

*Looking for the most advanced offline roll profiling system?*

**Epac** *Delivers!*  
a Division of Harford Industries

*US Patent No. 6,820,347 B2*

*State-of-the-art technology.*

*Epac Series 3000's patented technology has delivered a smaller, lighter electronic roll measurement system that secures more information, is easier to use and delivers faster precision roll data than anything previously offered.*

*Benefit: Keep your mill in top condition with Epac's ability to deliver instant diagnostics on your entire line. Capture the data you need where you need to get it and when you need it. Easier. Faster. Smarter.*

*Simplify data acquisition for diagnostics.*

Diagnosing the source of problems such as *coil gauge buildup or ridges* can be a complex set of procedures. *Epac 3000's wireless mobility and compact size can simplify the task of gathering and downloading data for analysis.*

*Timing is everything when it comes to mill diagnostics. Rolls reflect what they're exposed to in the mill. Rolls need to be skated as soon as they are pulled from the stack to see anomalies being caused by problems in the mill. Those who wait until the temperature of a roll normalizes can miss the most critical data. As the temperature normalizes, the most important data may become cloudy or disappear altogether.*

*Don't wait until the roll gets back to ambient temperature to do the first skate. If you do, you will miss out on some of the most valuable information.*

*Benefit: Get the data you need when you need it and where you need it. Let Epac's lightweight compact design simplify your mill diagnostics.*

**Wireless transmission.**

*Epac's latest upgrade gives you totally wireless capability. Transmit and save multiple skates to one or more computers without the usual restrictions associated with saddle micrometers.*

*Benefit: You now have the freedom to skate one roll immediately after another, saving operator time. Get instant feedback and faster readings. Your shop gets more done in less time.*

**Made for Mobility.**

*The advantages of an offline measuring system are numerous, giving you the freedom to measure profile, diameter and temperature of rolls as soon as they are pulled from the stack, the flexibility of measuring critical aspects of rolls which do not have access to online calipers, and the ability to verify operator suppositions about rolls to keep your mill in top condition.*

*Benefit: Why confine your diagnostics and monitoring to one spot when you now have the capability of performing it wirelessly from any location?*

**Accuracy.**

*Precision, craftsmanship, and relentless pursuit of excellence have earned Epac Engineering the reputation for producing the world's finest offline precision measuring instruments.*

*Thirty five years of experience in designing and producing offline profiling systems go into every Epac system.*

*Benefit: Use Epac's proven reliability and its NIST traceable certification to help you meet and document your rigorous quality standards.*

**Rugged, Reliable, Shop Proven.**

*Built to withstand the rugged conditions of working mill environments, Epacs have a long tradition of providing trustworthy readings and low maintenance even in extremely harsh environments.*

***Benefit: Not only are Epac Series 3000s proving to be much more rugged needing significantly fewer repairs than previous saddle micrometers, but Epac Users are finding that their Epac Series 3000s hold their calibration much longer over time.***

**Ease of handling.**

***Epac's compact size and light weight make its ease of handling an operator's delight. Epac's work roll unit weighs eleven pounds. Its backup unit weighs fourteen pounds.***

***Benefit: As always, Epac's state-of-the-art technology puts the very latest advances to work for you, making your job easier, faster, and automatically quality controlled.***

**Quality Assurance.**

***Multiple databases can be developed easily and quickly to deliver the most pertinent information to all who need to access it. Roll shop and production people can both access the same data for their independent needs. Deliver accurate information to everyone desiring it, immediately.***

***Benefit: Optimize mill quality and customer satisfaction. Make decisions based on having the most pertinent information quickly available to all decision makers.***

**Improve your roll shop management.**

***Epac's sophisticated data acquisition and transfer helps users improve and document quality standards. Seamless networking with existing technology in the plant allows users to measure, transfer, and analyze data for true production roll shop management at its best!***

***Benefit: Let Epac assist you in implementing your ideal roll shop management system.***

## ***Some examples of how Epac Users are improving their performance:***

*Capitalizing on the technological advancements that make The Epac lighter, more compact:*

- ***To extend the campaign life of their rolls***
- ***To change rolls based on wear rather than tonnage***
- ***To compare roll manufacturers: good characteristics and shortcomings***
- ***To analyze wear characteristics by mill stand, by time or linear exposure, by stand position, by roll manufacturer***
- ***Profile issues on rolls are now much easier to diagnose because of the compact size and ease of handling.***

*Utilizing the temperature measurement aspects:*

- ***To assure that all points along the roll barrel are within/not within grinding temperature specs...and, as their quality assurance program dictates, they will have a permanent record of the thermal profile.***
- ***This record can be useful in the event that a particular roll has a problem. They may want to go back and verify that the roll was at the right temperature prior to grinding. The Epac system allows them to do that, with data automatically stored in its computer and, if they wish, transmitted to another database as well.***
- ***Troubleshooting. They are getting temperature data much faster after a roll change. If they want the rolls' thermal profile immediately, they can get it while the rolls are in front of the mill, and without separating the rolls.***
- ***Epac is helping them immediately determine if there are roll cooling problems.***
- ***The Epac documents more measurements at once than any single mobile source. Epac users report that their measurements are now more accurate, quicker, easier, and without human deviation or error. The hard copy of all data proves the job was done right, in a timely manner.***

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