

S Series (Variable speed Type) Model DLV30S/45S/70S  For Machine Screws #3 - #5/16 (2.6 - 8.0 mm)

Features

- High power brushless motor
- Adjustable speed control for machine or tapping screws
- Programmable three stage speed control
- Built-in screw counting function
- Configures setting with optional remote controller
- ESD(electrostatic discharge) protected housing
- Detachable power code for easy maintenance



Programmable Three Stage Speed Control Function

Low speed start-up minimizes cross-threading, stripped screws.

High speed drive increases productivity.

Low speed at torque-up minimizes stripped screw and overshott torque.

<Step 1>

<Step 2>

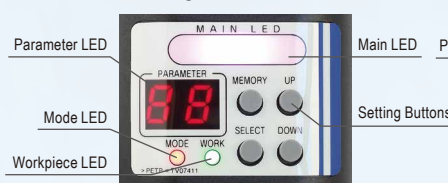
<Step 3>

Built-in Screw Fastening Counter

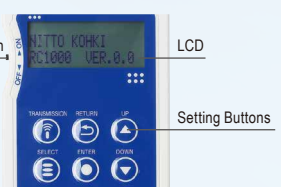
- Batch counting
- Fastening time monitoring, OK(Pass)/Fail(NG) decision



LEDs and Setting Buttons on the Screwdriver



Part Names of the Remote Controller



Specifications

Model	Starting Method	Torque Adjustment Lb-in(Nm)		Screw Size (for reference)		Weight lbs(g)	Bit	Power Source	Power Consumption
		Low Torque Spring (Standard Accessory)	High Torque Spring (installed)	Inch Thread	Metric Coarse Thread				
DLV30S06L-AYK	Lever Start	3.5 - 14.2 (0.4 - 1.6)	10.6 - 26.6 (1.2 - 3.0)	#3 - #11	2.6 - 5.0 mm	1.57 (710)	Hex 1/4"	DEA0151N-A / DEA0241N-AZ	44 W
DLV30S12L-AYK								DEA0241N-AZ	
DLV30S20L-AYK								DEA0151N-A / DEA0241N-AZ	
DLV30S06P-AYK	Push to Start	17.7 - 39.8 (2.0 - 4.5)	#9 - #13	4.5 - 6.0 mm	1.90 (860) with Pistol Grip	DEA0241N-AZ			
DLV30S12P-AYK						DEA0241N-AZ			
DLV30S20P-AYK						DEA0151N-A / DEA0241N-AZ			
DLV45S06L-AYK	Lever Start	33.6 - 62.0 (3.8 - 7.0)	#12 - #5/16"	5.0 - 8.0 mm	1.85 (840)	DEA0241N-AZ			
DLV45S12L-AYK						DEA0241N-AZ			
DLV45S06P-AYK						DEA0151N-A / DEA0241N-AZ			
DLV45S12P-AYK	Push to Start					DEA0241N-AZ			
DLV70S06P-AYK						DEA0241N-AZ			
DLV70S12P-AYK	Push to Start								

Power Supply

Model	Input	Output	Maximum Rated Power	Weight lbs(g)	Standard Accessory
DEA0151N-AZ	100 - 240 V AC, 50/60 Hz, 60 W	40 V DC	150 W	1.23 (560)	80" (2 m) cord with UL three-prong plug
DEA0241N-AZ			240 W	1.98 (900)	

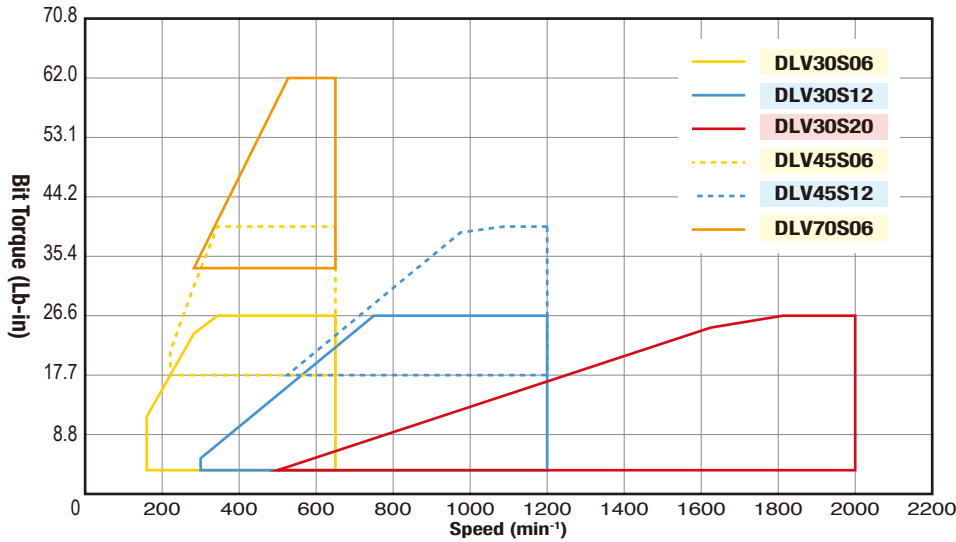
Setting Range of Speed and Torque (for reference only)

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

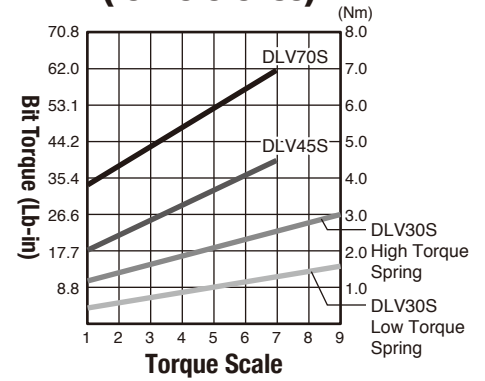
*Speed and torque are for reference only. The actual values depend on the fastening material and size of screws. The values are not guaranteed.

Setting Range for Standard Models

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



Torque Diagrams (for reference)



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

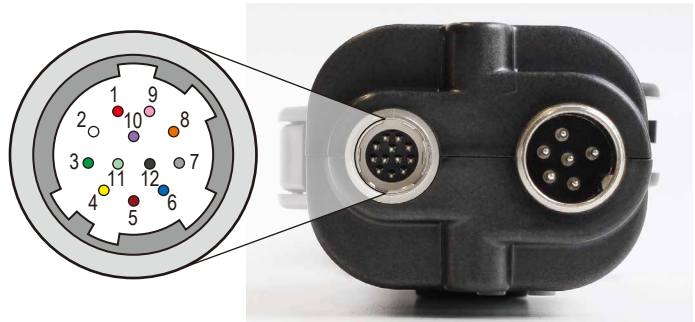
Equipped with the External Signal Connector

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

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

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

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



Standard Accessories

For DLV30S	<ul style="list-style-type: none"> • Bit NK35 x 2 x 7 x75 • Suspension Bail • Low Torque Spring • Connection Cord (DLW9073)
For DLV45S DLV70S	<ul style="list-style-type: none"> • Bit NK35 x 2 x 7 x75 • Suspension Bail • Connection Cord (DLW9073) • Pistol Grip (DLW2300ESD)

Optional Accessories

<p>Remote Controller RC1000</p> 	<p>Signal Cable Ass'y DLW9090 (3 m)</p> 	<p>Connection Cord DLW9073 (1.5 m)</p> 	<p>Relay Cord (To connect DLW9073 and DLW9073) DLW9074</p> 
*Standard accessory of screwdrivers			