

SWAM SR SERIES Rotary Positive Blowers

Swam a group known for Technology, Innovation and Excellence is worlds 4th larger blower manufacturing Co. with blowers upto 80,000 m³/hr. capacity.

Swam, offers its advance technology next generation **SR-Series Blowers**; equipped with latest features, enabling it more reliable, energy efficient and lower maintenance.

Blowers are ruggedly built with appropriate rotor shaft design, aiming at low deflection & critical consideration. The rotors are supported on heavy duty antifriction oil lubricated bearings. The rotor profile of Axcel Series are computer generated enabling better uniform clearances and higher volumetric efficiency.

The blowers have very high accuracies & manufactured on CNC machines. The blowers are available for flows upto 80000 m³/hr. and pressure upto 0.6 kg/cm² in single stage. Swam SR Series Blowers are available in Twin-Lobe & Tri-Lobe designs.

SWAM - SR Series Salient Features

- Ruggedly built for working under tough conditions, high load transmission & higher operating speeds.
- Computer generated Axcel Series lobe-profile optimizes high volumetric efficiency.
- Helical heavy duty timing-gears, shrunk fit on rotor shafts make reliable and accurate fitment.
- Guaranteed **oil free conveyance**.
- Suitable for positive and negative conveying & for top, bottom or side discharge.
- Side suction or side discharge arrangement available on select models.
- Special sealed models for gas conveying and for vacuum application.
- Provided with inbuilt pulsation Dampeners.
- Rotating parts dynamically balanced to finer grades.
- Four number of bearings.
- Heavy Duty Shaft.
- Special Lip Seal Sealing System.

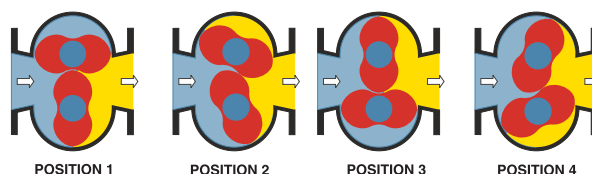
FOCUS ON QUALITY & RELIABILITY

Emphasis on quality and performance is a commitment of every individual at **SWAM** beginning at grass root level.

The quality control is practiced at all levels of the organization and all its aspects are thoroughly complied with the specified standard & specification, till the product gets delivered.

The quality assurance system encompasses self quality control by each worker, supervised by quality control engineers. Each blower undergoes thorough & stringent tests at different stages of manufacturing and are test run for several hours prior to despatch as per the relevant code, customers' specification and approved quality plan.

These functions are carried out by our team of dedicated, qualified and experienced engineers.

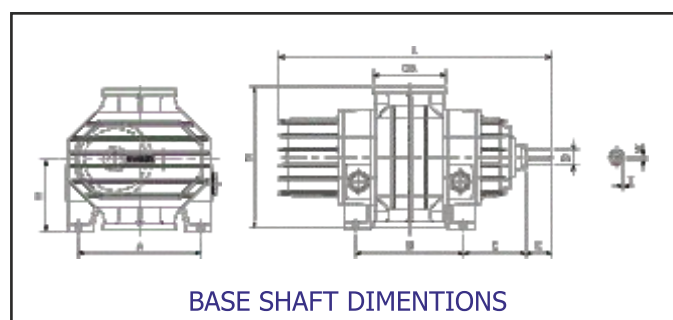


WORKING PRINCIPLE

The working principle of Twin-lobe type. The rotors, move opposite to each other, maintaining fine clearances, in perfect synchronization through a set of precision timing gears.

As the rotation proceeds, the trapped gas moves along until it reaches the discharge port raising its pressure against the system resistance. The precise clearances within the blower-makes possible the rise in pressure with least internal slip loss. The delivery is non-pulsating smooth and with lower sound emission.

DIMENSION DRAWING OF ROOTS AIR BLOWER / COMPRESSOR (A.C)



MODEL	OUTER DIMENSIONS						SHAFT EXTN.				FLANGE DETAILS				
	A	B	C	H	N	L	E	øD	KEY WAY W	T	PCD	NO. OF HOLES	HOLE SIZE	N.B.	OD
SR - 21	308	45	92	155	315	396	50	34	10	5	80	4	M12	50	120
SR - 31	308	85	101	155	315	462	50	34	10	5	139.7	4	M16	65	140
SR - 41	308	106	110	155	315	498	50	34	10	5	152.4	4	M16	80	200
SR - 51	308	165	117	165	330	571	50	34	10	5	190.5	8	M16	100	222
SR - 61	308	230	122	165	330	646	50	34	10	5	190.5	8	M16	100	222
SR - 71	416	230	144	215	430	718	70	42	12	5.15	216	8	M20	125	254
SR - 81	416	280	144	220	440	768	70	42	12	5.15	240	8	M20	150	285

PERFORMANCE TABLE FOR SR SERIES TWIN-LOBE BLOWERS

FLOW RATE - FAD M³/ Hr. at Suction Conditions : Pressure - 760 mm hg. Temperature - 20° C

PERFORMANCE DATA FOR HANDLING AIR AT POSITIVE PRESSURE

Pressure mmwg		1000		2000		3000		4000		5000		6000	
Model	Speed	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW
SR-21	2900	181	0.63	170	1.27	163	1.9	156	2.54	150	3.18	140	3.78
	2000	116	0.4	107	0.82	98	1.2	91	1.63	85	2.04	80	2.46
	1450	77	0.28	67	0.56	59	0.84	51	1.16	45	1.44	-	-
	1200	59	0.24	49	0.48	42	0.75	36	1.0	-	-	-	-
SR-31	2900	302	1.06	284	2.12	272	3.18	260	4.24	250	5.30	242	6.36
	2000	194	0.68	178	1.36	164	2.04	152	2.72	142	3.40	134	4.10
	1450	128	0.47	112	0.94	98	1.41	86	1.41	76	2.40	--	--
	1200	98	0.40	82	0.80	70	1.25	60	1.25	--	--	--	--
SR-41	2900	436	1.50	418	3.00	403	4.50	390	6.00	377	7.50	364	9.00
	2000	284	0.95	266	1.90	249	2.90	230	3.85	217	4.80	204	5.75
	1450	190	0.68	172	1.36	154	2.04	138	2.72	124	3.40	111	4.10
	1200	148	0.50	130	1.00	115	1.50	100	2.00	84	2.60	--	--
SR-51	2900	592	1.90	568	3.80	550	5.70	536	7.60	524	9.50	512	11.40
	2000	386	1.30	362	2.60	344	3.90	330	5.20	318	6.50	306	7.80
	1450	260	1.00	236	2.00	218	3.00	204	4.00	192	5.00	181	6.00
	1200	202	0.70	178	1.40	160	2.10	146	2.80	134	3.50	--	--
SR-61	2500	630	2.10	600	4.20	578	5.30	561	8.40	536	10.50	--	--
	2000	490	1.70	460	3.40	438	5.10	421	6.80	406	8.50	--	--
	1450	336	1.10	306	2.20	284	3.30	267	4.40	252	5.50	--	--
	1200	266	0.90	236	1.80	214	2.70	197	3.60	182	4.50	--	--
SR-71	2900	1462	4.60	1417	9.20	1382	13.80	1352	18.40	1325	23.00	1300	27.60
	2000	992	3.15	947	6.30	912	9.50	882	12.70	855	15.90	830	19.00
	1450	731	2.35	656	4.70	651	7.10	621	9.40	594	11.80	569	14.20
	1000	470	1.65	425	3.30	390	5.00	360	6.70	333	8.40	303	10.00
SR-81	2000	1281	4.05	1233	8.10	1195	12.20	1162	16.20	1132	20.30	1107	24.40
	1450	896	2.90	848	5.80	810	8.70	777	11.60	747	14.50	722	17.40
	1200	721	2.35	673	4.20	635	7.00	602	9.40	572	11.80	547	15.20
	1000	581	2.10	533	4.20	495	6.30	462	8.40	432	10.50	--	--

Manufacturing Plants:



PLANT - I



PLANT - II



PLANT - III



PLANT - IV

SWAM PNEUMATICS PVT. LTD.

(ISO-9001:2008 Quality Certified)

C-2, Sector-3, Noida-201301, Gautam Budh Nagar (INDIA)

Tel : +91-120-4696222, Fax : +91-120-2443283, 4696200

E-mail : sales@swamatics.com

Website : www.swamatics.com

Leader in : Air-Gas Conveying, Boosting & Vacuum Technology