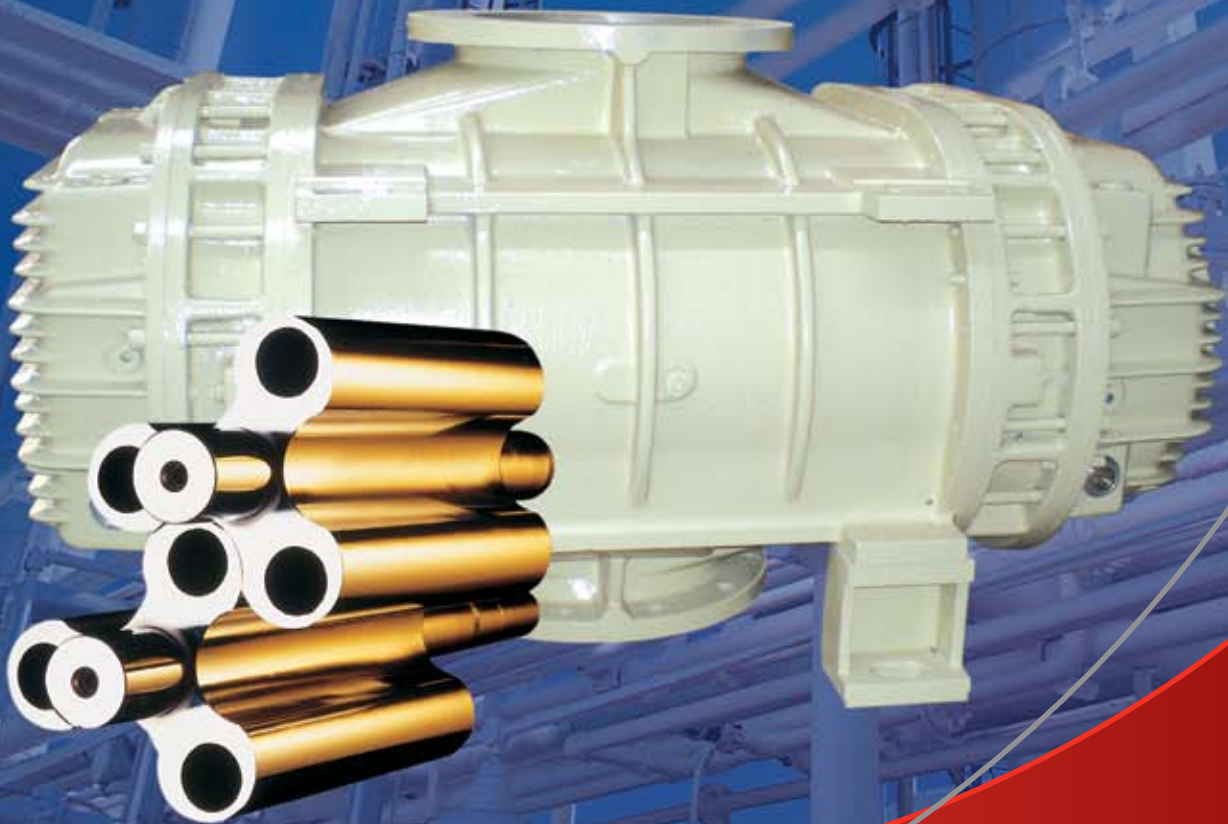


hibon[®]

Bareshaft Blowers

SN Three Lobe Series



Bareshaft Blowers SN Series

Ingersoll Rand offers a wide range of positive displacement, three-lobe blowers for use in compression and vacuum applications for air and other neutral gases. The SN Series can deliver pressures to 1,1 bar (16 psig) and vacuum up to 500 mbar (15 "Hg) with flow rates from 15 m³/h (10 cfm) to 13500 m³/h (7950 cfm)

Experience and know-how

With almost a century of experience in the manufacture and sale of rotary positive displacement blowers, Ingersoll Rand has a large range of three-lobe blowers specially designed to meet the demanding requirements of standard air or neutral gas applications: efficiency, competitiveness, and robustness.

This know-how ensures that the entire range of standard blowers benefits from the latest technological developments, allowing the user to obtain an optimum solution best suited to his needs.

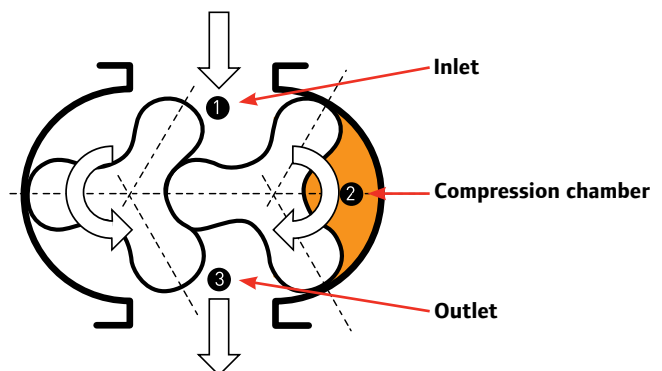
Application

Thousands of international installations of Ingersoll Rand blowers are proof of their reliability and strength, providing universal solutions in wide-ranging applications such as:

- Water treatment
- Pneumatic conveying
- Chemical, petrochemical and pharmaceutical
- Food processing
- Cement work
- Metallurgy
- Power
- Paper production, etc...

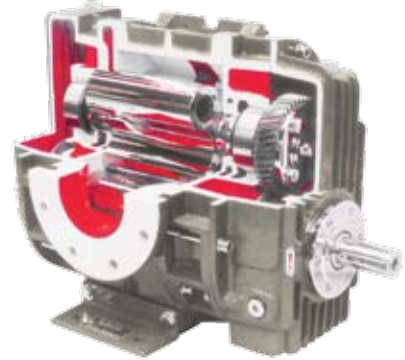
Benefits

- High mechanical and volumetric efficiency
- Reliability in operation
- Air-cooled, oil-free operation
- Fast and easy maintenance
- Dynamically balanced impellers
- Cast iron construction with a damper system to reduce noise and in-pipe pulsation
- Direct-drive or V-belt drive available throughout the operating range



Performance

Model	Max. Inlet Flow		Max. Differential Pressure mbar (Psig)		Max. Vacuum	
	m3/h	cfm	mbar	psig	mbar	in. Hg
SN 801	300	175	1000	15	500	15
SN 802	450	270	1000	15	500	15
SN 803	650	380	1100	16	500	15
SN 804	850	500	1000	15	500	15
SN 806	1250	735	1100	16	500	15
SN 809	2000	1175	900	13	500	15
SN 811	2300	1350	1000	15	500	15
SN 817	3150	1850	1000	15	500	15
SN 822	4300	2530	800	12	500	15
SN 825	3200	1880	1100	16	500	15
SN 842	5000	2940	930	13	500	15
SN 855	7000	4100	1100	16	500	15
SN 870	8000	4700	900	13	500	15
SN 890	9000	5300	900	13	500	15
SN 8110	11000	6500	600	9	500	15
SN 8170	13500	7950	850	13	500	15



Features

1. Bearings

- Lifespan calculation done with ISO281 standard for 50 000 hours L_{h10}
- Five bearings* for improved reliability
- Suitable for all types of drive units including very compact transmissions
- Heavy-duty roller bearing at shaft end

2. Sealing

- Piston rings gas transfer and labyrinth, oil slingers ensure oil-free operation

3. Gears

- SN blowers are fitted with helical** synchronised ground gears in accordance with ISO 6
- Located at drive end for more input torque capability

4. Oil lubrication at both ends

- Two large-capacity cast iron oil casings
- Fins on casings ensure proper oil cooling

5. Rotors

- Three lobe design
- Integral rotors shaft for models SN 803, SN 804, SN 806, SN 809, SN 811, SN817, SN 822 (index MA)

6. Body

- Cast iron with damper system to reduce noise and in-pipe pulsation
- Detachable feet*** allow mounting in vertical/horizontal mode

7. Conformity to EC safety standard

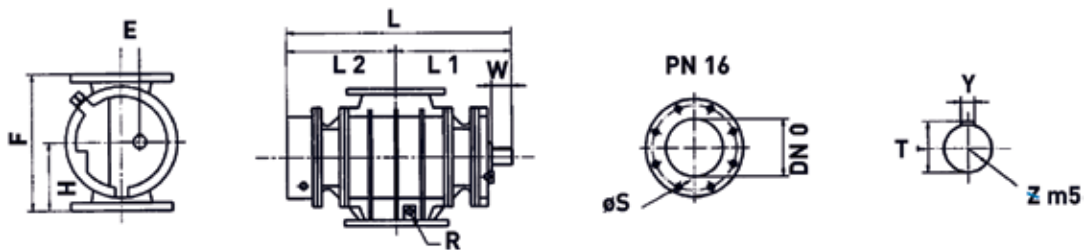
- * Except SN 801 and SN 802
- ** Blowers SN 801, SN 802, are fitted with spur gears located on driven end
- *** Except SN 8170



Materials

Part	AFNOR	ASTM	DIN	EUROPEAN
Impeller case	FGL 200	A 48 gr 30 B	GG 20	EN – GJL 200
Heat plate covers	FGL 200	A 48 gr 35 B	GG 25	EN – GJL 250
Impeller	FGL 400-15	A 536 - 60 - 40 - 18	GGG 40	EN – GJL - 400 - 15
Shafts SN 803 to SN 822		A 536 - 60 - 40 - 18		EN – GJL - 400 - 15
Shafts SN 870 to SN 8170	42 CD 4	A 322 gr 4142	17200	42 Cr Mo 4
Shafts for others models (MA)	XC 48	A 304 gr 1045 H		C 45 E
Gears	42 CD 4	A 322 gr 4142	17200	42 Cr Mo 4

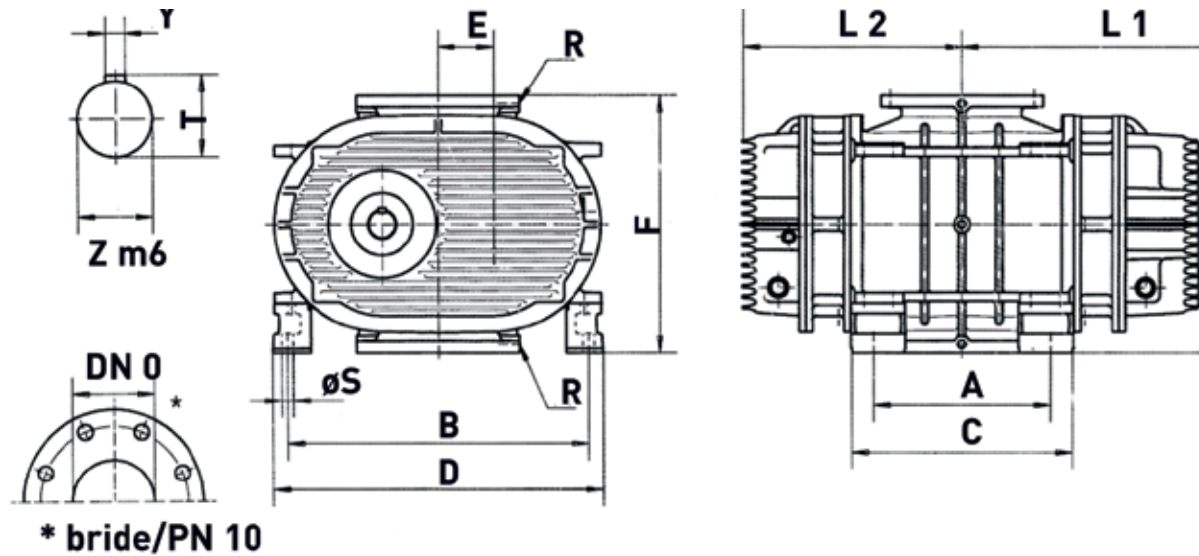
Dimensions



SN 801/802

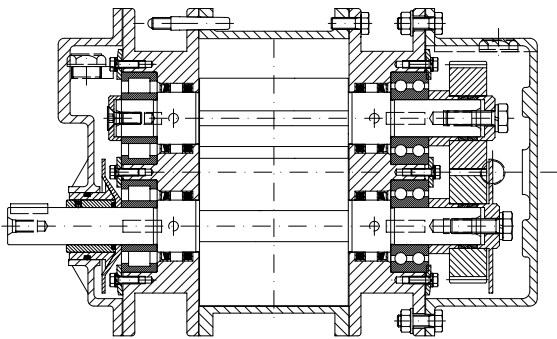
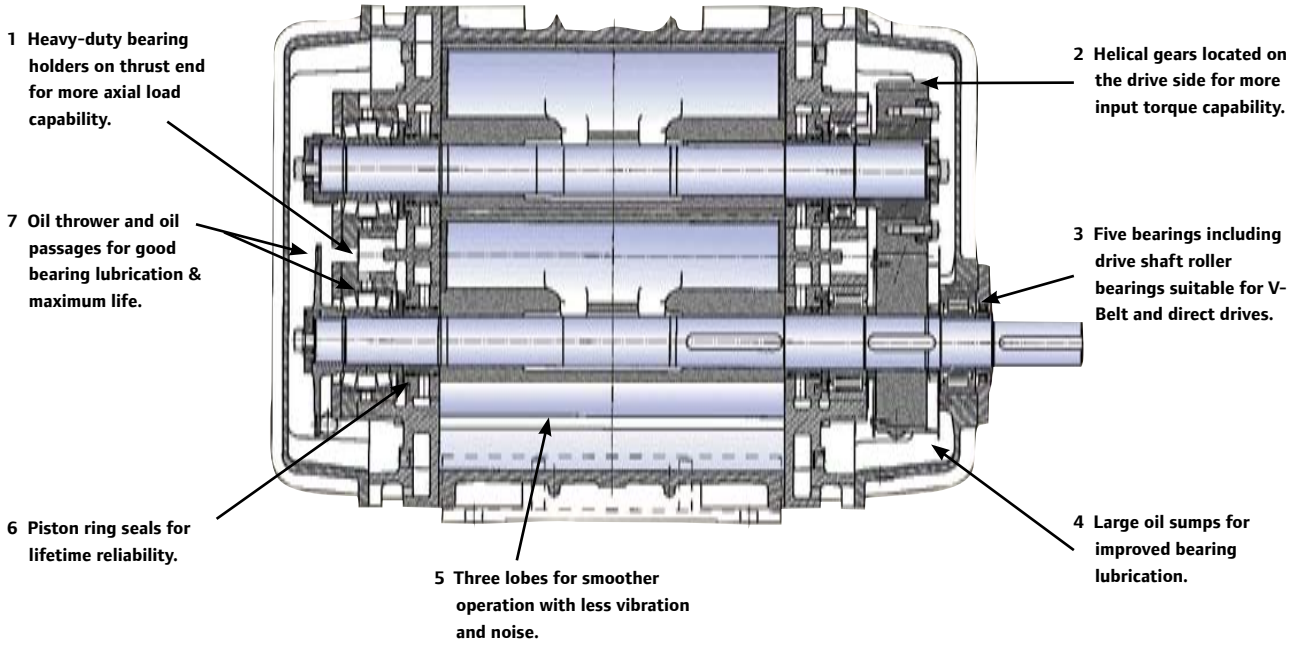
SN Model	Units	E	F	H	L	L1	L2	DN 0	R	S	T	W	Y	Z	Weight
801	mm	36,25	270	135	378	196	182	80	1/4"G	M16	28	28	8	25	34 kg
	in.	1 3/8	10 5/8	5 3/8	14 7/8	7 3/4	7 1/8	3 1/8	1/4"G	M16	1 1/8	1 1/8	1/3	1	75 lb.
802	mm	36,25	270	135	476	246	230	80	1/4"G	M16	28	28	8	25	45 kg
	in.	36 1/4	36 1/4	36 1/4	36 1/4	36 1/4	36 1/4	36 1/4	1/4"G	M16	1 1/8	1 1/8	1/3	1	99 lb.

Dimensions

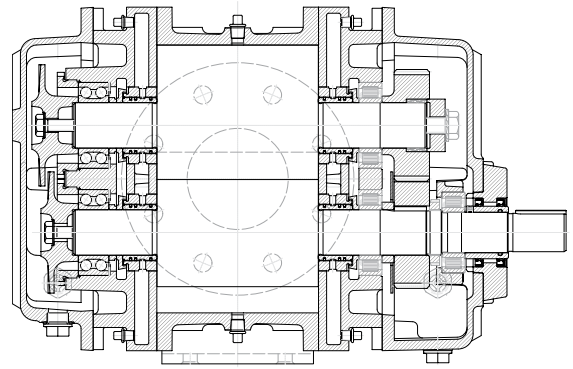


Type SN	Unit	A	B	C	D	E	F	H	L	L1	L2	DN 0	R	S	T	W	Y	Z	Weight
SN 803	mm	94	355	150	400	53	305	152,5	548	325	223	100	1/4"G	14	41	57,5	10	38	140 kg
	in.	3 5/8	14	6	15 3/4	2	12	6	21 1/2	12 7/8	8 7/8	4	1/4"G	5/8	1 5/8	2 1/4	3/8	1 1/2	309 lb.
SN 804	mm	154	355	210	400	53	305	152,5	608	355	253	100	1/4"G	14	41	57,5	10	38	150 kg
	in.	6	14	8 1/4	15 3/4	2	12	6	24	14	10	4	1/4"G	5/8	1 5/8	2 1/4	3/8	1 1/2	311 lb.
SN 806	mm	125	395	194	450	67,5	370	185	641	381	260	125	1/2"G	18	51,5	74,5	14	48	187 kg
	in.	5	15 5/8	7 5/8	17 5/8	2 5/8	14 5/8	7 1/4	25 1/4	15	10 1/4	5	1/2"G	5/8	2	3	5/8	2	412 lb.
SN 809	mm	205	395	274	450	67,5	370	185	721	421	300	150	1/2"G	18	51,5	74,5	14	48	209 kg
	in.	8	15 5/8	10 7/8	17 5/8	2 5/8	14 5/8	7 1/4	28 3/8	16 5/8	11 7/8	6	1/2"G	5/8	2	3	5/8	2	461 lb.
SN 811	mm	265	395	334	450	67,5	370	185	781	451	330	150	1/2"G	18	51,5	74,5	14	48	260 kg
	in.	10 3/8	15 5/8	13 1/8	17 5/8	2 5/8	14 5/8	7 1/8	30 3/4	17 3/4	13	6	1/2"G	5/8	2	3	5/8	2	573 lb.
SN 817	mm	240	550	312	600	86,5	450	225	862	511	351	200	1/2"G	22	64	100	18	60	434 kg
	in.	9 1/2	21 5/8	12 1/4	23 5/8	3 3/8	17 5/8	8 7/8	34	20 1/8	13 7/8	7 7/8	1/2"G	3/4	2 1/2	4	5/8	2 3/8	957 lb.
SN 822	mm	360	550	432	600	86,5	450	225	982	571	411	200	1/2"G	22	53,5	100	14	60	480 kg
	in.	14 1/8	21 5/8	17	23 5/8	3 3/8	17 5/8	8 7/8	38 5/8	22 1/2	16 1/8	7 7/8	1/2"G	3/4	2 1/8	4	5/8	2 3/8	1058 lb.
SN 825	mm	200	600	292	670	108,5	540	270	952	573	379	175	3/8"G	22	69	120	18	65	503 kg
	in.	7 7/8	23 5/8	11 1/2	26 3/8	4 1/4	21 1/4	10 5/8	37 1/2	22 5/8	15	7	3/8"G	3/4	2 5/8	4 5/8	5/8	2 5/8	1109 lb.
SN 842	mm	375	600	465	670	108,5	540	270	1127	600,5	466,5	250	3/8"G	20	69	120	18	65	620 kg
	in.	14 3/4	23 5/8	18 3/8	26 3/8	4 1/4	21 1/4	10 5/8	44 3/8	23 5/8	18 3/8	9 7/8	3/8"G	7/8	2 5/8	4 5/8	5/8	2 5/8	1367 lb.
SN 855	mm	305	730	409	800	135	620	310	1146	674,5	471,5	250	1/2"G	27	74,5	140	20	70	900 kg
	in.	12	28 3/4	16 1/8	31 1/2	5 3/8	24 3/8	12 1/4	45 1/8	26 5/8	18 5/8	9 7/8	1/2"G	1	3	5 1/2	7/8	2 3/4	1985 lb.
SN 870	mm	430	730	536	800	135	620	310	1271	737	534	250	1/2"G	27	74,5	140	20	70	1001 kg
	in.	17	28 3/4	21 1/8	31 1/2	5 3/8	24 3/8	12 1/4	50	29	21	9 7/8	1/2"G	1	3	5 1/2	7/8	2 3/4	2207 lb.
SN 890	mm	530	760	680	830	135	680	340	1421	812	609	445	1/2"G	25	74,5	140	20	70	1112 kg
	in.	20 5/8	30	26 7/8	32 5/8	5 3/8	26 7/8	13 3/8	56	32	24	17 1/2	1/2"G	1	3	5 1/2	7/8	2 3/4	2452 lb.
SN 8110	mm	680	760	830	830	135	680	340	1571	887	684	350	1/2"G	28	74,5	140	20	70	1226 kg
	in.	26 7/8	30	32 5/8	32 5/8	5 3/8	26 7/8	13 3/8	61 7/8	35	27	13 7/8	1/2"G	1 1/8	3	5 1/2	7/8	2 3/4	2703 lb.
SN 8170	mm	950	740	1080	840	170	910	380	1640	963	675	350	1/2"G	30	95	170	25	90	2500 kg
	in.	37 3/8	29 1/8	42 1/2	33	6 5/8	35 7/8	15	64 5/8	38	26 5/8	13 7/8	1/2"G	1 1/8	3 3/4	6 5/8	1	3 1/2	5513 lb.

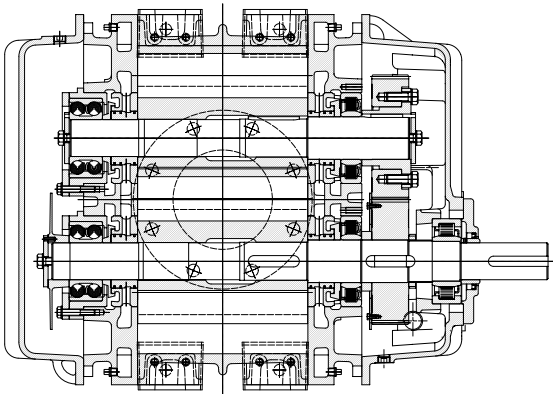
Cross section drawing



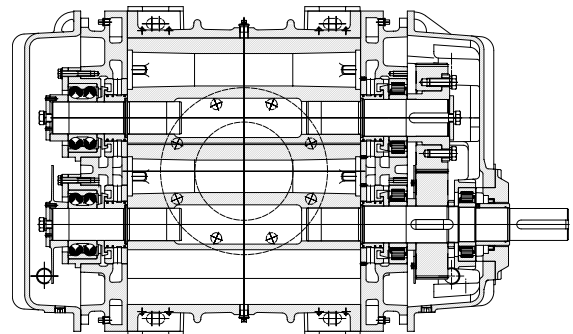
SN 801 / SN 802



SN 803 / SN822



SN 825 / SN 842



SN 855 / SN8170



All repairs and service are done in conformity with the highest industrial standards and completed by a team of experienced technicians and engineers. IR embraces its responsibilities to operate in a manner that protects the environment and human health and safety in order to support the company's long-term growth and reputation as a responsible corporate citizen.

STANDARD EXCHANGE

Guarantee your production capability

- Fast delivery: shipping of the exchange machine within one day
- Large range of machines ready to ship
- Performance certified as identical to your original machine
- 12-month warranty
- Price includes the return of your blower

ON-SITE TECHNICAL SUPPORT

Bring our expertise to you

- Service centers in France, England and Germany
- Installation, commissioning, service, and maintenance on-site
- Diagnostic and breakdown service
- Qualified technical service with the full support of our technical department

SERVICE CONTRACTS

Maximize uptime

- Keep costs under control
- Personal contract possibilities
- Scheduled maintenance
- Priority service in an outage
- Reduce downtime

MAINTENANCE & SERVICE

To your original specifications

- More than 100 years of technical and industrial experience
- Cleaning system keeping the component integrity
- Spare parts with supplier warranty (over 20 000 parts in stock)
- Available for standard service
- Guarantee on the quoted lead-time
- Similar test as a new machine
- Technical survey in link with our technical department
- Expertise and application recommendation available on demand



Ingersoll Rand Industrial Technologies provides products, services and solutions to enhance the efficiency and productivity of our commercial, industrial and process customers. Our innovative products include air compressors, air systems components, tools, pumps, material and fluid handling systems and microturbines.

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