

Pneumatically controlled small, lightweight drill unit

SELFEEER PNEUMATIC

SFB

1. A compact, light-weight, economical drilling unit that features a small body diameter, high torque with a durable air motor built-in.
2. These units can be installed close to one another in any direction.
3. Drilling and feed motions are pneumatically operated for safe use in an environment where no electricity is available.



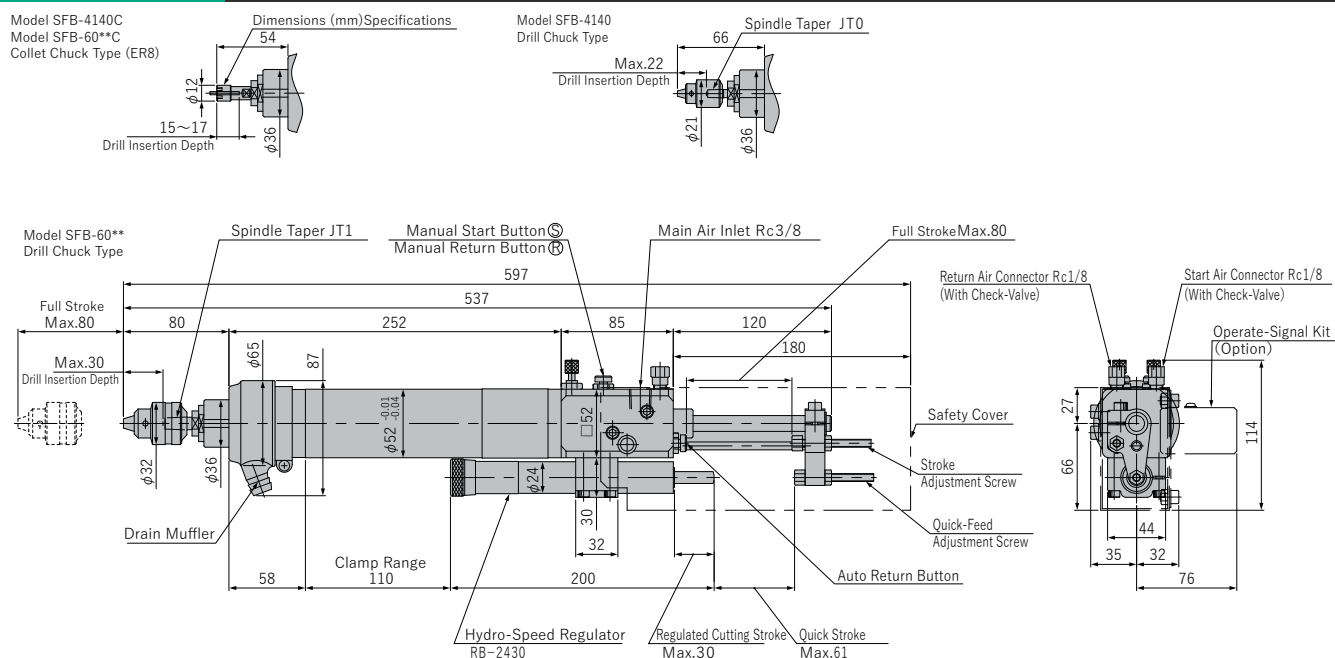
Specifications

Specs.	Spindle speed (no load)	Drill chuck capacity	Max. drill size												Stroke		Thrust	Operating air pressure	Air consumption		Air inlet connectors		Weight
			1 spindle			2 spindles			3 spindles			4 spindles							No load	Max.load	Main air	Pilot air	
			Aluminum (ADC12)	Cast Iron (FC200)	Steel (S45C)	Aluminum (ADC12)	Cast Iron (FC200)	Steel (S45C)	Aluminum (ADC12)	Cast Iron (FC200)	Steel (S45C)	Aluminum (ADC12)	Cast Iron (FC200)	Steel (S45C)									
Model	min ⁻¹	mm	mm			mm			mm			mm			mm	mm	N	MPa	ml/min(ANR)	ml/min(ANR)	-	-	kg
SFB-4140	14,000	4	4	3	2	-	-	-	-	-	-	-	-	-	Max.80	0~30 (Option: 0~60)	440	0.5 ^{+0.1} ₀	0.25	0.35	Rc 3/8 Hose I.D. ø7mm or more	Rc 1/8 Hose I.D. ø2.5mm or more	4.5
SFB-6080	8,000	6.5	5	4	3	3	2.4	1.8	-	-	-	-	-										
SFB-6028	3,000	6.5	6	5	4	4	3	2	-	-	-	-	-										
SFB-6016	1,600	6.5	6.5	5.5	5	4	3	2.3	-	-	-	-	-										
SFB-6005	550	6.5	8	7.5	7	5	4.2	3.5	-	-	-	-	-										

Note:

1. Maximum capacity drill size will vary depending on input operating air pressure. [Operating air pressure: 0.5MPa]
2. In most cases of small hole drilling (φ 1mm or less) except plastic; spindle speeds of 7,000min⁻¹ or less are generally recommended.
3. The RB-2430 is installed as a standard type Hydro-Speed Regulator. Specify an optional Hydro-Speed Regulator as necessary.
[Optional Hydro Speed Regulator models are: RB-2412, R-2460, R-2442A, and R-2462A]
*When installing a product other than RB-2430 or RB-2412, some parts will be changed.
4. Model selection should be done from the above chart, based on workpiece specifications, material hardness, diameter of hole and cutting speed.
5. To achieve maximum power, it is necessary for the spindle to progress forward 7mm or more.
6. When the hardness of the cemented carbide drill and tool shank is higher than that of a high speed steels, please contact our local distributor or subsidiary for detailed specifications.

Dimensions (mm)



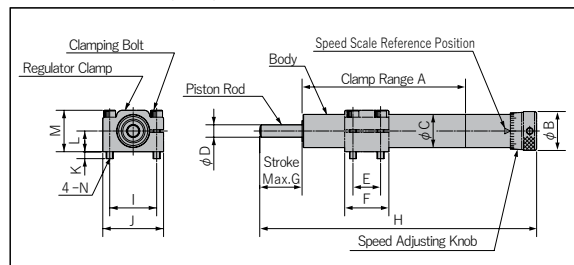
Hydro-Speed Regulator

This is a hydraulic feed speed control unit that can freely adjust the feed rate of an air cylinder to any desired speed from low to high.

When the load on the piston rod is removed, the piston rod automatically returns by the reaction force of the spring built inside.



Dimensions (mm)



More Details



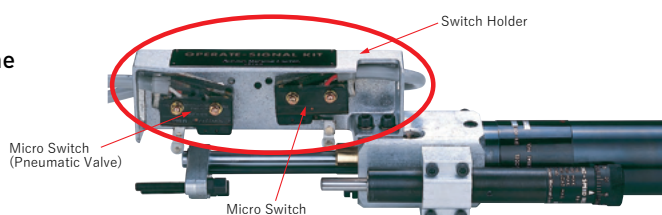
Dimension Table (mm)

Model Number	Max Stroke	Load Range	Speed Adjustment Range by Thrust	Allowable Impact Energy	Weight (Body Only)	Dimensions (mm)													
	mm	N	mm/sec	J	kg	A	B	C	D	E	F	G	H	I	J	K	L	M	N
RB-2412	12	98 ~ 490	F= 98N 0.2~20 F= 290N 0.3~30 F= 490N 0.4~35	1.47	0.35	93						12	160						
RB-2430	30	200~1,500	F= 200N 0.1~ 5 F= 490N 0.2~25 F= 980N 0.3~40 F= 1,500N 0.4~50	2.45	0.41	115	28	24	9	20	32	30	200	34	44	5	15	30	M5
RB-2460	60				0.58	196						60	311						

Note 1. Hydro-speed regulators other than the above specifications are also available. Please contact our nearest sales office.
2. Regulator clamp is optional.

Operate-Signal Kit

This kit is designed to accurately detect the operation of the Selffeeder "Pneumatic" and control its synchronized operation with other device (index table and automatic clamping device) by sending out pneumatic or electrical signals.



Specifications

Model Number	Type of Signal	Type of Detection	Applicable Selffeeder	Micro Switch / Pneumatic Valve
OSK – 80B – FM	Electrical Signal	Detection of max. drilling depth position	SFB	Micro Switch
OSK – 80B – EM	Electrical Signal	Detection of return position		Micro Switch
OSK – 80B – EP	Air Signal	Open signal during return		Pneumatic Valve
OSK – 80B – RM	Electrical Signal			Micro Switch
OSK – 80B – RP	Air Signal			Pneumatic Valve
OSK – 80B – WM	Electrical Signal	Detection of max. drilling depth position and return position		Micro Switch

Flex Stand

The jig is used to fix the round-body Selffeeder "Pneumatic" at any angle.

Level Clamp

The jig is used to mount the round-body Selffeeder "Pneumatic" parallel to the machine base.

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