

SUNON®



BLDC HVLS Fan

*All products are RoHS compliant.



NATURAL,
Comfort experience

SUNON® HVLS FAN

SUNON, with 40 years of experience in BLDC motor technology and manufacturing capability. In 2017, SUNON launched the HVLS fans, which adopts brushless DC (BLDC) energy-efficient motors. Aerodynamics was used to optimize the airflow, which enables SUNON HVLS fans to generate large airflow with low turning speeds, achieving optimal performance that HVLS industrial fans couldn't reach.

SUNON Powerful HVLS Fan series got a light and stylish design and its airfoil combines aircraft-grade aluminum with a patented winglet design, reducing the air resistance and noise, reaching optimal performance of high volume at low speed. We committed to providing you with superior HVLS fans and offer you the best energy-saving, cooling, moisture-proof, and ventilation solutions. The entire series of SUNON HVLS fans is unparalleled, and unlike anything else you've experienced.



Pre-Sale Service

- Site Survey
- Airflow Simulation
- Optimized Consulting
- Cost Saving Analysis



Professional Skills

- Simulation & Validation
- Aerodynamic Optimization
- Automated Production
- Product Traceability



Installation Work

- Cost Saving Analysis
- Safety Regulations
- Efficient Installation



After-Sale Service

- Intensive Distribution

Modern HVLS Fan

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Low Speed



High Volume



Energy Saving



Silence Design



Safety



Light Weight

Powerful HVLS Fan

series1 Page 7-8

series3 Page 9-10

series10 Page 11-12



Energy
Saving 90%
*compare with AC HVLS fan



Airflow
Increase 20%



A/C Cost
Saving 30%



Safety First



Air smoothly



Silence Design

Modern HVLS Fan

The Simplicity of Breeze

With the Earth's axis tilted at 23.5° , it created the beautiful sceneries of the 4 seasons. With the 31° curvilinear design of the SUNON Modern HVLS Fan airfoil, it creates not only a massive airflow, but also an ultra silent operation. The 6 speed rotation ensured you a silent natural breeze, the unique airfoil gently running through the air revitalizing your space with a rustic breeze.



Stylish and Elegant

Lozenge pattern surface with elegant and large curvilinear airfoil, decorative and pure white design, show more of your taste to shape your lifestyle.



Massive Airflow

The ultra-high torque motor can generate massive air at low speed by the curvilinear airfoil, creating a relaxing and peaceful atmosphere in your house.



Ultra Slow Rotation

Slow rotate speed will be visually leisure and less oppressive, let the breeze gently run through your space.



BLDC Motor

High-Efficiency BLDC motor saves up to 50% and more energy than BLDC motor. 6-Speed control adjust optimized temperature.

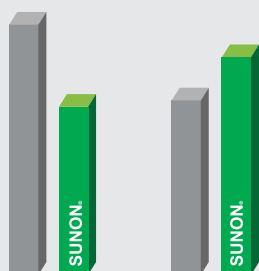
► Facility Type

exhibition hall, bookstore, cafe, library, museum, office, meeting room, hotel lobby, hospital, fitness center, home



Speed
-40%

Airflow
+27%



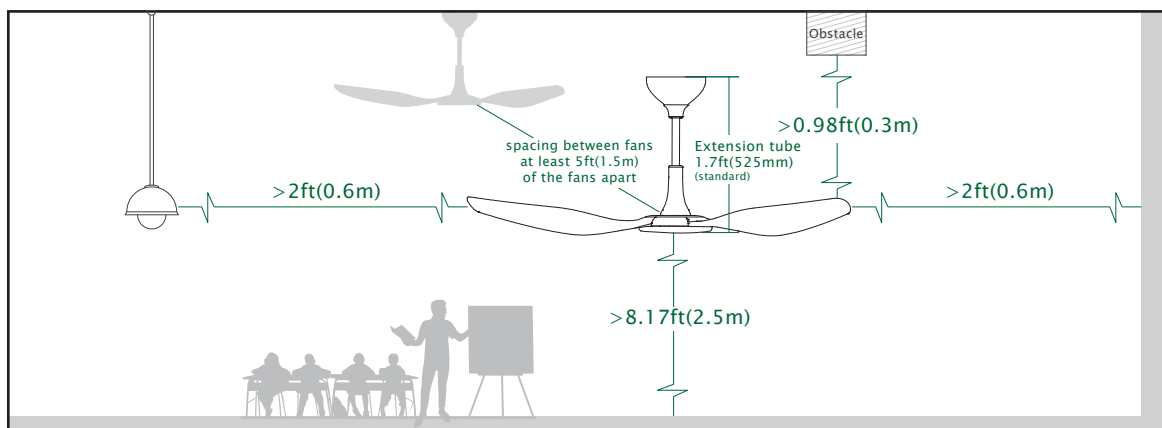
■ Other ■ SUNON Modern
* Compare with other BLDC motor fan in market

Color / Material	White / ABS
Motor	BLDC motor
Diameter	60 ft (1.5m)
Weight	6.3 kg
Speed	50 / 120 RPM
Max Airflow	10,950 CFM 18,615 m ³ /h

Power Consumption	5 / 50 W
Power source	110 VAC
Noise	<35 dB(A)
Fan Control	6 Speed (FWD./ REV.)
Environment	Indoor
Control	RF Controller

* The above specifications are test from SUNON Lab and the data will be affected by different environmental conditions.
* Specifications are subject to change without notice. Final spec. please visit SUNON website at www.sunon.com.

► The Placement & Clearance between Fan and Obstructions



series 1 Powerful HVLS Fan

Leisure Life in Urban Area

SUNON Powerful HVLS series 1 has a lighter and stylish look. The airfoil combines aircraft-grade aluminum with a patented Airfoil design, it reduces the wind resistance and wind noise.



BLDC Motor

More than 90% of motor efficiency, gearless direct drive motor, no need for regular lubrication maintenance.



Energy Saving

The anaerodynamic winglet design can generate massive airflow with very low power consumption, and it runs 12-18 hours at 1 KW.



Silence Design

Patented airfoil design, it reduces the wind noise and provides smooth airflow.



Ultra thin and light

The sleek, ultra-thin motor design and engaging visuals extend the user's experience by 20 kg lightweight look.

► Specification

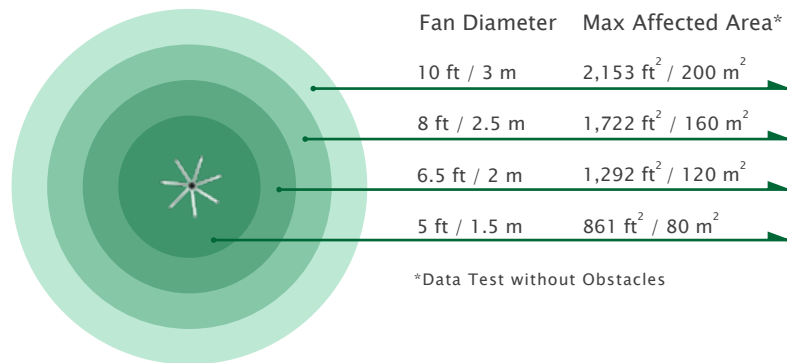
Diameter	5 ft (1.5 m)	6.5 ft (2 m)	8 ft (2.5 m)	10 ft (3 m)
Weight	14 kg	16 kg	18 kg	20 kg
Speed	180 RPM	130 RPM	95 RPM	70 RPM
Power Consumption	54 W	72 W	84 W	84 W
Max Airflow	17,500 CFM 29,711 m ³ /h	21,000 CFM 35,654 m ³ /h	24,500 CFM 41,596 m ³ /h	28,000 CFM 47,538 m ³ /h
Noise	<35 dB(A)			
Power source	220-240 VAC			
Environment	Indoor			

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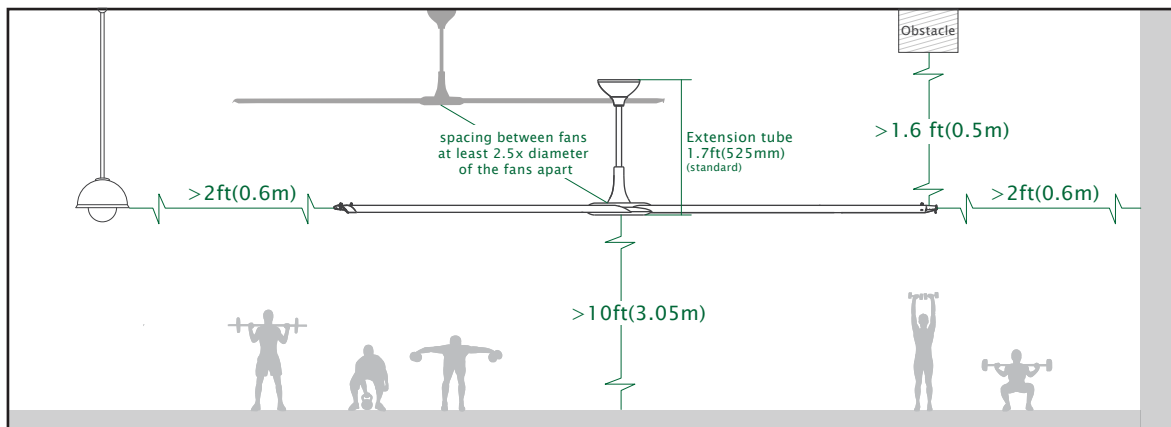
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► Air Volume



► The Placement & Clearance between Fan and Obstructions



► Facility Type

exhibition hall, bookstore, cafe, library, museum, office, meeting room, hotel lobby, hospital, fitness center, home, factory, warehousing

series 3 Powerful HVLS Fan

Strong and Gentle Breeze

Powerful HVLS Fan series 3 is suitable for cooling a large space, it reduces body temperature efficiently and heat dissipation evenly. The high-efficiency BLDC direct-drive motor shows remarkable results and does not require regular oil change for long-term use. This is your top choice for long-term investment in commercial space.



BLDC Motor

More than 90% of, motor efficiency, gearless direct drive motor, no need for regular lubrication maintenance.



Energy Saving

Series 3 is achieve carbon neutrality by saving more than 43,212 trees. (Compare with 3M HVLS fans)



Silence Design

Patented airfoil design, it reduces the wind noise and provides smooth airflow.



Safety First

Sunon applied one-pieced shaping hanging base to prevent those potential risks about cracked, rusty, or loosen parts.

► Specification

Diameter	8 ft (2.5m)	10 ft (3m)	12 ft (3.6m)	14 ft (4.2m)
Weight*	27.39 kg	29.77 kg	32.57 kg	35.44 kg
Speed	150 RPM	100 RPM	70 RPM	56 RPM
Power Consumption	335 W	232 W	176 W	171 W
Max Airflow	48,087 CFM 81,642 m ³ /h	58,154 CFM 98,734 m ³ /h	71,224 CFM 120,924 m ³ /h	77,555 CFM 131,673 m ³ /h
Noise	<40 dB(A)			
Power source	200-240 VAC			
Environment	Indoor			

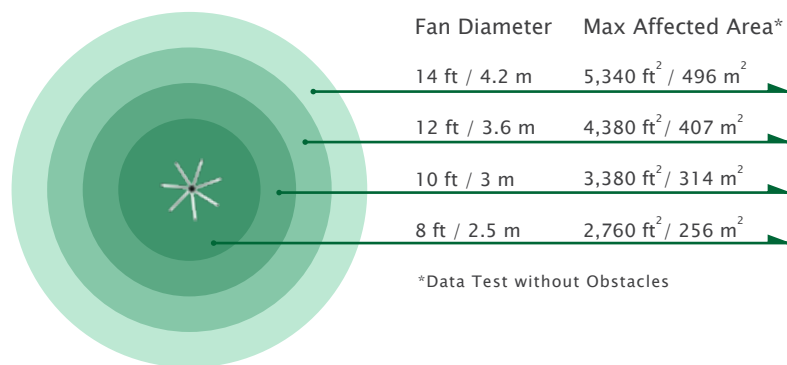
*Weight: fan unit only, the mount and the extension tube are not included.

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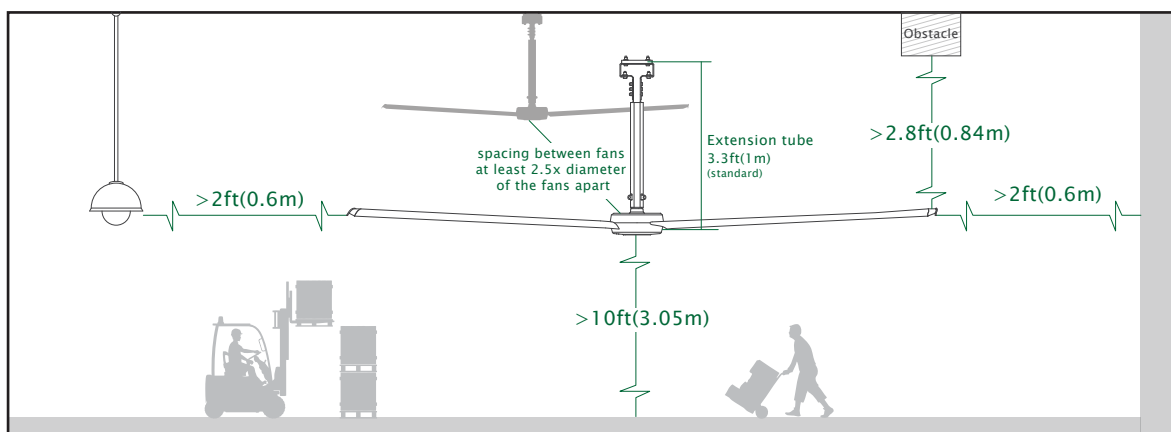
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► Air Volume



► The Placement & Clearance between Fan and Obstructions



► Facility Type

exhibition hall, bookstore, cafe, library, museum, office, meeting room, hotel lobby, hospital, fitness center, home, factory, warehousing

series 10 Powerful HVLS Fan

Storm But Uniform airflow

Different from most large industrial ceiling fans on the market that rely on rapid turning speeds to generate unsteady and uneven airflows, Powerful HVLS Fan series 10 large industrial ceiling fans wield outstanding motor control to generate even and gentle winds. In addition, the unique expanded air flow design of the series 10 allows for even better internal and external air circulation in large areas.



BLDC Motor

More than 90% of motor efficiency, gearless direct drive motor, no need for regular lubrication maintenance.



Energy Saving

Series 10 is achieve carbon neutrality by saving more than 92,747 trees.
(Compare with 7.3M HVLS fans)



Air Smoothly

By implementing aerodynamic diversion designs, the generated airflow is gentle and does not include flow-breaks. Even large spaces can be cooled down through comfortable wind.



Safety First

Sunon applied one-pieced shaping hanging base to prevent those potential risks about cracked, rusty, or loosen parts.

► Specification

Diameter	13 ft (4m)	16 ft (5m)	18 ft (5.5m)	20 ft (6.1m)	24 ft (7.3m)
Weight*	90.01 kg	99.36 kg	104.03 kg	110.16 kg	120.86 kg
Speed	115 RPM	90 RPM	65 RPM	60 RPM	50 RPM
Power Consumption	825 W	1,100 W	585 W	765 W	1,050 W
Max Airflow	166,536 CFM 282,744 m ³ /h	224,824 CFM 381,704 m ³ /h	192,441 CFM 326,725 m ³ /h	234,859 CFM 398,742 m ³ /h	338,127 CFM 574,069 m ³ /h
Noise	<50 dB(A)	<50 dB(A)	<46 dB(A)	<46 dB(A)	<46 dB(A)
Power source	220-240 VAC				
Environment*	Indoor / Outdoor				

*Weight – fan unit only, the controller, the mount and the extension tube are not included.

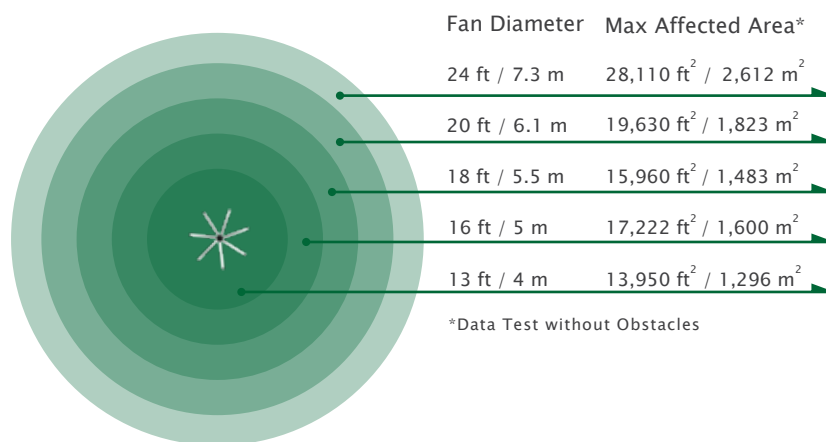
*Environment –This product is not suitable for salt air environments.

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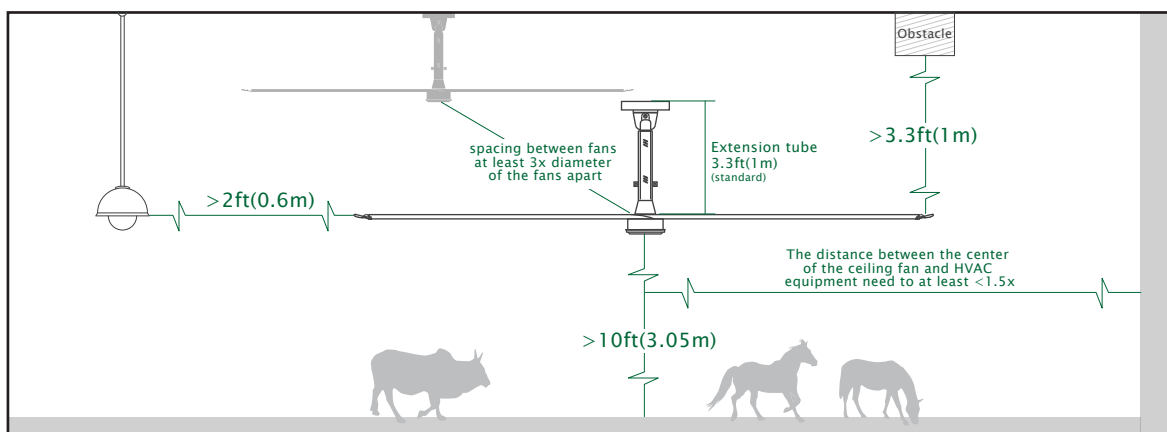
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► Air Volume



► The Placement & Clearance between Fan and Obstructions



► Facility Type

factory, ranch, greenhouse, hangar, gymnasium, warehouse, hypermarket, supermarket, exhibition hall

100% R&D and Manufacturing by SUNON

With 40 years of experience in BLDC motor technology and manufacturing capability, SUNON's HVLS fan solution mastered the core technology of motor and the optimal characteristics of the airfoil. The product is 100% under SUNON controlled from design to manufacture, eliminating the problems of buying motors, airfoil, drive and parts separately from the market and then reassemble. Achieving a performance no other HVLS fans achieved.

Successful story



Modern HVLS Fan – Mumbai, India

Located in the tropics, Mumbai is hot and humid. Using Modern HVLS Fan can dissipate the heat and humidity, as well as generate indoor circulation, providing a natural and comfortable cooling.



► More application fields

Powerful HVLS Fan series 1 – Tainan, Taiwan

This 24-hour running factory needs precise control of their cost and capacity. The series 1 delivers the lowest cost but provides the maximum ventilation, optimizing the space between people and equipment in this working environment, and maintaining high productivity (1 kWh can be used continuously for 12 hours).



Powerful HVLS Fan series 3 – Kaohsiung, Taiwan

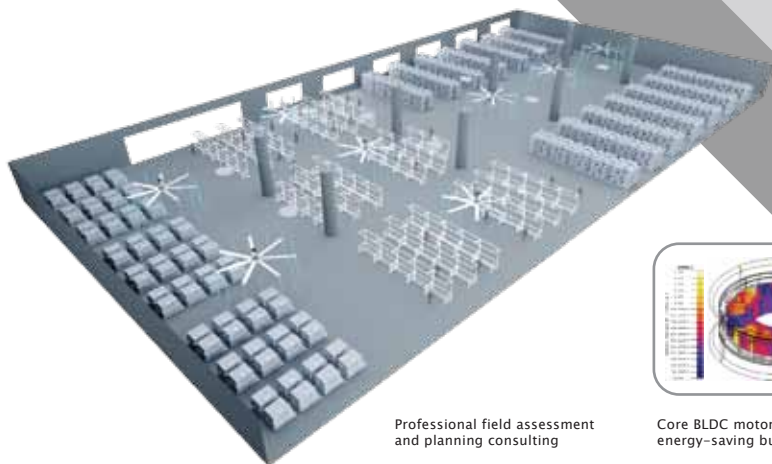
Taiwan lies in the subtropics. A hot environment reduces milk production and milk quality. The highly-diffused airflow of series 3 ceiling fans accelerate air circulation both inside and outside the farmhouse, keeping the cows' enclosure dry and reducing the chances of cows getting sick. The quiet BLDC motor lowers the overall temperature and is quiet enough so as to not disturb the cows, thereby improving milk production and milk quality.



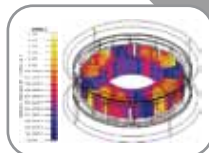
Powerful HVLS Fan series 1 – Okinawa, Japan

This island resort has created a brand-new restaurant with comfortable air conditioning. To make every guest feel cozy and relaxed during their mealtime. The high-ceilinged roof is equipped with the series 1. Not only balance the room temperature and reach the better ventilation, it also makes every guest to dine in with the island breeze.





Professional field assessment and planning consulting



Core BLDC motor technology energy-saving but powerful



Optimized aerodynamic massive air flow

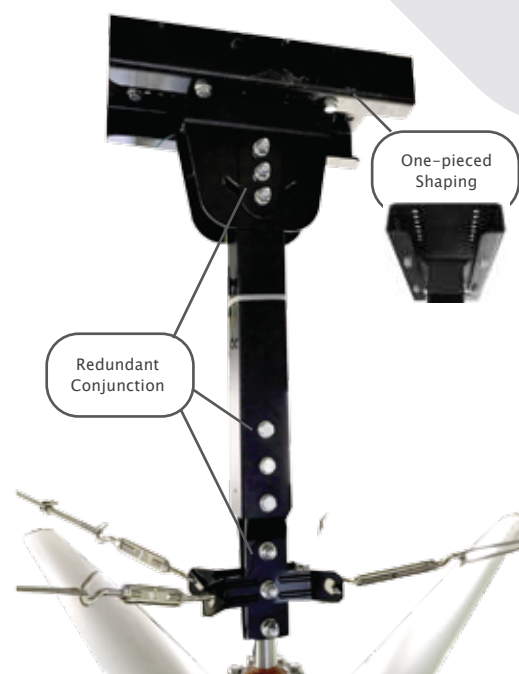


Suspension Structural Analysis Safety comes First!

Safety First

- **One-pieced Shaping Yoke**
Auto-stop when detect motor heat, voltage or loading over limitations.
- **Redundant Conjunction**
The mout tube adopts three sets of upper and lower screws to ensure a firm shockproof, low sloshing, and crosswind resistance of the whole structure.
- **Double Suspensions**
Main safety cable wrapping around the I-beam and four-directed guy wire to strengthen stability and construction safety of the ceiling fan.
- **Fatigue testing**
The airfoil bolt kit has passed million-times of fatigue tests- SUNON Powerful HVLS Fan utilizes reinforced airfoil. The equipped airfoil frame passed millions of high-strength back and forth bending fatigue tests to avoid the risk of airfoil frame breaking or fan airfoil falling due to long-term use.

(*Only for powerful HVLS Fan series 3 , series10)



Powerful HVLS Fan series 10 -Changhua, Taiwan

It is very difficult for a dairy cattle in a temperate climate adapt to the tropical environment, however, series 10 can change the situation by offering a stable and soft wind to create a better indoor and outdoor circulation, so that dairy cattle can feel comfortable and enhance its milk quantity.

6 Process Steps for Quality Assurance

- Motor stator assembly check
- Motor rotor assembly check
- Motor shaft assembly check
- Motor drive compatibility check
- Airfoil balancing check
- Finished goods package with QR Code record



Automated production toboost productivity and yield.



Data management with our QR Code system in each process step to ensure quality and traceability for every single product.

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