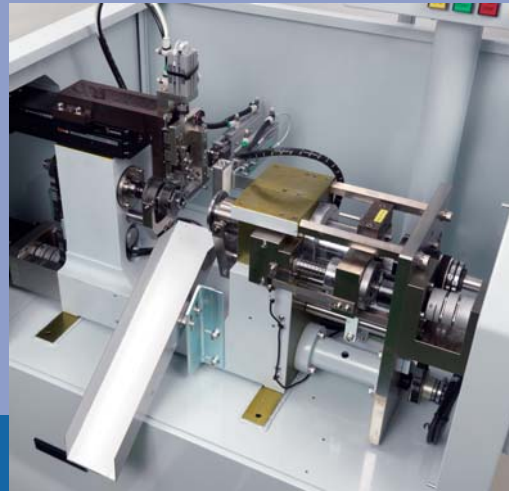


**NITOKU**

Precise Perfect Layer Bobbinless Coil Winding Machine

# **BLS-0135/BHS-0155**

*A newly developed controller for precise perfect layer winding!  
Improved automatic controls for consistent high quality production.*



BLS-0135  
The tensioner is optional.



BHS-0155

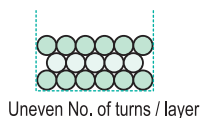
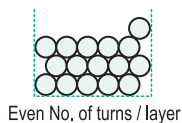


**NITOKU ENGINEERING CO., LTD.**

# Precise Perfect Layer Bobbinless Coil Winding Machine

## BLS-0135 / BHS-0155

### Features



- By utilizing a rigid traverse guide, perfect layer winding can be performed using jig without a slit groove wire guide.
- These machines also check if the jig flange position has been changed, and adjust it to keep consistent winding accuracy.
- The model BHS-0155 has special software for winding even or uneven number of turns per layer as required. So both type of coils can be produced with high accuracy.
- Reliable perfect layer winding is achieved by NITTOKU's unique intermittent wire feed mechanism with BHS-0155.
- Jig synchronizes with traverse to guide the first layer of winding with BHS-0155.
- For stable high speed winding, Pul-servo tensioner is recommended.

### Specifications

Model	BLS-0135	BHS-0155
S-Spindle	No. of spindles : Single spindle	
	Spindle rotating method : Double shaft drive	
	Spindle rotating speed* : Max.5,000rpm	
	Resolution : 0.1° / Stop accuracy : ±1°	
X-Traverse	Movable range : 70mm	
	Resolution : 0.001mm	
	Pitch resolution : 0.001mm	
Y-Horizontal	Movable range : Max. 53mm	
	Resolution : 0.001mm	
Available coil spec	Coil outer dia. : Max. $\phi$ 40mm (Optional : Max. $\phi$ 80mm)	
	Coil width : Max. 20mm (Optional : Max. 30mm)	
Wire size*	$\phi$ 0.04~0.4mm (Optional : Max. $\phi$ 0.8mm)	
Control axes	3	
Controller	Model : NSC35	Model : NSC50-02
	Programming by PC, panel display	
Power supply	AC200V±10% Single phase 50/60Hz	
Tensioner	Pul-servo tensioner Model PTA-S250 or Model PTA-S250-G is recommended.	
Power consumption	Approx. 4.3KvA	Approx. 5.0KvA
Air supply	Min. 49MPa	Min. 49MPa
Machine dimensions	1,100(W)x770(D)x1,500(H)mm	1,100(W)x820(D)x1,700(H)mm
Machine weight	Approx. 280kg	Approx. 310kg
Optional units	■ Tensioner ■ Alcohol Dispensing unit ■ Nipper cutter unit to get the required length at the wire ends ■ Unloading unit ■ Unloading robot Other units as per requirements	

\*Spindle rotating speed and applicable wire size changes by coil specification.

★ The machine specifications are subject to change without notice.



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NITTOKU's Fukushima Plant, Towa Plant, and Head quarters have obtained ISO9001:2000 quality management system certification, so customers can use our equipment with confidence.

Web site: [www.nittoku.co.jp/english](http://www.nittoku.co.jp/english)