Looking for the most advanced offline roll profiling system?

Epac Delivers!

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 more roll information on an entire line for instant diagnostics and continuous monitoring.

Accuracy.

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

Benefit: Thirty five years of experience in designing and producing offline profiling systems go into every Epac system. With a commitment to staying on the leading edge of innovation and delivering the very best in design and engineering, Harford Industries' engineers will see to it that ***Epac stays the best available choice in roll and sheet profiling systems for the long term.***

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.

<u>Made for Mobility.</u>

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 in any location?

<u>Quality Assurance</u>.

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.

<u>Rugged, Reliable, Shop Proven.</u>

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. All Epac Series 3000 tests are performed in real life roll shops, not in a laboratory setting with pristine conditions on new rolls.

Benefit: Not only are Epacs 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 due to their state-of-the-art chordal design that weighs less and has fewer moving parts.

Ease of handling.

Epac's compact size and light weight makes 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.

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.

Simplify data acquisition for diagnostics.

For example, 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.***

Benefit: Facilitate capturing the data you need where you need to get it and when you need it. Easier. Faster. Smarter.

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.***

- ***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.***

- ***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.***