

ELECTRIC SCREWDRIVERS

delvo



JQA-EM4057
NITTO KOHKI Co.,LTD.
Headquarters
Research Center



Professional Tools for High Technology

NITTO KOHKI "Delvo" Electric Screwdrivers are high-quality tools for professional use, with special emphasis on precise control of torque and long life. They apply just the correct amount of torque –with sure, positive control always at your fingertips. They are smooth and shockless in operation, too. NITTO KOHKI's customer-oriented service system is directly connected to sales agents to ensure that you can use Delvo Electric Screwdrivers with confidence.

CONTENTS

| | |
|--|----|
| Selection Chart | 2 |
| DLV5700series | 5 |
| DLV5800series | 6 |
| DLV7800series | 7 |
| DLV7300series | 8 |
| DLV7300-BMEseries | 9 |
| DLV7000 / 8000series | 10 |
| DLV7100 / 7200 / 8100 / 8200series | 11 |
| DLV3100 / 3300series | 12 |
| DLV7500 / 8500series | 13 |
| Multiple Controllers | 15 |
| Controller with Speed Adjustment and Screw Counter | 16 |
| Torque Checker series | 17 |
| DSF1000series | 18 |
| DLV7100 / 7200 / 8100 / 8200(115V)series | 19 |
| CCC mark Delvo | 20 |
| DLR5040A-WN | 21 |
| DLR5640-WN | 22 |
| Accessories | 24 |
| Sleeves and Vacuum Pickups | 25 |
| Optional cord / NK BIT | 26 |

● Shockless

A sophisticated clutch and motor braking mechanism reduces the shock at the end of the screwing operation and causes less fatigue.

● Long Life

Motor brush stands over a million operations. You can replace them easily.

● High Accuracy

High repeatable torque accuracy provides more consistent screw tightening torque.

● High Speed

High-speed torque motor cuts down screw tightening time and enhances productivity.

● Quieter

Compare a Delvo screwdriver with a conventional pneumatic type, you will hear the difference.

Models for EU

DLV7313 / 7323 / 7333 / 7321 / 7331 / 7325 / 7335-CME / CKE
DLV7321 / 7331-BME / BKE
DLV7319 / 7329 / 7339 / 7349-BME
DLC1213A-GG / GGB / GGU
DLV7530 / 7540 / 7550-MKE / BKE
DLV8530 / 8540 / 8550-MKE / BKE
DLC4511-GGB / DLR1510-JE



Selection Chart

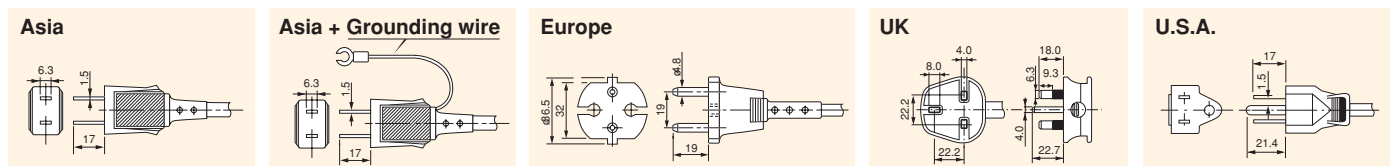
| Input Voltage | Screwdriver | | Controller | Shape of Plug for Power Supply |
|---------------|---|---|--|--------------------------------|
| 100 VAC | DLV5720 / 5720H / 5740 | + | DLC0350E | Asia |
| | DLV5740H / 5750 | + | DLC0950E | Asia |
| | DLV5820 / 5820H / 5840 | + | DLC0250E | Asia |
| | DLV7810 / 7820 - EMN | + | DLC2110 - EN | Asia |
| | DLV7810 / 7820 - SB | + | DLC2110 - ENB | USA |
| | DLV7313 / 7323 / 7333 - CMN DLV7325 / 7335 - CMN | + | DLC1213A - EN DLC1215 - EN DLC2310 - CE + DLE3610 - EN | Asia Asia Asia |
| | DLV7321 / 7331 - BMN DLV7319 / 7329 / 7339 / 7349 - BMN | + | DLC1213A - ENB | Asia |
| | DLV7020 / 7030 / 8020 / 8030 - EMN DLV7031 / 8031 - EMN | | | Asia |
| | DLV7120 / 7130 / 7140 - EJJ DLV7220 / 7231 / 7241 - EJJ DLV8120 / 8130 / 8140 - EJJ DLV8220 / 8231 / 8241 - EJJ DLV8150 / 7251 / 8251 - EKN | | | Asia |
| | DLV3121 / 3131 / 3141 / 3151 - EJJ | | | Exclusive cord |
| 115 VAC | DLV5720 / 5720H / 5740 | + | DLC0350F | USA |
| | DLV5740H / 5750 | + | DLC0950F | USA |
| | DLV7313 - CME DLV7321 / 7323 - CME / CKE DLV7333 / 7331 - CME / CKE DLV7325 / 7335 - CME / CKE | + | DLC1213A - FE | USA |
| | DLV7321 / 7331 - BME / BKE DLV7319 / 7329 / 7339 / 7349 - BME | + | DLC1213A - FEB | USA |
| | DLV7020 / 7030 / 8020 / 8030 - FME | | | Asia |
| 220 VAC | DLV7313 - CME DLV7321 / 7323 - CME / CKE DLV7333 / 7331 - CME / CKE DLV7325 / 7335 - CME / CKE | + | DLC1213A - GE DLC1215 - GE | UK Asia |
| | | | | |
| 230 VAC | DLV5720 / 5720H / 5740 | + | DLC0350G | UK |
| | DLV5740H / 5750 | + | DLC0950G | Asia + Grounding wire |
| | DLV7313 - CME DLV7321 / 7323 - CME / CKE DLV7333 / 7331 - CME / CKE DLV7325 / 7335 - CME / CKE | + | DLC1213A - GG * DLC1213A - GGU * | Eupore UK |
| | DLV7321 / 7331 - BME / BKE DLV7319 / 7329 / 7339 / 7349 - BME | + | DLC1213A - GGB * | Eupore |
| | DLV7530 / 7540 / 7550 - MKE / BKE DLV8530 / 8540 / 8550 - MKE / BKE | + | DLC4511 - GGB * DLR1510 - JE * | Eupore Eupore |
| | DLV7120 / 7130 / 7140 - JJE / JKE DLV8120 / 8130 / 8140 - JJE / JKE DLV7221 / 8221 - JKE DLV8150 - JKE | | | Asia |
| 240 VAC | DLV7313 - CME DLV7321 / 7323 - CME / CKE DLV7333 / 7331 - CME / CKE DLV7325 / 7335 - CME / CKE | + | DLC1213A - HE | Without Plug |
| | DLV7321 / 7331 - BME / BKE DLV7319 / 7329 / 7339 / 7349 - BME | + | DLC1213A - HEB | UK |
| 24 VAC | DLV3321 / 3331 - CMN | + | DLC3310 | Without Plug |

* : Complied With CE marking.

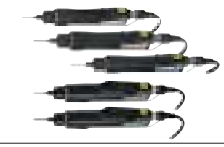






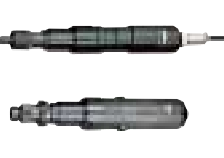



• Regarding "made to order" models and other than the models shown in this catalog, please inquire of the distributor for the price and minimum quantity per model.

Standard Plug Shape

Unit : mm

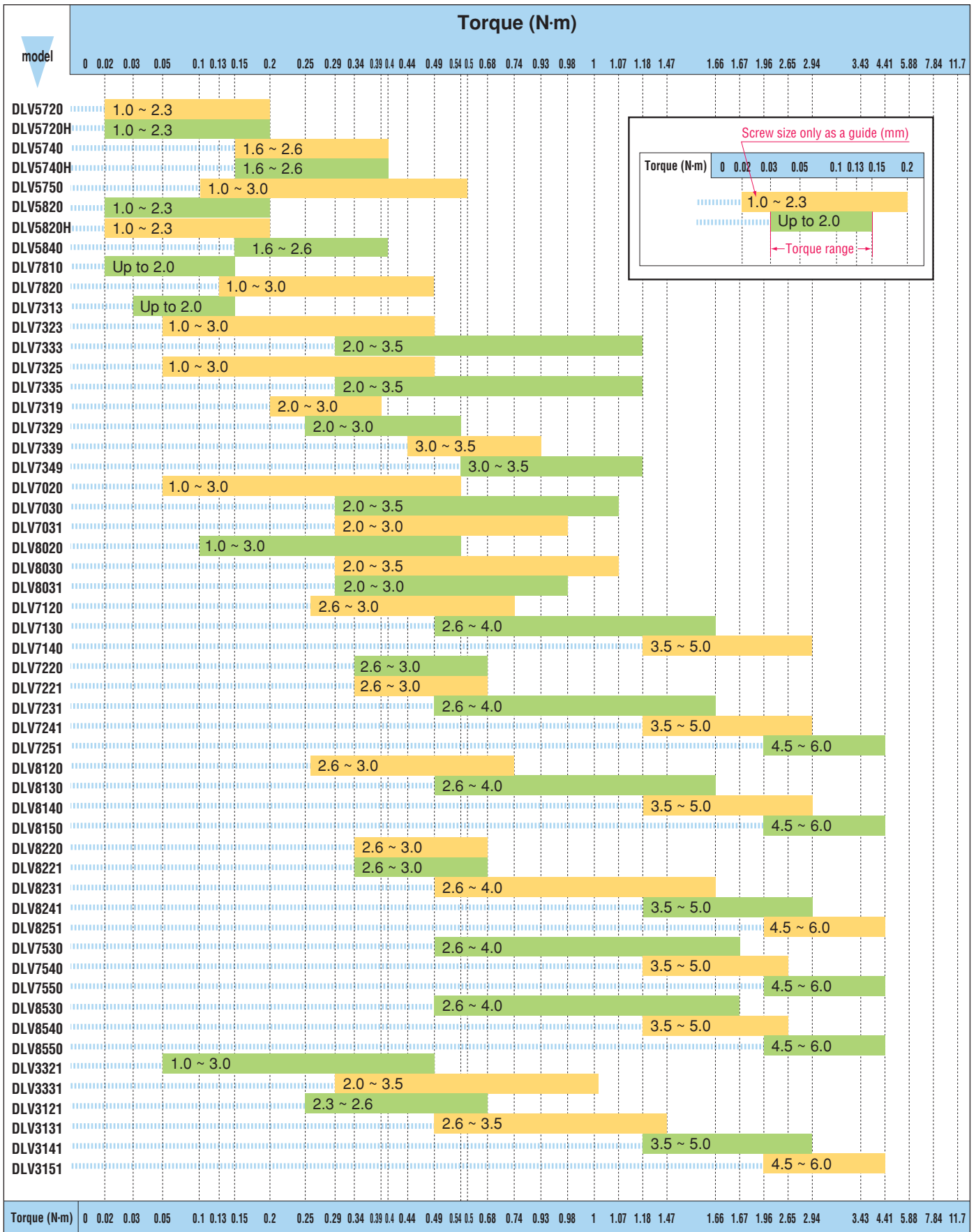


Selection Chart

| | Page | Screwdriver | | | | | Controller | | | |
|---|-------------|-------------|--------------------|-------------------|---|------------------|------------------|--|---------------------------------------|--|
| | | Series | Model | Applicable Screws | Features | Starting Method | Model | Features | | |
|  | 5 | 5700 series | DLV5720 | Miniature Screws | Low Voltage, Low Shock, ESD | Lever Start | DLC0350 | Speed Control, Soft Start, Signal Output | | |
| | | | DLV5720H | | | | | | | |
| | | | DLV5740 | | | | DLC0950 | | | |
| | | | DLV5740H | | | | | | | |
|  | 6 | 5800 series | DLV5820 | | Low Voltage, ESD | | Low Voltage, ESD | DLC0250 | Small size | |
| | | | DLV5820H | | | | | | DLC0350 | Speed Control, Soft Start, Signal Output |
| | | | DLV5840 | | | | | | | |
|  | 7 | 7800 series | DLV7810 | | Small Controller | | Small Controller | DLC2110 | Compact | |
| | | | DLV7820 | | | | | | | |
|  | 8 | 7300 series | DLV7313-CME | | Low Voltage | | Low Voltage | Lever Start | DLC1213A | Speed Control, Soft Start |
| | | | DLV7321 / 7323-C□E | | | | | | | |
| | | | DLV7331 / 7333-C□E | | | | | | DLC1215 DLC2310 | Multiple Control |
| | | | DLV7325-C□E | | | | | | | |
| | | | DLV7335-C□E | | | | | | | |
|  | 9 | | DLV7321-B□E | DLV7321-B□E | Low Voltage, ESD | Low Voltage, ESD | Lever Start | DLC1213A-□□B | Speed Control, Soft Start, Bit Ground | |
| | | | | DLV7331-B□E | | | | | | |
| | | | | DLV7319-BME | | | | | | |
| | | | | DLV7329-BME | | | | | | |
| | | | | DLV7339-BME | | | | | | |
|  | 10 | | 7000 series | DLV7020 | Transformerless | Transformerless | Lever Start | DLC1213A-□□B | Speed Control, Soft Start, Bit Ground | |
| | | | | DLV7030 | | | | | | |
| | | DLV7031 | 8000 series | DLV8020 | | | | | | Push to Start |
| | | DLV8030 | | | | | | | | |
|  | 11 | 7100 series | DLV7120 | Machine Screws | Machine Screws | Lever Start | DLC1213A-□□B | Speed Control, Soft Start, Bit Ground | | |
| | | | DLV7130 | | | | | | | |
| | | | DLV7140 | | | | | | | |
| | | DLV7150 | 7200 series | | | | | | DLV7220 | Push to Start |
| | | DLV7221 | | | | | | | | |
| | | DLV7231 | | | | | | | | |
| | | DLV7241 | 8100 series | | | | | | DLV7251 | Push to Start |
| | | DLV8120 | | | | | | | | |
| | | DLV8130 | | | | | | | | |
| | | DLV8140 | 8200 series | | | | | | DLV8150 | Push to Start |
| | | DLV8220 | | | | | | | | |
| | | DLV8221 | | | | | | | | |
| DLV8231 | 3300 series | DLV8241 | Push to Start | | | | | | | |
| DLV8241 | | | | | | | | | | |
| DLV8251 | | | | | | | | | | |
|  | 12 | 3300 series | DLV3321 | Miniature Screws | For Robot (with Torque Reach Signal Output) | External Input | DLC3310 | Torque Reach Signal Output | | |
| | | | DLV3331 | | | | | | | |
| | | 3100 series | DLV3121 | Machine Screws | | | Low Voltage | Lever Start | DLC4511-GGB | Speed Control, Soft Start, Bit Ground, Signal Output |
| | | | DLV3131 | | | | | | | |
|  | 13~14 | 7500 series | DLV3141 | Machine Screws | Low Voltage | Lever Start | DLC4511-GGB | Speed Control, Soft Start, Bit Ground, Signal Output | | |
| | | | DLV3151 | | | | | | | |
| | | 8500 series | DLV7530 | | | | | | Push to Start | |
| | | | DLV7540 | | | | | | | |
|  | 13~14 | 8500 series | DLV7550 | Machine Screws | Low Voltage | Lever Start | DLC4511-GGB | Speed Control, Soft Start, Bit Ground, Signal Output | | |
| | | | DLV8530 | | | | | | | |
| | | | DLV8540 | | | | | | | |
|  | 13~14 | 8500 series | DLV8550 | Machine Screws | Low Voltage | Push to Start | DLC4511-GGB | Speed Control, Soft Start, Bit Ground, Signal Output | | |
| | | | DLV8550 | | | | | | | |

Selection Chart

■ This chart is for reference only.



DLV5700series

■ For Miniature Screws (1.0~3.0mm)

Features

For quality improvement and productivity enhancement

- Grounded bit installation mechanism.
- Electro-static discharge (ESD) control.
- Low-shock for tightening (30% less of standard models)
- Low swing bit mechanism
- Ergonomic design
- High-performance DC motor
- New clutch mechanism



Specifications

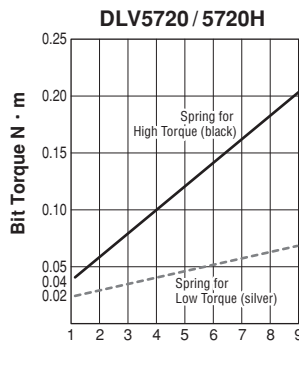
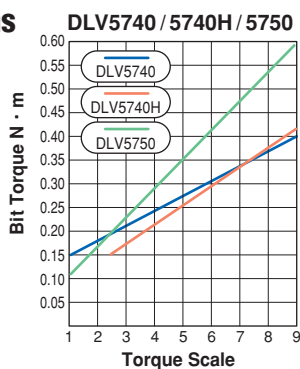
| Model | DLV5720 | DLV5720H | DLV5740 | DLV5740H | DLV5750 |
|---------------------------------|--------------------------------------|----------|----------|-----------|----------|
| Starting Method | Lever Start | | | | |
| Input Voltage | Supply from the dedicated controller | | | | |
| Torque Adjustment | Stepless | | | | |
| Torque (N·m) | 0.02~0.2 | | 0.15~0.4 | | 0.1~0.55 |
| Free Speed (min ⁻¹) | 500~750 | 700~1000 | 450~600 | 1200~1800 | 670~1000 |
| Power Consumption (W) | 10 | | | | 26 |
| Screw Size (mm) | Machine Screw | | 1.6~2.6 | | 1.0~3.0 |
| | Tapping Screw | | 1.4~2.3 | | 1.0~2.6 |
| Bit Type | | | | | |
| Mass (g) | 230 | | | 300 | |

| Model | DLC0350E | DLC0350F | DLC0350G | DLC0950E | DLC0950G |
|-------------------|---------------------|----------|----------|---------------------|----------|
| Input Voltage (V) | 100 VAC | 115 VAC | 230 VAC | 100 VAC | 230 VAC |
| Power Supply Plug | Asia+Grounding Wire | USA | UK | Asia+Grounding Wire | UK |
| Mass (g) | 900 | | | 1800 | |

Standard Accessories

| No. | DLV5720 | DLV5720H | DLV5740 | DLV5740H | DLV5750 |
|--------------------------------|-----------------|----------|---------|----------|---------|
| Bit | No.0 x 1.8 x 44 | 1 | | | |
| | No.0 x 2.5 x 44 | 1 | | 1 | |
| | No.1 x 4 x 44 | | | 1 | |
| Connection Cable (1.5M)DLW9081 | 1 | | | 1 | |
| Suspension bail | 1 | | | 1 | |
| Spring for Low Torque | 1 | | | | |

Torque Diagrams (for reference)

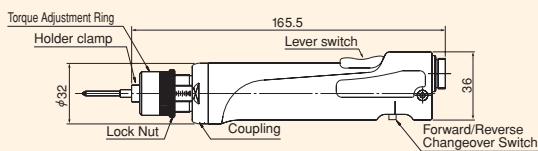


Optional Accessories

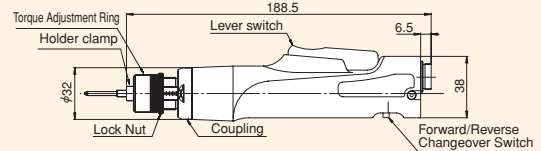


External Dimensions

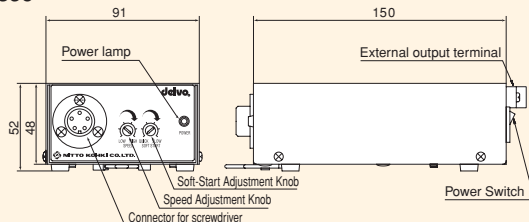
●DLV5720 / 5720H / 5740



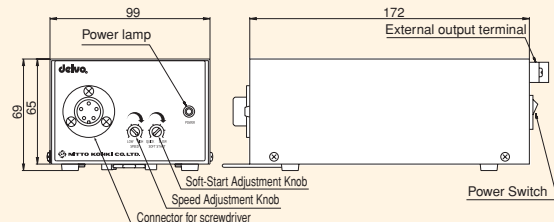
●DLV5740H / 5750



●DLC0350



●DLC0950



Unit: mm

DLV5800series

■ For Miniature Screws (1mm~2.6mm)

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.

- Clear disengagement of clutch (low-shock mechanism unavailable)
- Grounded bit installation mechanism
- Complied with EN100015-1
- New lever is adopted.
- Low swing bit mechanism
- Low voltage transless controller



DLV5820 / 5820H / 5840

DLC0250E

Specifications

| Model | DLV5820 | DLV5820H | DLV5840 |
|---------------------------------|--------------------------------------|----------------------|----------------------|
| Starting Method | | Lever Start | |
| Input Voltage | Supply from the dedicated controller | | |
| Torque Adjustment | Stepless | | |
| Torque (N·m) | | 0.02-0.20 | 0.15-0.40 |
| Free Speed (min ⁻¹) | 750 | 1,000 | 600 |
| Power Consumption (W) | 10 | | |
| Screw Size | Machine Screw Tapping Screw | M1.0~2.3 M1.0~2.0 | M1.6~2.6 M1.4~2.3 |
| Bit Type (mm) | | | |
| Mass (kg) | 0.23 | | |
| Cord length (m) | 1.5 (with connector) | | |
| Grounding bit feature | Equipped as standard | | |

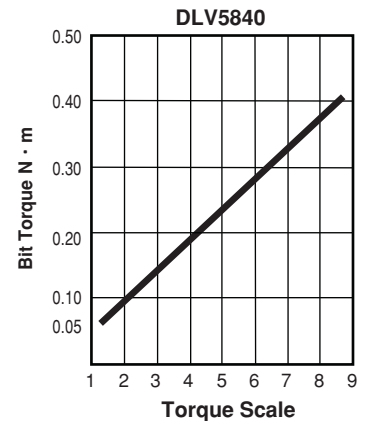
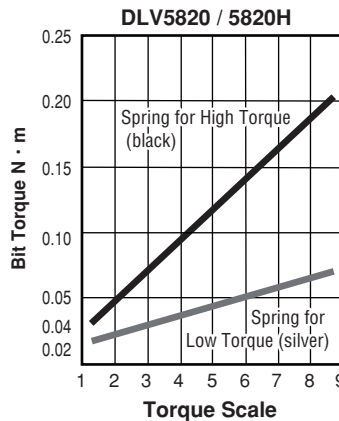
| Model | DLC0250E |
|-------------------|---|
| Input Voltage | 100VAC, 50/60Hz |
| Function | Automatic stop Grounded Bit Installation Mechanism |
| Mass (kg) | 0.3 |
| Power Supply Plug | UL plug |
| Case material | Antistatic material |

* Electric screwdrivers DLV5800 series can be also used with DLC0350 & DLC0950.

Standard Accessories

| No. | DLV5820 | DLV5820H | DLV5840 |
|--------------------------------|---------|----------|---------|
| No.0 x 1.8 x 44 | 1 | - | - |
| No.0 x 2.5 x 44 | 1 | - | 1 |
| No.1 x 4 x 44 | - | - | 1 |
| Suspension ball | 1 | - | 1 |
| Connection cable (1.5M) | 1 | - | 1 |
| Spring for low torque (Silver) | 1 | - | - |

Torque Diagrams (for reference)

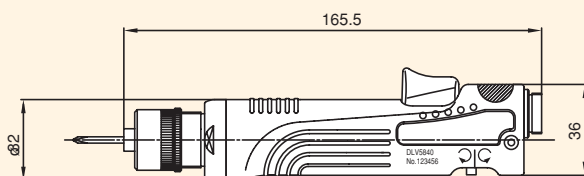


Optional Accessories

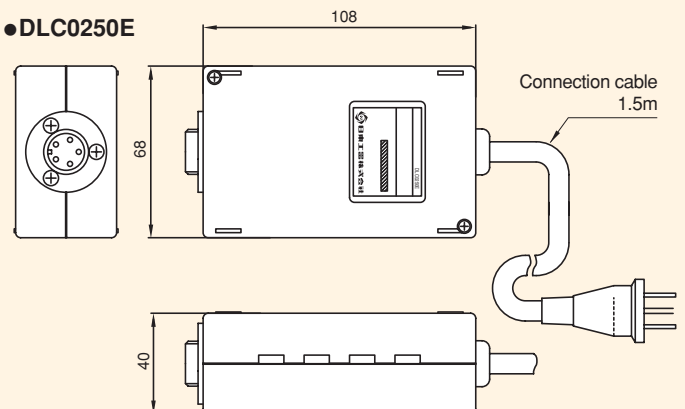


External Dimensions

●DLV5820 / 5820H / 5840



●DLC0250E



Unit: mm

DLV5800series

DLV7800series

■ For Miniature Screws (1mm~3mm)

Features

Space saving model with compact controller for low torque

- Small size and light weight.
- Bit earth model available.
- Torque adjusting ring cover is attached as standard.
(for DLV7810 series)



Specifications

| | | Standard | | with Bit Ground | |
|---------------|---------------------------------|--------------------------------|----------------------|-----------------|----------------------|
| Screwdriver | Model | DLV7810-EMN | DLV7820-EMN | DLV7810-SB | DLV7820-SB |
| | Starting Method | Lever Start | | | |
| | Torque Adjustment | Stepless | | | |
| | Torque (N·m) | 0.02~0.15 | 0.13~0.50 | 0.02~0.15 | 0.13~0.50 |
| | Free Speed (min ⁻¹) | 1,000 | | | |
| | Power Consumption (W) | Approx.25 | | | |
| | Screw Size (mm) | Machine Screw Tapping Screw | Up to 2 Up to 1.7 | 1~3 1.2~2.6 | Up to 2 Up to 1.7 |
| Bit Type (mm) | | | | | |
| Mass (g) | 350 | | | | |
| Controller | Model | DLC2110-EN | | DLC2110-ENB | |
| | Input Voltage | 100 VAC, 50/60Hz | | | |
| | Shape of Plug for Power Supply | Asia | | USA | |
| | Mass (g) | 90 | | | |

Standard Accessories

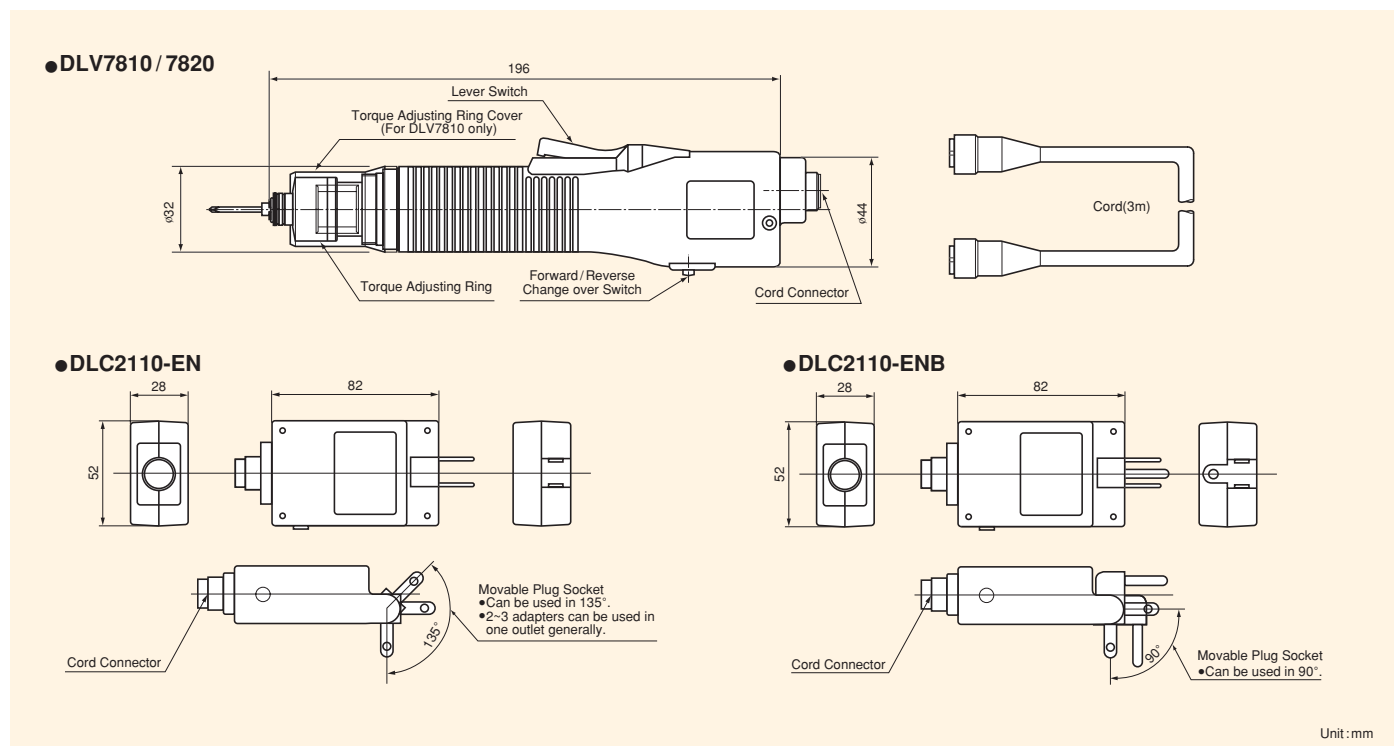
| Bit | No. | DLV7810 | DLV7820 |
|-----------------|-----------------|---------|---------|
| Bit | No.0 x 1.8 x 44 | 1 | — |
| | No.0 x 2.5 x 44 | 1 | 1 |
| | No.1 x 4 x 44 | — | 1 |
| Suspension Bail | | 1 | |

Controller



N.B., controller does not come with screwdriver.

External Dimensions



Unit:mm

DLV7300series

■ For Miniature Screws (1mm~3.5mm)

Features

Slim, Compact and Lightweight in Ergonomics

- High repetitive torque accuracy.
- Meets ISO Class 5 clean room operation. (DLV7325 / 7335)
- Stepless speed adjustment and soft start functions. (DLC1213A)



Specifications

| | | Standard | | | Clean room use | |
|-------------|---------------------------------|---------------|----------------------------|----------------------------|----------------|---------------|
| Screwdriver | Model | DLV7313-CME | DLV7323-CME DLV7321-CME | DLV7333-CME DLV7331-CME | DLV7325-CME*1 | DLV7335-CME*1 |
| | Bit Shank: ø4mm | | | | | |
| | Bit Shank: Hex.6.35mm | | DLV7323-CKE DLV7321-CKE | DLV7333-CKE DLV7331-CKE | DLV7325-CKE | DLV7335-CKE |
| | Starting Method | | | Lever Start | | |
| | Input Voltage | | | 24VDC | | |
| | Torque Adjustment | | | Stepless | | |
| | Torque (N·m) | 0.03~0.15 | 0.05~0.5 | 0.3~1.2 | 0.05~0.5 | 0.3~1.2 |
| | Free Speed (min ⁻¹) | 700~1000 | | 500~700 | 700~1000 | 500~700 |
| | Power Consumption (W) | | | Approx.26 | | |
| | Screw Size | Machine Screw | Up to 2 | 1~3 | 2~3.5 | 1~3 |
| | | Tapping Screw | Up to 1.7 | 1.2~2.6 | 2~3 | 1.2~2.6 |
| | Bit Type (mm) | For CME | | | | |
| | | For CKE | | | | |
| | Mass (g) | 350 | | | 400 | |

*1 : Vacuum pump for suction of screw is available as option. See page 24 for details of the vacuum pump.

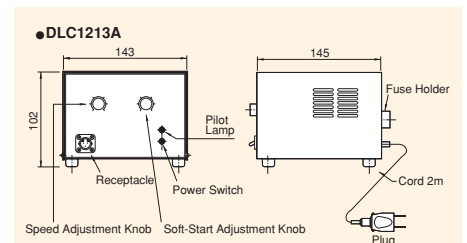
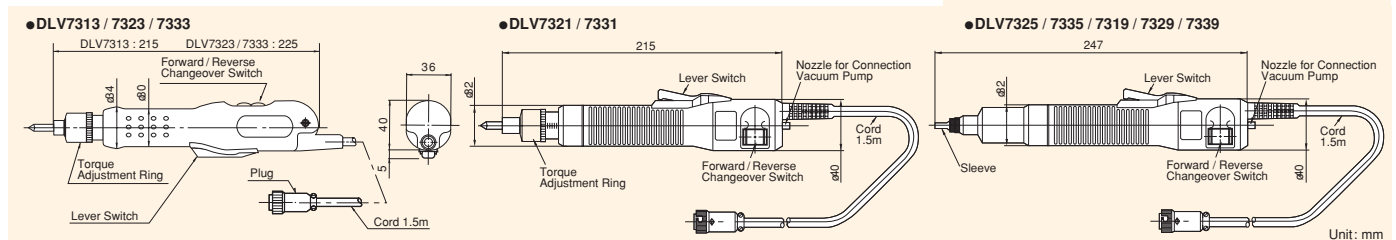
| Controller | Model | Features | Input Voltage | Control Function | Shape of Plug for Power Supply | Mass(kg) |
|------------|---------------|---------------------------------|---------------|--|--------------------------------|----------|
| | DLC1213A-EN | Standard | 100 VAC | Auto stop, Soft start, Speed control | Asia | 2.3 |
| | DLC1213A-FE*1 | Standard | 115 VAC | | Europe | |
| | DLC1213A-GE | Standard | 220 VAC | | UK | |
| | DLC1213A-GG U | With CE Mark | 230 VAC | | Without Plug | |
| | DLC1213A-HE | Standard | 240 VAC | Auto stop | Asia | 0.36 |
| | DLC1215-EN | 2 Screwdrivers for 1 Controller | 100 VAC | | | |
| | DLC1215-GE | 2 Screwdrivers for 1 Controller | 220 VAC | Auto stop | | 9 |
| | DLC2310-CE | Multiple Controller | 24 VAC | | | |
| | DLE3610-EN | Power Supply for DLC2310-CE | 100 VAC | | Asia | |

*1 : This model is made to order. *2 : See page 15 for details of the models other than DLC1213A series.

Standard Accessories

| | No. | DLV7313 -CME | DLV7321 / 23 -CME | DLV7331 / 33 -CME | DLV7321 / 23 / 31 / 33-CKE | DLV7325 -CME | DLV7335 -CME | DLV7325 / 35 -CME |
|-----------------|-----------------|-----------------|----------------------|----------------------|-------------------------------|-----------------|-----------------|----------------------|
| Bit | No.0 x 1.8 x 44 | 1 | — | — | — | — | — | — |
| | No.0 x 2.5 x 44 | 1 | 1 | — | — | 1 | — | — |
| | No.1 x 3 x 44 | — | — | 1 | — | — | 1 | — |
| | No.1 x 4 x 44 | — | 1 | — | — | 1 | — | — |
| | No.1 x 7 x 50 | — | — | — | 1 | — | — | — |
| | No.2 x 4 x 44 | — | — | 1 | — | — | 1 | — |
| | No.2 x 4.5 x 50 | — | — | — | — | — | — | 1 |
| No.2 x 7 x 50 | — | — | — | 1 | — | — | — | |
| Sleeve | DLS2124 | — | — | — | — | 1 | — | — |
| | DLS2127 | — | — | — | — | 1 | 1 | — |
| | DLS2130 | — | — | — | — | 1 | 1 | — |
| | DLS2134 | — | — | — | — | — | 1 | — |
| | DLS2135 | — | — | — | — | — | — | 1 |
| Suspension Bail | | | | | 1 | | | |

External Dimensions



DLV7300series

DLV7300-BMEseries

■ For Machine Screws (1mm~3.5mm)

Features

The DLV73□□-B□□ prevents static electricity from any precision products which are vulnerable to it. Furthermore, very small impact in fastening enables high quality production.



DLC1213A-□□B

Specifications

| | | ESD | | ESD / Low Shock | | | | |
|-------------|---------------------------------|---|------------------------------|------------------------------|---------------|---------------|------------------------------|----------|
| Screwdriver | Model | Bit Shank:φ4mm Bit Shank:Hex. 6.35mm | DLV7321-BME*1 DLV7321-BKE | DLV7331-BME*1 DLV7331-BKE | DLV7319-BME*1 | DLV7329-BME*1 | DLV7339-BME DLV7349-BME*1 | |
| | Starting Method | | Lever Start | | | | | |
| | Input Voltage | | 24VDC | | | | | |
| | Torque Adjustment | | Stepless | | | | | |
| | Torque (N·m) | | 0.05~0.5 | 0.3~1.2 | 0.2~0.4 | 0.25~0.55 | 0.45~0.95 | 0.55~1.2 |
| | Free Speed (min ⁻¹) | | 700~1,000 | 500~700 | 700~1,000 | | 500~700 | |
| | Power Consumption (W) | | 26 | | | | | |
| | Screw Size (mm) | Machine Screw | 1~3 | 2~3.5 | 2~3 | | 3~3.5 | |
| | | Tapping Screw | 1.2~2.6 | 2~3 | 2~2.6 | | 2.6~3 | |
| | Bit Type (mm) | For BME | | | | | | |
| For BKE | | | | | | | | |
| Mass (g) | | 350 | | | 400 | | | |

*1 : These models are made to order.

| Controller | Model | Input Voltage | Shape of Plug for Power Supply | Control | Mass(kg) |
|------------|----------------|-----------------|--------------------------------|--|----------|
| | DLC1213A-ENB | 100VAC, 50/60Hz | USA | Grounding, Auto Stop, Soft Start, Speed Control | 2.3 |
| | DLC1213A-FEB*1 | 115VAC, 50/60Hz | USA | | |
| | DLC1213A-GGB | 230VAC, 50/60Hz | Europe | | |
| | DLC1213A-HEB | 240VAC, 50/60Hz | UK | | |

*1 : This model is made to order.

| Measurement point | | Conventional product | DLV7309-BM□ |
|--------------------------|------------------------|---------------------------|------------------|
| Handle | Static Electricity (V) | 350 | 5 |
| | Surface Resistance (Ω) | more than10 ¹³ | 10 ⁴ |
| Lever Switch | Static Electricity (V) | 350 | 2 |
| | Surface Resistance (Ω) | more than10 ¹³ | 10 ⁴ |
| Forward / Reverse Switch | Static Electricity (V) | 25 | 2 |
| | Surface Resistance (Ω) | more than10 ¹³ | 10 ¹⁰ |

| Part | Material |
|---------------------|-----------------------------------|
| Handle Lever Switch | Synthetic resin with carbon fiber |
| Power Cable | Anti-static material |

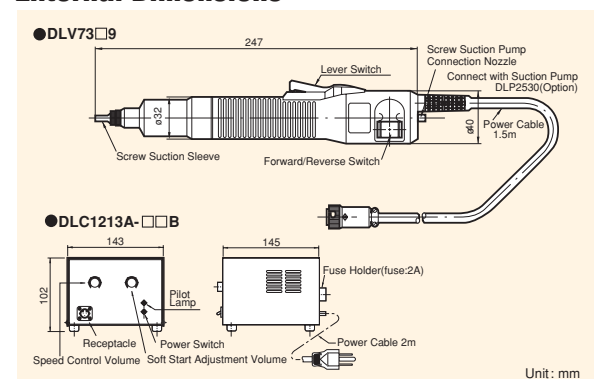
*Measurement conditions (Temperature:22°C Humidity:66%)

- (1) Static electricity ●Earth the measurement equipment and measuring person.
 ●Grip the screwdriver five times using Ansel Edmont electronic control glove.
 ●Turn on the switch of the screwdriver. ●Measure each part of the screwdriver using electronic measurement equipment manufactured by Shishido electrostatic Ltd.
 (2) Surface resistance ●Measure using Simco Japan surface resistivity measurement equipment.

Standard Accessories

| | No. | DLV7319/29 -BME | DLV7339/49 -BME | DLV7321 -BME | DLV7331 -BME | DLV7321/31 -BKE |
|-----------------|-----------------|--------------------|--------------------|-----------------|-----------------|--------------------|
| Bit | No.0 x 2.5 x 44 | 1 | — | 1 | — | — |
| | No.1 x 3 x 44 | — | 1 | — | 1 | — |
| | No.1 x 4 x 44 | 1 | — | 1 | — | — |
| | No.1 x 7 x 50 | — | — | — | — | 1 |
| | No.2 x 4 x 44 | — | 1 | — | 1 | — |
| | No.2 x 7 x 50 | — | — | — | — | 1 |
| Sleeve | DLS2124 | 1 | — | — | — | — |
| | DLS2127 | 1 | 1 | — | — | — |
| | DLS2130 | 1 | 1 | — | — | — |
| | DLS2134 | — | 1 | — | — | — |
| Suspension Bail | | | | 1 | | |

External Dimensions



Unit : mm

DLV7000/8000series

■ For Miniature Screws (1mm~3.5mm)

Features

100 / 115 VAC Direct Transformer-less Precision Miniature Screw Type

- A built-in controller model saves space and facilitates layout change.
- High repetitive torque accuracy.
- There is a lever start type (DLV7000 series) for each screw alignment and a push to start type (DLV8000 series) for rapid screw tightening.
- The high speed type (DLV7031 / 8031) available at 1200min⁻¹ for improving work efficiency. (100V only)

DLV7000 series

DLV8000 series



Specifications

| | | Standard | | | | High Speed | | |
|---------------|---------------------------------|-------------------------------|---------------|---------------|---------------|-------------|---------------|--|
| Screwdriver | Model | 100VAC Input DLV7020-EMN | DLV7030-EMN | DLV8020-EMN | DLV8030-EMN | DLV7031-EMN | DLV8031-EMN | |
| | | 115VAC Input DLV7020-FME*1 | DLV7030-FME*1 | DLV8020-FME*1 | DLV8030-FME*1 | | | |
| | Starting Method | Lever Start | | Push to Start | | Lever Start | Push to Start | |
| | Torque Adjustment | Stepless | | | | | | |
| | Torque (N·m) | 0.05~0.55 | 0.3~1.1 | 0.1~0.55 | 0.3~1.1 | 0.3~1.0 | | |
| | Free Speed (min ⁻¹) | 900 | 650 | 900 | 650 | 1,200 | | |
| | Power Consumption (W) | Approx. 25 | | | | | | |
| | | Approx. 30 | | | | | | |
| | Screw | Machine Screw | 1~3 | 2~3.5 | 1~3 | 2~3.5 | 2~3 | |
| | Size (mm) | Tapping Screw | 1.2~2.6 | 2~3 | 1.2~2.6 | 2~3 | 2~3 | |
| Bit Type (mm) | | | | | | | | |
| Mass (g) | 400 | | 410 | | 400 | 410 | | |

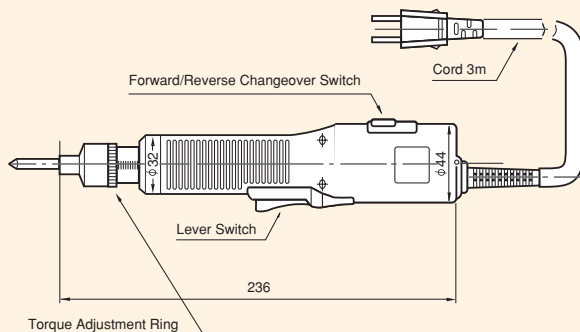
*1 : These models are made to order.

Standard Accessories

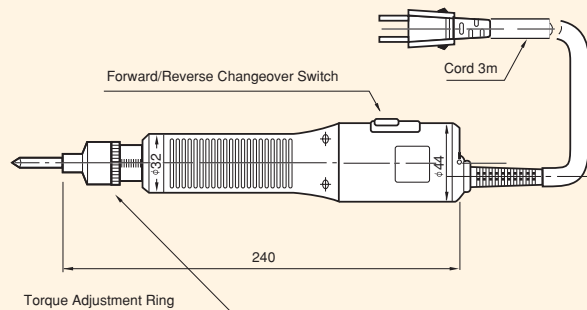
| Bit | No. | DLV7020 / 8020 | DLV7030 / 8030 / 7031 / 8031 |
|-----------------|-----------------|----------------|------------------------------|
| | No.0 x 2.5 x 44 | 1 | — |
| | No.1 x 3 x 44 | — | 1 |
| | No.1 x 4 x 44 | 1 | — |
| | No.2 x 4 x 44 | — | 1 |
| Suspension Bail | | 1 | |

External Dimensions

● DLV7020 / 7030 / 7031



● DLV8020 / 8030 / 8031



Unit: mm

DLV7000/8000series

DLV7100/7200/8100/8200series

■ For Machine Screws (2.6mm~6mm)

Features

Long Time Selling, Reliable, and High Performance

- A space saving model without transformer.
- High repetitive torque accuracy.
- The lever start type DLV7100 / 7200 series is useful for assembly requiring temporary screw tightening.
- The DLV8100 / 8200 series is the push to start type that is useful for continuous screw tightening.
- High speed type DLV7251 / 8251 series with a grip for tightening 6 mm machine screws is available.



Specifications

| Model | 100VAC Input | Standard | | | High Speed | | | High Torque | Standard | | | High Torque | High Speed | | | High Torque | | | | | | |
|---------------------------------|--------------|---------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-------|-----|--|--|
| | | DLV7120-EJN | DLV7130-EJN | DLV7140-EJN | DLV7220-EJN | DLV7231-EJN | DLV7241-EJN | DLV7251-EKN | DLV8120-EJN | DLV8130-EJN | DLV8140-EJN | DLV8150-EKN | DLV8220-EJN | DLV8231-EJN | DLV8241-EJN | DLV8251-EKN | | | | | | |
| | 230VAC Input | DLV7120-JJE | DLV7130-JJE | DLV7140-JJE | | | | DLV8120-JJE*1 | DLV8130-JJE | DLV8140-JJE | | | | | | | | | | | | |
| | | DLV7120-JKE | DLV7130-JKE | DLV7140-JKE | | DLV7221-JKE | | DLV8120-JKE | DLV8130-JKE | DLV8140-JKE | DLV8150-JKE | | DLV8221-JKE | | | | | | | | | |
| Starting Method | | Lever Start | | | | | | Push to Start | | | | | | | | | | | | | | |
| Torque Adjustment | | Stepless | | | | | | | | | | | | | | | | | | | | |
| Torque (N·m) | | 0.25-0.75 | 0.50-1.70 | 1.20-3.00 | 0.35-0.70 | 0.35-0.70 | 0.50-1.70 | 1.20-3.00 | 2.00-4.50 | 0.25-0.75 | 0.50-1.70 | 1.20-3.00 | 2.00-4.50 | 0.35-0.70 | 0.35-0.70 | 0.50-1.70 | 1.20-3.00 | 2.00-4.50 | | | | |
| Free Speed (min ⁻¹) | | 900 | 900 | 600 | 3,000 | 1,800 | 1,800 | 1,100 | 700 | 900 | 900 | 600 | 400 | 2,800 | 1,800 | 1,800 | 1,100 | 700 | | | | |
| Power Consumption (W) | | Approx. 35 | | | Approx. 45 | | | Approx. 35 | | | Approx. 45 | | | | | | | | | | | |
| Screw Size (mm) | | Machine Screw | 2.6-3 | 2.6-4 | 3.5-5 | 2.6-3 | 2.6-3 | 2.6-4 | 3.5-5 | 4.5-6 | 2.6-3 | 2.6-4 | 3.5-5 | 4.5-6 | 2.6-3 | 2.6-3 | 2.6-4 | 3.5-5 | 4.5-6 | | | |
| Screw Size (mm) | | Tapping Screw | 2.3-3 | 2.3-3.5 | 3-4 | 2.3-3 | 2.3-3 | 2.3-3.5 | 3-4 | 4-5 | 2.3-3 | 2.3-3.5 | 3-4 | 4-5 | 2.3-3 | 2.3-3 | 2.3-3.5 | 3-4 | 4-5 | | | |
| Bit Type (mm) | | For EJN / JJE | | | | | | | | | | | | | | | | | | | | |
| Bit Type (mm) | | For EKN / JKE | | | | | | | | | | | | | | | | | | | | |
| Mass (g) | | 700 | | | 700 | | | 890 | | | 690 | | | 890 | | | 690 | | | 890 | | |

*1 : This model is made to order.

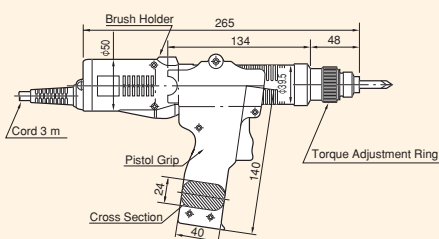
*2 : Bit Shank; "-□J□"=Hex.5mm, "-□K□"=Hex.6.35mm

Standard Accessories

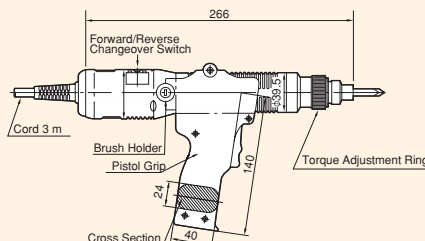
| Bit | No. | EJN / JJE | JKE except DLV8150-JKE | EKN / DLV8150-JKE |
|--------------------|-----|-----------|------------------------|-------------------|
| No.1 x 6 x 70 | 1 | 1 | — | — |
| No.1 x 7 x 75 | — | — | 1 | — |
| No.2 x 6 x 70 | 1 | — | — | — |
| No.2 x 7 x 75 | — | — | 1 | 1 |
| No.3 x 7 x 50 | — | — | — | 1 |
| Spare Carbon Brush | | 2 | | |
| Suspension Bail | | 1 | | |

External Dimensions

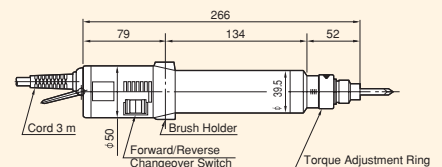
●DLV7251



●DLV8150 / 8251



●DLV8120 / 8130 / 8140 / 8220 / 8221 / 8231 / 8241



Unit : mm

DLV7100/7200/8100/8200series

DLV3100/3300series

■ Automatic Assembly Robot Models(1mm~6mm)

Features

A Labor-Saving "delvo" for Automatic Machines

- Vibration-proof and shock-proof.
- High repetitive torque accuracy.
- Torque-up signal output.

※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 100VAC power source and are made to order.

- DLV3128-EJN
- DLV3138-EJN
- DLV3148-EJN
- DLV3158-EJN

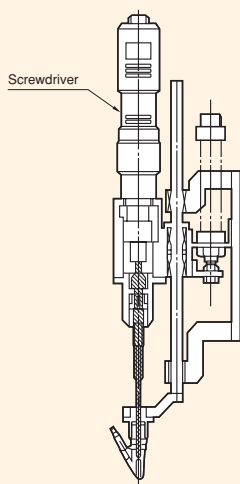


Specifications

| | | For Miniature Screws | | For Machine Screws | | | |
|---------------|---------------------------------|----------------------------------|-------------|----------------------|----------------|----------------|----------------|
| Screwdriver | Model | DLV3321-CMN | DLV3331-CMN | DLV3121-EJN ※1 | DLV3131-EJN ※1 | DLV3141-EJN ※1 | DLV3151-EJN ※1 |
| | Input Voltage | 24 VDC(supplied from controller) | | 100 VAC, 50/60Hz | | | |
| | Torque Adjustment | Stepless | | | | | |
| | Torque (N·m) | 0.05~0.5 | 0.3~1.2 | 0.25~0.7 | 0.5~1.5 | 1.2~3.0 | 2.0~4.5 |
| | Free Speed (min ⁻¹) | 900 | 600 | 900 | 600 | 450 | 450 |
| | Power Consumption (W) | Approx 6 | | Approx 35 | | | |
| | Screw Size (mm) | Machine Screw | 1~3 | 2~3.5 | 2.3~2.6 | 2.6~3.5 | 3.5~5 |
| | Tapping Screw | 1.2~2.6 | 2~3 | 2.3~3 | 2.5~3.5 | 3~4 | 4~5 |
| Bit Type (mm) | Special bit | | | 5mm hex standard bit | | | |
| Mass (g) | 400 | | | 900 | | | |

| | | |
|------------|------------------|-----------------|
| Controller | Model | DLC3310 |
| | Input Voltage | 24 VAC, 50/60Hz |
| | Output Voltage | 24 VDC |
| | Control Function | Autostop |
| | Mass (g) | 360 |

Installation Example



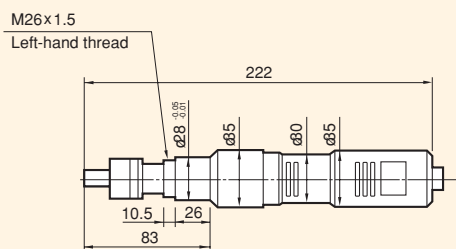
Standard Accessories

| | |
|--------------------|------------------------|
| Model | DLV3121/3131/3141/3151 |
| Cable | 1 |
| Spare Carbon Brush | 2 |

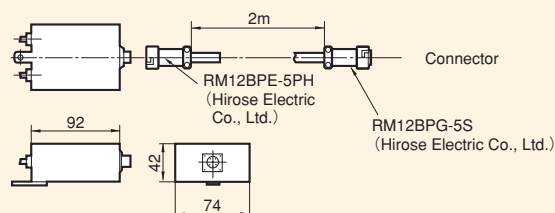
※ The 2m cord exclusively for DLV3321/3331 comes with DLC3310 as a standard accessory.

External Dimensions

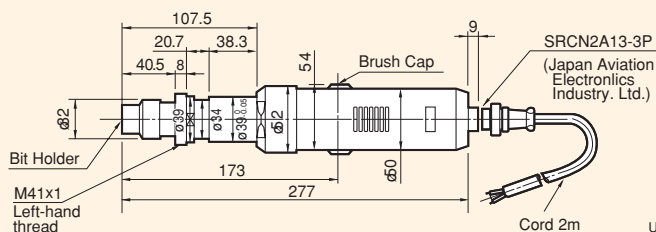
●DLV3321/3331



●DLC3310 (Optional)



●DLV3121/3131/3141/3151



Unit: mm

DLV3100/3300series

DLV7500/8500series

■ For Machine Screws (2.6mm~6mm)

Features

Ergonomic and Compact

The new "delvo" fulfills the workers needs for low vibration, low noise, and easy gripping in a compact design.

High Torque Accuracy

The new "delvo" achieves an accurate and consistent torque with an easily visible torque reach light. The combination of an advanced clutch design and the auto-stop circuit assures torque accuracy.

High Durability

More than a million screws can be accurately tightened with the durable gear/clutch mechanism. The long life motor with a yoke made of advanced materials further assures a long service life.

Product Safety

The new "delvo" fully complies with European CE safety standards (89/336/EEC, 92/31/EEC, 73/23/EEC). An antistatic option is available.

Firm torque control

The torque reach light goes on when the set torque is reached.

Easy Forward / Reverse Operation

Horizontal rocker switch is easy to operate with the thumb.

Non-slipping Grip, Easy to Grasp

The non-slip surface and shape allows the operator to firmly hold the tool, even at the highest torque settings.

Power Cord Connector

The power cord is easily detached and replaced allowing easy repair or workstation redesign.

Easy Maintenance Design

Modular design assures easy maintenance.

Pull for Bit Release

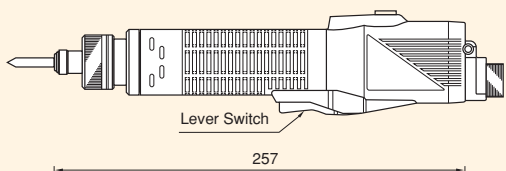
Holds the bit securely, preventing inadvertent release.

Antistatic(ESD)

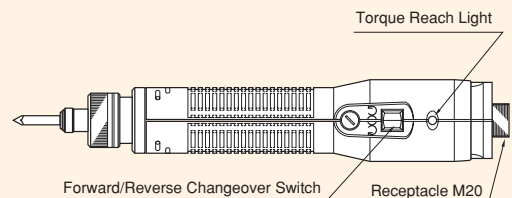
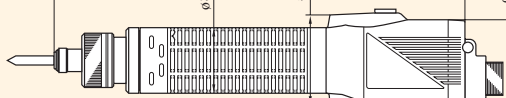
The DLV7500 / 8500-BKE uses the conductible synthetic resin frame body to protect any products which are vulnerable to static electricity. It complies with European static electricity standards (EN100015-1).

External Dimensions

● DLV7500series



● DLV8500series



Unit:mm

DLV7500/8500series

■ For Machine Screws (2.6mm~6mm)



Specifications

| | | Standard | | High Torque | Standard | | High Torque | |
|-------------|---------------------------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------|
| Screwdriver | Model | Standard DLV7530-MKE ESD DLV7530-BKE | DLV7540-MKE DLV7540-BKE | DLV7550-MKE DLV7550-BKE | DLV8530-MKE DLV8530-BKE | DLV8540-MKE DLV8540-BKE | DLV8550-MKE DLV8550-BKE | |
| | Starting Method | Lever Start | | | Push to Start | | | |
| | Input Voltage | 34VDC | | | | | | |
| | Torque Adjustment | Stepless | | | | | | |
| | Torque (N·m) | 0.5~1.7 | 1.2~2.7 | 2.0~4.5 | 0.5~1.7 | 1.2~2.7 | 2.0~4.5 | |
| | Free Speed (min ⁻¹) | 1,100 | 700 | 500 | 1,100 | 700 | 500 | |
| | Screw Size (mm) | Machine Screw | 2.6~4 | 3.5~5 | 4.5~6 | 2.6~4 | 3.5~5 | 4.5~6 |
| | | Tapping Screw | 2.3~3.5 | 3~4 | 4~5 | 2.3~3.5 | 3~4 | 4~5 |
| | Bit Type (mm) | | | | | | | |
| | Mass (g) | 650 | 650 | 750 | 650 | 650 | 750 | |

| Measurement point | | Conventional product | DLV7500-BKE |
|--------------------------|------------------------|---------------------------|------------------|
| Handle | Static Electricity (V) | 350 | 5 |
| | Surface Resistance (Ω) | more than10 ¹³ | 10 ⁴ |
| Lever Switch | Static Electricity (V) | 350 | 2 |
| | Surface Resistance (Ω) | more than10 ¹³ | 10 ⁴ |
| Forward / Reverse Switch | Static Electricity (V) | 25 | 2 |
| Power Cable | Static Electricity (V) | 110 | 5 |
| | Surface Resistance (Ω) | more than10 ¹³ | 10 ¹⁰ |

| Part | Material |
|---------------------|-----------------------------------|
| Handle Lever Switch | Synthetic resin with carbon fiber |
| Power Cable | Anti-static material |

*Measurement conditions (Temperature:22°C Humidity:66%)

(1) Static electricity ●Earth the measurement equipment and measuring person.
 ●Grip the screwdriver five times using Ansel Edmont electronic control glove.
 ●Turn on the switch of the screwdriver. ●Measure each part of the screwdriver using electronic measurement equipment manufactured by Shishido electrostatic Ltd.
 (2) Surface resistance ●Measure using Simco Japan surface resistivity measurement equipment.

| Controller | Model | Features | Input Voltage | Mass (kg) | Size W x L x H (mm) |
|------------|---------------|--|---------------|-----------|---------------------|
| Controller | DLC4511-GGB ※ | With Speed Control and Soft Start Function | 230VAC | 3.5 | 139x140x81.5 |
| | DLR1510-JE ※ | Screw Counter | | 5.1 | 143x177x126 |

※ Shape of plug for power supply is "Europe" type.

※ Please see page 16 for details of DLC4511-GGB and DLR1510-JE.

Standard Accessories

| | No. | DLV7530/7540/ 8530/8540 | DLV7550/8550 |
|--------------------|--------------|----------------------------|--------------|
| Bit | No.1 x 7x 75 | 1 | — |
| | No.2 x 7x 75 | 1 | 1 |
| | No.3 x 7x 50 | — | 1 |
| Spare Carbon Brush | | 2 | |
| Power Cord | | 1 | |
| Suspension Bail | | 1 | |



DLC4511-GGB



DLR1510-JE

DLV7500/8500series

Multiple Controllers

■ For DLV7300 series

● AC Power Supply DLE3610/Controller DLC2310

Designed specifically for use with up to a maximum of 24 "delvo" 7300 Series Electric Screwdrivers connected with 15m extension cords drawn out on both sides (each side handles up to 12 screwdrivers), DLE3610 AC Power Supply and DLC2310 Controller can boost productivity and reduce costs of setting up production lines. The dedicated controller DLC2310 is employed for each screwdriver.

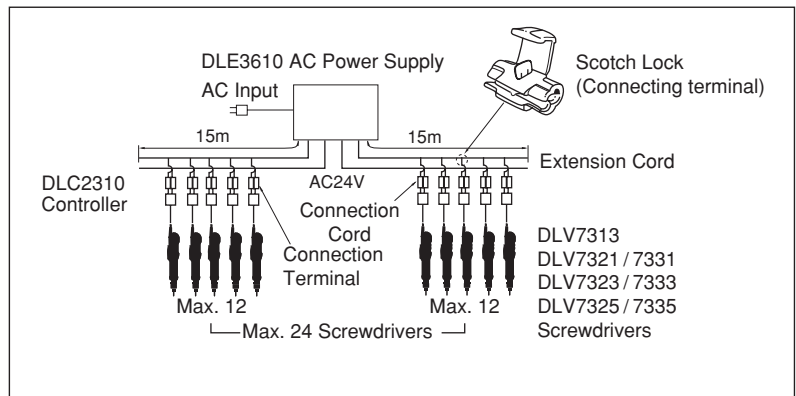


DLE3610



DLC2310

| | |
|---------------------------------------|--|
| Model | DLE3610-EN |
| Input Voltage (Primary Side) | 100 VAC, 50/60Hz |
| Secondary Output | 24 VAC, 15A |
| Capacity | 360 VA |
| External Dimensions (mm) | W190 x H134 x D188 |
| Shape of Plug for Power Supply | Asia |
| Mass (kg) | 9 |
| Accessories | Two 15m extension cords |
| Model | DLC2310-CE |
| Input Voltage (Primary Side) | 24 VAC |
| Secondary Output | 24 VDC, 2A |
| Control Function | Auto stop |
| External Dimensions (mm) | W74 x H42 x D118 |
| Mass (g) | 360 |
| Accessories | Two 0.5m connection cords and two scotch locks (Connecting terminal) |



● Multiple Controller DLC1215

DLC1215 can control two screwdrivers by one controller.

| Model | DLC1215-EN | DLC1215-GE |
|---------------------------------------|--------------------|------------|
| Input Voltage | 100 VAC | 220 VAC |
| Output Voltage | 24 VDC x 2 | |
| Control Function | Auto stop | |
| Shape of Plug for Power Supply | Asia | |
| External Dimensions (mm) | W143 x H102 x D145 | |
| Mass (kg) | 2.4 | |



DLC1215

NOTE; Each "delvo" screwdriver should be operated independently when tightening screws even though this controller will support up to two "delvo" screwdrivers. Operating two units simultaneously may cause malfunction of the controller.

Multiple Controllers

Controller with Speed Adjustment and Screw Counter

■ For DLV7500/8500 series

● DLC4511-GGB/DLR1510-JE



DLC4511-GGB



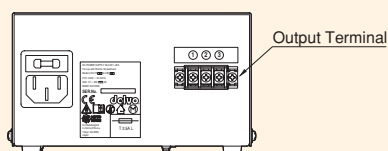
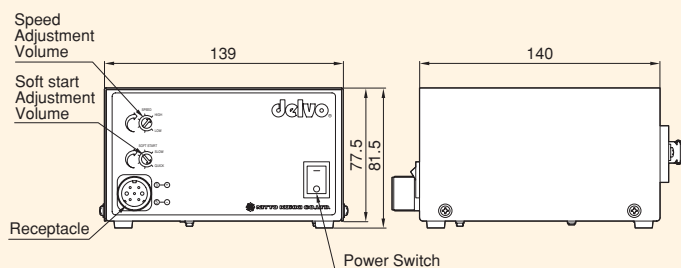
DLR1510-JE

Specifications

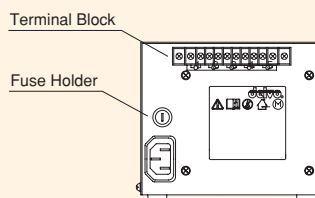
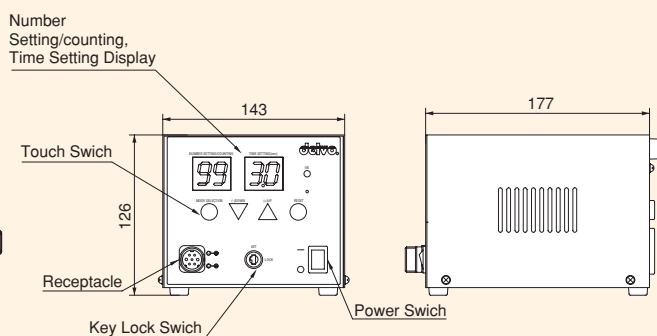
| Model | Control Function | Input Voltage | Mass (kg) | Size W x L x H (mm) |
|-------------|---|---------------|-----------|---------------------|
| DLC4511-GGB | Stepless speed adjustment - 80~100% Soft start - adjustable time setting of slow speed (max. 3 sec) External output signals - Start and Torque up Electro-Static Discharge(ESD) Control | 230VAC | 3.5 | 139 x 140 x 81.5 |
| DLR1510-JE | 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 | | 5.1 | 143 x 177 x 126 |

External Dimensions

●DLC4511-GGB



●DLR1510-JE



Unit: mm

Torque Checker series

Features

- Have a wide measuring ranges of 0.01~0.15 N·m (DLT1133 / 1173) and 0.15~10 N·m (DLT1633 / 1673); particularly, DLT1133 / 1173 can reliably make micro-torque measurement which requires high precision.
- Store the measured data up to 100 ones even after the power is turned off, preventing any data loss. In addition, the data can be fed into a personal computer through RS-232C connector, realizing paperless control for measured torque data.
- Can run 15 hours continuously with the battery fully charged (more than two weeks on the condition of one-hour operation per day). In addition, it is of energy saving type with AUTO POWER OFF function (to turn OFF power automatically when left unused for 10 minutes).



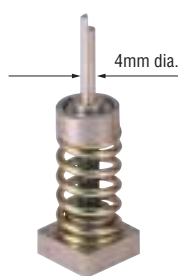
DLT1633

Specifications

| Model | DLT1133 | DLT1173 | DLT1633 | DLT1673 |
|---------------------------|---|---------|---|---------|
| Measurement range (N·m) | 0.015~1.5 | | 0.15~5.0 | |
| Calibration precision | Within±0.5% (Full Scale), For 0.2N·m or less, ±1 digit | | Within±0.5% (Full Scale), For 2N·m or less, ±1 digit | |
| Display | 4-digit digital display (Single-line) Data sampling : 1,000 times/sec Display rate : 12 times/sec | | | |
| Measuring unit | kgf · cm·N·m·lbf · in (selectable) | | | |
| Data memory | 100 pieces of data | | | |
| Measuring direction | CW and CCW | | | |
| Measuring mode | 3 modes : PD-TR-PP | | | |
| Auto power off | Powered off if left untouched for 10 minutes | | | |
| External output | As per RS232C output (single-direction, no procedure, 100 data items) | | Mitsutoyo Digimatic (sequential output) | |
| Analog output | Approx.1.5V max. | | Approx.1.0V max | |
| Rechargeable battery | Nickel-cadmium battery | | | |
| Charger Type | DLE1833 | DLE1873 | DLE1833 | DLE1873 |
| Input Voltage for Charger | 100VAC | 230VAC | 100VAC | 230VAC |
| Charging time | 8 hours | | | |
| Continuous operation time | 15 hours | | | |
| External dimensions | 160 x 110 x 47mm | | | |
| Mass (g) | 1,000 | | | |

Standard Accessories

| | Joint | Joint | Joint | Spring | Joint | Spring |
|-----------------|-----------|-----------|---------|----------|---------|----------|
| Model | DLW4340 | DLW4430 | DLW4360 | DLW4660 | DLW4360 | DLW4660 |
| Measuring (N·m) | 0.015~1.5 | 0.015~1.5 | 0.2~5.0 | 0.15~1.5 | 0.5~5.0 | 0.15~1.5 |
| Torque checker | DLT1133 | DLT1173 | DLT1633 | | DLT1673 | |



DLW4340



DLW4430



DLW4360



DLW4660 (TD03316)

Optional Accessories

| Model | Part No. | Model | Specifications | DLT1133 | DLT1173 | DLT1633 | DLT1673 |
|-------------|----------|---------|--|---------|---------|---------|---------|
| Bit Joint | TD03305 | DLW4330 | OD 4mm type, Torque Range : 0.015 to 0.25 N·m | ○ | ○ | — | — |
| | TD03306 | DLW4340 | OD 4mm type, Torque Range : 0.15 to 1.5 N·m | ◎ | ○ | ○ | ○ |
| | TD03307 | DLW4350 | Hex 5 and Hex 6.35 types, Torque Range : 0.15 to 1.5 N·m | ○ | ○ | ○ | ○ |
| | TD03308 | DLW4360 | Hex 5 and Hex 6.35 types, Torque Range : 0.5 to 5.0 N·m | — | — | ◎ | ◎ |
| Screw Joint | TD03309 | DLW4430 | #1 screw type, Torque Range : 0.15 to 1.5 N·m | ○ | ◎ | ○ | ○ |
| | TD03310 | DLW4530 | #2 screw type, Torque Range : 0.5 to 5.0 N·m | — | — | ○ | ○ |

◎ : Standard accessories ○ : Available as option — : Unsupported

Selection of Torque Checker

| | |
|---|---|
| DLT1133 / DLT1173 (for miniature screw) | DLT1633 / DLT1673 |
| DLV3300 series*1 / DLV5700 series / DLV5800 series / DLV7300 series DLV7800 series / DLV7000 series / DLV8000 series | DLV7100 series / DLV8100 series / DLV7200 series / DLV8200 series DLV7500 series / DLV8500 series / DLV3100 series*2 |

*1 A reversible screwdriver is required to loosen the measuring joint.

*2 A reversible screwdriver is required to loosen the measuring joint. Screw type joint is required.

DSF1000series

■ Screw Feeder NKBIDA

Features

The smallest ever and space saving.

- Precise screw feeding
- Prompt and steady screw feeding minimizes the waiting time for the next screw.
- ESD complied design prevents possible damage on electric parts by electrostatic discharge.
- Incorporated power supply adapter saves extra space and enables easy production line layout changes.
- Accepts screws with head thickness up to 0.15mm.



DSF1170

DSF1200

Specifications

| Model | DSF1120 | DSF1140 | DSF1170 | DSF1200 | |
|--------------------------------|--|------------|------------|------------|------------|
| Input voltage | 100V 50/60Hz | DSF1120-EN | DSF1140-EN | DSF1170-EN | DSF1200-EN |
| | 115V 50/60Hz | DSF1120-FE | DSF1140-FE | DSF1170-FE | DSF1200-FE |
| | 230V 50/60Hz | DSF1120-GE | DSF1140-GE | DSF1170-GE | DSF1200-GE |
| Applicable screw diameters | M1.2 | M1.4 | M1.7 | M2 | |
| Tank capacity * | 1,000 pcs. | 700 pcs. | 400 pcs. | 350 pcs. | |
| Screw Feed Speed | Less than one second per piece | | | | |
| Dimensions (mm) | W45 x D170 x H100 | | | | |
| Mass (g) | 1,500 | | | | |
| Power consumption (W) | 5 | | | | |
| Shape of plug for power supply | Asia | | | | |
| Accessories | Hex. Wrench : 1pc. Power cord : 1pc. of 2m | | | | |

* The tank capacity is a guideline when the tank is filled up with screws of 5mm long.

Optional tank

| Part No. | TD04943 | | | |
|------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Tank capacity ** | for DSF1120 6,000 pcs. | for DSF1140 4,000 pcs. | for DSF1170 2,400 pcs. | for DSF1200 2,000 pcs. |

** The tank capacity is a guideline when the tank is filled up with screws of 5mm long.



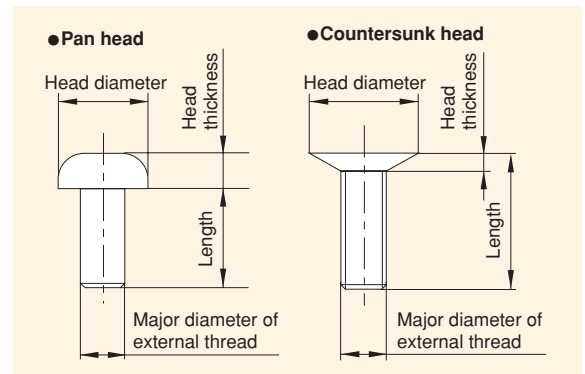
The total tank capacity can be increased by mounting optional screw container on top.

Example of use

Applicable screw size

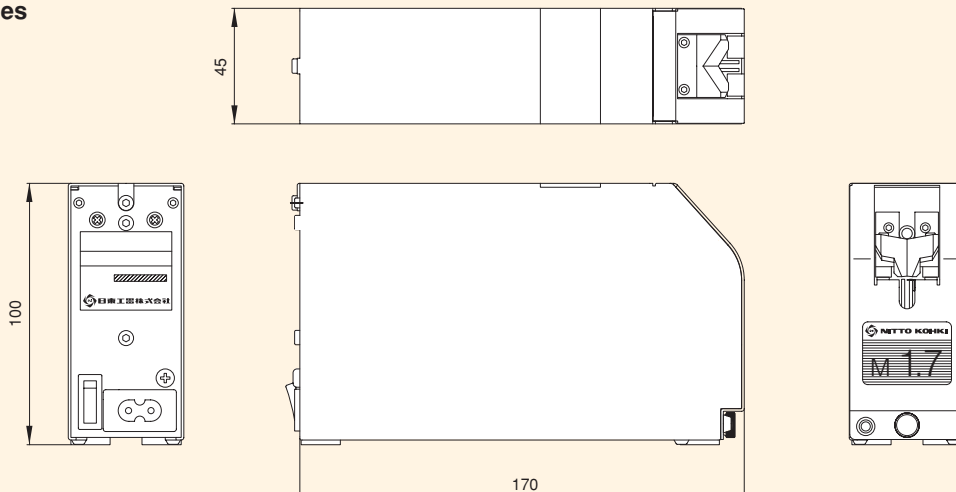
| Nominal diameter of screw | Head shape | Head diameter (mm) | Head thickness (mm) | Length (mm) | Major diameter of external thread (mm) |
|---------------------------|------------------|--------------------|---------------------|-------------|--|
| M1.2 | Pan head | 1.5~2.0 | 0.15~0.50 | 2~5 | Up to 1.2 |
| M1.4 | | 1.7~2.7 | 0.15~0.70 | | Up to 1.4 |
| M1.7 | | 1.9~3.2 | 0.15~0.90 | | Up to 1.7 |
| M2 | | 2.3~3.5 | 0.15~1.00 | | Up to 2.0 |
| M1.2 | Countersunk head | 1.5~2.0 | 0.15~0.50 | 3~5 | Up to 1.2 |
| M1.4 | | 1.7~2.7 | 0.15~0.70 | | Up to 1.4 |
| M1.7 | | 1.9~3.2 | 0.15~0.90 | | Up to 1.7 |
| M2 | | 2.3~4.2 | 0.15~1.30 | | Up to 2.0 |

* The tank capacity is a guideline when the tank is filled up with screws of 5mm long.



External Dimensions

●DSF1000series



Unit: mm

DSF1000series

DLV7100/7200/8100/8200 115V series ■ For Machine Screws (2.6mm~6mm)

DLV7100/7200/8100/8200(115V)series



Features

Complied with CNS standard of Taiwan, The Republic of China No. 13783-1

- A space saving model without transformer. High repetitive torque accuracy.
- The lever start type DLV7100/7200 series is useful for assembly requiring temporary screw tightening.

- The DLV8100/8200 series is the push to start type that is useful for continuous screw tightening.
- High speed type DLV7251/8251 series with a grip for tightening 6 mm machine screws is available.

Specifications

| Model | Bit Shank: Hex.5mm Bit Shank: Hex. 6.35mm | Standard | | | High Speed | | | High Torque | Standard | | | High Torque | High Speed | | | High Torque |
|---------------------------------|--|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | DLV7120-LJT | DLV7130-LJT | DLV7140-LJT | DLV7221-LJT | DLV7231-LJT | DLV7241-LJT | DLV7251-LJT | DLV8120-LJT | DLV8130-LJT | DLV8140-LJT | DLV8150-LJT | DLV8221-LJT | DLV8231-LJT | DLV8241-LJT | DLV8251-LJT |
| Starting Method | | Lever Start | | | | | | | Push to Start | | | | | | | |
| Input Voltage | | 115VAC, 50/60Hz | | | | | | | | | | | | | | |
| Torque Adjustment | | Stepless | | | | | | | | | | | | | | |
| Torque (N·m) | | 0.25-0.75 | 0.5-1.7 | 1.2-3.0 | 0.35-0.7 | 0.5-1.7 | 1.2-3.0 | 2.0-4.5 | 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 | 2.0-4.5 |
| Free Speed (min ⁻¹) | | 900 | 900 | 600 | 1,800 | 1,800 | 1,100 | 700 | 900 | 900 | 600 | 400 | 1,800 | 1,800 | 1,100 | 700 |
| Power Consumption (W) | | Approx. 35 | | | Approx. 45 | | | | Approx. 35 | | | Approx. 45 | | | | |
| Screw Size (mm) | Machine Screw | 2.6~3 | 2.6~4 | 3.5~5 | 2.6~3 | 2.6~4 | 3.5~5 | 4.5~6 | 2.6~3 | 2.6~4 | 3.5~5 | 4.5~6 | 2.6~3 | 2.6~4 | 3.5~5 | 4.5~6 |
| | Tapping Screw | 2.3~3 | 2.3~3.5 | 3~4 | 2.3~3 | 2.3~3.5 | 3~4 | 4~5 | 2.3~3 | 2.3~3.5 | 3~4 | 4~5 | 2.3~3 | 2.3~3.5 | 3~4 | 4~5 |
| Bit Type | For LJT | | | | | | | | | | | | | | | |
| | For LKT | | | | | | | | | | | | | | | |
| Mass (g) | | 700 | | | 700 | | | 890 | 690 | | | 890 | 690 | | | 890 |

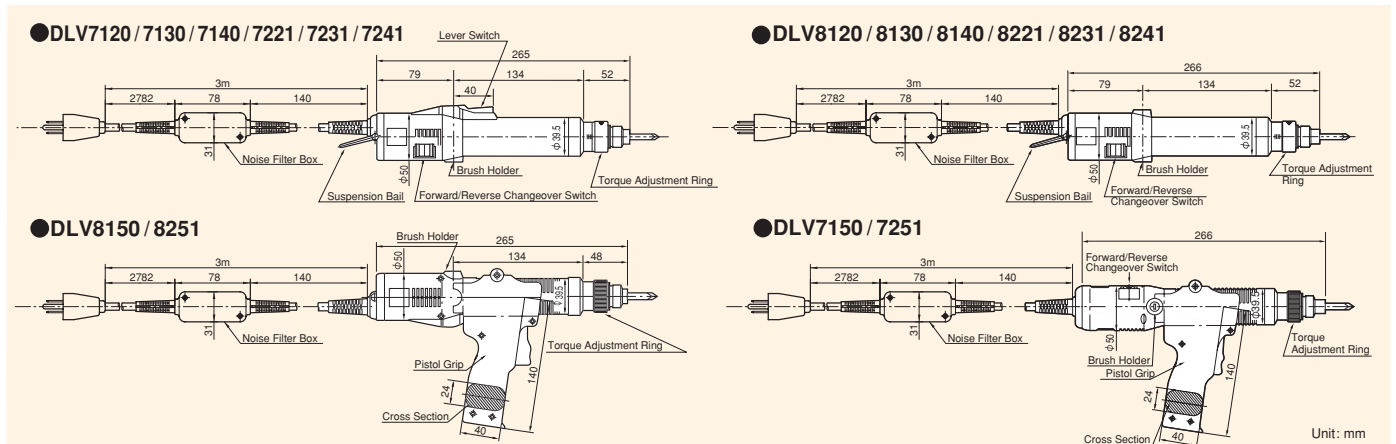
*1 : All models of LJT / LKT series are made to order.

*2 : Only Chinese instruction manual is available for LJT / LKT series.

Standard Accessories

| Bit | No. | LJT | LKT except DLV7251/8150/8251-LKT | DLV7251/8150/8251-LKT |
|--------------------|---------------|-----|----------------------------------|-----------------------|
| Bit | No.1 x 6 x 70 | 1 | — | — |
| | No.1 x 7 x 75 | — | 1 | — |
| | No.2 x 6 x 70 | 1 | — | — |
| | No.2 x 7 x 75 | — | 1 | 1 |
| | No.3 x 7 x 50 | — | — | — |
| Spare Carbon Brush | | | 2 | |
| Suspension Bail | | | 1 | |

External Dimensions



Electric screwdrivers bearing **CCC mark** (China Compulsory Certification mark) are available exclusively for China market.



Specifications

| | | | | High Torque | High Speed | | | | |
|----------------------|---------------------------------|--|-------------|-------------|-------------|--------------------------------------|-------------|-------------|--|
| Electric Screwdriver | Model (220V) | Lever Start | DLV7120-JJC | DLV7130-JJC | DLV7140-JJC | DLV8150-JJC | DLV8231-JJC | DLV8241-JJC | |
| | | Push to Start | DLV8120-JJC | DLV8130-JJC | DLV8140-JJC | DLV8150-JJC | DLV8231-JJC | DLV8241-JJC | |
| | | Lever Start | DLV7120-JKC | DLV7130-JKC | DLV7140-JKC | DLV8150-JKC | DLV8231-JKC | DLV8241-JKC | |
| | | Push to Start | DLV8120-JKC | DLV8130-JKC | DLV8140-JKC | DLV8150-JKC | DLV8231-JKC | DLV8241-JKC | |
| | Torque Adjustment | | Stepless | | | | | | |
| | Torque (N·m) | | 0.25~0.75 | 0.5~1.7 | 1.2~3.0 | 2.0~4.5 | 0.5~1.7 | 1.2~3.0 | |
| | Free Speed (min ⁻¹) | | 900 | | 600 | 400 | 1,800 | 1,100 | |
| | Power Consumption (W) | | 35 | | | | | | |
| | Screw Size (mm) | Machine Screw | 2.6~3 | 2.6~4 | 3.5~5 | 4.5~6 | 2.6~4 | 3.5~5 | |
| | | Tapping Screw | 2.3~3 | 2.5~3.5 | 3~4 | 4~5 | 2.5~3.5 | 3~4 | |
| Mass (g) | | 700 (7100series), 690 (8100 series) | | | 890 | 700 (7200 series), 690 (8200 series) | | | |
| Standard Accessories | | Each 1pc.of bit No.1×6×70 / No.2×6×70 (In the case of DLV7251 / 8150 / 8251 each 1pc.of No.2×7×75 / No.3×7×50) 1pc. Suspension Bail, 2pcs. Carbon Brush | | | | | | | |

| | | |
|----------|--|--|
| Bit (mm) | | |
|----------|--|--|

| Electric Screwdriver | | DLV7321-CMC | DLV7331-CMC | DLV7321-CKC | DLV7331-CKC |
|---------------------------------|---------------|-------------|-------------|-------------|-------------|
| Starting Method | | Lever Start | | | |
| Input Voltage | | 24VDC | | | |
| Torque Adjustment | | Stepless | | | |
| Torque (N·m) | | 0.05~0.5 | 0.3~1.2 | 0.05~0.5 | 0.3~1.2 |
| Free Speed (min ⁻¹) | | 700~1,000 | 500~700 | 700~1,000 | 500~700 |
| Power Consumption (W) | | 26 | | | |
| Screw Size (mm) | Machine Screw | 1~3 | 2~3.5 | 1~3 | 2~3.5 |
| | Tapping Screw | 1.2~2.6 | 2~3 | 1.2~2.6 | 2~3 |
| Bit (mm) | | | | | |
| Mass (g) | | 350 | | | |

| | |
|------------------|--------------------------------------|
| Controller | DLC1213-GC |
| Input Voltage | AC 220V |
| Control Function | Auto Stop, Soft Start, Speed Control |
| Mass (g) | 2300 |

| Electric Screwdriver | | DLV5720C | DLV5720HC | DLV5740C | DLV5740HC | DLV5750C |
|---------------------------------|---------------|--|-----------|----------|--|-----------|
| Starting Method | | Lever Start | | | | |
| Torque Adjustment | | Stepless | | | | |
| Torque (N·m) | | 0.02~0.2 | | 0.15~0.4 | | 0.1~0.55 |
| Free Speed (min ⁻¹) | | 500~750 | 700~1,000 | 450~600 | 1,200~1,800 | 670~1,000 |
| Power Consumption (W) | | 10 | | | 26 | |
| Screw Size (mm) | Machine Screw | 1.0~2.3 | | 1.6~2.6 | | 1.0~3.0 |
| | Tapping Screw | 1.0~2.0 | | 1.4~2.3 | | 1.0~2.6 |
| Bit (mm) | | | | | | |
| Mass (g) | | 230 | | | 300 | |
| Standard Accessories | | Bit (No.0×1.8×44·No.0×2.5×44) Each 1 piece Connection Cable (1.5M) DLW9081 : 1piece Suspension Bail : 1 piece Spring for Low Torque : 1 piece | | | Bit (No.0×2.5×44·No.1×4×44) Each 1 piece Connection Cable (1.5M) DLW9081 : 1 piece Suspension Bail : 1 piece | |
| Model | | DLC0350GC | | | DLC0950GC | |
| Input Voltage | | AC 220V | | | | |
| Mass (g) | | 900 | | | 1800 | |

※ The Controller incorporates the safe resistance that is installed between the bit and the power source cord.

DLR5040A-WN

■ Screw Fastening Counter

Features

For prevention of human fastening errors and enhanced fastening management accuracy

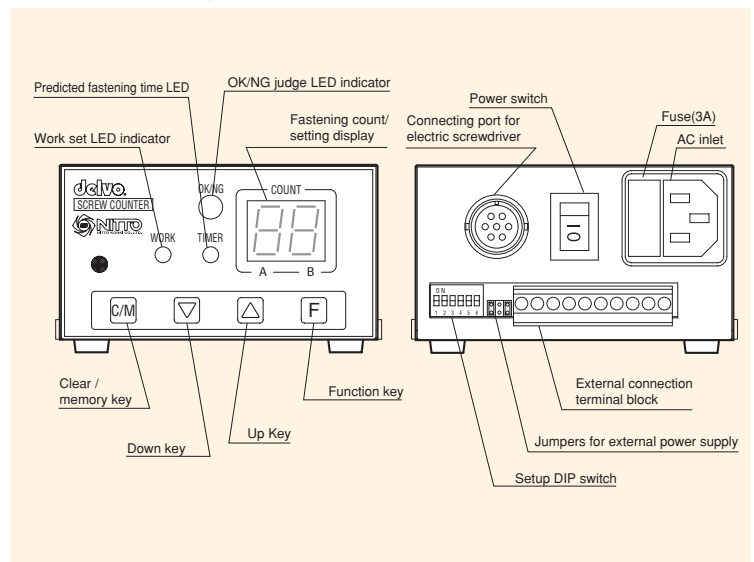
- Best suited for assembly lines of vehicle equipment and harness installation that require reliable screw fastening.
- Detection of the signals from electric screwdrivers enables highly reliable screw fastening management.
- Count Return Function : In the event of refastening, a reverse signal outputted from the electric screwdriver reverses the count by one.
- Count Correction Function : If, because of a fastening error such as elevated screw or double fastening, a torque reached signal comes before the fastening time set on the timer built in the counter elapses, no count is recognized.
- Link Connection Function : You can build up a simple sequential screw fastening system by connecting the DLR5040A-WN screw fastening 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-WN are designed on the basis of established transformerless screwdrivers.



Specifications

| Model | DLR5040A-WN |
|------------------------------------|--|
| 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 second |
| Work detection function | Yes (1 terminal) / No (with self adjustable timer) |
| External count input | 2 terminals (PARTS A / PARTS B) |
| Work installation timer setting | 0 to 3 seconds |
| OK output timer setting | 0 to 3 seconds |
| 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 / PART B |
| External outputs on terminal block | OK / NG / LINK-OUT |
| Parameter memory | Parameters stored in internal nonvolatile memory |
| Power supply | 100VAC, 50/60Hz |
| Dimensions (mm) | 100 (W) × 60 (H) × 120 (D) |
| Mass (kg) | 0.6 |
| Accessories | Power cord with U.S.A plug (1.5m) Suspension bail (2pcs.) |

Front and rear panel



Screwdrivers for DLR5040A-WN



TD04061 SPC cord for commercial power source (optional)



Dedicated screwdrivers can be directly plugged in commercial power source.

Dedicated screwdrivers

| Model | Lever start Push to start | Miniature screw (1~3.5mm) | | | | | | Machine screw (2.6~6mm) | | | | | | | | | | | | | | |
|---------------------------------|------------------------------|---|-------------|-------------|-------------|-------------|-------------|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------------|-------------|-------------|-----------|--|--|
| | | DLV7020-SPC | DLV7030-SPC | DLV7031-SPC | DLV8020-SPC | DLV8030-SPC | DLV8031-SPC | DLV7120-SPC | DLV7130-SPC | DLV7140-SPC | DLV8120-SPC | DLV8130-SPC | DLV8140-SPC | DLV8150-SPC | DLV8231-SPC | DLV7241-SPC | DLV7251-SPC | DLV8241-SPC | DLV8251-SPC | | | |
| Input Voltage | | AC100V, 50/60Hz (supplied from counter) | | | | | | | | | | | | | | | | | | | | |
| Torque Adjustment | | Stepless | | | | | | | | | | | | | | | | | | | | |
| Torque (N.m) | | 0.05~0.55 | 0.30~1.10 | 0.30~1.00 | 0.10~0.55 | 0.30~1.10 | 0.30~1.00 | 0.25~0.75 | 0.50~1.70 | 1.20~3.00 | 2.00~4.50 | 0.50~1.70 | 1.20~3.00 | 2.00~4.50 | 0.50~1.70 | 1.20~3.00 | 2.00~4.50 | 0.50~1.70 | 1.20~3.00 | 2.00~4.50 | | |
| Free speed (min ⁻¹) | | 900 | 650 | 1,200 | 900 | 650 | 1,200 | 1,000 | 700 | 450 | 2,000 | 1,200 | 700 | 2,000 | 1,200 | 700 | 2,000 | 1,200 | 700 | 2,000 | | |
| Power Consumption (W) | | 25 | | 30 | 25 | | 30 | 35 | | | 45 | | | | | | | | | | | |
| Screw Size (mm) | Machine Screw | 1~3 | 2~3.5 | 2~3 | 1~3 | 2~3.5 | 2~3 | 2.6~3 | 2.6~4 | 3.5~5 | 4.5~6 | 2.6~4 | 3.5~5 | 4.5~6 | 2.6~4 | 3.5~5 | 4.5~6 | 2.6~4 | 3.5~5 | 4.5~6 | | |
| | Tapping Screw | 1.2~2.6 | 2~3 | 2~3 | 1.2~2.6 | 2~3 | 2~3 | 2.3~3 | 2.5~3.5 | 3~4 | 4~5 | 2.5~3.5 | 3~4 | 4~5 | 2.5~3.5 | 3~4 | 4~5 | 2.5~3.5 | 3~4 | 4~5 | | |
| Bit Type (mm) | | | | | | | | | | | | | | | | | | | | | | |
| Mass (kg) | | 0.38 | | | 0.39 | | | 0.71 (7100series) / 0.67 (8100series) | | | | | | 0.81 | | | 0.71 (7200series) / 0.67 (8200series) | | | 0.81 | | |
| Cord length (m) | | 3 (with connector) | | | | | | | | | | | | | | | | | | | | |
| Output signals | | Start, Torque up, Reverse | | | | | | | | | | | | | | | | | | | | |
| Grounding bit feature | | Equipped as standard | | | | | | | | | | | | | | | | | | | | |

DLR5640-WN

■ 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.

- Best suited for assembly lines of vehicle equipment and harness installations that require reliable screw fastening.
- Detection of the signals from electric screwdrivers enables highly reliable screw fastening management.
- Function of controller and counter is integrated in one unit.
- Count Return Function : In the event of refastening, a reverse signal outputted from the electric screwdriver reverses the count by one.
- Count Correction Function : If, because of a fastening error such as elevated screw or double fastening, a torque reached signal comes before the fastening time set on the timer built in the counter elapses, no count is recognized.
- 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 fastening counting. These kinds of counting can be used together.
- Link Connection Function : You can build up a simple sequential screw fastening system by connecting the DLR5640 screw fastening counters in series without using any external controller such as a programmable controller.
- Driver Lock Function prevents unexpected start of screwdrivers.
- Desktop and wall-hanger installations are available.
- Input voltage range from AC100V to 240V is acceptable in any part of the world.



Specifications

| Model | DLR5640-WN |
|------------------------------------|--|
| 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 second |
| Work detection function | Yes (1 terminal) / No (with self adjustable timer) |
| External count input | 2 terminals (PARTS A / PARTS B) |
| Work installation timer setting | 0 to 3 seconds |
| OK output timer setting | 0 to 3 seconds |
| 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 / PART B |
| External outputs on terminal block | OK / NG / LINK-OUT |
| Parameter memory | Parameters stored in internal nonvolatile memory |
| Screwdriver control | SPEED / LINEAR START |
| Power supply | AC100 ~ 240V 50/60Hz |
| Screwdriver power supply | DC33V / 1.5A |
| Dimensions (mm) | 101 (W) X 57 (H) X 140 (D) |
| Mass (kg) | 0.8 |
| Accessories | Power cord with U.S.A plug (1.5m) Suspension bail (2pcs.) |

Screw Counter



▲Example of use together with a sensor available in the market



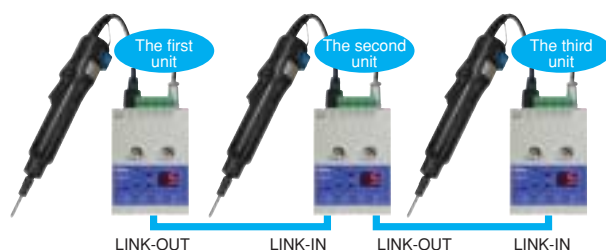
▲The example of installation

DLR5640-WN

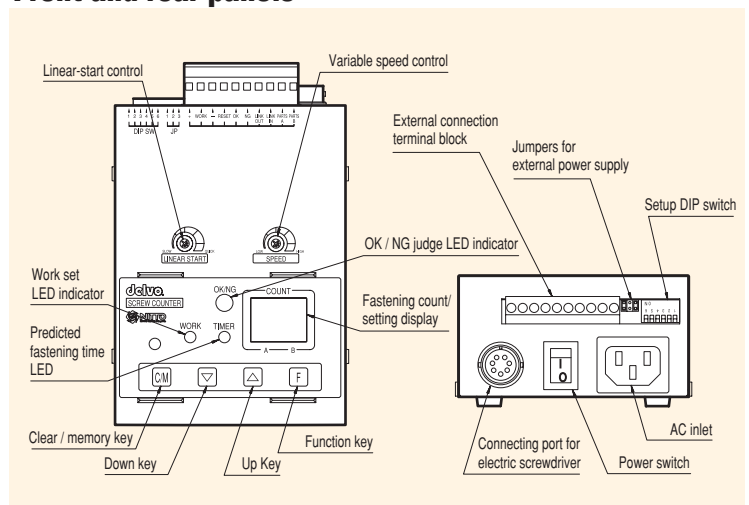
LINK function (Common to DLR5040A & DLR5640)

When counters are connected by way of LINK connection, the screwdrivers excluding the one to be operated become standby state and cannot be operated. Whole screw fastening is completed when the screw fastening of the third screwdriver finished.

N.B: Up to 10 counters can be connected.



Front and rear panels



Screwdrivers designed for DLR5640-WN

■ Screw Fastening Counter



DLR5640-WN



DLV7410A / 7410HA / 7420A-SPC



DLV7321 / 7331-SPC

Specifications

| Model | DLV7410A-SPC | DLV7410HA-SPC | DLV7420A-SPC | DLV7321-SPC | DLV7331-SPC |
|---------------------------------|---------------------------|---------------|--------------|-------------|-------------|
| Starting method | Lever start switch | | | | |
| Torque Adjustment | Stepless | | | | |
| Torque (N·m) | 0.02 ~ 0.20 | | 0.15 ~ 0.40 | 0.10 ~ 0.50 | 0.30 ~ 1.20 |
| Free speed (min ⁻¹) | 500 ~ 750 | 700 ~ 1000 | 450 ~ 600 | 300 ~ 1000 | 200 ~ 700 |
| Power Consumption (W) | 10 | | | 26 | |
| Screw Size (mm) | Machine Screw | M1.0 ~ 2.3 | M1.6 ~ 2.6 | M1.0 ~ 3.0 | M2.0 ~ 3.5 |
| | Tapping Screw | M1.0 ~ 2.0 | M1.4 ~ 2.3 | M1.2 ~ 2.6 | M2.0 ~ 3.0 |
| Bit type (mm) | | | | | |
| Electrostatic countermeasure | Complied with EN100015-1 | | | | |
| Mass (kg) | 0.23 | | | 0.35 | |
| Cord length (m) | 1.5 (with connector) | | | | |
| Output signals | Start, Torque up, Reverse | | | | |
| Grounding bit feature | Equipped as standard | | | | |

Combinations with electric screwdrivers

| Screwdriver model | Connection | Remarks |
|--|--|--|
| DLV7410A / 7410HA / 7420A-SPC | The cord comes with screwdriver | Screwdriver for the screw fastening counter only |
| DLV7321 / 7331-SPC | Direct connection to power source | |
| DLV7410A / 7410HA / 7420A / 7419 / 7419HA / 7429-BMN | Optional conversion cord (TD02925 DLW9072) | General-purpose screwdriver *1 |
| DLV7321 / 7331-BMN *2 | Direct connection to power source | |
| DLV7313 / 7323 / 7333 / 7321 / 7331 / 7325 / 7335-CMN *2 | Optional conversion cord (TD02826) | |

*1: The Count Return Function is not available.

*2: When used with DLV732□ series, the torque adjust ring of screwdriver should be set more than torque scale 3.

Optional cord



TD02925 DLW9072



TD02826 Conversion cord from 5-pin to 6-pin.

Accessories

Tool Balancer RWseries



Easy to adjust tension by using handle.

| Model | TW-1R | RW-3 | RW-5 |
|---------------|-----------|-----------|-----------|
| Capacity (kg) | 0.2 ~ 1.5 | 1.0 ~ 3.0 | 2.5 ~ 5.0 |
| Stroke (m) | 1.5 | 2 | |
| Mass (kg) | 0.3 | 0.7 | 0.9 |

Vacuum Pump DLP2500series



Reduces manual screw handling, thus improving operational efficiency. To connect the pump, just attach the tube to the nozzle.

| Model | DLP2530 | DLP2570 |
|------------------------------|--------------------|-----------------|
| Voltage | 100VAC, 50/60 Hz | 230VAC, 50/60Hz |
| Power Consumption (W) | 30(50Hz), 26(60Hz) | |
| Achievable Vacuum (-KPa) | -33.3 | |
| Flow Rate (at Outlet) (ℓ/mm) | 24 | |
| Screw Size (mm) | 4 or less | |
| Mass (kg) | 3.8 | |

Pistol Grip DLW2300/2300ESD

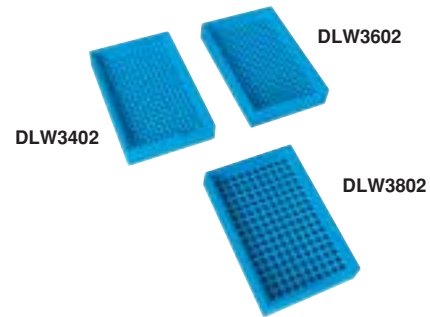
(for 7100, 7200, 8100, 8200, 7500, 7600, 8500 and 8600 Series Electric Screwdrivers)



Easy-to-attach grip suitable for horizontal operation.

Shaker Box made of anti-electrostatic resin

(for 2,3 and 4mm Screws)



The screws will fall into the heads-up position for easier vacuum or magnetic pickup.

The anti-electrostatic resin greatly reduces static build-up and dust attached to the shaker box.

| Model | DLW3402 | DLW3602 | DLW3802 |
|-----------------|---------|---------|---------|
| Part No. | TD04110 | TD04111 | TD04112 |
| Hole Pitch (mm) | 6 | 6 | 8 |
| Hole Depth (mm) | 13.5 | 13.5 | 12.5 |
| 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 ring to minimize tampering or accidental turning once torque is set.

| Part No. | Model | Applicable Screwdriver |
|----------|---------|---------------------------------------|
| TD00331 | DLW5200 | 7100, 7200, 8100 and 8200 series |
| TD00332 | DLW5300 | 7301, 7000, 8000 series (for 4mm bit) |
| TD01883 | DLW5400 | 7300 series (for 6.35mm bit) |
| TD00333 | DLW5500 | 7303 series (for 4mm & 6.35mm bit) |
| TD00334 | DLW5600 | 7500, 8500 series |
| TD02875 | DLW5700 | 7410 |

Flanged Coupling DLW9011

(for 7100, 7200, 8100 and 8200 Series Electric Screwdrivers)



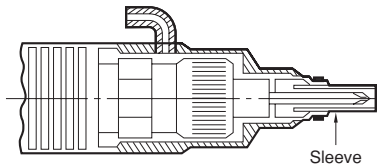
Provides a flange which enables the operator to apply axial pressure through the heel of the hand.

Sleeves and Vacuum Pickups

■ For DLV7400A/7800/7300/7000/8000 series

Vacuum Pickup

DLP6500 (for DLV7000 and 8000 Series Electric Screwdrivers)

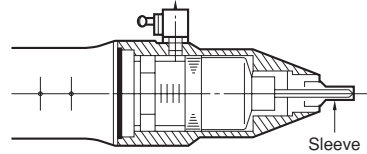


DLP5100 (for DLV7800 Electric Screwdrivers)

DLP5300 (for DLV7400A Electric Screwdrivers)

DLP7100 (for DLV7313 Electric Screwdriver)

DLP7200 (for DLV7323/7333 Electric Screwdrivers)

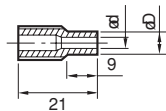


Standard set

| Vacuum Pickup (Part No.) | DLP5100 (TD00342) | DLP5300 (TD04342) | DLP6500 (TD00343) | DLP7100 (TD00345) | DLP7200 (TD00346) |
|--------------------------|----------------------------------|----------------------------------|--|--|--|
| Accessories | DLS2124 × 1pc. DLS2127 × 1pc. | DLS2120 × 1pc. DLS2124 × 1pc. | DLS2124 × 1pc. DLS2127 × 1pc. DLS2130 × 1pc. | DLS2122 × 1pc. DLS2124 × 1pc. DLS2127 × 1pc. | DLS2123 × 1pc. DLS2124 × 1pc. DLS2127 × 1pc. |

Sleeve DLS2000 series (Plastic)

(for DLP5100/5300/6500/7100/7200 Vacuum Pickups and DLV7325/7335 Electric Screwdrivers)



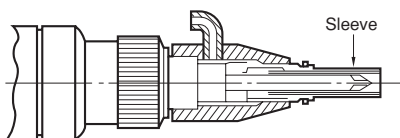
Unit: mm

| Sleeve | | | | Bit | |
|----------|---------|-----|-----|-----------------|----------------------------------|
| Part No. | Model | φ | φ | Part No. | Phillips Head ⊕ (No. x d x L) |
| TD00348 | DLS2120 | 2 | 3.5 | No.0 x 1.8 x 44 | |
| TD00349 | DLS2121 | 2.2 | | | |
| TD00350 | DLS2122 | 2.5 | | | |
| TD00351 | DLS2123 | 2.7 | | | |
| TD00352 | DLS2124 | 3.1 | | | |
| TD00353 | DLS2125 | 3.3 | 4.5 | No.0 x 2.5 x 44 | |
| TD00354 | DLS2126 | 3.5 | | | |
| TD00355 | DLS2127 | 3.7 | | | |
| TD00356 | DLS2128 | 4 | | | |
| TD00357 | DLS2129 | 4.2 | | | |
| TD00358 | DLS2130 | 4.5 | 5.5 | No.1 x 3 x 44 | |
| TD00359 | DLS2131 | 4.7 | | | |
| TD00360 | DLS2132 | 5.1 | | | |
| TD00361 | DLS2133 | 5.3 | | | |
| TD00362 | DLS2134 | 5.6 | | | |
| TD00363 | DLS2135 | 6.1 | 6.5 | No.2 x 4 x 44 | |
| | | | | | |
| | | | 7 | | |

■ For DLV7100/7200/8100/8200-□J□ series

Vacuum Pickup

DLP7000 (for DLV7100/7200/8100/8200 Series Electric Screwdrivers)

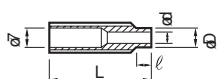


Standard set

| Vacuum Pickup (Part No.) | DLP7000 (TD00344) |
|--------------------------|----------------------------------|
| Accessories | DLS3223 × 1pc. DLS3225 × 1pc. |

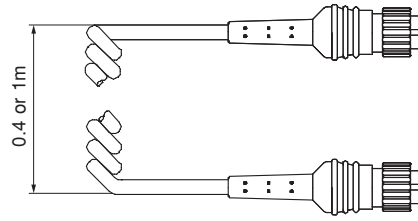
Sleeve DLS3000 series (Metal)

Unit: mm

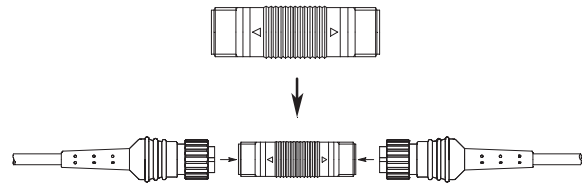


| Sleeve | | | | | | Bit | |
|----------|---------|-----|---|--------|--------|----------------|--|
| Part No. | Model | φ | φ | ℓ (mm) | L (mm) | Bit | |
| TD00364 | DLS3222 | 5.6 | 7 | 5 | 34 | No.1 x 5 x 70 | |
| TD05024 | DLS3223 | 6.1 | 9 | — | | No.2 x 6 x 70 | |
| TD00365 | DLS3224 | 6.4 | 9 | — | | No.1 x 4 x 100 | |
| TD00366 | DLS3225 | 7.1 | 9 | 18 | 65 | No.1 x 5 x 100 | |
| TD00367 | DLS3226 | 4.6 | 7 | | | No.2 x 5 x 100 | |
| TD00368 | DLS3227 | 5.1 | 7 | | | No.2 x 6 x 100 | |
| TD00369 | DLS3228 | 5.6 | 7 | | | | |
| TD00370 | DLS3229 | 6.1 | 9 | | | | |
| TD00371 | DLS3230 | 6.4 | 9 | — | | | |
| TD00372 | DLS3231 | 7.1 | 9 | | | | |

Optional Cord



Curl Cord



Cord Connector

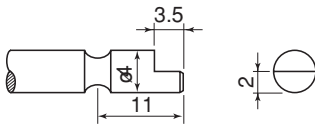
Please inquire of the distributor for the price and minimum quantity on each optional cord.

| Part No. | Optional Cord | Applied Models | Length(m) |
|----------|---------------------------|----------------|-----------|
| TD02826 | 5P to 6P Exchange Cord *1 | DLV7300 | 0.1 |
| TD02416 | Extension Cord For 5P | | 2 |
| TD02486 | Extension Cord For 6P | | 2 |
| TD01882 | Curl Cord | DLV7500/8500 | 0.4 |
| TD02820 | Curl Cord | | 1 |
| TD02438 | Cord Connector DLW9100 | | |

*1 : "5P to 6P Exchange Cord" can connect "5-pole Screwdriver" to "6-pole Controller".

NK BIT

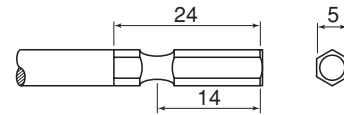
■ For DLV7400/7800/7300/
7000/8000/3300series



OD 4mm Shank

| Model | Size | | | Part No. | Dimensions | |
|-----------------------|-----------|-----|---------|----------|------------|--|
| | No. | d | L | | | |
| Cross Point NK4D | 0 | 2 | 44 | TD20009 | | |
| | | | 64 | TD20010 | | |
| | | 1.8 | 44 | TD20021 | | |
| | | | 64 | TD20022 | | |
| | | | 44 | TD20029 | | |
| | | | 64 | TD20030 | | |
| | 1 | 3 | 44 | TD20037 | | |
| | | | 64 | TD20038 | | |
| | | 4 | 44 | TD20039 | | |
| | | | 64 | TD20040 | | |
| | | | 44 | TD20047 | | |
| | | | 64 | TD20048 | | |
| 3 | 6 | 44 | TD20050 | | | |
| Plain Slot NK4DM | W × T × L | 44 | 2 | 0.3 | TD20051 | |
| | | | 2.5 | 0.3 | TD20052 | |
| | | | 3 | 0.4 | TD20053 | |
| | | | 4 | 0.5 | TD20054 | |
| | | | 5 | 0.65 | TD20055 | |
| Hexagon Head NK4DX | H × L | 44 | 1.5 | TD20056 | | |
| | | | 2 | TD20057 | | |
| | | | 2.5 | TD20058 | | |
| | | | 3 | TD20059 | | |
| | | | 4 | TD20060 | | |
| Hex Socket NK4DB | H × d × L | 44 | 4 | 6 | TD20064 | |
| | | | 4.5 | 7 | TD20065 | |
| | | | 5 | 7 | TD20066 | |
| | | | 5.5 | 8 | TD20067 | |

■ For DLV7100/7200/8100/8200/3100series



OD 5mm Hex. Shank

Unit: mm

| Model | Size | | | Part No. | Dimensions | | |
|-----------------------|---------------|-----|---------|----------|------------|---------|--|
| | No. | d | L | | | | |
| Cross Point NK31 | 1 | 4 | 70 | TD20193 | | | |
| | | | 100 | TD20194 | | | |
| | | | 70 | TD20196 | | | |
| | 2 | 5 | 100 | TD20197 | | | |
| | | | 70 | TD20200 | | | |
| | | | 100 | TD20201 | | | |
| 2 | 6 | 70 | TD20210 | | | | |
| | | 100 | TD20211 | | | | |
| | | 70 | TD20214 | | | | |
| 100 | TD20215 | | | | | | |
| Cross Point NK16 | 1 | 70 | TD20224 | | | | |
| | | | 100 | | TD20225 | | |
| | 2 | 70 | TD20232 | | | | |
| | | 100 | TD20233 | | | | |
| 150 | TD20235 | | | | | | |
| Hexagon Head NK31X | H × d × L | 70 | 2 | 4 | 70 | TD20254 | |
| | | | 2.5 | 3 | 70 | TD20256 | |
| | | | | | 70 | TD20258 | |
| | | | | | 70 | TD20260 | |
| | | | | | 70 | TD20262 | |
| Hex Socket NK31B | H × D × d × L | 5.5 | 9 | 4 | 70 | TD20272 | |
| | | | | | | 6 | |
| | | 7 | 11 | 5.5 | 70 | TD20276 | |
| | | | | | 100 | TD20277 | |
| | | 8 | 13 | 6 | 70 | TD20278 | |
| | | | | | 100 | TD20279 | |
| 10 | 16 | 8 | 70 | TD20282 | | | |
| | | | 100 | TD20283 | | | |



delvo

★ Specifications and designs are subject to change at any time without notice.



NITTO
NITTO KOHKI CO.,LTD.

Head Office

9-4, Nakaikegami 2-chome,
Ohta-ku, Tokyo 146-8555 Japan
Phone : 03(3755)1111 Fax : 03(3753)8791

- ▶ E-mail : overseas@nitto-kohki.co.jp
- ▶ URL : <http://www.nitto-kohki.co.jp>

