

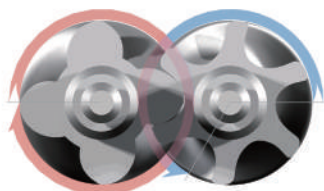
SEM II SEM (V) II SERIES

FIXED SPEED
VARIABLE SPEED

ΓΕΩΗΨ ΠΨ



OUTSTANDING PERFORMANCE COMES FROM A STRONG HEART



Positive/negative rotor drop of traditional four-to-six tooth profile

LOW DROP, HIGH EFFICIENCY

- As shown in the left figure, drop of tooth profile is 25% less than four-to-six gear ratio. Low drop means effective compression efficiency and thermal efficiency can be greatly improved.

EQUIVALENT RIGIDITY

- Primary rotor has high rotating speed and larger diameter and secondary rotor has lower rotating speed and smaller diameter. Diameter ratio and rotating speed ratio of rotor is in direct proportion. Such design makes rigidity of two rotors exactly equal.

SMALL LEAKAGE AREA

- Larger rotor brings smaller leakage area which enhanced compression efficiency further.

PRECISION EQUIPMENT MAKES HIGH ACCURATE ROTOR

- Fabricated with HOLROYD rotor processing machine from UK, refined with KAPP & KLINGELNBERG precision rotor grinding machine, the tooth profile precision is up to 0.005mm and surface roughness can reach Ra 0.1-0.2 μm .
- Inspected with German ZELSS, LEITZ three-coordinate measuring machine.
- Even under continuous running condition, rotor maintains the best clearance value and is stable and efficient.



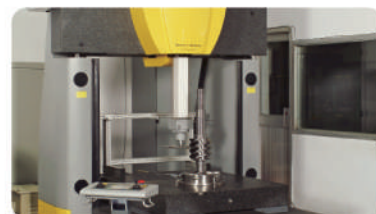
British HOLROYD rotor processing machine



German KAPP precision rotor grinding machine



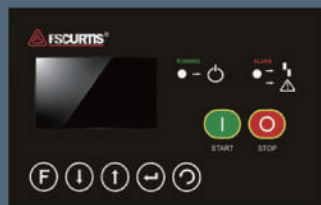
Japan special CNC processing machine for enclosure



German ZEISS three-coordinate measuring machine



AIMS CONTROLLER



LCD display control

- We provide an attentive controller interface which allows you to control the compressor easily and quickly.
- The clear and user friendly window gives prompts for operation and maintenance. The controller can be programmed in many languages and the software is upgradeable.
- Simple text signals, on a real time basis, tell you what to do and when.
- Select data and controls can be duplicated in customers control system via RS485 port (available in select models).
- Suitable for multi-compressor control.

ADVANCED, THOUGHTFUL OVERALL DESIGN

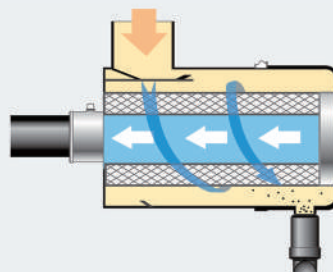
AIR INLET VALVE



- Large volume, low pressure drop design to ensure highest air intake efficiency. Air intake is automatically adjusted according to the customer demand to ensure best efficiency and energy savings.

EFFICIENT AIR FILTRATION SYSTEM

- Large dust particles drop into the rubber groove located at the front of the cartridge. This prevents larger particles from reaching the actual filter and hence increase its life.
- High surface area ensure lesser inlet pressure drop and higher filtration efficiency.



MULTIPLE PARALLEL OIL FILTER



- Multiple oil filters with parallel-connection are able to filter impurities and degradation effectively, and ensure maximum service life of air end.

HIGH EFFICIENCY OIL SEPARATOR

- Extra large oil tank optimizes internal pressure ratios and stabilizes the air pressure effectively
- High efficiency air-oil separation is achieved through a 3 stage process that includes cyclonic separation, gravitation separation and finally, separation at the cartridge. Oil content of the compressed air is controlled at an ideal level, not only to provide you clean air, but also to reduce oil consumption.



UNIT BUFFER DEVICE



- Effectively reduces the vibrations of the running unit and eliminates resonances. Also results in improved service life of other components and lower noise.

EFFICIENT AND ENVIRONMENTALLY FRIENDLY SYSTEM DESIGN

- The system and structure layout follow the principle of high reliability, high efficiency and low noise.
- Adopt joint material that used Zinc to prevent corrosion and seal the end face to prevent leakage.
- Non-asbestos gasket with high temperature and pressure resistance to protect operators.
- From the design concept to the application of various components, fu sheng SA series has a more efficient performance.

HI-QUALITY MOTOR



High efficiency FS Curtis branded motor with IP55 protection, F class insulation with temperature rise limited to class B. Customization possible, as an option, in accordance with specific requirements, if any.

AIR COOLED MODELS – LARGE AREA EFFICIENT COOLING



- Oversized oil cooler and air cooler ensure low Δt of 6 – 8°C. The cooling fan is designed to ensure low noise operation, while ensuring highest heat removal.
- Oil temperature is maintained at lowest possible levels even during tropical summer conditions, thereby extending the oil and oil separator life by about 30%. This ensures reduced cost of operations and maintenance.

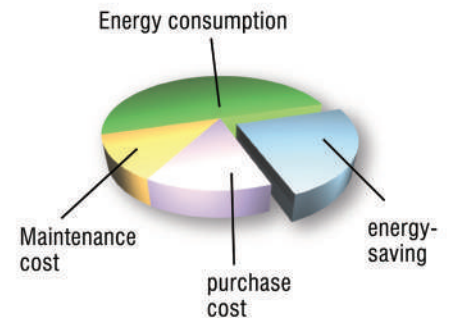
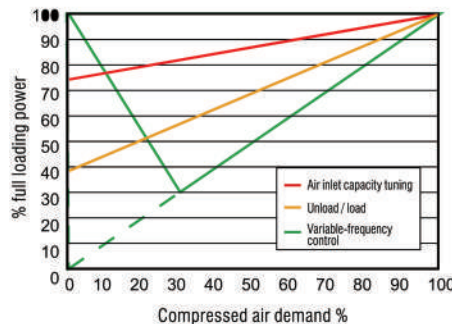


SEM II series screw compressor (Fixed Speed)

MODEL	MOTOR	CAPACITY FAD (CMM)				CAPACITY FAD (CMM)				DIMENSIONS (base mount)	WEIGHT (base mount)	
		5 f' Wc']b[K UHf' Wc']b[5 f' Wc']b[K UHf' Wc']b[
	kW / HP	7KG	8KG	10KG	12KG	7KG	8KG	10KG	12KG	(L x W x H mm)	KG	KG
SEM20II	15/20	2.50	2.30	2.00	1.70					1080 x 880 x 1298	480	
SEM25II	18/25	3.05	2.80	2.60	2.15						520	
SEM30II	22/30	4.00	3.70	3.20	2.66						600	
SEM40II	30/40	5.40	5.10	4.50	3.80						880	
SEM50II	37/50	6.60	6.20	5.50	4.80					1280 x 980 x 1450	920	
SEM60II	45/60	7.70	7.20	6.40	5.70						1080	
SEM75II	55/75	11.4	10.6	9.30	8.30	11.4	10.6	9.30	8.30	2250 x 1344 x 1694/ 2250 x 1544 x 1694	2250	2250
SEM100II	75/100	13.8	13.0	11.4	10.1	13.8	13.0	11.4	10.1		2380	2380
SEM125II	90/125	15.8	14.8	13.2	11.7	15.8	14.8	13.2	11.7	2700 x 1650 x 1800	2450	2450
SEM150II	110/150	20.0	18.8	16.7	14.6	20.0	18.8	16.7	14.6		3195	3145
SEM175II	132/175	25.5	24.0	21.0	18.5	25.5	24.0	21.0	18.5	3200 x 2000 x 2000	3780	3730
SEM215II	160/215	31.0	29.2	26.0	23.0	31.0	29.2	26.0	23.0		4470	4510
SEM270II	200/270	37.5	37.0	32.5	29.2	37.5	37.0	32.5	29.2	3520 x 2290 x 2030	4610	4650
SEM335II	250/335	47.0	44.5	39.0	34.8	49.0	45.5	40.6	36.0		6000	6000

ENERGY SAVING CONTROL

Variable frequency drive ensures that your compressor consumes only as much power, as is necessary for the actual compressed air demand of your system. The optimally selected frequency drive device ensure that the rotational speed of the compressor is reduced (or increased) to provide the exact capacity of compressed air needed by you, while operating at a set pressure. In addition, the variable frequency inverter also ensure a "soft-start" of the motor, thereby preventing current peaks on the electrical system during motor starting.



SEMV II series screw compressor (Variable Speed)

MODEL	MOTOR	CAPACITY FAD (CMM)				CAPACITY FAD (CMM)				DIMENSIONS (base mount)	DIMENSIONS (base mount)	WEIGHT (base mount)	
		Air cooling				Water cooling				Air cooling	Water cooling	Air cooling	Water cooling
	kW / HP	7KG	8KG	10KG	12KG	7KG	8KG	10KG	12KG	(L x W x H mm)	(L x W x H mm)	KG	KG
SEMV30II	22/30	1.60~4.00	1.48~3.70	1.28~3.20	1.12~2.80					1430 x 880 x 1298		630	
SEMV50II	37/50	2.56~6.40	2.36~5.90	2.10~5.25	1.84~4.60					1630 x 980 x 1450		970	
SEMV60II	45/60	2.92~7.30	2.72~6.80	2.36~5.90	2.06~5.15					1460 x 1280 x 1680		1180	
SEMV75II	55/75	4.04~10.1	3.84~9.60	3.28~8.20	2.88~7.20	4.04~10.1	3.84~9.60	3.28~8.20	2.88~7.20	2250 x 1344 x 1694	2250 x 1544 x 1694	2250	2250
SEMV100II	75/100	4.96~12.4	4.76~11.9	4.20~10.5	3.68~9.20	4.96~12.4	4.76~11.9	4.20~10.5	3.68~9.20			2380	2380
SEMV125II	90/125	6.00~15.0	5.60~14.0	4.84~12.1	4.28~10.7	6.00~15.0	5.60~14.0	4.84~12.1	4.28~10.7			2450	2450
SEMV150II	110/150	5.55~18.5	5.10~17.0	4.50~15.0	3.90~13.0	5.55~18.5	5.10~17.0	4.50~15.0	3.90~13.0	2600 x 1750 x 1850	2600 x 1750 x 1850	2660	2590
SEMV175II	132/175	6.75~22.5	6.30~21.0	5.40~18.0	4.80~16.0	6.75~22.5	6.45~21.5	5.70~19.0	5.10~17.0	2800 x 1800 x 1850	2800 x 1800 x 1850	3200	3130
SEMV215II	160/215	8.40~28.0	7.95~26.5	6.90~23.0	6.15~20.5	8.64~28.8	8.10~27.0	7.20~24.0	6.45~21.5	2900 x 1800 x 2150	2900 x 1800 x 2000	4150	4190
SEMV270II	200/270	10.50~35.0	9.75~32.5	8.70~29.0	7.80~26.0	10.80~36.0	10.20~34.0	9.00~30.0	8.10~27.0			4180	4220
SEMV335II	250/335	13.35~44.5	12.75~42.5	11.10~37.0	10.05~33.5	13.80~46.0	13.50~45.0	12.00~40.0	10.95~36.5	3870 x 2290 x 2030	3870 x 2290 x 2030	6500	6500



CONTINUED COMMITMENT

A company history that dates back more than 160 years is a company history that, to us, is just the beginning. FS-Curtis is committed to offering a world-class portfolio of products. Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be the most trusted and dependable name in compressed air serving even more markets through our ever-growing global presence.

You can count on **FS-Curtis** to approach the next 160 years by staying true to the values and strengths that are appreciated by our customers today.

A WORLD OF DIFFERENCE

The FS-Curtis headquarters in St. Louis, Missouri, U.S.A. is the anchor of a larger global network. FS-Curtis builds quality products — and a quality reputation — at locations around the world.

In addition to our manufacturing and packaging locations, a large global network of sales agents and distributors ensures that sales and service support is available around the world, day in and day out.

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