

DISA
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delvo
GENERAL CATALOG



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

delvo

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

* 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.



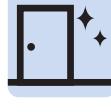
Brushless Motor

Maintenance free, no brush replacement required. Realizes high durability.



Grounded Bit

Prevents electrostatic breakdown when the bit contacts 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.



Transformerless

A dedicated controller is not required. Operates by commercial power supply.



ESD Protection

Prevents electrostatic charging and saves the workpiece from electrostatic breakdown.



Variable Speed

Can be adjusted to a suitable tightening speed.



Low Voltage

Connect to dedicated controller. Operates at electric voltage under 42V.



Low Shock

Softens the shock at the end of tightening and lowers the load to the workpiece.



Soft Start

Gradually increases the rotation speed to prevent damage to the screw head.

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List of Screwdrivers

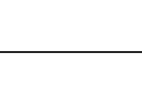
[Brushless Motor - DC Power Supply]

Page	Outer Appearance	Series	Model	Controller			
				Model	SPC Type available (for screw counter)		
7		C Series (Current control type)	DLV04C10L	0.05 - 0.4 [0.4 - 3.5]	1.2	3.0	DCC0101X-AZ
			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	DEA0151N-AZ or DEA0241N-AZ
			DLV30S06P				
			DLV30S12L				
			DLV30S12P				
			DLV30S20L				
			DLV30S20P				DEA0241N-AZ
			DLV45S06L				
			DLV45S06P				
			DLV45S12L				
			DLV45S12P				
13		A Series	DLV70S06L	3.8 - 7.0 [33.6 - 62.0]	4.5	6.0	DEA0151N-AZ or DEA0241N-AZ
			DLV70S06P				
			DLV30A06L				
			DLV30A06P				
			DLV30A12L				
			DLV30A12P				DEA0241N-AZ
			DLV30A20L				
			DLV30A20P				
			DLV45A06L				
			DLV45A06P				
15		DLV02/12/16	DLV45A12L	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	DEA0151N-AZ or DEA0241N-AZ
			DLV45A12P				
			DLV70A06L				
			DLV70A06P				
			DLV02SL-CKE	0.03 - 0.2 [0.3 - 1.8]	1.0	2.2	DEA0241N-AZ
			DLV02SL-BKE	0.15 - 1.2 [1.3 - 10.6]	1.4	3.0	
14		A Series	DLV12SL-CKE	0.2 - 1.6 [1.8 - 14.2]	2.2	4.0	
			DLV12SL-BKE				DLC16S
			DLV16SL-CKE				
			DLV16SL-BKE				
			DLV30A06L	0.4 - 3.0 [3.5 - 26.6]	2.6	5.0	DEA0241N-AZ
			DLV30A06P				
			DLV30A12L				
			DLV30A12P				
			DLV30A20L				
			DLV30A20P				
			DLV45A06L				
			DLV45A06P				
			DLV45A12L				
			DLV45A12P				
			DLV70A06L	3.8 - 7.0 [33.6 - 62.0]	5.0	8.0	
			DLV70A06P				

[Brushless Motor - AC Power Supply]

Page	Outer Appearance	Series	Model	Controller			
				Model	SPC Type available (for screw counter)		
14		A Series	DLV30A06L	0.4 - 3.0 [3.5 - 26.6]	2.6	5.0	DEA0241N-AZ
			DLV30A06P				
			DLV30A12L				
			DLV30A12P				
			DLV30A20L				
			DLV30A20P				
			DLV45A06L				
			DLV45A06P				
			DLV45A12L				
			DLV45A12P				
14		A Series	DLV70A06L	3.8 - 7.0 [33.6 - 62.0]	5.0	8.0	
			DLV70A06P				

[Brush Motor - DC Power Supply]

Page	Outer Appearance	Series	Model	Controller	Outer Appearance																														
					SPC Type available (for screw counter)	Adjustable speed																													
16		7400A	<table border="1"> <thead> <tr> <th>DLV7410A</th> <th>0.02 - 0.2 [0.2 - 1.8]</th> <th>1.0</th> <th>2.3</th> <th rowspan="2">230 [0.51]</th> <th rowspan="6">DLC1110</th> </tr> <tr> <th>DLV7410HA</th> <th>0.15 - 0.4 [1.3 - 3.5]</th> <th>1.6</th> <th>2.6</th> </tr> </thead> <tbody> <tr> <th>DLV7420A</th> <th>0.02 - 0.2 [0.2 - 1.8]</th> <th>1.0</th> <th>2.3</th> <th rowspan="2">275 [0.61]</th> </tr> <tr> <th>DLV7419A</th> <th>0.15 - 0.4 [1.3 - 3.5]</th> <th>1.6</th> <th>2.6</th> </tr> <tr> <th>DLV7419HA</th> <th>0.02 - 0.2 [0.2 - 1.8]</th> <th>1.0</th> <th>2.3</th> <th rowspan="2">●</th> </tr> <tr> <th>DLV7429A</th> <th>0.15 - 0.4 [1.3 - 3.5]</th> <th>1.6</th> <th>2.6</th> </tr> </tbody> </table>	DLV7410A	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	230 [0.51]	DLC1110	DLV7410HA	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6	DLV7420A	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	275 [0.61]	DLV7419A	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6	DLV7419HA	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	●	DLV7429A	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6				
DLV7410A	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	230 [0.51]	DLC1110																														
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17		5700	<table border="1"> <thead> <tr> <th>DLV5720</th> <th>0.02 - 0.2 [0.2 - 1.8]</th> <th>1.0</th> <th>2.3</th> <th rowspan="2">230 [0.51]</th> <th rowspan="6">DLC0350</th> </tr> <tr> <th>DLV5720H</th> <th>0.15 - 0.4 [1.3 - 3.5]</th> <th>1.6</th> <th>2.6</th> </tr> </thead> <tbody> <tr> <th>DLV5740</th> <th>0.02 - 0.2 [0.2 - 1.8]</th> <th>1.0</th> <th>2.3</th> <th rowspan="2">300 [0.66]</th> </tr> <tr> <th>DLV5740H</th> <th>0.15 - 0.4 [1.3 - 3.5]</th> <th>1.6</th> <th>2.6</th> </tr> <tr> <th>DLV5750</th> <th>0.1 - 0.55 [0.9 - 4.9]</th> <th>1.0</th> <th>3.0</th> <th rowspan="2">●</th> </tr> <tr> <th>DLV5750H</th> <th>0.15 - 0.4 [1.3 - 3.5]</th> <th>1.6</th> <th>3.0</th> </tr> </tbody> </table>	DLV5720	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	230 [0.51]	DLC0350	DLV5720H	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6	DLV5740	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	300 [0.66]	DLV5740H	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6	DLV5750	0.1 - 0.55 [0.9 - 4.9]	1.0	3.0	●	DLV5750H	0.15 - 0.4 [1.3 - 3.5]	1.6	3.0				
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DLV5840	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	●																															
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19		7300	<table border="1"> <thead> <tr> <th>DLV7313</th> <th>0.03 - 0.15 [0.3 - 1.3]</th> <th>Up to 2.0</th> <th rowspan="2">350 [0.77]</th> <th rowspan="6">DLC1213A</th> </tr> <tr> <th>DLV7323</th> <th>0.05 - 0.5 [0.4 - 4.4]</th> <th>1.0</th> <th>3.0</th> </tr> </thead> <tbody> <tr> <th>DLV7333</th> <th>0.3 - 1.2 [2.7 - 10.6]</th> <th>2.0</th> <th>3.5</th> <th>●</th> </tr> <tr> <th>DLV7325</th> <th>0.05 - 0.5 [0.4 - 4.4]</th> <th>1.0</th> <th>3.0</th> <th>●</th> </tr> <tr> <th>DLV7335</th> <th>0.3 - 1.2 [2.7 - 10.6]</th> <th>2.0</th> <th>3.5</th> <th>●</th> </tr> <tr> <th>DLV7337</th> <th>0.3 - 1.2 [2.7 - 10.6]</th> <th>2.0</th> <th>3.5</th> <th>●</th> </tr> </tbody> </table>	DLV7313	0.03 - 0.15 [0.3 - 1.3]	Up to 2.0	350 [0.77]	DLC1213A	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	●	DLV7335	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5	●	DLV7337	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5	●			
DLV7313	0.03 - 0.15 [0.3 - 1.3]	Up to 2.0	350 [0.77]	DLC1213A																															
DLV7323	0.05 - 0.5 [0.4 - 4.4]	1.0			3.0																														
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DLV7325	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0		●																														
DLV7335	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5		●																														
DLV7337	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5		●																														
																																			
																																			
																																			
																																			
																																			
20		7300-BME/ BKE	<table border="1"> <thead> <tr> <th>DLV7321</th> <th>0.05 - 0.5 [0.4 - 4.4]</th> <th>1.0</th> <th>3.0</th> <th rowspan="2">350 [0.77]</th> <th rowspan="6">DLC1213A</th> </tr> <tr> <th>DLV7331</th> <th>0.3 - 1.2 [2.7 - 10.6]</th> <th>1.0</th> <th>3.5</th> </tr> </thead> <tbody> <tr> <th>DLV7319</th> <th>0.2 - 0.4 [1.8 - 3.5]</th> <th>2.0</th> <th>3.0</th> <th>●</th> </tr> <tr> <th>DLV7329</th> <th>0.25 - 0.55 [2.2 - 4.9]</th> <th>2.0</th> <th>3.0</th> <th>●</th> </tr> <tr> <th>DLV7339</th> <th>0.45 - 0.95 [4.0 - 8.4]</th> <th>2.0</th> <th>3.5</th> <th>●</th> </tr> <tr> <th>DLV7349</th> <th>0.55 - 1.2 [4.9 - 10.6]</th> <th>2.0</th> <th>3.5</th> <th>●</th> </tr> </tbody> </table>	DLV7321	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	350 [0.77]	DLC1213A	DLV7331	0.3 - 1.2 [2.7 - 10.6]	1.0	3.5	DLV7319	0.2 - 0.4 [1.8 - 3.5]	2.0	3.0	●	DLV7329	0.25 - 0.55 [2.2 - 4.9]	2.0	3.0	●	DLV7339	0.45 - 0.95 [4.0 - 8.4]	2.0	3.5	●	DLV7349	0.55 - 1.2 [4.9 - 10.6]	2.0	3.5	●		
DLV7321	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	350 [0.77]	DLC1213A																														
DLV7331	0.3 - 1.2 [2.7 - 10.6]	1.0	3.5																																
DLV7319	0.2 - 0.4 [1.8 - 3.5]	2.0	3.0	●																															
DLV7329	0.25 - 0.55 [2.2 - 4.9]	2.0	3.0	●																															
DLV7339	0.45 - 0.95 [4.0 - 8.4]	2.0	3.5	●																															
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21		7500	<table border="1"> <thead> <tr> <th>DLV7530-MKE</th> <th>0.5 - 1.7 [4.4 - 15.1]</th> <th>2.6</th> <th>4.0</th> <th rowspan="2">650 [1.43]</th> <th rowspan="6">DLC4511</th> </tr> <tr> <th>DLV7530-BKE</th> <th>1.2 - 2.7 [10.6 - 23.9]</th> <th>3.5</th> <th>5.0</th> </tr> </thead> <tbody> <tr> <th>DLV7540-MKE</th> <th>2.0 - 4.5 [17.7 - 39.8]</th> <th>4.5</th> <th>6.0</th> <th>●</th> </tr> <tr> <th>DLV7540-BKE</th> <th>2.0 - 4.5 [17.7 - 39.8]</th> <th>4.5</th> <th>6.0</th> <th>●</th> </tr> <tr> <th>DLV7550-MKE</th> <th>0.5 - 1.7 [4.4 - 15.1]</th> <th>2.6</th> <th>4.0</th> <th>●</th> </tr> <tr> <th>DLV7550-BKE</th> <th>1.2 - 2.7 [10.6 - 23.9]</th> <th>3.5</th> <th>5.0</th> <th>●</th> </tr> </tbody> </table>	DLV7530-MKE	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	650 [1.43]	DLC4511	DLV7530-BKE	1.2 - 2.7 [10.6 - 23.9]	3.5	5.0	DLV7540-MKE	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	●	DLV7540-BKE	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	●	DLV7550-MKE	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	●	DLV7550-BKE	1.2 - 2.7 [10.6 - 23.9]	3.5	5.0	●		
DLV7530-MKE	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	650 [1.43]	DLC4511																														
DLV7530-BKE	1.2 - 2.7 [10.6 - 23.9]	3.5	5.0																																
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DLV7550-MKE	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	●																															
DLV7550-BKE	1.2 - 2.7 [10.6 - 23.9]	3.5	5.0	●																															
																																			
																																			
																																			
																																			
																																			

List of Screwdrivers

[Brush Motor - AC Power Supply]

Page	Outer Appearance	Series	Model	Torque Range (Nm [lb-in])	Screw Size (mm)		Mass (g [lbs])	SPC Type available (for screw counter)	High Speed	ESS Protection	Push to Start	Lever Start
					min.	max.						
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 - 9.0]		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		●				
		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		●				
			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		●				
			DLV8251	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0		●				
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			●	●		
			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		●		●		
			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	0.4 - 3.0 [3.5 - 26.6]	2.6	700 [1.54]	●		M41 Screw
			DLV30A06A-F			760 [1.68]	●		Flange
			DLV30A06A-M			740 [1.63]	●		Standard
			DLV30A12A-N			700 [1.54]		●	High Speed
			DLV30A12A-F			760 [1.68]		●	Medium Speed
			DLV30A12A-M			740 [1.63]		●	Low Speed
			DLV30A20A-N		5.0	700 [1.54]		●	
			DLV30A20A-F			760 [1.68]		●	
			DLV30A20A-M			740 [1.63]		●	
			DLV45A06A-N	2.0 - 4.5 [17.7 - 39.8]	4.5	780 [1.72]	●		
			DLV45A06A-F			840 [1.85]	●		
			DLV45A06A-M			820 [1.81]	●		
			DLV45A12A-N			780 [1.72]		●	
			DLV45A12A-F			840 [1.85]		●	
			DLV45A12A-M			820 [1.81]		●	
			DLV70A06A-N	3.8 - 7.0 [33.6 - 62.0]	5.0	780 [1.72]	●		
			DLV70A06A-F			840 [1.85]	●		
			DLV70A06A-M			820 [1.81]	●		



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				
			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]			
			DLV3331	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5				

Low Voltage (DC)
Brush motor
Precision screw
Machine screw



1.2 - 4.0 mm



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

delvo Brushless Type

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



Torque: 0.05 - 0.4 Nm (DLV04C)
[0.44 - 3.54 lbf·in]
0.2 - 1.0 Nm (DLV10C)
[1.77 - 8.85 lbf·in]
Speed: 100 - 1000 min⁻¹

Torque range 0.05 - 1.0 Nm

* When the same bit is used.

All in one!

- Easily adapts for use in automatic machines

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



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. • Connection Cord(DLW9075): 1 pc. • Suspension Bail: 1 pc. • 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. • Connection Cord(DLW9075): 1 pc. • Suspension Bail: 1 pc. 					

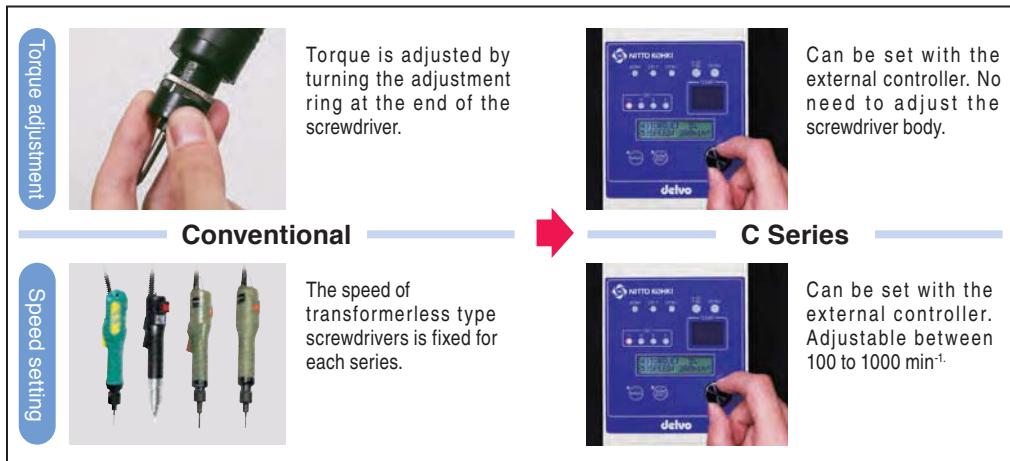
Please contact us for 4 mm bit type ("M" Bit) of CE/UL models.

Model	DCC0101X-AZ	P*
Input Voltage	100 - 240 V AC, 50/60Hz	
Operation Channel	Torque and speed setting in 4-channel memory	
Function	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")

Comparison of Adjustment Method with Conventional Model



SOFT / HARD Fastening Settings

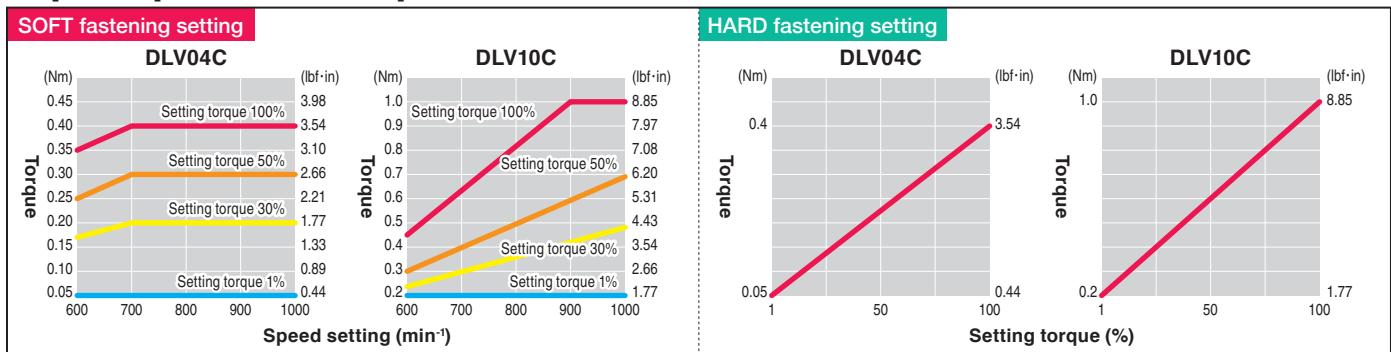
Two types of fastening mode available subject to the workpiece.

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)	
4	Channel B	• Valid only when "operation channel switching method" (No.1 CH-CHG) is set to "INPUT"	
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	Input
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	
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	Output
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

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

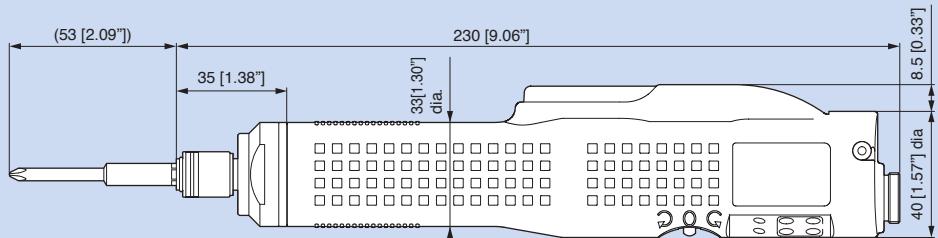
Flanged coupling
(for automatic machine)
DLW9015



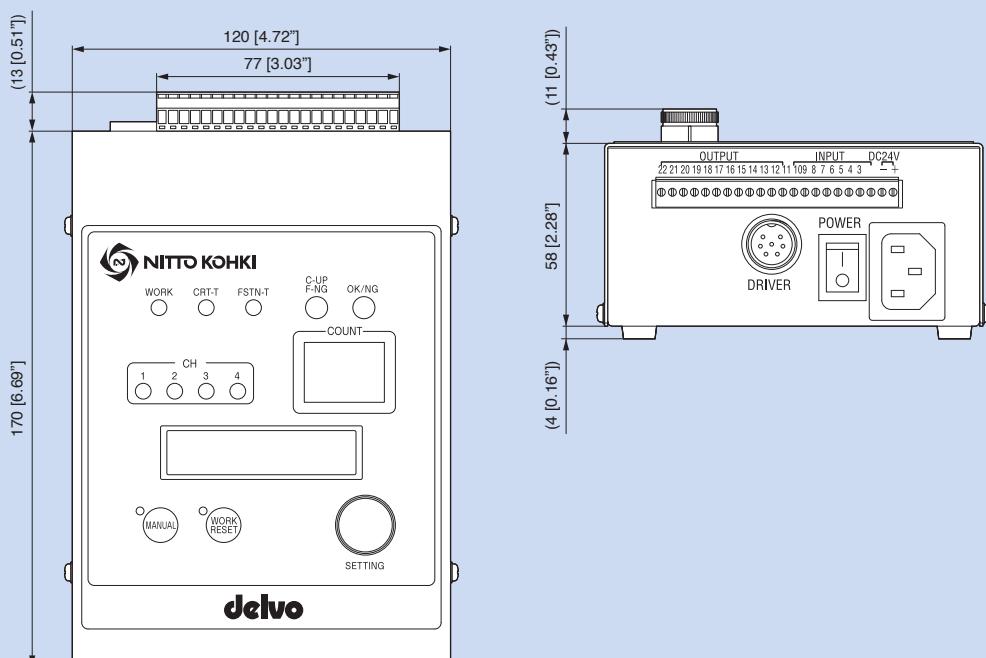
* Please see page 39 for details.

External Dimensions

•DLV04C/10C ("K" Bit Type)



•DCC0101X-AZ



unit: mm [inch]

Low Voltage (DC)		
Brush motor	Brushless motor	
Miniature screw	Precision screw	Machine screw
2.6 - 8.0 mm		



delvo Brushless Type

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



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

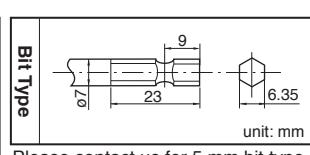


Part Names of the Remote Controller



Specifications

Model	Bit	Low Speed	Standard	High Speed	Low Speed	Standard	Low Speed
	Lever Start	DLV30S06L-AY	K	DLV30S12L-AY	K	DLV30S20L-AY	K
	Push to Start	DLV30S06P-AY	K	DLV30S12P-AY	K	DLV30S20P-AY	K
Power Source							
		DEA0151N-AZ or DEA0241N-AZ		DEA0241N-AZ	DEA0151N-AZ or DEA0241N-AZ		DEA0241N-AZ
Torque Adjustment							
Torque	Low Torque Spring ^{*1}	0.4 - 1.6 [3.5 - 14.2] (Nm [lbf-in])			2.0 - 4.5 [17.7 - 39.8]		3.8 - 7.0
	High Torque Spring ^{*2}	1.2 - 3.0 [10.6 - 26.6]					[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)							
Machine Screw		2.6 - 5.0					
Tapping Screw		4.0 - 6.0					
		2.5 - 4.0					
Mass (g [lbs])							
		710 [1.57]					
Standard Accessories^{*3}							
		• Bit NK35(No.2 x 7 x 75): 1 pc. • Low Torque Spring: 1 pc. • Suspension Bail: 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.

Setting Range of Speed and Torque (for reference only)

	DLV30S06	DLV45S06	DLV70S06
Speed Level	Speed (min ⁻¹)	Torque (Nm [lbf-in])	
Lv1	160	0.4 - 1.3 [3.5 - 11.5]	-
Lv2	220	0.4 - 2.0 [3.5 - 17.7]	2.0 - 2.4 [17.7 - 21.2]
Lv3	280	0.4 - 2.7 [3.5 - 23.9]	2.0 - 3.5 [17.7 - 30.9]
Lv4	340	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]
Lv5	410	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]
Lv6	470	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]
Lv7	530	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]
Lv8	590	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]
Lv9	650	0.4 - 3.0 [3.5 - 26.6]	2.0 - 4.5 [17.7 - 39.8]

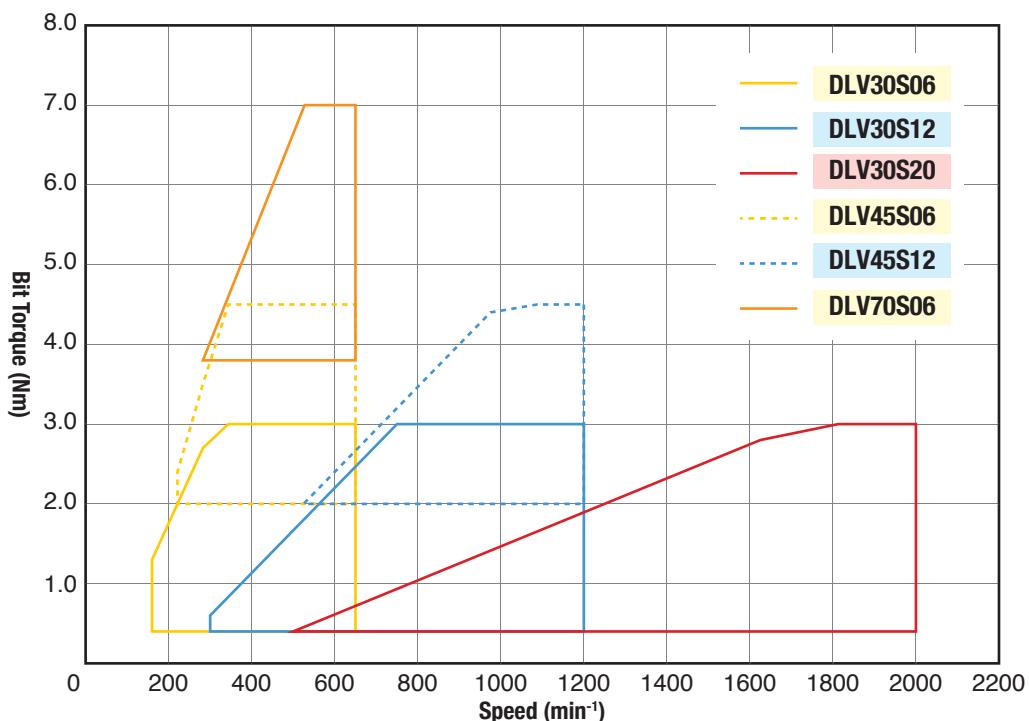
	DLV30S12	DLV45S12
Speed Level	Speed (min ⁻¹)	Torque (Nm [lbf-in])
Lv1	300	0.4 - 0.6 [3.5 - 5.3]
Lv2	420	0.4 - 1.2 [3.5 - 10.6]
Lv3	530	0.4 - 1.8 [3.5 - 15.9]
Lv4	640	0.4 - 2.4 [3.5 - 21.2]
Lv5	750	0.4 - 3.0 [3.5 - 26.6]
Lv6	860	0.4 - 3.0 [3.5 - 26.6]
Lv7	980	0.4 - 3.0 [3.5 - 26.6]
Lv8	1,090	0.4 - 3.0 [3.5 - 26.6]
Lv9	1,200	0.4 - 3.0 [3.5 - 26.6]

	DLV30S20	
Speed Level	Speed (min ⁻¹)	Torque (Nm [lbf-in])
Lv1	500	0.4 [3.5]
Lv2	690	0.4 - 0.8 [3.5 - 7.0]
Lv3	880	0.4 - 1.2 [3.5 - 10.6]
Lv4	1,060	0.4 - 1.6 [3.5 - 14.1]
Lv5	1,250	0.4 - 2.0 [3.5 - 17.7]
Lv6	1,440	0.4 - 2.4 [3.5 - 21.2]
Lv7	1,630	0.4 - 2.8 [3.5 - 24.7]
Lv8	1,810	0.4 - 3.0 [3.5 - 26.6]
Lv9	2,000	0.4 - 3.0 [3.5 - 26.6]

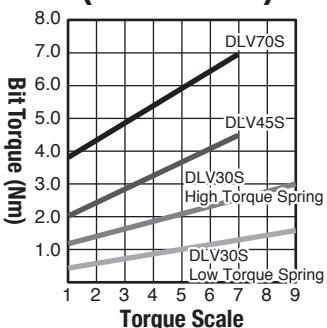
*Speed and torque are for reference only. The actual values depend on the materials to be fastened and size of screws. The values are not guaranteed.

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.



**Torque Diagrams
(for reference)**



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

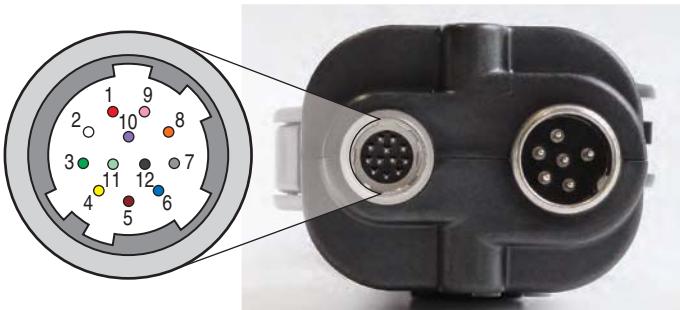
Equipped with the External Signal Connector

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.



Optional Accessories

Power Supply

DEA0151N-AZ



DEA0241N-AZ



Grounded 3-Prong Power Cord

DLW9220



North America

DLW9240



Europe

DLW9250



UK

Remote Controller

RC1000



• Power cord is not included

Signal Cable Ass'y



Connection Cord



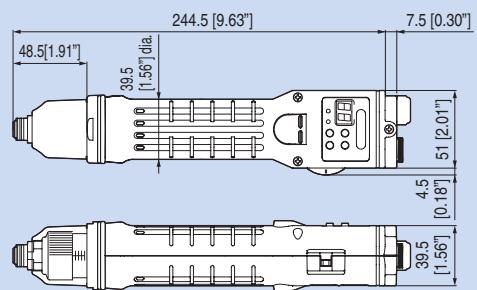
Relay Cord (To connect DLW9073 and DLW9073)



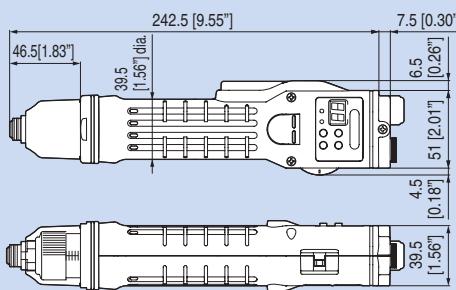
Standard accessory of screwdrivers

External Dimensions

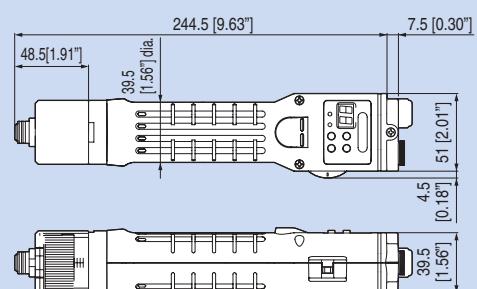
•DLV30S□P



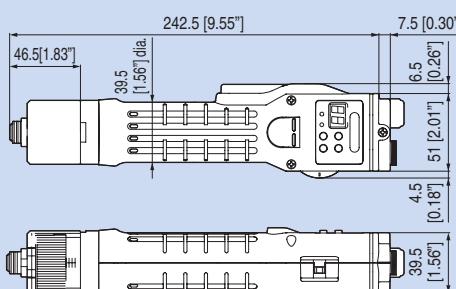
•DLV30S□L



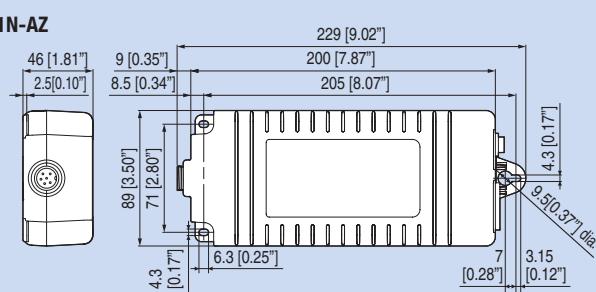
•DLV45S□P



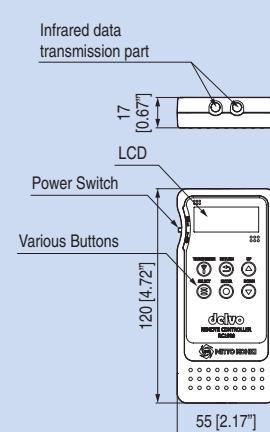
•DLV45S□L



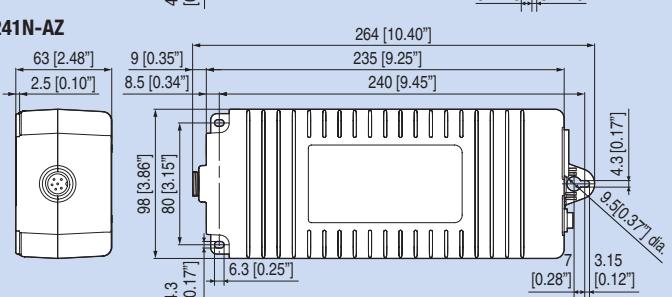
•DEA0151N-AZ



•RC1000

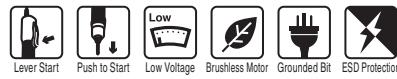


•DEA0241N-AZ



unit: mm [inch]

Low Voltage (DC)
Brush motor
Precision screw
Machine screw



2.6 - 8.0 mm



delvo Brushless Type

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

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

Electric Screwdriver	Model	Bit	Low Speed		Standard		High Speed		Low Speed		Standard		Low Speed									
			Lever Start	DLV30A06L-AY	K	DLV30A12L-AY	K	DLV30A20L-AY	K	DLV45A06L-AY	K	DLV45A12L-AY	K	DLV70A06L-AY	K							
		Push to Start		DLV30A06P-AY	K	DLV30A12P-AY	K	DLV30A20P-AY	K	DLV45A06P-AY	K	DLV45A12P-AY	K	DLV70A06P-AY	K							
	Power Source			DEA0151N-AZ or DEA0241N-AZ				DEA0241N-AZ				DEA0241N-AZ										
	Torque Adjustment			Stepless																		
	Torque	Low Torque Spring ^{*1} (Nm [lbf·in])	0.4 - 1.6 [3.5 - 14.2]								2.0 - 4.5 [17.7 - 39.8]				3.8 - 7.0 [33.6 - 62.0]							
	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							
	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			<ul style="list-style-type: none"> • Bit NK35(No.2 x 7 x 75): 1 pc. • Suspension Bail: 1 pc. • Connection Cord (DLW9073): 1 pc. 				<ul style="list-style-type: none"> • Bit NK35(No.2 x 7 x 75): 1 pc. • Connection Cord (DLW9073): 1 pc. • Suspension Bail: 1 pc. • Pistol Grip (DLW2300ESD): 1 pc. 														
Power Supply	Model	DEA0151N-AZ	DEA0241N-AZ				*1: Standard Accessory *2: Installed															
	Input	100 - 240 V AC, 50/60 Hz																				
	Output	40 V DC																				
	Maximum Rated Power (W)	150	240																			
	Mass (kg)	0.56	0.9																			

*The power cord is sold separately.

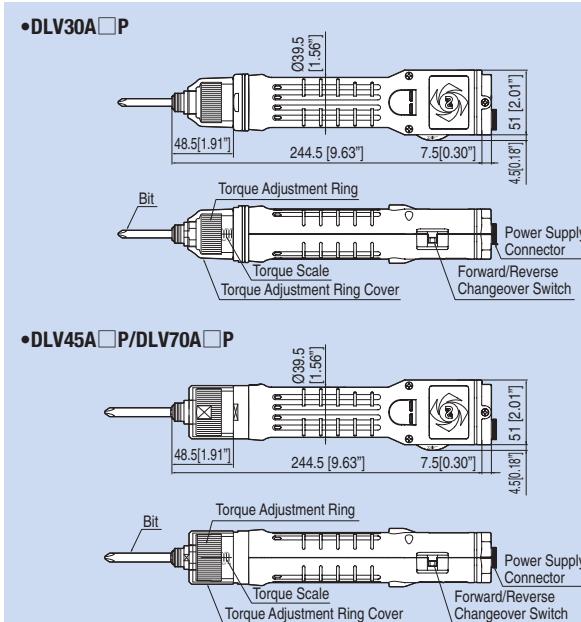
Ask us for the required power cord when ordering.

Please contact us for 5 mm bit type.

Optional Accessories

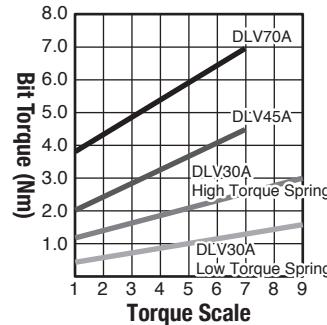


External Dimensions



unit: mm [inch]

Torque Diagrams (for reference)



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

Transformerless (AC)	
Brush motor	Brushless motor
Miniature screw	Precision screw
Machine screw	



2.6 - 8.0 mm



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

Model	Bit	Low Speed		Standard		High Speed		Low Speed		Standard		Low Speed																
		Lever Start	DLV30A06L-AB K	Push to Start	DLV30A06P-AB K	DLV30A12L-AB K	DLV30A20L-AB K	DLV45A06L-AB K	DLV45A12L-AB K	DLV70A06L-AB K	DLV45A12P-AB K	DLV70A06P-AB K																
Input Voltage																												
230 V AC, 50/60 Hz																												
Torque Adjustment																												
Stepless																												
Torque	(N·m [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)	Approx. 45																										
Screw Size	Machine Screw (mm)	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 x 7 x 75): 1 pc. • Suspension Bail: 1 pc. • Low Torque Spring: 1 pc. • Bit NK35(No.2 x 7 x 75): 1 pc. • Suspension Bail: 1 pc. • Pistol Grip (DLW2300)																											
Bit Type	• 9 mm Bit (unit: mm) • Europe Plug Shape • Bit NK35(No.2 x 7 x 75): 1 pc. • Suspension Bail: 1 pc. • Low Torque Spring: 1 pc. • Bit NK35(No.2 x 7 x 75): 1 pc. • Suspension Bail: 1 pc. • Pistol Grip (DLW2300)																											

*1: Standard Accessory

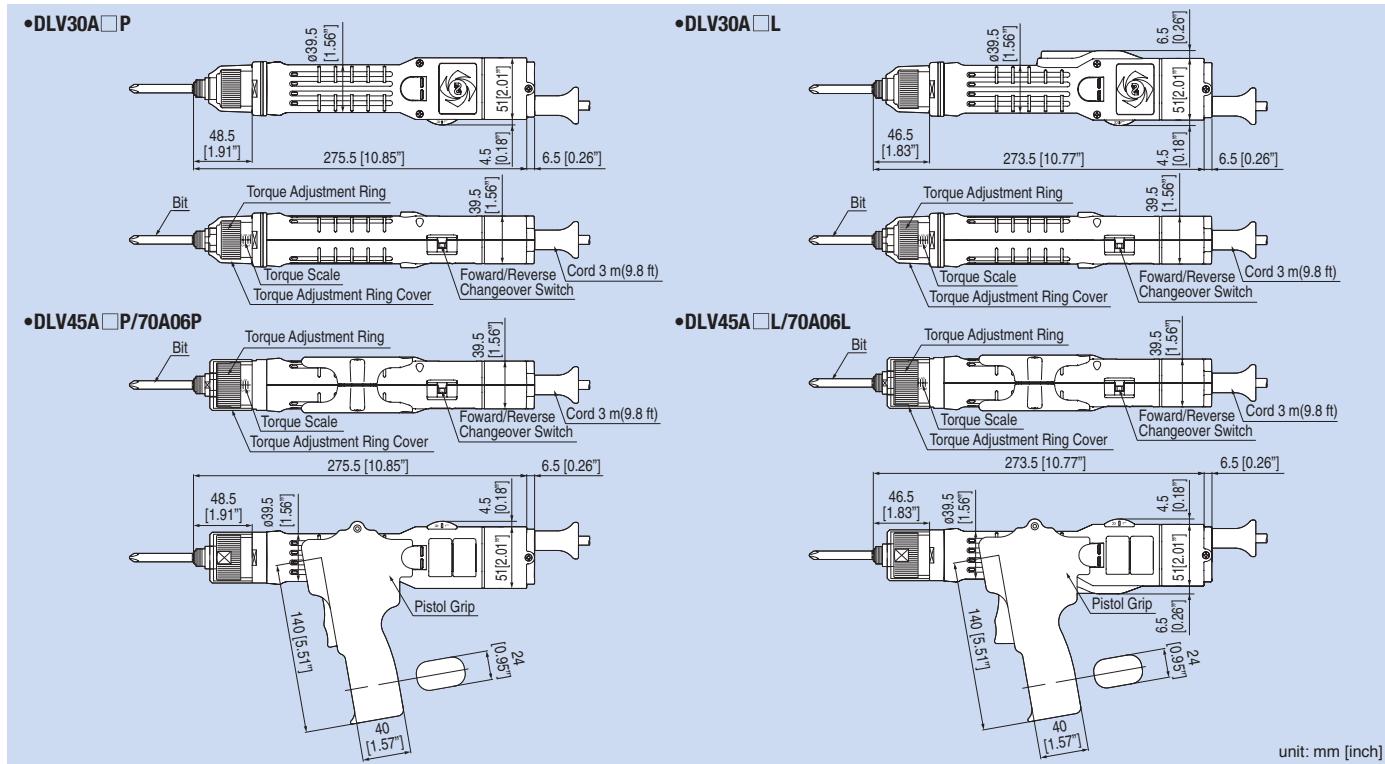
*2: Installed

Please contact us for 5 mm bit type.

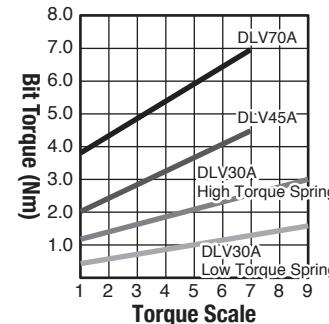
Optional Accessories



External Dimensions



Torque Diagrams (for reference)



Low Voltage (DC)
Brush motor
Precision screw
Machine screw



BKE Models
ESD Protection

DLV02/12/16 Series



Features

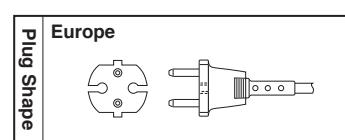
Brushless motors are incorporated for maximum tool life

- 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)

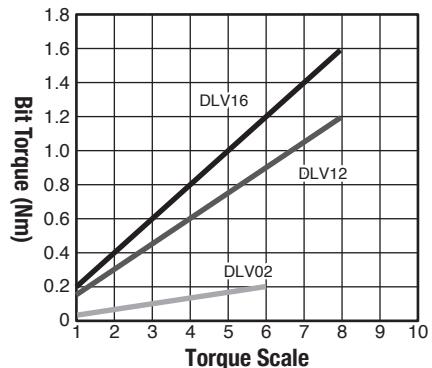
Specifications

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 (mm)	Machine Screw	1.0 - 2.2	1.4 - 3.0	2.2 - 4.0	
	Tapping Screw	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]



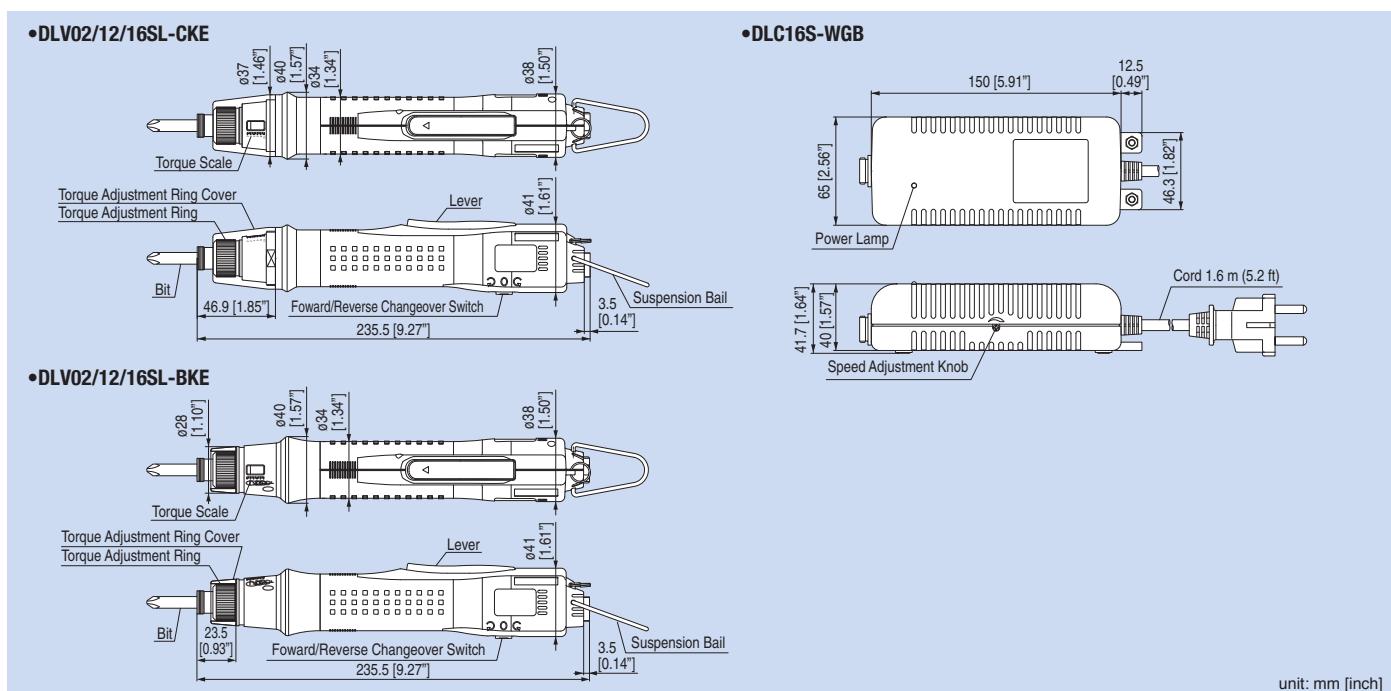
Torque Diagrams (for reference)



Standard Accessories

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

External Dimensions



unit: mm [inch]

Low Voltage (DC)
Brush motor
Precision screw
Machine screw



Clean room adaption
DLV7419A
DLV7419HA
DLV7429A

delvo

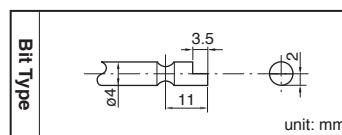
1.0 - 2.6 mm



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



unit: mm

Specifications

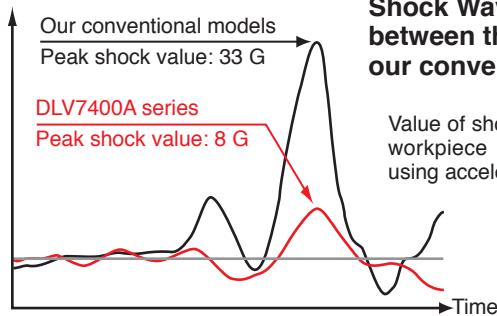
Electric Screwdriver	Model	Standard Type	DLV7410A-BME	DLV7410HA-BME	DLV7420A-BME
	Clean Room Type	DLV7419A-BME	DLV7419HA-BME	DLV7429A-BME	
Starting Method					Lever Start
Input Voltage					40 V DC
Torque Adjustment					Stepless
Torque (Nm [lbf·in])					0.02 - 0.2 [0.2 - 1.8]
Free Speed (min⁻¹)					500 - 750
Power Consumption (W)					Approx. 10
Screw Size (mm)	Machine Screw		1.0 - 2.3	1.6 - 2.6	
	Tapping Screw		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	*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

Value of shock applied to the workpiece as measured using acceleration pickup.

Optional Accessories



* Please see page 39 for details.

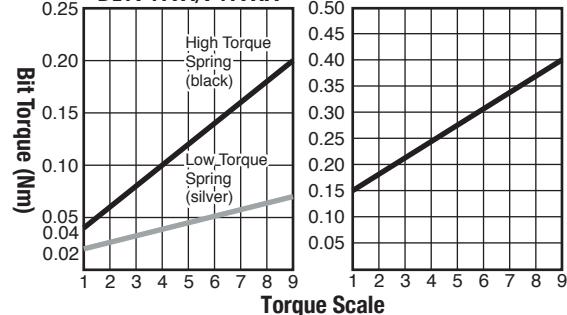
Torque Diagrams (for reference)

DLV7410A/7410HA

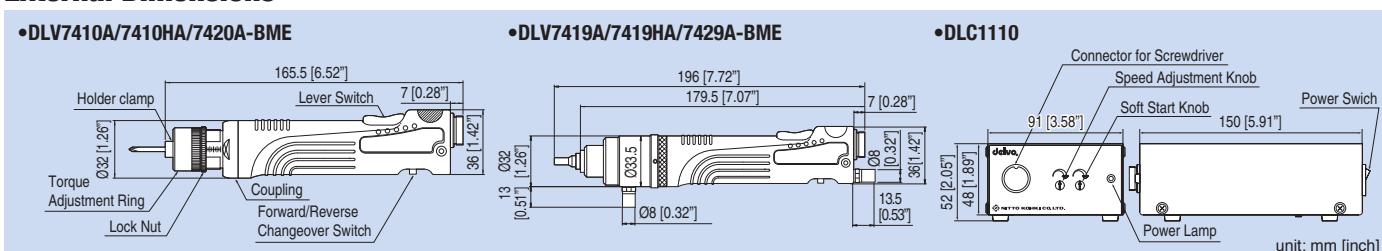
DLV7419A/7419HA

DLV7420A

DLV7429A



External Dimensions



Low Voltage (DC)
Brush motor
Brushless motor
Miniature screw
Precision screw
Machine screw
1.0 - 3.0 mm



delvo

DLV5700 Series Non-CE

DLV5720/5720H/5740



DLV5740H/5750



Features

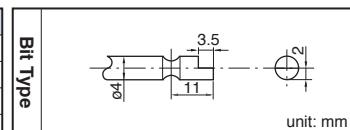
For quality improvement and productivity enhancement

- 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 x 1.8 x 44): 1 pc. Bit NK4D(No.0 x 2.5 x 44): 1 pc. Connection Cord (1.5 m)DLW9081: 1 pc. Suspension Bail: 1 pc. Low Torque Spring: 1 pc. 				

Controller	DLC0350E	DLC0350F	DLC0350G	DLC0950E	DLC0950G
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		
Mass (g [lbs])	900 [1.98]			1800 [3.97]	



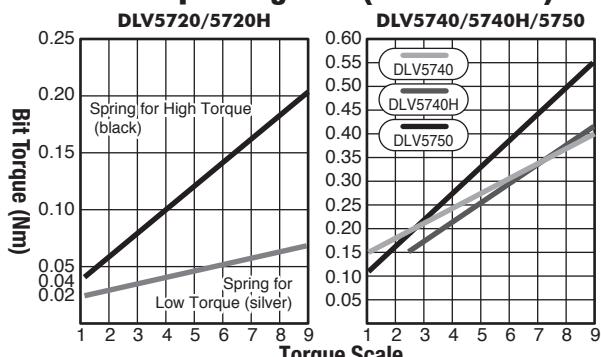
Optional Accessories



* Please see page 39 for details.

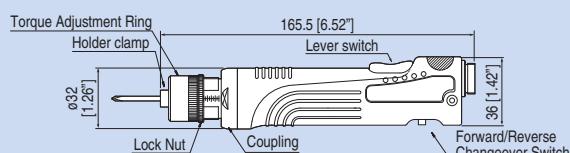
This minimizes tampering or accidental turning of the torque adjustment ring once the torque is set.

Torque Diagrams (for reference)

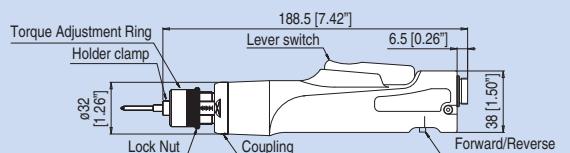


External Dimensions

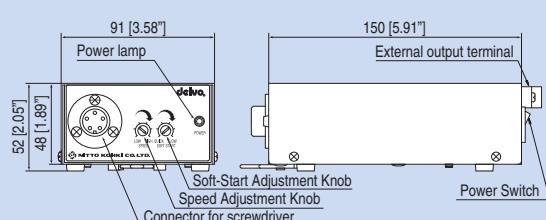
•DLV5720/5720H/5740



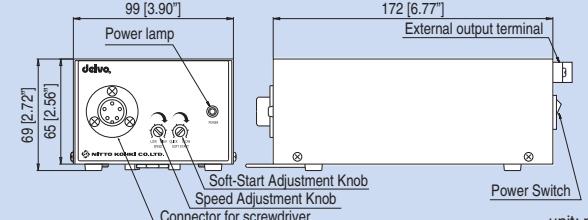
•DLV5740H/5750



•DLC0350

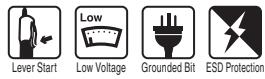


•DLC0950



unit: mm [inch]

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



delvo

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		1.6 - 2.6
	Tapping Screw 1.0 - 2.0		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 x 1.8 x 44): 1 pc. • Bit NK4D(No.0 x 2.5 x 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 x 2.5 x 44): 1 pc. • Bit NK4D(No.1 x 4 x 44): 1 pc. • Suspension Bail: 1 pc. • Connection Cord (1.5 m) DLW9081: 1 pc. 	
Bit Type	 unit: mm		

Controller	Model	DLCO250E
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

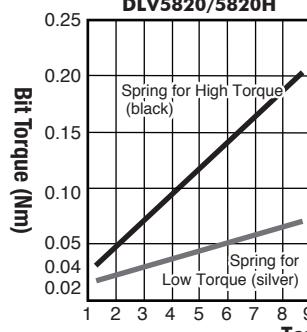


This minimizes tampering or accidental turning of the torque adjustment ring once the torque is set.

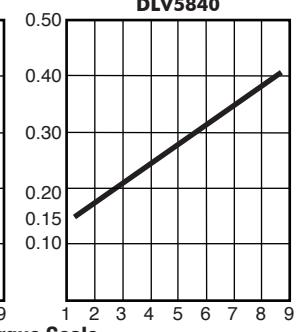
* Please see page 39 for details.

Torque Diagrams (for reference)

DLV5820/5820H

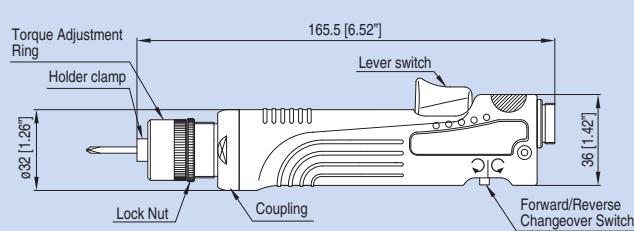


DLV5840

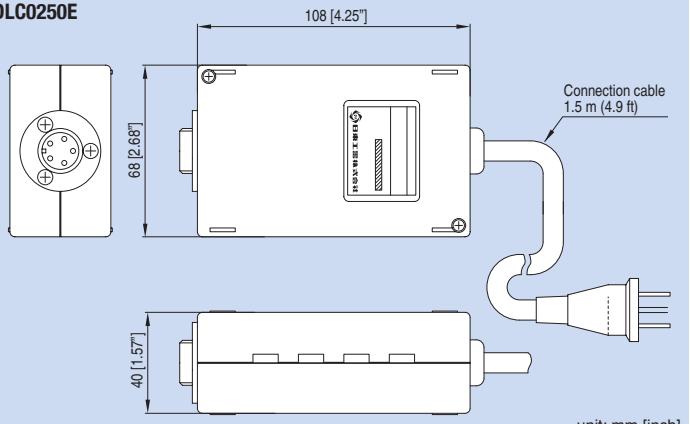


External Dimensions

• DLV5820/5820H/5840

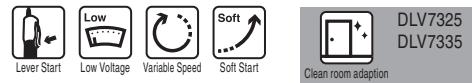


• DLC0250E



Low Voltage (DC)	
Brush motor	Brushless motor
Miniature screw	Precision screw
Machine screw	

1.0 - 3.5 mm



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 5*1 Clean Room standards

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

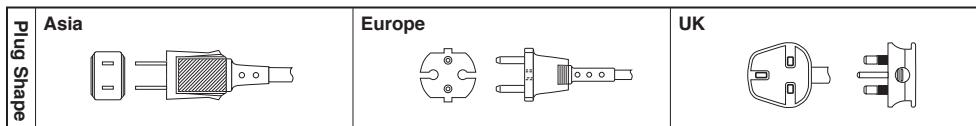
Specifications

Electric Screwdriver	Model	Standard			Clean Room Use	
		DLV7313-CME	DLV7323-CME	DLV7333-CME	DLV7325-CME*2	DLV7335-CME*2
	Bit Shank: Ø4 mm					
	Bit Shank: Hex. 6.35 mm					
	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]	0.3 - 1.2 [2.7 - 10.6]
	Free Speed (min⁻¹)	700 - 1000				
	Power Consumption (W)	Approx. 35				
	Screw Size (mm)	Machine Screw	Up to 2.0	1.0 - 3.0	2.0 - 3.5	1.0 - 3.0
		Tapping Screw	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	Soft start, Speed control	Asia	2300 [5.07]
	DLC1213A-FE*3	Standard	115 V AC, 50/60 Hz		UK	
	DLC1213A-GE	Standard	220 V AC, 50/60 Hz		Europe	
	DLC1213A-GG	With CE Mark	230 V AC, 50/60 Hz		UK	
	DLC1213A-GGU	With CE Mark	230 V AC, 50/60 Hz		Without Plug	
	DLC1213A-HE	Standard	240 V AC, 50/60 Hz			

*3: This model is made to order.

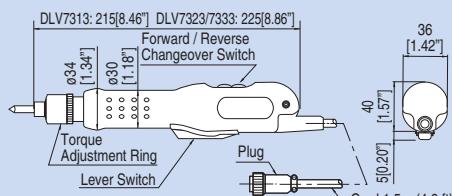


Standard Accessories

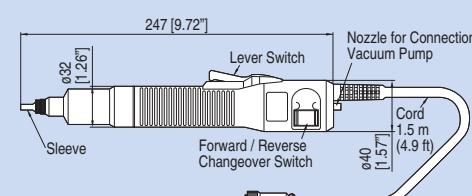
Model	DLV7313-CME	DLV7323-CME	DLV7333-CME	DLV7323 / 31 / 33-CKE	DLV7325-CME	DLV7335-CME	DLV7325 / 35-CKE
Bit	NK4D No.0 x 1.8 x 44	1	-	-	-	-	-
	NK4D No.0 x 2.5 x 44	1	1	-	-	1	-
	NK4D No.1 x 3 x 44	-	-	1	-	-	1
	NK4D No.1 x 4 x 44	-	1	-	-	1	-
	NK35 No.1 x 7 x 50	-	-	-	1	-	-
	NK4D No.2 x 4 x 44	-	-	1	-	-	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

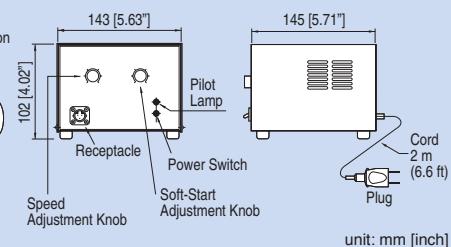
•DLV7313/7323/7333



•DLV7325/7335



•DLC1213A



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

Torque Adjustment Ring Cover
for DLV7303 DLW5500 (TD00333)

Low Voltage (DC)
Brush motor
Brushless motor
Miniature screw
Precision screw
Machine screw
1.0 - 3.5 mm



DLV7319-BME DLV7339-BME
DLV7329-BME DLV7349-BME

delvo

DLV7300-BME/BKE Series



Features

Workpiece-conscious electric screwdrivers

- Statistic 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	
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	700 - 1000	500 - 700			
Power Consumption (W)				Approx. 35					
Screw Size (mm)	Machine Screw	1.0 - 3.0	2.0 - 3.5	2.0 - 3.0	2.0 - 3.0	3.0 - 3.5			
	Tapping Screw	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]				
Bit Type (mm)	For BME		For BKE		*2: These models are made to order.				

*3: This model is made to order.

Measurement Point		Conventional Product	DLV7300-B□E
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)	110	5
Power Cable	Static Electricity (V)		
	Surface Resistance (Ω)	more than 10 ¹³	10 ¹⁰

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

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

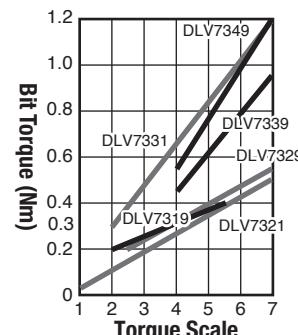
(1) Static electricity • Earth the measurement equipment and measuring person.
• Grip the screwdriver five times using Ansel Edmont electronic control glove.
• Turn on the switch of the screwdriver. • Measure each part of the screwdriver using electronic measurement equipment manufactured by Shishido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

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

Standard Accessories

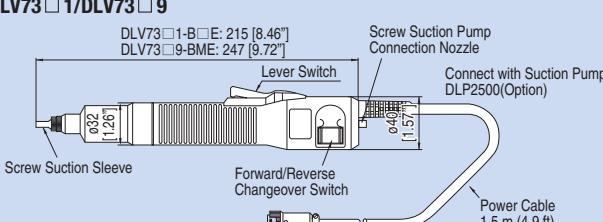
Model	DLV7319/29-BME	DLV7339/49-BME	DLV7321-BME	DLV7331-BME	DLV7321/31-BKE
Bit	NK4D No.0 x 2.5 x 44	1	-	1	-
	NK4D No.1 x 3 x 44	-	1	-	1
	NK4D No.1 x 4 x 44	1	-	1	-
	NK35 No.1 x 7 x 50	-	-	-	1
	NK4D No.2 x 4 x 44	-	1	-	1
	NK35 No.2 x 7 x 50	-	-	-	1
Vacuum Sleeve	DLS2124	1	-	-	-
	DLS2127	1	1	-	-
	DLS2130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

Torque Diagrams (for reference)

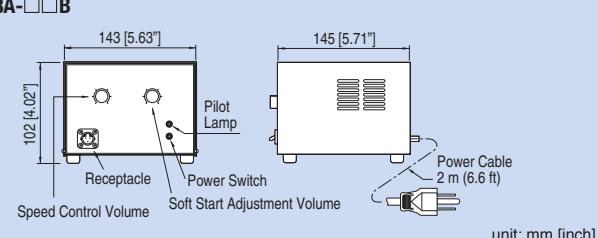


External Dimensions

•DLV73□1/DLV73□9



•DLC1213A-□□B



unit: mm [inch]

Low Voltage (DC)
Brush motor
Brushless motor
Miniature screw
Precision screw
Machine screw
2.6 - 6.0 mm



BKE Models
ESD Protection

delvo

DLV7500/8500 Series



Features

Low vibration, low noise, and easy gripping in a compact design

- The easily visible torque reach light goes on when the set torque is reached
- The combination of an advanced clutch design and the auto-stop circuit assures torque accuracy
- The long life motor with a yoke made of advanced materials further assures a long service life
- Compliant with CE standard
- ESD (electrostatic discharge) protection structure (DLV7500/8500-BKE)

Specifications

Electric Screwdriver	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					Push to 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			
Screw Size (mm)	Machine Screw	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	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										

	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)	110	5
Connection Cable	Surface Resistance (Ω)	more than 10 ¹³	10 ¹⁰

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.

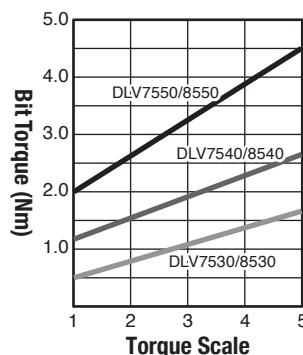
- Grip the screwdriver five times using Ansel Edmont electronic control glove.
- Turn on the switch of the screwdriver. • Measure each part of the screwdriver using electronic measurement equipment manufactured by Shishido electrostatic Ltd.

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

Standard Accessories

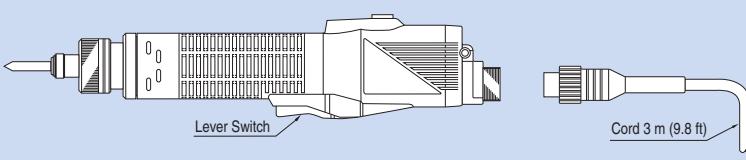
Model	DLV7530 / 7540 / 8530 / 8540	DLV7550 / 8550-MKE	DLV7550 / 8550-BKE
Bit NK35	No.1 x 7 x 75	1	-
	No.2 x 7 x 75	1	1
	No.3 x 7 x 50	-	1
Pistol Grip	DLW2300	-	1
	DLW2300ESD	-	-
Spare Carbon Brush		2	
Connection Cord		1	
Suspension Bail		1	

Torque Diagrams (for reference)

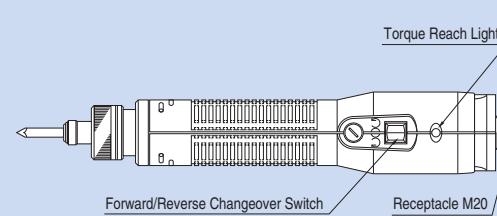
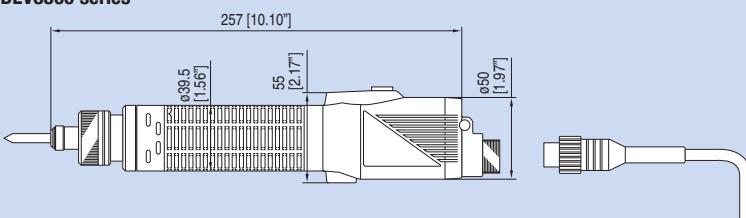


External Dimensions

•DLV7500 series



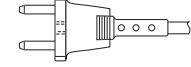
•DLV8500 series



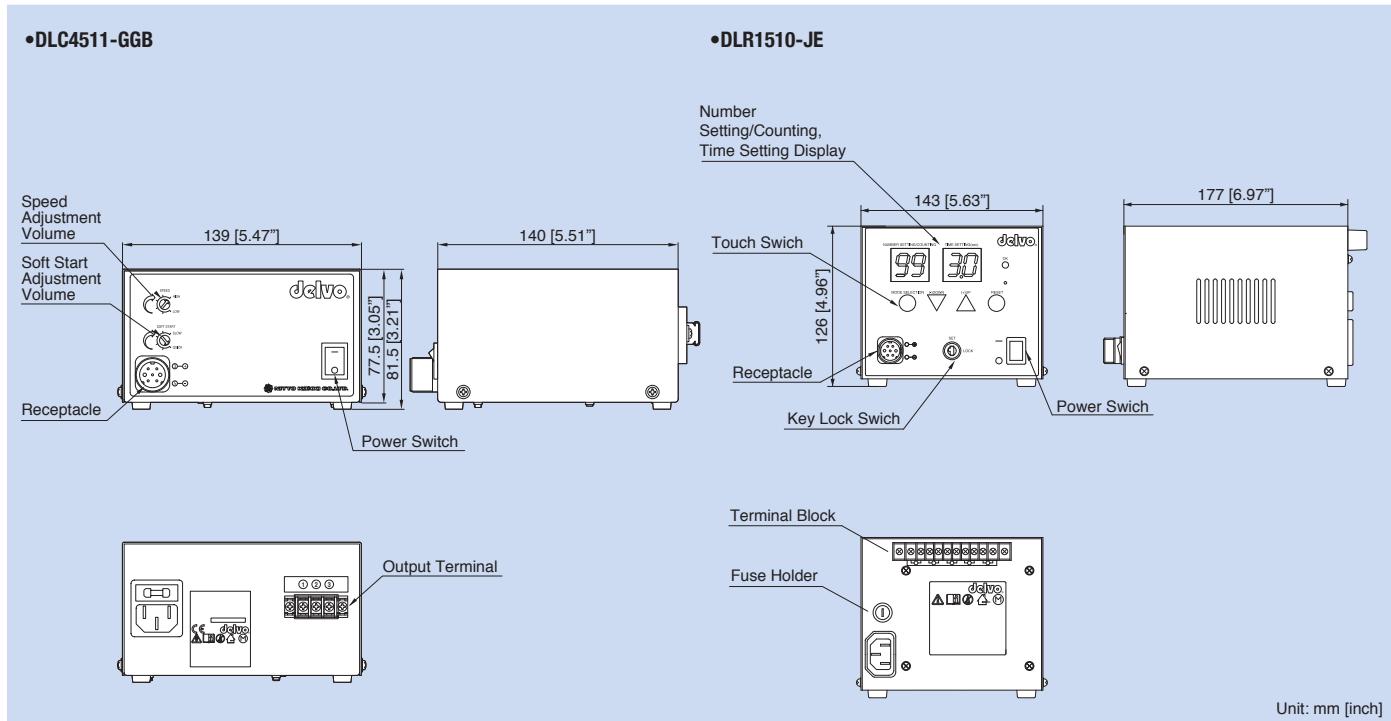
unit: mm [inch]



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
Input Voltage	230 V AC, 50/60 Hz	
Mass (g [lbs])	3500 [7.72]	5100 [11.24]
Plug Shape	Europe	 

External Dimensions



MEMO

Transformerless (AC)	
Brush motor	Brushless motor
Miniature screw	Precision screw
Machine screw	

1.0 - 3.5 mm



DLV7000/8000 Series Non-CE



Features

100 / 115 V AC Direct Transformerless Precision Miniature Screw Type

- A built-in controller model saves space and facilitates layout change
- High repetitive torque accuracy
- Available with lever type (DLV7000 series) for each screw alignment and push to start type (DLV8000 series) for rapid screw tightening
- The high-speed type (DLV7031/8031) available at 1200 min⁻¹ for improving work efficiency (100 V AC only)

Specifications

Electric Screwdriver	Model	Standard				High Speed		
		100 V AC Input	DLV7020-EMN	DLV7030-EMN	DLV8020-EMN	DLV8030-EMN	DLV7031-EMN	
		115 V AC Input	DLV7020-FME*1	DLV7030-FME*1	DLV8020-FME*1	DLV8030-FME*1	DLV8031-EMN	
Starting Method		Lever Start		Push to Start		Lever Start	Push to Start	
Torque Adjustment		Stepless						
Torque (Nm [lbf-in])		0.05 - 0.55 [0.4 - 4.9]	0.3 - 1.1 [2.7 - 9.7]	0.1 - 0.55 [0.9 - 4.9]	0.3 - 1.1 [2.7 - 8.9]	0.3 - 1.0 [2.7 - 8.9]		
Free Speed (min ⁻¹)		900	650	900	650	1200		
Power Consumption (W)		Approx. 25				Approx. 30		
Screw Size (mm)	Machine Screw	1.0 - 3.0	2.0 - 3.5	1.0 - 3.0	2.0 - 3.5	2.0 - 3.0		
	Tapping Screw	1.2 - 2.6	2.0 - 3.0	1.2 - 2.6	2.0 - 3.0	2.0 - 3.0		
Mass (g [lbs])		400 [0.88]		410 [0.90]		400 [0.88]	410 [0.90]	
Bit Type			Plug Shape	Asia	*1: These models are made to order.			
unit: mm								

Standard Accessories

Model	DLV7020 / 8020	DLV7030 / 8030 / 7031 / 8031
Bit NK4D	No.0 × 2.5 × 44	1
	No.1 × 3 × 44	-
	No.1 × 4 × 44	1
	No.2 × 4 × 44	-
Suspension Bail		1

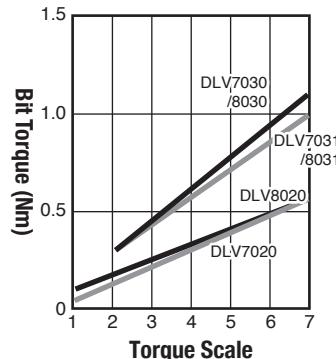
Optional Accessories



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

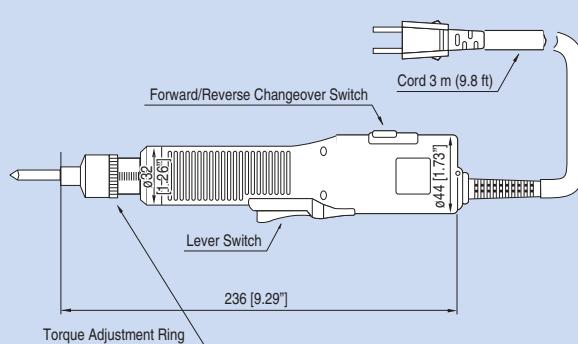
Torque Adjustment Ring Cover
DLW5300 (TD00332)

Torque Diagrams (for reference)

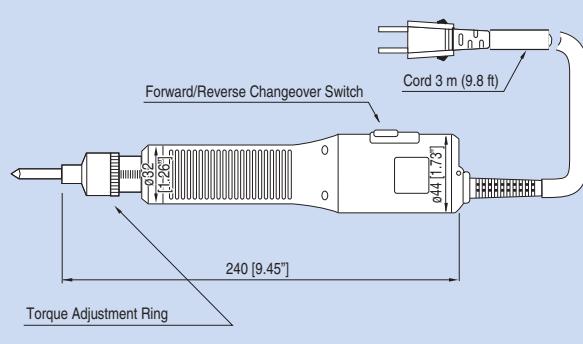


External Dimensions

•DLV7020/7030/7031



•DLV8020/8030/8031



unit: mm [inch]

Transformerless (AC)



115V

Brush motor Brushless motor

Miniature screw

Precision screw

Machine screw

2.6 - 6.0 mm

DLV7100/7200 series



DLV7251



DLV8100/8200 series



DLV8150/8251



Features

Long Time Selling, Reliable, and High Performance

- Transformerless space saving model built in automatic stop circuit
- Combination of unique clutch mechanism and automatic stop circuit maintains high repetitive torque accuracy
- The lever start type DLV7100 / 7200 series is suited for temporarily tightening screws and tightening screws set at angles
- The DLV8100 / 8200 series is push to start type for continuous screw tightening
- The high speed type DLV7200 / 8200 series enhances working efficiency
- The high torque type DLV7251 / 8150 / 8251 series is equipped with a grip, which is useful for tightening big screws like 6 mm machine screws

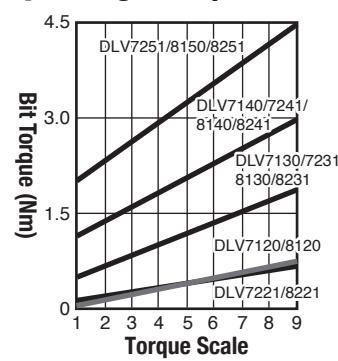
Specifications

Electric Screwdriver Model	Standard			High Speed			High Torque			Standard			High Torque			High Speed			High Torque		
	DLV7120-FJE	DLV7130-FJE	DLV7140-FJE	DLV7221-FJE	DLV7231-FJE	DLV7241-FJE	DLV8120-FJE	DLV8130-FJE	DLV8140-FJE	DLV8150-FJE	DLV8221-FKE	DLV8231-FKE	DLV8241-FKE	DLV8251-FKE							
Starting Method	Lever Start										Push to Start										
Input Voltage	115 V AC, 50/60 Hz																				
Torque Adjustment	Stepless																				
Torque (Nm)	0.35 - 0.70	0.5 - 1.7	1.2 - 3.0	0.35 - 0.70	0.5 - 1.7	1.2 - 3.0	2.0 - 4.5	0.35 - 0.70	0.5 - 1.7	1.2 - 3.0	2.0 - 4.5	0.35 - 0.70	0.5 - 1.7	1.2 - 3.0	2.0 - 4.5	0.35 - 0.70	0.5 - 1.7	1.2 - 3.0	2.0 - 4.5		
[lbf-in]	[3.10 - 6.20]	[4.4 - 15.1]	[10.6 - 26.6]	[3.10 - 6.20]	[4.4 - 15.1]	[10.6 - 26.6]	[17.7 - 39.8]	[3.10 - 6.20]	[4.4 - 15.1]	[10.6 - 26.6]	[17.7 - 39.8]	[3.10 - 6.20]	[4.4 - 15.1]	[10.6 - 26.6]	[17.7 - 39.8]	[3.10 - 6.20]	[4.4 - 15.1]	[10.6 - 26.6]	[17.7 - 39.8]		
Free Speed (min⁻¹)	900	900	600	1800	1800	1100	700	900	900	600	400	1800	1800	1100	700	900	900	600	400		
Power Consumption (W)	Approx. 35			Approx. 45			Approx. 35			Approx. 45											
Screw Size (mm)	Machine Screw 2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	4.5 - 6.0	2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	4.5 - 6.0	2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	4.5 - 6.0	2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	4.5 - 6.0		
Tapping Screw	2.6 - 3.0	2.3 - 3.5	3.5 - 4.0	2.6 - 3.0	2.3 - 3.5	3.0 - 4.0	4.5 - 5.0	2.6 - 3.0	2.3 - 3.5	3.5 - 4.0	4.5 - 5.0	2.6 - 3.0	2.3 - 3.5	3.0 - 4.0	4.0 - 5.0	2.6 - 3.0	2.3 - 3.5	3.0 - 4.0	4.0 - 5.0		
Mass (g [lbs])	700 [1.54]			890 [1.96]			690 [1.52]			890 [1.96]			690 [1.52]			890 [1.96]					
Bit Type (mm)	For FJE			For FKE			Asia														
	 14 19 24 5	 9 23 6.35		* All models of FJE / FKE series are made to order.																	

Standard Accessories

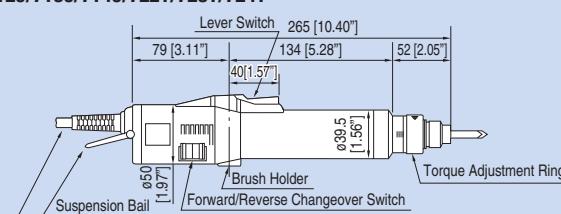
Model	FJE	FKE except DLV7251 / 8150 / 8251-FKE	DLV7251 / 8150 / 8251-FKE
Bit	1	-	-
NK31 No.2 x 6 x 70	1	-	-
NK31 No.1 x 7 x 75	-	1	-
NK35 No.2 x 7 x 75	-	1	1
NK35 No.3 x 7 x 50	-	-	1
Pistol Grip (DLW2300)	-	1	1
Spare Carbon Brush	2		
Connection Cord	1		
Suspension Bail	1		

Torque Diagrams (for reference)

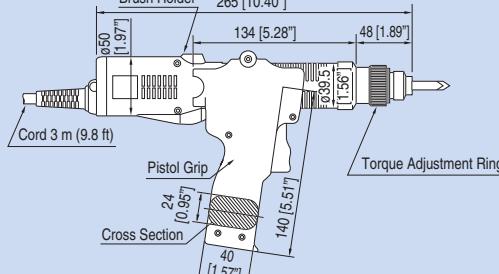


External Dimensions

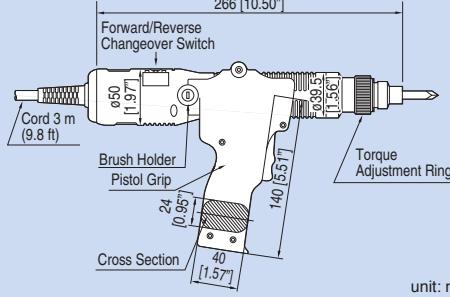
•DLV7120/7130/7140/7221/7231/7241



•DLV7251



•DLV8150/8251



unit: mm [inch]

Transformerless (AC)	
Brush motor	Brushless motor
Miniature screw	Precision screw
Machine screw	

2.6 - 6.0 mm



delvo

DLV7104/8104/8204 Series Non-CE



Features

The most popular models have been redesigned

- Equipped with bit grounding mechanism
- Long-life cam is utilized
- The clear plastic torque adjustment ring cover minimizes unintentional tampering of the preset torque
- The changeover switch enables operators to change forward/reverse rotation with a single hand
- The ergonomically designed grip can be held tightly to resist against tightening reaction force, resulting in reduced operator fatigue

Specifications

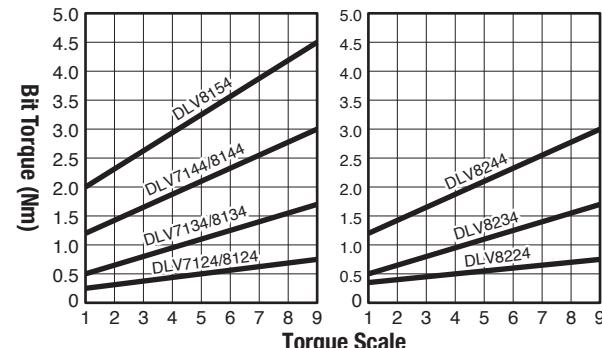
Electric Screwdriver	Model	Standard						High Torque	High Speed		
		Plug Shape: USA	DLV7124-MKE	DLV7134-MKE	DLV7144-MKE	DLV8124-MKE	DLV8134-MKE	DLV8144-MKE	DLV8154-MKE	DLV8224-MKE	DLV8234-MKE
	Starting Method	Lever Start						Push to Start			
	Input Voltage	230 V AC, 50/60 Hz									
	Torque Adjustment	Stepless									
	Torque (Nm) [lbf-in]	0.25 - 0.75 [2.2 - 6.6]	0.5 - 1.7 [4.4 - 15.1]	1.2 - 3.0 [10.6 - 26.6]	0.25 - 0.75 [2.2 - 6.6]	0.5 - 1.7 [4.4 - 15.1]	1.2 - 3.0 [10.6 - 26.6]	2.0 - 4.5 [17.7 - 39.8]	0.35 - 0.7 [3.1 - 6.2]	0.5 - 1.7 [4.4 - 15.1]	1.2 - 3.0 [10.6 - 26.6]
	Free Speed (min⁻¹)	900	600	900	600	400	2000	1800	1100		
	Power Consumption (W)	35						45			
	Screw Size (mm)	Machine Screw 2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	4.5 - 6.0	2.6 - 3.0	2.6 - 4.0	3.5 - 5.0
		Tapping Screw 2.3 - 3.0	2.3 - 3.5	3.0 - 4.0	2.3 - 3.0	2.3 - 3.5	3.0 - 4.0	4.5 - 5.0	2.3 - 3.0	2.3 - 3.5	3.0 - 4.0
	Mass (g [lbs])	720 [1.59]						710 [1.57]	910 [2.01]	710 [1.57]	
Bit Type	Plug Shape	 For MKE USA UK 									

Please contact us for 5 mm bit type.

Standard Accessories

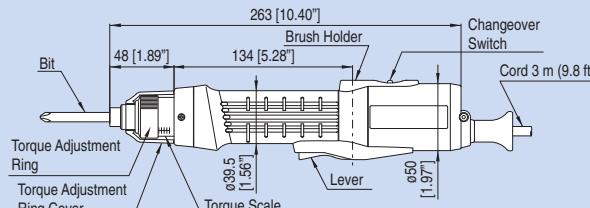
Model	MKE/MKH	8154-MKE/MKH
Bit NK35	No.1 x 7 x 75	1
	No.2 x 7 x 75	1
	No.3 x 7 x 50	-
Spare Carbon Brush		2
Suspension Bail		1

Torque Diagrams (for reference)

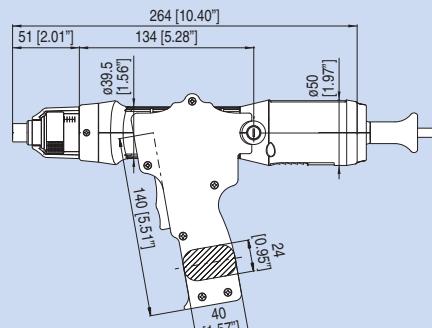


External Dimensions

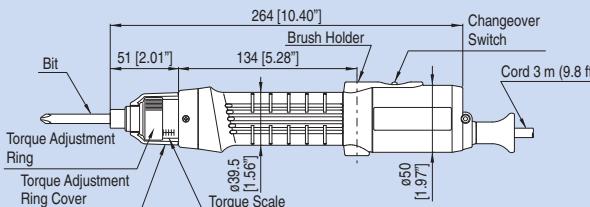
•DLV7124 / 7134 / 7144



•DLV8154



•DLV8124 / 8134 / 8144 / 8224 / 8234 / 8244



unit: mm [inch]

Screw Fastening Counter Series

Prevents human error with various functions. * Special models available on request

The error is detected based on the set tightening time.

Self adjustable timer function

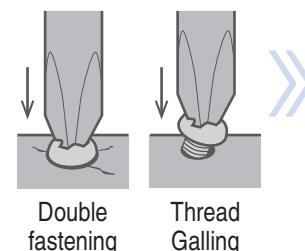
The optimum value of screw tightening time is set from the actual screw tightening.



The best time is X seconds per screw

Count Correction Function

Does not count when error is detected.



Human error prevention

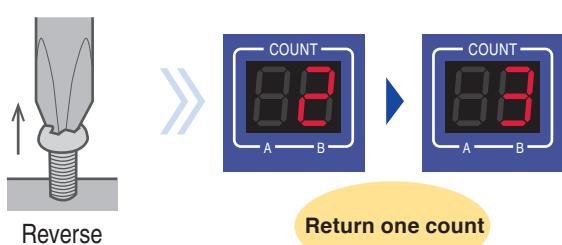
Link Connection Function

Multiple screwdrivers can be linked.
The other screwdrivers will be in standby state.



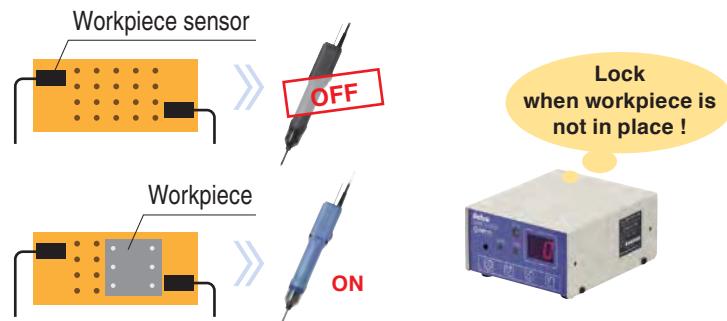
Count Return Function

The remaining number of screw tightening is returned when the rotation is reversed.



Driver Lock Function

Unnecessary screwdrivers are locked in conjunction with the workpiece sensor.



Screw Fastening Counter

DLR5640-WN

- Functions of the controller and counter are integrated into a single unit.
- Equipped with Linear Start Function that gradually increases the rotation speed at start.
- Universal power input for use anywhere in the world.



DLR5040A-WE

- Compact and lightweight model.
- A wide range of SPC screwdriver types are available.

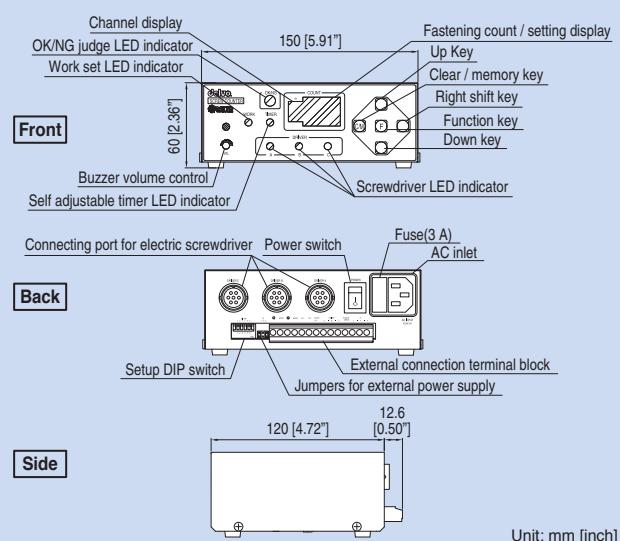
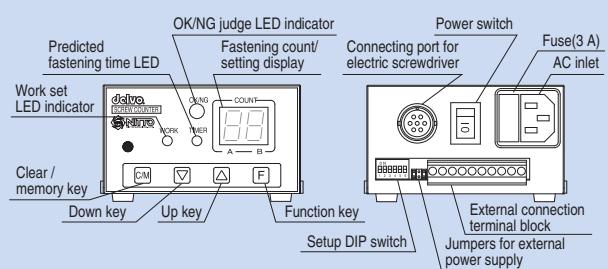
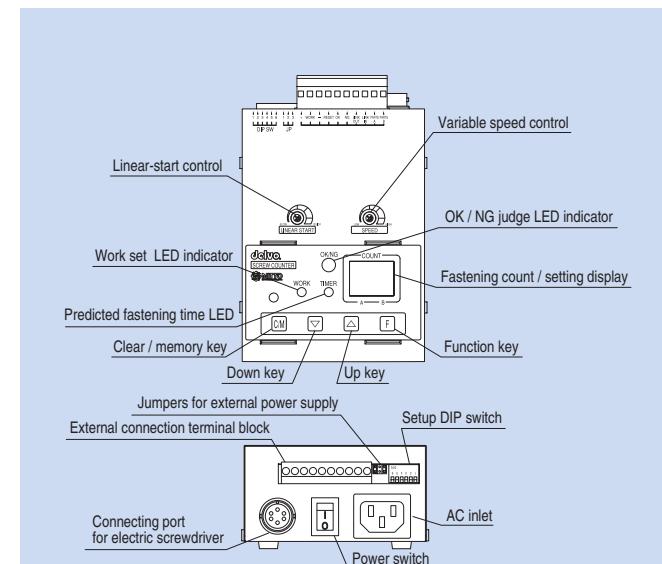


DLR5340-WE

- Three dedicated screwdrivers can be connected.
- Eight kinds of screw fastening conditions can be stored in internal memory.



Front and Rear Panels



Function List

	Self adjusting timer function	Count correct function	Link connection function	Count return function	Driver lock function	Number of connecting ports
DLR5640-WN	•	•	•	•	•	1
DLR5040A-WE	•	•	•	•	•	1
DLR5340-WE	•	•		•	•	3



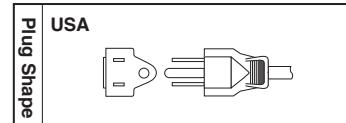
Features

The self-adjustable timer function automatically assesses the time required to complete fastening each screw and reflects it on the judging time setting

- Ideally suited for the assembly lines of vehicles and electrical equipment requiring reliable screw fastening
- The controller receives signals from electric screwdrivers to provide highly reliable screw fastening control
- Functions of the controller and counter are integrated into a single unit
- Count Return Function: When a screw is loosened, a reverse signal output from the electric screwdriver reverses the count by one
- The self-adjustable timer function automatically assesses the time required to complete tightening each screw and reflects it on the judging time setting
- The Count Correction Function does not count elevated screws or double fastening as fastening errors
- External Count Function: To be available to various assembling jobs, the DLR5640 enables counting of two kinds of parts (up to 9 counts each) in addition to the screw tightening counting. These kinds of counting can be used together.
- Link Connection Function: You can build up a simple sequential screw tightening system by connecting the DLR5640 screw tightening counters in series without using any external controller such as a programmable controller
- Driver Lock Function prevents unexpected start of screwdrivers
- Desktop or wall-hung installation is available
- Input voltage range from 100 V AC to 240 V AC is acceptable in any part of the world

Specifications

Model	DLR5640-WN
Count	1 - 99
Counting Method	Count-up / Count-down
Count Correction Function	Count normal fastening only
Self Adjustable Timer Setting	0.01 to 0.99 sec.
Work Detection Function	Yes (1 terminal) / No
External Count Input	2 terminals (PARTS A / PARTS B)
Work Installation Timer Setting	0 to 9.5 sec.
OK Output Timer Setting	0 to 9.5 sec.
NG Alarm	ON(1) / ON(2) / OFF
OK Buzzer	ON(1) / ON(2) / ON(3) / OFF
Count Return Function	ON / OFF
NG Judge Timing	WORK SET / DRIVER ON
Automatic / Manual OK Judge	AUTO / MANUAL
Screwdriver Lock Function	ON / OFF
Multiple Link	Up to 10 counters can be connected.
External Inputs on Terminal Block	SENSOR / RESET / LINK-IN / PARTS A / PARTS B
External Outputs on Terminal Block	OK / NG / LINK-OUT
Parameter Memory	Parameters stored in internal nonvolatile memory
Screwdriver Control	SPEED / LINEAR START
Input Voltage	100 - 240 V AC, 50/60 Hz
Screwdriver Power Supply	33 V DC, 1.5 A
External Dimensions (mm [inch])	W101 x D140 x H57 [W3.98" x D5.51" x H2.24"]
Mass (g [lbs])	800 [1.76]
Accessories	2 m Power cord with USA plug Suspension bail (2 pcs.)



Example of use together with a sensor available in the market

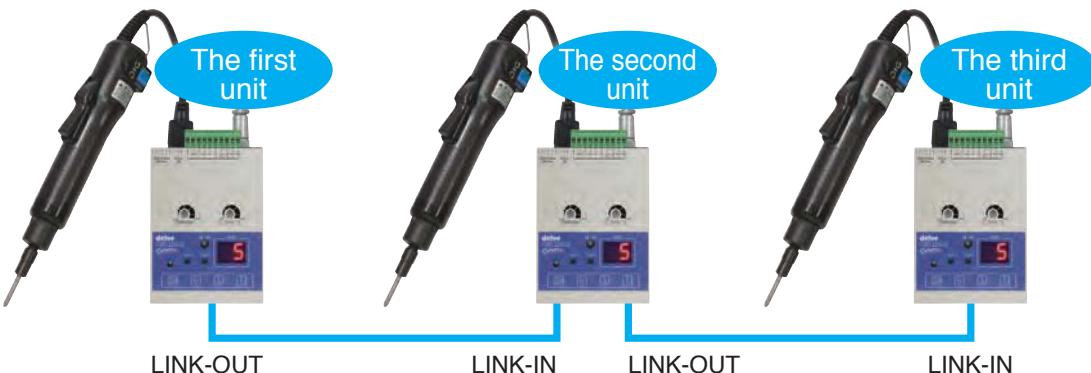


The example of installation

LINK Function (Common to DLR5040A & DLR5640)

When counters are connected and activated in the screw fastening sequence as shown below, all screwdrivers are on standby except the first one in the sequence. Only when the first screw fastening is finished, can the next screwdriver change from standby to ready. When the last fastening in the sequence is finished, the first screwdriver is once again ready and the sequence can be repeated again.

N.B. Up to 10 screwdriver/counter sets can be connected to the LINK.



Screwdrivers designed for DLR5640-WN Non-CE

delvo



DLV7410A/7410HA/7420A-SPC



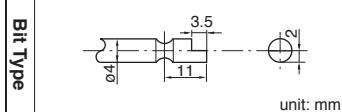
DLV7321/7331-SPC



DLR5640-WN

Specifications

Model	DLV7410A-SPC	DLV7410HA-SPC	DLV7420A-SPC	DLV7321-SPC	DLV7331-SPC
Starting Method		Lever Start			
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 - 0.5 [1.9 - 4.4]	0.3 - 1.2 [2.7 - 10.6]	
Free Speed (min ⁻¹)	500 - 750	700 - 1000	450 - 600	300 - 1000	200 - 700
Power Consumption (W)		Approx. 10			Approx. 35
Screw Size (mm)	Machine Screw Tapping Screw	1.0 - 2.3 1.0 - 2.0	1.6 - 2.6 1.4 - 2.3	1.0 - 3.0 1.2 - 2.6	2.0 - 3.5 2.0 - 3.0
Electrostatic Countermeasure			Complied with EN100015-1		
Mass (g [lbs])		230 [0.51]			350 [0.77]
Cord Length (m)			1.5 (with connector)		
Grounding Bit Feature			Equipped as standard		



Combinations with Electric Screwdrivers

Screwdriver Model	Connection	Remarks
DLV7410A / 7410HA / 7420A-SPC	The cord comes with screwdriver	Screwdriver for the screw fastening counter only
DLV7321 / 7331-SPC	Direct connection to power source	
DLV7410A / 7410HA / 7420A / 7419A / 7419HA / 7429A-BMN	Optional conversion cord (TD02925 DLW9072)	General-purpose screwdriver *1

*1: The Count Return Function is not available.

Optional Accessories



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

Torque Adjustment Ring Cover
(DLW5700: DLV7400A-SPC
DLW5300: DLV7300-SPC)

DLR5040A-WE Non-CE



Screw Fastening Counter

Specifications

Model	DLR5040A-WE
Count	1 - 99
Counting Method	Count-up / Count-down
Count Correction Function	Count normal fastening only
Self Adjustable Timer Setting	0.01 to 0.99 sec.
Work Detection Function	Yes (1 terminal) / No
External Count Input	2 terminals (PARTS A / PARTS B)
Work Installation Timer Setting	0 to 9.5 sec.
OK Output Timer Setting	0 to 9.5 sec.
NG Alarm	ON(1) / ON(2) / OFF
OK Buzzer	ON(1) / ON(2) / ON(3) / OFF
Count Return Function	ON / OFF
NG Judge Timing	WORK SET / DRIVER ON
Automatic / Manual OK Judge	AUTO / MANUAL
Screwdriver Lock Function	ON / OFF
Multiple Link	Up to 10 counters can be connected.
External Inputs on Terminal Block	SENSOR / RESET / LINK-IN / PARTS A / PARTS B
External Outputs on Terminal Block	OK / NG / LINK-OUT
Parameter Memory	Parameters stored in internal nonvolatile memory
Input Voltage	100 - 240 V AC, 50/60 Hz
External Dimensions (mm [inch])	W100 x D120 x H60 [W3.94" x D4.72" x H2.36"]
Mass (g [lbs])	470 [1.04]

Accessory: 2 m cord with UL three-prong plug. This product is for use outside Japan.

Features

For prevention of human fastening errors and enhanced fastening management accuracy

- Ideally suited for the assembly lines of vehicles and electrical equipment requiring reliable screw fastening
- The controller receives signals from electric screwdrivers to provide highly reliable screw fastening control
- Count Return Function: When a screw is loosened, a reverse signal output from the electric screwdriver reverses the count by one
- The Count Correction Function does not count elevated screws or double fastening
- Input voltage range from 100 to 240 V AC is acceptable in any part of the world
(The screwdrivers to be used in combination with the counter require input power supplies that are written on the respective nameplate)
- Link Connection Function: You can build up a simple sequential screw tightening system by connecting the DLR5040A-WE screw tightening counters in series without using any external controller such as a programmable controller
- Driver Lock Function prevents unexpected start of screwdrivers
- Compact and Lightweight (Compared with our conventional models decreased by 30 % in volume and by 38 % in mass)
- SPC type screwdrivers for DLR5040A-WE are designed on the basis of established transformerless screwdrivers

LINK Function

When counters are connected and activated in the screw fastening sequence as shown below, all screwdrivers are on standby except the first one in the sequence. Only when the first screw fastening is finished, can the next screwdriver change from standby to ready. When the last fastening in the sequence is finished, the first screwdriver is once again ready and the sequence can be repeated again.
N.B. Up to 10 screwdriver/counter sets can be connected to the LINK.



Example of use together with a sensor available in the market

DLR5340-WE Non-CE



Features

Up to three sets screwdrivers can be connected to one counter

- Up to eight kinds of screw fastening conditions can be stored in internal memory for a wide variety of assembly work
- Count-up signal outputs
- Space saving
- The Count Correction Function does not count elevated screws or double fastening as fastening errors
- Count Return Function: When a screw is loosened, a reverse signal output from the electric screwdriver reverses the count by one

Specifications

Model	DLR5340-WE
Count	0 - 99
Counting Method	Count-up / Count-down
Count Correction Function	Count normal fastening only
Self Adjustable Timer Setting	0.01 to 2.50 sec.
Work Detection Function	Yes (1 terminal) / No
Work Installation Timer Setting	0 to 9.5 sec.
OK Output Timer Setting	0 to 9.5 sec.
NG Alarm	ON(1) / ON(2) / OFF
OK Buzzer	ON(1) / ON(2) / ON(3) / ON(4) / ON(5) / OFF
Count Return Function	ON / OFF
Screwdriver Lock Function	ON / OFF
Screwdriver Cord Connection	Single cord connection (Signal and power lines)
External Inputs on Terminal Block	SENSOR / RESET / TORQUE CHECK / ch1/2/3
External Outputs on Terminal Block	OK / NG / COUNT-UP / DRIVER A/B/C
Input Voltage	100 - 240 V AC, 50/60 Hz
External Dimensions (mm [inch])	W150 x D120 x H60 [W5.91" x D4.72" x H2.36"]
Mass (g [lbs])	620 [1.37]

Accessory: 2 m cord with UL three-prong plug. This product is for use outside Japan.

Dedicated Screwdrivers for DLR5040A-WE and DLR5340-WE Non-CE

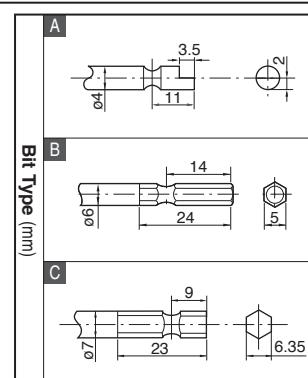
Small

**Specifications**

Model	Lever Start	Miniature Screw (1.0 - 3.5 mm)												
	Push to Start	DLV7020-SPC	DLV7030-SPC	DLV7031-SPC	-	-	-							
Input Voltage		100 V AC, 50/60 Hz												
Torque Adjustment		Stepless												
Torque (Nm [lbf-in])	0.05 - 0.55 [0.4 - 4.9]	0.30 - 1.10 [2.7 - 9.7]	0.30 - 1.00 [2.7 - 8.9]	0.10 - 0.55 [0.9 - 4.9]	0.30 - 1.10 [2.7 - 9.7]	0.30 - 1.00 [2.7 - 8.9]								
Free Speed (min⁻¹)	900	650	1200	900	650	1200								
Power Consumption (W)	Approx. 25		Approx. 30		Approx. 25		Approx. 30							
Screw Size (mm)	Machine Screw 1.0 - 3.0	2.0 - 3.5	2.0 - 3.0	1.0 - 3.0	2.0 - 3.5	2.0 - 3.0								
	Tapping Screw 1.2 - 2.6	2.0 - 3.0		1.2 - 2.6	2.0 - 3.0									
Bit Type		A												
Mass (g [lbs])	380 [0.84]			390 [0.86]										
Cord Length (m)	3 (with connector)													
Bit Grounding	Equipped as standard													

Model	Lever Start	Machine Screw(2.6 - 8.0 mm)										
	Push to Start	DLV7120-SPC	DLV7130-SPC	DLV7140-SPC	DLV7231-SPC	DLV7241-SPC						
Input Voltage		100 V AC, 50/60 Hz *¹										
Torque Adjustment		Stepless										
Torque (Nm [lbf-in])	0.35 - 0.70 [3.10 - 6.20]	0.50 - 1.70 [4.4 - 15.1]	1.20 - 3.00 [10.6 - 26.6]	0.50 - 1.70 [4.4 - 15.1]	1.20 - 3.00 [10.6 - 26.6]							
Free Speed (min⁻¹)	1000		700	2000		1200						
Power Consumption (W)	35							45				
Screw Size (mm)	Machine Screw 2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	2.6 - 4.0	3.5 - 5.0							
	Tapping Screw 2.3 - 3.0	2.5 - 3.5	3.0 - 4.0	2.5 - 3.5	3.0 - 4.0							
Bit Type		B *²										
Mass (g [lbs])	710 [1.57] (7100series) / 670 [1.48] (8100series)			710 [1.57] (7200series) / 670 [1.48] (8200series)								
Cord Length (m)	3 (with connector)											
Bit Grounding	Equipped as standard											

Model	Lever Start	Machine Screw(2.6 - 8.0 mm)				
	Push to Start	DLV8150-SPC	DLV8251-SPC			
Input Voltage		100 V AC, 50/60 Hz *¹				
Torque Adjustment		Stepless				
Torque (Nm [lbf-in])	2.0 - 4.5 [17.7 - 39.8]					
Free Speed (min⁻¹)	450 700					
Power Consumption (W)	45					
Screw Size (mm)	Machine Screw 4.5 - 6.0					
	Tapping Screw 4.0 - 5.0					
Bit Type	C					
Mass (g [lbs])	810 [1.79]					
Cord Length (m)	3 (with connector)					
Bit Grounding	Equipped as standard					



Model	Lever Start	Machine Screw(2.6 - 8.0 mm)												
	Push to Start	DLV30A06P-SPC	DLV30A12P-SPC	DLV30A20P-SPC	DLV45A06P-SPC	DLV45A12P-SPC	DLV70A06P-SPC							
Input Voltage		100 V AC, 50/60 Hz *¹												
Torque Adjustment		Stepless												
Torque (Nm [lbf-in])	0.4 - 1.6 / 1.2 - 3.0 [3.5 - 14.2 / 10.6 - 26.6]			2.0 - 4.5 [17.7 - 39.8]		3.8 - 7.0 [33.6 - 62.0]								
Free Speed (min⁻¹)	650		1200	2000		650	1200	650						
Power Consumption (W)	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								
Bit Type	B *²			C										
Mass (g [lbs])	700 [1.54]			870 [1.92] with pistol grip										
Cord Length (m)	3 (with connector)													
Bit Grounding	Equipped as standard													

*¹: Please contact us for other voltage availabilities. *²: Please contact us for 6.35 mm bit type.

Optional Accessories

Torque Adjustment Ring Cover

DLW5200: DLV7100/7200/8100/8200-SPC

DLW5300: DLV7000/8000-SPC

- This minimizes tampering or accidental turning of the torque adjustment ring once the torque is set.
- Flanged coupling DLW9011 can not be mounted on SPC type



Pistol Grip

DLW2300: DLV7100/7200/8100/8200/30/45/70-SPC

- Suitable for horizontal operation



TD04061 SPC cord for commercial power source (optional)

- Dedicated screwdrivers can be directly plugged in commercial power source.

Transformerless (AC)	Brush motor	Brushless motor
Miniature screw	Precision screw	Machine screw
2.6 - 8.0 mm		



The Vacuum Pickup is optional.

Specifications

Electric Screwdriver	Model	Bit	Standard coupling	DLV30A06A-N(AA) : J	DLV30A12A-N(AA) : J	DLV30A20A-N(AA) : J	DLV45A06A-N(AA) : K	DLV45A12A-N(AA) : K	DLV70A06A-N(AA) : K
	Coupling with flange		DLV30A06A-F(AA) : J	DLV30A12A-F(AA) : J	DLV30A20A-F(AA) : J	DLV45A06A-F(AA) : K	DLV45A12A-F(AA) : K	DLV70A06A-F(AA) : K	
	Coupling with M41 screw		DLV30A06A-M(AA) : J	DLV30A12A-M(AA) : J	DLV30A20A-M(AA) : J	DLV45A06A-M(AA) : K	DLV45A12A-M(AA) : K	DLV70A06A-M(AA) : K	
	Input Voltage								
100 V AC, 50/60 Hz									
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
Screw	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
Size (mm)	Standard coupling				700 [1.54]			780 [1.72]	
	Coupling with flange				760 [1.68]			840 [1.85]	
	Coupling with M41 screw				740 [1.63]			820 [1.81]	
Power Consumption (W)					45				
Starting Method									
External input signal									
Input signal									
Start signal / Forward signal / Reverse signal (5 - 24 V DC)									
Output signal									
Torque-up signal (Voltage under 30 V DC and current 20 mA)									
Standard Accessories				• Bit NK31 (No.2 x 6 x 70): 1 pc.			• Bit NK35 (No.2 x 7 x 75): 1 pc.		
				• Low torque spring: 1 pc.					
Bit Type (mm)	J		*3	K					
		14			9				
*1: Standard Accessory *2: Installed *3: DLV30A is available upon request for use with 6.35 mm hex. shank bits.									

Optional Accessories



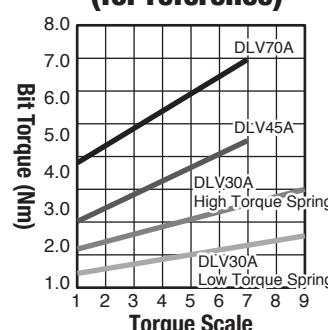
Vacuum Pickup
DLP7400(M3/M4 screws)
DLP7400 for high torque
(M5/M6 screws)



Vacuum Pump
DLP2530/2570

* Please see page 39 for details.

Torque Diagrams (for reference)



Screwdriver Cable Breakdown List

Power/Input Signal Cable

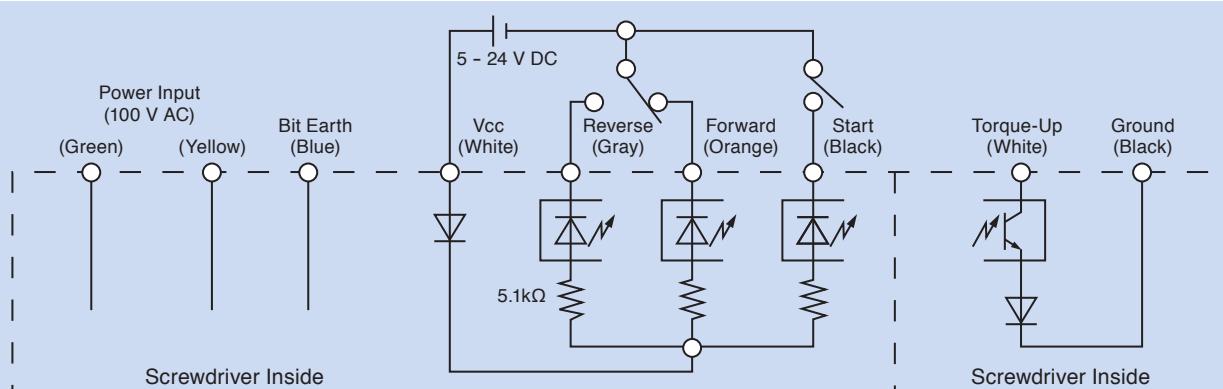
Color	Details
Green	Power input
Yellow	Power input
Blue	Bit earth
White	Input signal common (Vcc)
Black	Start signal input
Orange	Forward signal input
Gray	Reverse signal input

Power input voltage: 100 V AC

Output Signal Cable

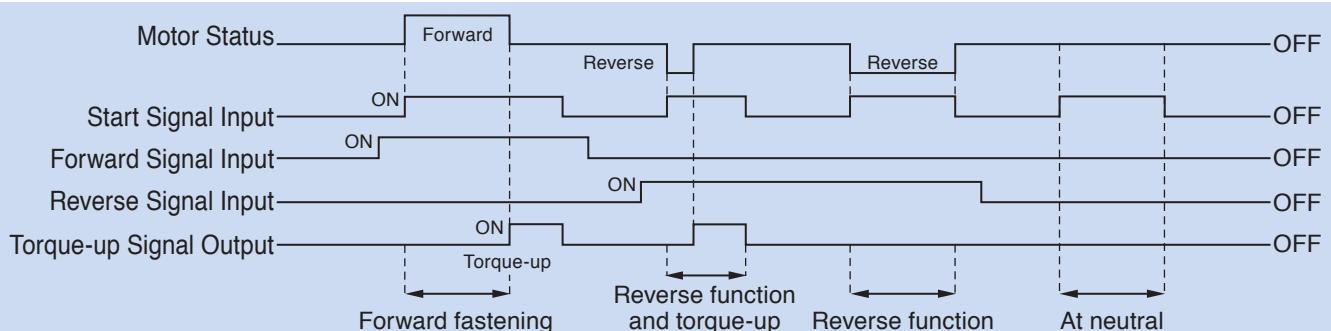
Color	Details
White	Torque-up signal output
Black	Ground

Power Input/Output Signal Schematic Diagram

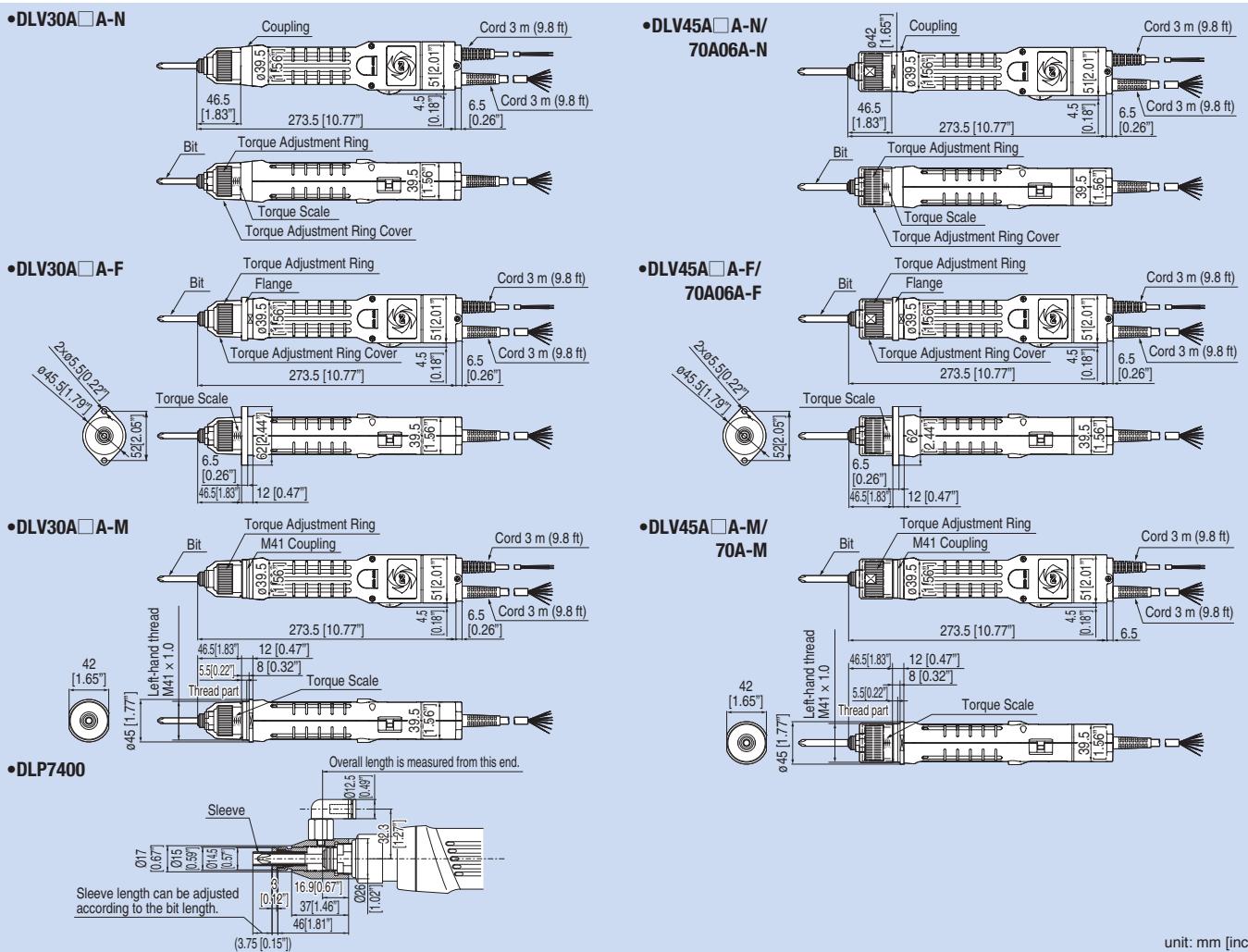

Caution

- Each input/output signal is insulated from a screwdriver's internal circuit.
- Input signal rated range: Use in the range of voltage between 5 – 24 V DC (current 0.5 – 5 mA DC)
- Torque-up signal output maximum rating: Use in the range of voltage under 30 V DC and current 20 mA DC.

Operation Timing Chart



External Dimensions



unit: mm [inch]

According to Model		
Brush motor	Brushless motor	
Miniature screw	Precision screw	Machine screw
1.0 - 6.0 mm		



DLV3100/3300 Series (For Automation) Non-CE

delvo

DLV3100 series DLV3300 series



Features

A Labor-Saving "delvo" for Automatic Assembly Robot

- Vibration-proof and shock-proof for long continuous screw tightening
- Torque-up signal output
- High repetitive torque accuracy

1: Models DLV3121 / 3131 / 3141 / 3151 have no bit-holding function. Please order the following models with bit holding function if required, but they require 100 V AC power source and are made to order products.

- DLV3128-EJN • DLV3138-EJN
- DLV3148-EJN • DLV3158-EJN

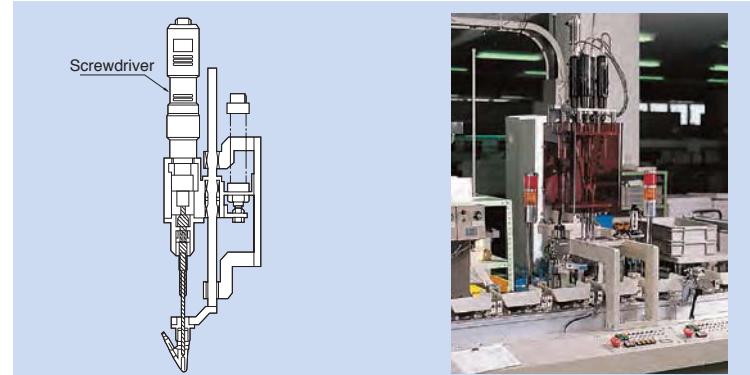
NOTE: The bit mounting is made in a specific way.

Specifications

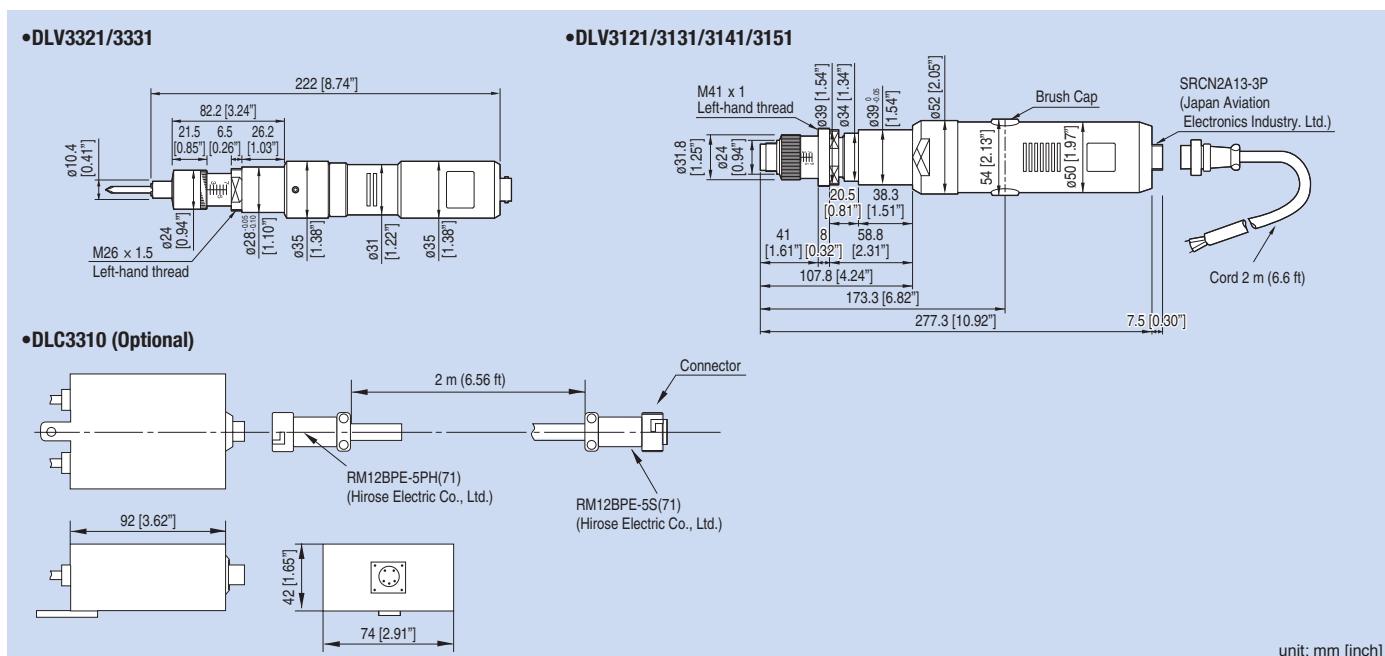
Electric Screwdriver	For Precision Screws		For Machine Screws							
	Model	DLV3321-CMN	DLV3331-CMN	DLV3121-EJN*1	DLV3131-EJN*1	DLV3141-EJN*1				
	Input Voltage	36 V DC (supplied from controller)		100 V AC, 50/60 Hz						
	Torque Adjustment	Stepless								
	Torque (Nm [lbf-in])	0.05 - 0.5 [0.4 - 4.4]	0.3 - 1.2 [2.7 - 10.6]	0.25 - 0.7 [2.2 - 6.2]	0.5 - 1.5 [4.4 - 13.3]	1.2 - 3.0 [10.6 - 26.6]				
	Free Speed (min ⁻¹)	900	600	900	600	450				
	Power Consumption (W)	Approx. 35				Approx. 45				
Screw Size (mm)	Machine Screw	1.0 - 3.0	2.0 - 3.5	2.3 - 2.6	2.6 - 3.5	3.5 - 5.0				
	Tapping Screw	1.2 - 2.6	2.0 - 3.0	2.3 - 3.0	2.5 - 3.5	3.0 - 4.0				
Mass (g [lbs])	400 [0.88]			900 [1.98]						
	Standard Accessories			• Connection Cord (2 m): 1 pc. • Spare Carbon Brush: 2 pc.						
Bit Type (mm)	For CMN	For EJN	* The 2 m cord exclusively for DLV3321/3331 comes with DLC3310 as a standard accessory.							

Controller	Model	DLC3310
	Input Voltage	24 V AC, 50/60 Hz
	Output Voltage	36 V DC
	Mass (g [lbs])	360 [0.79]

Installation Example



External Dimensions



unit: mm [inch]

DLT1173A/1673A/1973A Series

Torque Checker



Specifications

Model	DLT1173A	DLT1673A	DLT1973A
Measurement Range (Nm[lbf-in])	0.015 - 1.500 [0.13 - 13.3]	0.15 - 10.00 [13.5 - 88.5]	4.00 - 12.00 [35.4 - 106.2]
Calibration Precision	Within ± 0.5% (Full Scale) For 0.2 Nm [2 lbf-in] or less ± 1 digit	Within ± 0.5% (Full Scale) For 2 Nm [20 lbf-in] or less ± 1 digit	Within ± 0.5% (Full Scale)
Display	4-digit digital display (Single-line)	Data sampling: 1000 times/sec.	Display rate: 12 times/sec.
Measuring Unit	kgf•cm, Nm, lbf•in (selectable)		
Data Memory	800 pieces of data		
Measuring Direction	CW and CCW		
Measuring Mode	3 modes: PD-TR-PP		
Auto Power Off	Power off if left untouched for 10 minutes		
External Output	As per USB output	Mitsutoyo Digimatic	
Analog Output	Approx. 1.5 V max. No zero offset; identical waveforms produced in PP, PD, and TR modes	Approx. 1.0 V max.	Approx. 1.1 V max.
Continuous Operation Time	20 hours		
External Dimensions (mm) [inch]	W160 x D110 x H47 [W6.3" x D4.33" x H1.85"]	W200 x D112 x H48.5 [W7.9" x D4.41" x H1.89"]	
Mass (g [lbs])	1100 [2.43]	1400 [3.09]	
Rechargeable Battery	Nickel metal hydride battery		
Charger Type	DLE1833A		
Input Voltage for Charger	100 - 240 V AC, 50/60 Hz		
Charging Time	4 hours		
Standard Accessories	• Screw Joint (DLW4430)	• Bit Joint (DLW4360) • Spring for Joint (DLW4660)	• Soft Joint (DLW4000)

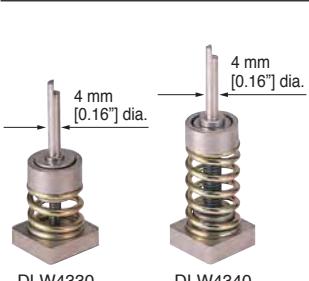
Optional Accessories

	Model	Part No.	Shape	Torque Range	DLT1173A	DLT1673A	DLT1973A
Bit Joint	DLW4330	TD03305	OD 4 mm [0.16"] type	0.015 - 0.25 Nm [0.13 - 2.2 lbf-in]	○	—	—
	DLW4340	TD03306	OD 4 mm [0.16"] type	0.15 - 1.5 Nm [1.3 - 13.3 lbf-in]	○	○	—
	DLW4350	TD03307	Hex 5 [0.2"] and Hex 6.35 [1/4"] types	0.15 - 1.5 Nm [1.3 - 13.3 lbf-in]	○	○	—
	DLW4360	TD03308	Hex 5 [0.2"] and Hex 6.35 [1/4"] types	0.15 - 6.5 Nm [1.3 - 57.5 lbf-in]	—	○	—
Screw Joint	DLW4430	TD03309	screw type (Bit size No.2)	0.15 - 1.5 Nm [1.3 - 13.3 lbf-in]	○	○	—
	DLW4530*1	TD03310	screw type (Bit size No.2)	0.15 - 5 Nm [1.3 - 44.3 lbf-in]	—	○	—
Soft Joint	DLW4000	TD04123	Hex 13 [0.51"] type	4.0 - 12.0 Nm [35.4 - 106.2 lbf-in]	—	○	○
Hard Joint	DLW4040	TD04124	(Hex. head bolt)		—	—	○
Spring	DLW4660	TV03826	Spring for DLW4340, 4350, 4430	-	○	○	—

*1 DLW4530 must be used at 5 Nm[44.3 lbf-in] or less.

○: Standard accessories ○: Available as option —: Unsupported

Bit Joint



Screw Joint



Soft Joint



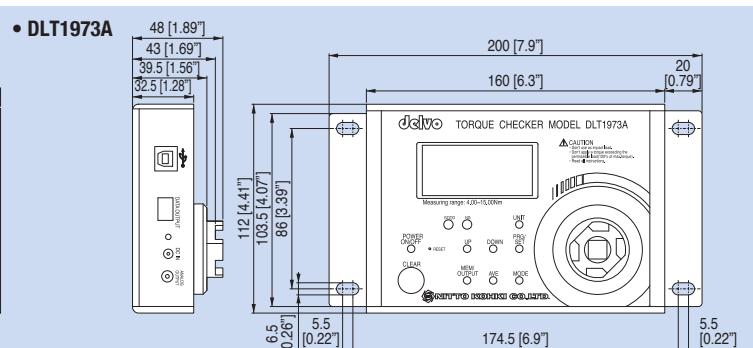
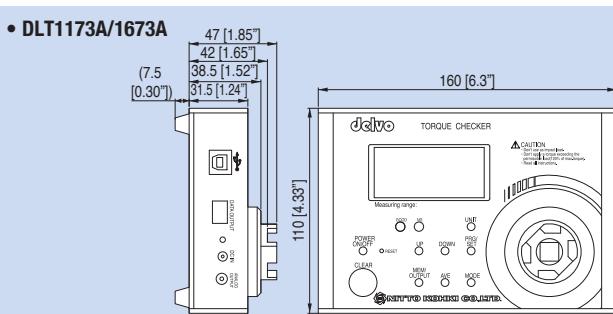
Hard Joint



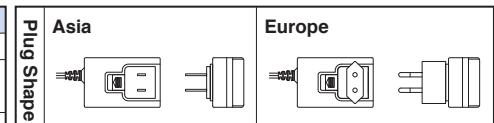
Spring



External Dimensions



Unit: mm [inch]



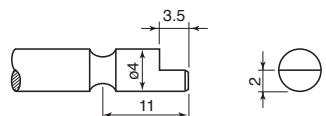
Selection of Torque Checker

DLT1173A	DLT1673A	DLT1973A
DLV3300*2	DLV7100/7200/ 8100/8200	DLV45A/70A
DLV5700		DLV45S/70S
DLV5800	DLV7500/8500	DLV45A/70A
DLV7300	DLV3100*3	(automation)
DLV7000/8000	DLV30A/45A	
DLV7400A	DLV30S/45S	
DLV02/12	DLV16	
DLV04C/10C	DLV7104/8104/8204	
	DLV30A/45A (automation)	

*2: A reversible screwdriver is required to loosen the measuring joint.

*3: A reversible screwdriver is required to loosen the measuring joint. Screw joint is required.

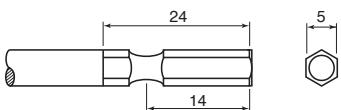
■ For DLV7400A, 5700, 5800, 7300,
7000, 8000, 3300 series



OD 4 mm Shank

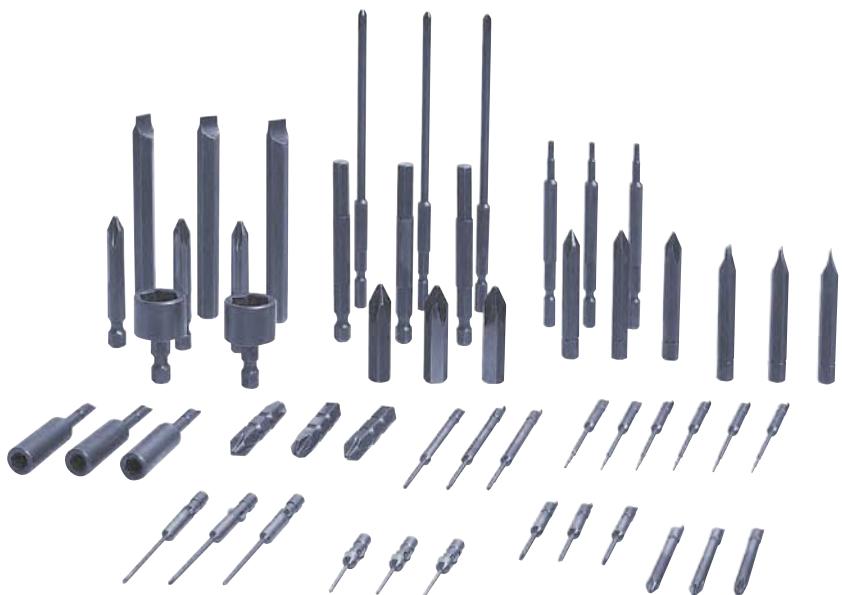
Model	Part No.	Size			Dimensions
		No.	d	L	
Phillips	TD20009	00	2	44	
	TD20010			64	
	TD20021	0	1.8	44	
	TD20022			64	
	TD20029		2.5	44	
	TD20030			64	
	TD20037	1	3	44	
	TD20038			64	
	TD20039		4	44	
	TD20040			64	
	TD20047	2	4	44	
	TD20048			64	
	TD20050	3	6	44	
Model	Part No.	W × T × L			Dimensions
Plain Slot	TD20051	2	0.3	44	
	TD20052	2.5	0.3		
	TD20053	3	0.4		
	TD20054	4	0.5		
	TD20055	5	0.65		
Model	Part No.	H × L			Dimensions
Hexagon Head	TD20056	1.5	44		
	TD20057	2			
	TD20058	2.5			
	TD20059	3			
	TD20060	4			
Model	Part No.	H × d × L			Dimensions
Hex Socket	TD20064	4	6	44	
	TD20065	4.5	7		
	TD20066	5	7		
	TD20067	5.5	8		

■ For DLV7100, 7200, 8100, 8200, 3100,
A(DLV30A) series

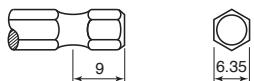


OD 5 mm Hex. Shank

Model	Part No.	Size			Dimensions
		No.	d	L	
Phillips	TD20193	1	4	70	
	TD20194			100	
	TD20196		5	70	
	TD20197	6		100	
	TD20200			70	
	TD20201			100	
	TD20210	2	5	70	
	TD20211			100	
	TD20214		70		
	TD20215		6	100	
Model	Part No.	No. × L			Dimensions
Phillips	TD20224	1	70	X-X'	
	TD20225		100		
	TD20232		70		
	TD20233	2	100		
	TD20235		150		
Model	Part No.	H × d × L			Dimensions
Hexagon Head	TD20254	2	4	70	
Part No.	H × L			H	
TD20256	2.5	70			
TD20258	3				
TD20260	4				
TD20262	5				
Model	Part No.	H × D × d × L			Dimensions
Hex Socket	TD20272	5.5	9	4	70
	TD20274	6	10	4.5	70
	TD20276	7	11	5.5	70
	TD20277				100
	TD20278	8	13	6	70
	TD20279				100
	TD20282	10	16	8	70
	TD20283				100



■ For DLV7500, 8500, 7100, 7200, 8100, 8200,
02, 12, 16, A(DLV30A/45A/70A) series



OD 6.35 mm Hex. Shank

Unit: mm

Model	Part No.	Size			Dimensions		
		No.	x	d	x	L	
Phillips	NK35	TD20306	1	4	75		
		TD20307			100		
		TD20308			50		
		TD20309			75		
		TD20310			100		
		TD20311			120		
		TD20312			150		
		TD20313	2	7	200		
		TD20319			50		
		TD20320			75		
		TD20321			100		
		TD20322			120		
		TD20323			150		
		TD20324			200		
		TD20327	3	3	50		
		TD20328			75		
		TD20329			100		
		TD20330			120		
		TD20331			150		
		TD20332			200		
		TD20335	NK36	0	50		
		TD20336			3.8		
		TD20337			4.5		
		TD20338			4.5		
Phillips	NK15	TD20354	1	1	50		
		TD20355			75		
		TD20356			100		
		TD20357			120		
		TD20358			150		
		TD20359			200		
		TD20362	2	2	50		
		TD20363			75		
		TD20364			100		
		TD20366			150		
		TD20367			200		
		TD20371	3	3	75		
		TD20372			100		
		TD20374			150		
		TD20375			200		
Plain Slot	NK35M	TD20378	7	0.9	50		
		TD20379			75		
		TD20380			100		
		TD20382	1.27	3	70		
Hexagon Head	NK35X	TD20385			50		
		TD20388			75		
		TD20391			100		
		TD20394	2.5	3	70		
		TD20397			75		
		TD20400			100		
		TD20404	4	2	50		
		TD20404			75		
		TD20404			100		
Hex Socket	NK35BN	TD20442	10	16	8	75	
		TD20443				100	
		TD20457	13	19	10	75	
		TD20458				100	
		TD20458				75	

If Bits other than the above are required,
please contact Nitto Kohki or our distributors.



Vacuum Pickups and Sleeves

Screwdriver series		Vacuum Pickup			Sleeve (Standard accessory)	
		Type	Model	Part No.	Model	
DLV7000/DLV8000/DLV3300	Type A	DLP6500	TD00343	DLS2124/DLS2127/DLS2130	DLS2120/DLS2124 DLS2122/DLS2124/DLS2127 DLS2123/DLS2124/DLS2127 DLS2135	1 piece each
	Type B	DLP5300	TD04342	DLS2120/DLS2124		
		DLP7100	TD00345	DLS2122/DLS2124/DLS2127		
		DLP7200	TD00346	DLS2123/DLS2124/DLS2127		
		DLP7300	TD00347	DLS2135		
DLV7100/DLV7200/DLV8100/DLV8200	Type C	DLP7000	TD00344	DLS3223/DLS3225	DLS3223/DLS3225	1 piece each
		DLP7400	TD07285-0	DLS3223/DLS3225		
		DLP7400	TD07286-0	DLS4220/DLS4221		
	Type D	DLP6600/DLP6610	TD08748/TD08751	DLS2124/DLS2127/DLS2134	DLS2124/DLS2127/DLS2134	1 piece each
DLV7104/DLV8104/DLV8204		DLP6640/DLP6650	TD08804/TD08805	DLS4225/DLS4227		
DLV30A	For HEX. 5 mm (M3, M4)					
DLV30S	For HEX. 6.35 mm (1/4")					
A series						
S series	(M5, M6)					
C series	For Ø4 mm					
	For HEX. 6.35 mm (1/4")					

Type	Type A	Type B	Type C		Type D			
Vacuum Pickup	DLP6500 	DLP5300/DLP7100/ DLP7200/DLP7300 	DLP7000 	DLP7400 	DLP6600 	DLP6610 	DLP6640 	DLP6650
Sleeve	DLS2000 series (plastic) 	DLS3000 series (metal) 	DLS4000 series (metal) 	DLS4220/4221 	DLS4225/4227 			

DLS2000 series For Ø4 mm

Model	Part No.	Sleeve		Bit (No. x d x L) (+)		No. 0 x 1.8 x 44			
		ød	øD	mm	inch				
DLS2120	TD00348	2	0.08	3.5	0.14				
DLS2121	TD00349	2.2	0.09						
DLS2122	TD00350	2.5	0.1						
DLS2123	TD00351	2.7	0.11						
DLS2124	TD00352	3.1	0.12	4.5	0.18	No. 0 x 2.5 x 44			
DLS2125	TD00353	3.3	0.13			No. 1 x 3 x 44			
DLS2126	TD00354	3.5	0.14			No. 1 x 4 x 44			
DLS2127	TD00355	3.7	0.15			No. 2 x 4 x 44			
DLS2128	TD00356	4	0.16	5.5	0.22				
DLS2129	TD00357	4.2	0.17		No. 1 x 5 x 70				
DLS2130	TD00358	4.5	0.18		No. 2 x 6 x 70				
DLS2131	TD00359	4.7	0.19		No. 1 x 5 x 100				
DLS2132	TD00360	5.1	0.2	6.5				0.26	
DLS2133	TD00361	5.3	0.21		No. 1 x 5 x 100				
DLS2134	TD00362	5.6	0.22		No. 1 x 5 x 100				
DLS2135	TD00363	6.1	0.24		No. 2 x 6 x 100				

DLS3000 series For HEX. 5 mm

Model	Part No.	Sleeve		Bit (No. x d x L) (+)		No. 1 x 5 x 70			
		ød	øD	mm	inch				
DLS3222	TD00364	5.6	0.22	9	0.35				
DLS3223	TD05024	6.1	0.24						
DLS3224	TD00365	6.4	0.25						
DLS3225	TD00366	7.1	0.28						
DLS3226	TD00367	4.6	0.18	7	0.28	No. 1 x 4 x 100			
DLS3227	TD00368	5.1	0.2						
DLS3228	TD00369	5.6	0.22						
DLS3229	TD00370	6.1	0.24						
DLS3230	TD00371	6.4	0.25	9	0.35	No. 1 x 5 x 100			
DLS3231	TD00372	7.1	0.28						

DLS4000 series For HEX. 6.35 mm (1/4")

Model	Part No.	Sleeve		Bit (No. x d x L) (+)		No. 2 x 7 x 75			
		ød	øD	mm	inch				
DLS4220	TD08001	9.1	0.36	7	0.28				
DLS4221	TD08002	10.6	0.42						
DLS4225	TD09344	4.6	0.18						
DLS4227	TD09345	5.6	0.22						

Accessories

Tool Balancer



Easy to adjust tension by using handle.

Model	TW-06R	TW-1R	RW-3	RW-5
Capacity (g [lbs])	200 - 600 [0.44 - 1.32]	500 - 1500 [1.1 - 3.31]	1000 - 3000 [2.2 - 6.61]	2500 - 5000 [5.51 - 11.02]
Stroke (m [inch])	1.5 [59"]		2 [78.7"]	
Mass (g [lbs])	300 [0.66]		700 [1.54]	900 [1.98]

Vacuum Pump DLP2500 series



Electric Screwdrivers can be used with Vacuum Pump and Vacuum Pickup. The sleeve of Vacuum Pickup sucks the screw and holds it on the bit, enabling the operator to pick it up with the tool itself, thus improving operational efficiency and operator's productivity.

Model	DLP2530	DLP2570
Features	Standard	With CE mark
Voltage	100 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Power Consumption (W)	30(50 Hz), 26(60 Hz)	
Achievable Vacuum (kPa)		-21.3
Flow Rate (at Outlet) (L/min)	24(50 Hz), 26(60 Hz)	
Screw Size (mm)		4 or less
Mass (g [lbs])	3800 [8.38]	

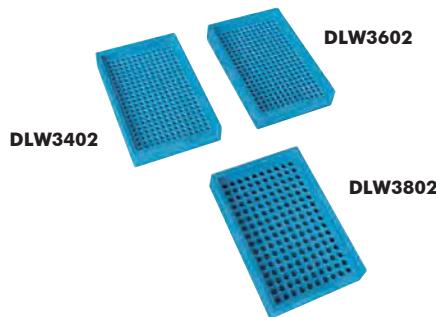
Pistol Grip DLW2300/2300ESD

(for DLV7100, 7200, 8100, 8200, 7500, 8500, 30/45/70-IKE, S(DLV30S/45S/70S) series and A(DLV30A/45A/70A) series Electric Screwdrivers)



Easy-to-attach grip suitable for horizontal operation.

Shaker Box Made of Anti-electrostatic Resin



The screws will fall into the heads-up position for easier vacuum or magnetic pickup.

The anti-electrostatic resin greatly reduces static build-up and dust attached to the shaker box.

Model	DLW3402	DLW3602	DLW3802
Part No.	TD04110	TD04111	TD04112
Hole Pitch (mm [inch])	6 [0.24"]	8 [0.31"]	
Hole Depth (mm [inch])	13.5 [0.53"]		12.5 [0.49"]
No. of Holes	273	273	160
Screw Size (mm)	1.7 - 2	2 - 2.6	3 - 4

Torque Adjustment Ring Cover



Fits over torque adjustment cover to minimize tampering or accidental turning once the torque is set.

Model	Part No.	Applicable Screwdriver
DLW5200	TD00331	DLV7100, 7200, 8100 and 8200 series
DLW5201*1	TD05639	DLV7100, 7200, 8100 series and DLV30A (Transformerless Type)
DLW5202	TD08486	DLV45S/70S and DLV45A/70A
DLW5203	TD09222	DLV30S and DLV30A (Low Voltage Type)
DLW5300	TD00332	DLV7301, 7000, 8000 series (for 4 mm bit)
DLW5400	TD01883	DLV7301 series (for 6.35 mm bit)
DLW5500	TD00333	DLV7303 series (for 4 mm & 6.35 mm bit)
DLW5600	TD00334	DLV7500, 8500 series
DLW5700	TD02875	DLV5700, 5800, 7400A series
-	TV07315	DLV02/12/16SL-BKE series
-	TV06787	DLV02/12/16SL-CKE series

*1: As this is a clear plastic cover, torque scale can be seen even after mounted on the screwdriver.

Flanged Coupling DLW9011

(for DLV7100, 7200, 8100, and 8200 series Electric Screwdrivers)

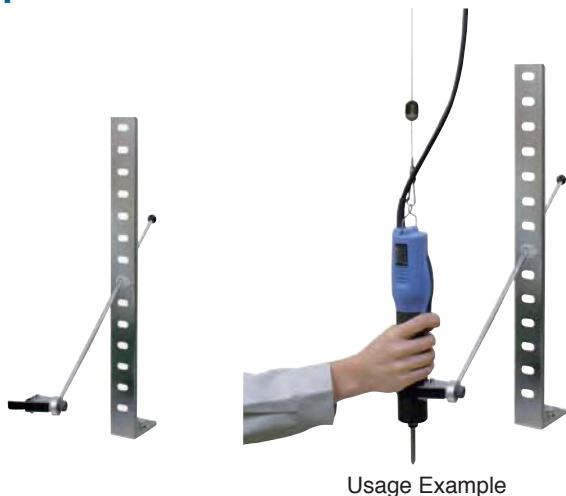
*Can not be mounted on SPC type



Provides a flange which enables the operator to apply axial pressure through the heel of the hand.

Accessories

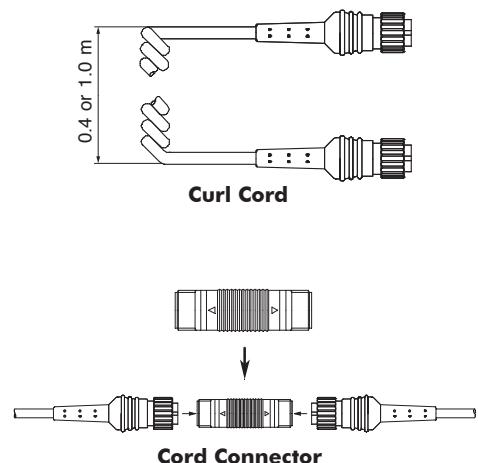
Torque Reaction Arm



For enhanced productivity and prevention of operator's repetitive motion injury, a torque reaction arm should be used all together.

Part No.	Description	Applicable Screwdriver
TD06180	Torque Reaction Arm	A series(DLV30A/45A/70A) S series(DLV30S/45S/70S)

Optional Cord



Please inquire of the distributor for the price and minimum quantity on each optional cord.

Part No.	Optional Cord	Applied Models	Length (m)
TD02826	5P to 6P Exchange Cord*1	DLV7300 series	0.1
TD02548	Extension Cord For 5P		3.0
TD03159	Extension Cord For 6P		2.0
TD01882	Curl Cord	DLV7500/8500 series	0.4
TD02820	Curl Cord		1.0
TD02438	Cord Connector DLW9100		

*1: "5P to 6P Exchange Cord" is used to connect "5-prong Screwdriver" to "6-prong Controller".

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