HITACHI
Inspire the Next

Cordless Driver Drills

18V 5.0Ah/3.0Ah DS 18DBSL 14.4V 5.0Ah/3.0Ah DS 14DBSL

Cordless Impact Driver Drills

18V 5.0Ah/3.0Ah DV 18DBSL

High Performance and Compact Design

NEW

Most Powerful* Torque
In its class

Max Torque Soft	40 Nm	DS 18DBSL DV 18DBSL	35 Nm	DS 14DBSL
Max Torque Hard	70 Nm	DS 18DBSL DV 18DBSL	60 Nm	DS 14DBSL

Hitachi Original Brushless Motor Technology Offers
Faster Application Speeds and More Compact Design

BRUSH LESS Brushless Motor

*Based on the Max Torque level of the DS18DBSL and DV18DBSL
As of September 2018. Among 14.4V/18V cordless drill/driver and cordless impact driver drills made by leading power tool manufacturers surveyed by Hitachi Koki.

Specifications

Model		DS18DBSL	DS14DBSL	DV18DBSL
Drill Chuck		1.5 - 13mm (1/16 – 1/2") Keyless		
Capacity	Brick	-		13mm (1/2")
	Mild Steel	13mm (1/2")		
	Soft Wood	50mm (2")	45mm (1-3/4")	50mm (2")
	Wood Screw	8 x 100mm (#20 x 4")	8 x 75mm (#20 x 3")	8 x 100mm (#20 x 4")
	Machine Screw	6mm (1/4")		
Battery	Voltage	18V	14.4V	18V
No Load Speed	High	0 - 1,800/min.	0 - 1,500/min.	0 - 1,800/min.
	Low	0 - 400/min.	0 - 350/min.	0 - 400/min.
Impact Rate	High	-		0 - 27,000/min.
	Low	-		0 - 6,000/min.
Max Torque	Hard	70Nm (620in-lbs.)	60Nm (530in-lbs.)	70Nm (620in-lbs.)
	Soft	40Nm (354in-lbs.)	35Nm (310in-lbs.)	40Nm (354in-lbs.)
Torque Setting		1.0 - 4.5Nm (9 - 40in-lbs.)		
Overall Length*1		175mm (6-7/8")		184mm (7-1/4")
Weight*2		1.6kg (3.5lbs.) (with BSL1830C)	1.6kg (3.5lbs.) (with BSL1430C)	1.7kg (3.7lbs.) (with BSL1830C)
Vibration Total Values (triax vector sum)*3	Drilling into Metal	Vibration Emission Value ah, ID < 2.5m/s² Uncertainty K = 1.5m/s²		-
	Impact Drilling into Concrete	-		Vibration Emission Value ah, ID = 7.5m/s² Uncertainty K = 1.5m/s²
Standard Accessories*4		2 Batteries (BSL1850, BSL1830C or BSL1830), Charger (UC18YFSL, UC18YSL3 or UC18YKSL)	2 Batteries (BSL1450, BSL1430C or BSL1430) Charger (UC18YFSL or UC18YKSL)	2 Batteries (BSL1850, BSL1830C or BSL1830), Charger (UC18YFSL, UC18YSL3 or UC18YKSL)
		Driver Bit, Battery Cover, Carrying Case		

*1 The overall length varies by region.
*2 According to EPTA-Procedure 01/2003.
*3 Vibration total values (triax vector sum) were measured according to EN60745-2-1.
*4 The included batteries and charger vary by country or area.

Distributed by:

Hitachi Koki Co., Ltd.

www.hitachi-koki.com

High Performance and Compact Design

BRUSH LESS Brushless Motor

The Large Dia. Brushless Motor and Optimized Gear Ratio Offers...

Most Powerful*1 Torque in its class

DS 18DBSL / DV 18DBSL

Max Torque Soft: **40** Nm | Max Torque Hard: **70** Nm

DS 14DBSL

Max Torque Soft: **35** Nm | Max Torque Hard: **60** Nm

Significantly Increased Application Speeds

DS 18DBSL / DV 18DBSL

Approx. **1.5X** Faster than the previous models DS18DBEL/DV18DBEL

DS 14DBSL

Approx. **1.3X** Faster than the previous model DS14DBEL

and

Compact Design with a Shorter Overall Length

DS 18DBSL / DS 14DBSL: **175** mm*2

DV 18DBSL: **184** mm*2

DS 18/14DBEL/DV 18DBEL 200 mm

DS 18DBSL 175 mm*2 | DV 18DBSL 184 mm*2

DS 18DBSL/DS 14DBSL: 27 mm | DV 18DBSL: 18 mm Shorter

Hitachi Original Brushless Motor Technology

BRUSH LESS Brushless Motor

- No wearing parts (carbon brushes, commutator, field coil)
- Hitachi original compact controller

Long Lifetime, Maintenance-free

Significantly extended product life cycle
Free from trouble including armature burnout, layer short or commutator wear even in severe work environments.

No carbon brush replacement required

Runtime per Charge (approx.)*3

Number of screws driven in wood
(Low Mode + Drill Mode)
φ4 x 40mm wood screws into American pine (with φ3mm pilot holes)

DS 18DBSL / DV 18DBSL 5.0Ah: Approx. **138** screws

φ4 x 75mm wood screws into American pine (with φ3.5mm pilot holes)

DS 14DBSL 5.0Ah: Approx. **167** screws

Number of holes drilled in brick
(High Mode + Impact Mode) Water filled in thickness, with φ10 masonry drill bit

DV 18DBSL 5.0Ah: Approx. **194** holes

Improved Handling

Double-molded, large clutch dial is clearly readable even when it's worn out. It's also easy to grip for better handling.

Higher Work Efficiency

Feedback speed control

reduces torque (rpm) fluctuation in a low speed range and ensures stable operation. This makes follow-up tightening and drill positioning easier.

(Continuous work within a low speed range may cause the temperature of the unit to rise, activating a temperature protection circuit and automatically stopping operation.)

*1 Except for the Max Torque Hard of the DS18DBSL and DV18DBSL,
As of September 2018. Among 14.4V/18V cordless driver drills and cordless impact driver drills made by leading power tool manufacturers (surveyed by Hitachi Koki).

*2 The overall length varies by region.

*3 The values are for reference purposes. They vary according to the work material and conditions.