

# Advanced Care 4.0 for fans

BIT  
BOX  
SERVICE



B<sub>3</sub> FANTECH 

Monitorize



Diagnose



Assist

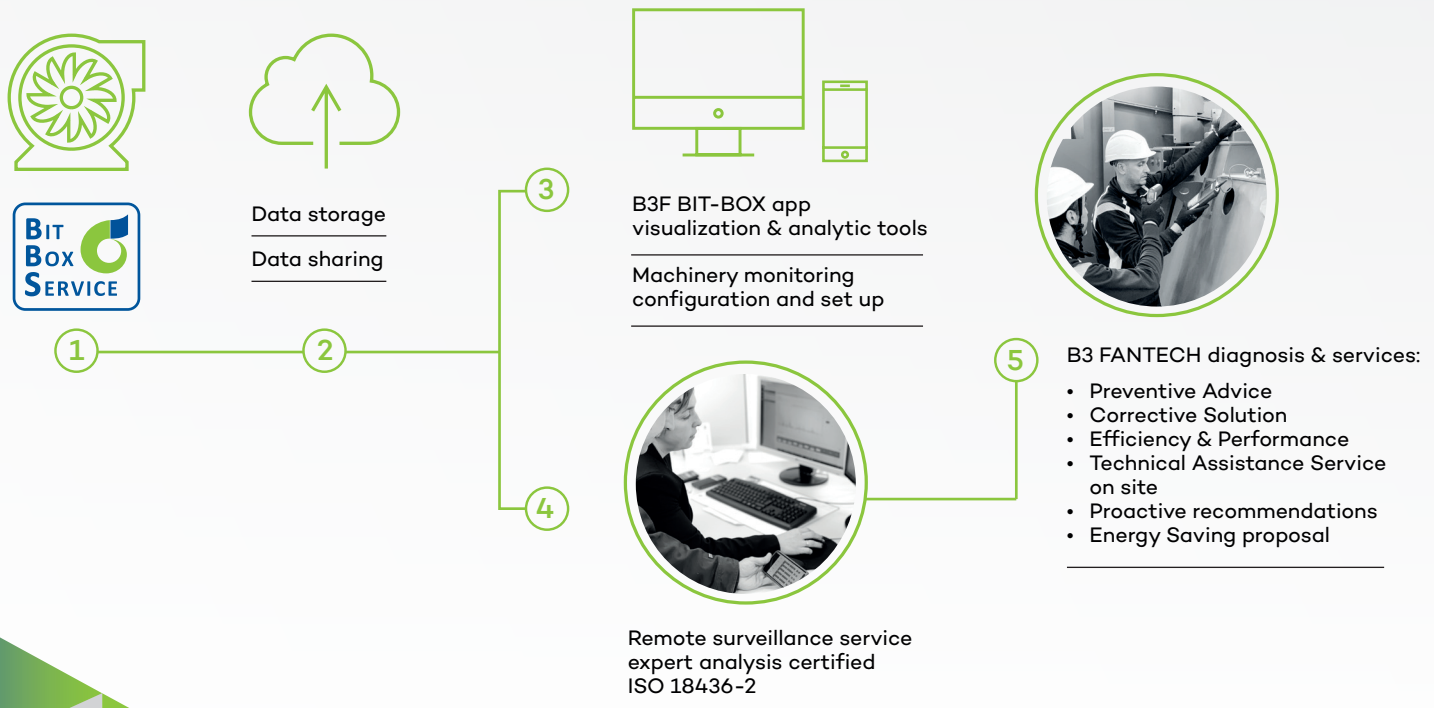


# B3F BIT-BOX SERVICE

The **BIT-BOX SERVICE** allows an adequate and reliable **Predictive, Preventive and Corrective maintenance** and the **performance optimization of fans**.

**B3 FANTECH** offers the **BIT-BOX SERVICE** of continuous monitoring for Condition Based Maintenance (CBM) applicable to rotating machinery and in particular to Industrial Fans.

By means of the Maintenance Based on the machine Condition, the fans are diagnosed detecting the changes or alterations in their initial stages through a selective alert system that allows to identify with precision which is the origin of those failures, avoiding not scheduled stops.







## Service advantages

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## LOW COST VERSUS HIGH BENEFITS

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- Cost of equipment maintenance
  - Breaks of components
  - Unscheduled stops
  - Maintenance stop period
  - Stock of spare parts

- Profitability of the fan
  - Life of the components and the fan
  - Safety of the equipment
  - Knowledge of the fan use and performance optimization
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## Service features

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### Reliable electronics for data collection:

- Vibration signals
- Temperature signals
- Rotation speed signal
- Absorbed power signal
- Pressure signal

### Secure data management:

- Independent from customer network (optional)
- VPN connection
- Data storage capacity when communication is down

### Analysis and diagnosis of fan status:

- Overall understanding of fan behaviour and use
- Surveillance and analysis by fan experts (certificated in ISO 18436-2)
- Unlimited users access to monitoring platform
- Website developed for analysis and diagnosis
- Remote diagnosis continuously or on demand

### Optimization of fans:

- Measure of real fan performance
- Energy saving calculation
- Fan upgrade proposal

### Technical Assistance Service on site:

- Expert technicians
- All around the world
- Efficient service due to previously analyzed solutions

# Surveillance & Optimization

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## 01

### **Stand Alone Monitoring**

B3F BIT-BOX SERVICE offers a solution for online monitoring of fans. In this way the user can analyze the data received remotely and in real time, to diagnose the status of the equipment and its performance.

## 02

### **Remote Surveillance by Experts**

B3F BIT-BOX SERVICE also offers the machine Condition Monitoring Service by continuously monitoring the fans by specialized technicians, advising the customer of possible failures and providing detailed reports on a regular basis. With this solution we can locate the wear and tear of a mechanism, check the damage and identify the root cause of the failure and analyzed the fan performance and efficiency.

## 03

### **Condition Monitoring and Optimization Service**

B3F BIT-BOX SERVICE provides necessary data to diagnose fan failures allowing effective maintenance tasks, fan repairs and mechanical upgrades.

Additionally, fan performance and efficiency can be optimized, monitoring how the fans are used. Energy saving proposal is addressed to the customer with the necessary fan upgrades and adjustments.







## Technical Assistance Service on site

**B3 FANTECH Baltogar has been manufacturing industrial fans for 75 years and has numerous references in various sectors such as Paper, Iron and Steel, Energy, Petrochemicals, etc .**

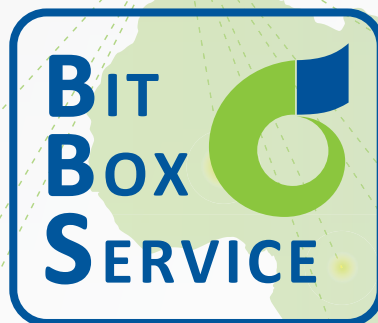
**B3 FANTECH** as fan manufacturer, has a Technical Assistance Service on site with expert personnel in maintenance and repair of fans, which can be moved 24h / 365d to mil site after the client's request.

### **"Immediate response capability"**

The **B3F BIT-BOX SERVICE** increases the effectiveness of field intervention by providing key information to the expert technician for the repair and maintenance of the machine reducing the repair time.



**“ WE CONTRIBUTE TO CREATE A MORE EFFICIENT  
INDUSTRIAL ENVIRONMENT THROUGH THE INTEGRATION  
OF TECHNOLOGY AND THE KNOWLEDGE OF PEOPLE ”**



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