



Eco-Friendly High Efficiency Turbo Blowers & Compressors

Turbo Blowers NX Series
Turbo Compressors NC Series

IoT Enabled Remote Monitoring



**DESIGN, BUILD, IGNITE....
ENGINEERING, REVOLUTION**

Environmentally Friendly,
High-Efficiency Turbomachinery
Born From Advanced Aerospace Technology

NX Turbo Blower

6~648 m³/min @ 0.25~1.0 kgf/cm²

NC Turbo Compressor

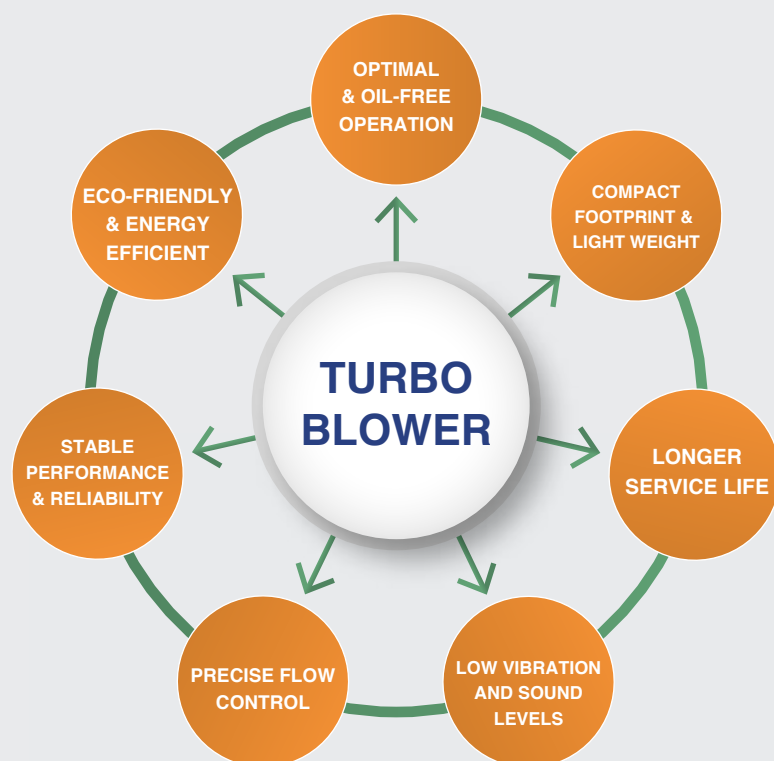
12~230 m³/min @ 1.0~2.0 kgf/cm²

NXM Turbo Blower

35~630 m³/min @ 0.3~1.0 kgf/cm²

NT Turbo Compressor

30~60 m³/min @ 2.0~3.5 kgf/cm²



Municipal &
Industrial

**Turbo Blowers /
Compressors**

Aerospace
Turbo Engine
Technology

**Aerospace Turbo
Machinery**

Turbo Engines,
ACM, ECS

**Water
Treatment**

Pump, Filtration Equipment,
Water Treatment Process

BE CURIOUS, CHALLENGE THE FUTURE!



Global Leader in Turbo Technology

Proven reliability and performance in leading Global markets including India, Nepal, Middle East, North America, Europe, and Korea.

Clear, objective indicators of UN's / NS's world-class turbo technology.

We are dedicated to proposing the most suitable solutions for every customer, pursuing perfection through continuous innovation, rigorous quality verification, and comprehensive after-sales service.

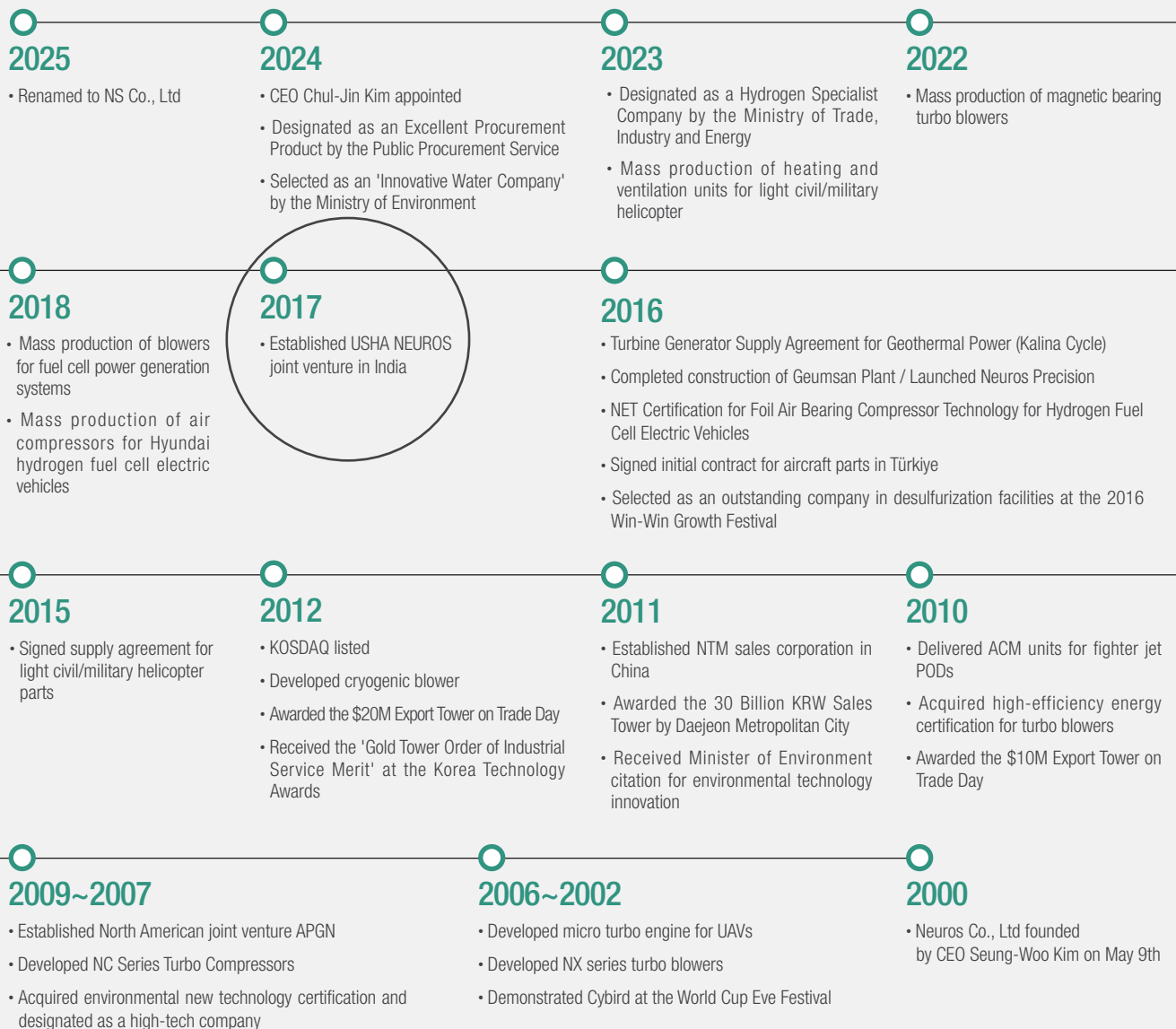
Building UN / NS into a global premium brand through strong, long-term partnerships.

Innovative Solutions Designed To Deliver Future Value For Our Customers

Our innovation is driven by relentless curiosity and deep insight.

We explore possibilities beyond conventional boundaries, anticipate hidden customer needs, and strive to create lasting value for the future.

History

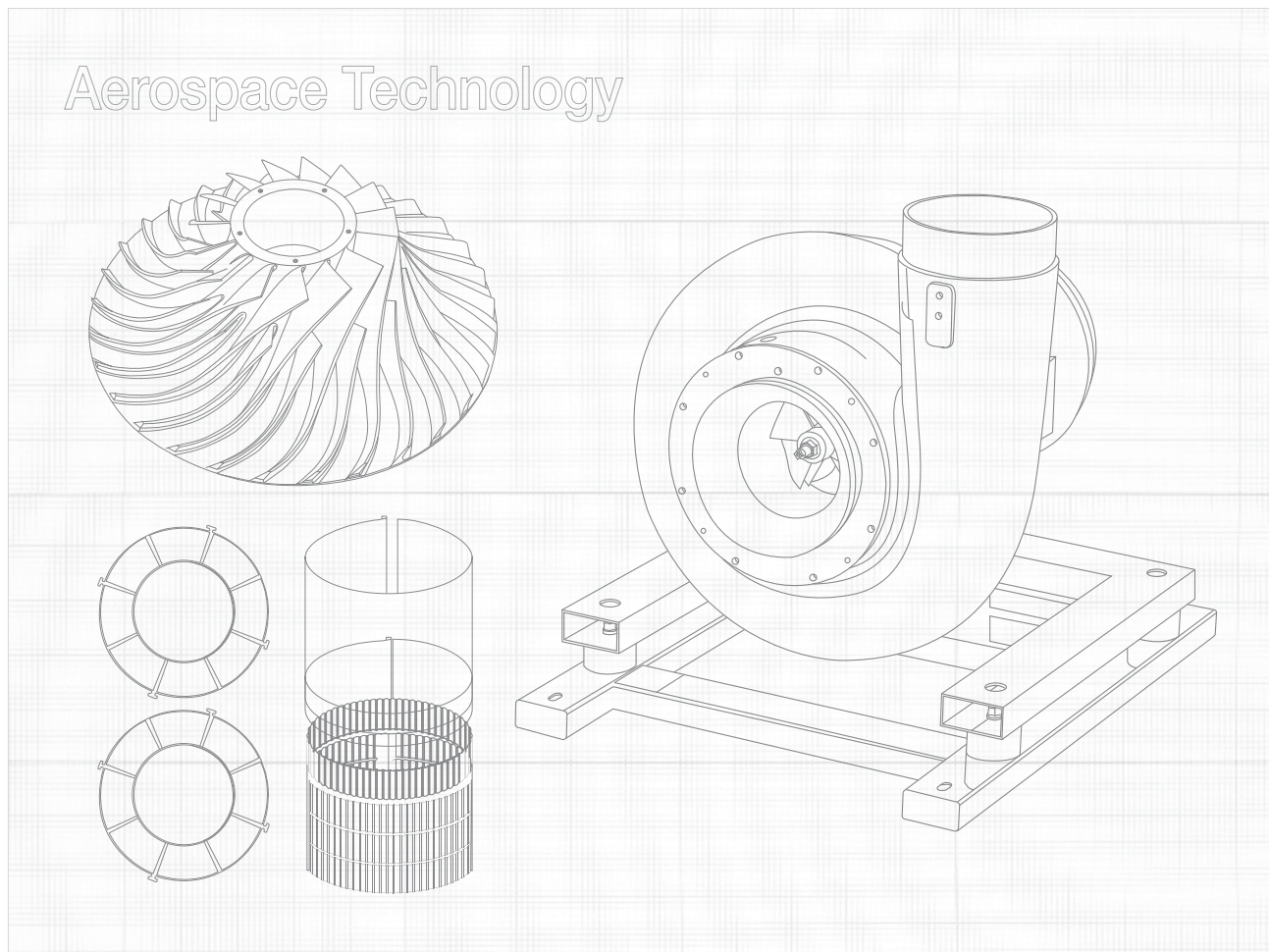


Born From Aerospace Technology

UN turbo machinery represents the pinnacle
of advanced aerospace-based technology.

UN's advanced engineering goes beyond conventional industrial turbo systems
to deliver breakthrough performance.

We are committed to delivering trusted technology and top-tier performance.





High-Efficiency Impeller With Optimized Aerodynamic Design

- Industry-leading efficiency through optimal impeller and diffuser design
- Designed for ideal specific speed based on decades of axial/centrifugal compressor development experience
- Machined from forged aerospace-grade aluminum alloy using 5-axis CNC to minimize tip clearance
- Spin-tested at 120% of rated speed to verify structural integrity
- Hard anodized impeller and casing for improved durability and corrosion resistance



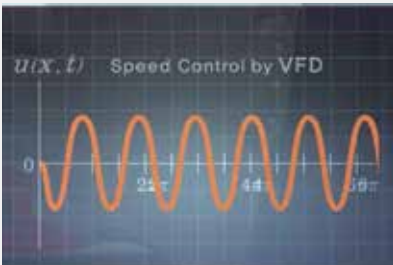
High-Efficiency, High-Speed Motor

- NS-developed PMSM (Permanent Magnet Synchronous Motor) delivers over 95% efficiency and power factor
- Rotor directly coupled to impeller eliminates gear system, reducing energy loss



Aerospace-Based Air Bearings

- Leverages hydrodynamic pressure between rotor and foils for non-contact support, supplying 100% oil-free compressed air
- Proven reliability through military-grade aircraft ACM/ECS systems
- Passed 1,000,000 on/off cycles for use in fuel cell turbo compressors-an industry first
- Patents No. 10-0964883 and 10-1068542



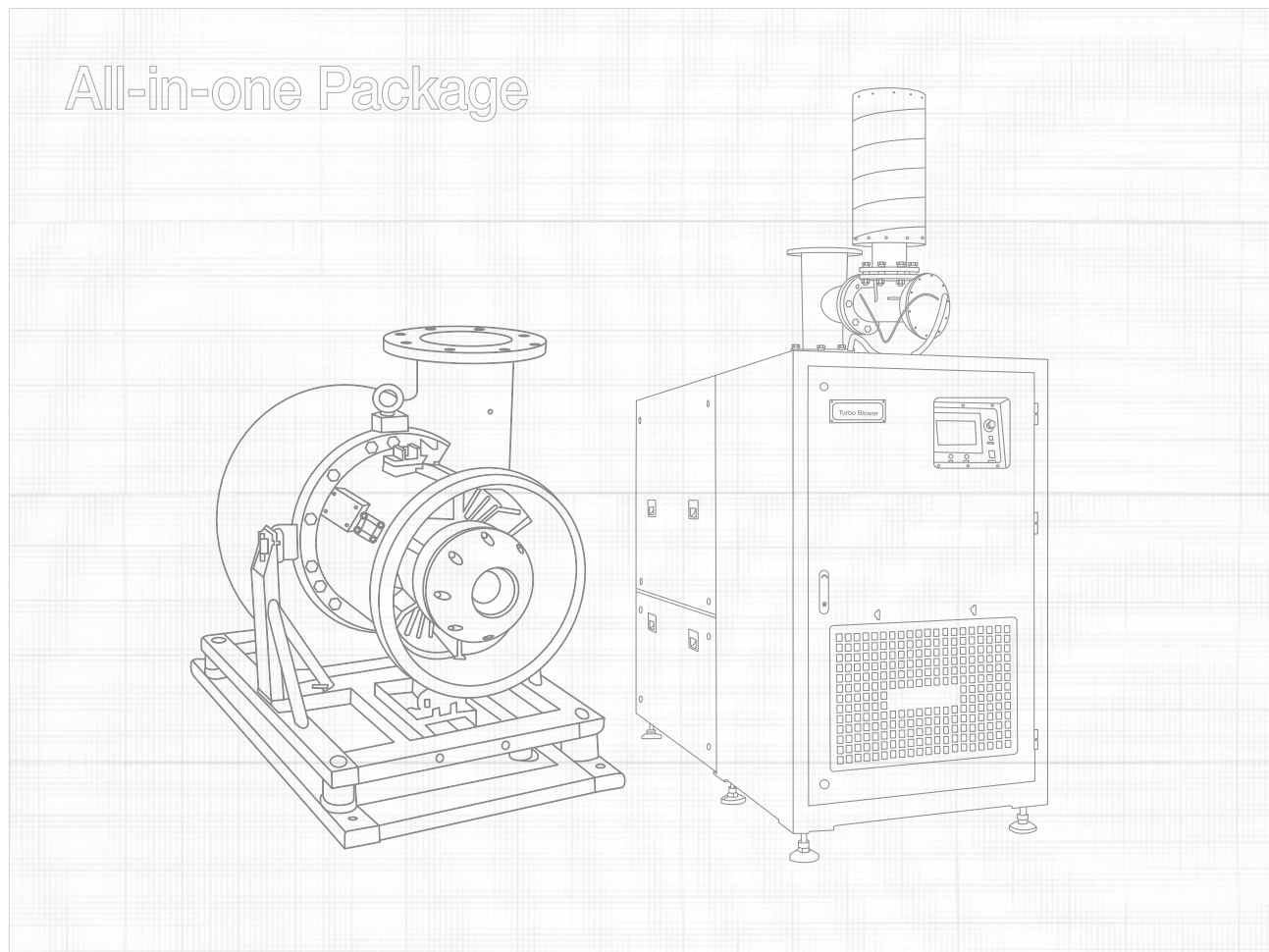
High-Efficiency VFD

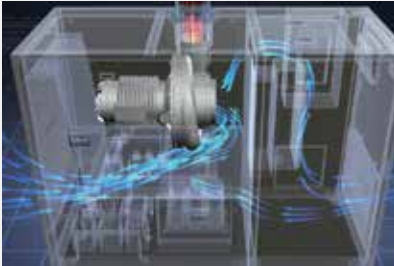
- Adjusts PMSM speed for optimal flow and discharge pressure, eliminating energy waste
- Inverter starts below 100% of rated voltage
- Fast load responsiveness

Designed For Your Convenience

Engineered for high-demand industrial use
with intuitive usability for all operators

Technological advancement must be accompanied by operational simplicity.
User-focused design enables effortless use of complex features.





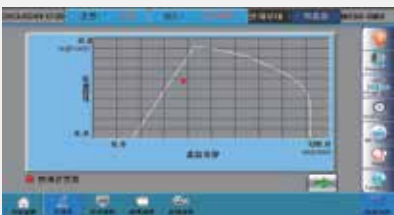
Proprietary Cooling System

- Intake air cools both motor and VFD
- Blower housing emits no heat externally, maintaining a comfortable work environment
- Patent No. 10-0572849: Motor cooling via intake air



User-Friendly Control System

- Touchscreen + PLC allows easy operation setup and real-time diagnostics
- Supports constant speed, pressure, flow, and DO-linked control modes
- Compatible with multiple communication protocols for remote operation (HARD WIRING, SERIAL, LAN. etc.)
- Multilingual interface: Korean, English, Chinese, Japanese, Russian, Turkish
- Limits on key variables trigger alarms and automated shutdowns when exceeded



Surge Protection Logic

- Embedded control software detects and prevents surge conditions during operation



Customer-Oriented Configuration Options

- MCP allows individual or collective control of multiple blowers via SCADA and remote systems
- HFS harmonic filter series, designed for UN equipment, reduces THD-V below 5% and THD-I below 8%

Save More, Spend Less

The most practical choice for energy savings
and streamlined operations

Optimized systems and efficient design reduce energy
use and maintenance, enhancing profitability.



Reduced Life Cycle Cost



Simple Maintenance

- Smart filter monitoring with alarm and shutdown functions
- Minimizes service time and costs



Cost-Effective Performance

- Dramatically reduces LCC vs. traditional blowers; fast ROI boosts profits
- Replacing 7-10 kgf/cm² high-pressure compressors with UN units for 1.2-2.0 kgf/cm² applications can cut unit count and reduce energy costs by 50–70%



Eco-Friendly Customer-Driven Design

- Non-contact bearings and proprietary housing limit noise to under 85 dB(A) and vibration to under 1 mm/s (Patent No. 10-0572850)
- No oil system-no risk of environmental contamination
- Integrated package with Plug & Play functionality
- Compact footprint reduces civil, electrical, and piping installation costs

Turbo Blower/Compressor Concept



Description

- | | | |
|--|--|--|
| 1 Power Switch
MCCB | 4 BOV Silencer | 7 BOV
Blow-off Valve |
| 2 LCP
PLC+Touch Screen | 5 Discharge Cone | 8 Pressure Gauge(Optional)
Cooling Water Pressure |
| 3 Air Inlet(Front)
VFD Cooling + Filter | 6 Air Inlet(Rear)
Main Air Inlet + Filter | 9 Cooling Water Gauge(Optional)
Cooling Water Level |



Description

① Core
Air End + Motor

② VFD
Inverter

③ Input Reactor

① Scroll

② Impeller

③ PMSM
Stator + Rotor

④ Air Bearing
Thrust Bearing

⑤ Shaft

⑥ Air Bearing
Journal Bearing

NX Series

Built for peak performance, with user-focused controls, efficient, durable design, and easy upkeep delivering optimal results under any condition.



Flow  9~648m ³ /min	Flow Control Range  45%~100%	Pressure  0.3~1.0 kgf/cm ²	Noise  Below 85 dB	Vibration  Below 1mm/sec	Oil Free  100% Oil-Free System	Bearings  Air bearings applied
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NX Series Specifications

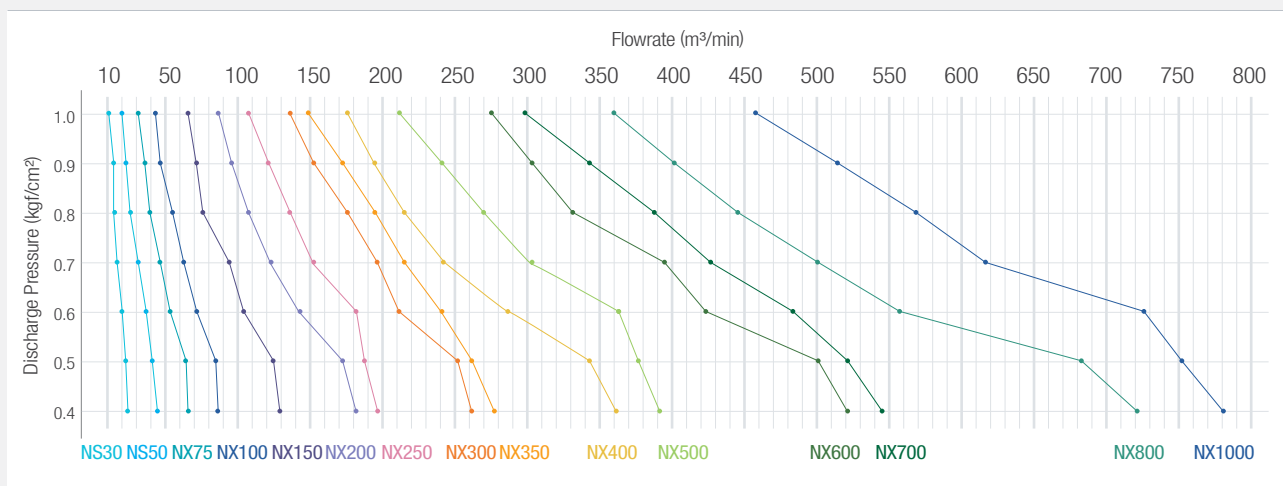
SINGLE CORE		NS20	NS30	NS50	NX75	NX100	NX150	NX200	NX250	NX300	NX350	NX400	NX500
DIFFERENTIAL PRESSURE (kgf/cm²)													
Capacity (m³/min)	0.5	12	21	40	62	83	123	171	188	249	260	284	324
	0.6	10	18	35	52	70	103	142	181	210	241	277	317
	0.7	08	16	30	46	62	92	121	152	196	213	249	307
	0.8	06	14	26	39	53	75	107	134	165	193	222	284
	1.0		11	19	30	42	65	86	106	136	149	179	228
Motor Power (kW)		15	22	37	56	75	112	149	179	224	246	298	358
Dimension (mm)	W	550	650	650	770	770	1000	1000	1400	1400	1400	1650	1650
	L	900	1200	1200	1600	1600	1850	2300	2100	2100	2100	2200	2200
	H	930	1200	1200	1350	1350	1660	1650	1810	1810	2020	2058	2058
Weight (kg)		180	390	390	640	750	880	1150	1430	1490	1860	2420	2420

Condition: 20°C, 101.325kPa, 65%RH

DUAL CORE		NX400	NX500	NX600	NX700	NX800	NX1000
DIFFERENTIAL PRESSURE (kgf/cm²)							
Capacity (m³/min)	0.5	341	376	498	520	568	648
	0.6	284	362	421	482	554	634
	0.7	241	303	392	427	499	615
	0.8	214	269	330	386	445	568
	1.0	173	211	273	298	358	457
Motor Power (kW)		298	358	447	492	597	716
Dimension (mm)	W	1680	1880	1880	1880	2000	2000
	L	2240	3000	3000	3000	3700	3700
	H	1900	2150	2150	2150	2150	2150
Weight (kg)		2200	2670	2860	3110	3670	3670

Condition: 20°C, 101.325kPa, 65%RH

NX Series Blower Flow Range



NC Series

A premium turbo compressor delivering precise pressure without loss-achieving peak efficiency and reliability in applications where conventional high-pressure units fall short.



Flow  12~230m³/min	Flow Control Range  70%~100%	Pressure  1.0~2.0 kgf/cm²	Noise  Below 85 dB	Vibration  Below 1mm/sec	Oil Free  100% Oil-Free System	Bearings  Air bearings applied
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NC Series Specifications

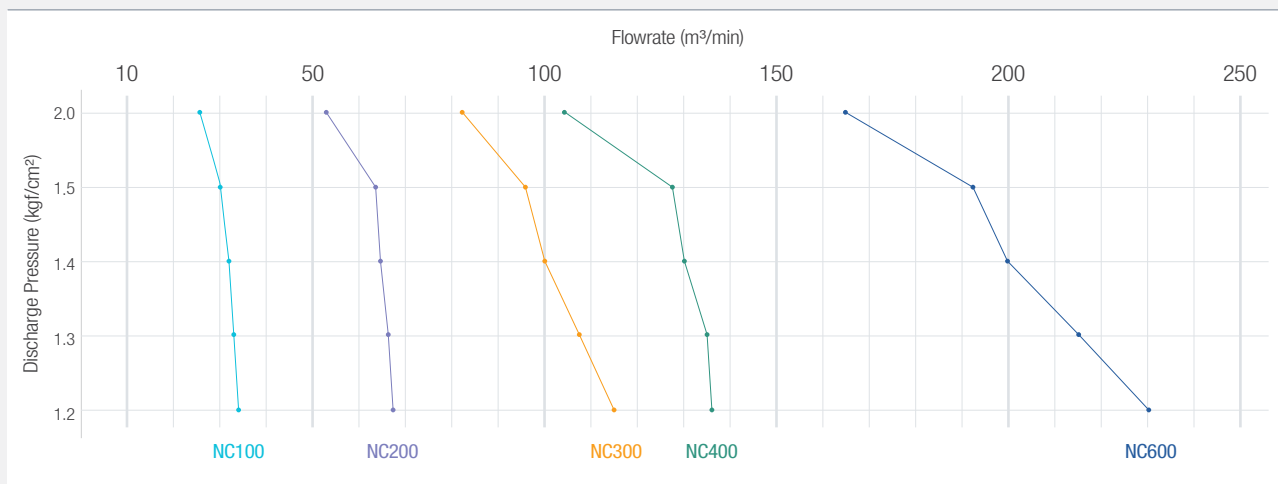
SINGLE CORE		NC100	NC200	NC300
DIFFERENTIAL PRESSURE (kgf/cm²)				
Capacity (m³/min)	1.2	33	68	115
	1.3	32	67	108
	1.4	31	65	100
	1.5	30	64	96
	2.0	26	52	82
Motor Power (kW)		75	149	224
Dimension (mm)	W	1120	1000	1400
	L	1750	2100	2100
	H	1560	1690	2020
Weight (kg)		1130	1240	2090

Condition: 20°C, 101.325kPa, 65%RH

DUAL CORE		NC400	NC600
DIFFERENTIAL PRESSURE (kgf/cm²)			
Capacity (m³/min)	1.2	136	230
	1.3	134	216
	1.4	130	200
	1.5	128	192
	2.0	104	164
Motor Power (kW)		298	447
Dimension (mm)	W	1680	1880
	L	2240	3000
	H	1900	2150
Weight (kg)		2700	3400

Condition: 20°C, 101.325kPa, 65%RH

NC Series Compressor Flow Range



NXM Series

A turbo blower that combines a high-efficiency impeller, scroll, and magnetic bearing to deliver industry-leading performance and reliability. It offers a balanced combination of high efficiency, environmental friendliness, and user friendly operation.



Flow  35~630m ³ /min	Flow Control Range  45%~100%	Pressure  0.3~1.0 kgf/cm ²	Noise  Below 85 dB	Vibration  Below 1mm/sec	Oil Free  100% Oil-Free System	Bearings  Magnetic bearings applied
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NXM Series Specifications

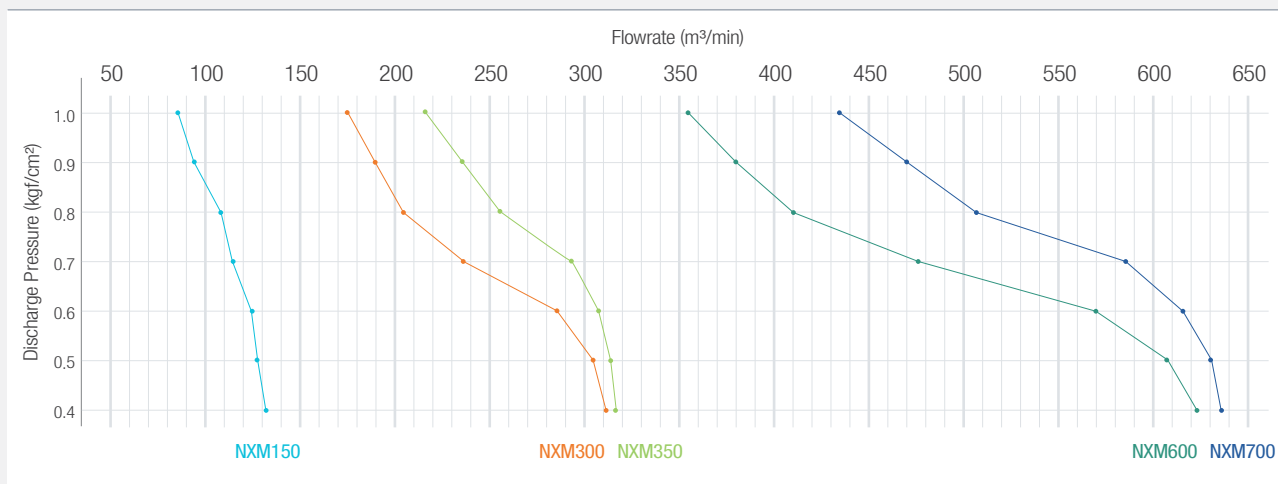
SINGLE CORE		NXM150	NXM300	NXM350
DIFFERENTIAL PRESSURE (kgf/cm²)				
Capacity (m³/min)	0.5	132	304	315
	0.6	129	285	308
	0.7	114	238	293
	0.8	109	205	254
	1.0	88	176	217
Motor Power (kW)		150	300	350
Dimension (mm)	W	1670	2000	2000
	L	1660	2637	2637
	H	2164	2247	2247
Weight (kg)		1530	2850	2850

Condition: 20°C, 101.325kPa, 65%RH

DUAL CORE		NXM600	NXM700
DIFFERENTIAL PRESSURE (kgf/cm²)			
Capacity (m³/min)	0.5	608	630
	0.6	570	616
	0.7	476	585
	0.8	410	508
	1.0	352	433
Motor Power (kW)		600	700
Dimension (mm)	W	2000	2000
	L	3700	3700
	H	2150	2150
Weight (kg)		4423	4423

Condition: 20°C, 101.325kPa, 65%RH

NXM Series Blower Flow Range



Application

Proven solutions that maximize efficiency in a wide range of industries.

Optimized for wastewater treatment, chemical processing, manufacturing, and more.

Water Treatment



Oxygenation for aeration, mixing, and collection tanks

Air Backwash Systems



For membrane-based air scouring

Material Transport



Conveyance of powders and bulk materials

Desulfurization



Oxygen-based chemical desulfurization systems

Air Knife



For manufacturing and plating line applications

Industrial Washing Systems



For cleaning films, textiles, and other chemical products

Industrial Drying Systems



For drying food, laundry, and more

Enclosure Type Variety

UN turbo blowers meet all protection and installation requirements, performing with excellence and durability even in extreme environments-supporting both operational efficiency and reliability.

Outdoor Type

- Designed for external installation
- Enclosure prevents rain ingress



Split Type

- For separate installation of electrical and mechanical enclosures
- Electrical/inverter enclosure separated from mechanical unit



Flange Type

- External air intake through suction chamber
- Flange-style connection for piping



Dual Core Type

- Two cores in one housing
- Expands flow rate range



Customer Base & Installations

Usha Neuros has a rich customer base including EPC COntrollers, Consultants, Municipal Customers and Industrial Clients in WWTP as well as Industrial Applications.

The logo for Adani, featuring the word "adani" in a lowercase, sans-serif font. The "a" and "d" are blue, while the "a", "n", and "i" are purple.The logo for Pidilite, featuring a stylized blue wave with a yellow sun above it, and the word "Pidilite" in a blue, sans-serif font below.The logo for Indorama Ventures, featuring the word "INDORAMA" in a bold, blue, sans-serif font, with "VENTURES" in a smaller, blue, sans-serif font below it.The logo for Raymond, featuring a stylized red "R" above the word "raymond" in a red, sans-serif font.The logo for Alok Industries Limited, featuring a stylized blue and red "A" followed by the text "ALOK INDUSTRIES LIMITED" and "INNOVATIVE TEXTILE SOLUTIONS" in a blue, sans-serif font.The logo for Triveni Engineering & Industries Ltd., featuring the word "Triveni" in a stylized orange font, with "ENGINEERING & INDUSTRIES LTD." in a smaller, black, sans-serif font below it.The logo for Suez, featuring a stylized green "S" followed by the word "suez" in a blue, sans-serif font.The logo for Enviro Infra Engineers Limited, featuring a stylized green leaf with a blue drop above it, and the text "EiE" and "ENVIRO INFRA ENGINEERS LIMITED" in a green, sans-serif font below.The logo for P&C Projects, featuring a stylized orange "P" and "C" followed by the text "P&C PROJECTS" in a blue, sans-serif font.The logo for Welspun Enterprises, featuring a stylized blue "W" above the text "WELSPUN ENTERPRISES" and "Infrastructure and Energy" in a blue, sans-serif font.The logo for Trident Group, featuring a stylized green and blue "T" followed by the text "TRIDENTGROUP™" and "Being different is normal" in a green, sans-serif font.



hubergroup



HNB ENGINEERS PVT. LTD.
Engineers & Turnkey Contractors



Vardhmān

Delivering Excellence. Since 1965.

Vardhman Textiles Ltd.

ABInBev

VEOLIA



WABAG

Shapoorji Pallonji



xylem
Let's Solve Water



Rajkamal Builders
Infrastructure Pvt. Ltd.

ARVIND
FASHIONING POSSIBILITIES



Installation Examples:

10,000 installation globally including 550+ installations within india.



564 MLD Okhla
WWTP Plant



150 MLD K&C
valley STP



100 MLD Vinzol WWTP
Project



60 MGD Keshopur
STP Plant



60 MLD Jaspur
STP Plant



60 MLD
koyembadu



25 MGD Rohini STP
Project



25 MLD Dafnala
STP Project



16 MLD Sayaji
Garden Plant

Industrial Installation :



ETP Project
Clean Fino



Budhni ETP
Plant



Indocount
Colour ETP



Wonder Cement
Blast Furnace



ETP Plant
Huber Group



Balotra CETP
SBR Blowers



Kothari Fermentation
(Yeast Fermentation)



Banas Dairy WWTP
Project



Indocount Non
Colour ETP

Asia's Largest WWTP Plant located in Okhla, Delhi.



Project Name :- 564 MLD Okhla WWTP Plant

EPC Contractor:- Suez India Pvt. Ltd.

Client: Delhi Jal Board (DJB)

Model:- NX350-C080

Quantity:- 27 Nos.

Suction Flow: 12,400 m³/hr

Discharge Pressure: 0.75 kgf/cm²(G)

150 MLD K&C Valley STP Project, Bengaluru



Project:-150 MLD K&C valley STP Project

EPC Contractor:- VA Tech WABAG Limited
Client: Bengaluru Water Supply and
Sewerage Board (BWSSB)
Blower Model:- NX500-C080

Quantity:- 12 Nos.
Suction Flow: 13,647 m³/hr
Discharge Pressure: 0.80 kgf/cm²(G)

100 MLD Vinzol STP Project, Ahmedabad



Project:- 100 MLD Vinzol STP Project

EPC Contractor:- HNB Engineers Pvt. Ltd.

Client: Amdavad Municipal Corporation (AMC)

Blower Model:- NX300-C070

Quantity:- 9 Nos.

Suction Flow: 8,200 m³/hr

Discharge Pressure: 0.70 Bar(G)

120 MLD kodungaiyur STP Project, Chennai



Project Name :- 120 MLD Kodungaiyur STP Project, Chennai

EPC Contractor:- P&C Projects Pvt. Ltd.

Client: Chennai Metropolitan water Supply and Sewerage Board

Model:- NX200-C050

Quantity:- 8 Nos.

Suction Flow: 10,000 m³/hr

Discharge Pressure: 0.60 kgf/cm²(G)

Impact, Mission and Vision

2026 Impact Figures Blower References

550 + Turbo Blowers



Total HP Installed
1,65,970 HP



Power Savings
58,000 HP in Savings



Annual Energy Savings
250 million kWh/year



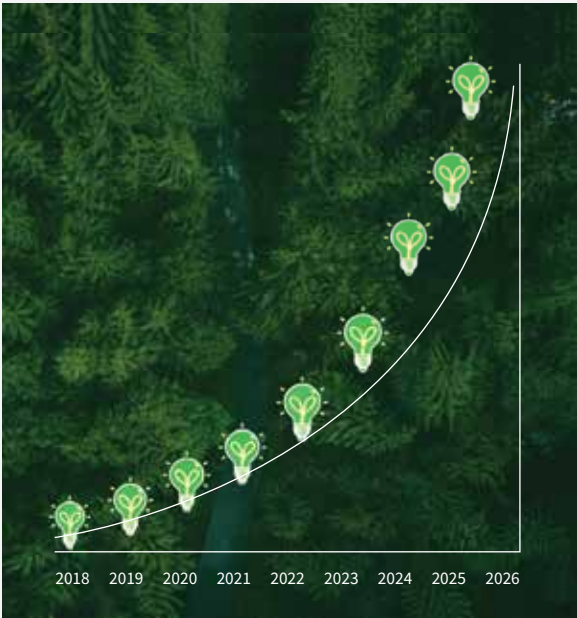
CO2 Reduction
200,000 metric tons/year



Future Goals

Our Vision for 2030

- 1 **Target**
2,000 Turbo Blowers installed by 2030.
- 2 **Focus**
Continuous innovation, expanding product range, and increasing impact.
- 3 **Commitment**
Further reducing carbon footprints and advancing sustainability.



Sustainability in Action



Energy Savings



Carbon Footprint Reduction

BE CURIOUS, CHALLENGE THE FUTURE!

Next-Generation Solution

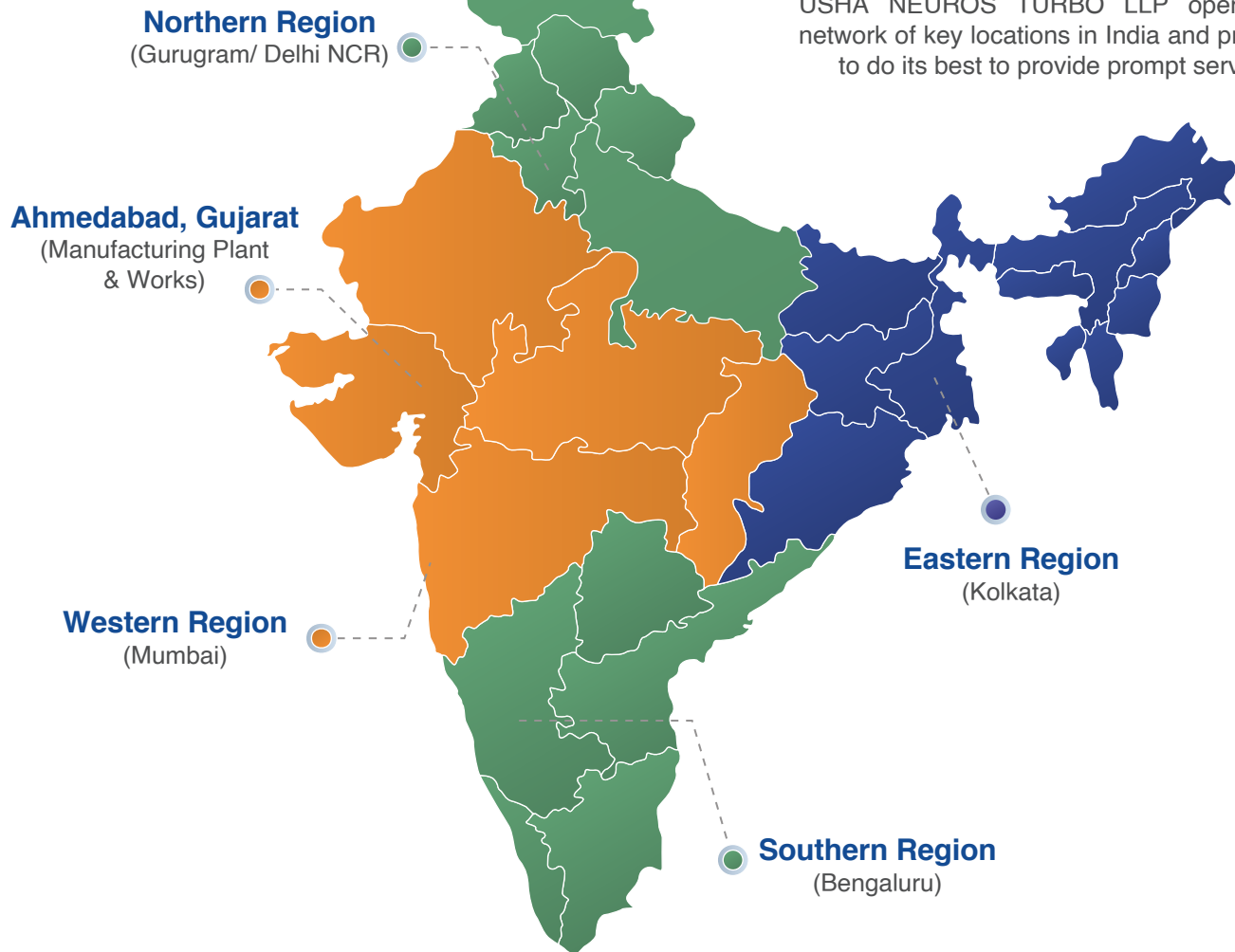
Usha Neuros Delivers Innovative, High-Value-Added Solutions To Realize Future-Oriented Customer Value.

Together With Our Customers, We Lead Technological Innovation And Shape Sustainable Growth.

With over 10,000 units delivered in 30 countries including 550 units in India, our extensive experience and proven reliability ensure the best solutions for every customer.

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.



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