord (DLW9073): 1 pc.				• Suspension Bail: 1 pc. • Pistol Grip (DLW2300ESD): 1 pc.				
Power Supply	Model	DEA0151N-AZ	DEA0241N-AZ	Bit Type													
Input		100 - 240 V AC, 50/60 Hz											*1: Standard Accessory *2: Installed				
Output			40 V DC														
Maximum Rated Power (W)		150	240														
Mass (kg)		0.56	0.9														

*The power cord is sold separately.

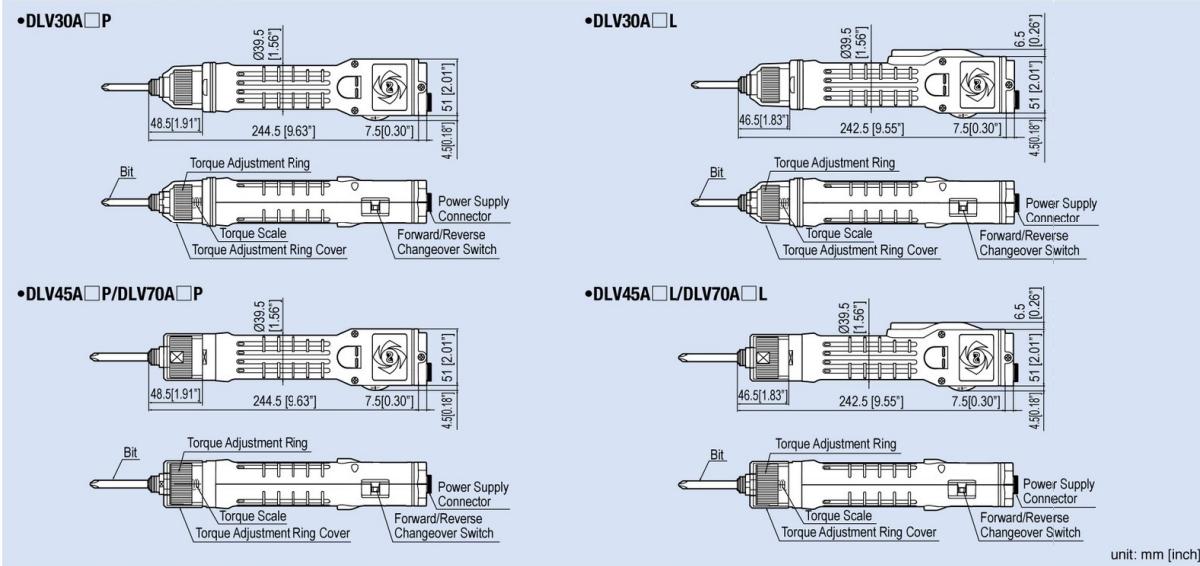
Ask us for the required power cord when ordering.

Please contact us for 5 mm bit type.

Optional Accessories



External Dimensions



(See page 12 for external dimensions of power supply DEA0151N-AZ and DEA0241N-AZ)



delvo Brushless Type

A Series (Transformerless Type) Model DLV30A/45A/70A CE



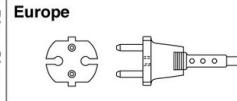
Features

Eco-friendly electric screwdrivers with built-in brushless motors in a transformerless profile

- Torque range from 0.4 to 7.0 Nm
- Speed range from 650 to 2000 min⁻¹
- Both the Lever Start and Push to Start type models are available
- Equipped with a torque adjustment ring cover
- Design conforms to the RoHS Directive and thus appeals to the environmentally conscious user
- Easily detachable Pistol Grip DLW2300 (TD00335) comes with the unit as a standard accessory (DLV45A/70A)

Specifications

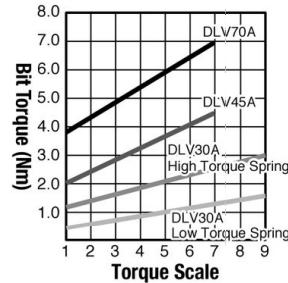
Electric Screwdriver	Low Speed		Standard		High Speed		Low Speed		Standard		Low Speed			
	Model	Bit	Lever Start	DLV30A06L-AB	K	DLV30A12L-AB	K	DLV30A20L-AB	K	DLV45A06L-AB	K	DLV45A12L-AB	K	DLV70A06L-AB
Input Voltage													230 V AC, 50/60 Hz	
Torque Adjustment													Stepless	
Torque (Nm [lbf·in])	Low Torque Spring [*]			0.4 - 1.6 [3.5 - 14.2]						2.0 - 4.5 [17.7 - 39.8]			3.8 - 7.0 [33.6 - 62.0]	
(Nm [lbf·in])	High Torque Spring [*]			1.2 - 3.0 [10.6 - 26.6]										
Free Speed (min ⁻¹)	650			1200			2000		650	1200		650		
Power Consumption (W)									Approx. 45					
Screw Size (mm)	Machine Screw			2.6 - 5.0					4.5 - 6.0			5.0 - 8.0		
	Tapping Screw			2.5 - 4.0					4.0 - 5.0			4.5 - 6.0		
Mass (g [lbs])	700 [1.54]								870 [1.92] (with Pistol Grip)					
Standard Accessories	• Bit NK35(No.2 × 7 × 75): 1 pc. • Suspension Bail: 1 pc. • Low Torque Spring: 1 pc.													
Bit Type	• Bit NK35(No.2 × 7 × 75): 1 pc. • Suspension Bail: 1 pc. • Low Torque Spring: 1 pc.													
Please contact us for 5 mm bit type.														



*1: Standard Accessory

*2: Installed

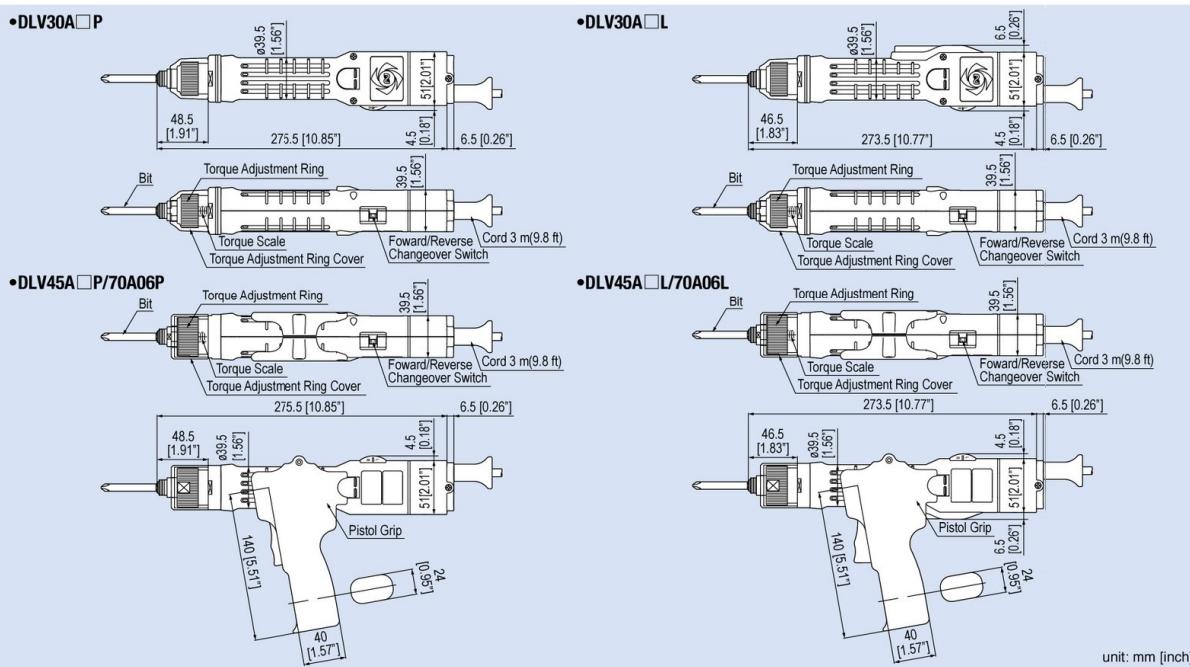
Torque Diagrams (for reference)



Optional Accessories



External Dimensions





DLV02/12/16 Series CE



Features

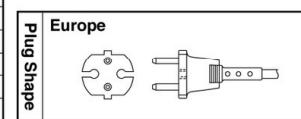
Brushless motors are incorporated for maximum tool life

- Ergonomic grip offers greater operator comfort and increased maneuverability
- Grounded bit system standard
- Clear plastic torque adjustment cover provided as standard accessory (DLV02/12/16SL-CKE)
- ESD (electrostatic discharge) protection structure (DLV02/12/16SL-BKE)
- Compliant with CE standards
- Controllers feature an overload detection function. When an overload is detected, the controller stops the screwdriver. Operation can be resumed after the screwdriver is unloaded, and the lever released (DLC16S)
- Universal input voltage from 100 to 240 V AC for easy installation (DLC16S)
- Variable speed adjustment enables you to select optimum screw tightening speed (DLC16S)

Specifications

Electric Screwdriver	Model	Standard Type	DLV02SL-CKE	DLV12SL-CKE	DLV16SL-CKE
	ESD Protection Type	DLV02SL-BKE	DLV12SL-BKE	DLV16SL-BKE	
Starting Method					Lever Start
Input Voltage					20 - 30 V DC
Torque Adjustment					Stepless
Torque (Nm [lbf-in])					0.03 - 0.2 [0.3 - 1.8] 0.15 - 1.2 [1.3 - 10.6] 0.2 - 1.6 [1.8 - 14.2]
Free Speed (min⁻¹)					700 - 1000
Power Consumption (W)					48
Screw Size	Machine Screw (mm)	1.0 - 2.2	1.4 - 3.0	2.2 - 4.0	
	Tapping Screw (mm)	1.0 - 2.0	1.4 - 2.6	2.0 - 3.0	
Mass (g [lbs])					470 [1.04]
Bit Type					
					unit: mm

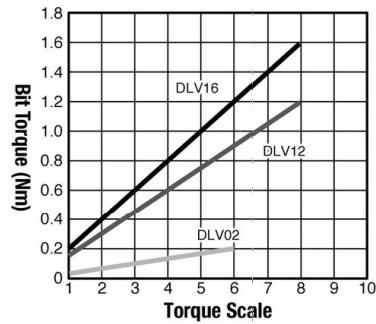
Controller	Model	DLC16S-WGB
	Input Voltage	100 - 240 V AC, 50/60 Hz
	Output Voltage	20 - 30 V DC
	Function	Speed Control
	Mass (g [lbs])	380 [0.84]



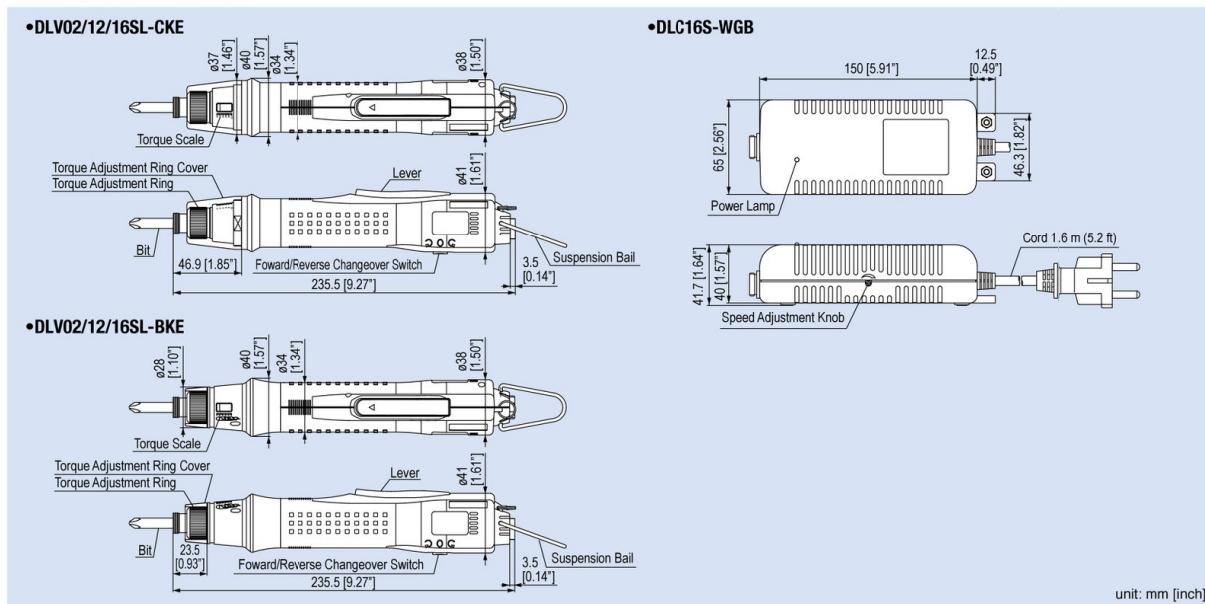
Standard Accessories

Model	DLV02	DLV12	DLV16
Bit NK36	No.0 x 3.8 x 50	1	-
	No.1 x 3.8 x 50		1
	No.2 x 4.5 x 50	-	1
Connection Cord		1	
Suspension Bail		1	

Torque Diagrams (for reference)



External Dimensions

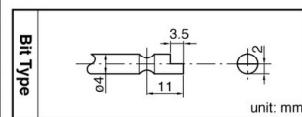


**delvo****DLV7400A Series** **Specifications**

Electric Screwdriver	Model	Standard Type	DLV7410A-BME	DLV7410HA-BME	DLV7420A-BME			
	Clean Room Type	DLV7419A-BME	DLV7419HA-BME	DLV7429A-BME				
Starting Method					Lever Start			
Input Voltage					40 V DC			
Torque Adjustment					Stepless			
Torque (Nm [lbf-in])					0.02 - 0.2 [0.2 - 1.8]			
Free Speed (min ⁻¹)					500 - 750			
Power Consumption (W)					Approx. 10			
Screw Size	Machine Screw (mm)	1.0 - 2.3	1.6 - 2.6					
	Tapping Screw (mm)	1.0 - 2.0	1.4 - 2.3					
Mass (g [lbs])					Standard Type 230 [0.51] / Clean Room Type 275 [0.61]			
Controller	Model	DLC1110-EN	DLC1110-FE	DLC1110-GE	DLC1110-GG	DLC1110-HE	DLC1213A-GGB ^{*1}	DLC1213A-HEB ^{*1}
Features	Standard	Standard	Standard	With CE Mark	With CE Mark	With CE Mark	Standard	
	Input Voltage	100 V AC, 50/60 Hz	115 V AC, 50/60 Hz	220 V AC, 50/60 Hz	230 V AC, 50/60 Hz	240 V AC, 50/60 Hz	230 V AC, 50/60 Hz	240 V AC, 50/60 Hz
	Control Function	Soft Start, Speed Control, ESD Protected						
	Plug Shape	USA	USA	UK	Europe	UK	Europe	UK
	Mass (g [lbs])	900 [1.98]					2300 [5.07]	
Plug Shape	USA	Europe	UK					

Features**The light and compact body reduces operator fatigue**

- Reduces shock applied to workpieces when fastening screws
- ESD (electrostatic discharge) protection structure
- Lightweight (Standard type 230 g, Clean room type 275 g)
- The Clean Room Type complies with Class 3 Clean Room Rating
- The controller can adjust speed (Screw-fastening speed can be set to suit specific fastening conditions)
- The controller provides a soft start function
- The initial speed at screwdriver startup can therefore be slowed down, effectively preventing screw heads from being scratched
- The built-in coreless motor achieves reduced inertia
- Torque accuracy is within a top-ranked worldwide level (Based on measurements at our laboratory)
- Compliant with CE standards
- Use of the Screw Fastening Counter prevents human fastening errors and enhances accurate fastening control (No CE marking or CCC applied)
- Screw Fastening Counter Model DLR5640-WN works in conjunction with any dedicated SPC-type electric screwdrivers



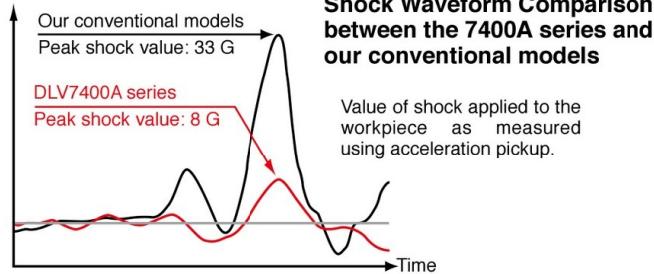
*1: An optional cord DLW9072 is required to connect with this model.
Neither DLC1213A-GG nor DLC1213A-HE can be used with the DLV7400A series.

Model DLC1213A-GGB or DLC1213A-HEB + Cord DLW9072

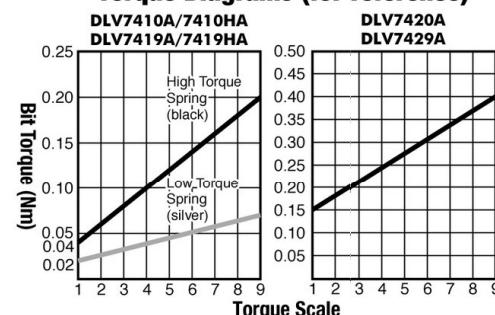
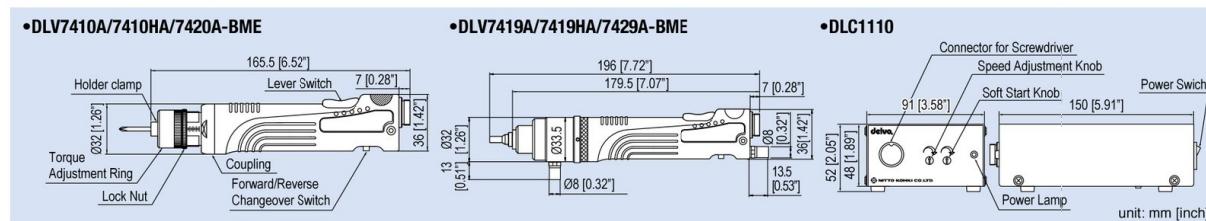
Standard Accessories

Model	DLV7410A/DLV7410HA	DLV7420A	DLV7419A/DLV7419HA	DLV7429A
Bit NK4D	No.0 x 1.8 x 44	1	-	1
	No.0 x 2.5 x 44	1	1	1
	No.1 x 4 x 44	-	1	-
Connection Cord DLW9070	1	1	1	1
Low Torque Spring	1	-	1	-
Suspension Bail	1	1	1	1
Vacuum Sleeve	DLS2120	-	-	1
	DLS2124	-	-	1

Shock value

**Shock Waveform Comparison between the 7400A series and our conventional models****Optional Accessories**

* Please see page 39 for details.

Torque Diagrams (for reference)**External Dimensions**



DLV5700 Series Non-CE



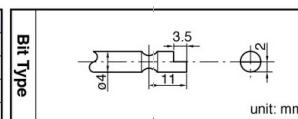
Features

For quality improvement and productivity enhancement

- Grounded bit installation mechanism
- ESD (electrostatic discharge) protection structure
- Low-shock for tightening (30 % less of standard models)
- Low swing bit mechanism
- Ergonomic design
- High-performance DC motor
- New clutch mechanism

Specifications

Model	DLV5720	DLV5720H	DLV5740	DLV5740H	DLV5750	
Starting Method	Lever Start					
Input Voltage	40 V DC			36 V DC		
Torque Adjustment	Stepless					
Torque (Nm [lbf-in])	0.02 - 0.2 [0.2 - 1.8]		0.15 - 0.4 [1.3 - 3.5]	0.1 - 0.55 [0.9 - 4.9]		
Free Speed (min ⁻¹)	500 - 750	700 - 1000	450 - 600	1200 - 1800	670 - 1000	
Power Consumption (W)	Approx. 10			Approx. 35		
Screw Size (mm)	Machine Screw 1.0 - 2.3		1.6 - 2.6	1.0 - 3.0		
	Tapping Screw 1.0 - 2.0		1.4 - 2.3	1.0 - 2.6		
Mass (g [lbs])	230 [0.51]			300 [0.66]		
Standard Accessories	<ul style="list-style-type: none"> • Bit NK4D(No.0 × 1.8 × 44): 1 pc. • Bit NK4D(No.0 × 2.5 × 44): 1 pc. • Connection Cord (1.5 m)DLW9081: 1 pc. • Suspension Bail: 1 pc. • Low Torque Spring: 1 pc. 			<ul style="list-style-type: none"> • Bit NK4D(No.0 × 2.5 × 44): 1 pc. • Bit NK4D(No.1 × 4 × 44): 1 pc. • Connection Cord (1.5 m)DLW9081: 1 pc. • Suspension Bail: 1 pc. 		
Electric Screwdriver Controller	Model	DLCO350E	DLCO350F	DLCO350G	DLCO950E	DLCO950G
	Input Voltage	100 V AC, 50/60 Hz	115 V AC, 50/60 Hz	230 V AC, 50/60 Hz	100 V AC, 50/60 Hz	230 V AC, 50/60 Hz
	Plug Shape	USA	UK	USA	USA	
	Mass (g [lbs])	900 [1.98]			1800 [3.97]	

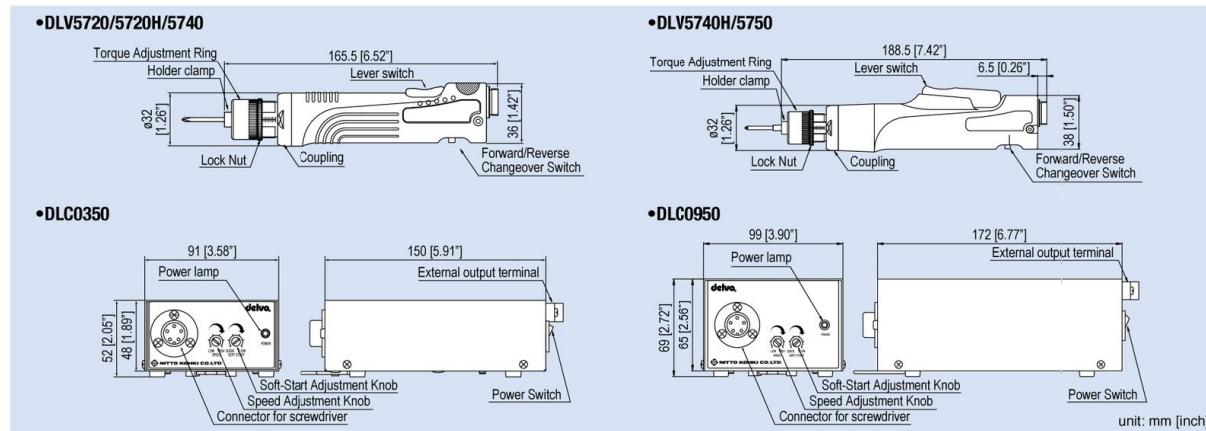


Optional Accessories

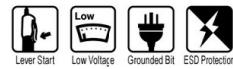


* Please see page 39 for details.

External Dimensions



Low Voltage (DC)	
Brush motor	Brushless motor
Miniature screw	Precision screw
1.0 - 2.6 mm	Machine screw



DLV5800 Series Non-CE

DLV5800 series



DLC0250E



DLC0350



Features

In response to the needs of cell production system, space-saving delvo screwdrivers are released. Controller is designed for emphasis on space-saving size and lightness.

- Clear disengagement of clutch (low-shock mechanism unavailable)
- Grounded bit installation mechanism
- ESD (electrostatic discharge) protection structure
- New lever is adopted
- Low swing bit mechanism
- Low voltage transformerless controller

Specifications

Model	DLV5820	DLV5820H	DLV5840
Starting Method		Lever Start	
Input Voltage		40 V DC	
Torque Adjustment		Stepless	
Torque (Nm [lbf-in])	0.02 - 0.2 [0.2 - 1.8]		0.15 - 0.4 [1.3 - 3.5]
Free Speed (min ⁻¹)	750	1000	600
Power Consumption (W)		Approx. 10	
Screw Size (mm)	Machine Screw 1.0 - 2.3 Tapping Screw 1.0 - 2.0	1.6 - 2.6	1.4 - 2.3
Mass (g [lbs])	230 [0.51]		
Cord Length (m)	1.5 (with connector)		
Grounding Bit Feature		Equipped as standard	
Standard Accessories	<ul style="list-style-type: none"> • Bit NK4D(No.0 × 1.8 × 44): 1 pc. • Bit NK4D(No.0 × 2.5 × 44): 1 pc. • Suspension Bail: 1 pc. • Connection Cord (1.5 m) DLW9081: 1 pc. • Low Torque Spring (Silver): 1 pc. 	<ul style="list-style-type: none"> • Bit NK4D(No.0 × 2.5 × 44): 1 pc. • Bit NK4D(No.1 × 4 × 44): 1 pc. • Suspension Bail: 1 pc. • Connection Cord (1.5 m) DLW9081: 1 pc. 	
Bit Type	 unit: mm		

Controller	Model	DLC0250E
	Input Voltage	100 V AC, 50/60 Hz
	Function	Grounded Bit Installation Mechanism
	Mass (g [lbs])	300 [0.66]
	Case Material	Antistatic material
Plug Shape	USA	

* Electric screwdrivers DLV5800 series can be also used with **DLC0350**.

Optional Accessories



Sleeve

Vacuum Pickup
DLP5300 (TD04342)Torque Adjustment Ring Cover
DLW5700 (TD02875)

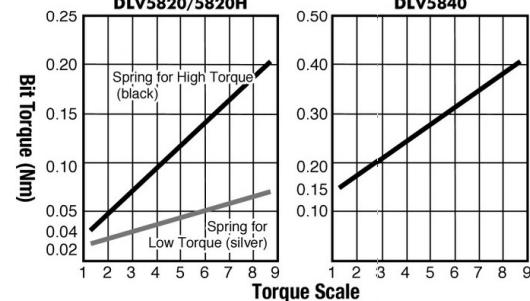
* Please see page 39 for details.

This minimizes tampering or accidental turning of the torque adjustment ring once the torque is set.

Torque Diagrams (for reference)

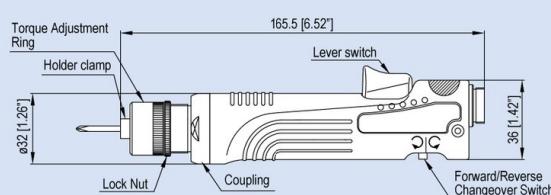
DLV5820/5820H

DLV5840

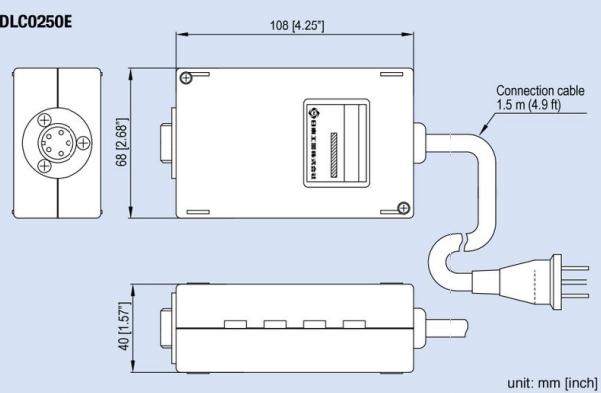


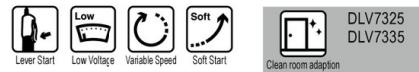
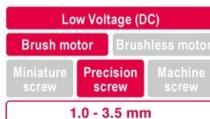
External Dimensions

•DLV5820/5820H/5840



•DLC0250E





DLV7300 Series

DLV7313/7323/7333



DLV7325/7335



DLC1213A



Features

- The dedicated controller realizes high-accuracy screw tightening
- High repeatable torque accuracy
- The controller provides a soft start function. The initial speed at screwdriver startup can therefore be slowed down, effectively preventing screw heads from being scratched.
- Variable speed adjustment enables to select optimum screw tightening speed.
- DLV7325, DLV7335 meet Class 5¹ Clean Room standards

¹: Based on Nitto Kohki's standard of measurement

Specifications

Electric Screwdriver	Model	Standard		Clean Room Use		
		DLV7313-CME	DLV7323-CME	DLV7333-CME	DLV7325-CME ²	
		DLV7323-CKE	DLV7333-CKE	DLV7325-CKE	DLV7335-CKE	
Starting Method		Lever Start				
Input Voltage		36 V DC				
Torque Adjustment		Stepless				
Torque (Nm [lbf·in])		0.03 - 0.15 [0.3 - 1.3]	0.05 - 0.5 [0.4 - 4.4]	0.3 - 1.2 [2.7 - 10.6]	0.05 - 0.5 [0.4 - 4.4]	
Free Speed (min ⁻¹)		700 - 1000	500 - 700	700 - 1000	500 - 700	
Power Consumption (W)		Approx. 35				
Screw Size	Machine Screw (mm)	Up to 2.0	1.0 - 3.0	2.0 - 3.5	1.0 - 3.0	
	Tapping Screw (mm)	Up to 1.7	1.2 - 2.6	2.0 - 3.0	1.2 - 2.6	
Mass (g [lbs])		350 [0.77]		400 [0.88]		

*2: Vacuum pump for suction of screw is available as option. See page 40 for details of the vacuum pump.

Controller	Model	Features	Input Voltage	Control Function	Plug Shape	Mass (g [lbs])
	DLC1213A-EN	Standard	100 V AC, 50/60 Hz		Asia	
	DLC1213A-FE ³	Standard	115 V AC, 50/60 Hz			
	DLC1213A-GE	Standard	220 V AC, 50/60 Hz	Soft start, Speed control	UK	2300 [5.07]
	DLC1213A-GG	With CE Mark	230 V AC, 50/60 Hz		Europe	
	DLC1213A-GGU	With CE Mark	230 V AC, 50/60 Hz		UK	
	DLC1213A-HE	Standard	240 V AC, 50/60 Hz		Without Plug	

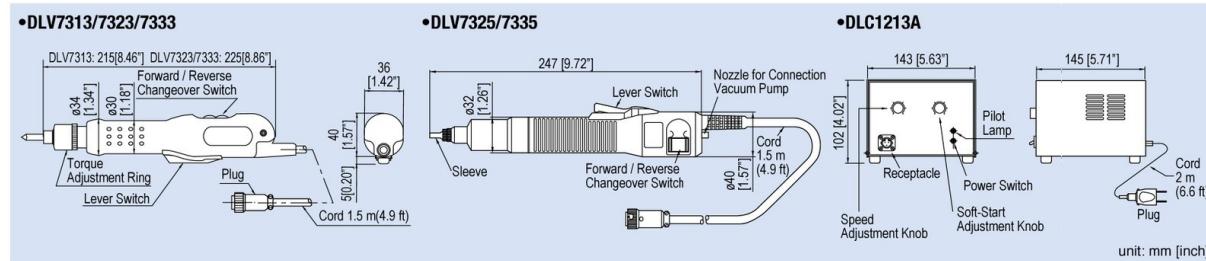
*3: This model is made to order.

Plug Shape	Asia	Europe	UK

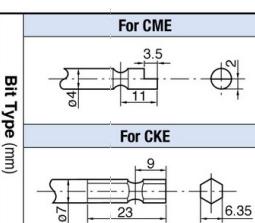
Standard Accessories

Model	DLV7313-CME	DLV7323-CME	DLV7333-CME	DLV7323 / 31 / 33-CKE	DLV7325-CME	DLV7335-CME	DLV7325 / 35-CKE
Bit	NK4D No.0 x 1.8 x 44	1	-	-	-	-	-
	NK4D No.0 x 2.5 x 44	1	1	-	1	-	-
	NK4D No.1 x 3 x 44	-	-	1	-	1	-
	NK4D No.1 x 4 x 44	-	1	-	1	-	-
	NK35 No.1 x 7 x 50	-	-	-	1	-	-
	NK4D No.2 x 4 x 44	-	-	1	-	1	-
	NK36 No.2 x 4.5 x 50	-	-	-	-	-	1
	NK35 No.2 x 7 x 50	-	-	-	1	-	-
Vacuum Sleeve	DLS2124	-	-	-	1	-	-
	DLS2127	-	-	-	1	1	-
	DLS2130	-	-	-	1	1	-
	DLS2134	-	-	-	-	1	-
	DLS2135	-	-	-	-	-	1
Suspension Bail				1			

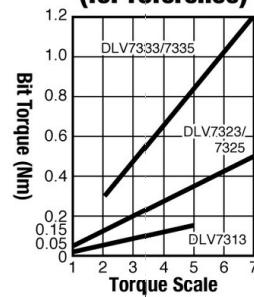
External Dimensions



delvo



Torque Diagrams (for reference)



Optional Accessories



This minimizes tampering or accidental turning of the torque adjustment ring once the torque is set.

Torque Adjustment Ring Cover
for DLV7303 DLW5500 (TD0033)

Low Voltage (DC)									DLV7319-BME DLV7339-BME
Brush motor	Brushless motor								DLV7329-BME DLV7349-BME
Miniature screw	Precision screw	Machine screw							
1.0 - 3.5 mm									

delvo**DLV7300-BME/BKE Series** 

DLC1213A

Features**Workpiece-conscious electric screwdrivers**

- Static electricity buildup is prevented to protect workpieces from electrostatic discharge
- Minimal impact in screw tightening protects workpieces from damaging and enables stable screw tightening
- ESD (electrostatic discharge) protection structure
- Meet Class 5*1 or more Clean Room standards

*1. Based on Nitto Kohki's standard of measurement

Specifications

Electric Screwdriver	Model	ESD		ESD / Low Shock					
		Bit Shank:ø4 mm	DLV7321-BME*2	DLV7331-BME*2	DLV7319-BME*2	DLV7329-BME*2	DLV7339-BME	DLV7349-BME*2	
		Bit Shank:Hex. 6.35 mm	DLV7321-BKE	DLV7331-BKE					
Starting Method		Lever Start							
Input Voltage		36 V DC							
Torque Adjustment		Stepless							
Torque (Nm [lbf-in])		0.05 - 0.50 [0.4 - 4.4]	0.30 - 1.20 [2.7 - 10.6]	0.20 - 0.40 [1.8 - 3.5]	0.25 - 0.55 [2.2 - 4.9]	0.45 - 0.95 [4.0 - 8.4]	0.55 - 1.20 [4.9 - 10.6]		
Free Speed (min ⁻¹)		700 - 1000	500 - 700	700 - 1000	500 - 700				
Power Consumption (W)				Approx. 35					
Screw Size	Machine Screw (mm)	1.0 - 3.0	2.0 - 3.5	2.0 - 3.0	2.0 - 3.0	3.0 - 3.5			
	Tapping Screw (mm)	1.2 - 2.6	2.0 - 3.0	2.0 - 2.6	2.0 - 2.6	2.6 - 3.0			
Mass (g [lbs])		350 [0.77]		400 [0.88]					
For BME		For BKE		*2: These models are made to order.					
Bit Type (mm)									

*3: This model is made to order.

Controller	Model	Features	Input Voltage	Plug Shape	Control	Mass (g [lbs])	Plug Shape		
							Europe	UK	USA
	DLC1213A-ENB	Standard	100 V AC, 50/60 Hz	USA	Grounding,	2300			
	DLC1213A-FEB*3	Standard	115 V AC, 50/60 Hz	USA	Soft Start,	[5.07]			
	DLC1213A-GGB	With CE mark	230 V AC, 50/60 Hz	Europe	Speed Control				
	DLC1213A-HEB	Standard	240 V AC, 50/60 Hz	UK					

*3: This model is made to order.

Measurement Point**Conventional Product****DLV7300-B□E****Handle****Lever Switch****Forward / Reverse Switch****Power Cable**

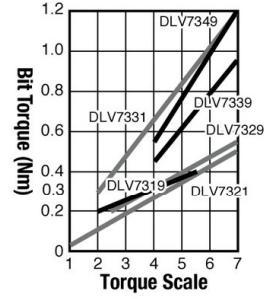
Part	Material
Handle Lever Switch	Synthetic resin with carbon fiber
Power Cable	Anti-static material

* Measurement conditions (Temperature: 22 °C Humidity: 66 %)

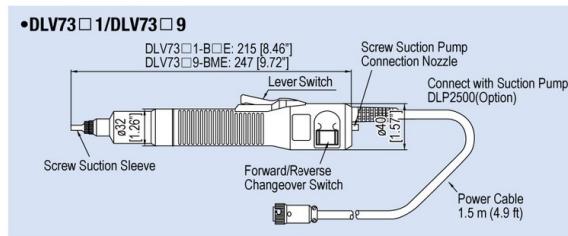
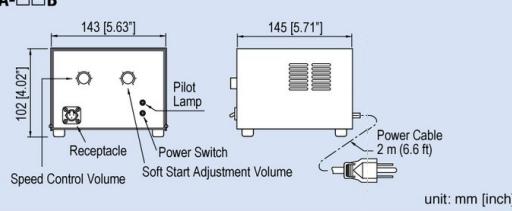
- (1) Static electricity • Earth the measurement equipment and measuring person.
• Grip the screwdriver five times using Ansel Edmont electronic control glove.

- Turn on the switch of the screwdriver. • Measure each part of the screwdriver using electronic measurement equipment manufactured by Shishido electrostatic Ltd.

(2) Surface resistance • Measure using Simco Japan surface resistivity measurement equipment.

Torque Diagrams (for reference)**Standard Accessories**

Model	DLV7319/29-BME	DLV7339/49-BME	DLV7321-BME	DLV7331-BME	DLV7321/31-BKE
Bit	NK4D No.0 x 2.5 x 44	1	-	1	-
	NK4D No.1 x 3 x 44	-	1	-	1
	NK4D No.1 x 4 x 44	1	-	1	-
	NK35 No.1 x 7 x 50	-	-	-	1
	NK4D No.2 x 4 x 44	-	1	-	1
	NK35 No.2 x 7 x 50	-	-	-	1
Vacuum Sleeve	DLS2124	1	-	-	-
	DLS2127	1	1	-	-
	DLS2130	1	1	-	-
	DLS2134	-	1	-	-
Suspension Bail				1	

External Dimensions**•DLC1213A-□□B**

unit: mm [inch]

**delvo****Specifications**

Model	Standard		High Torque		Standard		High Torque	
	Standard Type	DLV7530-MKE	DLV7540-MKE	DLV7550-MKE	DLV8530-MKE	DLV8540-MKE	DLV8550-MKE	
ESD Protection Type	DLV7530-BKE	DLV7540-BKE	DLV7550-BKE	DLV8530-BKE	DLV8540-BKE	DLV8550-BKE		
Starting Method								
Lever Start								
Input Voltage								
59 V DC								
Torque Adjustment								
Stepless								
Torque	(Nm [lbf-in])	0.5 - 1.7 [4.4 - 15.1]	1.2 - 2.7 [10.6 - 23.9]	2.0 - 4.5 [17.7 - 39.8]	0.5 - 1.7 [4.4 - 15.1]	1.2 - 2.7 [10.6 - 23.9]	2.0 - 4.5 [17.7 - 39.8]	
Free Speed	(min ⁻¹)	1100	700	500	1100	700	500	
Screwdriver	Machine Screw (mm)	2.6 - 4.0	3.5 - 5.0	4.5 - 6.0	2.6 - 4.0	3.5 - 5.0	4.5 - 6.0	
	Tapping Screw (mm)	2.3 - 3.5	3.0 - 4.0	4.0 - 5.0	2.3 - 3.5	3.0 - 4.0	4.0 - 5.0	
Mass	(g [lbs])	650 [1.43]		750 [1.65]		650 [1.43]		750 [1.65]
Bit Type								
 unit: mm								

	Measurement Point	Conventional Product	DLV7500/8500-BKE
Handle	Static Electricity (V)	350	5
	Surface Resistance (Ω)	more than 10 ¹³	10 ⁴
Lever Switch	Static Electricity (V)	350	2
	Surface Resistance (Ω)	more than 10 ¹³	10 ⁴
Forward / Reverse Switch	Static Electricity (V)	25	2
	Surface Resistance (Ω)	more than 10 ¹³	10 ¹⁰
Connection Cable	Static Electricity (V)	110	5
	Surface Resistance (Ω)	more than 10 ¹³	

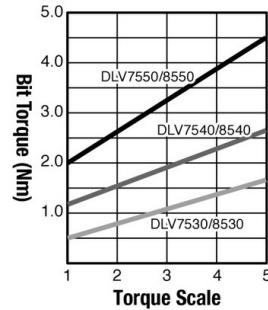
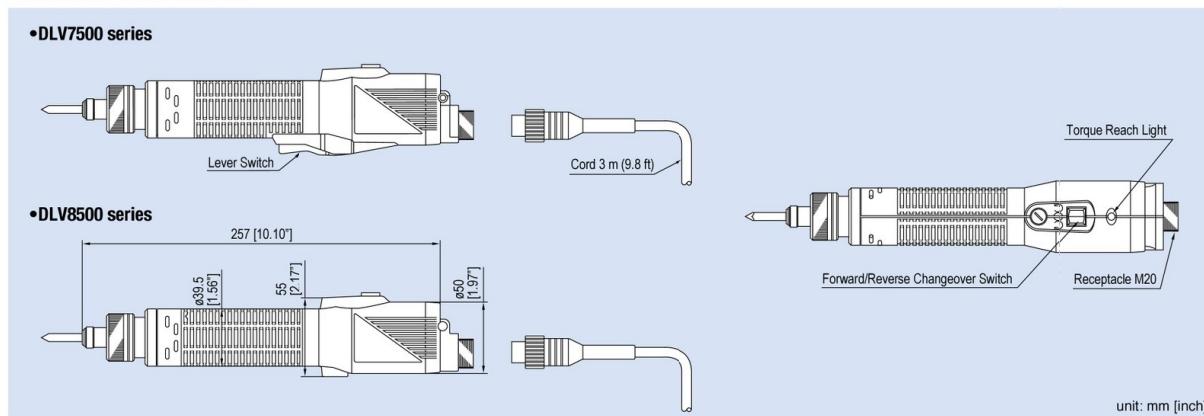
Part	Material
Handle Lever Switch	Synthetic resin with carbon fiber
Power Cable	Anti-static material

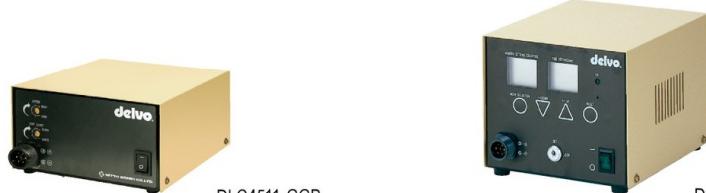
* Measurement conditions (Temperature: 22 °C Humidity: 66 %)

- (1) Static electricity • Earth the measurement equipment and measuring person.
- Grip the screwdriver five times using Ansel Edmont electronic control glove.
- Turn on the switch of the screwdriver. • Measure each part of the screwdriver using electronic measurement equipment manufactured by Shishido electrostatic Ltd.
- (2) Surface resistance • Measure using Simco Japan surface resistivity measurement equipment.

Standard Accessories

Model	DLV7530 / 7540 / 8530 / 8540	DLV7550 / 8550-MKE	DLV7550 / 8550-BKE
Bit NK35	No.1 x 7 x 75	1	-
	No.2 x 7 x 75	1	1
	No.3 x 7 x 50	-	1
Pistol Grip	DLW2300	-	1
	DLW2300ESD	-	1
Spare Carbon Brush		2	
Connection Cord		1	
Suspension Bail		1	

Torque Diagrams (for reference)**External Dimensions**



DLC4511-GGB

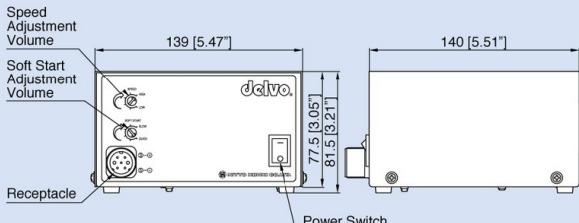
DLR1510-JE

Specifications

Model	DLC4511-GGB	DLR1510-JE
Function	Stepless speed adjustment 80 - 100 % Soft start: adjustable time setting of slow speed (max. 3 sec.) External output signals: start and torque up Electro-static discharge(ESD) control	Screw counting: OK lamp and buzzer for notification Variable non-operation time Setting protection by key lock switch Setting by touch switch for easy operation External output signals: Start, Torque up, Count up & Cycle OK
Controller		
Input Voltage	230 V AC, 50/60 Hz	
Mass (g [lbs])	3500 [7.72]	5100 [11.24]
Plug Shape	Europe	

External Dimensions

•DLC4511-GGB



•DLR1510-JE

