



Next-Generation Model with
Enhanced Quality & Durability

Error Detecting Function Integrated
Driver for Automation

BLFA Series

Time & Pulse Error Detection

PGFA Series

Torque, Time, and Pulse Error Detection



New Models for Robots Featuring Advanced Performance is Now Available. BLFA and PGFA Series Will be Launched.



BLFA (L)、PGFA (R)

These updated models of “BLF” and “PGF” series will be launched as a robotic screwdriver featuring advanced performance capabilities while keeping output torque and torque accuracy from previous models. The operation box also has been redesigned and more solid in operations. BLOP-AY01 features colored touch display that shows necessary parameters and status of screwdriving. It also supports various screwdriving patterns such as normal screwdriving, pre-screwdriving, 2-way automatic speed control, and so on. Moreover, it is capable of judging pass/fail of each screwdriving to prevent defective parts to move onto next production. The popular FQ and FR suction attachments are compatible and support screw fastening performance more than ever

BLFA/PGFA Key Features

Steady Torque Accuracy

Brushless motors provide stabilized repeatable torque accuracy

Pass/Fail Detection

Checking insufficient torque each screwdriving* or screw floating. Fastening torque* and time can be output for a traceability use.

*PGFA+PG-01FA ONLY



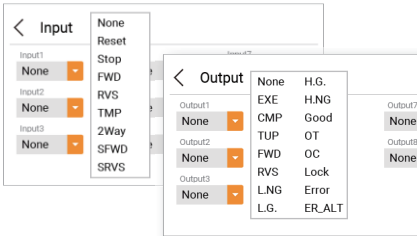
Suction Attachment

Picking up screws by minus pressure and capable of screw-fastening deep hole or near the wall.



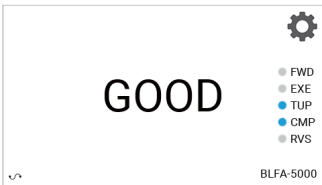
Multi Assignment

Multi assignment channel system provides max 8 of screwdriving patterns.



Pass/Fail Determination

Teaching pulse and time to determine pass/fail to prevent defects from being shipped.



Action Mode

Various screwdriving actions such as forward, reverse, pre-tightening, tightening at designated rotation, 2 stage automatic speed control



Vivid Color Display

The vivid touch-screen color display allows you to quickly check status and judgment results.



Data Output

Serial communication enables not only data output, but also changing channels



AY01 Specs

BLOP-AY01



Model	BLOP-AY01
Screwdrivers	BLFA Series PGFA Series*1
No. of Channels	8 Inputs, 8 Outputs
I/O	NPN PNP Switchable
Action Mode	Fwd, Rev, RPM & Speed Control, Rev after screw seated
Direct Teaching	RPM, Time
Power Input	AC100-240V 50/60Hz
Dimension	140×76×100mm
Weight	753g
Serial Communication	RS-232C

*1 Since work time pass/fail is determined by PG-01, BLOP-AY01 cannot be used



BLFA-2000

Model		BLFA-2000
Torque Range (N · m)		0.03–0.35
RPM		200–950
Slow RPM ^{*1}		100–950
Screw Size ^{*2}	Machine	1.0–2.3
	Tapping	1.0–2.0
Bit Drive		H4
Suction Attachment		FQ
Controller		BLC-45/BLC-70



BLFA-5000

Model		BLFA-5000
Torque Range (N · m)		0.3–1.0
RPM		200–950
Slow RPM ^{*1}		100–950
Screw Size ^{*2}	Machine	2.0–3.0
	Tapping	2.0–2.6
Bit Drive		H5 & 5HEX compatible
Suction Attachment		FQ/FR
Controller		BLC-70



BLFA-7000 Series

Model		BLFA-7000	BLFA-7000X	BLFA-7025X
Torque Range (N · m)		0.7–2.0	0.7–2.0	1.2–2.5
RPM		200–700	200–700	150–550
Slow RPM ^{*1}		150–700	150–700	100–550
Screw Size ^{*2}	Machine	3.0–4.0	3.0–4.0	3.0–4.0
	Tapping	3.0–4.0	3.0–4.0	3.0–4.0
Bit Drive		H5	1/4HEX	1/4HEX
Suction Attachment		FQ	FR	FR
Controller		BLC-80	BLC-80	BLC-80

^{*1} It cannot be used to screwdrive but picking up a screw only

^{*2} Screw size is reference only

The product's appearance, specifications, and performance might be changed without



PGFA-3000

Model		PGFA-3000
Torque Range (N · m)		0.2–0.55
RPM		200–900
Slow RPM*1		100–900
Screw Size*2	Machine	1.7–2.3
	Tapping	2.0–2.3
Bit Drive		H4
Suction Attachment		FQ
Controller		BLC-45/BLC-70



PGFA-5000

Model		PGFA-5000
Torque Range (N · m)		0.4–1.2
RPM		200–950
Slow RPM*1		100–950
Screw Size*2	Machine	2.3–3.0
	Tapping	2.0–2.3
Bit Drive		H4
Suction Attachment		FQ/FR
Controller		BLC-70



PGFA-7000

Model		PGFA-7000
Torque Range (N · m)		1.0–2.8
RPM		300–900
Slow RPM*1		200–900
Screw Size*2	Machine	2.6–5.0
	Tapping	2.6–4.0
Bit Drive	Standard	H5 & 5HEX compatible
	Special	1/4HEX
Suction Attachment		FQ/FR
Controller		BLC-80

*1 It cannot be used to screwdrive but picking up a screw only
*2 Screw size is reference only
The product’s appearance, specifications, and performance might be changed without

BLFA Series Configuration



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BLFA

PGFA Series Configuration



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PGFA

Peripherals Items

NEW

Screwfeeder



Dumper Unit



Torque Meter



Vacuum Pump



Attachment



Order Codes

Series	Order Code	Drive Size	Remarks
BLFA	BLFA-2000	H4	
	BLFA-5000	H5 + 5HEX	
	BLFA-7000	H5	
	BLFA-7000X	1/4HEX	
	BLFA-7025X	1/4HEX	
PGFA	PGFA-3000	H4	
	PGFA-5000	H4	
	PGFA-7000	H5+5HEX	
	PGFA-7000X	1/4HEX	
BLOP-AY	BLOP-AY01	—	AC Adapter and Adapter Cord. Plug type depends on an order code
BLC	BLC-45	—	Order code fluctuates depending on plug type
	BLC-70	—	Order code fluctuates depending on plug type
	BLC-80	—	Order code fluctuates depending on plug type
PG-01	PG-01FA	—	