

*FLEXI*Blade

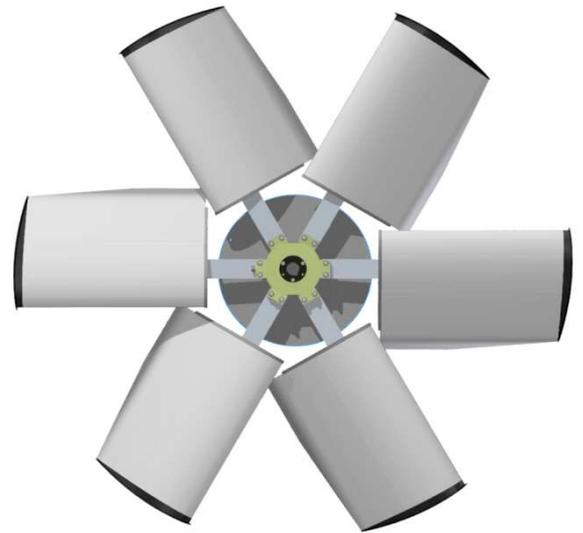
The low vibration fan solution



COFIMCO

WHAT IS FLEXI BLADE

FLEXI Blade is the innovative fan blade that, with a flexible connection between the airfoil and hub, reduces the vibrations transmitted to the drive system and supporting structure. FLEXI Blade is available on Cofimco *B Series* fans.



FLEXI BLADE TECHNOLOGY

The patented FLEXI technology foresees a special flexible element in high tensile steel, to fix the airfoil to the hub. Compared to similar products in the market which use rubber connection components, this design is not affected by severe ambient conditions.

LOW NATURAL FREQUENCY

Thanks to flexible element design, the natural frequency of the FLEXY Blade is always far from the typical fan forcing frequency (blade passing frequency). This feature allows the use of the FLEXI Blade on motor driven by VFD.



LOW VIBRATION

FLEXI Blade works like a damper, as a result, the forces acting on fan during rotation, are absorbed with consequent reduction of vibrations and loads on fan drive system and supporting structure.



LIFE INCREASE OF FAN DRIVE SYSTEM

Fan drive bearings and transmission components, are the parts principally subjected to loads and weight of the fan. Thanks to the light design of FLEXI Blades and the consequent reduction of loads and vibrations, their life is noticeably increased.

CERTIFIED TO STANDARD ATEX 2014-34-EU

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

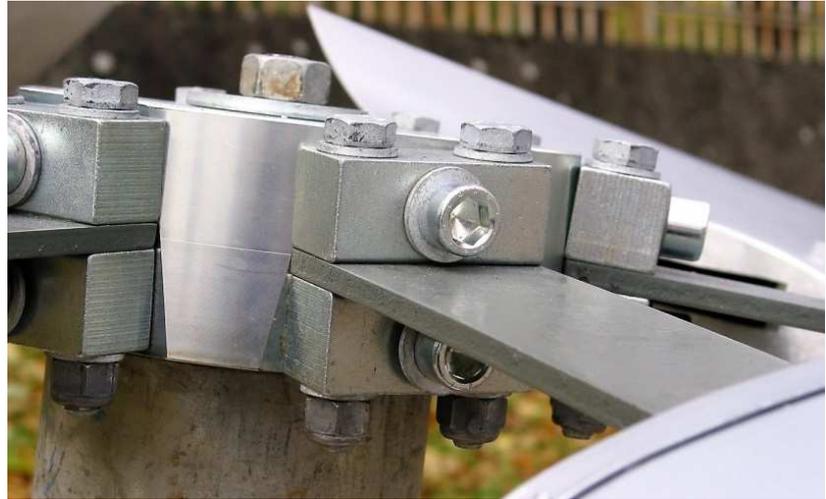


EASY INSTALLATION AND SETTING

Cofimco FLEXI Blades are installed on the B series hub, one by one. Only two bolts per blade are required for the blade fastening. This feature, together with the low weight, makes FLEXY Blade easy to install and set.

CORROSION PROTECTION PROOF

Cofimco B Series fans can be manufactured with different type of protection and material as stainless steel and aluminum depending on the components in order to satisfy customer request and adapt to different types of environment.

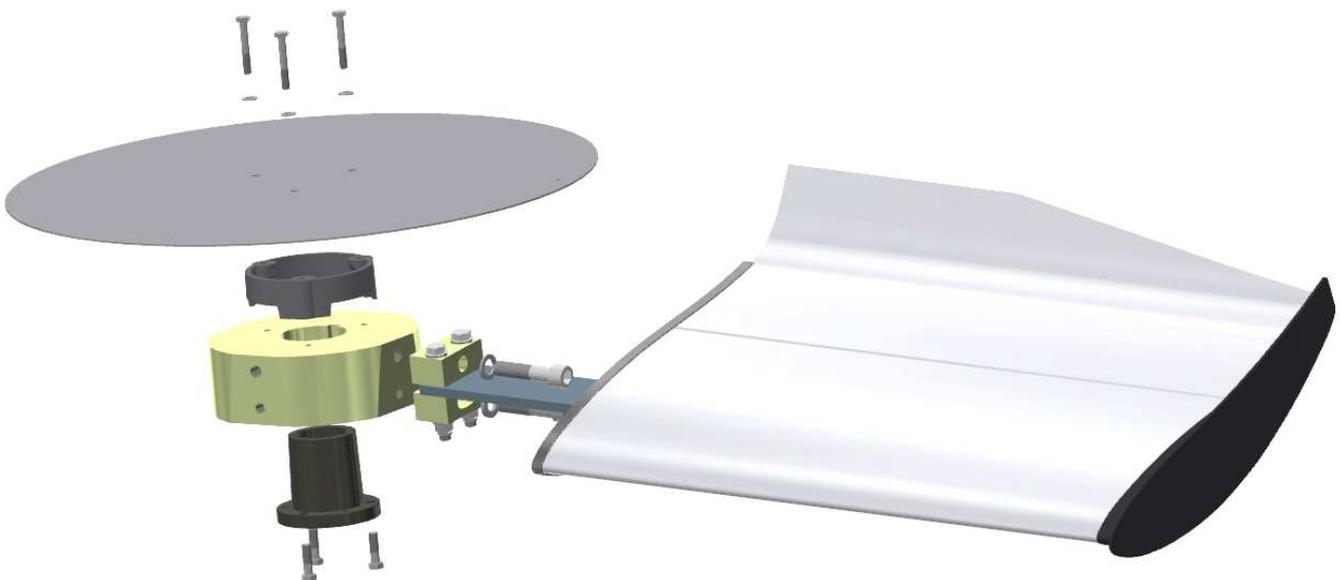


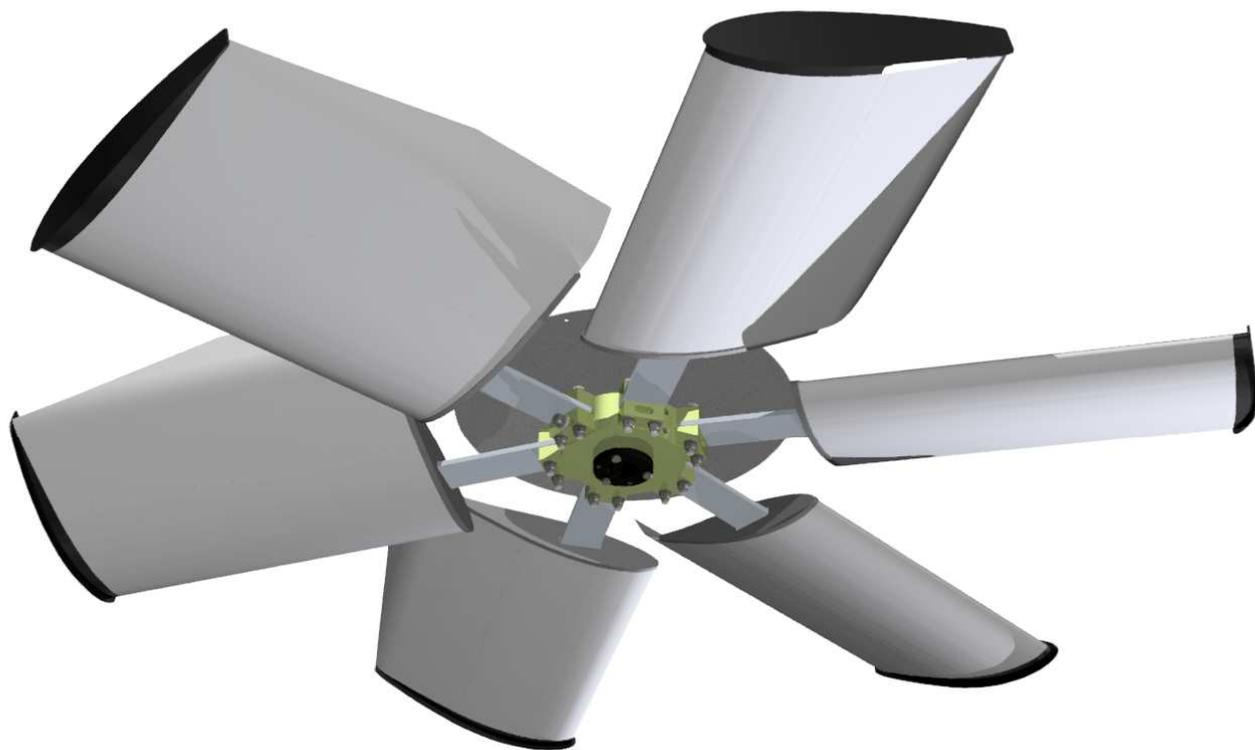
LARGE SELECTION OF FAN MODEL AVAILABLE

B Series fans with manual or auto-variable pitch, are available in diameters from 5ft up to 20 ft (6.1 m), in ten different blade profiles either aluminium or FRP material. TANDEM[®] Blade also foresees FLEXI elements technology.

Both clockwise and counter clockwise configurations are available in standard and reverse mounting types.

The B hub is available in three different sizes, depending on the fan diameter and number of blades. Connection to the driving shaft can be provided through either a cylindrical bore or tapered bushing.





ADVANTAGES OF COFIMCO FLEXI BLADE

Thanks to its damper function and its light design, Cofimco FLEXI Blade allows a large series of advantages.

- ▶ Reduction of vibrations and loads on fan drive system and supporting structure
- ▶ Increase the life of fan drive components
- ▶ Suitable for VFD motor
- ▶ Light design
- ▶ Easy installation and pitch setting
- ▶ Available for a large selection of hub sizes and airfoils, TANDEM®Blade included
- ▶ Adaptable to different type of environment
- ▶ Compliant to ATEX Normative 2014-34-EU for zone II 2G/D c IIC Tx
- ▶ Patented design

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