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Mastering Machining Vibrations

Vibraction brings you a comprehensive approach, stop « do-it-yourself »!



« Within few minutes your method found the optimum cutting conditions, while we spent weeks to find them »

« We had this problem during 7 years. Gain: €20,000 / year »











YOUR GOALS:

- Determine problem's root cause





- Increase productivity





« ChatterMaster brought to our machinists beginers the equivalent of 5 to 10 years of experience about chatter, in only few weeks »

« You made us discover a € 2 million / year source of productivity, in the very heart of our workpiece production »







faurecia







Our Services







Expertises (possible half-day)

→ Seamlessly.

Trainings



→ Creates a real dynamic to focus on problem's real source.

Simple measurements and calculations.

Testimonials

- « You shown us a 50% productivity gain on a workpiece that was not even known as a vibration problem »
- « The acquisition of the method resulted the first year in a € 150,000 / year gain »

« We have tripled the cutting conditions on an aluminum workpiece, with less vibration than the original process »

(PRÄWEST)



























CHANGE AS A SHIP WAY

Wibraction

Mastering Machining Vibrations

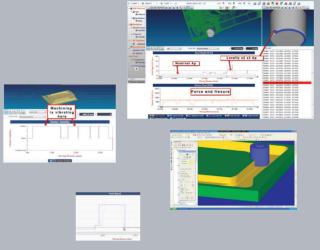
Your method against machining vibrations



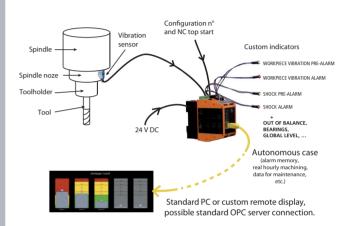




Your CAM anticipating flexure and vibration.



Your monitoring system, simple and powerful.



Level 1: simple, for (all) technicians.

- → Learn to analyze quickly and objectively any machining situation.
- → Learn to determine cutting conditions without vibrations, even before machining.
- → Learn to **exploit 100% of the machining system** (with the first two levers of the ChatterMaster method: stiffness, frequency).

On-site training: 1 - 2 days.

Level 2: global approach, for 1 - 2 - 3 experts.

- → Learn to methodically analyze all aspects of machining, even complex ones.
- → Learn to exploit 100% of the machining system (with the four levers of the ChatterMaster method: stiffness, frequency, damping, cutting force).
- → For each situation, find out which aspect must be improved to increase productivity, and what values the associated parameters must have.

On-site training: 2 - 3 days.

Level 1: simple, for (all) CAM programmers

- → Understand how stiffness, damping, frequency and cutting force interact together.
- → Learn to evaluate quickly these parameters.
- → Objectively identify the critical phases.
- → Rationally exploit all opportunities (choice of tools, CAM strategy selection, choice of machining fixture, etc...).
- → Capitalize stiffness and frequency values for future machinings.

On-site training: 1 - 2 days

Level 2: global approach, for 1-2-3 experts.

- → Analyze critical programs, using MACHpro Software.

 (modeling machine accelerations, cutting forces, tool's flexure or vibrations)
- → Learn to operate the four levers of the ChatterMaster method (stiffness, frequency, damping, cutting forces).

On-site training: 2 - 3 days.

Level 1: simple, for machine monitoring.

- → Monitor (recording alarms) les vibrations et les chocs.
- → Mesure the real-time machine operation.
- → Optimize maintenance by repairing only the necessary.
- → Be autonomous to setup the system (pre-alarm and alarm thresholds alarm, history display, etc.).

On-site training: 1 - 2 days.

Level 2: advanced approach, for critical machinings.

- → **Identifier the exact origin** of vibrations (tool, workpiece, machine axis, spindle).
- → Monitor problem's forecast indicators.

On-site training: 2 days.