



UN SERIES

SIDE CHANNEL / RING & CENTRIFUGAL BLOWERS





ABOUT US

USHA NEUROS TURBO LLP, world leader in Air foil bearing Turbo blower proudly introduces Side Channel / Ring & Centrifugal Blowers

Having years of experience in the research and development of gas turbine engines, used in aircraft, and production know-how of turbo machineries. Usha Neuros air foil bearing turbo blower is the most experienced / proven manufacturing company in the world with over 6,500 units installed in the world in the high-speed turbo blower. As a result, Usha Neuros acquired a premium brand reputation for a high efficiency technology and the eco-friendliness.

MISSION

Based on the customer requirements & technology upgradation, we provide cost effective innovative solutions to our customers and fulfill our social responsibilities to the environment and energy.

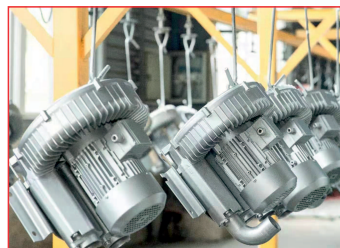
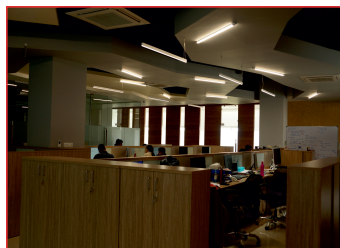
USHA NEUROS TURBO LLP, challenges itself to reach new milestones in advance innovative technology for customer centric approach.

OUR PHILOSOPHY

We thrive for utmost technological advances and assured quality for the utmost customer satisfaction and committed to achieve the same under any circumstances.

MEETING CUSTOMER REQUIREMENTS EVERYTIME

Fully trained engineers are dedicated to finding economical solutions to meet customer's need. Finding the perfect solution commences with a detailed analysis of your special requirements. We devote considerable time and money to defining your problem. Highly qualified engineers offer advice to ensure that you obtain the best available solution.



USHA NEUROS SIDE CHANNEL BLOWER



WORKING PRINCIPLE

A **Side Channel Blower** transports air or gas by rotating an impeller through a close narrow fitted motor at high speed. The pressure in the channel is intensified by a turbulent stream in the radial channel. By using this method, the side channel blower is able to build a great differential pressure between inlet and outlet. The burden on the drive increases as the built-up pressure, depending on the system resistance, increases. An internal silencer allows the Usha Neuros Side Channel Blowers to run very quietly.

- **FLOW RATES : 5 - 2500 m³/hr**
- **PRESSURE RANGE : 100 - 1040 mbar**
- **VACUUM RANGE : 100 - 740 mbar**

USHA NEUROS CENTRIFUGAL BLOWER

WORKING PRINCIPLE

A **Centrifugal Blower** use the kinetic energy of the impeller to move the air stream, which in turn moves against the resistance caused by ducts, dampers and other components. When the impeller rotate, the air particles near the impeller are thrown off from the impeller, after that air moves into the fan casing and then the air is guided to the exit via outlet ducts. Centrifugal fans displace air radially, changing the direction (typical by 90°) of the airflow. They are sturdy, quiet, reliable, and capable of operation over a wide range of conditions.

- **FLOW RATES : 75 - 8000 m³/hr**
- **PRESSURE RANGE : 0.7 - 13 kPA**
- **VACUUM RANGE : 0.7 - 13 kPA**



SALIENT FEATURES

Usha Neuros Blowers are 100% Oil free & Maintenance free, safe for critical applications, It's the first choice in many automation projects for applications requiring Low & Medium volumes of clean & dry air at low pressures and vacuum.

- Bottom Mounting Base is designed to reduce the Vibration & Noise, Low noise operation (55-85db(A)) with small footprint & virtually maintenance free design with no lubrication.
- Available in single / three phase configuration & single / double / triple stage design. Designed for continual use up to a maximum ambient temp of 45°C-50°C.
- Equipped with a low-noise, high-efficiency, Class F Insulation Induction Motors (50/60 Hz Dual Frequency).

Specification

SIDE CHANNEL BLOWER

Model	Power (kW)	Flow Rate (m ³ / hr)	Vacuum (mbar)	Pressure (mbar)	Noise Level (db)	Weight (kg)
2UNX-110-A11	0.25	70	-110	110	48	8
2UNX-210-A11	0.37	80	-120	130	53	11
2UNX-220-A21	0.70	88	-210	240	55	15
2UNX-310-A11	0.70	100	-150	150	55	14
2UNX-320-A31	1.10	120	-240	280	58	17
2UNX-410-A11	0.80	145	-150	160	63	15
2UNX-410-A21	1.10	145	-150	190	63	16
2UNX-420-A31	1.50	150	-280	290	66	26
2UNX-510-A11	1.10	210	-160	160	64	21
2UNX-510-A21	1.50	210	-190	200	64	24
2UNX-710-A11	2.20	318	-190	190	72	31
2UNX-210-H16	0.40	80	-120	130	53	10
2UNX-220-H26	0.70	88	-210	240	55	14
2UNX-310-H16	0.75	110	-150	150	55	13
2UNX-320-H26	0.85	110	-200	230	58	17
2UNX-320-H36	1.30	110	-280	290	58	18
2UNX-410-H16	0.85	145	-160	160	63	15
2UNX-410-H26	1.30	145	-170	200	63	16
2UNX-420-H36	1.60	150	-280	280	66	24
2UNX-420-H46	2.20	150	-330	440	66	27
2UNX-510-H16	1.30	210	-170	170	64	20
2UNX-510-H26	1.60	210	-200	190	64	21
2UNX-510-H36	2.20	210	-220	270	64	25
2UNX-520-H46	3.00	230	-340	410	72	39
2UNX-520-H57	4.00	230	-390	440	72	43
2UNX-610-H06	1.60	265	-170	180	65	24
2UNX-610-H16	2.20	265	-235	220	65	27
2UNX-610-H26	3.00	265	-280	280	65	32
2UNX-710-H16	2.20	318	-190	190	69	29
2UNX-710-H26	3.00	318	-260	270	69	34
2UNX-710-H37	4.00	318	-290	360	69	42
2UNX-720-H26	3.00	320	-280	260	73	47
2UNX-720-H37	4.30	320	-360	380	73	53
2UNX-720-H47	5.50	320	-440	500	73	70
2UNX-720-H57	7.50	320	-440	570	73	77
2UNX-810-H07	4.00	530	-200	200	70	54
2UNX-810-H17	5.50	530	-300	300	70	63
2UNX-810-H27	7.50	530	-320	430	70	66
2UNX-820-H17	5.50	520	-280	260	74	83
2UNX-820-H27	7.50	520	-400	400	74	86
2UNX-820-H37	11.00	520	-430	600	74	104
2UNX-820-H47	15.00	520	-460	670	74	120
2UNX-830-H17	5.50	700	-200	190	70	66
2UNX-910-H07	8.50	1050	-190	190	74	93
2UNX-910-H17	12.50	1050	-290	280	74	116
2UNX-910-H37	18.50	1050	-360	460	74	126
2UNX-920-H17	12.50	1110	-300	270	74	187
2UNX-920-H27	16.50	1110	-410	370	74	197
2UNX-920-H37	20.00	1110	-440	500	74	204
2UNX-920-H47	25.00	1110	-440	590	74	211

CENTRIFUGAL BLOWER

Model	Power (kW)	Flow Rate (m ³ / hr)	Vacuum (kPA)	Pressure (kPA)	Noise Level (db)	Weight (kg)
UNC-65A	0.20	270	- 0.70	1.10	50	10
UNC-75SA	0.40	420	- 1.10	1.60	56	11
UNC-75A	0.75	780	- 1.0	2.40	64	14
UNC-100A	1.50	1200	- 2.00	3.00	74	28

- ◆ Reference Conditions : 1.033 kgf / cm²a, 20°C, 65% RH
- ◆ The specification of the product may be changed for improvement of performance without notice.
- ◆ Tolerance on Capacity and Power \pm 5%

Features, Advantages & Benefits

FEATURES	ADVANTAGES	BENEFITS
Over Load Relay Protection	It Prevents Overheating	Prevents Motor From Burning
Pulsation Free Discharge	Smooth Air Flow	Stable Air Flow & Very Low Vibration Levels
Low Noise Level	Silent Operation	No Need For Any Special Acoustic Treatment
Direct Drive	Compact Blower Motor Assembly	Small Footprint
No Oil Usage	100% Oil Free Air	Good Air Quality
MOC - Die - Cast Aluminium Alloy (ADC 12)	Light Weight, Robust & Corrosion Resistant	Suitable For wide Applications, Easy to Carry Around
Available in Single Stage & Double Stage Configuration	No Intermittent Rest / Shut Off Required	24 * 7* 365 Air Delivery
Designed For Continuous Duty Operation	Higher Pressure Ratios	Suitable for Applications Demanding Higher Working Pressures
50 / 60 Hz Dual Frequency Motor	Higher Geographic Coverage & VFD Operation Possible	Higher Flow Rates
Air Cooled Design	No Cooling Water Required	Freedom from Extra Utilities
Direct Mount Impeller	No Belt Drive or Gear Drive System	Negligible Maintenance Cost & Down Times
Maintenance Free	Zero Down Time	Higher Process Output
Dyanamically Balanced Impeller	Complete Dynamic Stability	Does Not Require Any Special Foundations

INDUSTRIES WE SERVE

WWTP, STP & ETP

- ◆ Swimming Pools, Whirlpools And Jacuzzi
- ◆ Tank Aeration
- ◆ Digester Gas Processing
- ◆ Bio Gas Boosting
- ◆ Back Washing Of Filter/mixed Beds



FOOD PROCESSING

- ◆ Conveying Grains, Flour Etc.
- ◆ Dehydration
- ◆ Packing
- ◆ Fermentation Process



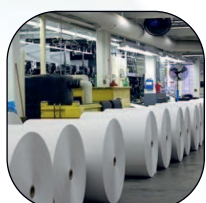
MEDICAL EQUIPMENTS

- ◆ Dental Vacuum Systems
- ◆ Autoclave Blowing Machines



PAPER INDUSTRY

- ◆ Drying, Conveying & Vacuum Pickup
- ◆ UV Curing Printing Machines
- ◆ Corrugated Box Machinery System

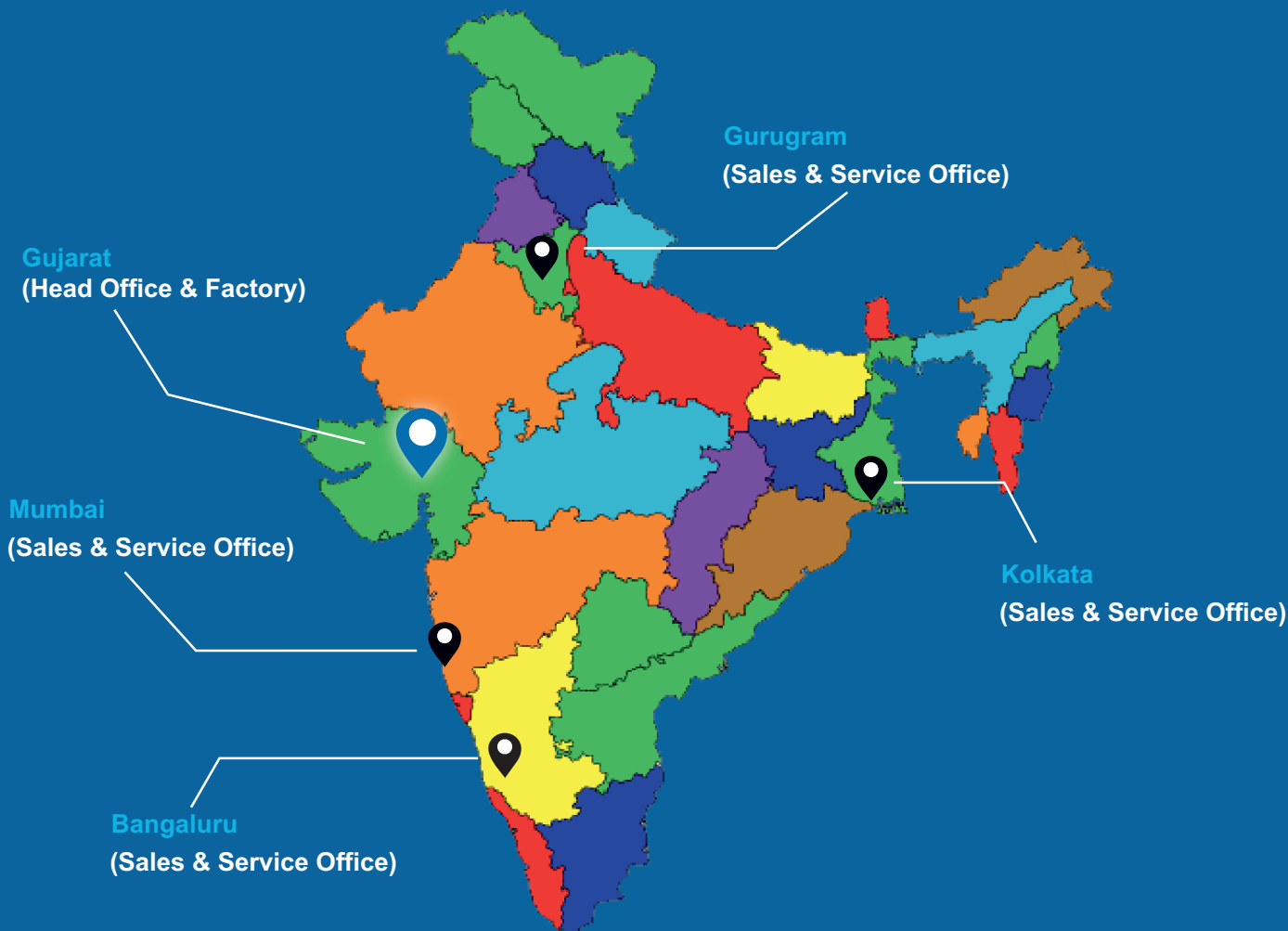


ENVIRONMENTAL

- ◆ Dust & Fumes Extraction
- ◆ Air Sparging
- ◆ Compost Aeration
- ◆ Dust Collection And Disposal

Sales & Service Network in India

USHA NEUROS TURBO LLP operates a network of key locations in India and promises to do its best to provide prompt service.



MUMBAI

1, Salooni Apartment, 56th Road,
TPS III, Borivali (W), Mumbai-400 092.
Tel. : 022-28990680
Mobile : + 91 98243 96007
E - mail : shalabh@ushaneuros.com
sales1@ushaneuros.com

KOLKATA

Flat No. 5, 5th Floor, Block 4,
Shawbhumi Residency, 12-Motijhil Avenue,
Kolkata - 700 074
Mobile : +91 93398 72539
E - mail : kolkata@ushaneuros.com
sales@ushaneuros.com

BENGALURU

G-2, Marutham Green View,
5th 'C' Cross M. R. Gardens V. Nagenahalli,
R. T. Nagar, Bengaluru - 560 032.
Mobile : +91 97243 96545
E - mail : guru@ushaneuros.com

GURUGRAM

8th Floor, Tower C, Building No. 8,
DLF Phase 2, Sector 24,
Gurugram - 122 002
Mobile : + 91 99243 96007
+91 99242 96007
E - mail : sales_delhi@ushaneuros.com

SURAT : Mobile - +91 97276 66773
VAPI : Mobile - +91 97276 66772
CHENNAI : Mobile - +91 97243 96545



HEAD OFFICE & FACTORY

Survey No. 70, PO. Bhayla, Bavla-Bagodara Highway, Ta. Bavla, Ahmedabad - 382220, Gujarat, India.
Website : www.ushaneuros.com
E-mail : sales@ushaneuros.com, customercare@ushaneuros.com
Mobile : + 91 - 99799 71620 / +91 - 99799 71630

