

The Best Seller of Drilling Unit SELFEEDER® ELECTRIC

The Electric series, designed with latest technology for high-speed and high-precision operation.

These feature maximum durability, wide variety with enhanced rigidity and reinforced functions without sacrificing compactness.

① Enhanced Rigidity

The guide bar held firmly in the box-shaped frame minimizes the eccentric forwarding of the unit. Thus, rigidity is enhanced. Precise drilling is possible due to min. eccentricity of the ram when the spindle is moving forward.

② Reinforced Function

A double waterproofing measure (slinger and rotary seal) is provided in the spindle section to protect the bearings inside for standard JT spindle. The ram is equipped as standard with a hold back mechanism to prevent the ram from dropping when the air supply is cut off. (Option for ES6-ES7)

Easy maintenance and max. safety are also assured.

SUGINO

ES
SERIES

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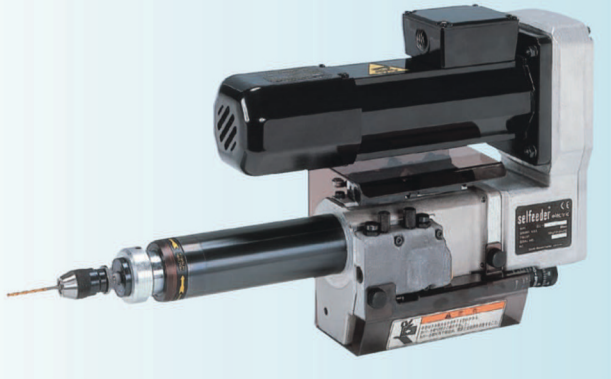
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ES2



Smallest and lightest SELFEEER
Ideal for drilling small-diameter holes



Note Picture shows standard specification
Refer to page 18 for the valveless type

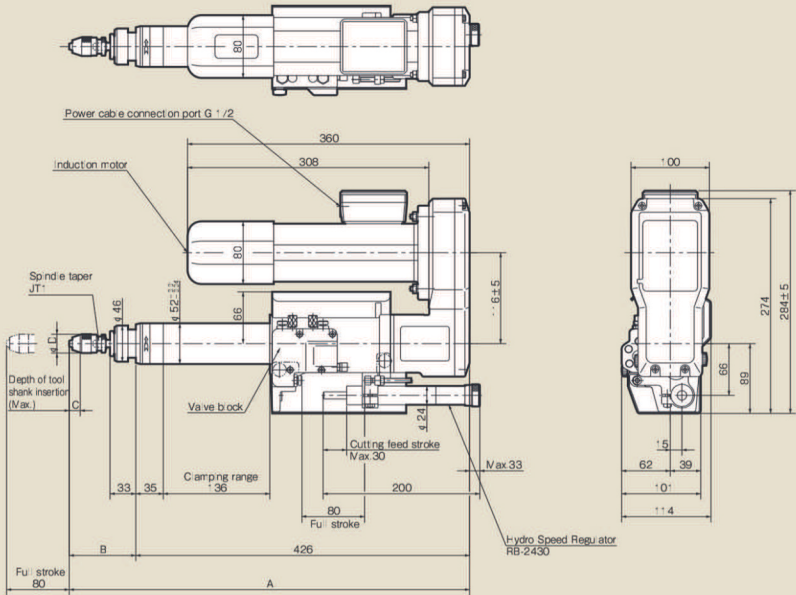
Capacity

Operating air pressure : 0.6MPa

Specs.	Spindle speed (no-load)		Chuck capacity	Max. drill size						Stroke		Motor		Thrust	Air consumption	Wgt*
	50Hz	60Hz		Spindle			2 Spindles			Max.	Cutting feed stroke	Output	No. of pole			
				AL*	FC*	ST*	AL*	FC*	ST*							
Models	min ⁻¹	min ⁻¹	mm	mm			mm			mm	mm	kW	F	N	L/stroke	kg
ES2-3100	10,000	12,000	3 keyless drill chuck	2.5	1	1	-	-	-	80	0~30	0.2	2	590	2	14
ES2-3085	8,500	10,000		3	1	1	-	-	-							
ES2-3060	6,000	7,200		3.5	1.5	1.5	-	-	-							
ES2-6045	4,500	5,400	6.5	4	2	2	3	1.5	1.5							
ES2-6030	3,000	3,600		5	3	2.5	4	2.5	2							
ES2-6020	2,000	2,400		6	4.5	4	5	3	3							
ES2-6014	1,400	1,700		7.5	6	5	5.5	4	4							

- Notes
- Mode selection should be done from the above chart, based on workpiece specifications, material hardness, diameter of hole and cutting speed.
 - The drilling capacity shown above is for a depth equivalent to the drill diameter times two.
 - RB-2430 is installed as a standard type Hydro Speed Regulator. Specify an optional Hydro Speed Regulator as necessary.
(Optional Hydro Speed Regulator types: RB-2460, R-2462A, R-2462A, and R-2462A)
 - The maximum weight of the attachment for downward drilling is 2.5kg.
 - AL*: Aluminum, FC*: Cast iron, ST*: Carbon steel, Wgt*: Weight
 - When ordering, please specify the voltage and frequency of the motor.
 - Please use the Collet Chuck Spindle Noses when the hardness of the carbide drill and tool shank is higher than that of a general high speed steel.

Dimensions(mm)



Note Dimensions show standard specification

Dimensions(mm)

Mode	A	B	C	D
ES2-3100				
ES2-3085	51	65	14	24
ES2-3060				
ES2-6045				
ES2-6030	53	87	30	32
ES2-6020				
ES2-6014				



Narrow-ported twin port head