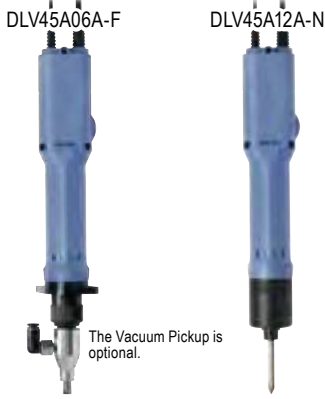


Transformerless (AC)  
 Brush motor **Brushless motor**  
 Miniature screw Precision screw **Machine screw**  
**2.6 - 8.0 mm**



# Delvo Brushless Type

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



The Vacuum Pickup is optional.

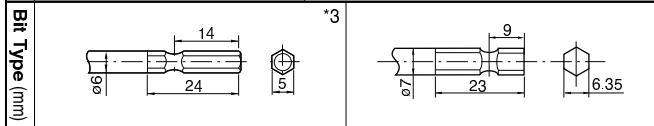
### Features

#### 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

		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 Voltage		100 V AC, 50/60 Hz					
Torque (Nm [lbf-in])	Low Torque Spring*1	0.4 - 1.6 [3.5 - 14.2]			2.0 - 4.5 [17.7 - 39.8]		3.8 - 7.0 [33.6 - 62.0]
	High Torque Spring*2	1.2 - 3.0 [10.6 - 26.6]					
Free Speed (min <sup>-1</sup> )		650	1200	2000	650	1200	650
Screw Size (mm)	Machine Screw	2.6 - 5.0			4.5 - 6.0		5.0 - 8.0
	Tapping Screw	2.5 - 4.0			4.0 - 5.0		4.5 - 6.0
Mass (g [lbs])	Standard coupling	700 [1.54]			780 [1.72]		
	Coupling with flange	760 [1.68]			840 [1.85]		
	Coupling with M41 screw	740 [1.63]			820 [1.81]		
Power Consumption (W)		45					
Starting Method		External input signal					
Input signal		Start signal / Forward signal / Reverse signal (5 - 24 V DC)					
Output signal		Torque-up signal (Voltage under 30 V DC and current 20 mA)					
Standard Accessories		• Bit NK31 × 2 × 6 × 70: 1 pc. • Low torque spring: 1 pc.			• Bit NK35 × 2 × 7 × 75: 1 pc.		



- \*1: Standard Accessory
- \*2: Built-in
- \*3: DLV30A is available upon request for use with 6.35 mm hex. shank bits.

### Optional Accessories



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

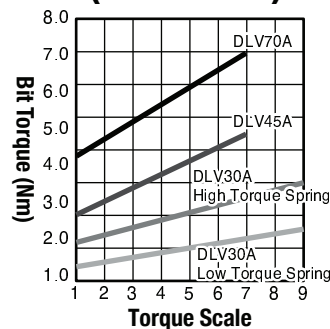


**Vacuum Pump**  
 DLP2530/2570

Part No. TD07285  
 TD07286

\* Please see page 39 for details.

### Torque Diagrams (for reference)



### Screwdriver Cable Breakdown List

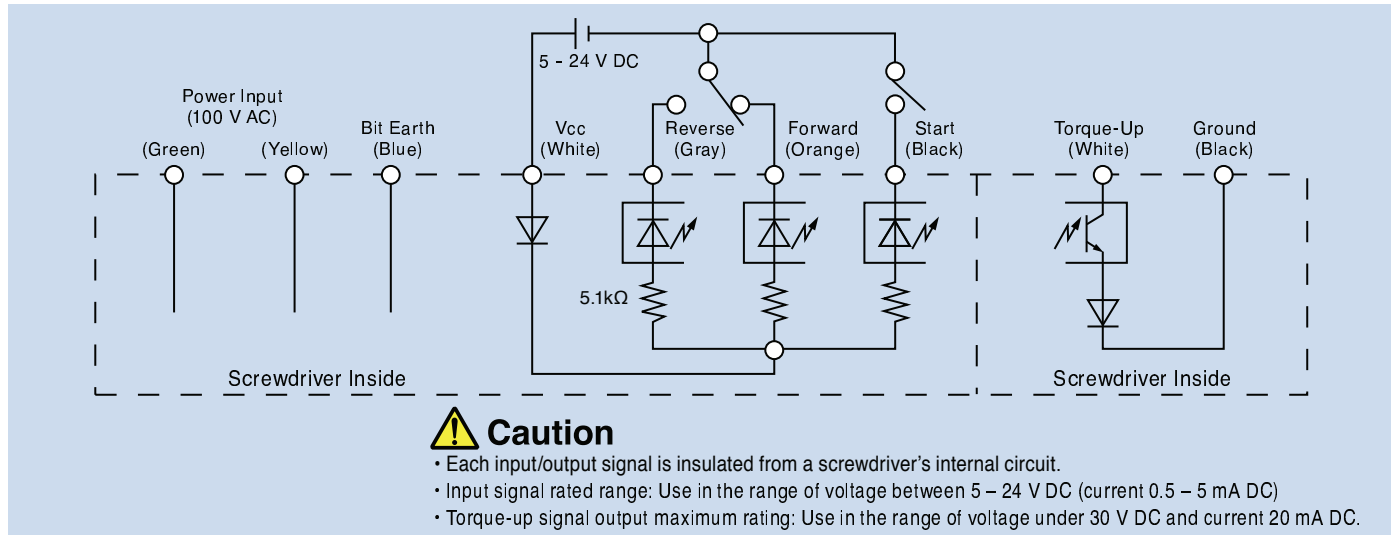
Color	Details
Green	Power input
Yellow	Power input
Blue	Bit earth
White	Input signal common (Vcc)
Black	Start signal input
Orange	Forward signal input
Gray	Reverse signal input

Power input voltage: 100 V AC

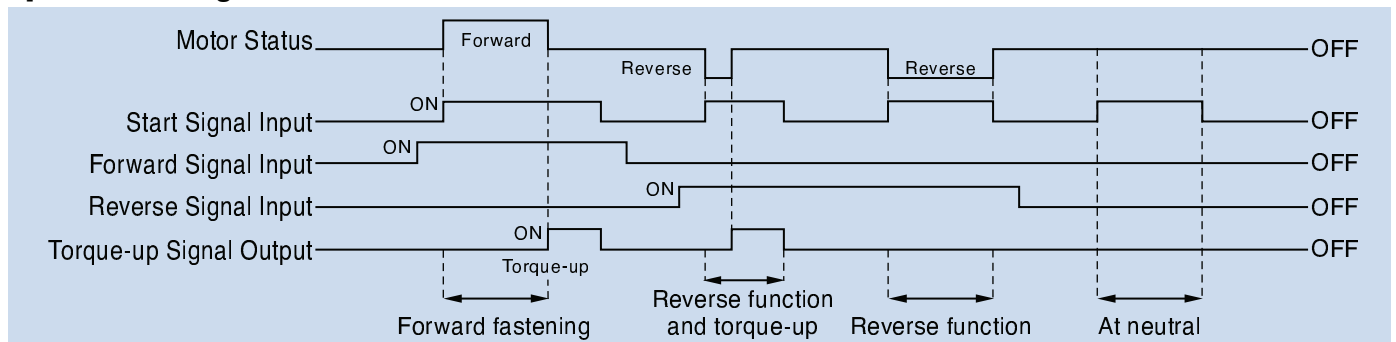
### Output Signal Cable

Color	Details
White	Torque-up signal output
Black	Ground

## Power Input/Output Signal Schematic Diagram



## Operation Timing Chart



## External Dimensions

