

Dk300m

Electric Screwdrivers





Nitto Kohki's "**Jelvo**" 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 according to such substances and reduce the impact to the global environmental conservation and to the ecological system.

Scope of Application

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

Our Green Procurement Activities

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

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

Classification in this catalog

Power type								
Brush motor Brushless motor								
Miniature screw		ision rew	Machine screw					
:	Screv	w Size	•					

- The type of power source is indicated.

The type of motor is indicated.

- The type of screw* is indicated.

- The size range of screw is indicated.

Miniature screw ... for 1.0 to 2.6 mm Precision screw ... for 1.0 to 3.5 mm Machine screw ... for 2.6 to 8.0 mm



About Torque Management

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

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Quick Reference Symbols



Lever Start Operates when the lever is pressed.



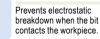
Brushless Motor Maintenance free, no brush replacement required. Realizes high durability.

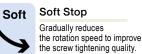


Clean room adaption Adapts to assembly in class 5 clean rooms



Grounded Bit







to a suitable tightening speed.



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



electrostatic breakdown. Variable Speed Can be adjusted

Low



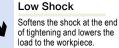
Low Voltage

Connect to dedicated

controller. Operates at

electric voltage under 42V.

delvo







[Brushless Motor - DC Power Supply]

P	Q	Š	ş	(2 7	(mm)	S	M	٣	Pc	Ē	S	Г	M	Ŧ	B	(† St	Con	troller
Page	Outer Appearance	Series	Model	Torque Range (Nm [lbf-in])	m)	Screw Size	Mass (g [lbs])	Lever Start	Push to Start	ESD Protection	Soft Stop	Low Speed	Medium Speed	High Speed	Built-in Screw Counter	SPC Type available (for screw counter)	Model	Outer Appearance
					min.	max.									Ф,			
7		C Series (Current	DLV04C10L	0.05 - 0.4 [0.4 - 3.5]	1.2	3.0	370	•		•		•	•		•		DCC0101	
,		control type)	DLV10C10L	0.2 - 1.0 [1.8 - 8.9]	1.8	4.0	[0.82]	•		•		•	•		•		2000101	1
			DLV30S06L					٠		•	٠	٠			٠			
			DLV30S06P						٠	•	•	٠			٠		DEA0151N-AZ or	
			DLV30S12L	0.4 - 3.0	2.6	5.0	710	٠		•	•		٠		٠		DEA0241N-AZ	
			DLV30S12P	[3.5 - 26.6]	2.0	5.0	[1.57]		٠	•	•		٠		٠			
		S Series	DLV30S20L					٠		•	٠			٠	٠		DEA0241N-AZ	
10	10	(Variable	DLV30S20P						•	•	•			•	٠		52/02/07/2	
		speed type)	DLV45S06L					٠		•	٠	٠			٠		DEA0151N-AZ or	100
		-1	DLV45S06P	2.0 - 4.5	4.5	6.0			•	•	•	٠			٠		DEA0241N-AZ	
			DLV45S12L	[17.7 - 39.8]	4.5	0.0	860	٠		•	•		٠		٠		DEA0241N-AZ	-
			DLV45S12P				[1.90]		٠	•	٠		٠		٠			
			DLV70S06L	3.8 - 7.0	5.0	8.0		٠		•	•	•			٠			
			DLV70S06P	[33.6 - 62.0]	5.0	0.0			٠	•	٠	۲			٠			
			DLV30A06L					٠		•		•						
			DLV30A06P						٠	•		•					DEA0151N-AZ or	-0-
			DLV30A12L	0.4 - 3.0	2.6	5.0	690	٠		•			٠				DEA0241N-AZ	
			DLV30A12P	[3.5 - 26.6]	2.0	0.0	[1.52]		٠	•			٠					
			DLV30A20L					٠		•				•			DEA0241N-AZ	
13		A Series	DLV30A20P						•	•				•				120
			DLV45A06L					٠		•		•					DEA0151N-AZ or	
	Concession of the local division of the loca		DLV45A06P	2.0 - 4.5	4.5	6.0			٠	•		٠					DEA0241N-AZ	
			DLV45A12L	[17.7 - 39.8]		0.0	840	٠		•			٠					
			DLV45A12P				[1.85]		٠	•			•				DEA0241N-AZ	
			DLV70A06L	3.8 - 7.0	5.0	8.0		٠		•		•		•				
			DLV70A06P	[33.6 - 62.0]	0.0	0.0			٠	•		•		•				
			DLV02SL-CKE DLV02SL-BKE	0.03 - 0.2 [0.3 - 1.8]	1.0	2.2		•		•			•					
15		DLV02/12/16	DLV12SL-CKE DLV12SL-BKE	0.15 - 1.2 [1.3 - 10.6]	1.4	3.0	470 [1.04]	•		•			•				DLC16S	
	and the second s		DLV16SL-CKE DLV16SL-BKE	0.2 - 1.6 [1.8 - 14.2]	2.2	4.0		•		•			•					T

[Brushless Motor - AC Power Supply]

Page	Outer Appearance	Series	Model	Torque Range (Nm [bf·in])		Screw Size	Mass (g [lbs])	Lever Start	Push to Start	ESD Protection	Soft Stop	Low Speed	Medium Speed	High Speed	Built-in Screw Counter	SPC Type available (for screw counter)
			DLV30A06L					٠				٠				•
			DLV30A06P						٠			•				•
			DLV30A12L	0.4 - 3.0	2.6	5.0	700	•					•			•
			DLV30A12P	[3.5 - 26.6]	2.0	5.0	[1.54]		٠				•			•
	-		DLV30A20L					•						•		•
14		A Series	DLV30A20P						٠					٠		•
17		A Oches	DLV45A06L					•				•				•
			DLV45A06P	2.0 - 4.5	4.5	6.0			٠			•				•
			DLV45A12L	[17.7 - 39.8]	4.5	0.0	870	•					•			•
			DLV45A12P]			[1.92]		•				•			•
			DLV70A06L	3.8 - 7.0	5.0	8.0		٠				٠				•
			DLV70A06P	[33.6 - 62.0]		0.0			٠			•				•

[Brush Motor - DC Power Supply]

	usn Motor - P			(Nn	(m	SC	M	F	P	Щ	Q	Ŧ	۲ ۲	(f Ş		Con	troller			
Page	Outer Appearance	Series	Model	Torque Range (Nm [lbf·in])	Screw Size		Mass (g [lbs])	Lever Start	Push to Start	ESD Protection	Clean Room Type	High Speed	Low Shock	SPC Type available (for screw counter)	Model	Adjustable speed	Outer Appearance			
			DIVERSE		min.	max.				-				_						
			DLV7410A DLV7410HA	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	230	•		•		•	•	•						
10		74004	DLV7420A	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6	[0.51]	•		•			•	•						
16	\bigcap	7400A	DLV7419A	0.02 - 0.2	1.0	2.3		•		٠	•		•		DLC1110	•	1 28			
			DLV7419HA DLV7429A	[0.2 - 1.8] 0.15 - 0.4	1.6	2.6	275 [0.61]	•		•	•	•	•							
			DLV5720	[1.3 - 3.5] 0.02 - 0.2	1.0	2.3	230	•		•			•							
47		5700	DLV5720H DLV5740	[0.2 - 1.8] 0.15 - 0.4			[0.51]	•		•		•	•	DLC03	DLC0350	•	and a state			
17		5700	DLV5740H	[1.3 - 3.5]	1.6	2.6	300	•		•		•	•							
			DLV5750	0.1 - 0.55 [0.9 - 4.9]	1.0	3.0	[0.66]	•		•			•		DLC0950		and the second			
	-		DLV5820 DLV5820H	0.02 - 0.2 [0.2 - 1.8]	1.0	2.3	230	•		•					DLC0250E					-
18		5800	DLV5840	0.15 - 0.4 [1.3 - 3.5]	1.6	2.6	[0.51]	•		•		•				•	1			
			DLV7313	0.03 - 0.15 [0.3 - 1.3]	Upt	o 2.0		•												
			DLV7323	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	350 [0.77]	•												
21		7300	DLV7333	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5		•												
			DLV7325	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	400	•			•									
			DLV7335	0.3 - 1.2 [2.7 - 10.6]	2.0	3.5	[0.88]	•			•									
			DLV7321	0.05 - 0.5 [0.4 - 4.4]	1.0	3.0	350	•		•	•			•	DLC1213A	•				
			DLV7331	0.3 - 1.2 [2.7 - 10.6]		3.5	[0.77]	•		•	•			•						
20		7300-BME/	DLV7319	0.2 - 0.4 [1.8 - 3.5]	2.0			•		•	•									
20		BKE	DLV7329	0.25 - 0.55 [2.2 - 4.9]		3.0	400	•		•	•									
			DLV7339	0.45 - 0.95 [4.0 - 8.4]			[0.88]	•		•	•									
			DLV7349	0.55 - 1.2 [4.9 - 10.6]	3.0	3.5		•		•	•									
			DLV7530-MKE DLV7530-BKE	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	650	•		•										
	_	7500	DLV7540-MKE DLV7540-BKE	1.2 - 2.7 [10.6 - 23.9]	3.5	5.0	[1.43]	•		•							•			
<i></i>			DLV7550-MKE DLV7550-BKE	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	750 [1.65]	•		•										
21			DLV8530-BKE DLV8530-BKE	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	650		•	•					DLC4511	•				
	A.	8500	DLV8540-MKE	1.2 - 2.7 [10.6 - 23.9]	3.5	5.0	[1.43]		•											
			DLV8540-BKE DLV8550-MKE	2.0 - 4.5	4.5	6.0	750 [1.65]		•	•										
			DLV8550-BKE	[17.7 - 39.8]			[1.05]		•	•										

[Brush Motor - AC Power Supply]

	USN MOTOR -			(ਵ ਰ	(m	S	Mass (g [lbs])	Ĕ	P	Щ	Ŧ	(† SI		
Page	Outer Appearance	Series	Model	Torque Range (Nm [lbf·in])		Screw Size		Lever Start	Push to Start	ESD Protection	High Speed	SPC Type available (for screw counter)		
			DLV7020	0.05 - 0.55		max.						-		
				[0.4 - 4.9]	1.0	3.0		•				•		
		7000	DLV7030	0.3 - 1.1 [2.7 - 9.7]		3.5	400 [0.88]	•				•		
			DLV7031	0.3 - 1.0 [2.7 - 8.9]	2.0			•			•	•		
24			DLV8020	0.1 - 0.55 [0.9 - 4.9]	1.0	3.0			•			•		
		8000	DLV8030	0.3 - 1.1 [2.7 - 9.7]		3.5	410 [0.90]			•			•	
			DLV8031	0.3 - 1.0 [2.7 - 0.9]	2.0		[0.00]		•		•	•		
			DLV7120	0.35 - 0.70		3.0		•				•		
			DLV7130	[3.1 - 6.2] 0.5 - 1.7	2.6	4.0		•				•		
			DLV7140	[4.4 - 15.1] 1.2 - 3.0	3.5	5.0	700 [1.54]			-				
		7100/	DLV7221	[10.6 - 26.6] 0.35 - 0.7	3.5	3.0				•				
		7200	DLV7231	[3.1 - 6.2] 0.5 - 1.7	2.6	4.0				-	-		•	
			DLV7241	[4.4 - 15.1] 1.2 - 3.0	3.5	5.0		•				•		
			DLV7251	[10.6 - 26.6] 2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	890 [1.96]	•				•		
25			DLV8120	0.35 - 0.70 [3.1 - 6.2]		3.0			•			•		
	-		DLV8130	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	690 [1.52]		•			•		
			DLV8140	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0			•			•		
		8100/	DLV8150	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	890 [1.96]		•			•		
		8200	DLV8221	0.35 - 0.7 [3.1 - 6.2]		3.0			•		•			
			DLV8231	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	690 [1.52]		•		•	•		
			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	890 [1.96]		•			•		
			DLV7124	0.25 - 0.75 [2.2 - 6.6]	0.0	3.0		•		•				
			DLV7134	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	720 [1.59]	•		•				
			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			•	•				
26		7104/	DLV8134	0.5 - 1.7 [4.4 - 15.1]		4.0	710 [1.57]		•	•				
-0		8104/ 8204	DLV8144	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0			•	•				
	_		DLV8154	2.0 - 4.5 [17.7 - 39.8]	4.5	6.0	910 [2.01]		•	•				
			DLV8224	0.35 - 0.7 [3.1 - 6.2]		3.0			•	•	•			
			DLV8234	0.5 - 1.7 [4.4 - 15.1]	2.6	4.0	710 [1.57]		•	•	•			
			DLV8244	1.2 - 3.0 [10.6 - 26.6]	3.5	5.0			•	•				

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Ъ В	Q	S	M	(Ž Z	(m	S	S	5	Z	Ξ				Coupling
Page	Outer Appearance	Series	Model	Torque Range (Nm [lbf-in])		Screw Size	Mass (g [lbs])	Low Speed	Medium Speed	High Speed	Standard	Flange	M41 Screw	Type of couplings
_			DLV30A06A-N		min.	max.	700							
				-			[1.54]	•			•			
			DLV30A06A-F				760 [1.68]	•				•		Mr. Sec.
			DLV30A06A-M				740 [1.63]	•					•	1 million
			DLV30A12A-N	-			700		-				$\left - \right $	
			DLV30A12A-F	0.4 - 3.0			[1.54] 760		•		•			
				[3.5 - 26.6]	2.6	5.0	[1.68]		•			•		
			DLV30A12A-M				740 [1.63]		•				•	Standard coupling
			DLV30A20A-N	-			700			•	•			3
			DLV30A20A-F	-			[1.54] 760							
				-			[1.68]			•		•		
		A Series	DLV30A20A-M				740 [1.63]			•			•	
33	E.	(for automation)	DLV45A06A-N				780 [1.72]	•			•			A A
			DLV45A06A-F	-			840							ALL I
			DLV45A06A-M	-			[1.85]	•				•		Flange coupling
				2.0 - 4.5	4.5	6.0	820 [1.81]	•					•	
			DLV45A12A-N	[17.7 - 39.8]	7.5	0.0	780 [1.72]		•	• • •				
			DLV45A12A-F	5A12A-F		840		•			•		1 Alexandre	
			DLV45A12A-M	-			[1.85] 820		-			-		
							[1.81]		•				•	and the second
			DLV70A06A-N				780 [1.72]	•			•			SOL
			DLV70A06A-F	3.8 - 7.0	5.0	8.0	840	•				•		M41 screw coupling
			DLV70A06A-M	[33.6 - 62.0]			[1.85] 820					-		
							[1.81]	•					•	

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



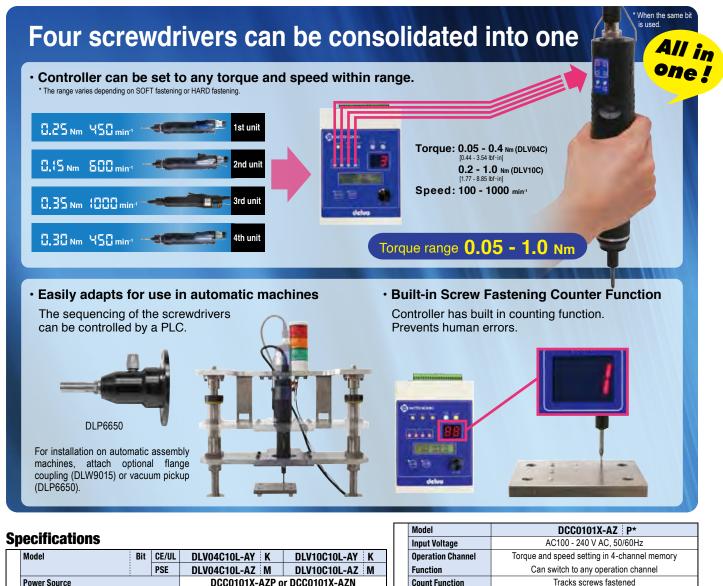
delvo Brushless Type

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



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



	Model		Bit	CE/UL	DLV04C10L-AY K	DLV10C10L-AY K					
				PSE	DLV04C10L-AZ M	DLV10C10L-AZ M					
	Power Sour	ce			DCC0101X-AZP o	r DCC0101X-AZN					
	Torque Adj	ustment			Step	less					
Ē	Torque	SOFT fastening setting (1000 mi	n ⁻¹ setting)	0.05 - 0.4 [0.4 - 3.5]	0.2 - 1.0 [1.8 - 8.9]					
Electric		SOFT fastening setting (⁻¹ setting)	0.05 - 0.35 [0.4 - 3.1]	0.2 - 0.45 [1.8 - 4.0]					
	(Nm [lbf·in])	1]) HARD fastening setting			0.05 - 0.4 [0.4 - 3.5] 0.2 - 1.0 [1.8 - 8.9]						
Screwdriver	Free Speed SOFT fastening setting				600 -	1000					
ev	(min ⁻¹)	HARD fastening settir	ng		100 -	1000					
dri	Screw Size	Machine screw			1.2 - 3.0	1.8 - 4.0					
)er	(mm)	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						

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

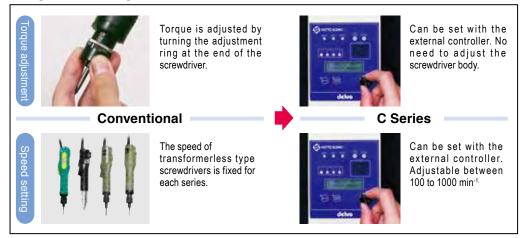
	operation onamier	forque una opeca coung in 1 channel mentery
	Function	Can switch to any operation channel
	Count Function	Tracks screws fastened
		Workpiece detector can be incorporated
_	External Start up	Start up control can be enabled by external input signal
ž	Control Function	Start up control can be enabled by external input signal
Controller	Input Signal Method	Photocoupler input
Þ		(24 V DC drive (5 mA/1 input), respond to PNP output)
	Output Signal	Photocoupler output
	Method	(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")

Jelvo Brushless Type

Comparison of Adjustment Method with Conventional Model



SOFT / HARD Fastening Settings

Two types of fastening mode available subject to the workpiece.

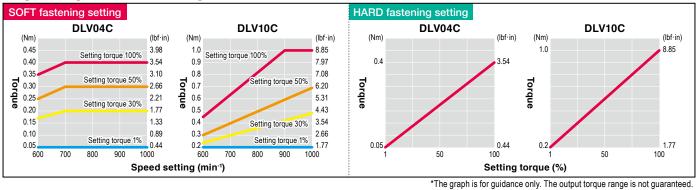
Coordinate the actual workpieces, screws and operating conditions and determine the fastening mode.

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

HARD fastening setting

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

Output Torque and Rotation Speed



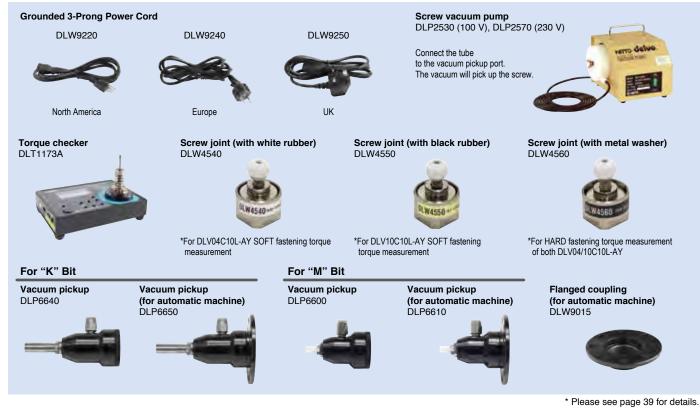
External Signals You can input or output external signals via a signal terminal block.

Terminal No.	Function	Details	I/O
1 (+)	+24 V DC	Built-in service power source (Capacity: Maximum 200 mA)	Service power source
2 (-)	0 V DC	Use in power source for input/output signal common wire, or for the workpiece detection sensor, etc.	Service power source
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	
17	Operation channel 3 (CH3)	Set the channel output signal to ON during operation of settings	Output
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	

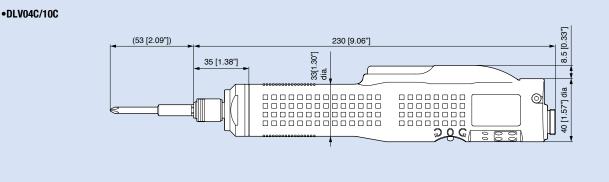
*When PNP output

delvo Brushless Type

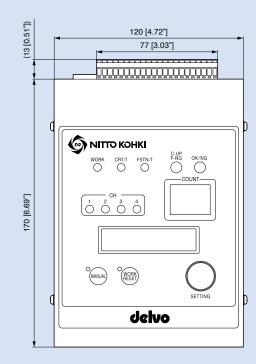
Optional Accessories

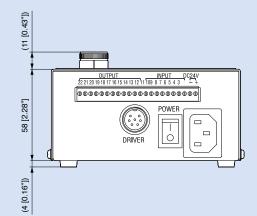


External Dimensions



•DCC0101X







Specifications

opcom	Ications	Low Speed	Standard	High Speed	Low Speed	Standard	Low Speed		9
Model Bit	Lever Start	DLV30S06L-AY K	DLV30S12L-AY K	DLV30S20L-AY K	DLV45S06L-AY K	DLV45S12L-AY K	DLV70S06L-AY K	Bit	
Dit	Push to Start	DLV30S06P-AY K	DLV30S12P-AY K	DLV30S20P-AY K	DLV45S06P-AY K	DLV45S12P-AY K	DLV70S06P-AY K	Type	<u> </u>
Power Sour	rce		1N-AZ or 41N-AZ	DEA0241N-AZ	DEA0151N-AZ or DEA0241N-AZ	DEA02	41N-AZ		unit: mm
Torque Adju	ustment			Step	oless			Plea	ase contact us for 5 mm bit type
Torque	Low Torque Spring*1		0.4 - 1.6 [3.5 - 14.2]	20 451	7 7 20 91	3.8 - 7.0		
(Nm [lbf·in])	High Torque Spring*2		1.2 - 3.0 [10.6 - 26.6	6]	2.0 - 4.5 [1	7.7 - 39.8]	[33.6 - 62.0]		
Free Speed	I (min ⁻¹)		For the deta	ails, see separate se	tting range of speed	and torque.			
Speed Leve	el	L	v1 - Lv9 (Lv1: Min. S	Speed Lv9: Max. Sp	eed decreases in a	step-by-step manne	er)		
Power Cons	sumption (W)			4	4				
Screw Size	Machine Screw		2.6 - 5.0		4.5	6.0	5.0 - 8.0		
(mm)	Tapping Screw		2.5 - 4.0		4.0	- 5.0	4.5 - 6.0		Standard Accessory
Mass	(g [lbs])		710 [1.57]		860	[1.90] (with pistol g	jrip)		Buit-in The power cord is sold separately.
Standard A	ccessories*3	• Bit NK35 × 2 × 7 • Suspension Bail	× 75 • Low Torque • Connection	Spring Cord (DLW9073)	• Bit NK35 × 2 × 7 • Suspension Bail	× 75 • Connection (• Pistol Grip (I		A	Ask us for the required power cord when ordering.

delvo Brushless Type

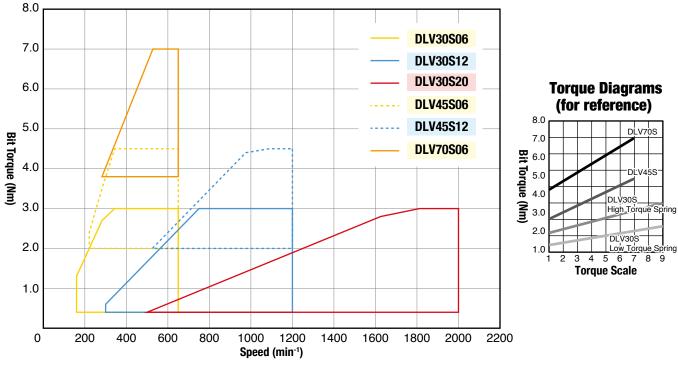
Setting Range of Speed and Torque (for reference only)

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

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

Setting Range for Standard Models

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



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

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	Input		
4	TEHOW	Forced stop signal	input		
5	Brown	OK Signal	Output		
6	Blue	NG Signal	Output		
7	Crow	Gray LINK-OUT			
1	Glay	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 DLW90)90.		

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

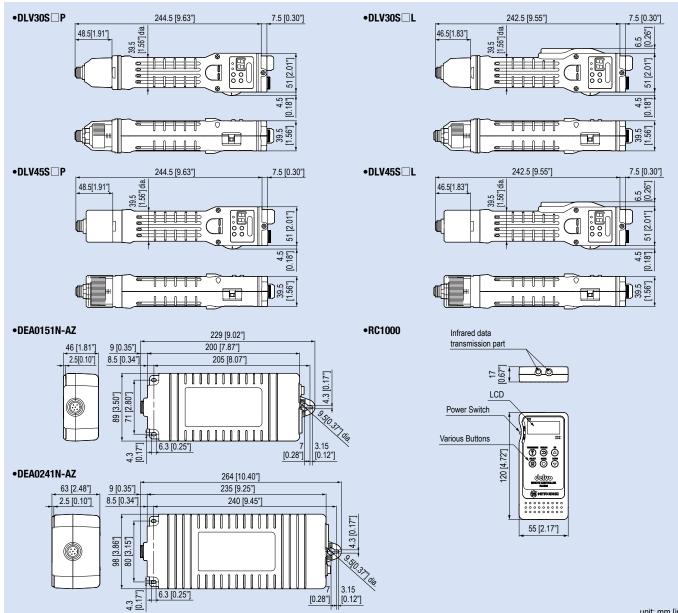


Jelvo Brushless Type

Optional Accessories



External Dimensions



unit: mm [inch]

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 DLW2300 (TD00335) comes with the unit as a standard accessory (DLV45A/70Å)
- · ESD (electrostatic discharge) protection structure

Chaoifiantia

pe

Voltage (DC) Brushless moto Machin

2.6 - 8.0 mm

Э		TIONS	Low Speed	Standard	High Speed	Low Speed	Standard	Low Speed		
	Model Bi	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 Sour	ce	DEA0151N-AZ o	r DEA0241N-AZ	DEA0241N-AZ	DEA0151N-AZ or DEA0241N-AZ	DEA02	241N-AZ		
Ē	Torque Adj	ustment		Stepless						
Electric	Torque	Low Torque Spring*1		0.4 - 1.6 [3.5 - 14.2]		20 4514	10.01	3.8 - 7.0 [33.6 - 62.0]		
	(Nm [lbf·in]) High Torque Spring*2		1.2 - 3.0 [10.6 - 26.6]		2.0 - 4.5 [17.7 - 39.8] 3.8 - 7.0 [33.6				
Screw	Free Speed (min ⁻¹)		650	1200	2000	650	1200	650		
еw	Power Cons	sumption (W)			4	4				
driver	Screw Size	Machine Screw		2.6 - 5.0		4.5 - 6.0 5.0 -				
er	(mm	I) Tapping Screw		2.5 - 4.0		4.0 -	4.5 - 6.0			
	Mass	(g [lbs])		690 [1.52]		840 [1.85] (with Pistol Grip)				
	Standard A	ccessories	• Bit NK35 × 2 × • Suspension Ba		Spring Cord (DLW9073)	Bit NK35 × 2 × 7 × 75 Suspension Bail Connection Cord (DLW90 Pistol Grip (DLW2300ESI				
Bit .			*1: Standard Ac *2: Built-in.	ccessory		-)iagrams (for	reference)		
Typ			<u>15</u>			8.0		704		

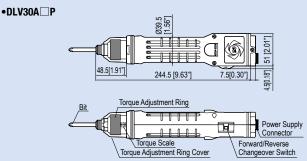
Po	Model		DEA0151N-AZ	DEA0241N-AZ			
Power	Input		100 - 240 V AC, 50/60 Hz, 60 W				
ŝ	Output		40 V DC				
Suppl	Maximum Rated Power (W)		150	240			
۶ly	Mass	(kg)	0.56	0.9			

unit: mm

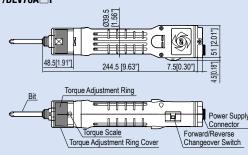
*The power cord is sold separately. Ask us for the required power cord when ordering.

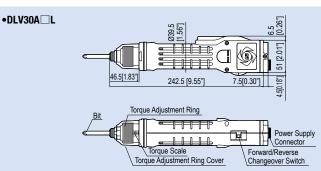
External Dimensions

Please contact us for 5 mm bit type.



•DLV45A P/DLV70A P





7.0

Bit Torque (Nm)

20

1.0

2 3 4 DI V70A

DLV30A High Torque Spring

DLV30A

56

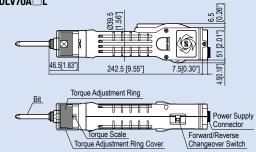
Torque Scale

Low Torque S

orina

8 9

•DLV45A L/DLV70A L



unit: mm [inch]

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



Jelvo Brushless Type

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



Features

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

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

7.0

DLV45

Spring

ring

DLV30 High Torque

DLV30A

3 4 5 6 7 Torque Scale

Low Torque Sp

8 9

6.0 5.0 4.0 3.0

2.0

1.0

2 3

alfi

sformerless (AC) Brushless moto Machine

2.6 - 8.0 mm

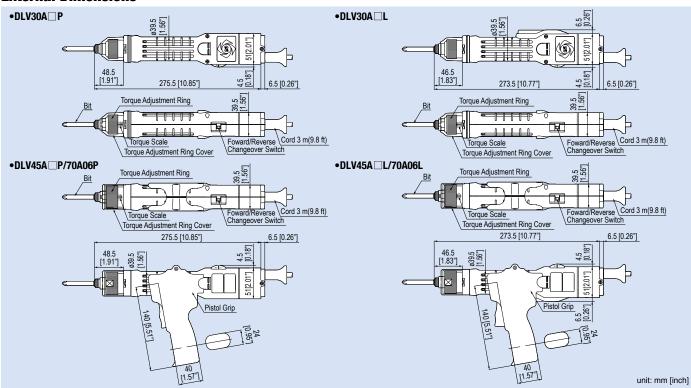
эł	Decitica		Low Speed	Standard	High Speed	Low Speed	Standard	Low Speed			
	Model Bi	Lever Start	DLV30A06L-AB K	DLV30A12L-AB K	DLV30A20L-AB K	DLV45A06L-AB K	DLV45A12L-AB K	DLV70A06L-AB K			
		Push to Start	DLV30A06P-AB K	DLV30A12P-AB K	DLV30A20P-AB K	DLV45A06P-AB K	DLV45A12P-AB K	DLV70A06P-AB K			
ш	Input Voltag	e	230 V AC, 50/60 Hz								
	Torque Adju	stment	Stepless								
lectric	Torque	Low Torque Spring*1		0.4 - 1.6 [3.5 - 14.2]		2.0 - 4.5 [1	7 7 30 81	3.8 - 7.0 [33.6 - 62.0]			
	(Nm [lbf·in]	High Torque Spring*2		1.2 - 3.0 [10.6 - 26.6]		2.0 - 4.5 [1	5.0 - 7.0 [55.0 - 62.0]				
Screwdriver	Free Speed	(min ⁻¹)	650	1200	2000	650	1200	650			
Nd	Power Cons	umption (W)			Appro	ox. 45					
rive	Screw Size	Machine Screw		2.6 - 5.0			6.0	5.0 - 8.0			
Ť	(mm	Tapping Screw		2.5 - 4.0		4.0 -	4.5 - 6.0				
	Mass	(g [lbs])		700 [1.54]		870 [1.92] (with Pistol Grip)					
	Standard Ad	cessories	• Bit No.2 × 7 × 75	Suspension Bail I	ow Torque Spring	• Bit N	o.2 × 7 × 75 • Suspensi	on Bail			
		٩	<u>ש</u> Europe		*1: Standard Acce	ssory					
Bit Type	- <u></u>		Li mm Pe		*2: Built-in.	Torque 8.0	Diagrams (for	reference)			

Please contact us for 5 mm bit type.

Optional Accessories



External Dimensions









LV02/12/16 Series CC D



Features

BKE Models

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

Bit Type

Model

Connection Cable

Bit

	Model	Standard Type	DLV02SL-CKE	DLV12SL-CKE	DLV16SL-CKE			
		ESD Protection Type	DLV02SL-BKE	DLV12SL-BKE	DLV16SL-BKE			
Ē	Starting Met	hod	Lever Start					
Electric	Input Voltag	e		20 - 30 V DC				
	Torque Adju	stment	Stepless					
Screwdriver	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]			
ew	Free Speed	(min ⁻¹)	700 - 1000					
dri	Power Cons	umption (W)	48					
/er	Screw Size	Machine Screw	1.0 - 2.2	1.4 - 3.0	2.2 - 4.0			
	(mm)	Tapping Screw	1.0 - 2.0	1.4 - 2.6	2.0 - 3.0			
	Mass	(g [lbs])	470 [1.04]					

6.35

unit: mm

DLV02

1

1

_

1

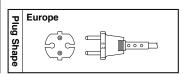
DLV12

1

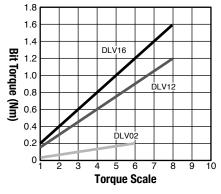
1

1

	Model	DLC16S-WGB			
No.	Input Voltage	100 - 240 V AC, 50/60 Hz			
ntroll	Output Voltage	20 - 30 V DC			
le	Function	Speed Control			
Ĩ	Mass (g [lbs])	380 [0.84]			



Torque Diagrams (for reference)



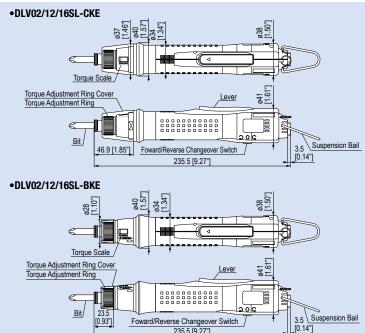
External Dimensions

Standard Accessories

 $\rm No.0 \times 3.8 \times 50$

No.1 × 3.8 × 50

No.2 × 4.5 × 50



235.5 [9.27"]

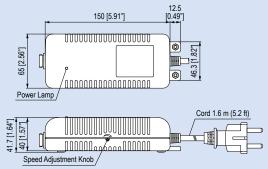
•DLC16S-WGB

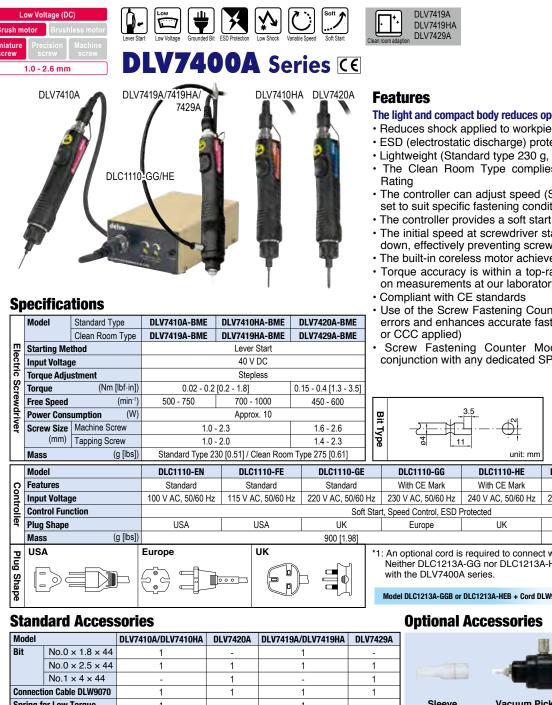
DLV16

1

1

1

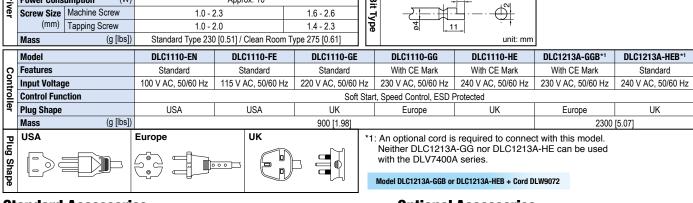




delvo

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
- · 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)
- Use of the Screw Fastening Counter prevents human fastening errors and enhances accurate fastening control (No CE marking
- Screw Fastening Counter Model DLR5640-WN works in conjunction with any dedicated SPC-type electric screwdrivers



Model		DLV7410A/DLV7410HA	410A/DLV7410HA DLV7420A		DLV7429A
Bit	No.0 × 1.8 × 44	1	-	1	-
	No.0 × 2.5 × 44	1	1	1	1
	No.1 × 4 × 44	-	1	-	1
Connecti	ion Cable DLW9070	1	1	1	1
Spring f	or Low Torque	1	-	1	-
Suspens	ion Bail	1	1	1	1
Sleeve fo	or Vacuum DLS2124	-	-	1	1

Ø32 1.26

13 0.51"]



Torque Adjustment

DLW5700 (TD02875)

Ring Cover

Torque Diagrams (for reference)

í **[**3.58

Power Lamp

32"]

<u>82</u> 36[1 2.05

13.5

[0.53]

0000

Shock value

8

Adjustment Ring

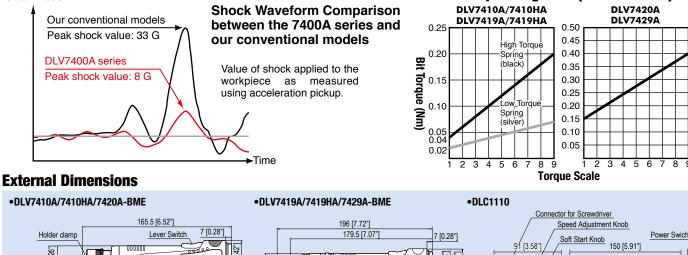
Lock Nut

Coupling

Forward/Reverse

Changeover Switch

Torque



Ø8 [0.32"]

16

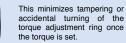


Specifications

	Model		DLV5720	DLV5720H	DLV5740	DLV5740H	DLV5750			
	Starting Met	hod			Lever Start			野	3.5	[−] ^N
	Input Voltage	e		40 V DC		36 V	DC	Type		- 91
	Torque Adjus	stment			Stepless			B	ð I -11- I	'
臣	Torque	(Nm [lbf⋅in])	0.02 - 0.2	[0.2 - 0.18]	0.15 - 0.4 [1.3 - 3.5]	0.1 - 0.55 [0.9 - 4.9]			unit: mm
Electric	Free Speed	(min ⁻¹)	500 - 750	700 - 1000	450 - 600	1200 - 1800	670 - 1000			
	Power Consu	umption (W)		Approx. 10		Appro	x. 35			
) Cr	Screw Size	Machine Screw	1.0	- 2.3	1.6 -	2.6	1.0 - 3.0			
Screwdriver	(mm)	Tapping Screw	1.0 - 2.0 1.4 -			2.3 1.0 - 2.6				
driv	Mass (g [lbs]) 230 [0.51]			230 [0.51]		300 [0	0.66]			
er	Standard Accessories		Bit No.0 × 1.8 × 44 Bit No.0 × 2.5 × 44 Connection Cable (1.5 m)DLW9081 Suspension Bail Spring for Low Torque		• Bit No.0 × 2.5 × 44 • Bit No.1 × 4 × 44					
	Model		DLC0350E	DLC0350F	DLC0350G	DLC0950E	DLC0950G			
	Input Voltage	e	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			
Controller	Plug Shape		USA		UK					
	Mass	(g [lbs])		900 [1.98]		1800	[3.97]			

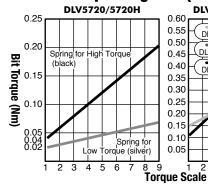
Optional Accessories

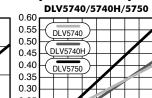




Torque Adjustment Ring Cover DLW5700 (TD02875)

Torque Diagrams (for reference)





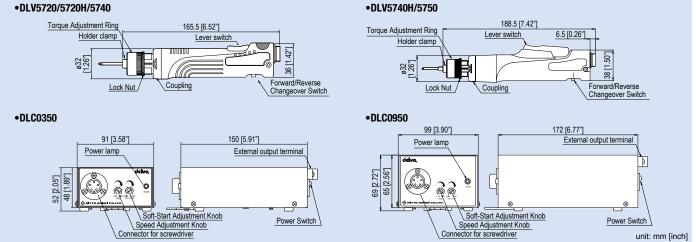
4 5 6

3

7

8

External Dimensions



unit: mm [inch]



DLV5800 Series Non-CE





Features

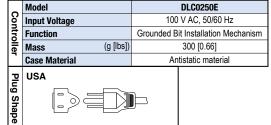
In response to the needs of cell production system, space-saving delvo screwdrivers are released. Controller is designed for emphasis on space-saving size and lightness.

delvo

- 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 Met	thod		Lever Start					
	Input Voltag	e		40 V DC					
	Torque Adju	stment	Stepless						
-	Torque (Nm [lbf·in])		0.02 -	0.02 - 0.2 [0.2 - 1.8]					
ē	Free Speed	(min ⁻¹)	750	1000	600				
Electric	Power Const	umption (W)		Approx. 10					
Screwdriver	Screw Size	Machine Screw		1.0 - 2.3					
re	(mm)	Tapping Screw		1.4 - 2.3					
۸d	Mass	(g [lbs])		230 [0.51]					
ľk	Cord Length	(m)		1.5 (with connector)					
Ť	Grounding B	lit Feature	Equipped as standard						
	Standard Ac	cessories	• Bit No.0 × 1.8 × 44 • Bit No.0 × 2.5 × 44 • Suspension Bail	Bit No.0 × 2.5 × 44 Bit No.1 × 4 × 44 Suspension Bail Connection Cable (1.5 m)					
Bit Type		3.5 	- Č						



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

Optional Accessories

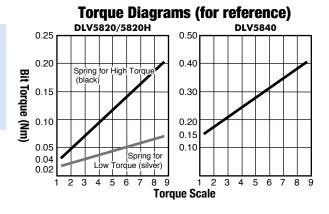


unit: mm

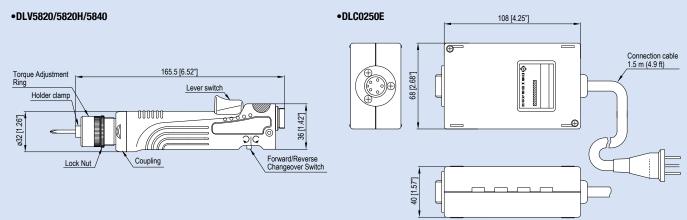


This minimizes tampering or accidental turning of the torque adjustment ring once the torque is set.

Torque Adjustment Ring Cover DLW5700 (TD02875)



External Dimensions



delvo

LV7300 Series CE D



ow Voltage (DC

1.0 - 3.5 mm



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

Clean Room Lise

Specifications

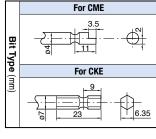
-				Stanuaru		Glean nu	0111 050		
	Model	Bit Shank:ø4 mm	DLV7313-CME	DLV7323-CME	DLV7333-CME	DLV7325-CME*2	DLV7335-CME*2		
		Bit Shank:Hex. 6.35 mm		DLV7323-CKE	DLV7333-CKE	DLV7325-CKE	DLV7335-CKE		
Ele	Starting) Method	Lever Start						
ctri	Input V	oltage			36 V DC				
0	Torque	Adjustment	Stepless						
Scr	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]		
ę	Free Sp	eed (min ⁻¹)	700 - 1000 500 - 700			700 - 1000	500 - 700		
dri	Power (Consumption (W)			Approx. 35				
Per	Screw S	Size Machine Screw	Up to 2.0	1.0 - 3.0	2.0 - 3.5	1.0 - 3.0	2.0 - 3.5		
	1)	nm) Tapping Screw	Up to 1.7	1.2 - 2.6	2.0 - 3.0	1.2 - 2.6	2.0 - 3.0		
	Mass	(g [lbs])		350 [0.77]		400 [0.88]		

*2: Vacuum pump for suction of screw is available as option. See page 31 for details of the vacuum pump

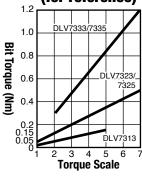
hrehnet2

	Model	Features	Input Voltage	Control Function	Plug Shape	Mass (g [lbs])	
	DLC1213A-EN	Standard	100 V AC, 50/60 Hz		Asia		
ğ	DLC1213A-FE*3	Standard	115 V AC, 50/60 Hz		Asia		
Controlle	DLC1213A-GE	Standard	220 V AC, 50/60 Hz	Soft start,	UK	2300	
lle	DLC1213A-GG	With CE Mark	230 V AC, 50/60 Hz	Speed control	Europe	[5.07]	
7	DLC1213A-GGU	With CE Mark	230 V AC, 50/60 Hz	-	UK		
	DLC1213A-HE	Standard	240 V AC, 50/60 Hz		Without Plug		
	*3: This model is made to order.						
-	A eia		Europe	LIK	•		

00



Torque Diagrams (for reference)



Standard Accessories

olug Shape

Model		DLV7313 -CME	DLV7323 -CME	DLV7333 -CME	DLV7323 / 31 / 33-CKE	DLV7325 -CME	DLV7335 -CME	DLV7325 / 35-CKE
Bit	No.0 × 1.8 × 44	1	-	-	-	-	-	-
	No.0 × 2.5 × 44	1	1	-	-	1	-	-
	No.1 × 3 × 44	-	-	1	-	-	1	-
	No.1 × 4 × 44	-	1	-	-	1	-	-
	No.1 × 7 × 50	-	-	-	1	-	-	-
	No.2 × 4 × 44	-	-	1	-	-	1	-
	No.2 × 4.5 × 50	-	-	-	-	-	-	1
	No.2 × 7 × 50	-	-	-	1	-	-	-
Sleeve	DLS2124	-	-	-	-	1	-	-
	DLS2127	-	-	-	-	1	1	-
	DLS2130	-	-	-	-	1	1	-
	DLS2134	-	-	-	-	-	1	-
	DLS2135	-	-	-	-	-	-	1
Suspens	ion Bail				1			

Optional Accessories

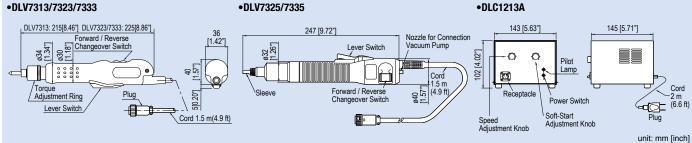


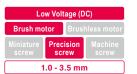
This minimizes tampering or accidental turning of the torque adjustment ring once the toraue is set.

Torque Adjustment Ring Cover for DLV7303 DLW5500 (TD00333)

External Dimensions

•DLV7313/7323/7333





DLV7309



DLC1213A

DLV7300-BME/BKE Series CC

Features

Workpiece-conscious electric screwdrivers

Statistic electricity buildup is prevented to protect workpieces from electrostatic discharge

delvo

 Minimal impact in screw tightening protects workpieces from damaging and enables stable screw tightening

D / I

- · ESD (electrostatic discharge) protection structure
- Meet Class 5*1 or more Clean Room standards
 - *1: Based on Nitto's standard of measurement

Specifications

Sh	JELIIILA	110113		ESD			ESD / Low Shock					
	Model	Bit Shank:ø4 mm	DLV7321-	BME*2	DLV7331-BN	1E*2	DLV731	9-BME*2	DLV7329-BME	DLV7339-BM	E	DLV7349-BME*2
		Bit Shank:Hex. 6.35	mm DLV7321.	BKE	DLV7331-B	KE						
Ē	Starting Me	thod		Lever Start								
Electric	Input Voltag	e		36 V DC								
	Torque Adju	stment						Step	less			
Scr	Torque	(Nm [lb	·in]) 0.05 - 0.5 [0.	4 - 4.4]	0.3 - 1.2 [2.7 -	10.6] 0	.2 - 0.4	[1.8 - 3.5]	0.25 - 0.4 [2.2 - 4	.9] 0.45 - 0.95 [4.0 -	8.4]	0.55 - 1.2 [4.9 - 10.6]
ew	Free Speed	(n	nin ⁻¹) 700 - 10	00	500 - 700			700 -	1000		500 -	700
Screwdriver	Power Cons	umption	(W)					Appro	ox. 35			
/er	Screw Size	Machine Screw	1.0 - 3	0	2.0 - 3.5		2.0 - 3.0			3.0 - 3.5		
	(mm) Tapping Screw		1.2 - 2.	6	2.0 - 3.0		2.0 - 2.6			2.6 - 3.0		
	Mass	(g	lbs])	350 [0.7	77]		400 [0.88]					
Bit		For BME		For BKE	*2	2: These mo	se models are made to order.					
		3.5		9								
pe				╗╫╤╡╴┄								
Type (mm)	04	11	+ 2	23	6.35							
J)												
	Model	Features	Input Voltage	Plug Shape	Control	Mass (g [lbs	<u>])</u>	Europe		UK	USA	4
Š	DLC1213A-E		100 V AC, 50/60 Hz	USA	Grounding,		Plug		₽.			
Controller	DLC1213A-F		115 V AC, 50/60 Hz		Soft Start,	2300	L S	S°2⊑				
ller	DLC1213A-0	GB With CE mark	230 V AC, 50/60 Hz	Europe	Speed Control	[5.07]	Shape	∖) ⊏	╡┟╴┉┉┉┈			╱╺┓ <u></u> _╱ <u>┉</u> ─
· ·	DLC1213A-H	IEB Standard	240 V AC, 50/60 Hz	UK	Speed Control		e					

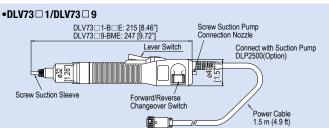
*3: This model is made to order.

Measureme	ent Point	Conventional Product	DLV7300-B 🗌 E	Part	Material
Handle	Static Electricity (V)	350	5	Handle Lever Switch	Synthetic resin with carbon fiber
папше	Surface Resistance (Ω)	more than 1013	104	Power Cable	Anti-static material
Louar Curitab	Static Electricity (V)	350	2	* Measurement conditions	(Temperature: 22 °C Humidity: 66 %)
Lever Switch	Surface Resistance (Ω)	more than 1013	104		the measurement equipment and mea
Forward / Reverse Switch	Static Electricity (V)	25	2		ive times using Ansel Edmont electronic
Power Cable	Static Electricity (V)	110	5		the screwdriver. • Measure each part on nt manufactured by Shishido electrostation
Power Gable	Surface Resistance (Ω)	more than 1013	10 ¹⁰	(2)Surface resistance · M	easure using Simco Japan surface resi

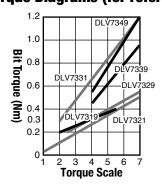
Standard Accessories

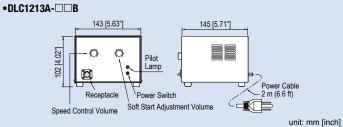
Model	Model		DLV7339/49 -BME	DLV7321 -BME	DLV7331 -BME	DLV7321/31 -BKE
Bit	No.0 × 2.5 × 44	1	-	1	-	-
	No.1 × 3 × 44	-	1	-	1	-
	No.1 × 4 × 44	1	-	1	-	-
	No.1 × 7 × 50	-	-	-	-	1
	No.2 × 4 × 44	-	1	-	1	-
	No.2 × 7 × 50	-	-	-	-	1
Sleeve	DLS2124	1	-	-	-	-
	DLS2127	1	1	-	-	-
	DLS2130	1	1	-	-	-
	DLS2134	-	1	-	-	-
Suspens	ion Bail			1		

External Dimensions



Torque Diagrams (for reference)







Features

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

delvo

- 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)

alfi

Low Voltage (DC

2	Jeciti	cations	Stan	dard	High Torque	Stan	dard	High Torque		
	Model	Standard Type	DLV7530-MKE	DLV7540-MKE	DLV7550-MKE	DLV8530-MKE	DLV8540-MKE	DLV8550-MKE		
m		ESD Protection Type	DLV7530-BKE	DLV7540-BKE	DLV7550-BKE	DLV8530-BKE	DLV8540-BKE	DLV8550-BKE		
lect	Starting	Method		Lever Start			Push to Start			
tric	Input Vo	ltage		59 V DC						
ŝ	Torque	Adjustment		Stepless						
crev	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]		
vdr	Free Spe	ed (min ⁻¹)	1100	700	500	1100	700	500		
river	Screw S	ize 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		
¥	(n	m) 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]		

BKE Models

Bit Type	6.35
	unit: mm

Measureme	nt Point	Conventional Product	DLV7500/8500-BKE	Part	Material	
Handle	Static Electricity (V)	350	5	Handle Lever Switch	Synthetic resin with car	
nanue	Surface Resistance (Ω)	more than 1013	10 ⁴	Power Cable	Anti-static mater	
Lauran Cruittala	Static Electricity (V)	350	2	* Measurement conditions (Temperature: 22 °C Hu (1)Static electricity • Earth the measurement equip		
Lever Switch	Surface Resistance (Ω)	more than 1013	104			
Forward / Reverse Switch	Static Electricity (V)	25	2	Grip the screwdriver five times using Ansel Turn on the switch of the screwdriver. • Me		
Osmastian Oshla	Static Electricity (V)	110	5		int manufactured by Shishid	
Connection Cable	Surface Posistance (O)	more then 1013	1010	(2)Surfaco resistanco • M	loasuro using Simco, Japan	

1010

more than 1013

Synthetic resin with carbon liber				
Power Cable	Anti-static material			
* Measurement conditions (Temperature: 22 °C Humidity: 66 %)				

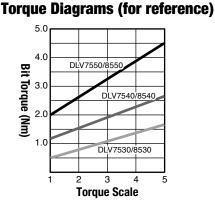
equipment and measuring person. sel Edmont electronic control glove.

 Measure each part of the screwdriver using electronic by Shishido electrostatic Ltd. (2)Surface resistance · Measure using Simco Japan surface resistivity measurement equipment.

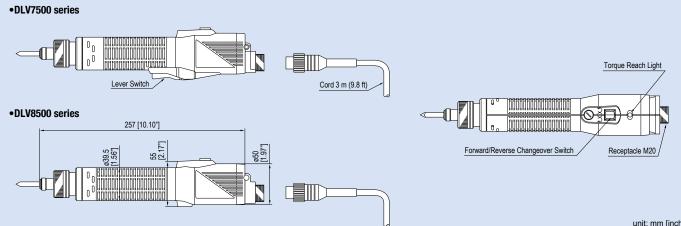
Standard Accessories

Model		DLV7530 / 7540 / 8530 / 8540	DLV7550 / 8550			
Bit No.1 × 7 × 75		1	-			
	No.2 × 7 × 75	1	1			
	No.3 × 7 × 50	-	1			
Spare Ca	arbon Brush	2				
Connect	ion Cable	1				
Suspens	ion Bail	1				

Surface Resistance (Ω)



External Dimensions



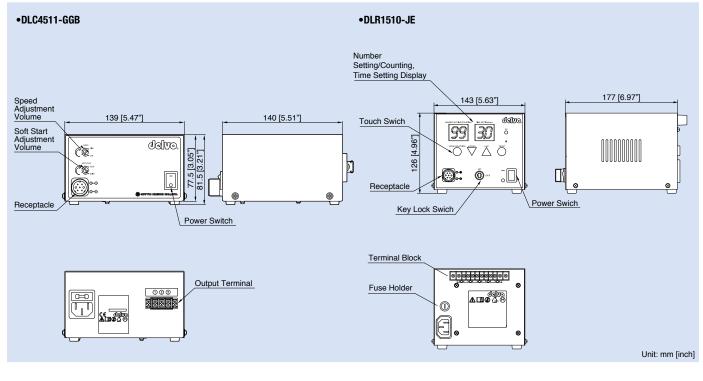




Specifications

Model		DLC4511-GGB	DLR1510-JE
Function Control Input Voltage Mass		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
o Input Voltage		230 V AC	, 50/60 Hz
Mass	(g [lbs])	3500 [7.72]	5100 [11.24]
Plug Shape		Europe	

External Dimensions



MEMO



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)

noifia atia

21	Decitica	tions		Stan	dard		High S	Speed
	Model	100 V AC Input	DLV7020-EMN	DLV7030-EMN	DLV8020-EMN	DLV8030-EMN	DLV7031-EMN	DLV8031-EMN
m		115 V AC Input	DLV7020-FME*1	DLV7030-FME*1	DLV8020-FME*1	DLV8030-FME*1		
Electric	Starting Met	thod	Lever	Start	Push t	o Start	Lever Start	Push to Start
Ť.	Torque Adju	stment			Step	less		
	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]
Screwdriver	Free Speed (min ⁻¹)		900	650	900 650		1200	
٥d	Power Cons	umption (W)		Appro	ox. 25		Approx. 30	
rive	Screw Size	Machine Screw	1.0 - 3.0	2.0 - 3.5	1.0 - 3.0	2.0 - 3.5	2.0 -	- 3.0
Ť	(mm)	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					*1: These mod	els are made to order.		

Standard Accessories

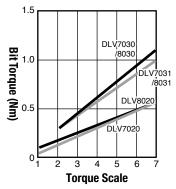
Model		DLV7020 / 8020	DLV7030 / 8030 / 7031 / 8031
Bit	No.0 × 2.5 × 44	1	-
	No.1 × 3 × 44	-	1
	No.1 × 4 × 44	1	-
	No.2 × 4 × 44	-	1
Spare Ca	arbon Brush		1

Optional Accessories

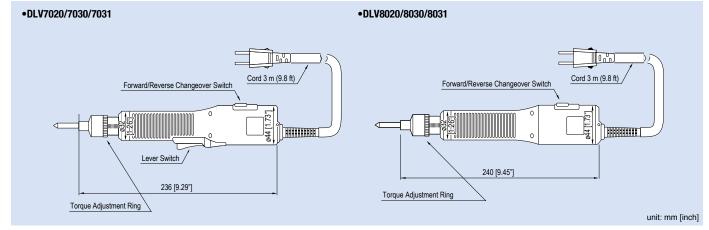


This minimizes tampering or accidental turning of the torque adjustment ring once the torque is set. Torque Adjustment Ring Cover DLW5300 (TD00332)

Torque Diagrams (for reference)



External Dimensions





Per Start Push to Start Transformeriess



DLV7100/7200/8100/8200 Series Non-CE



Clandar

Features

Long Time Selling, Reliable, and High Performance

Ctondord

- Transformerless space saving model built in automatic stop circuit
- $\boldsymbol{\cdot}$ 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

Link Torra

Specifications

-r		Jacono		Standard		1	lign Spee	a	High Torque		Standard		Hign Torque		lign Speec	1	High Torque
		Bit Shank: Hex. 5 mm (0.2")	DLV7120- FJE	DLV7130- FJE	DLV7140- FJE	DLV7221- FJE	DLV7231- FJE	DLV7241- FJE		DLV8120- FJE	DLV8130- FJE	DLV8140- FJE	DLV8150- FJE	DLV8221- FJE	DLV8231- FJE	DLV8241- FJE	
		Bit Shank: Hex. 6.35 mm (1/4")	DLV7120- FKE	DLV7130- FKE	DLV7140- FKE	DLV7221- FKE	DLV7231- FKE	DLV7241- FKE	DLV7251- FKE	DLV8120- FKE	DLV8130- FKE	DLV8140- FKE	DLV8150- FKE	DLV8221- FKE	DLV8231- FKE	DLV8241- FKE	DLV8251- FKE
Ele	Starting	Method				Lever Start							Push t	o Start			
etric	Input Vo	ltage							115	V AC, 50/6	0 Hz						
ö	Torque	Adjustment								Stepless							
ŝ	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
Screwdriv		[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]
dri	Free Sp	ed (min ⁻¹)	900	900	600	1800	1800	1100	700	900	900	600	400	1800	1800	1100	700
èr	Power C	onsumption (W)	Approx. 35 Approx. 45			Approx. 35 Approx. 45											
	Screw S	ize 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
	(n	nm) 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
	Mass	(g [lbs])			700 [[1.54]			890 [1.96]		690 [1.52]		890 [1.96]		690 [1.52]		890 [1.96]
Bit		For FJE			For FKE		P	Asia				* All mod	lels of FJ	E / FKE s	eries are	made to	order.
t Type (mm)	06		•	<u></u>	9 23		Plug Shape			00	_						

Illink Te

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Linh Cnood

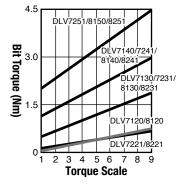
Standard Accessories

Model		FJE	FKE except DLV7251 / 8150 / 8251-FKE	DLV7251 / 8150 / 8251-FKE
Bit	No.1 × 6 × 70	1	-	-
	No.1 × 7 × 75	-	1	-
	No.2 × 6 × 70	1	-	-
	No.2 × 7 × 75	-	1	1
	No.3 × 7 × 50	-	-	1
Spare Carbon Brush			2	
Suspension Bail			1	

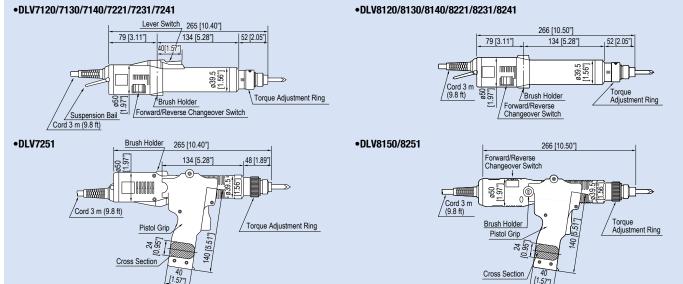
Torque Diagrams (for reference)

Link Croad

Illah Tamura



External Dimensions







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

delvo

- 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

Chaoifiantia

Эh	Decifica	10115			Stan	dard			High Torque		High Speed	
	Model	Plug Shape: USA	DLV7124- MKE	DLV7134- MKE	DLV7144- MKE	DLV8124- MKE	DLV8134- MKE	DLV8144- MKE	DLV8154- MKE	DLV8224- MKE	DLV8234- MKE	DLV8244- MKE
		Plug Shape: UK	DLV7124- MKH	DLV7134- MKH	DLV7144- MKH	DLV8124- MKH	DLV8134- MKH	DLV8144- MKH	DLV8154- MKH	DLV8224- MKH	DLV8234- MKH	DLV8244- MKH
l	Starting Met	hod		Lever Start					Push to Start			
lec	Input Voltag	e					230 V AC	, 50/60 Hz				
Electric	Torque Adju	stment					Step	oless				
	Torque	(Nm)	0.25 - 0.75	0.5 - 1.7	1.2 - 3.0	0.25 - 0.75	0.5 - 1.7	1.2 - 3.0	2.0 - 4.5	0.35 - 0.7	0.5 - 1.7	1.2 - 3.0
Screwdriver		[lbf·in]	[2.2 - 6.6]	[4.4 - 15.1]	[10.6 - 26.6]	[2.2 - 6.6]	[4.4 - 15.1]	[10.6 - 26.6]	[17.7 - 39.8]	[3.1 - 6.2]	[4.4 - 15.1]	[10.6 - 26.6]
٥d	Free Speed (min ⁻¹)		9	00	600	90	00	600	400	2000	1800	1100
rive	Power Const	umption (W)			3	5				4	5	
Ť	Screw Size	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
	(mm)	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]	
				F	or MKE		For MKH					
Bit Type	- <u></u>	23	Flug Shape	USA		ик]]						

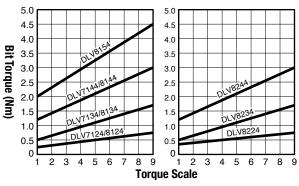
Please contact us for 5 mm bit type.

Standard Accessories

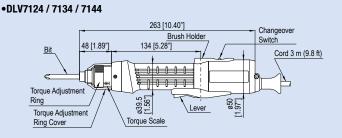
Model		MKE/MKH	8154-MKE/MKH	
Bit	No.1 × 7 × 75	1	-	
	No.2 × 7 × 75	1	1	
	No.3 × 7 × 50	-	1	
Spare Ca	arbon Brush	2		
Suspens	ion Bail	1		

unit: mm

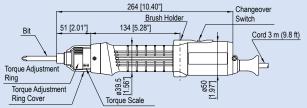
Torque Diagrams (for reference)



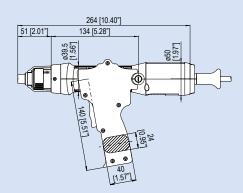
External Dimensions



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



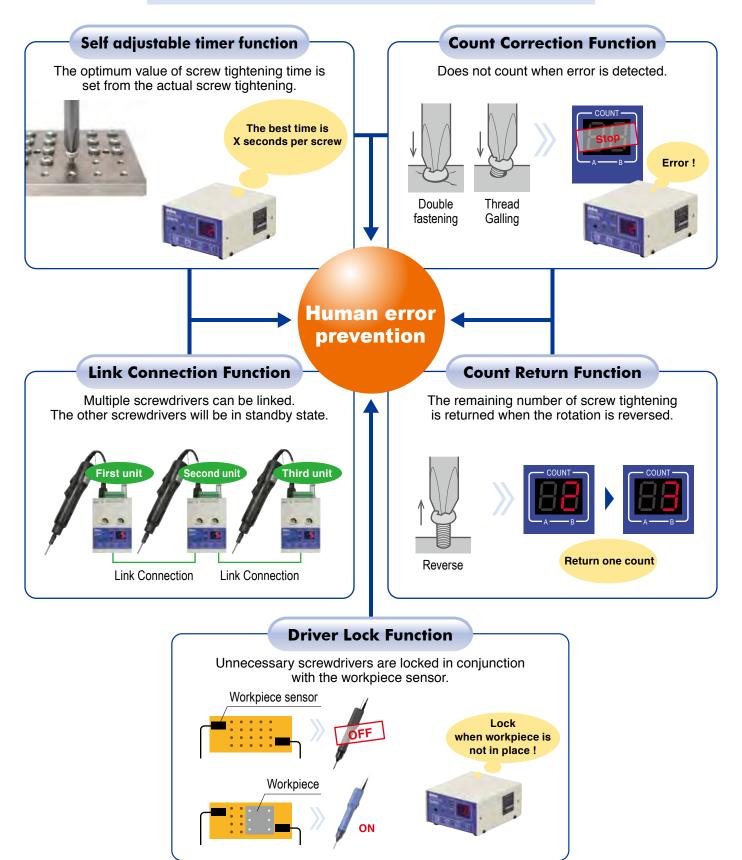
•DLV8154



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.



Screw Fastening Counter

DLR5640-WN

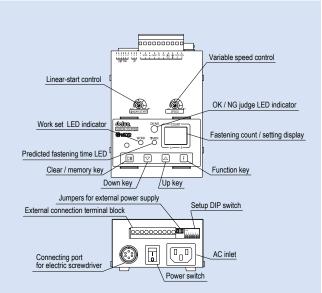
- Functions of the controller and counter are integrated into a single unit.
- Equipped with Linear Start Function that gradually increases the rotation speed at start.
- Universal power input for use anywhere in the world.

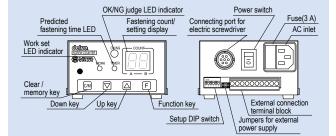


DLR5040A-WE

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

Front and Rear Panels



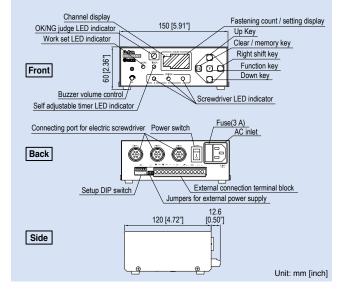




DLR5340-WE

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





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



Screw Fastening Counter



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

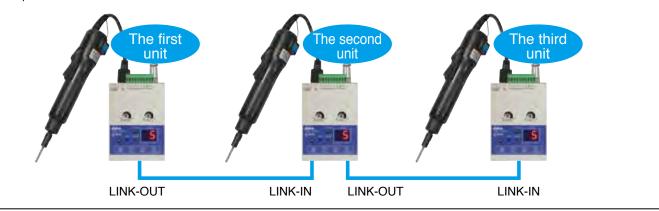
Specifications

Model	DLR5640-WN	USA USA
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.	Ō
Work Detection Function	Yes (1 terminal) / No	1
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	Construction 5
OK Buzzer	ON(1) / ON(2) / ON(3) / OFF	The Desiries Cond
Count Return Function	ON / OFF	0
NG Judge Timing	WORK SET / DRIVER ON	0.0.
Automatic / Manual OK Judge	AUTO / MANUAL	the second second
Screwdriver Lock Function	ON / OFF	
Multiple Link	Up to 10 counters can be connected.	THE REPORT OF
External Inputs on Terminal Block	SENSOR / RESET / LINK-IN / PARTS A / PARTS B	
External Outputs on Terminal Block	OK / NG / LINK-OUT	description of
Parameter Memory	Parameters stored in internal nonvolatile memory	and the second second
Screwdriver Control	SPEED / LINEAR START	
Input Voltage	100 - 240 V AC, 50/60 Hz	
Screwdriver Power Supply	33 V DC, 1.5 A	Example of use together with a
External Dimensions (mm [inch])	W101 x D140 x H57 [W3.98" x D5.51" x H2.24"]	sensor available in the market
Mass (g [lbs])	800 [1.76]	
Accessories	2 m Power cord with USA plug Suspension bail (2 pcs.)]

The example of installation

LINK Function (Commom 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





DLV7321/7331-SPC

DLV7410A/7410HA/7420A-SPC



DLR5640-WN

Specifications

Model		DLV7410A-SPC	DLV7410HA-SPC	DLV7420A-SPC	DLV7321-SPC	DLV7331-SPC		
Starting Metho	d			Lever Start				
Torque Adjustn	nent			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 Consum	ption (W)		Approx. 10		Appr	ox. 35		
Screw Size	Machine Screw	1.0	1.0 - 2.3		1.0 - 3.0	2.0 - 3.5		
(mm)	Tapping Screw	1.0	- 2.0	1.4 - 2.3	1.2 - 2.6	2.0 - 3.0		
Electrostatic C	ountermeasure			Complied with EN100015-1				
Mass	(g [lbs])		230 [0.51]	230 [0.51] 350 [0.77]				
Cord Length	(m)			1.5 (with connector)				
Grounding Bit I	Feature			Equipped as standard				
Bit Type								

Combinations with Electric Screwdrivers

unit: mm

Screwdriver Model	Connection	Remarks
DLV7410A / 7410HA / 7420A-SPC	The cord comes with screwdriver	Occurrent in the term for the second for the second s
DLV7321 / 7331-SPC	Direct connection to power source	Screwdriver for the screw fastening counter only
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)







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.

DLR5340-WE Non-CE



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



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 × D120 × H60 [W5.91" × D4.72" × H2.36"]
Mass (g [lbs])	620 [1.37]

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

delvo

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

Small









Cnoolfi	ontinno								
Shecui	cations	Miniature Screw (1.0 - 3.5 mm)							
Model	Lever Start	DLV7020-SPC	DLV7030-SPC	DLV7031-SPC	-	-	-		
	Push to Start	-	-	-	DLV8020-SPC	DLV8030-SPC	DLV8031-SPC		
Input Voltag	le	100 V AC, 50/60 Hz							
Torque Adju	stment	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 - 0.9]		
Free Speed (min ⁻¹)		900	650	1200	900	650	1200		
Power Cons	umption (W)	Appro	ox. 25	Approx. 30	Appr	x. 25 Approx. 30			
Screw Size	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		
(mm)	Tapping Screw	1.2 - 2.6	2.0	- 3.0 1.2 - 2.6		2.0 - 3.0			
Bit Type				1	Å				
Mass	(g [lbs])		380 [0.84]			390 [0.86]			
Cord Length	n (m)	3 (with connector)							
Bit Groundi	ng	Equipped as standard							
				Machine Screv	v(2.6 - 8.0 mm)				
Madal	Louise Chart		DI V7100 0		· /	V7001 CDC			

			N	lachine Screw(2.6 - 8.0 mn	n)			
Model	Lever Start	DLV7120-SPC	DLV7130-SPC	DLV7140-SPC	DLV7231-SPC	DLV7241-SPC		
	Push to Start	DLV8120-SPC	DLV8130-SPC	DLV8140-SPC	DLV8231-SPC	DLV8241-SPC		
Input Voltag	je		100 V AC, 50/60 Hz *1					
Torque Adju	istment			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)	10	00	700	2000 1200			
Power Cons	sumption (W)		35		45			
Screw Size	Machine Screw	2.6 - 3.0	2.6 - 4.0	3.5 - 5.0	2.6 - 4.0	3.5 - 5.0		
(mm)	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] (8	3100series)	710 [1.57] (7200series)	/ 670 [1.48] (8200series)		
Cord Lengt	n (m)		3 (with connector)					
Bit Groundi	ng			Equipped as standard				

	3					
		Machine Screv	u(26-80 mm)		A	
Model	Lever Start	-	DLV7251-SPC		3.5	
	Push to Start	DLV8150-SPC	DLV8251-SPC			
Input Voltag	je	100 V AC,	100 V AC, 50/60 Hz *1		8 11	
Torque Adju	istment	Step	less		D	
Torque	(Nm [lbf⋅in])	2.0 - 4.5 [1	7.7 - 39.8]			
Free Speed	(min ⁻¹)	450	700	Type		
Power Cons	sumption (W)	45				
Screw Size	Machine Screw	4.5	4.5 - 6.0			
(mm)	Tapping Screw	4.0	- 5.0]	С	
Bit Type		(2		<u> -9-</u>	
Mass	(g [lbs])	810 [1.79]				
Cord Lengt	n (m)	3 (with connector)			<u>6.35</u>	
Bit Groundi	ng	Equipped a	as standard			

				Machine Screw	/(2.6 - 8.0 mm)						
Model	Lever Start	DLV30A06L-SPC	DLV30A12L-SPC	DLV30A20L-SPC	DLV45A06L-SPC	DLV45A12L-SPC	DLV70A06L-SPC				
	Push to Start	DLV30A06P-SPC	DLV30A12P-SPC	DLV30A20P-SPC	DLV45A06P-SPC	DLV45A12P-SPC	DLV70A06P-SPC				
Input Voltag	le			100 V AC,	50/60 Hz *1						
Torque Adju	stment			Step	less						
Torque	(Nm [lbf·in])	f·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]				7.7 - 39.8]	3.8 - 7.0 [33.6 - 62.0]				
Free Speed	(min ⁻¹)	650	1200	2000	650	1200	650				
Power Cons	umption (W)			4	5						
Screw Size	Machine Screw		2.6 - 5.0		4.5	5.0 - 8.0					
(mm)	Tapping Screw		2.5 - 4.0		4.0	5.0	4.5 - 6.0				
Bit Type		B *2				С					
Mass	Mass (g [lbs]) 700 [1.54]					870 [1.92] with pistol grip					
Cord Length	n (m)	3 (with connector)									
Bit Groundi	ng	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.



Jelvo Brushless Type

A Series (For Automation) Model DLV30A/45A/70A Non-CE



nerless (AC)

2.6 - 8.0 mm

Features

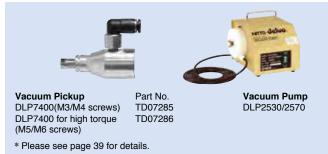
For automatic assembly robot

- Three series of screwdrivers can be mounted on the XY robot
- · Automatic screw tightening achieves a labor-saving or unattended process
- · Long-life brushless motors are incorporated in the electric screwdrivers
- · Standard coupling, flange coupling, and left-hand thread coupling are available for installation
- The electric screwdriver generates the torque-up signal
- The screwdrivers can be connected to a sequencer to control starting, forward rotation, and reverse rotation
- · An electrical noise preventive measure is employed to avoid malfunction. Each input/output signal is insulated from a screwdriver's internal circuit by a photocoupler.

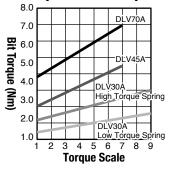
Specifications

Sh	Jecinications		Low Speed	Standard	High Speed	Low Speed Standard		Low Speed	
	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 Volta	ge		·	100 V AC,	, 50/60 Hz		·	
	Torque	Low Torque Spring*1		0.4 - 1.6 [3.5 - 14.2]			7 7 20 01		
m	(Nm [lbf·in])	High Torque Spring*2	1.2 - 3.0 [10.6 - 26.6]			2.0 - 4.5 [1	1.1 - 39.0]	3.8 - 7.0 [33.6 - 62.0]	
lec	Free Speed	(min ⁻¹)	650	1200	2000	650	1200	650	
Electric	Screw	Machine Screw		2.6 - 5.0		4.5 -	5.0 - 8.0		
	Size (mm)	Tapping Screw		2.5 - 4.0		4.0 -	4.5 - 6.0		
Screwdriver	Mass	Standard coupling	700 [1.54]			780 [1.72]			
٥v	(g [lbs])	Coupling with flange	760 [1.68]				840 [1.85]		
İVe		Coupling with M41 screw		740 [1.63]			820 [1.81]		
Ť	Power Con	sumption (W)	45						
	Starting M	ethod	External input signal						
	Input signa	al		Sta	Start signal / Forward signal / Reverse signal (5 - 24 V DC)				
	Output sig	nal		Toro	que-up signal (Voltage unde	nder 30 V DC and current 20 mA)			
	Standard A	Accessories		Bit NK31 × 2 × 6 × 70: 1 p Low torque spring: 1 pc.	с.	• Bit NK35 × 2 × 7 × 75: 1 pc.			
Bit Type (mm)			*3		*1: Standard Accessor *2: Built-in *3: DLV30A is availabl		e with 6.35 mm hex. s	hank bits.	

Optional Accessories



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					

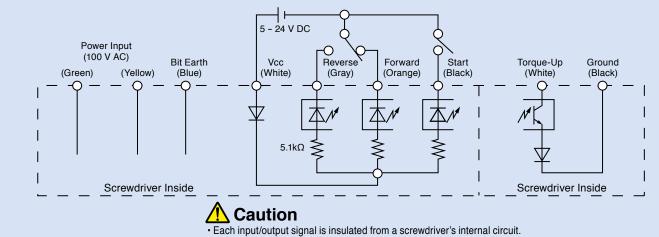
Output Signal Cable

Color	Details					
White	Torque-up signal output					
Black	Ground					

Power input voltage: 100 V AC

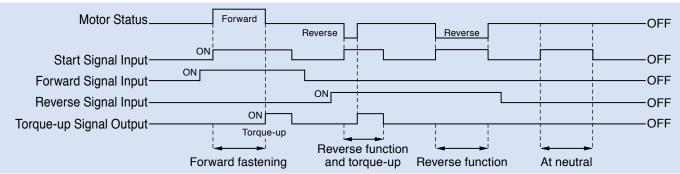
delvo Brushless Type

Power Input/Output Signal Schematic Diagram



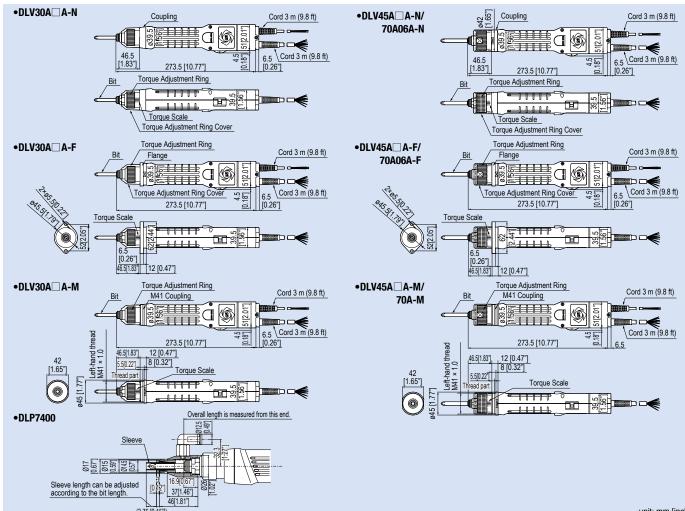
• Input signal rated range: Use in the range of voltage between 5 - 24 V DC (current 0.5 - 5 mA DC) • Torque-up signal output maximum rating: Use in the range of voltage under 30 V DC and current 20 mA DC.

Operation Timing Chart



External Dimensions

(3.75 [0.15"])







DLV3100/3300 Series (For Automation) Non-CE

DLV3100 series DLV3300 series



Features

- A Labor-Saving "delvo" for Automatic Assembly Robot
- · Vibration-proof and shock-proof for long continuous screw tightening

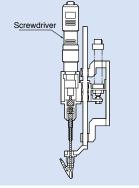
delvo

- 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.

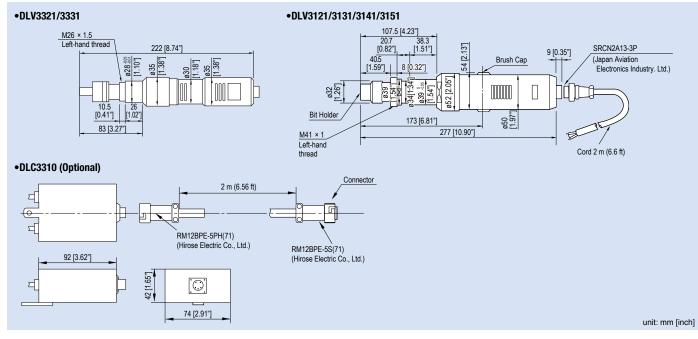
Specifications

Sp	pecifica	tions		For Precisi	on Screws	For Machine Screws				
	Model		DLV3	321-CMN	DLV3331-CMN	DLV3121-EJN*1	DLV3131-EJN*1	DLV3141-EJN*1	DLV3151-EJN*1	
	Input Voltag	je	3	6 V DC (supplie	d from controller)		100 V AC	, 50/60 Hz		
Electric	Torque Adju	stment				Stepless				
trio	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]	2.0 - 4.5 [17.7 - 39.8]	
	Free Speed	(min ⁻¹)		900	600	90	00	600	450	
Screwdriver	Power Cons					Approx. 35 A				
N dr	Screw Size	Machine Screw	1.	0 - 3.0	2.0 - 3.5	2.3 - 2.6	2.6 - 3.5	3.5 - 5.0	4.5 - 6.0	
İve	(mm)	Tapping Screw	1.	2 - 2.6	2.0 - 3.0	2.3 - 3.0	2.5 - 3.5	3.0 - 4.0	4.0 - 5.0	
Ä	Mass (g [lbs]) 400 [0.88]				0.88]	900 [1.98]				
	Standard Ac	cessories				Cable (2 m): 1 pc. Spare Carbon Brush: 2 pc.				
₿		For CMN			For EJN	* The 2 m cord exclusively for DLV3321/3331 comes with DLC3310 as a standard accessory.				
t Type (mm)			90		Installation E	xample				
	Model			DIC	3310	1				
Controller	Input Voltag	le			50/60 Hz				140	
lro	Output Voltage Mass (g [lbs])				/ DC	Screwdriver	i.			
ler				360 [0.79]					
						Le le le le le le le le le le le le le le	╡║┟┿╖		and the second s	





External Dimensions



DLT1173A/1673A/1973A Series CC

Torque Checker



Features

Maintaining high assembly guality with ease

- · Measured data is stored even after the power is turned off, preventing any data loss
- Energy saving type with AUTO POWER OFF function (Power is • automatically turned off when left unused for 10 minutes)
- A program designed for uploading the data stored in the "delvo" torque checkers to a computer is available to download free from the NITTO KOHKI website:

www.nitto-kohki.co.jp/e/prd/e-dl/delvo.html



Specifications

Model	DLT1173A	DLT1673A	DLT1973A	D Asia	Europe		
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]	면 Asia			
Calibration Precision	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Within \pm 0.5% (Full Scale)				
Display	4-digit digital display (Single-line) Data sampling: 1000 times/se	c. Display rate: 12 times/sec.] [0]			
Measuring Unit		kgf • cm, Nm, lbf • in (selectable)					
Data Memory		800 pieces of data		Selection (of Torque Chec	ker	
Measuring Direction		CW and CCW		DLT1173A	DLT1673A	DLT1973A	
Measuring Mode		3 modes: PD-TR-PP	DLV3300*2	DLV7100/7200/	DLV45A/70A		
Auto Power Off	Pow	ver off if left untouched for 10 minu	DLV5700	8100/8200	DLV45S/70S		
External Output		r USB output Mitsutoyo Digi	DLV5800	DLV7500/8500	DLV45A/70A		
Analog Output	Approx. 1.5 V max.	Approx. 1.0 V max.	Approx. 1.1 V max.	DLV7300	DLV3100*3	(automation)	
	No zero offset; iden	tical waveforms produced in PP,	PD, and TR modes	DLV7000/8000	DLV30A/45A	. ,	
Continuous Operation Time		20 hours		DLV7400A	DLV30S/45S		
External Dimensions (mm)	W160 × D	-	W200 × D112 × H48.5	DLV02/12	DLV16		
[inch]		33" × H1.85"]	[W7.9" × D4.41" × H1.89"]	DLV04C/10C	DLV7104/8104/8204		
Mass (g [lbs])	1100		1400 [3.09]		DLV30A/45A		
Rechargeable Battery		Nickel metal hydride battery			(automation)		
Charger Type		DLE1833A		*2·A reversible	screwdriver is require	d to loosen	
Input Voltage for Charger	Charger 100 - 240 V AC, 50/60 Hz				g joint.		
Charging Time	Charging Time 4 hours				*3: A reversible screwdriver is required to loosen		
Standard Accessories	Screw Joint (DLW4430)	Bit Joint (DLW4360) Spring for Joint (DLW4660)	Soft Joint (DLW4000)	the measurin	g joint. Screw joint is r	equired.	

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]	0	-	_		
	DLW4340	TD03306	OD 4 mm [0.16"] type	0.15 - 1.5 Nm [1.3 - 13.3 lbf·in]	0	0	_		
	DLW4350	TD03307	Hex 5 [0.2"] and Hex 6.35 [1/4"] types	0.15 - 1.5 Nm [1.3 - 13.3 lbf·in]	0	0	_		
	DLW4360	TD03308	Hex 5 [0.2"] and Hex 6.35 [1/4"] types	0.15 - 6.5 Nm [1.3 - 57.5 lbf·in]	-	0	_		
Screw Joint	DLW4430	TD03309	screw type (Bit size No.2)	0.15 - 1.5 Nm [1.3 - 13.3 lbf·in]	0	0	-		
	DLW4530*1	TD03310	screw type (Bit size No.2)	0.15 - 5 Nm [1.3 - 44.3 lbf·in]	-	0	_		
Soft Joint	DLW4000	TD04123	Hex 13 [0.51"] type	4.0. 10.0 Nm [25.4. 106.0 lbf in]	-	0	0		
Hard Joint	DLW4040	TD04124	(Hex. head bolt)	4.0 - 12.0 Nm [35.4 - 106.2 lbf·in]	_	_	0		
Spring	DLW4660	TV03826	Spring for DLW4340, 4350, 4430	-	0	0	_		
	*1 DLW4530 must be used at 5 Nm[44.3 lbf in] or less.								

Bit Joint









Screw Joint



DLW4530



DLW4000

Soft Joint



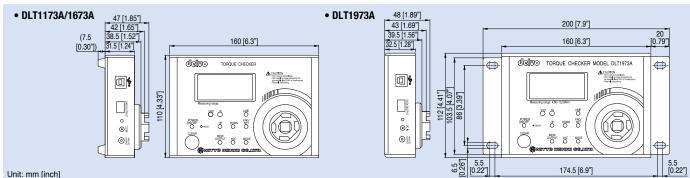
Hard Joint

DLW4040



Spring

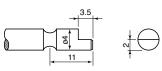
External Dimensions

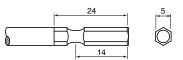


OD 4 mm Shank

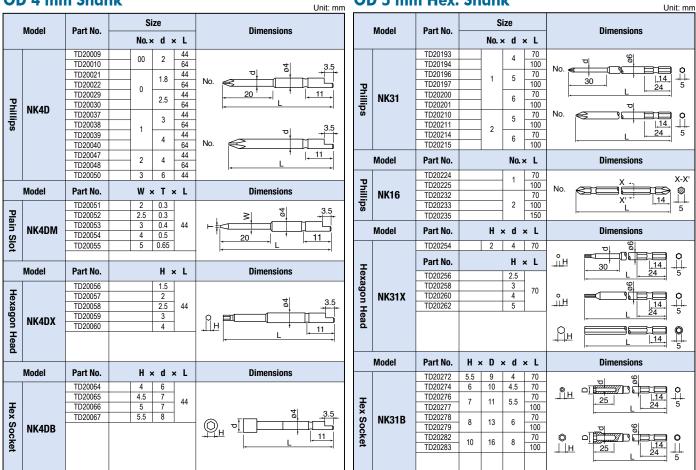
For DLV7400A, 5700, 5800, 7300, 7000, 8000, 3300 series

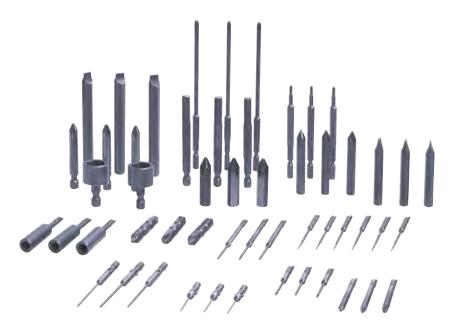
For DLV7100, 7200, 8100, 8200, 3100, A(DLV30A) series



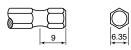


OD 5 mm Hex. Shank

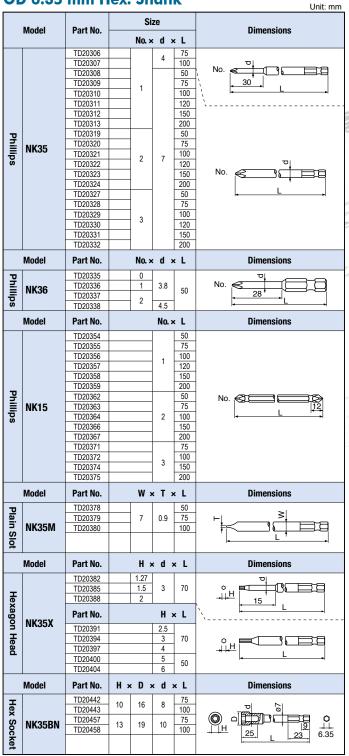




For DLV7500, 8500, 7100, 7200, 8100, 8200, 02, 12, 16, A(DLV30A/45A/70A) series



OD 6.35 mm Hex. Shank

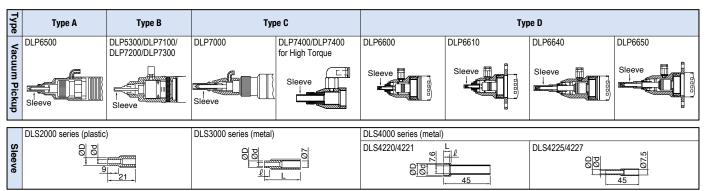


If Bits other than the above are required, please contact Nitto Kohki or our distributors.

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Vacuum Pickups and Sleeves

Screwdriver series			Vacuum Pickup		Sleeve (Standard accessory)	
Screwurver series		Туре	Model	Part No.	Model	
DLV7000/DLV8000/DLV3300		Туре А	DLP6500	TD00343	DLS2124/DLS2127/DLS2130	
DLV7400A/DLV5700/DLV5800			DLP5300	TD04342	DLS2120/DLS2124	
DLV7313		Type B	DLP7100	TD00345	DLS2122/DLS2124/DLS2127	
DLV7323/DLV7333	For Ø4 mm	Туре в	DLP7200	TD00346	DLS2123/DLS2124/DLS2127	
	For 6.35 mm (1/4")		DLP7300	TD00347	DLS2135	
DLV7100/DLV7200/DLV8100/DLV8200			DLP7000	TD00344	DLS3223/DLS3225	
DLV7104/DLV8104/DLV8204						1 piece each
delvo Brushless Type A series 30A	For HEX. 5 mm	Type C	DLP7400	TD07285-0	DLS3223/DLS3225	
delvo Brushless Type S series 30S	(M3, M4)	i ype C				
delvo Brushless Type A series 45A/75A	For HEX. 6.35 mm		DLP7400 for High Torque	TD07286-0	DLS4220/DLS4221	
delvo Brushless Type S series 45S/75S	(M5, M6)					
delvo Brushless Type C series For Ø4 mm		Type D	DLP6600/DLP6610	TD08748/TD08751	DLS2124/DLS2127/DLS2134	
	For 6.35 mm (1/4")	туре D	DLP6640/DLP6650	TD08804/TD08805	DLS4225/DLS4227	



DLS2000 series

	Sleeve											
Model	Part No.	Ø	d	Ø	D	Bit (No. × d × L) (+)						
mouer	i art no.	mm	inch	mm	inch							
DLS2120	TD00348	2	0.08	3.5								
DLS2121	TD00349	2.2	0.09		0.14	N= 0 ··· 4 0 ··· 44						
DLS2122	TD00350	2.5	0.1		0.14	No. 0 × 1.8 × 44						
DLS2123	TD00351	2.7	0.11									
DLS2124	TD00352	3.1	0.12		0.18	No. 0 × 2.5 × 44						
DLS2125	TD00353	3.3	0.13	4.5								
DLS2126	TD00354	3.5	0.14									
DLS2127	TD00355	3.7	0.15									
DLS2128	TD00356	4	0.16		0.00	No. 1 × 3 × 44						
DLS2129	TD00357	4.2	0.17	E E								
DLS2130	TD00358	4.5	0.18	5.5	0.22							
DLS2131	TD00359	4.7	0.19			No. 1 × 4 × 44						
DLS2132	TD00360	5.1	0.2									
DLS2133	TD00361	5.3	0.21	6.5	0.26							
DLS2134	TD00362	5.6	0.22			No. 2 × 4 × 44						
DLS2135	TD00363	6.1	0.24	7	0.28							

DLS3000 series

Sleeve										
Model	Part No.	Ø	d	Ø	øD		Q		L	Bit (No. × d × L) (+)
MOUGI	Tart No.	mm	inch	mm	inch	mm	inch	mm	inch	
DLS3222	TD00364	5.6	0.22	7	0.28	5	0.2			No. 1 × 5 × 70
DLS3223	TD05024	6.1	0.24					34	1.34	NO. 1 ~ 0 ~ 70
DLS3224	TD00365	6.4	0.25	9	0.35			34	1.34	No. 2 × 6 × 70
DLS3225	TD00366	7.1	0.28							NO. 2 ^ 0 ^ 70
DLS3226	TD00367	4.6	0.18							No. 1 × 4 × 100
DLS3227	TD00368	5.1	0.2	7	0.28	18	0.71			110.1 ^ 4 ^ 100
DLS3228	TD00369	5.6	0.22					65	2.56	No. 1 × 5 × 100
DLS3229	TD00370	6.1	0.24					60	2.00	No. 1 × 5 × 100
DLS3230	TD00371	6.4	0.25	9	0.35					No. 2 × 6 × 100
DLS3231	TD00372	7.1	0.28							110.2 ~ 0 ~ 100

DLS4000 series

Sieeve										
Model	Part No.	ød		øD		۹. Letter Lette		L		Bit (No. × d × L) (+)
		mm	inch	mm	inch	mm	inch	mm	inch	
DLS4220	TD08001	9.1	0.36	11	0.43	5	0.2	6	0.24	No. 2 × 7 × 75
DLS4221	TD08002	10.6	0.42	12.5	0.49	5.5	0.22	7	0.28	110. 2 ~ 7 ~ 75
DLS4225	TD09344	4.6	0.18	-	0.00					No. 1 × 4 × 75
DLS4227	TD09345	5.6	0.22	1	0.28				-	No. 1 × 5 × 75

<u>Accessories</u>

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.

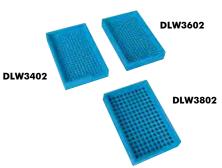
Model		DLP2530	DLP2570	
Features		Standard	With CE mark	
Voltage		100 V AC, 50/60 Hz	230 V AC, 50/60 Hz	
Power Consumption	(W)	30(50 Hz),	26(60 Hz)	
Achievable Vacuum	(kPa)	-21.3		
Flow Rate (at Outlet)	(L/min)	24(50 Hz), 26(60 Hz)		
Screw Size (mm)		4 or less		
Mass	(g [lbs])	3800	[8.38]	

Pistol Grip DLW2300/2300ESD

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



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 buid-up and dust attached to the shaker box.

Model		DLW3402	DLW3602	DLW3802
Part No.		TD04110	TD04111	TD04112
Hole Pitch	(mm [inch])	6 [0	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
DLW5202	D2 TD08486 DLV45S/70S and DLV45A/70A	
DLW5203	TD09222	DLV30S and DLV30A
DLW5300	DLW5300 TD00332 DLV7301, 7000, 8000 series (for 4 mm bit)	
DLW5400	TD01883	DLV7301 series (for 6.35 mm bit)
DLW5500	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

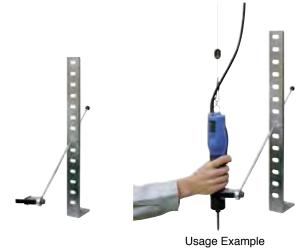
(for DLV7100, 7200, 8100, and 8200 series Electric Screwdrivers) *Can not be mounted on SPC type



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

Easy-to-attach grip suitable for horizontal operation.

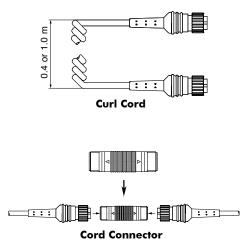
Torque Reaction Arm



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

Part No.	Decription	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		0.1					
TD02548	Extension Cord For 5P	DLV7300 series	3.0					
TD03159	Extension Cord For 6P		2.0					
TD01882	Curl Cord		0.4					
TD02820	Curl Cord	DLV7500/8500 series	1.0					
TD02438	Cord Connector DLW9100							

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

SAFETY GUIDE

Be sure to read and understand the following safety notations and all safety precautions.

🔥 WARNING:

Indicates a potentially hazardous situation which, if failure to comply with the instructions given, could result in serious injury or death.

<u> Caution</u>:

Indicates a potentially hazardous situation which, if failure to comply with the instructions given, could result in injury or material damage.

- **Safety Precautions**
- Be sure to follow the safety precautions to keep accidents such as fires, electroshock, and injuries from occurring.
- Before using your tool, please read this manual carefully so that you may use it properly to get the most out of it.
- · Keep the manual handy so you can use it whenever necessary.

Υ WARNING

- Keep work area clean. Cluttered work areas and benches invite accidents and injuries.
- Consider proper working environments for each tool carefully. Do not expose
 electric tools to extreme amounts of moisture or direct contact with water or
 rain. Keep area well lit at all times to prevent hidden dangers and never
 operate the equipment near flammable liquids or in gaseous or explosive
 atmospheres.
- Prevent operators from electric shock. When using electric tools, prevent body contact with grounded surfaces (e.g. pipes and outer frames of radiators, microwave ovens, and refrigerators, etc.).
- Keep all electric tools and power cords away from children and all
 unauthorized personnel. Also all visitors should be kept away from work area.
- Properly store tools and accessories while not in use. They should be kept in a dry, locked-up location out of reach of children or unauthorized personnel.
- Do not force tool. It will do the job better and more safely at the rate for which it was intended.
- Use the right electric power tool that can complete the job within its specifications. Do not attempt to adapt improper attachments or accessories to complete a job. Do not use the tool for other than what they were designed for.
- Dress properly. Do not wear loose clothing and/or accessories. (gloves, necklace etc.) They can be caught in moving parts. Non-skid footwear is recommended in outdoor operation. Wear protecting hair covering to contain long hair.
- Always wear safety glasses during operation. Wear respiratory protection when working in an environment where dust particles are generated during operation.
- Do not abuse cord. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- Use clamps or a vise to secure the work piece tightly and eliminate vibration. Never hold the work piece with your hands, keep both hands on the electric tool for increased productivity.
- · Do not overreach. Keep proper footing and balance at all times.
- Maintain tools with care. For safe and efficient work, use the proper bit and check it regularly. Do not use the bit with a worn out or deformed tip. When oiling and replacing parts, follow the instructions given by the instruction manual. Inspect tool cords periodically and if damaged, have them replaced by an authorized service facility. Keep handles dry,clean, and free from oil and grease.
- Disconnect a tool or a controller when not in use, when repairing, or when changing accessories and bits, etc.

- Remove adjusting keys and wrenches. Form habit of checking to see that keys and adjusting wrenches are removed from tools before turning it on.
- Always avoid an unexpected start by having all power switches in the off
 position prior to attaching to a power supply. Never carry tools with your finger
 on the on/off switch when the power is attached. Never plug the cord into a
 receptacle while your finger is on the on/off switch.
- When the tool is used outdoors, use an electric extension cord or cable suitable for outdoor use.
- Stay alert. Watch what you are doing. When using electric tools, take good care of tool handling, working manner, and surrounding conditions. Use common sense. Do not operate tool when you are tired.
- Check damaged parts. Before further use of the tool, an accessory or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended functions. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. When repairing or replacing parts, follow the directions of the instruction manual. The part that is damaged should be properly repaired or replaced by an authorized service facility unless otherwise indicated elsewhere in this operation manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch cannot be turned on and off.
- Use only recommended accessories and attachments as per tool operator manual and "delvo" general catalog. Use of improper accessories and attachments may result in an accident or serious injury.
- Any repairs on the tool should be performed only by an authorized service facility. Do not modify the tool that is complying with the safety standard. If the repairman who has poor knowledge and skill repairs the tool, the tool may not give a good performance and result in an increased risk of injury to the user.
- The power source must be limited to the individual tools specifications as stated on the nameplate or instruction manual. If used at a higher or lower voltage than indicated, it may cause failure and result in an increased risk of injury to the user.
- Before work operation carefully check if there are underground installations such as conduit, water pipe, and gas pipe, etc. If a tool should touch them, it might cause electric shock, electric leak, or gas leak.
- Hold the tool body firmly so as not to be swung by it when using. If not, this may cause injury.
- Do not bring hand or face close to moving parts such as bit etc. when using. This may cause injury.
- When you have dropped the tool by mistake, carefully check the tool if there is breakage, cracks or deformation. This may cause injury.

A CAUTION

- Install bits or accessories securely in accordance with the operation manual. Insufficient installation may cause injury.
- Whenever setting the torque, unplug the cable of the tools. Adjusting the torque setting during rotation may cause injury.
- When operating a tool at high places, check that there is no person under the places. Do not stumble over the cord nor drop the material or tool body. This may cause injury.
- Never leave a tool running unattended on the working bench or floor. Always turn the power switch or lever to the off position and disconnect from the power source when not in use.
- Do not overload to the extent that the motor locks or the clutch malfunctions. This may cause smoke, fire, failure or injury.
- If the tool is overheating or functioning abnormally, stop using the screwdriver immediately and inspect it to see whether any repairs are necessary.
 Otherwise this may cause failure or injury.
- The electric screwdriver may overheat depending on the type of screw, type of screw-tightened material, or frequency of use. To avoid overheating, stop operating the screwdriver for a time or use several drivers in alteration.
 Overheating may reduce the life of the product or cause failure or injury.
- The fastening torque may vary depending on how the product is operated or held, the type of screw, and the fastening conditions. Use a torque wrench or similar tool to check that the fastening torque is appropriate.





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