

delvo Brushless Type C Series (Current control type)

Model DLV45C is UR+ certified



"delvo" is certified as a UR+ product by Universal Robots.
UR+ is a group of products which can be used with Universal Robots by plug-and-play, including peripherals and application kits.



[Certified products]

- "delvo" Brushless Type C Series (Current control type) Model DLV45C
- Controller for DLV45C Model DCC0241X

[Features]

- Compatible with URCap (dedicated software for "delvo")
- Torque range : 0.6 to 4.5 Nm (5.3 to 39.8 lbf-in)
- Current Controlled Torque System suitable for various screw fastening work
- Thirty different torque settings can be set on a single screwdriver
- Nine speed settings available
- Automatic three step speed control function

* For details of DLV45C, please refer to the general catalog and instruction manual.

* For details on how to mount to the robot and communication setting, please refer to the User's Manual.

Example of installation on a robot

delvo DLV45C

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 **YouTube** **Installation example movie**



Setting of "delvo"



Traceability



Thirty different torque settings can be set on a single screwdriver!

Torque range : 0.6 to 4.5 Nm

Lever Start / Push to Start

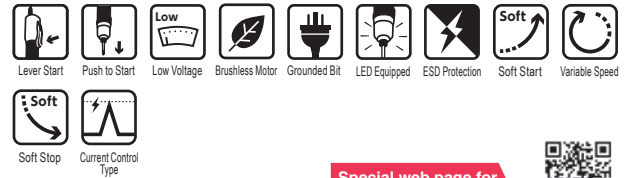


DLV45C12L DLV45C12P

DCC0241X-AZ



Delvo Brushless Type



Special web page for
Universal Robots

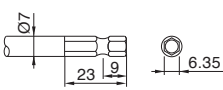


C Series (Current control type)

Model **DLV45C**  

- 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
- Nine speed settings available
- Automatic three step speed control function
- Two types of measuring methods (Time/Motor rotation signal)
- Seven color indication LED (At the tip of the screwdriver)
- Two external I/O signal connection ports (NPN ⇄ PNP switchable, RS-232C)
- Various settings can be configured via a PC (Free setting software available on Nitto Kohki website)

Specifications

Model			Bit	DLV45C12L-AY	K	DLV45C12P-AY	K	
Starting Method				Lever Start		Push to Start		
Power Source				From dedicated controller				
Torque Adjustment				From 1 to 100% in 1% increments				
Torque				(Nm [lbf·in]) 0.6 to 4.5 [5.3 to 39.8]				
Free speed	SOFT fastening setting	(min ⁻¹)		400 to 1200				
		Speed Level		Level 1 to 9				
	HARD fastening setting	(min ⁻¹)		100 to 700				
		Speed Level		Automatically set by torque setting				
Power Consumption				(W) 44				
Screw Size	Machine Screw		(mm)		3.0 to 6.0			
	Tapping Screw		(mm)		2.5 to 5.0			
Bit Type				(mm) 				
Mass				(kg [lbs]) 0.63 [1.39]				
Rated Operation				ON: 0.5 seconds / OFF: 3.5 seconds				
Bit Grounding				Equipped as standard				
Standard Accessories				Bit NK35 (No.2×7×75): 1 pc. Connection Cord 2 m (DLW9078): 1 pc. Suspension Bail: 1 pc.				

Model	DCC0241X-AZ
Power Source	100 - 240 V AC, 50/60 Hz
Output Voltage	40 V DC
Input Signal Method	Photocoupler input (24 V DC drive (5 mA/1 input), NPN/PNP switchable)
Output Signal Method	Photocoupler output (30 V DC or less, 80 mA/1 output or less, NPN/PNP switchable)
Service Power Source	24 V DC (Maximum capacity 200 mA)
Serial Signal Method	RS-232C
ESD (Electrostatic Discharge) Protection	Adopted (IEC61340-5-1 compliant)
Mass	(kg [lbs]) 1.8 [3.97]
Power Cord 2 m (Optional)*	DLW9220 / DLW9240 / DLW9250

Caution

*Speed and torque differs depending on the temperature.

(Use within the range of +10 to +40°C)

*Do not retighten screws that are already tightened. The torque will become larger than the set torque.

About optional accessories

*The power cord for the controller (DCC0241X-AZ) is sold separately.

Ask us for the required power cord when ordering.

*For torque measurements, please use Nitto Kohki's Torque Checker and Soft Joint / Hard Joint (sold separately).

Optional Accessories		Grounded 3-Prong Power Cord 2 m DLW9220/DLW9240/DLW9250	Diamond Shape Flange Coupling DLW9017	Flange Coupling DLW9019	Screw Vacuum Pump DLP2530 (100 V AC) DLP2570 (230 V AC)	Vacuum Pickup DLP7401-K	Vacuum Sleeve DLS4000 series
		USA Europe UK					
Torque Checker DLT1673A	Soft Joint DLW4050	Hard Joint DLW4040	External I/O Cable 3 m DLW9091	Communication Cable 3 m DLW9092	Extension Cord 3 m DLW9310	L Type Flange Attachment DLW9520	
							

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