



The Grinding Doc's

Grindometer

**A valuable tool for taking your grinding
operations to the next level.**

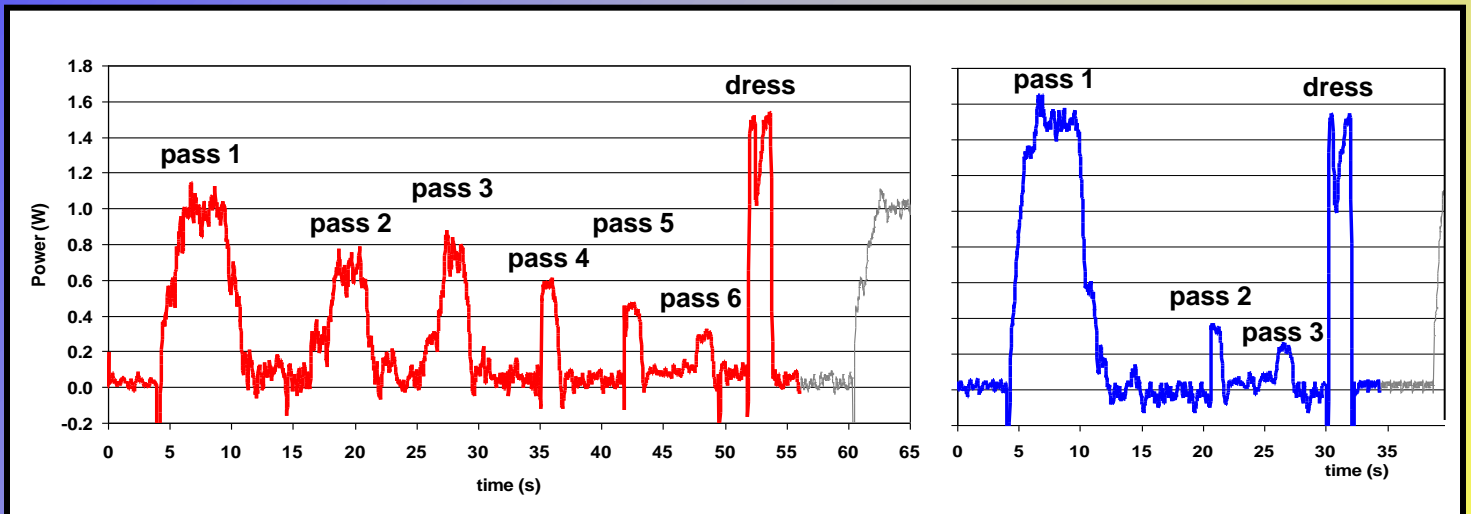
www.TheGrindingDoc.com

How it works

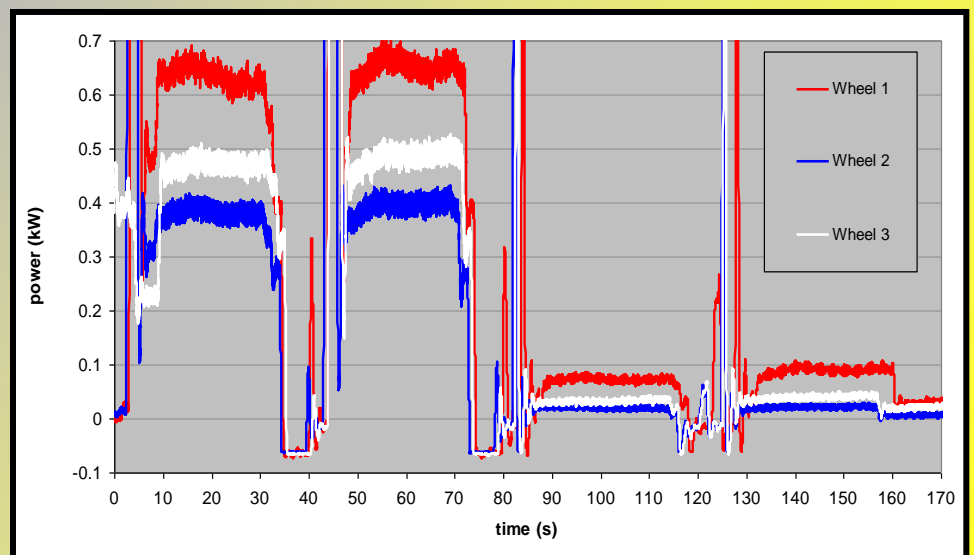
The Grindometer® measures grinding spindle power at a high sampling rate and produces a graph of grinding power vs. time. This information can then be used to determine:

- If the wheel is dulling or self-sharpening;
- If the grinding wheel is in the “sweet spot”;
- Which test wheels generate less heat and, therefore, lower temperatures and less risk of grinding burn;
- Whether process changes are reducing grinding heat;
- How changes to dressing are affecting the cycle;
- If wheel-imbalance or wheel-eccentricity is the cause of chatter;
- The best way to reduce cycle time via a visualization of the entire grinding process.

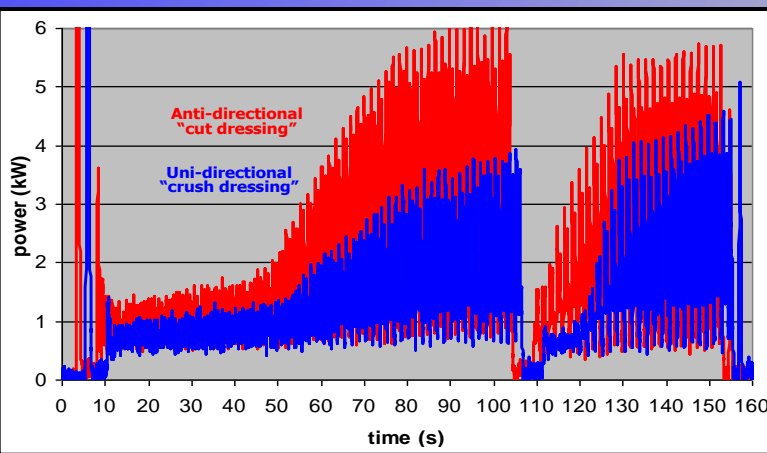
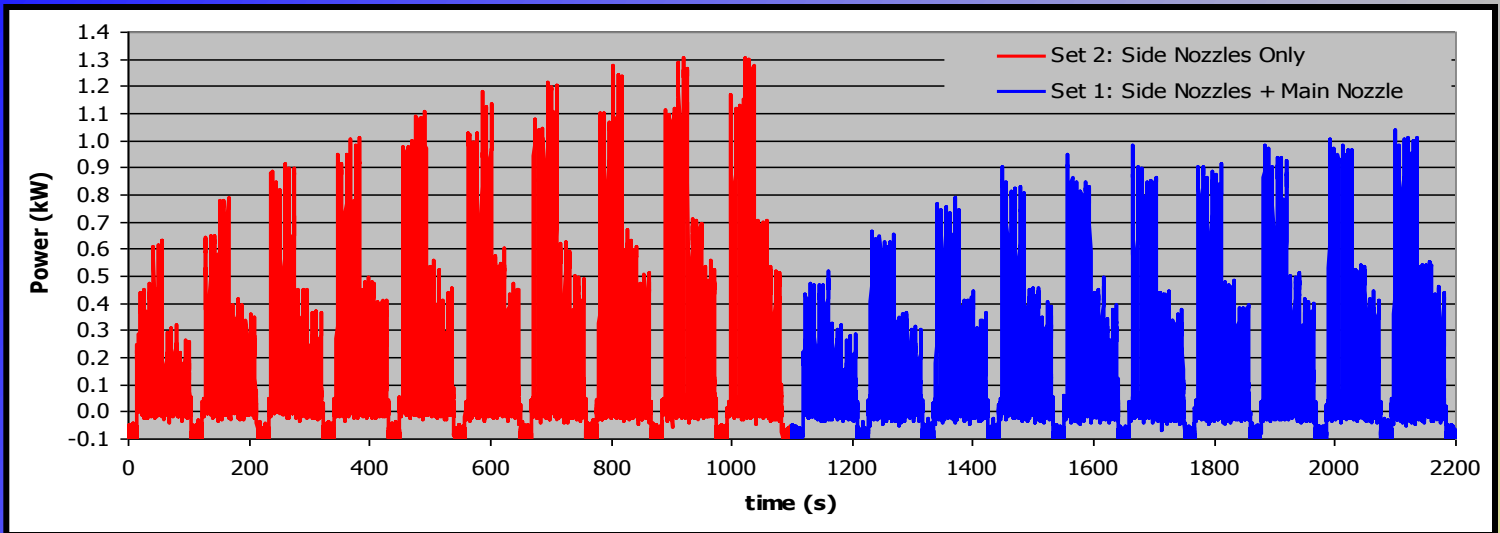
▼ Example: Grindometer® output showing where cycle-time was being taken up, giving a clear picture of the necessary action and whether the move from six passes to three passes gave an increase in heat generation.



► Example: Grindometer® output comparing three different grinding wheels. The wheel generating the lowest power will give the lowest temperatures.



▼ Example: Grindometer[®] output showing the effect of improved coolant nozzles.



◀ Example: Grindometer[®] output showing the drastic effect of dressing uni-directional vs. anti-directional in continuous-dress creep-feed grinding of nickel-alloy turbine blades.

Portable Grindometer

About the size of a briefcase, the *Portable Grindometer*[®] hooks up to machines through the back cabinet. Ideal for grinding-wheel salespeople & engineers who are on multiple machines and for companies with numerous machines.

Includes: 1) Grindometer portable power meter, cables, data-logger, instruction book, Powersheet spreadsheet for creating graphs in Excel; 2) Two days on-site or off-site technical assistance; 3) Free attendance for one person to The Grinding Doc's three-day High Intensity Grinding Course[®].

Hard-Wired Grindometer

About the size of a medium-sized book, installs permanently in the electrical cabinet of the grinding machine. Installation time by electrician: approximately 30 minutes.

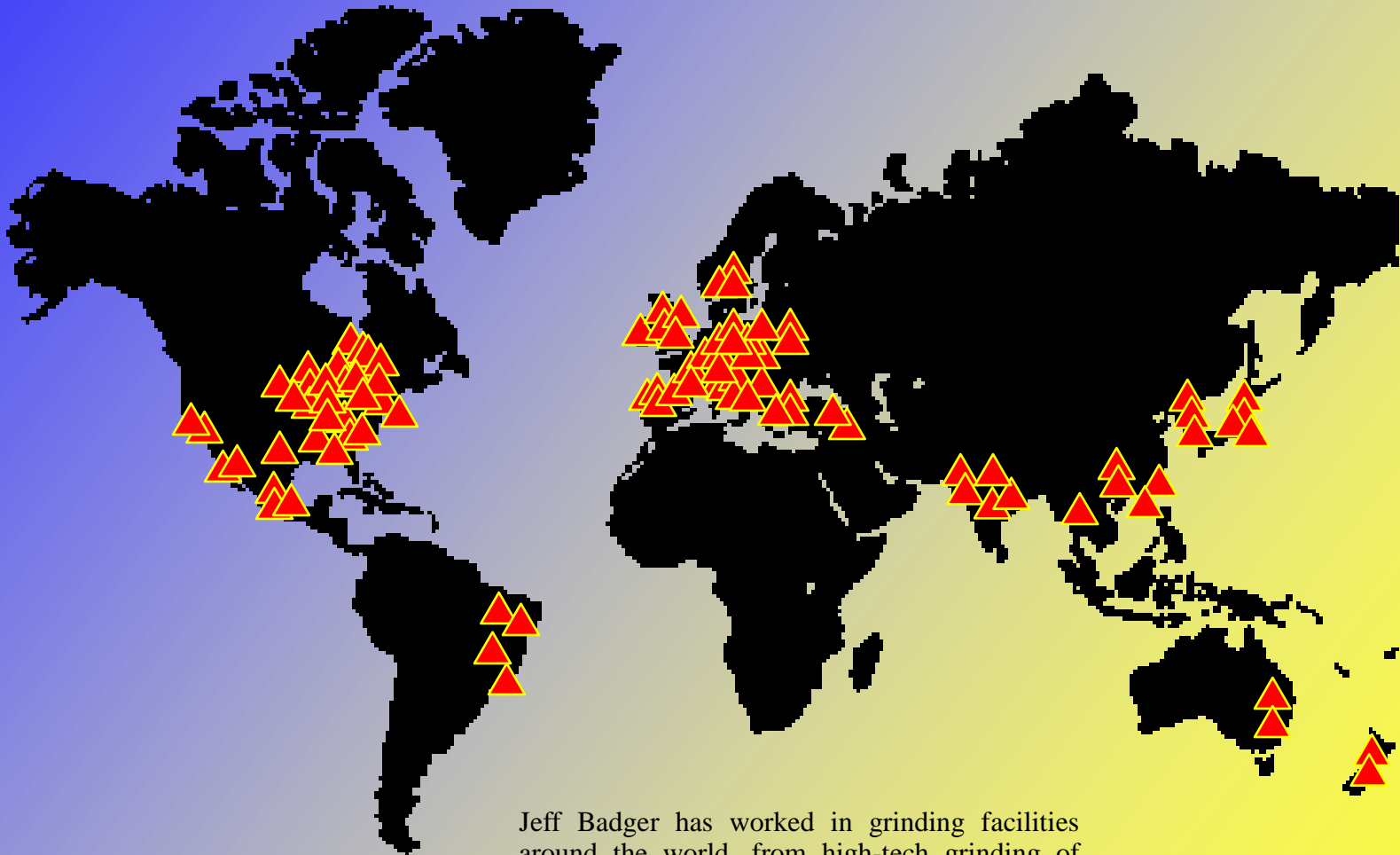
Includes: 1) Grindometer hard-wired power meter wired for near plug-&-play use, cables, data-logger, instruction book, Powersheet spreadsheet for creating graphs in Excel; 2) One day on-site or off-site technical assistance.

How to order

Visit www.TheGrindingDoc.com. Delivery usually within one week of order.

About *The Grinding Doc*

The Grinding Doc: Dr. Jeffrey Badger has a degrees in Mechanical Engineering from The University of Texas at Austin, Pennsylvania State University and Trinity College in Dublin, Ireland. He is known as “The Grinding Doc” from his question/answer column in *Cutting Tool Engineering*. He works independently as an expert consultant in grinding.



Jeff Badger has worked in grinding facilities around the world, from high-tech grinding of turbine-blades for jet-engines to high-production grinding of drill bits.

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