

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.

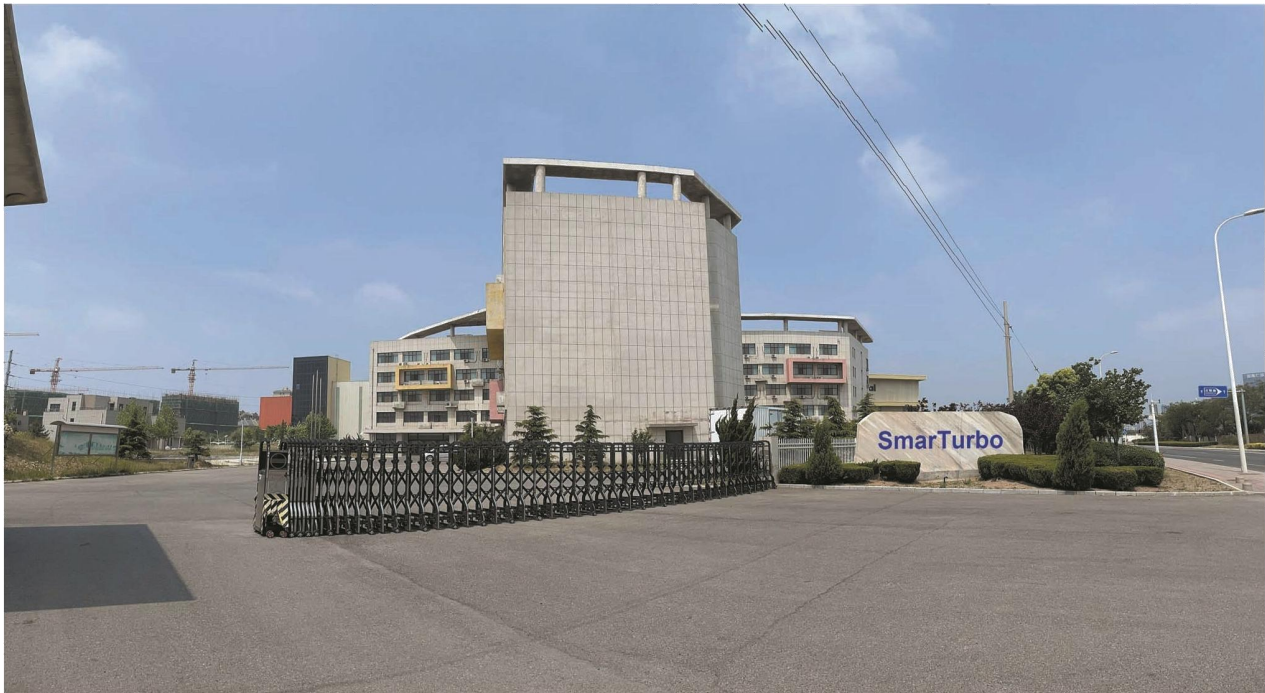
SmarTurbo has professional air bearing and magnetic bearing design and production team. Air bearing and magnetic bearing designed for complex operating conditions of high speed, extreme temperature, large loading, strong vibration and special lubricating medium is achieved in our own laboratory. Air 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



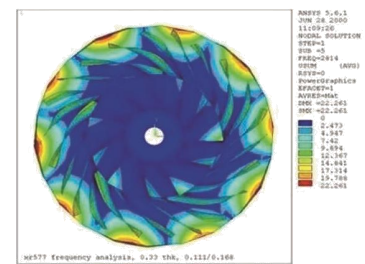
➔ SmarTurbo R&D Center



Laboratory



material analysis



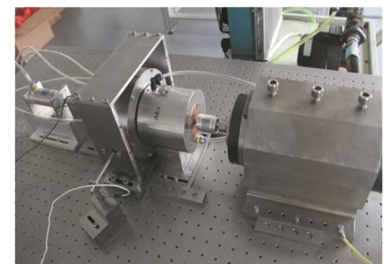
three-dimensional flow design



three-coordinates measuring



3D Contour Measuring



high temperature measuring

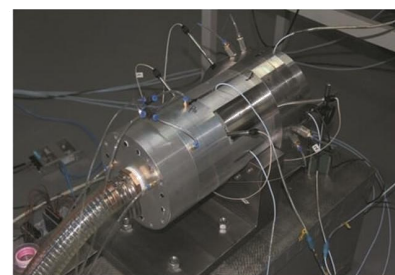
➔ SmarTurbo Test Center



dynamic balancing bench



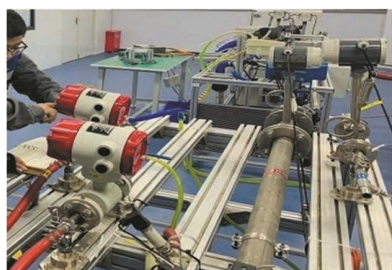
bearing test bench



rotor test bench



durability test bench

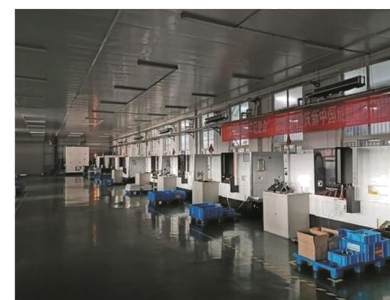


dynamic test bench



vibration test bench

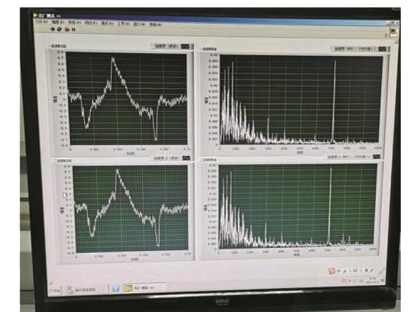
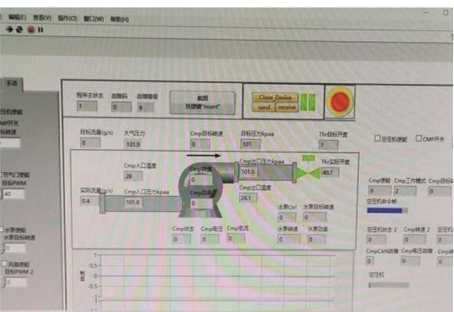
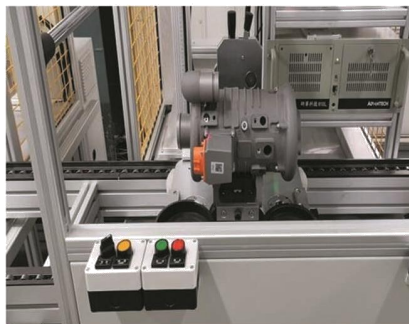
➔ SmarTurbo Production Line



➔ 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.



High Speed Impeller



Turbo Blower Engine



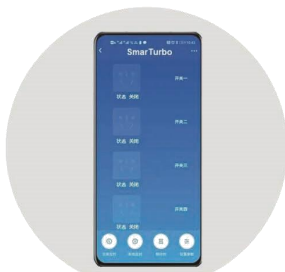
High Speed Motor



Touch Screen Control Panel



Air Bearing



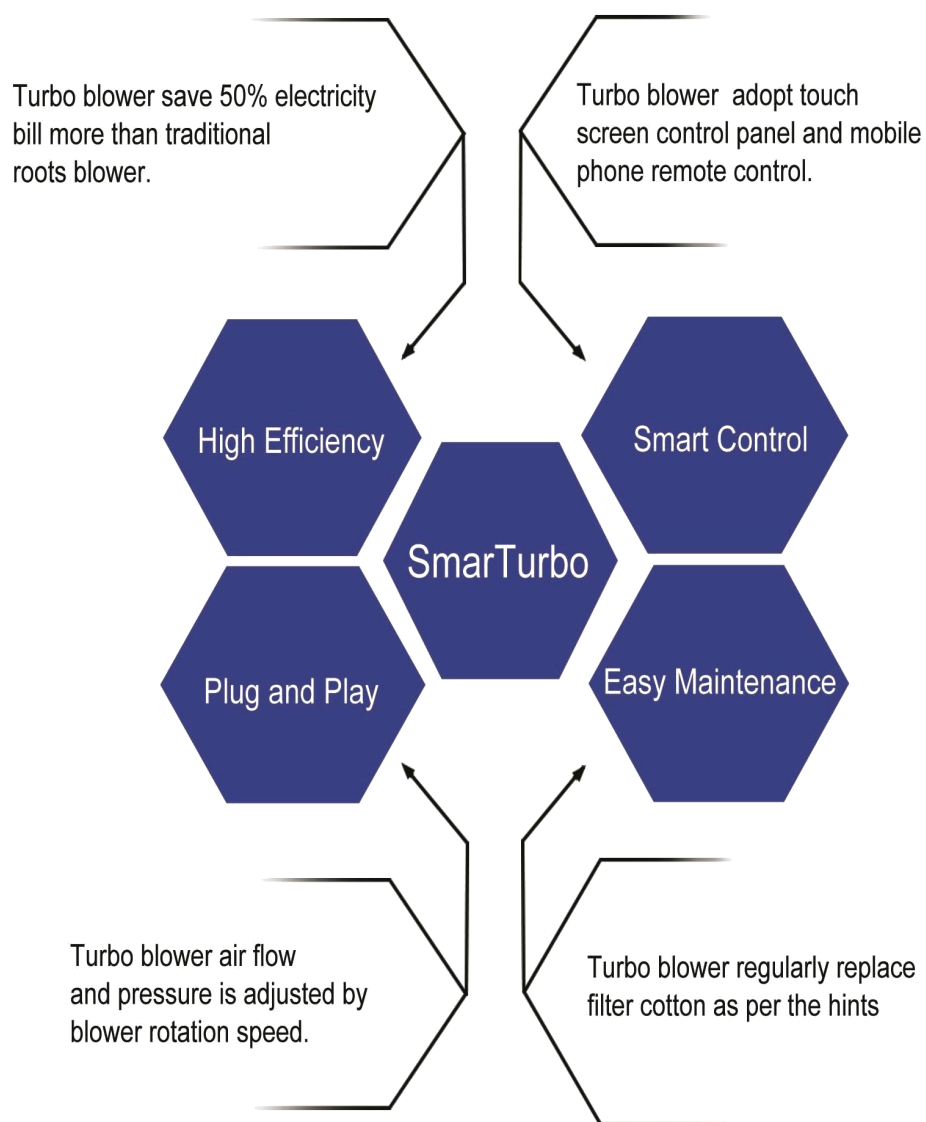
Mobile Phone Remote Control



High Speed VFD



SmarTurbo Advantage



➔ SmarTurbo Turbo Blower

Model	3HP	5.5HP	7HP	10HP	15HP	20HP	30HP	40HP	50HP	75HP	100HP
Discharge Pressure kpa	Air Flow(m ³ /min). 20°C. Humidity 60%, 1atm										
30	/	/	7	10	12	18	29	43	52	88	107
40	2.5	5	6	9	11	16	27	38	47	76	95
50	/	/	5	8	10	14	24	33	40	59	77
60	/	/	4.5	7	9	12	21	28	35	53	69
70	/	/	4	6	8	9	19	25	31	46	63
80	/	/	3	5	7	8	18	22	28	41	55
90	/	/	/	/	/	/	15	19	25	37	50
100	/	/	/	/	/	/	13	17	22	34	45
110	/	/	/	/	/	/	/	/	/	29	41
120	/	/	/	/	/	/	/	/	/	/	38
Shaft Power(kw)	2.2	4	5	7.5	11	15	23	30	38	58	75
Blower Power(kw)	3	5.5	6.5	9	12.5	17.5	28	37	44	68	83
Model	125HP	150HP	175HP	200HP	250HP	300HP	350HP	400HP	500HP	600HP	800HP
Discharge Pressure kpa	Air Flow(m ³ /min). 20°C. Humidity 60%, 1atm										
30	142	173	196	222	261	288	334	371	/	/	/
40	120	150	172	190	228	256	296	335	430	540	747
50	95	115	129	156	196	225	270	311	384	490	622
60	87	105	110	140	170	210	246	280	334	420	552
70	78	92	106	120	155	181	208	235	298	378	477
80	70	85	98	110	136	160	190	220	260	336	429
90	62	70	79	94	122	138	163	186	240	302	380
100	56	65	75	88	110	126	150	174	224	282	357
110	50	59	70	82	101	120	140	161	202	268	330
120	45	53	65	75	90	116	131	148	188	250	309
Shaft Power(kw)	94	114	130	150	185	225	262	300	375	450	557
Blower Power(kw)	102	124	142	175	208	244	295	320	400	500	600



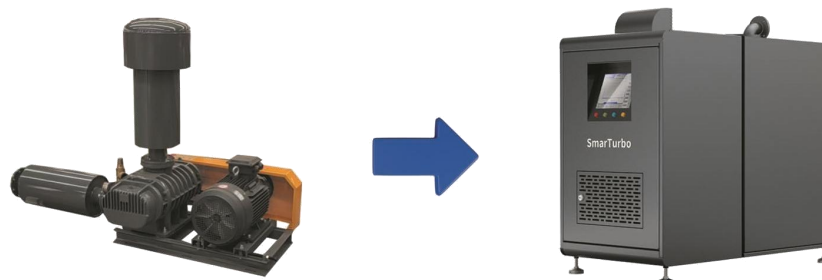
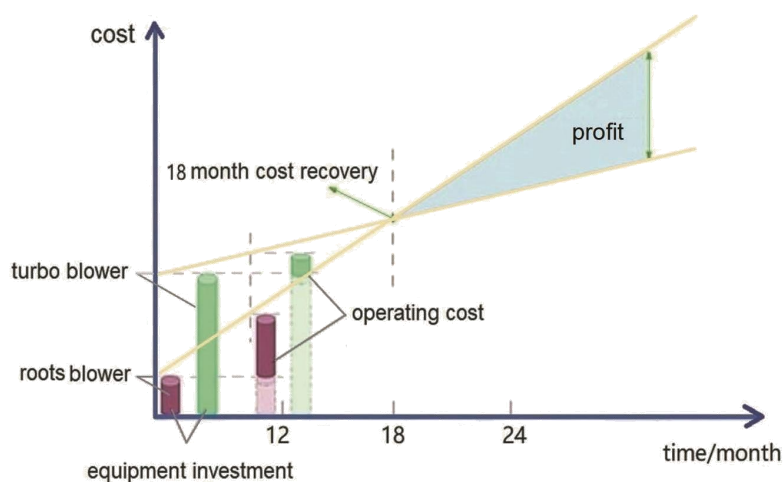
SmarTurbo Turbo Compressor

Model	100HP	125HP	150HP	200HP	250HP	300HP	400HP
Discharge Pressure kpa	Air Flow(m ³ /min). 20℃. Humidity 60%, 1atm						
150	32	48	60	69	81	121	/
200	25	/	37	65	71	75	100
300	/	/	/	/	/	105	/
350	20	/	/	37	/	/	/
400	/	/	/	36	/	55	/
500	/	/	/	/	/	46	58



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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