

# HVLS FAN SERIES

HIGH VOLUME LOW SPEED FAN



**ARUTH VENTILATION SYSTEMS**

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Contact No: +918866544445 +919978778767



# QUALITY IN EVERY INCH OF **ARUTH HVLS FAN**

Every one of our HVLS fans is engineered to deliver the smoothest, most efficient, and most precise airflow possible. Our fanblades are made from aviation grade magnalium, that makes them stronger and lighter. Using only world class, industrial grade components and the highest quality parts to ensure the most efficient, and reliable fan. We offer you the best-value proposition in the market from an investment perspective.

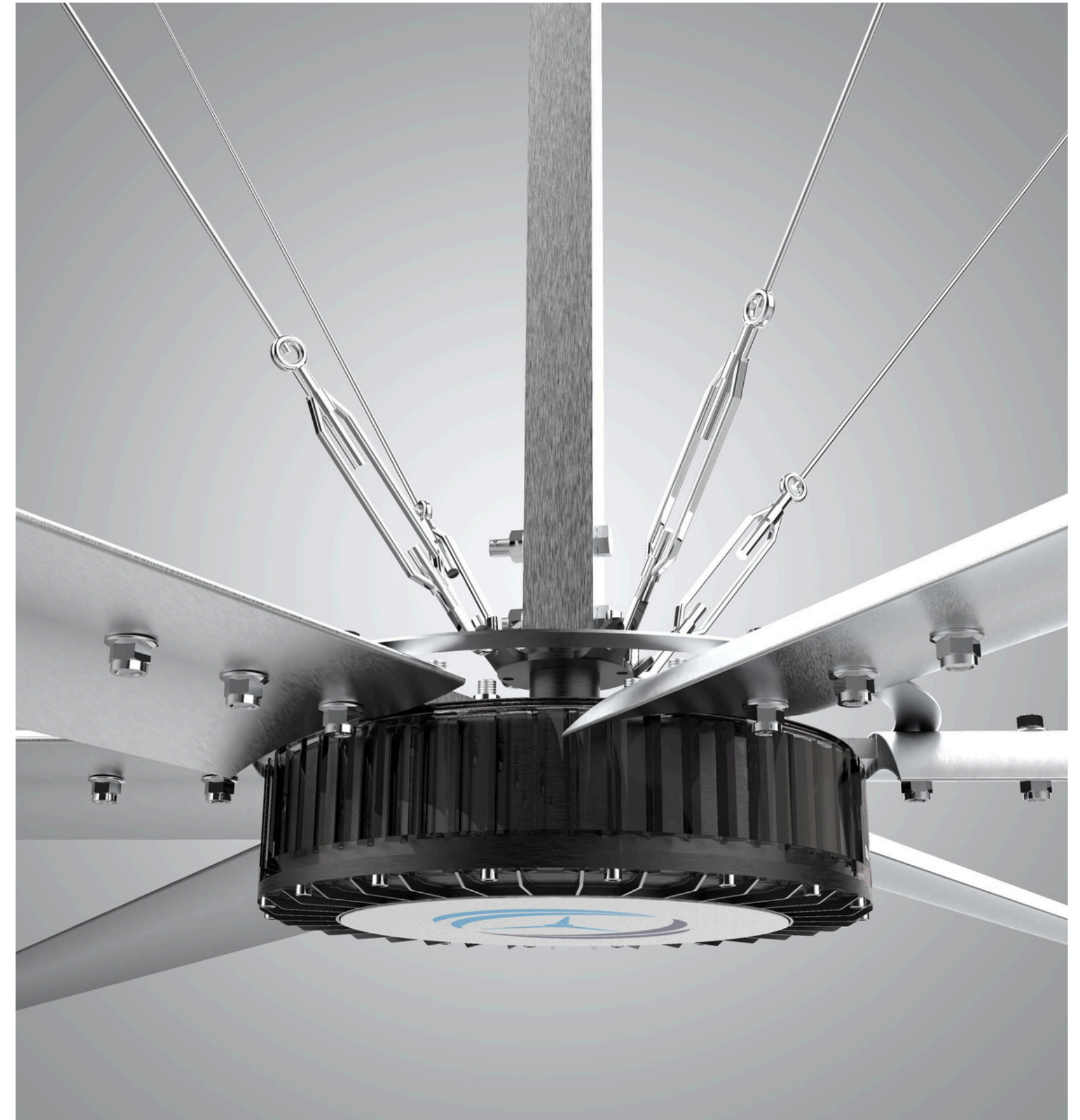
**Blade Design & Material:** Made from durable, corrosion-resistant materials (like aluminum or galvanized steel) with aerodynamic blades for optimal airflow

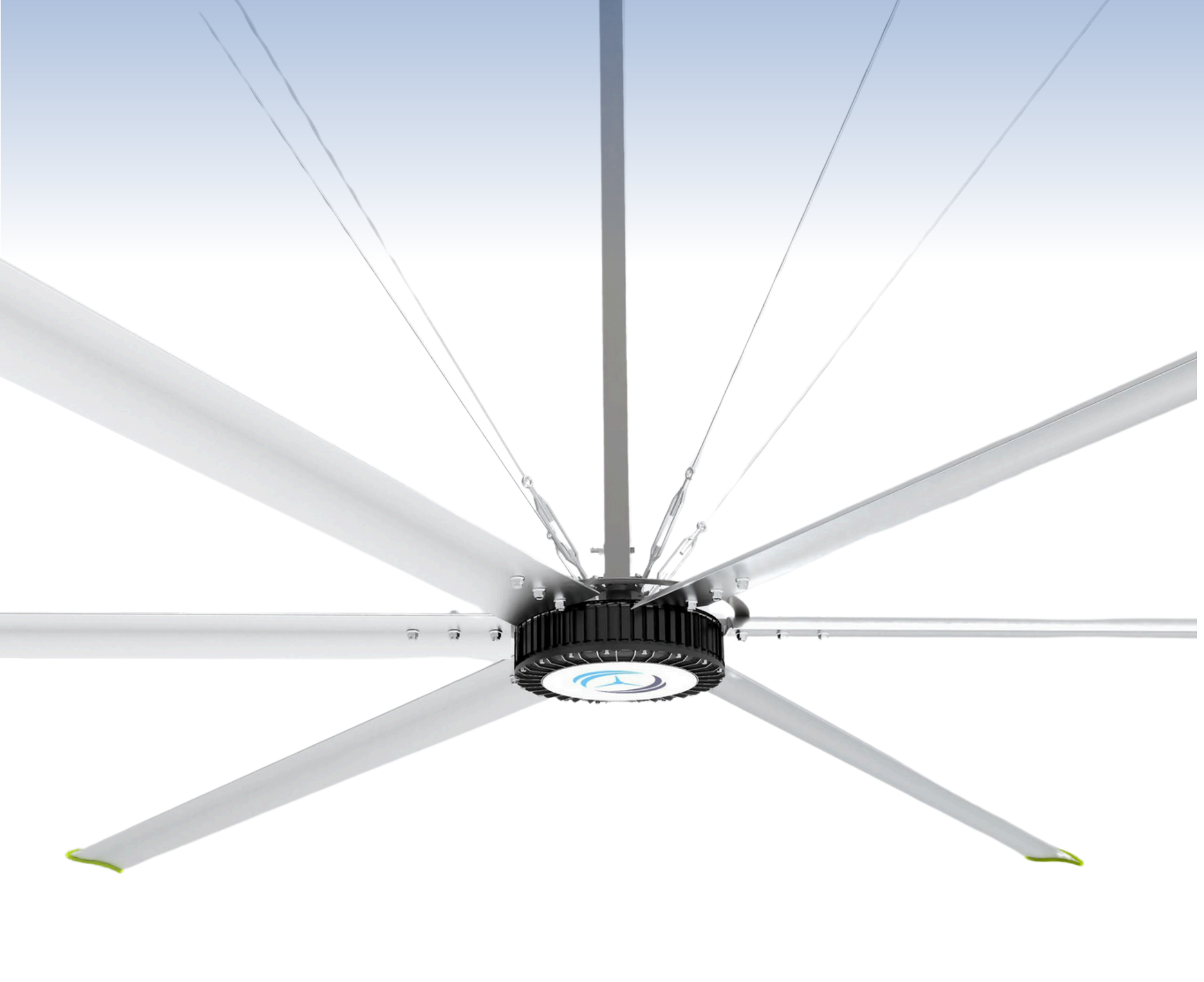
**Motor Efficiency:** High-efficiency motors, often brushless or with PMSM technology.

**Structural Integrity:** Robust frame construction, minimal vibration, and noise, ensuring safety and stability

**Design & Aesthetics:** Modern, sleek, and customizable to fit various environments

Overall, the ARUTH HVLS fan combines advanced design, energy efficiency, and durability for effective air circulation in large spaces.

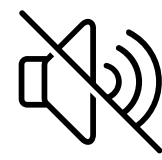




CHOOSE  
ARUTH HVLS



**SUPERIOR VENTILATION**  
Delivers upto more than 900,000 CFM of air



**SILENT OPERATION**  
Engineered to deliver silent and efficient nondisruptive operation



**IMPROVETHERMAL COMFORT**  
Elevated airflow reduces perceived temperature by as much as 4°cby maximizing our body's natural means of cooling evaporative cooling.



**COST SAVING**  
Aruth HVLS primarily uses minimal energy, it also helps in lowering the cost of air-conditioning with lesser energy used.



**EASE OF MIND**  
We provide 360° services from getting the right fan with the right budget for your space to professional installation and dedicated after-sales services

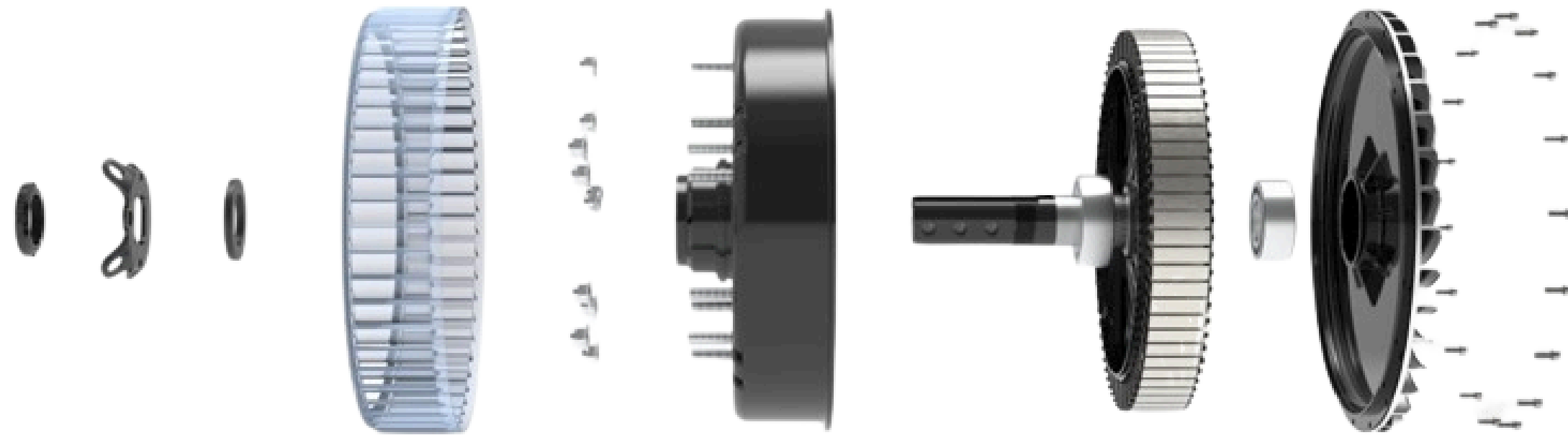


**SAFETY ASSURANCE**  
We don't just get it installed, we get it installed safely. Our team is highly trained with years of experience in this field.



## AVS-IE5 SERIES

Introducing the AVS-IE5 Series! This fan is the pinnacle of performance, quality and overall value. Powered by the latest technology in advance gearless drive, the NeoDrive PMSM motor wield an unmatched airflow performance. You get more than a fan; you get one of the most versatile cooling solutions available in the market.

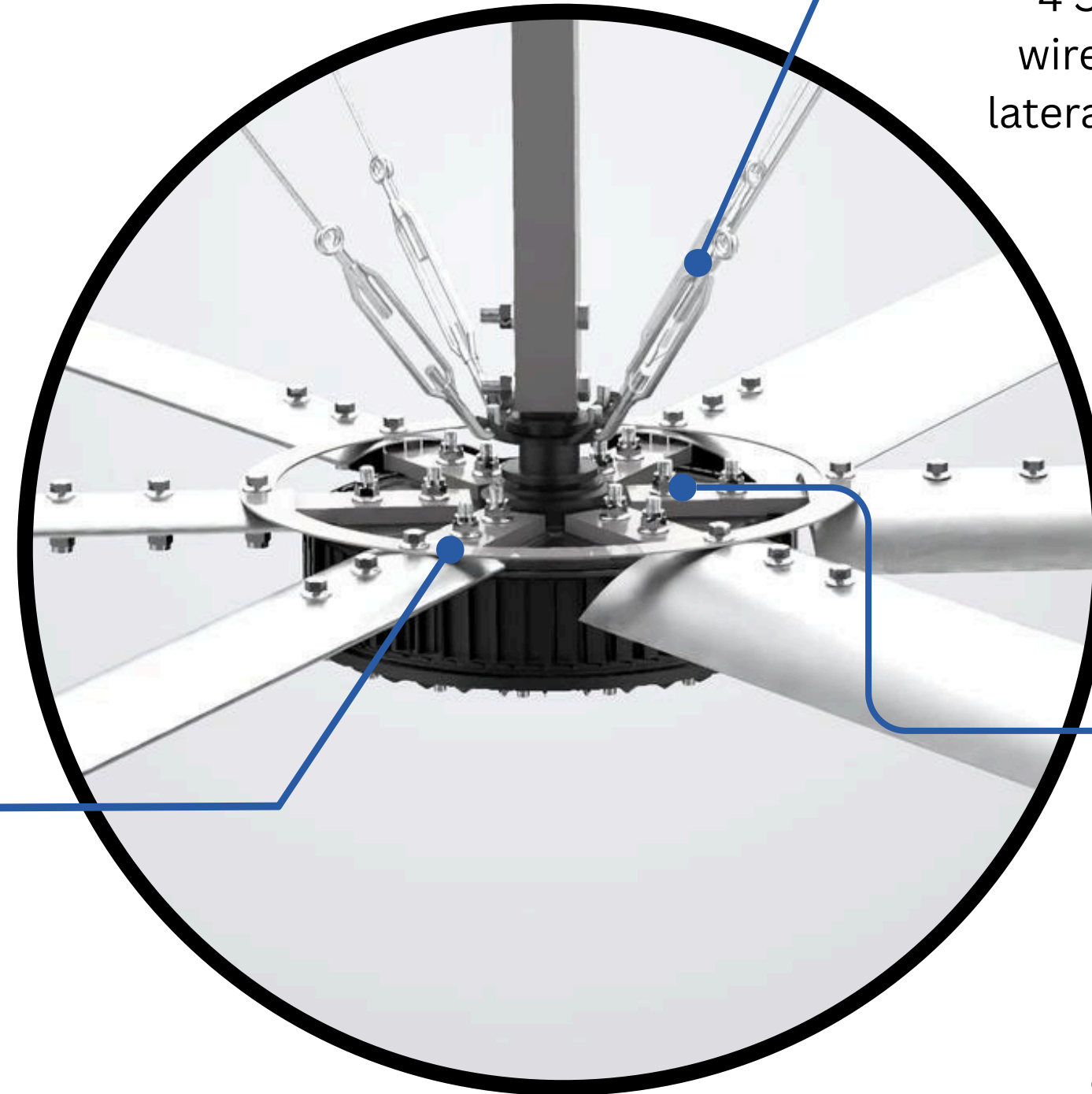


## **"Precision Engineered, Powerfully Efficient – The Future of PMSM Technology!"**

Aruth Ventilation System, we integrate IE5 Permanent Magnet Synchronous Motors (PMSM) with IP68 protection into our HVLS fans to deliver unmatched energy efficiency, durability, and performance. IE5 PMSM motors are the highest efficiency class, reducing power consumption while offering superior torque and precise speed control. With IP68 protection, these motors are completely dustproof and waterproof, ensuring reliable operation in harsh industrial environments, including humid, wet, and high-dust areas. This advanced motor technology enhances the lifespan of our HVLS fans, minimizes maintenance, and provides consistent, high-performance airflow, making our ventilation solutions the best choice for industrial and commercial applications.

# ARUTH

## HVLS SAFETY FEATURE



### STEEL GUY WIRE

4 Stabilizing guy wires for minimal lateral movements and vibration

### HYBRID HUB STRUT (ENHANCED PLUGIN)

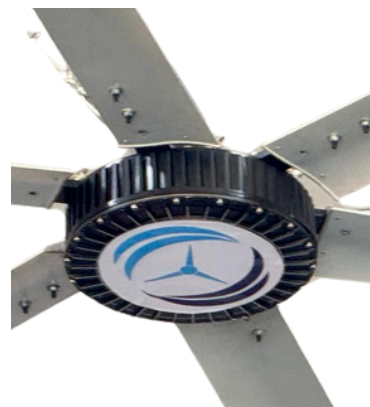
The enhanced plugin is the connector between the fan blade and the main drive unit. It is designed to hold 2 times more cross sectional area than most competitions

### BLADE RETAINER

Durable galvanized mild steel retainer link forms a unison binding strength to secure and lock all the blades to the Hybrid Hub Strut.

## POWERFUL PERFORMANCE EPITOME OF DIRECT DRIVE MOTOR

The ARUTH AVS series is the most powerful HVLS ever created in our range of product. Delivering an extraordinary airflow of more than 900,000 CFM, it is the best solution for your space while offering excellent torque, efficiency and durability. Powered by our patented direct-drive Neo Drive PMSM motor with innovation in mind, this motor needs no maintenance and absolutely quiet



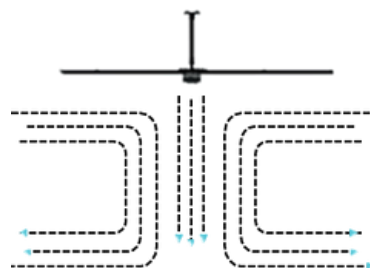
## MAINTENANCE FREE LONG LASTING AND HIGH DURABILITY

Different from gearbox driven fans, our PMSM motor requires no traditional oil changes. No more costly maintenance and messy leakages.



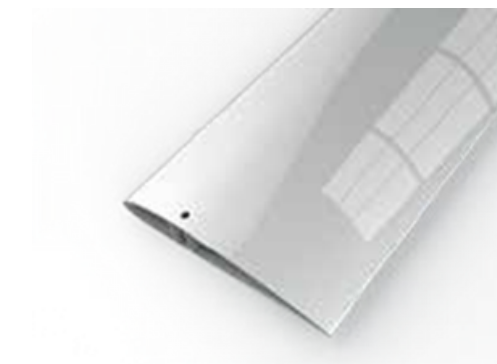
## EXCELLENT COVERAGE AIR VENTILATION SOLUTION

The large air volume produced and ventilated by our AVS Series brings unmatched cooling performance, delivering massive airflow to cool your extra-large spaces. Our gearless design makes it whisper quiet.



## AEROFOIL BLADES GENERATING HIGH AIR CIRCULATION

Our aerofoil blades are made of aviation grade magnalium (magnesium alloy) and finished in fluorocarbon coating to withstand the toughest environment. It's unique patented design structure is further strengthened with 3 vertical stiffeners within the length of each blade to avoid structural fatigue.



## AEROFOIL WINGLET BOOST AIRFLOW AND DRAG REDUCTION

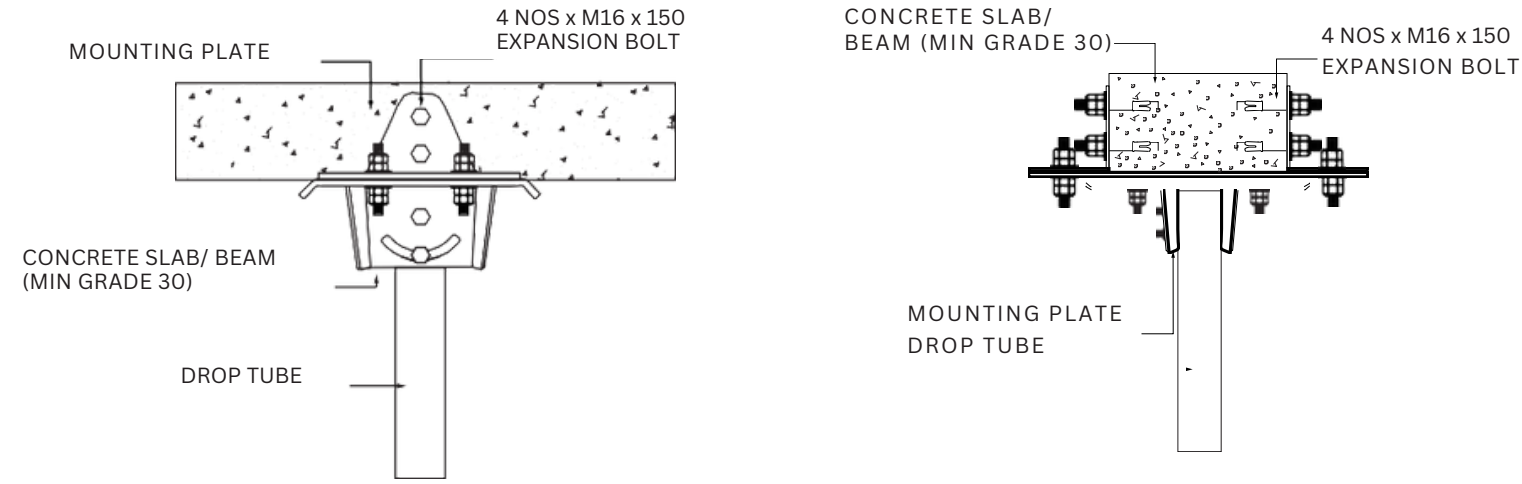
A wingtip is attached to a distal end of the aerofoils to reduce drag and improve downward lift, creating up to 40% more air than most of our competitors.



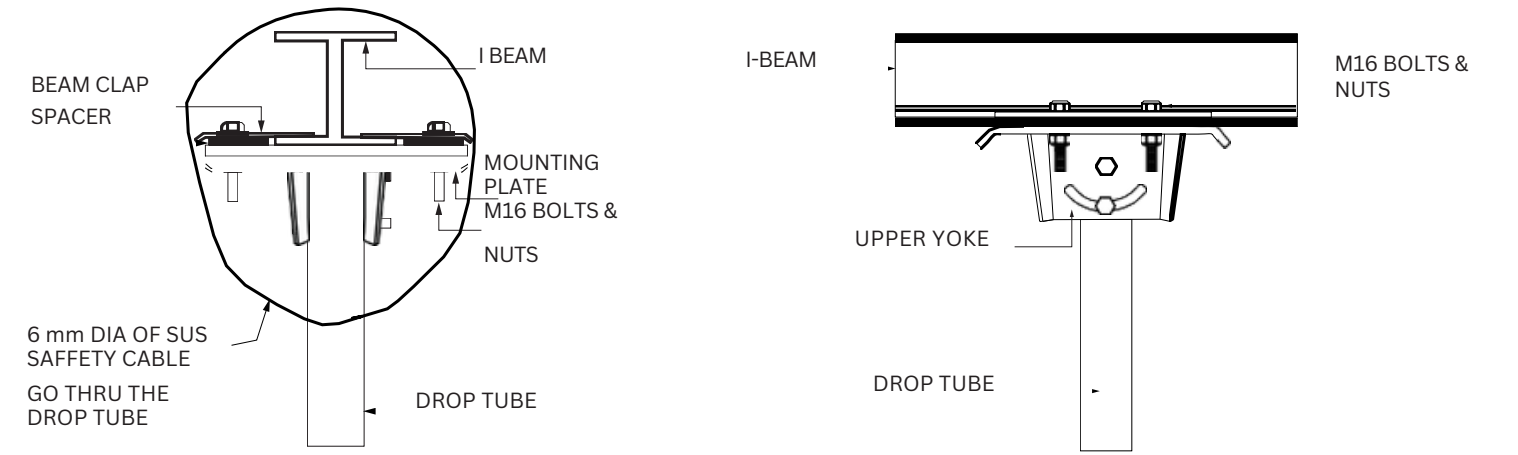
Model	AVS-G3AV/IE5	AVS-G37AV/IE5	AVS-G49AV/IE5	AVS-G55AV/IE5	AVS-G61AV/IE5	AVS-G73AV/IE5
Diameter (m)	3	3.7	4.9	5.5	6.1	7.3
Power (Kw)	0.37	0.5	0.75	0.9	1.2	1.2
Voltage (V)	230/415 V					
Frequency (Hz)	50/60					
Air volume (CMM)	4000	4500	8000	9600	12200	14200
Speed (rpm)	100	85	85	85	55	60
No of Blades(Pcs)	5	5	5	5	6	6
Noise (dB(A))	37 dBA					
Coverage Area (m <sup>3</sup> )	250	380	600	600	600	1700
Mounting Frame	I-Steel/Square Steel/Concrete					

# MOUNTING DETAILS

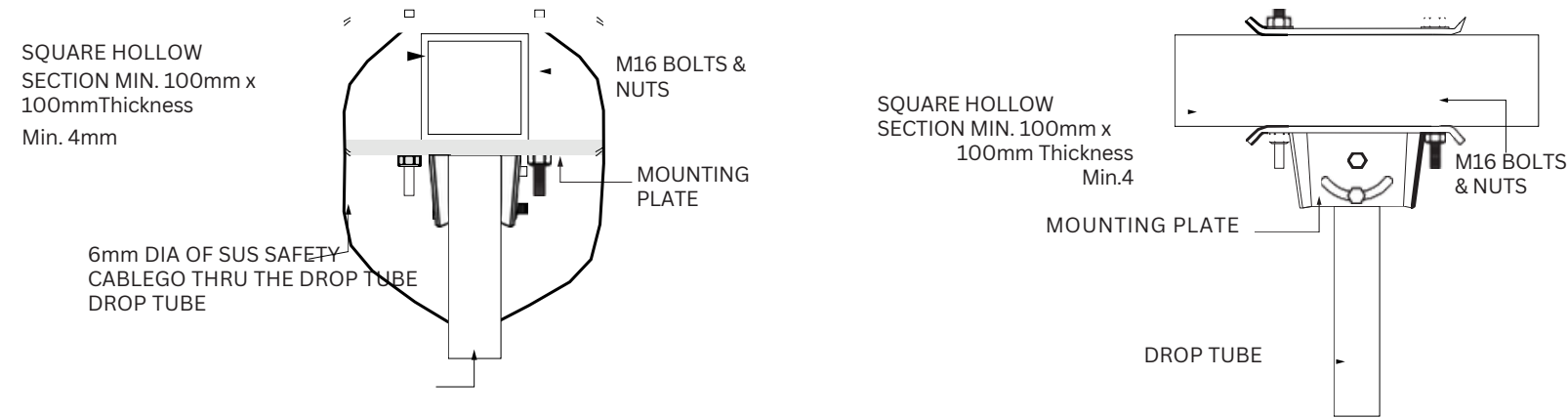
## Mounting Details to Concrete Beam



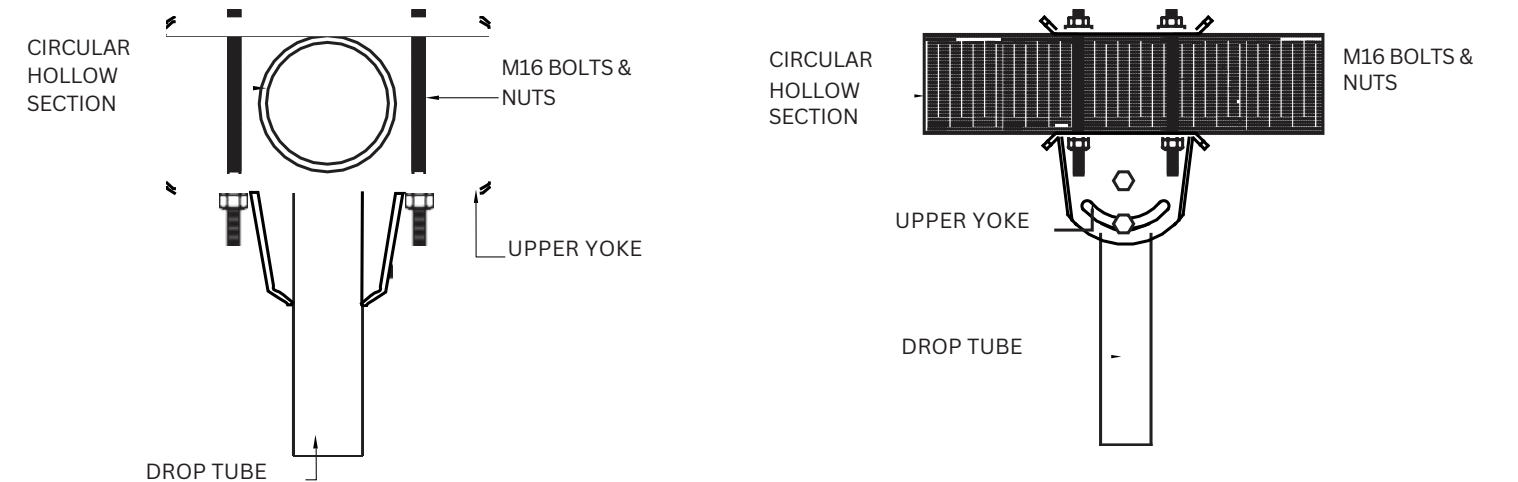
## Mounting Details to I - Beam



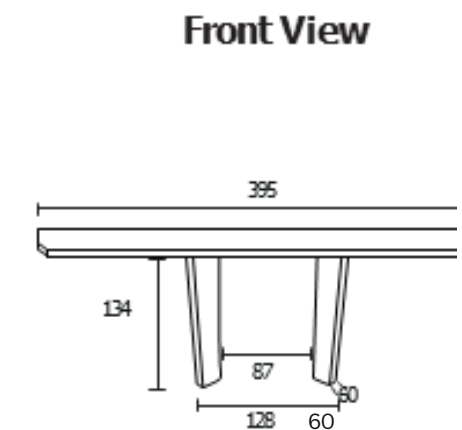
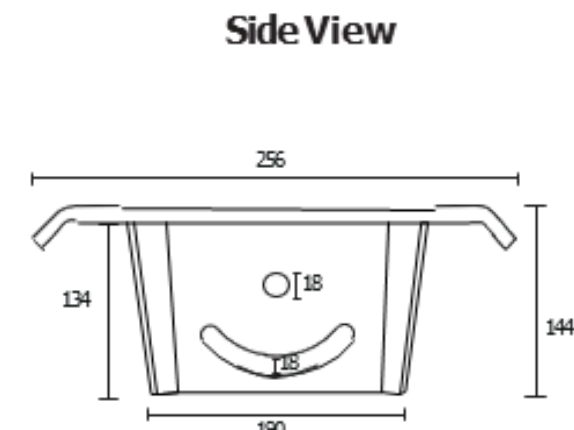
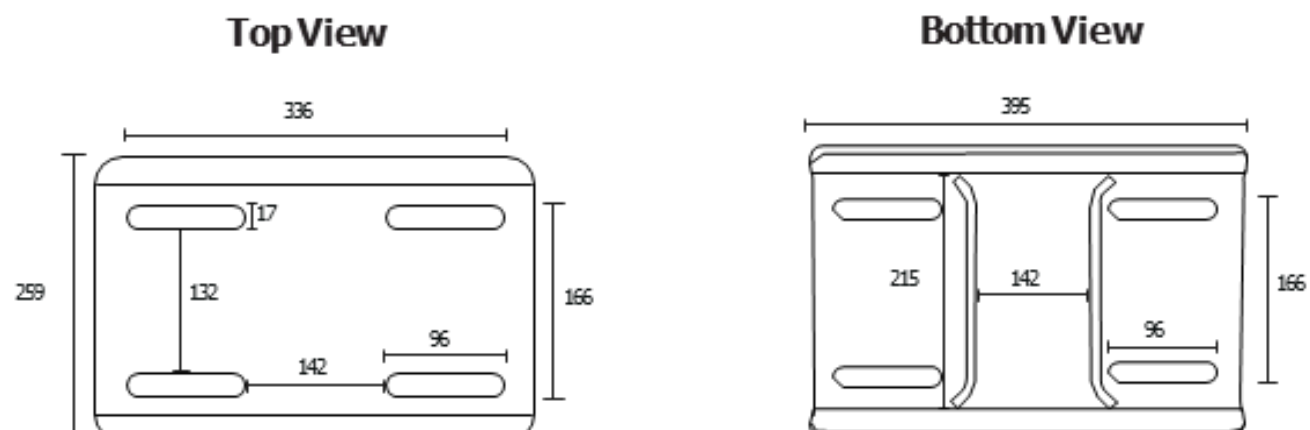
## Mounting Details to Square/Rectangle Hollow Section



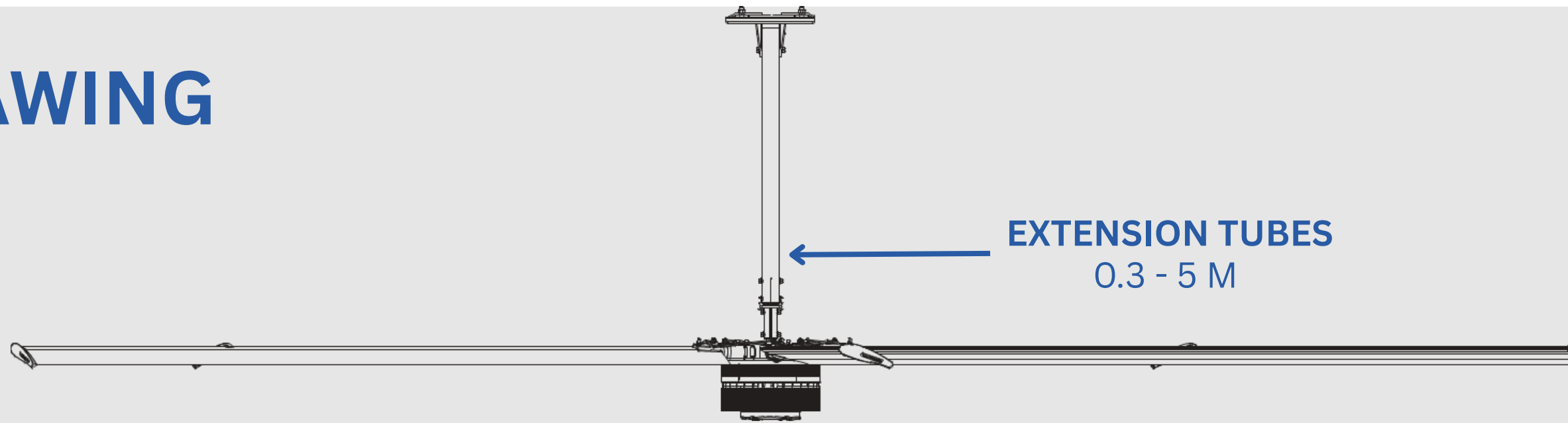
## Mounting Details to Circular Hollow Section



## Mounting plate



# LINE DRAWING



## GENERAL GUIDELINE

- Before beginning installation, check that the building structure and fan location meet safety guidelines by confirming the below requirements.
- Fans mounted on fabricated I-beams, which are common in steel buildings, could cause the beam to flex and the fan to move during operation.
- The fan's lateral movement must be secured using guy wires if the fan's extension tube is longer than 1 ft (0.3 m) or if the mounting structure requires it. If the fan is close to any building fixtures, it is recommended to secure the fan with guy wires as a safety measure.
- Multiple fans must be spaced at a center-to-center distance that is no less than 2.5x the fan diameter.
- The fan must be installed so that it is  $\geq 18$  ft (6m) above the finished floor.
- All fan parts must be  $\geq 2$  ft (0.6m) from all obstructions. The fan installation area must be free of obstructions such as lights, cables, sprinklers, or other building structure components.

## WE CUSTOMIZE JUST FOR YOU.



### SITE EVALUATION

Our trained engineers will visit your site to evaluate the situation.



### DESIGN

Valuable info collected from site visit will be important for our team to design an action plan for your site.



### PROPOSAL

We will present the proposal to you and explain thoroughly on what should you install and why.



### SCHEDULING MAINTENANCE

You will be alerted by our friendly customer service agents for scheduled maintenance.



### SAFETY ASSURANCE

Safety measures are prioritized during and after installation of our HVLS fans.



### ON-TIME INSTALLATION

Delivering the most efficient HVLS fan installation to ensure your site operation is not disturbed.



### CLEAN AND COMFORT

Carrying out cleaning services and keeping HVLS fan dust-free are our priority to your comfort and site hygiene.



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