

Process Blowers

NX S Series

**For N₂, Ar, CH₄, He, H₂, O₂...
gases**

With more than a century experience, Ingersoll Rand Air Solutions **hibon**® has successfully supplied to the market a world-class range of air blowers and vacuum equipment made to provide air/gas volumes at various both pressures and vacuum level.

Continuous research and development of the **hibon**® Products range has led to the introduction of our new Process bareshaft blowers : **NX S. Series**

Their new design includes the benefits of improved assembly, lifetime reliability, and competitive solution.

Range

NX 2S, NX 3S and NX 5S :	From 100 m ³ /h to 1 570 m ³ /h*
NX 8S and NX 12S :	From 400 m ³ /h to 2 822 m ³ /h*
NX 18S and NX 26S :	From 700 m ³ /h to 4 635 m ³ /h*
NX 43S and NX 54S :	From 1 900 m ³ /h to 7 820 m ³ /h*
NX 80S, NX 100S & NX 120S:	From 3 000 m ³ /h to 12 900 m ³ /h*

Differential pressure up to 1 bar g. — Vacuum up to 500 mbar

* Max flow rate can change with customer running conditions

Features

Gears: Helical gears located on the opposite drive side.

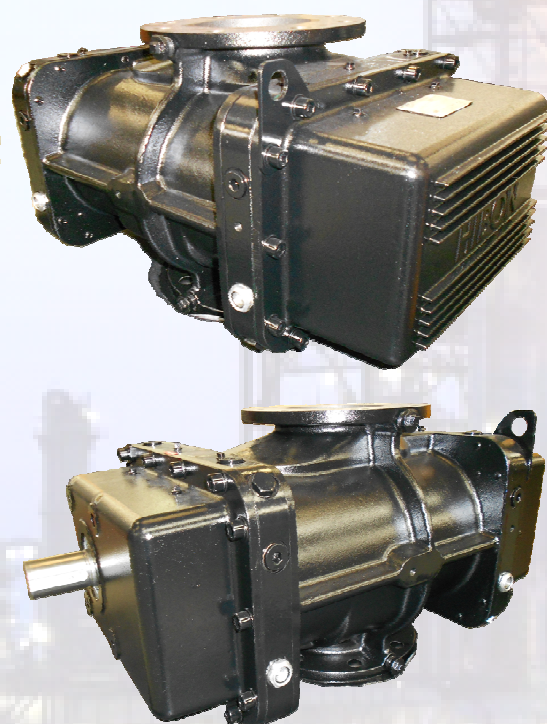
Bearings: Four sized bearings for lifetime reliability.

Oil reservoir: Large oil reservoir for improved bearing lubrication.

Oil splasher: Oil splasher and oil passages for good bearing lubrication and long life.

Seals: Four piston ring seals plus a shoulder by sealing for totally oil free operation.

Shaft seals: Single mechanical seal self lubricated by crankcase oil.



Benefits

- High mechanical and volumetric efficiency.
- Auto-adjustments of the lateral clearance to improve repeatability.
- Lifetime reliability.
- 100% oil free operation.
- Blowers without maintenance up to 5 years (except oil each year or every two years if you use HIBON LUBE).
- Lifting lugs.
- ATEX available on demand.
- Option: Mounting feet

Material of construction

- Cast iron and carbon steel.
- Other material on demand.



Main applications

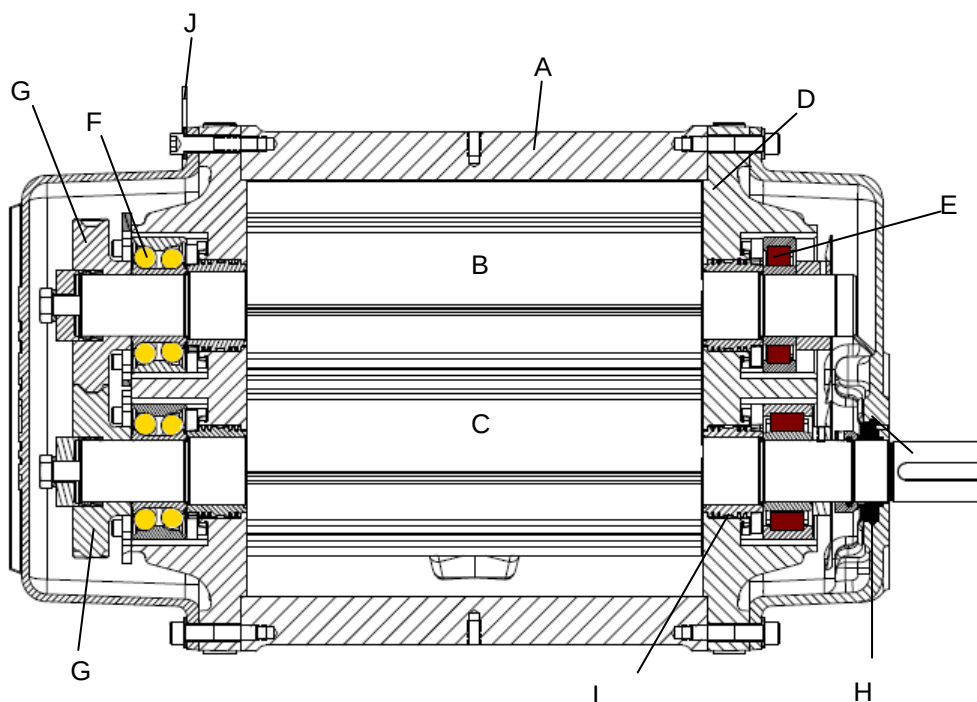
- Pneumatic conveying of polyethylene
- Biogas recovery
- Degassing
- Furnace cooling....

Main markets

- Process gas industry (N₂, Ar, CH₄, He, H₂, O₂...)
- Plastic industry
- Energy
- Chemical, petrochemical industries...

Part description

A	Housing
B	Driven Rotor
C	Drive Rotor
D	Head Plate
E	Roller bearings
F	Ball bearings
G	Gears
H	Single mechanical seal
I	Piston ring seals
J	Lifting lugs



Advantages of mechanical seals

- High level tightness
- Very short axial installation length (analog lip seals) combined with high pressure capability
- Springs protected from medium and leakage
- No damage of the shaft by dynamically loaded O-Ring
- Due to the stationary design insensitive to shaft misalignments
- Compact ready-to-install unit

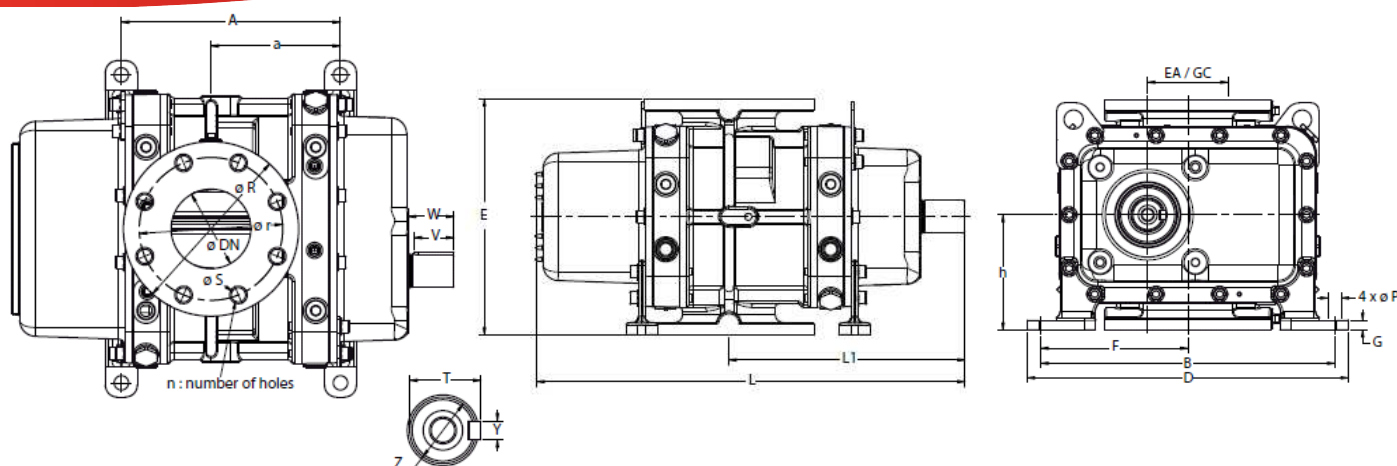


HIBON is a brand of Ingersoll Rand. Ingersoll Rand (NYSE:IR) advances the quality of life by creating and sustaining safe, comfortable and efficient environments. Our people and our family of brands work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; secure homes and commercial properties; and increase industrial productivity and efficiency. We are a \$14 billion global business committed to a world of sustainable progress and enduring results. For more information, visit <https://www.ertek.com/>

Process Blowers

NX S Series

Left and Right Hand blower dimensions



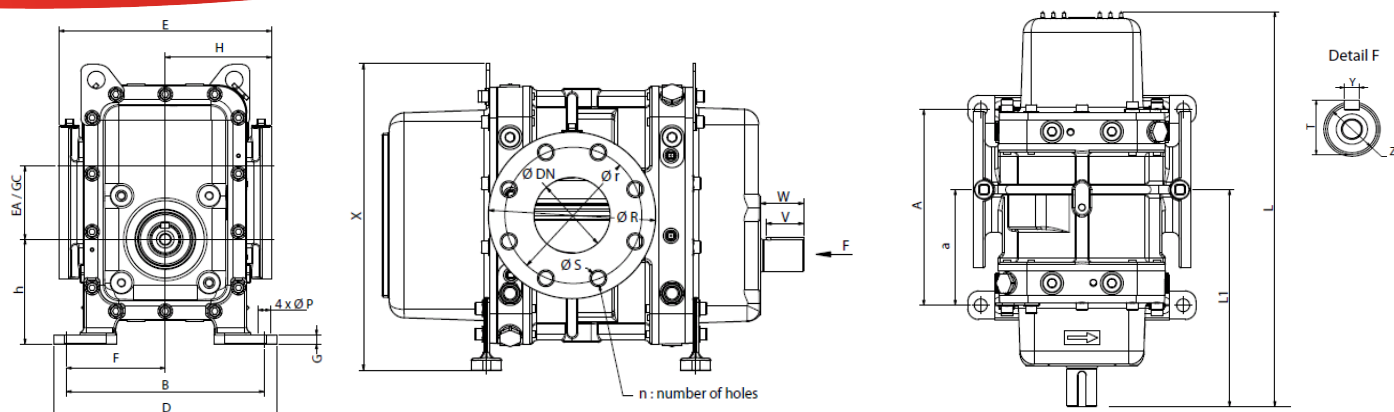
	NX 2 S		NX 3 S		NX 5 S		NX 8 S		NX 12 S		NX 18 S		NX 26 S	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
A	205	8,07	275	10,83	370	14,57	355	13,98	476	18,74	444	17,48	589	23,19
a	103	4,04	163	6,40	213	8,39	208	8,19	278	10,94	222	8,74	339,5	13,37
B	388	15,28	388	15,28	388	15,28	475	18,70	475	18,70	586	23,07	586	23,07
D	424	16,69	424	16,69	424	16,69	515	20,28	515	20,28	626	24,65	626	24,65
E	305	12,01	305	12,01	305	12,01	370	14,57	370	14,57	450	17,72	450	17,72
EA	106	4,17	106	4,17	106	4,17	135	5,31	135	5,31	173	6,81	173	6,81
F	194	7,64	194	7,64	194	7,64	238	9,37	238	9,37	293	11,54	293	11,54
G	13	0,51	13	0,51	13	0,51	13	0,51	13	0,51	15	0,59	15	0,59
h	153	6,00	153	6,00	153	6,00	185	7,28	185	7,28	225	8,86	225	8,86
L	485	19,09	555	21,85	650	25,59	671	26,42	791	31,14	848	33,39	993	39,09
L1	245	9,65	305	12,01	356	14,02	385	15,16	454	17,87	441	17,36	559	22,01
T	45	1,77	45	1,77	45	1,77	51,5	2,03	51,5	2,03	69	2,72	69	2,72
V	50	1,97	50	1,97	50	1,97	70	2,76	70	2,76	90	3,54	90	3,54
W	57	2,24	57	2,24	58	2,28	81	3,19	80	3,15	102	4,02	102	4,02
Y	12	0,47	12	0,47	12	0,47	14	0,55	14	0,55	18	0,71	18	0,71
ØZ*	42	1,65	42	1,65	42	1,65	48	1,89	48	1,89	65	2,56	65	2,56
ØR	200	7,87	220	8,66	220	8,66	250	9,84	285	11,22	340	13,39	340	13,39
Ør	160	6,30	180	7,09	180	7,09	210	8,27	240	9,45	295	11,61	295	11,61
ØDN	80	3,15	100	3,94	100	3,94	125	4,92	150	5,91	200	7,87	200	7,87
ØP	18	0,71	18	0,71	18	0,71	18	0,71	18	0,71	22	0,87	22	0,87
ØS	18	0,71	18	0,71	18	0,71	18	0,71	22	0,87	22	0,87	22	0,87
n	8		8		8		8		8		8		8	

* Fitting tolerance range : m6

Process Blowers

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Top and Bottom shaft blower dimensions



	NX 2 S		NX 3 S		NX 5 S		NX 8 S		NX 12 S		NX 18 S		NX 26 S	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
A	205	8,07	275	10,83	370	14,57	355	13,98	476	18,74	444	17,48	589	23,19
a	103	4,04	163	6,40	213	8,39	208	8,19	278	10,94	222	8,74	339,5	13,37
B	284	11,18	284	11,18	284	11,18	336	13,23	336	13,23	414	16,30	414	16,30
D	320	12,60	320	12,60	320	12,60	376	14,80	376	14,80	454	17,87	454	17,87
E	305	12,01	305	12,01	305	12,01	370	14,57	370	14,57	450	17,72	450	17,72
EA	106	4,17	106	4,17	106	4,17	135	5,31	135	5,31	173	6,81	173	6,81
F	142	5,59	142	5,59	142	5,59	168	6,61	168	6,61	207	8,15	207	8,15
G	13	0,51	13	0,51	13	0,51	13	0,51	13	0,51	15	0,59	15	0,59
H	153	6,00	153	6,00	153	6,00	185	7,28	185	7,28	225	8,86	225	8,86
h	152	5,96	152	5,96	152	5,96	187	7,36	187	7,36	225	8,84	224,5	8,84
L	485	19,09	555	21,85	650	25,59	671	26,42	791	31,14	848	33,39	993	39,09
L1	245	9,65	305	12,01	356	14,02	385	15,16	454	17,87	441	17,36	559	22,01
T	45	1,77	45	1,77	45	1,77	51,5	2,03	51,5	2,03	69	2,72	69	2,72
V	50	1,97	50	1,97	50	1,97	70	2,76	70	2,76	90	3,54	90	3,54
W	57	2,24	57	2,24	58	2,28	81	3,19	80	3,15	102	4,02	102	4,02
X	405	15,93	405	15,93	405	15,93	499	19,65	499	19,65	621	24,45	621	24,45
Y	12	0,47	12	0,47	12	0,47	14	0,55	14	0,55	18	0,71	18	0,71
ØZ*	42	1,65	42	1,65	42	1,65	48	1,89	48	1,89	65	2,56	65	2,56
ØR	200	7,87	220	8,66	220	8,66	250	9,84	285	11,22	340	13,39	340	13,39
Ør	160	6,30	180	7,09	180	7,09	210	8,27	240	9,45	295	11,61	295	11,61
ØDN	80	3,15	100	3,94	100	3,94	125	4,92	150	5,91	200	7,87	200	7,87
ØP	18	0,71	18	0,71	18	0,71	18	0,71	18	0,71	22	0,87	22	0,87
ØS	18	0,71	18	0,71	18	0,71	18	0,71	22	0,87	22	0,87	22	0,87
n	8		8		8		8		8		8		8	

* Fitting tolerance range : m6



Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

