Portable Servo Drilling Unit For Aerospace Industry

ELECON FEEDER

The Eleconfeeder is a compact, highperformance, high-powered portable NC drilling unit developed for the Aerospace Industry.



Features

1. Combined Ball Screw with Servo Motor Control Achieves Optimal Cutting Conditions for Complex Laminated Material

For laminations consisting of different materials and thicknesses, spindle speeds and feed rates change automatically per material, so that the optimal cutting conditions can be achieved. Improvement of drilling accuracy and cutting tool life are to be expected.

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2. Control Delamination and Burr Generation

Eleconfeeder can adjust the feed rate at drill bit breakthrough which minimizes an exit burr and delamination.

3. Capable of Drilling ϕ 16mm in Titanium Material.

Rated for a ϕ 16mm in titanium material, by engineering a high powered-efficient motor with a convenient compact size.

Effect of adjusting feed rate at breakthrough position

Without adjusting the feed rate



With adjusting the feed rate



 What is "Stroke Free Program"?

 It automatically detects load variation, and reads pre-registered spindle speed for each material. Then these functions enable Eleconfeeder to perform optimal drilling operations corresponding to concurrent detection of the drilling load, Even varying thicknesses of different materials which are laminated are freely drilled without pre-setting stroke lengths, It achieves drastic reduction in change over time.

 Not required to set stroke length!!

Component



Note. The figure in parentheses is a reference size . The size is different according to the spindle model. (Height×Width×Depth mm)

Specifications

Specs.	Spindle speed(no load)	(Collet	Chucking capacity	Ti *	. Drilling Al *	size CFRP	Stroke	Spindle motor	Feed motor	Thrust	Rapid approach	Cutting speed	Weight
Model	min ⁻¹		mm	(6-4Ti) mm	(ADC) mm	mm	mm	kW	kW	N (kgf)	speed mm/sec	mm/sec	kg
EF2-1342	428~4280	JT6 Collet holder ER-20	Max. ϕ 13	φ7	φ13	φ13	May 100	Max.0.9 DC	0.4	4300	Max.83	Max.16.7	12
EF2-2009	92~920	JT6 Collet holder ER-32	Max. ϕ 20	φ16	φ20	φ20	– Max.120	brushless motor	AC servo motor	(440)	IVIAX.03	wax.10.7	12

Notes 1.To select your model, refer to the work piece configuration, material, cutting properties, diameter of the hole and rotation speed. (cutting speed) 2.The drilling capacity shown above is for a depth equivalent to the drill diameter times two.

3. The power voltage of the main spindle inverter is a 3-phase 200V AC \pm 10%, 50/60Hz.

4.Ti * : Titanium , AI * : Aluminum , CFRP : Carbon Fiber Reinforced Plastic

5.Nose piece and cables are not contained in the weight.

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