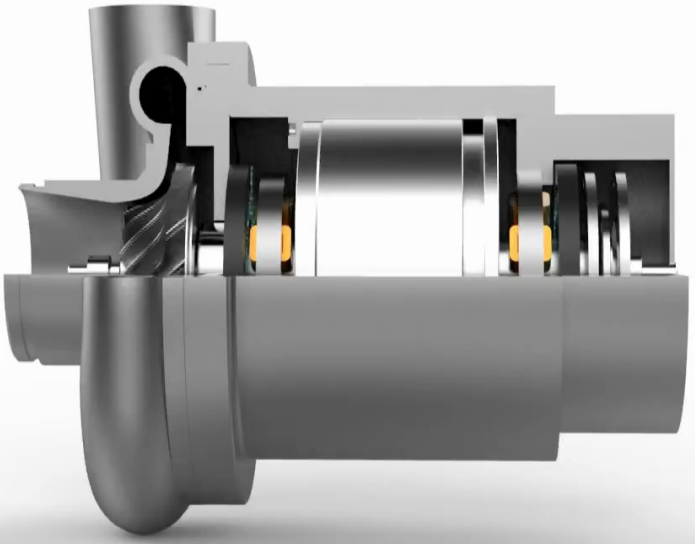
Presentation of the core part of Maglev turbo blower

天瑞重工磁悬浮鼓风机



บริษัท สยาม อินดัสเทรียล แมชชีนเนอรี่ จำกัด
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Five core technologies ,18 patents applied and 9 patents authorized

1:The centrifugal impeller of high strength aluminium alloy processed by 5-axis precision machine tools is designed by three-dimensional flow method, which maximizes the efficiency of centrifugal impeller and has high service life.

2:Permanent magnet synchronous motor:Adopt compact stator and filling type permanent magnet rotor structure. It has the characteristics of high running speed, high efficiency and long life.

3:Position senser:Using controllable electromagnetic force, the blower shaft is suspended without contact and wear. With no mechanical wear, low noise, no lubrication and other characteristics.

4:Frequency converter to adjust the frequency of high speed permanent magnet motor to realize the control of air volume and wind pressure. All of these can be monitored by integrated hmi.

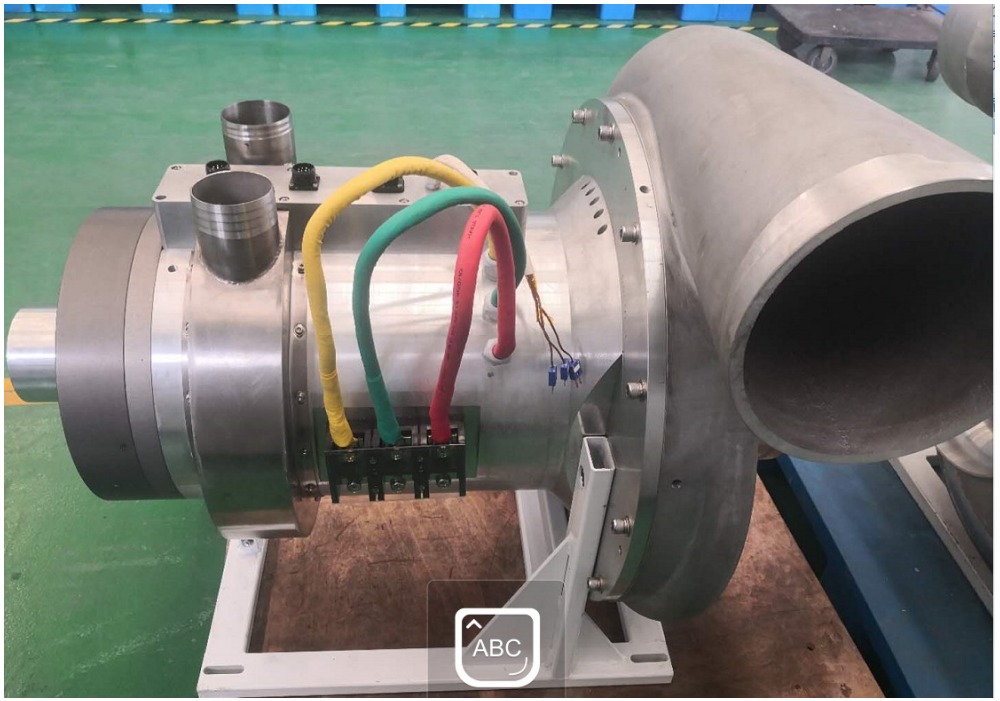
5:Controller The electronic components, such as pc DSP board and power amplifier, have been developed into independent circuit board, which is suitable for the economy and safety of centrifugal machinery.

MAGLEV FUTURE BLOWER TECHNOLOGY

The core part of the blower

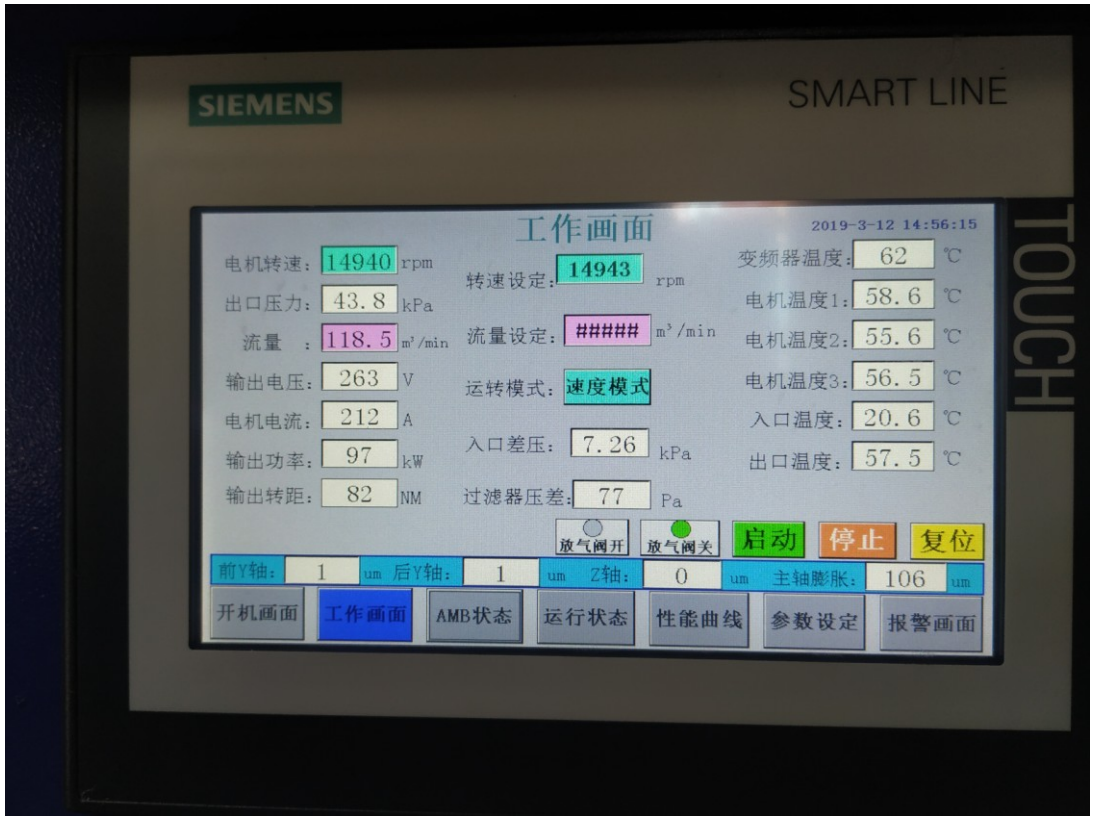
1:The most advanced horizontal structure in the world

2:The permanent magnetic synchronous motor, we use special magnets to assure no demagnetization and long service time



MAGLEV FUTURE BLOWER TECHNOLOGY

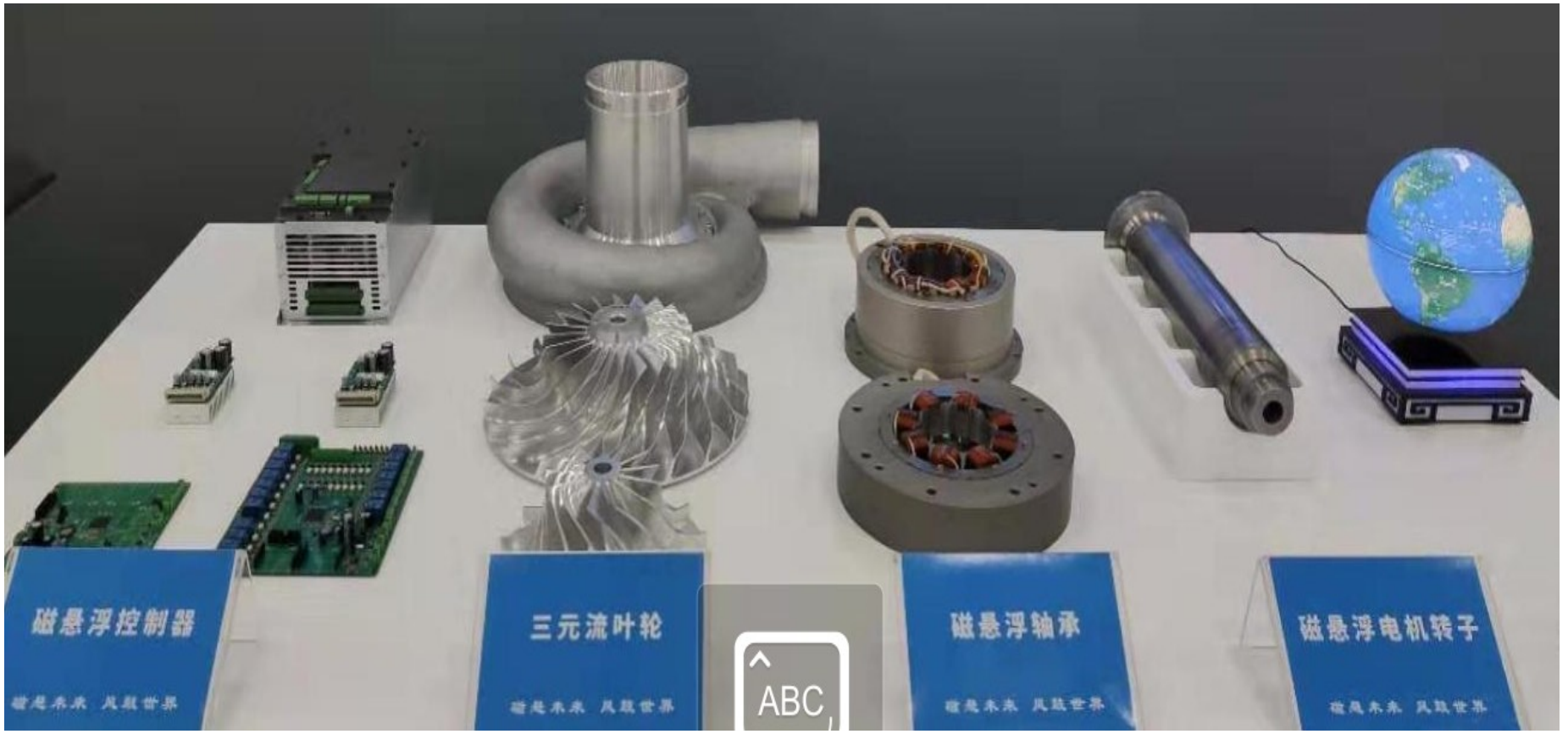
1:Siemens touchable control panel and electrical parts
2:Famous brand for the electrical parts Fuji Inverter



MAGLEV FUTURE BLOWER TECHNOLOGY

1:Main arbor use special materiel for high resistance of temperature and Corrosion

2:Volute is in aviation alluminum,light in weight and good performance of heat disspation.



MAGLEV FUTURE BLOWER TECHNOLOGY

The whole machine and machines ready for package

MAGLEV FUTURE **BLOWER TECHNOLOGY**

Maglev Turbo Blower—(Chongqing some Drainage)

Energy saving rate can reach 45.2%
Sewage water treatment capacity :60000 M^3/per day

MAGLEV FUTURE BLOWER TECHNOLOGY

Maglev Turbo Blower —(SomePigment Company in shandong province)

Energy saving 45.45%,
Noise reduced from 129dB to 80dB
Sewage water treatment capacity:20000 M^3/per day

MAGLEV FUTURE BLOWER TECHNOLOGY

Maglev Turbo Blower —(Shandong some Environmental Protection Technology Co., Ltd.)

Order one 200HP Maglev Turbo Blower,

Energy saving 42.2%

Noise reduced from 115dB to 83dB

Treatment capacity:40000 M^3/per day

MAGLEV FUTURE BLOWER TECHNOLOGY

Maglev Turbo Blower —(Shandong some Environment Co., Ltd.)

Energy saving 27.5%, noise below 80dB

Treatment capacity:20000 M^3/per day

MAGLEV FUTURE BLOWER TECHNOLOGY

Maglev Turbo Blower —(Some Sewage Treatment Plant)

Comprehensive use of energy saving
36.5%

Sewage water treatment capacity: 40000 M^3/ day, they installed one Maglev Turbo blower of TR15008 to replace 2 multistage centrifugal blowers in April 2019,electrcity saved more than 36% and easy to operate, no need to maintenance and the function is stable ,so they ordered another machine at the June of 2019.

MAGLEV FUTURE BLOWER TECHNOLOGY

Weifang Some New Material Company

Significant energy saving effect:
Energy saving rate 35.3%
Noise below 83dB

Treatment capacity:20000
M^3/per day

MAGLEV FUTURE BLOWER TECHNOLOGY

A Cement Plant in shandong province

Maglev Turbo Blower is used for pulverized coal transportation in kiln tail. Power saving 40%

Before roots blower 185 KW

After Mag suspension blower 90KW

MAGLEV FUTURE BLOWER TECHNOLOGY

Item	煤粉输送改造项目 Pulverized coal transportation and reconstruction project	
	before	after
Type	Roots Blower	Maglev Turbo Blower
Power	185 kw	90 kw
Quantity	4	4

MAGLEV FUTURE BLOWER TECHNOLOGY

The data sheet comparison between roots blower and Mag suspension blower

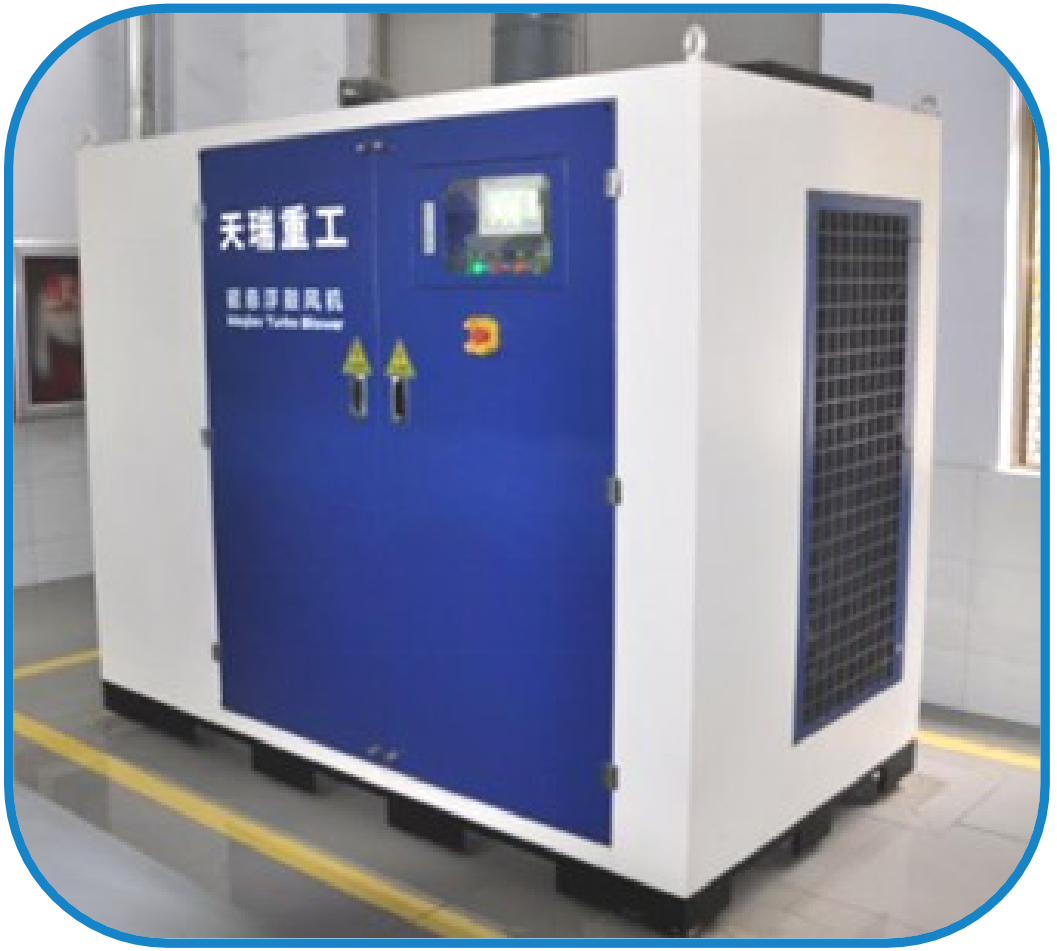
Position	Application	Power of roots blower	Power of Mag suspension blower	Electricity saving/hour	Energy Saving rate
Second stage	Coal transportation at Kiln head	82kW/h (Measured in site)	45kW/h	37 kW	45%
First stage	Coal transportation at decomposing furnace	131kW/h (Measured in site)	75kw/h	56 kW	43%

MAGLEV FUTURE BLOWER TECHNOLOGY

Some Cement Plant

风机噪声：
115dB降到83dB左右。
节电：43.2%。

Blower Noise:
115dB dropped to about
83dB.
Power Saving: 43.2% .



MAGLEV FUTURE BLOWER TECHNOLOGY

Cement Plant

Maglev Turbo Blower is used for pulverized coal transportation in kiln tail. Power saving 27%

名 称 item	煤粉输送改造项目 Pulverized coal transportation and reconstruction project	
	before	after
机型type	Roots Blower	Maglev Turbo Blower
功率power	200kw	150kw
数量quantity	1	1

MAGLEV FUTURE BLOWER TECHNOLOGY

Cement Plant in Weifang

150KW Maglev Turbo Blower to replace original 132KW/110KW tailing coal blower. 24% power saving

MAGLEV FUTURE BLOWER TECHNOLOGY

Cement plant in shandong

75KW Maglev Turbo Blower to replace the original 85KW tailing coal blower.

36% power saving

MAGLEV FUTURE BLOWER TECHNOLOGY

(some paper group)

power saving 37.7% ,
noise reduced from 130dB to about 70dB.

MAGLEV FUTURE BLOWER TECHNOLOGY

(Some Paper Mill)

The annual power saving 1.06 million KWH, power saving 30%.

MAGLEV FUTURE BLOWER TECHNOLOGY

Maglev Turbo Blower—Shandong some Paper Group Co., Ltd.

37.7% energy saving
Noise reduced from 130dB to around 70dB

MAGLEV FUTURE BLOWER TECHNOLOGY