



# VIBRATOPE

**Intelligent vibration analyzer  
for batch centrifuges**

—

THE SAFE CHOICE !



[www.batch-centrifuges.com/en](http://www.batch-centrifuges.com/en)



# VIBRATOPE<sup>®</sup>: WHY?

## IN-PLANT OBSERVATIONS

**Many batch centrifuges vibrate or move too much!**

### What are the vibrations related to?

- ▶ Mechanical defects (bearings, suspensions, balance...)
- ▶ Unbalanced solid loads (irregular distribution of the cake...)
- ▶ Unbalanced liquid loads (waves)

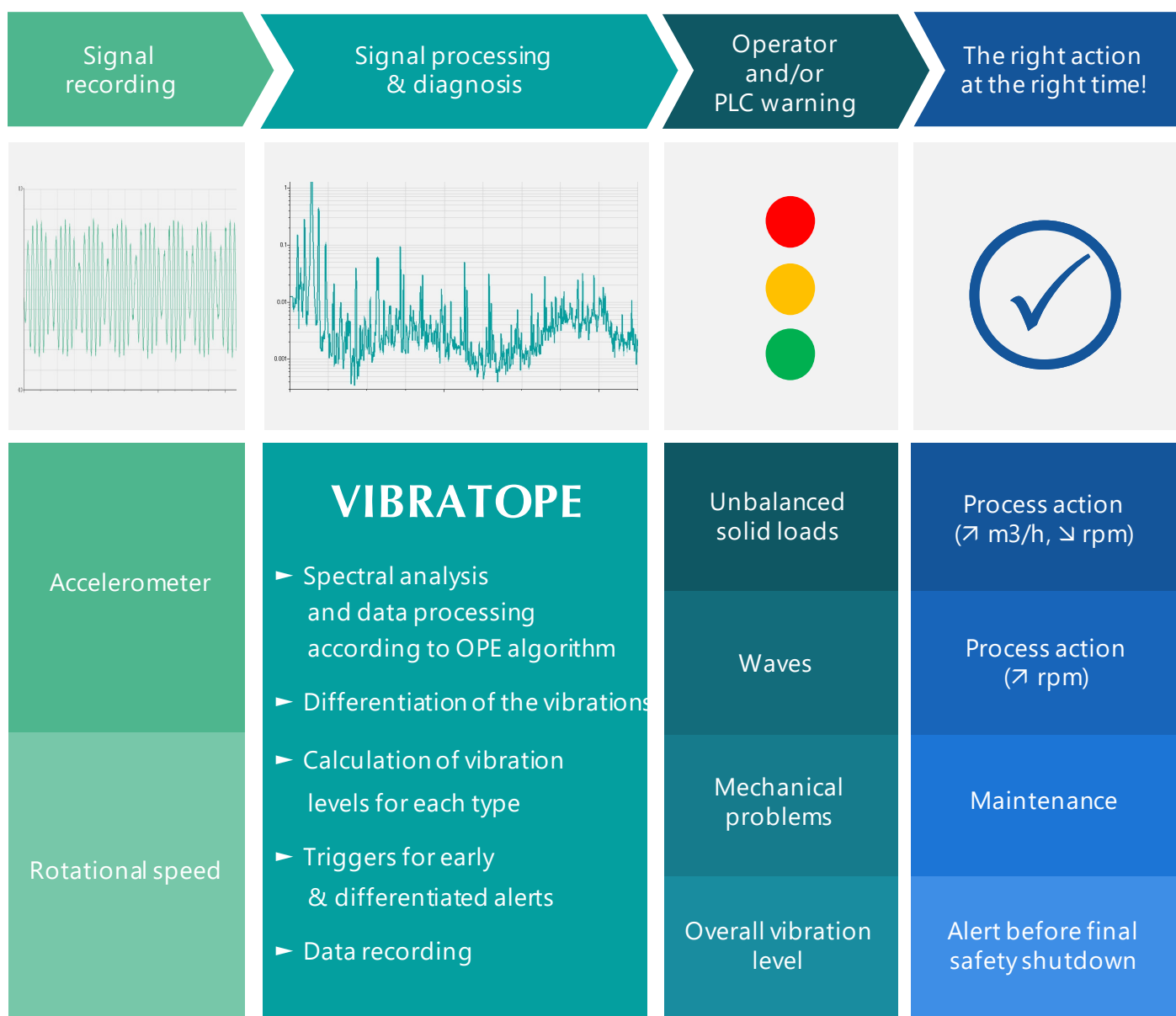
### How are they detected?

- ▶ Displacement amplitude measurement
  - > suitable for very low frequency unbalanced solid loads or waves
- or ▶ Overall vibration measurement
  - > suitable to detect mechanical problems, an uneven cake distribution, some waves
- or ▶ Sometimes only by the operator's observations

### Why are detectors sometimes not efficient?

- ▶ Detection hardly ever combined ⇒ incomplete monitoring
- ▶ Too late detection ⇒ disproportionate action (automatic shutdown)
- ▶ Vibrations detector inefficient to monitor displacement... and displacement detector inefficient to monitor vibrations
- ▶ Overall measurement... without the ability to identify the cause
- ▶ Same response... to problems having different causes

# VIBRATOPE®: THE CONCEPT





# VIBRATOPE<sup>®</sup>: THE BENEFITS



## SAFER BATCH CENTRIFUGES

- ▶ Continuous monitoring and analysis of the vibrations **and** displacement (for the dangerous waves)
- ▶ Monitoring of low frequencies to detect ALL types of waves
- ▶ Differentiation of the causes of the vibrations, to react appropriately
- ▶ Optional remote monitoring
- ▶ Optional alerts by email or by SMS
- ▶ Password protected settings



## MORE RELIABLE BATCH CENTRIFUGES

- ▶ Early detection of the causes of the vibrations in order to react quickly
- ▶ Fewer production shutdowns
- ▶ Less premature mechanical wear
- ▶ Ability to review and analyze recorded data



## MORE PROFITABLE BATCH CENTRIFUGES

- ▶ A better protection to avoid accidents
- ▶ Much less shutdowns
- ▶ Less maintenance thanks to vibrations reduced
- ▶ A better productivity
- ▶ Viscodampers less damaged



# VIBRATOPE®: THE USERS



## VIBRATOPE

Intelligent vibrations analyzer  
for your batch centrifuges

**PATENTED**

and developed by OPE

**PROFITABLE**

very quickly

**EASY**

to install

**UNIVERSAL**

suitable for all batch centrifuges

