



## On All Cylinders: Higher Capacity G-Force® Lightens 1000 lb Loads

**Industry:**  
Mining Equipment

**Product:**  
Cylinders

**The Problem:**  
Needed more control and maneuverability for handling large cylinders

**The Solution:**  
Gorbel® G-Force®



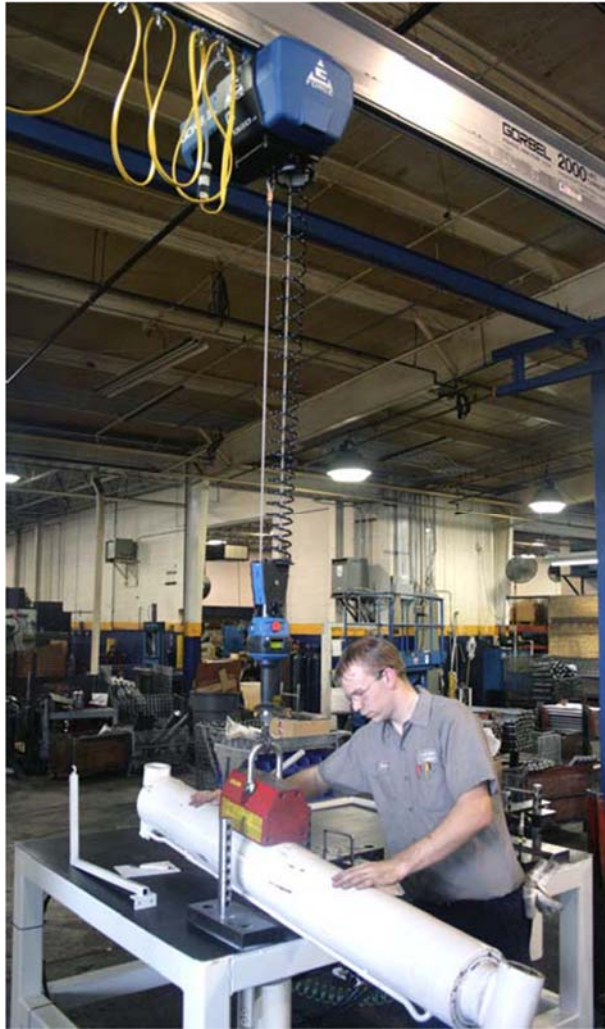
**“The float mode was definitely the selling point for us. The only question from us was; how soon can we have it?”**

As business grew for hydraulic cylinder manufacturer Best Metal Products, so did the size of their product. As a producer of cylinders for use in large cranes, mining equipment and man lifts, Best Metal Products saw demand for heavier duty cylinders increase. The result was their existing products nearly doubling in size and weight.

“We were regularly making cylinders that we topping out at around 600 pounds,” said Matt Malfroid, Quality & Training Supervisor for Best Metal Products. “Now we expanded our product offering to include cylinders that are 8 to 10 feet long, and they weigh more than 1,000 pounds.”

Part of the growing pains for the expanded product offering was handling the large cylinders.

“We just didn’t have a safe way to lift them,” said Malfroid. “It was all by man power, mostly using multiple people per lift. We were having back injuries, stress and strains of shoulders. Those are obviously things we want to avoid.”



The company had several chain hoists throughout the facility, but wanted a lifting device that gave operators more control and maneuverability when handling the large cylinders. When Nomax Solutions brought in a G-Force® for a demonstration with the company's work force, they found that the best solution was right in their hands.

"There was a definite 'wow factor' the first time we saw the G-Force®," said Malfroid. "Everyone who touched it was amazed with the ability to float such large parts. The float mode was definitely the selling point for us. The only question from us was; how soon can we have it?"

After the demonstration, Best Metal products purchased a 1320 pound capacity G-Force® Q model with Float Mode and a high capacity magnet to grip parts. The G-Force® was installed onto an existing Gorbels work station crane with a 2,000 pound capacity aluminum bridge.

Management was very pleased with how quickly workers adapted to the G-Force®. The employees were also very happy with the unit, which now allows any operator the ability to lift even the heaviest cylinder. "Control is the big thing," said one operator. "Once I lock onto the part with the magnet, I can lift it, rotate it or put it in float mode to position it onto the clamp exactly where it needs to be."

"They are using it everyday, which keeps them from lifting anything manually," said Malfroid. "Limiting what they lift by hand is the goal, and we've definitely achieved that so far. We're looking forward to getting a few more of these units for other work cells."