SUGINO

SUPER! TECHNOLOGY

Portable Drilling Unit For Aerospace Industry

PNEUCON FEEDER

A drilling unit specifically engineered for the Aerospace Industry, powered with a durable, high torque air motor. Designed for compact and lightweight, The drilling unit is equipped with years of SUGINO's drilling technology applied for easy utilization.



Features

- All Air Driven
 On board adjustments for the air feed and rotation
 enables laminated materials to be drilled efficiently.
- 2. High Precision Spindle Construction Consistent drilling results are delivered with the use of high precision bearings.
- 3. Control Delaminating and Burr Generation. A two-step speed control can provide low feed drill mode during the exit of the drill to minimize the occurrence of burrs at break through and material delamination.



Case of drilling to CFRP

Without Pre-exit Low Feed



With Pre-exit Low Feed





Note. 1. The figures in parentheses are size of "CF2P-1030C" and "CF2P-1022C" . 2. The figures are reference size . The size is different according to the spindle model and length of drill.

Specifications

Specs.	Spindle speed (no load)	Chuck type (Collet Chuck)	Chucking capacity	Max. Drilling size			Operating	Air consumption		Stroke	Air motor	Thruet	Weight
				Ti*	Al*	CFRP*	air pressure	No load	Max. load	JUDRE	output		mongine
Model	min ¹		mm	mm	mm	mm	MPa	m ³ /min(ANR)	m ³ /min(ANR)	mm	kW	N (kgf)	kg
CF2P-1030C	3,000~4,200	Collet		_	φ8	φ8		0.6	0.6	Max.50	0.5	590 (60)	3.5
CF2P-1022C	2,200~3,080	Spindle ER-16	Max.φ10	_	¢ 10	¢ 10	+0.1						
CF2P-1316	1,600~2,240	Collet holder ER-20	Max. Ø 13	-	¢11.5	¢11.5	0.6 0	0.5	0.5	Max.50 Option Max.70	0.4		4
CF2P-1305	550~770	Collet holder ER-25	Мах. ф 16	φ6.5	¢ 13	¢ 13							
CF3P-1316	1,600~2,240	Collet holder ER-20	Max. Ø 13	φ8	φ13	¢ 13		0.25	0.6	Max.80	0.4	880 (90)	6
CF3P-1305	550~770	Collet holder	Мах. <i>ф</i> 16	Ø 8	φ13	¢13	+0.1 0.6 0						
CF3-1302	150~210	ER-25	wax.ψ10	¢ 13	ø 16	¢ 16		0.4	0.4		0.2		

Note1. Maximum capacity drill size will depending on input operating air pressure. (Operating air pressure: 0.6MPa)
2. To achieve the maximum power, it is necessary for the spindle to progress forward 10mm or more.
3. Nose piece and mist tank are option. Nose piece and mist tank are not contained in the weight.
4. The drilling capacity shown above is for a depth equivalent to the drill diameter times two.

5. To select your model, refer to the work piece configuration, material, cutting properties, diameter of the hole and rotation speed. (cutting speed)

6. The no load rotational speed is a range as shown above by the property of air motor.

The spindle speed decreases by the situation of the drilling load.

7. Ti * : Titanium (Ti-6AI-4V), AI * : Aluminum , CFRP* : Carbon Fiber Reinforced Plastic

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SUGINO MACHINE LIMITED