

# RK Rubber Newsletter

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*Listen. Collaborate. Deliver.*

*We fix problems. Sounds simple... and it is when you choose the right partner.*

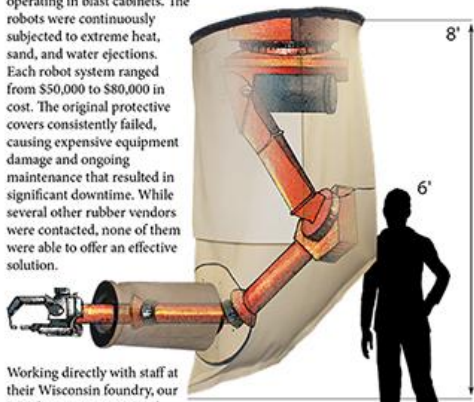


**CASE STUDY**  
**Robot Shrouds for Foundry Industry**

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At RK Rubber, we work collaboratively with our customers to develop creative, out-of-the-box solutions in order to protect their equipment while operating in extreme environments. This is especially true for the foundry industry, where we designed, tested, and manufactured shroud covers for our customer's robotic stations operating in blast cabinets. The robots were continuously subjected to extreme heat, sand, and water ejections. Each robot system ranged from \$50,000 to \$80,000 in cost. The original protective covers consistently failed, causing expensive equipment damage and ongoing maintenance that resulted in significant downtime. While several other rubber vendors were contacted, none of them were able to offer an effective solution.

operations unhindered while shielded from the elements. The initial tests were a resounding success and ultimately helped us determine the shroud's final shape and position. For the shroud's material, we selected pure gum rubber with a smooth finish; well-known for its abrasion resistance. Using our longitudinal splicing process, we fabricated shroud



Working directly with staff at their Wisconsin foundry, our initial prototype consisted of a blue tarp and duct tape that helped us test and determine the shroud's required shape. The idea was to protect the robots while they were suspended from the ceiling. Utilizing gravity, the prototype shroud draped underneath the robot as it performed its routine. The space created between the robot and shroud allowed the unit to continue

covers that featured dimensions of 8' high and 48" in diameter. Each shroud was produced in-house using our state-of-the-art lathe, vulcanizer, and grommet installer. From initial concept design and testing to final manufacturing, our



WITH A CUSTOM FABRICATED SHROUD FROM RK RUBBER, YOU TOO CAN PRACTICE "SAFE ROBOTING!"

team was able to develop a prototype cover within 3 weeks. We prevented, and in most cases eliminated, premature failure that had occurred while each robot performed its duty along the production line. Our customer was impressed by our creative thinking and quickly expanded the use of our shrouds in each of their foundry locations. They now order up to 40 shrouds per year and we continue to help them develop ways to protect other equipment, maintain production efficiency, and improve their bottom line.

*We're talking hundreds of thousands of \$\$\$ here.*

*This cartoon is no joke!*

*We use only the finest materials made in the U.S.A.*

*No cuttin' corners.*



**RK = SOLUTIONS**

*Give me a call. I'm ready to start working with you.*  
 Dell Gutknecht, General Manager



RK Rubber offers immediate phone quotes. Contact us today!  
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