Low Voltage (DC)			
Brushmo	otor Brus	hless motor	
	Precision screw	Machine screw	
2.6 to 8.0 mm			

S Series (Variable speed type) Model DLV30S/DLV45S/DLV70S C€



Features

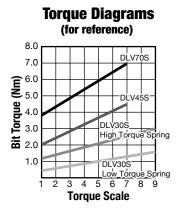
- · Built-in brushless motor
- Automatic speed control function
- Built-in screw counting function
- · ESD (electrostatic discharge) protection structure
- Setting with the optional Remote Controller



Specifications

Specifications		Low Speed	Standard		High Speed	Low Sp	eed	Standard	Low Speed		
	Model _{Bit}	Lever Start	DLV30S06L-AY K	DLV30S12L-AY	ĸ	DLV30S20L-AY K	DLV45S06	6L-AY K	DLV45S12L-AY K	DLV70S06L-AY K	
		Push to Start	DLV30S06P-AY K	DLV30S12P-AY	ĸ	DLV30S20P-AY K	DLV45S06	6P-AY K	DLV45S12P-AY K	DLV70S06P-AY K	
	Power Source		DEA0151N-AZ or DEA0241N-AZ DEA0241N-AZ				DEA0151N-AZ or DEA0241N-AZ DEA0241N-AZ				
	Torque Adjustment		Stepless								
	Torque	Low Torque Spring*1		0.4 to1.6 [3.5 to 14.	.2]		~	0 to 1 5 [1	7 7 to 20 91	3.8 to 7.0	
	(Nm [lbf·in])	High Torque Spring*2			2.0 to 4.5 [17.7 to 39.8]			[33.6 to 62.0]			
ewdriver	Free Speed (min ⁻¹)		For the details, see separate setting range of speed and torque.								
dri	Speed Level		Lv1(Min. Speed) to Lv9(Max. Speed)								
ev.	Power Cons	sumption (W)	44								
Scr		Machine Screw	2.6 to 5.0				4.5 to 6.0			5.0 to 8.0	
Ŀ.	(mm)	Tapping Screw	2.5 to 4.0				4.0 to 5.0 4.5 to 6.0				
Electric	Mass (g [lbs])		710 [1.57]				860 [1.90] (with pistol grip)				
Ē	Rated Operation		ON: 0.5 seconds / OFF: 3.5 seconds								
	Bit Grounding		Equipped as standard								
	Standard A	ccessories*3	• Bit NK35(No.2 × 7 × 75): 1 pc. • Bit NK35(No.2 × 7 × 75): 1 pc. • Suspension Bail: 1 pc. • Suspension Bail: 1 pc. • Low Torque Spring: 1 pc. • Connection Cord 1.5 m (DLW9073): 1 pc. • Connection Cord 1.5 m (DLW9073): 1 pc. • Pistol Grip (DLW2300ESD): 1 pc. • Torque Adjustment Ring Cover (DLW5203) • Torque Adjustment Ring Cover (DLW5202)								
	Input/Outpu	ut Signal Type	PNP								
	Model		DEA0151N-AZ	DEA0241N-AZ				*1: Stan	dard Accessory		
er Supply	Power Sou	rce	100 - 240 V AC, 5	60/60 Hz, 60 W 🛛 🖉	D	. 9 .		*2: Insta			
	Output Vol	tage	40 V DC		4				ne power cord is sold separately. sk us for the required power cord when ordering.		
	Maximum Rated Power (W) Mass (kg)		150	240	_ ا		6.35	ASKI	as for the required powe	i cora when ordening.	
Power			0.56	0.9	-	Q +	• • 				
Ľ	Power Cord	d 2m (Optional)*3	DLW9220 / DLW9240 / DLW9250				unit: mm	unit: mm			

S Series (Variable speed type) Model DLV30S/45S/70S



Setting with the Remote Controller

Infrared data transmission and the LCD display shorten the setting time. Simultaneous setting of multiple screwdrivers with the Remote Controller. *The Remote Controller is available as an option.

Key Lock Command

The Remote Controller can transmit the key lock command to a screwdriver. The key lock command prevents accidental button operation on the screwdriver.



Setting Range of Speed and Torque (for reference only)

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

Up to eight types of motion setting or up to 8 channels can be saved in the screwdriver

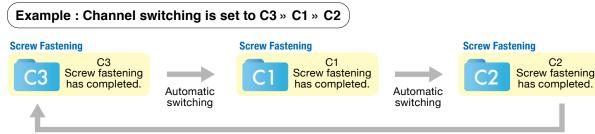
Eleven functions in motion setting can be saved in each channel.

Example of motion setting

		Channel							
		C1	C2	C3	\sum	C 8			
	1 : Number of screw fastening	2 pieces	3 pieces	1 piece		4 pieces			
	2 : Speed level at start	Level 2	Level 1	Level 1		Level 2			
	3 : Rotation time at start	0.20 sec.	0.30 sec.	0.30 sec.		0.20 sec.			
	4 : Speed level at middle	Level 7	Level 9	Level 9		Level 9			
setting	5 : Rotation time at middle	0.30 sec.	0.50 sec.	3.0 sec.		7.5 sec.			
	6 : Speed level at finish	Level 2	Level 1	Level 1	\sim	Level 2			
Motion	7 : Min. screw fastening time	0.60 sec.	0.80 sec.	3.5 sec.		8.0 sec.			
Mot	8 : Max. screw fastening time	1.0 sec.	1.2 sec.	4.0 sec.		9.0 sec.			
	9 : Auto reverse mode setting	OFF	OFF	Reverse after torque-up		Reverse after reaching the min. screw fastening time			
	10 : Reverse rotation speed level	-	-	Level 2		Level 1			
	11 : Reverse rotation time	_	_	0.20 sec.		0.30 sec.			

Automatic Channel Switching

Channel can be switched automatically if channel switching order is preset. *Setting with the Remote Controller is required.



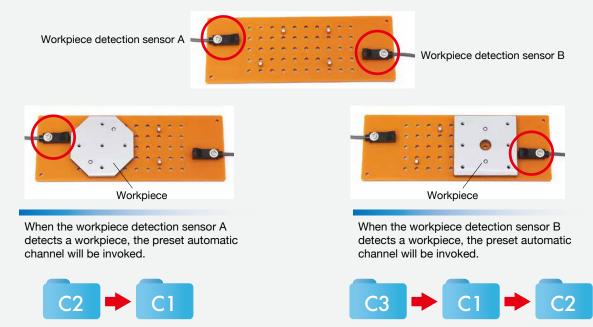


Setting of automatic channel switching pattern

Up to four automatic channel switching patterns can be set with an external signal. *Setting with the Remote Controller is required.

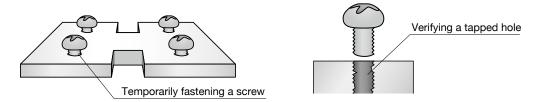
Example of setting : Installation of the workpiece detection sensors A and B connected to the external signal connector.

Automatic channel switching is set to C2 » C1 on the side of the workpiece detection sensor A. Automatic channel switching is set to C3 » C1 » C2 on the side of the workpiece detection sensor B.



Built-in Auto Reverse Mode

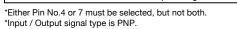
The screwdriver automatically reverses after torque-up or reaching the preset time. Auto reverse mode can be used for temporarily fastening screws or verifying tapped holes.

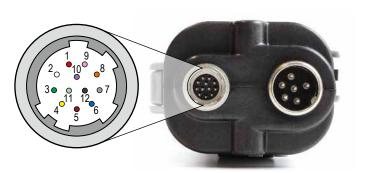


Equipped with the External Signal Connector

The screwdriver can input/output external signals 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	Tellow	Forced stop signal	input				
5	Brown	OK Signal	Output				
6	Blue	NG Signal	Output				
7	Gray	LINK-OUT	Quitaut				
		Channel switching signal	Output				
8	Orange	Torque-up (count) signal	Output				
9	Peach	Channel A	Input				
10	Purple	Channel B	Input				
11	Yellow Green	Channel C	Input				
12	Black	0 V DC					
Lead wire colors are the ones used in the optional signal cable ass'y DLW9090.							





Optional Accessories

Grounded 3-Prong Power Cord 2 m	Power Supply DEA0151N-AZ	Power Supply DEA0241N-AZ	Remote Controller RC1000		
DLW9220 North America DLW9240 Europe DLW9250 UK	*Power cord is not included	*Power cord is not included	For simultaneous setting of multiple screwdrivers		
Signal Cable Ass'y 3 m DLW9090	Connection Cord 1.5 m DLW9073	Relay Cord 0.1 m (To connect DLW9073 and DLW9073) DLW9074	Pistol Grip DLW2300ESD		
	Standard accessory of screwdrivers		See page 51 ESD Protection Standard accessory of DLV45S/DLV70S		
For signal input/output	screwdriver	To connect DLW9073 and DLW9073	For operator fatigue reduction, suitable for horizontal fastening		
Torque Adjustment Ring Cover DLW5203	Torque Adjustment Ring Cover DLW5202	Sleeve for Vacuum Pickup DLS4000 Series	Vacuum Pickup DLP7401-K		
		See page 49	See page 49		
Standard accessory of DLV30S	Standard accessory of DLV45S/DLV70S	Select according to the screw shape	For screw vacuum pickup *DLS4220/DLS4221 included		
Torque Reaction Arm (TD06180)	Torque Reaction Arm DRA-SW-650 (Swing type)	Torque Reaction Arm DRA-SL-650 (Slide type)	Torque Reaction Arm DRA-TS-1000 (Telescope type)		
See page 52	See page 50	See page 50	See page 50		
For reducing reaction force to an operator		n force to an operator ece improves quality of the work	For reducing reaction force to an operator		
Angle Attachment (For use with lever start type only) DLW9021	Diamond Shape Flange Coupling DLW9016 DLW9018	Diamond Shape Flange Coupling DLW9017 DLW9019			
See page 52	See page 54 See page 54	See page 54 See page 54			
For fastening work at right angles *Use with an output torque of 2.0 Nm or less and a torque scale of 2 or more.	For DLV30S For mounting on equipment or jigs	For DLV45S/DLV70S For mounting on equipment or jigs			