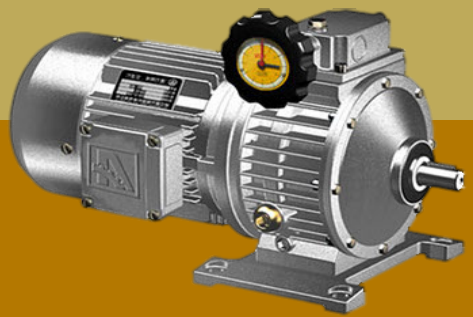
mechscan

MECHANICAL PREDICTIVE MAINTENANCE SURVEYS

Infrared thermography is used to perform P/PM inspections on mechanical equipment because excess heat means excess friction. Before a mechanical component fails, it heats up. Thermography is used to see the excess heat so that maintenance personnel can act to correct the problem before the component fails and causes damage to the component, safety hazards and/or production downtime.



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Yellotec Agent Kwazulu Natal

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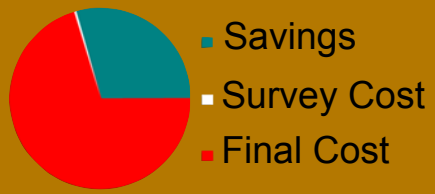
www.irtc.co.ca



We **detect** and **document** **Mechanical anomalies** with infrared thermography

IRTC
predictive maintenance

mechscan

MECHANICAL PREDICTIVE MAINTENANCE SURVEYS

Are you replacing electric motors after one to five years when they should be lasting ten years? Furthermore, just how much power is being wasted while these motors are running at less than nameplate efficiency? Generally speaking, each 10 C degree rise above the rated temperature cuts motor life by half. An increase of 20 C degrees above rated temperature would reduce motor life to about one-fourth of normal. Regularly scheduled thermal inspections of electric motors can produce thermal images that help to identify motors which are starting to overheat. Additional inspections can identify small problems before they become costly problems.

Mechanical Equipment

Some examples of mechanical equipment where thermography is used:

Pumps (overheated connections, fuse problems, overloaded electrical cables etc)

Process valves (open, closed, leakage)

Storage tanks (sludge levels)

Pipelines (check if and where there are anomalies, for example locate build up of scale etc)

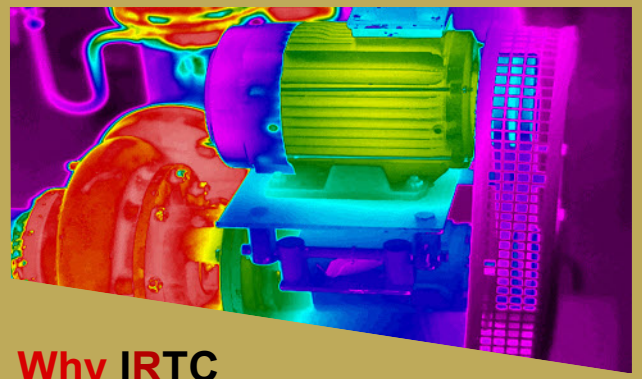
Motors (overheating bearings, misalignment, overheated windings)

Conveyor belts (overheated bearings)

Furnace inspections (ideal for monitoring all types of furnaces, heaters and boilers for refractory integrity and break down .)

IRTC

national service



Why IRTC

Save Energy and Increase Efficiency
Reduce Unscheduled Downtime
Increase the Effectiveness of Your Maintenance Personnel Efforts
Acceptance Testing
Reduced Inventory Costs
Equipment Design Improvement