



CONDITION MONITORING AUSTRALIA

Vibration & Alignment Specialists



CONDITION MONITORING - VIBRATION ANALYSIS - DYNAMIC BALANCING - LASER ALIGNMENT - OIL ANALYSIS
CM TRAINING - POST OVERHAUL MACHINE QUALITY TESTING - MOTOR CIRCUIT ANALYSIS - THERMOGRAPHY



Independent condition monitoring since 1994

CMA has been providing professional condition monitoring services since 1994 in a wide range of CM technologies.

The focus of CMA is to provide a "one stop shop" for all your CM needs with a reputation for supplying the benchmark in CM system support.

Services range from routine data collection and analysis to system installation and complete CM training. Database management, System Reviews and Audits, Alarm Setting are just a few of the wide range of services available to maximise the return on investment for your CM program.



Success Through Excellence

Ethics in Condition Monitoring

The team at CMA has been involved with CM since 1987 and believes that clients deserve the best possible service and support available. Your CM program is, without doubt, the most important source of savings available to your company through improvements in maintenance strategies and increased production up time.

When you contract a company to provide solutions to your CM program, you are essentially asking for a company to take ownership of your maintenance philosophy. CMA has a proven record of establishing and maintaining professional CM programs that grow with the company and become the companies' core maintenance tool.

To leave no doubt about the integrity and ethics of our business, we are very pleased to be able to sign a contract with you, clearly stating our intentions.

7 key points give you peace of mind

1 Ethics

CMA will always strive to provide ethical, low cost solutions to machine problems and CMA will always strive to reduce unnecessary expenditure by the client.

2 You are always first

CMA will always act in a professional manner on behalf of the client and with the clients' best interest at heart.

3 Rapid Response

CMA will always make available to the client a 24/7-phone number for full CM support, when you need it.

4 Conflict of Interest

CMA agrees not to receive fees, rebates, or financial advantage from any company or supplier used for and on behalf of the client above normal commission margins.

5 Data ownership

CMA will always make available to the client all data and intellectual property collected on behalf of the client.

6 Program Modifications

Clients will always be welcomed to discuss desired changes to the program and CMA will work to include these changes to improve the quality of services provided and the overall effectiveness of the CM program.

7 Confidentiality

CMA will never reveal details of the client or processes that are not directly involved with the project and without the direct written permission of the client.

Success Through Excellence



Services available from CMA are:

- **Vibration Data Collection and Analysis**
Routine monitoring of the vibration of your critical machines limits unexpected breakdowns.
- **Independent Oil Analysis**
Regular oil analysis by an independent oil laboratory ensures that the quality of lubricants is maintained.
- **Dynamic Balancing In-situ**
Reduce vibration without removing the shaft!
- **Electric Motor Circuit Analysis**
Identify which of your motors have electrical unbalance and therefore a reduced life cycle
- **Precision Laser Shaft Alignment**
Ensure you machines are installed correctly.
- **Infrared Thermography**
Prevent unnecessary damage and potential fires due to overheating of electrical contactors and switchgear.
- **Customised Training Programs**
Special consideration is given to our Gold clients to suit their specific needs.
- **Alignment Training**
Increase the effectiveness of your team by making full use of your equipment?
- **Machine Diagnostic Training**
Continue to develop problem solving skills and increase return on investment.
- **CM Data Integration**
Get all your CM data into the one system. Why have your CM data scattered between several programs?
- **CM System Audits**
Improve the effectiveness of your CM database. CMA will scan your database for errors and establish or correct alarm values using statistical data from your own machine history.



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CMA Experience and Proven Results

With CMA's experience and proven results, our unique points of difference can benefit our valued clients in the following ways:

- We provide a certified quality service that is based on over twenty years operating a successful CM business. The value to our clients can often be measured in a variety of ways, most notably, that the value of our work far outweighs the cost of providing the services.
- We work in partnership with your team, first identifying what is important for your business then developing our monitoring and reports around your needs. We help you develop your own team or provide the expertise that you need, to provide peace of mind that there will be no unexpected plant failures.
- Progressive businesses need to appreciate the cost that an unexpected machine failure would have on their bottom line and therefore CMA place great importance on providing Cost Benefit Reports to justify all CM activity.
- By following the CMA endorsed methodology, every client is able to increase the return on CM investment AND prevent unexpected failures - in the end, it is ultimately about preventing the costs of a catastrophic failure than focusing on the cost of monitoring, that's what really matters.

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CMA Field Verified Approach

The following CMA field verified approach involves several key strengths that we see as our core business model:

- Prevention of catastrophic machine failure and corresponding OH&S and EPA license breaches is of primary importance to CMA. Monitoring machinery at our recommended optimum frequency enables CMA to be confident that all failures due to preventable defects will be detected, resulting in no unexpected machine failures.
- CMA creates machine databases using a proven decision matrix, designed from our extensive experience, encompassing all parameters that allow a complete Machine Condition Assessment Report to be delivered. Where necessary, we develop machine specific measurement techniques to enable measurements to be collected safely and accurately.
- We dynamically modify measurement collection frequencies to detect and identify developing machine defects in a timeframe that enables repairs to be carried out to prevent failure. Our extensive machine knowledge and vast experience with rotating machine failure modes, ensure that repairs are carried out in time to minimise maintenance costs and protect machine integrity.
- CMA employ qualified, field experienced, mechanical tradespeople with between 10 and 32 years vibration analysis experience, ensuring a strong understanding of all drive internal components. Our team work together and use each other's experiences to solve complex machine problems. Consistency of data and machine knowledge is maintained through this small and dedicated team of permanent staff. Remember, the same technician monitors your machinery each survey, reducing costly inductions and site awareness training and allowing our technicians and their clients to work closely together to maximum return from the CM program.
- Routine "Root Cause Analysis" of all defects identified ensures that failure modes are confirmed and understood, allowing shared outcomes between key stakeholders at all levels at site.
- We believe that "Cost Benefit Reports" are the most essential tool for sharing the success story of CM and to further justify the importance of implementing an in house CM program. CMA assist clients to measure their cost of failure by understanding the true effect a failure would have on their business. The reports provide a comprehensive, measurable knowledge of the cost of failure, be it financial, OHS, or environmental, and use the savings made by prevention of failures to increase the investment in predictive technologies and further increase production and efficiency.



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