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Are you going to MINExpo INTERNATIONAL® 2004?

Dear Subscriber,

We've started packing, and there are just a few more product samples to prepare for the trip. This is going to be a great show, and we hope you're as eager as we are to see the latest and greatest in the mining industry and to see how developments in this important field contribute to many facets of heavy construction.



The subject today is **Efficiency**. When you think of Efficiency, what comes to mind?

- **Reduced operating expenses?**
- **Increased automation?**
- **Eliminating unnecessary tasks and steps for equipment operators?**
- **Fewer repairs?**

Efficiency means all of these, and more. It means running your equipment at peak performance and getting maximum productivity every step of the way.

Helping our clients improve Efficiency is one of the things Control Products does best. When machines and their operators run like a

clock, it saves precious time and lots of money. If you are concerned with improving the Efficiency of your equipment applications, put CPI on your list of things to do.

Stop by our booth (#1761, North Hall) at MINExpo. Tell us your concerns and we'll discuss ways you can achieve the peak performance you're looking for. Bringing Efficiency to heavy equipment IS possible, and we'd like to show you how.

Also, if there's anything you'd like to talk about before MINExpo, just give us a call or [send an e-mail](#). We're here to help.

We hope to see you at the show!

Sincerely,

Mac Stuhler
Vice President
Control Products, Inc.

EFFICIENCY Solutions at MINExpo

Automated Excavator Improves Operator Efficiency, Increases Productivity



Creating an automated excavator involves proper selection of technology. According to a major manufacturer of excavator automation systems, one of the main complaints from the field is

that the external sensors used on the boom and stick are compromised by falling debris and the general wear and tear typical in the construction environment.

To solve that problem, CPI's [SL Series Sensors](#) and [Smart Cylinders](#) are now being specified for these intelligent machines. SL Series sensors have greatly improved the reliability of these systems, since the sensor resides completely and safely inside of the cylinder.



Operators of intelligent machines are much more productive than users of traditional equipment, and experience much less mental fatigue thanks to machine controlled handling of all precision and non-intuitive movements.

Equipping excavators with advanced control technology can:

- **Increase machine efficiency through motion profiling, "teach" functions, and envelope definition**
- **Reduce the required operator skill level, at a time when skilled operators are scarce**
- **Reduce wear and tear on the machine by smoothing all stops and starts**

[Click here](#) for some valuable information about automated excavation.

[Click here](#) for more details about deploying advanced hydraulic control.

And, the **Construction Industry Institute** has an in-depth look at the exciting productivity and performance enhancing impact that automation is having on excavating and earthmoving applications. [Read it here.](#)

Want to improve the Efficiency of heavy equipment? Let us know about it. <http://www.cpi-nj.com>

Mine Equipment Service Truck Improves Efficiency with the Flip of a Switch



CPI's waterproof switches are tremendous problem solvers for harsh duty applications. Used to control the pump on an oil dispensing system, the K1006 pictured here enables service personnel to deliver new oil to machinery quickly and efficiently - with lighter, less cumbersome hoses and reduced back-and-forth trips from pump

to machine. The switch's large actuation area provides a positive feel, even to a gloved hand. Since the switch is mounted at the delivery nozzle, the operator has precise control of oil flow right at the fill point. V-back mounting, coupled with rugged neoprene waterproof (not merely water resistant or splashproof) construction make the K1006 the ideal switch for improving Efficiency in this type of application.

There are ways to improve the Efficiency of virtually any operation. We'd like to help. <http://www.cpi-nj.com>

For a look at CPI's rugged, waterproof switches, [click here:](#)

Dozer Downtime Minimized Thanks to Brake Overheat Detection

When a major manufacturer of bulldozers came to us with a serious brake overheat problem, we knew it was a job for the X1 Series thermal switch. Design engineers found that some operators pushed machine braking systems to the point of overheating; in some cases necessitating an \$11,000 brake overhaul! Since many of the bulldozers were already in the field, the goal was to train operators (on-the-job) how to run the machines without overheating the brakes.



A quick-response thermal switch was needed to control an indicator light in the cab when the temperature of the cooling oil spiked, due to hard braking on a long grade, for example. This immediate feedback would alert operators to use the engine more for braking in this situation. The X1 Series is a rod and tube thermal switch with a response time of less than 5 seconds. And, since it is a switch (not a sensor), implementation was greatly simplified. Once the switch was utilized, the goal of reduced downtime and repair costs was achieved, greatly improving the Efficiency of the operation.

To view CPI's thermal switch lineup [click here](#).

Want to improve Efficiency and reduce repairs? See us at MINExpo or contact us anytime <http://www.cpi-nj.com>.

Handy Thermal Switch Reference CD available at MINExpo

Finding the right thermal switch for your application just got a lot easier. CPI has developed a comprehensive, easily searchable CD-ROM, designed with the component specifier in mind. Complete with specifications, drawings, and application information, the CPI Thermal Switch CD-ROM contains a wide variety of thermal switches (set points 0 - 1,850°F and a broad array of mounting/probe configurations). You're sure to find what you are looking for. Stop by our booth (#1761, North Hall) and pick one up. And it doesn't cost a thing.



An Invitation from Control Products

Come See Us at MINExpo INTERNATIONAL® 2004



We'll be at Booth 1761, North Hall, and we'd love to see you there. Take a look at our line of smart cylinders, cylinder sensors, waterproof switches, plus ultra high temp and low temp thermal switches. Bring Us Your Challenges! Talk with us about your special needs and applications. And remember to pick up your free copy of the CPI Thermal Switches CD-ROM.

What Do You Think?

Thank you for subscribing to SensAbility. We'd like to hear from you. Click here FEEDBACK@CPI-NJ.COM to e-mail your comments, suggestions, questions, or ideas.

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