

35F / 35FD Blade

The low vibration blade for large fans



corimco

RESISTS EVEN THE MOST AGGRESSIVE ENVIRONMENTAL CONDITIONS

35F / 35FD blade with fibre-reinforced plastic (FRP) pultruded shaft is simply the best product for Wet applications. A combination of different materials and painting cycles offers the perfect corrosion resistance in the most aggressive environmental conditions, including offshore and seawater applications.



SUITABLE FOR VFD MOTOR APPLICATION

Available from 20 to 36 feet (40 feet with 35FD version) diameter with different G hub configurations to optimize blade length and natural frequency values, Cofimco 35F/35FD Blade is suited to VFD motor driven applications, typically Cooling Towers and Air Cooled Steam Condensers.





INNOVATIVE COMPOSITE MATERIALS

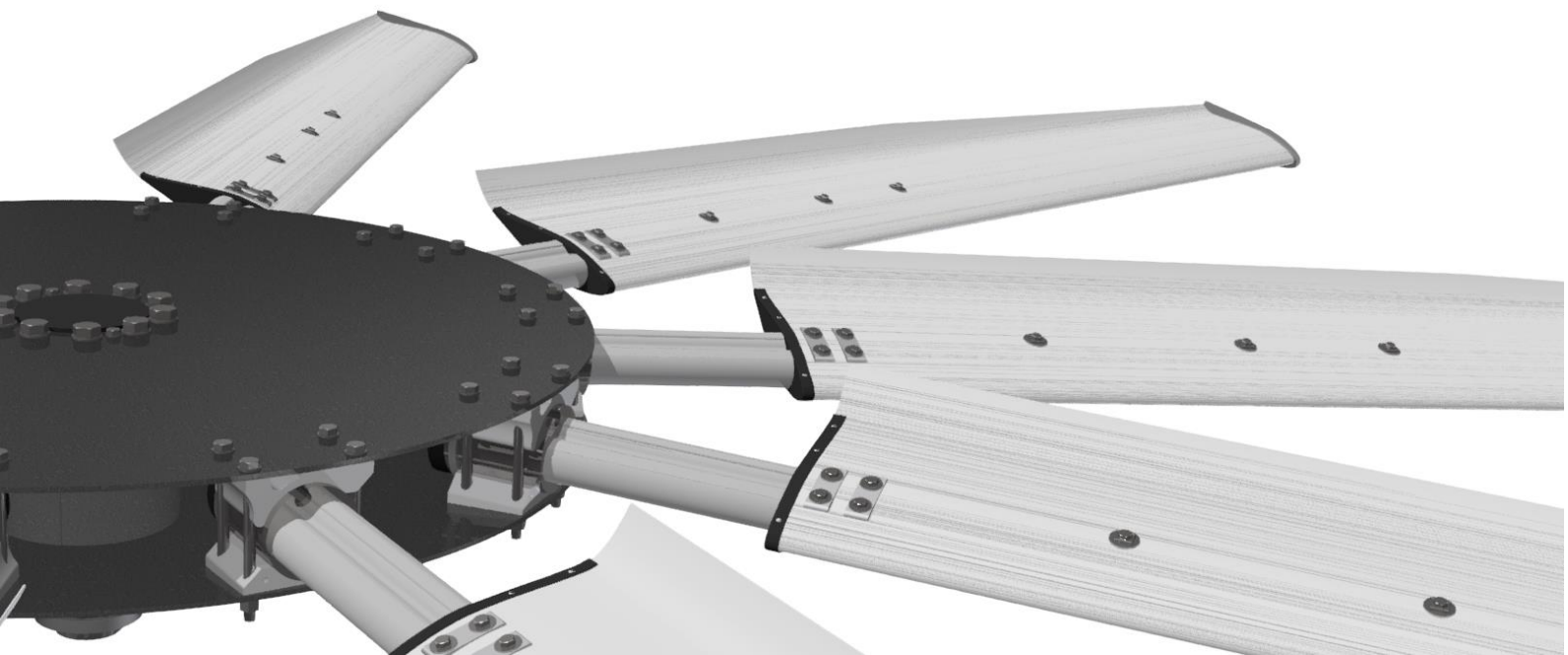
Cofimco's extensive research and laboratory tests have resulted in the development of a new innovative shaft to connect the blade air foil to the hub. The new pultruded FRP shaft with carbon-fiber, combines the unique advantages of the flexible design together with ultra high resistance against corrosion. This new material and design provide even greater blade shaft strength and performance

LOW VIBRATION

The innovative shaft material gives the blade a suitable elasticity, between a flexible and rigid connection. As a result, vibration introduced by the fan to the supporting structure is noticeably reduced. Drive system life is extended and supporting structure preserved.

DESIGN AND DIAMETERS AVAILABILITY

Cofimco Fans with 35F Blades are available from 20 ft (6,1 m) to 36 ft (10,9 m) diameters and from 20 ft up to 40 ft (12,2 m) with 35FD Blades. The blade, equipped with the innovate shaft, is made with a traditional aerodynamic airfoil, fixed to the shaft by means of bolts. Special root cap design determines a total efficiency increase reducing reverse airflow effects and allows better flow distribution along the blade. Special root and tip caps are riveted to the airfoil.

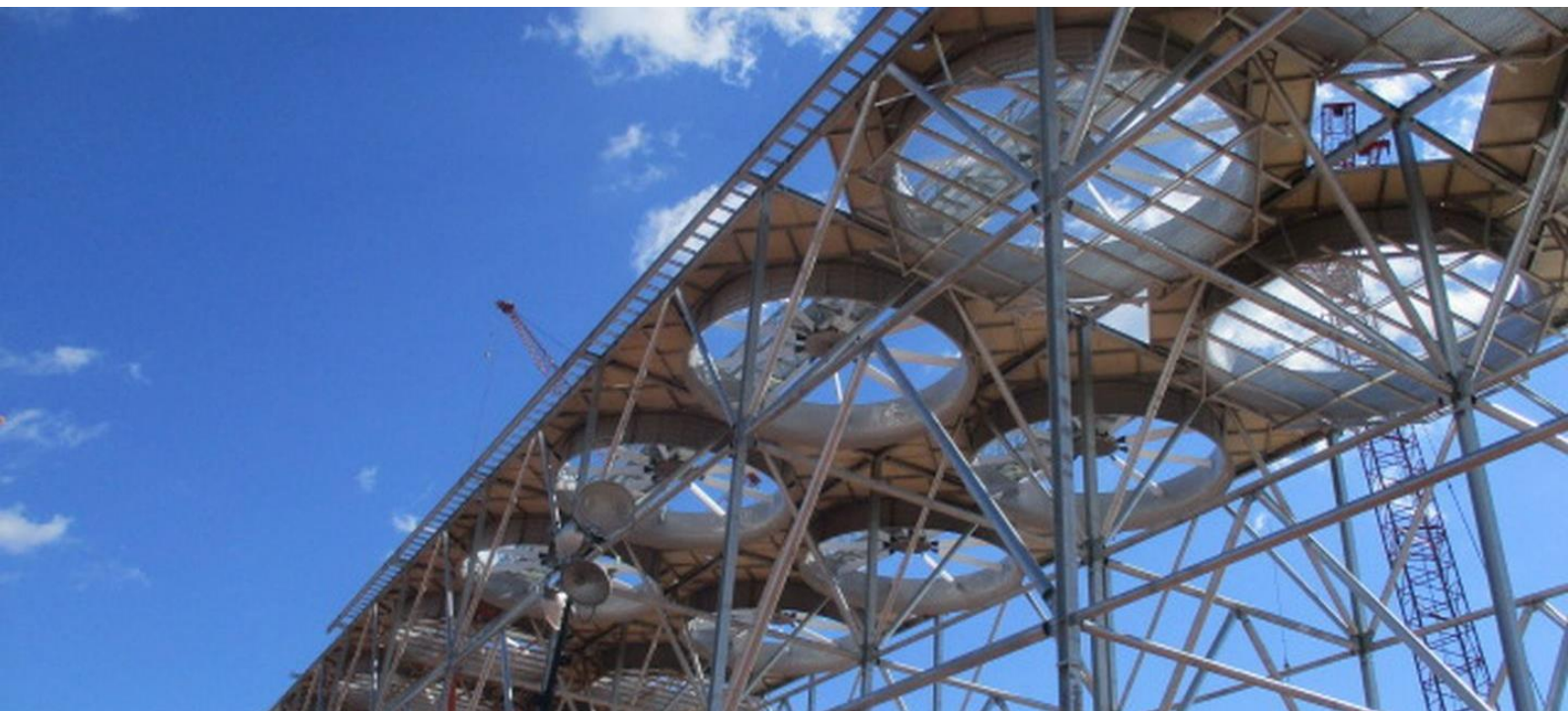


CERTIFIED TO STANDARD ATEX 2014-34-EU

Cofimco fans are available also for application in ATEX area, zone II 2G/D c IIC Tx.

PATENTED DESIGN

Cofimco patented 35F and the 35FD fan blades are the first and only ones that combine a pultruded FRP shaft with carbon-fiber.





ADVANTAGES OF COFIMCO 35F / 35FD BLADE

- ▶ Vibrations and loads introduced by large fan blades in the supporting structure are greatly reduced thanks to the resulting blade elasticity, midway between flexible and rigid links.
- ▶ The fan blades are able to withstand severe duty points and manage the high abrupt loads frequently introduced to the blades of large fans.
- ▶ Drive system life is extended and supporting structure preserved. This new material and design represent a great improvement in blade shaft strength and performance.
- ▶ Patented design.
- ▶ Compliant to ATEX Normative 2014-34-EU for zone II 2G/D c IIC Tx.

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