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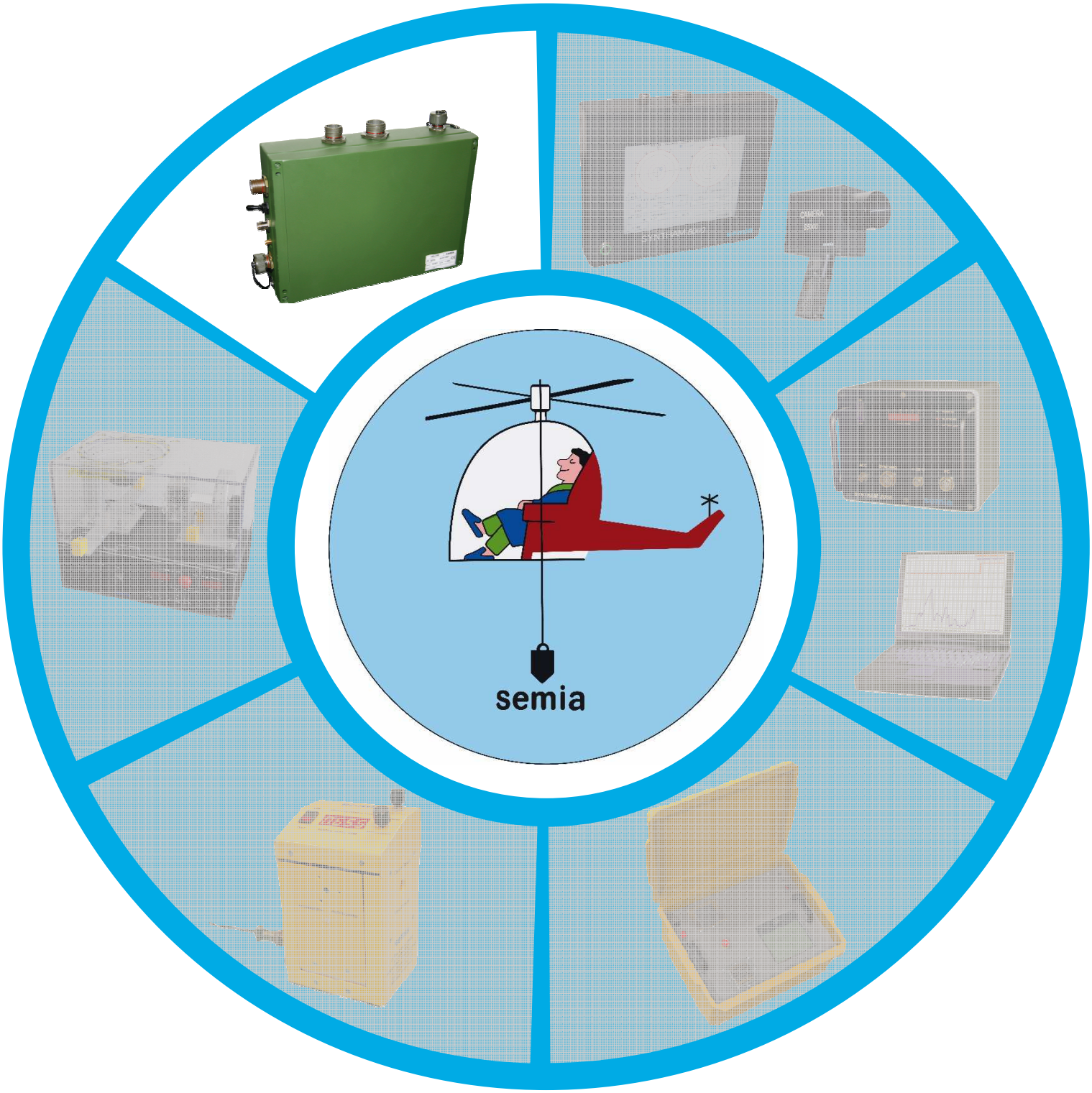
Helivib



On-Board / Connected Vibration Recording

ISO 9001
EN 9100
BUREAU VERITAS
Certification

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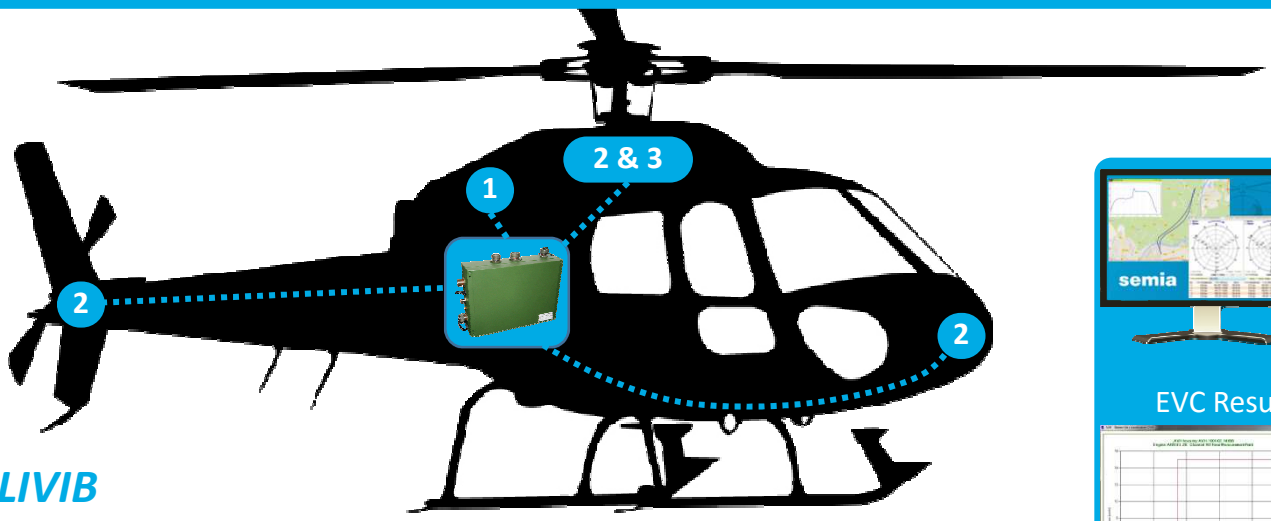
On Board / Connected Vibration Recorder

- **Helivib** is the On-Board brother of the **Syntham 5000** GSE giving a new dimension for the vibration monitoring. By autonomous working, **Helivib** allows to save time and reduce technical flights number with a factual vibration management.
- The **semia** company is approved PART 21J APDOA (Design Approval), PART 21G (Production Approval) and PART 145 (Maintenance Approval) for this **Helivib** system entirely designed by internal team.
- **Helivib is EASA approved on AS350 Family** (Supplement Type Certificate), other aircrafts in progress.



HELIVIB

The best vibration monitoring

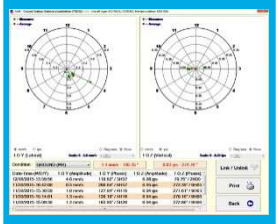
Engine & Airframe vibration measurements
Automatic recording regarding flight conditions
Data collected during any operational flight
Data transmitted with wireless M2M connection
Invisible for aircraft exploitation, better availability

Less human, time & fuel consuming

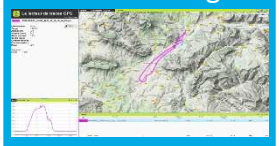
No human resource needed before **Step 5**
No time & fuel needed for technical flight (if no setting)
No repetitive GSE installation lost time

EVC Results

Balance Results



GPS tracking



STEP 1
Start Up
EVC measurement (NG & FT)

STEP 2
Ground
Main & Tail Rotor Balance measurement

STEP 3
Hover / Flight
Main Rotor Balance measurement

STEP 4
Landing / Power Off
Data Transmission to FTP server

STEP 5
Ground Station
Analysis

TECHNICAL CHARACTERISTICS

- Power Supply.....28V/S.Capacitors
- Dimensions.....30/22/7 (cm)
- Weight (Main Unit).....3,7 Kg
- Service Temp.....-45/+70°C
- Storage Temp.....-55/+85°C
- Humidity.....5 to 90%
- Communication.....USB / M2M
- Geo-location.....GPS
- Flight conditions...auto-detection

Airframe (Rotor Track & Balance)

- Average amplitude.....+/- 5%
- Resolution phase.....+/- 2°
- Vibratory.....5 input channels
- Tachometers....3 input channels
- Frequency.....180 to 60000 RPM
- Track.....Optional S5000 Camera

Engine (Engine Vibration Control)

- Speed range...60 to 60000 RPM
- Maximum vibration...100 mm/s
- Vibratory.....2 input channels
- Tachometers....2 input channels
- Temperature.....1 input channel
- FFT..... 1024 to 8192 points
- Measurement precision.....2%