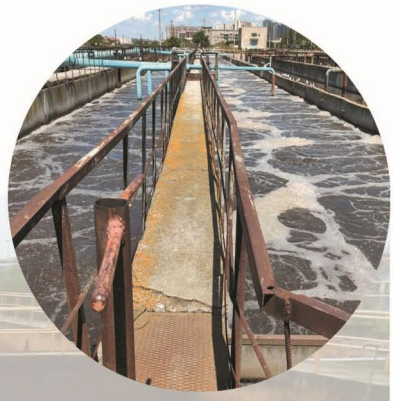
SmarTurbo | Turbo Blower















Qingdao SmarTurbo Blower Co., Ltd

www.SmarTurbo.com.cn

About SmarTurbo

SmarTurbo is a group company focused on R&D, manufacturing and sales of high speed turbo blower and turbo compressor. We have built the most comprehensive research and development system of high speed permanent-magnet synchronous motor, air bearing and magnetic bearing and aerodynamics for mass-production of turbo blower and turbo compressor.

SmarTurbo has mastered high speed motor manufacturing technology of integrated rotor magnetization and detection, magnet assembly and high speed dynamic balance. We own world-leading automation equipment for coil wiring, coil expanding and insulation wrapping. We are equipped with CNC boring and milling machining center, 5-axis machining center and CNC grinding machine.

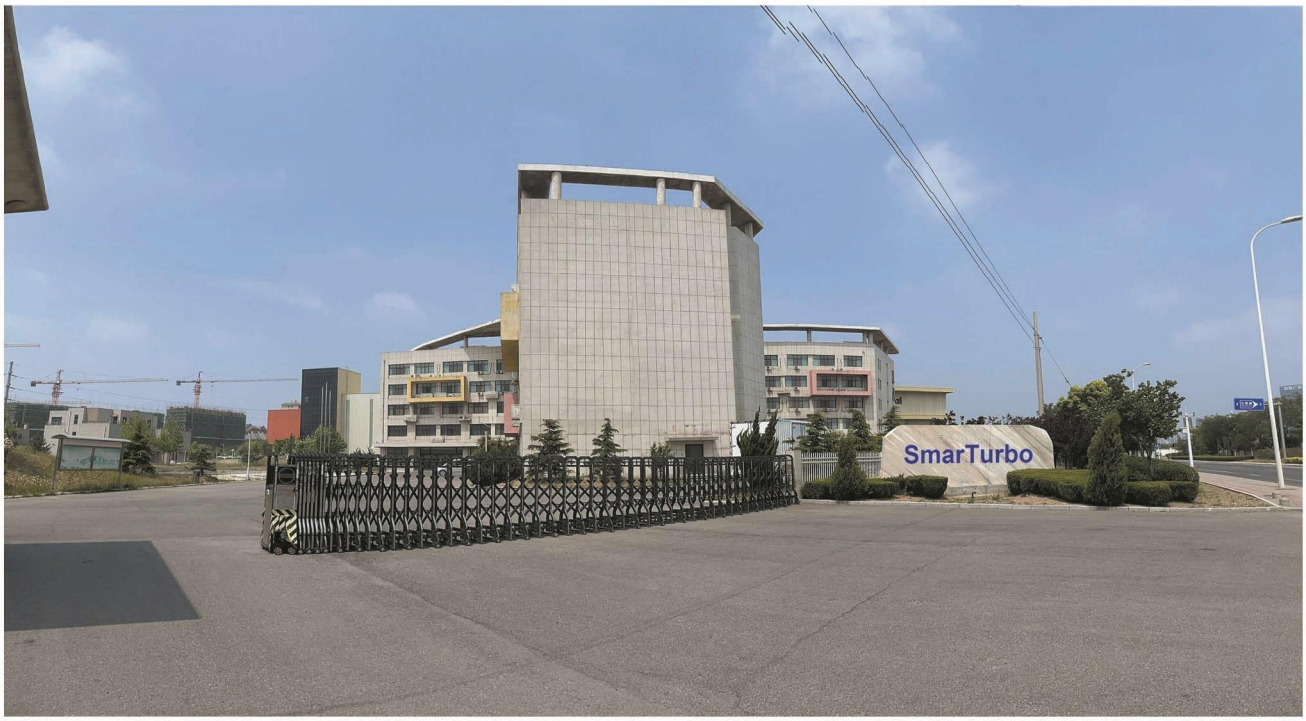
SmarTurbo has professional air bearing and magnetic bearing design and production team. Air bearing and magnetic bearing designed for complex operating conditions of high speed, extreme temperature, large loading, strong vibration and special lubricating medium is achieved in our own laboratory. Air bearing and magnetic bearing performance of load capacity, rigidity and damping coefficients can be precisely predicted by the self-developed simulation software.

SmarTurbo has followed standard product testing process for each set of oil-free high speed centrifugal turbo blower and turbo compressor, which includes aerodynamic performance test, vibration test, temperature rise test, noise test and so on.

SmarTurbo has the most comprehensive environmental laboratories, including noise laboratory, shock & vibration laboratory, high & low temperature laboratory, salt spray laboratory, etc. our laboratories meet the environmental test requirements of turbo blower and turbo compressor, which further verify the product performance and ensure manufacture quality in a multi-layer way.

Adhering to the strategic goal of “Leading Turbo Blower Development and Saving Your Electricity Bill”, SmarTurbo will keep investing in turbo blower and turbo compressor to better service our partner.

SmarTurbo Factory



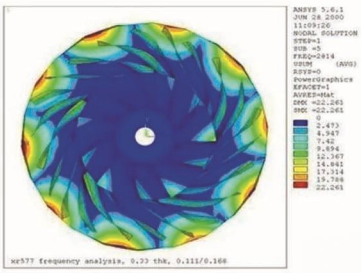
SmarTurbo R&D Center



Laboratory



material analysis



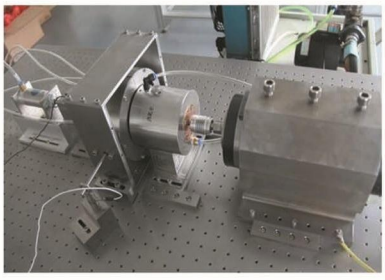
three-dimensional flow design



three-coordinates measuring

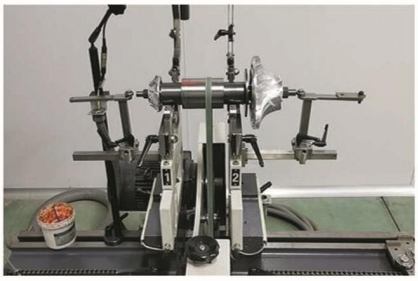


3D Contour Measuring



high temperature measuring

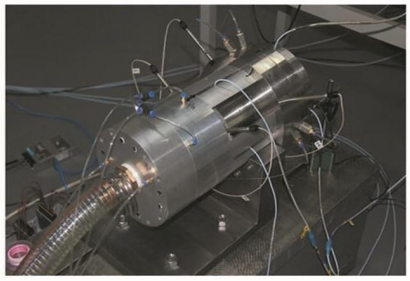
SmarTurbo Test Center



dynamic balancing bench



bearing test bench



rotor test bench



durability test bench



dynamic test bench

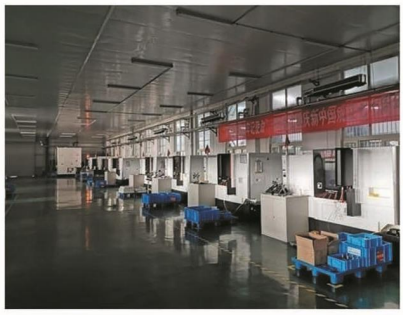


vibration test bench

SmarTurbo Production Line













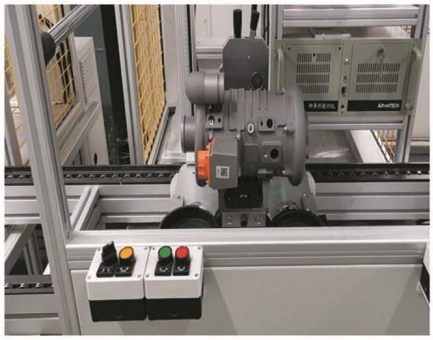
SmarTurbo Assembly



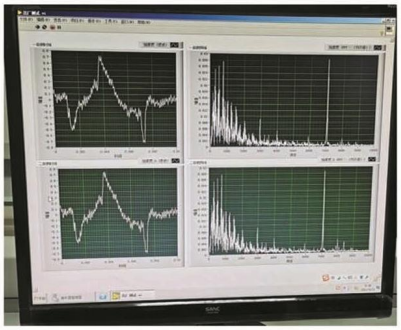





SmarTurbo Test-Run





SmarTurbo Core Technology

Turbo blower and turbo compressor is high speed centrifugal blower, which is specially designed and developed for water treatment and waste water treatment, shrimp farming and fish farming, air knife blower system and drying system, cement plant, power plant, oil and gas etc, it has been the the most efficient blower and compressor by saving 50% electricity bill more than traditional roots blower and compressor.



Turbo Blower Engine

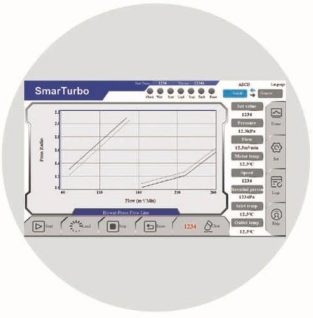


High Speed Impeller



High Speed Motor





Touch Screen



Air Bearing

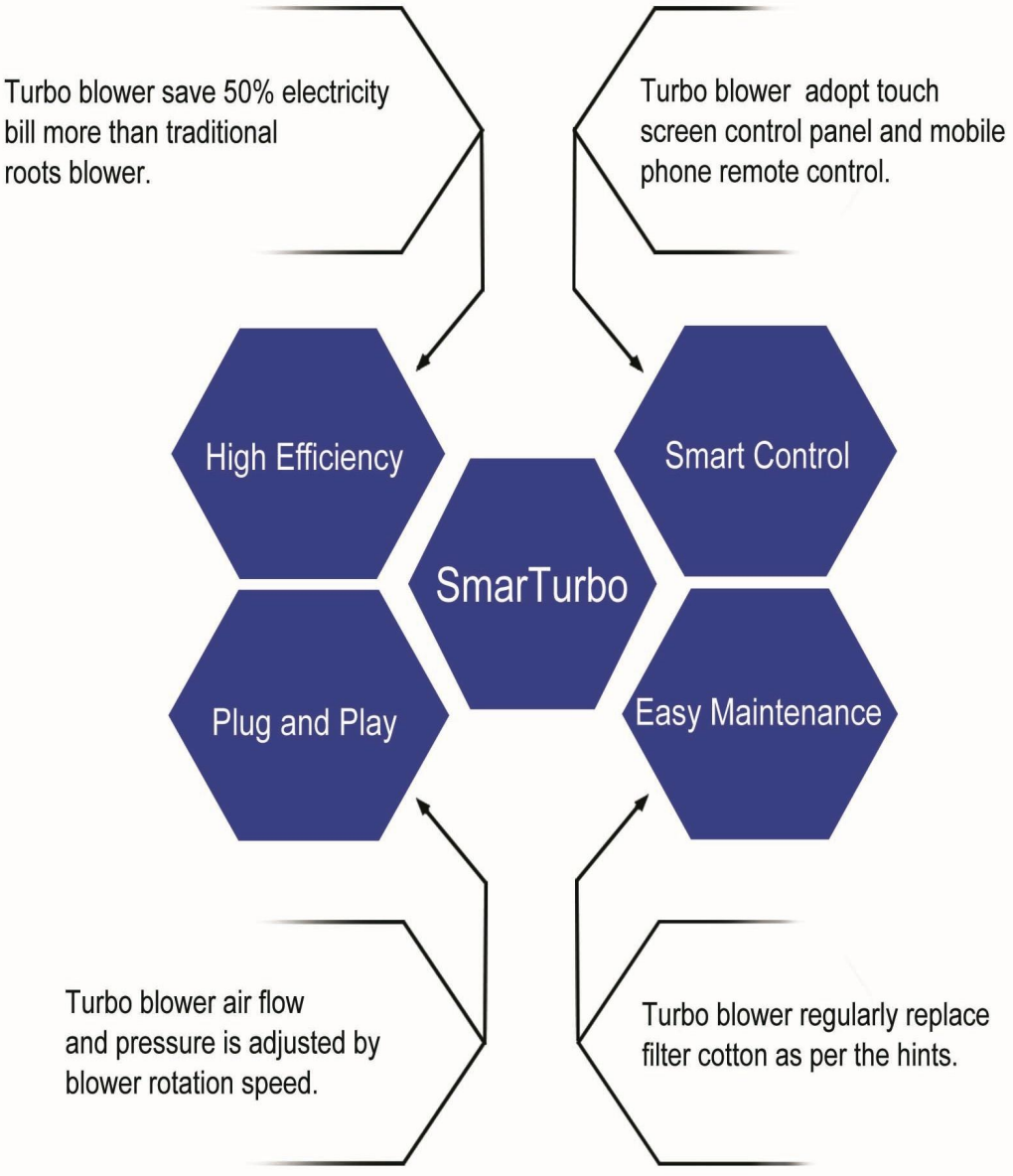


Mobile Phone Remote Control



High Speed VFD

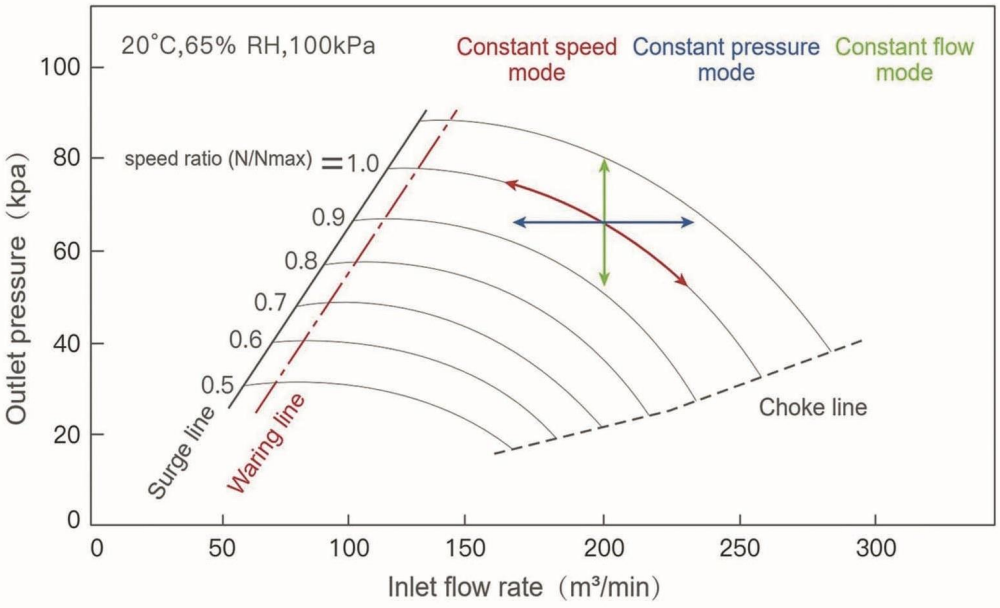
SmarTurbo Advantage



SmarTurbo Data Sheet

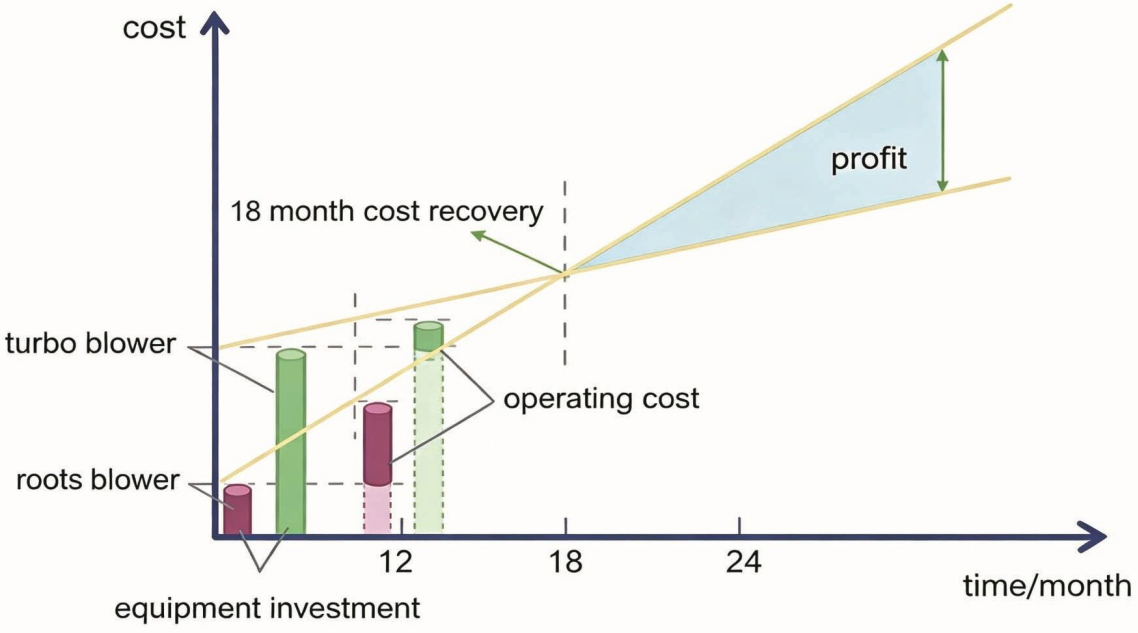
Model	3HP	5HP	7HP	10HP	15HP	20HP	25HP	30HP	40HP	50HP	60HP	75HP
Discharge Pressure kpa	Air Flow(m^3/min)，20℃，Humidity 60%, 1atm											
40	2.3	3.5	5.3	7.4	11.4	15	19	27	33	45	59	71
50			4.3	6	9.2	12	15	22	29	40	50	62
60			3.6	5	8.1	10	13	16.5	25	33	41	49
70			3	4.2	7.4	8.9	11	14	19	30	37	43
80			2.5	3.5	5.8	7.2	9	11	17	25	31	38
90									16	23	28	34
100											25	31
110											22	28
120											20	26
Shaft Power(kw)	2	3.5	5.1	7	10.2	13.9	17.2	20.4	26	35	44	53
Blower Power(kw)	2.2	3.7	5.5	7.5	11	15	18.5	22	30	40	50	60
Model	**100HP**	**125HP**	**150HP**	**175HP**	**200HP**	**225HP**	**250HP**	**300HP**	**400HP**	**500HP**	**600HP**	**800HP**
Discharge Pressure kpa	Air Flow(m^3/min)，20℃，Humidity 60%, 1atm											
40	80	92	119	141	162	188	215	270	324	430	540	648
50	69	83	108	129	150	172	192	245	298	384	490	596
60	63	77	95	109	128	147	170	210	255	340	420	510
70	55	67	85	95	120	130	149	193	226	298	386	452
80	52	61	72	87	104	120	130	176	205	260	352	410
90	44	54	64	80	94	107	120	151	186	240	302	372
100	40	50	59	74	86	100	112	141	179	224	282	358
110	39	47	57	70	79	91	101	134	161	202	268	322
120	36	44	55	65	74	83	94	125	149	188	250	298
Shaft Power(kw)	68	82	100	118	136	159	183	225	273	366	450	546
Blower Power(kw)	75	90	110	130	150	175	200	250	300	400	500	600

SmarTurbo Operation Mode



Return on Investment

Turbo blower investment cost is normally recovered within 18 month.



SmarTurbo Application Field



Sewage Treatment Industry



Leather Manufacturing Industry



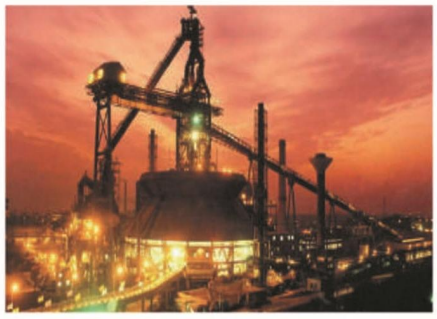
Petrochemical Industry



Pulp and Paper Industry



Thermoelectric Industry



Metallurgy Industry



Pharmaceutical Industry



Coal Chemical Industry



Textile Industry



Printing and Dyeing Industry



Food Industry



Cement Industry

SmarTurbo Site Application

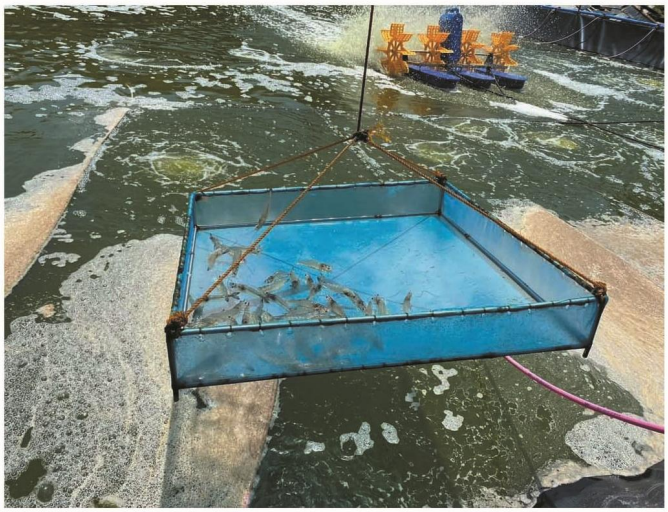












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