

Abbott Tool Takes on More Work with Toyoda

TOYODA

CHALLENGE

Abbott Tool Inc. of Toledo, OH, had been operating their business with hand-built, antiquated bridge mill machines for some time. Though they got the job done, they were cumbersome, and it was difficult to find replacement parts that worked with the design. When Abbott Tool anticipated an influx of work machining high precision glass molds, including windshield molds and press rings, they made the decision to upgrade their lineup. Primarily a job shop, it was imperative for Abbott to invest in a machine with versatility that could handle a range of work including stainless steel, iron and carbon steel. "As a job shop, we need to be ready for anything that comes our way. If it's out of our scope, that's a loss of potential income," said Karle Stange, Owner and President of Abbott Tool Inc.

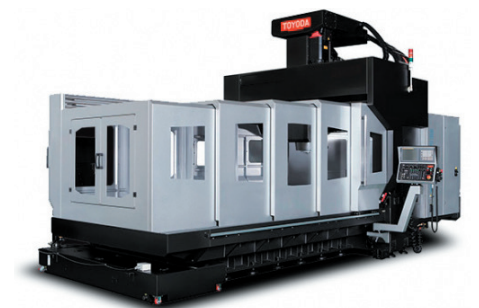
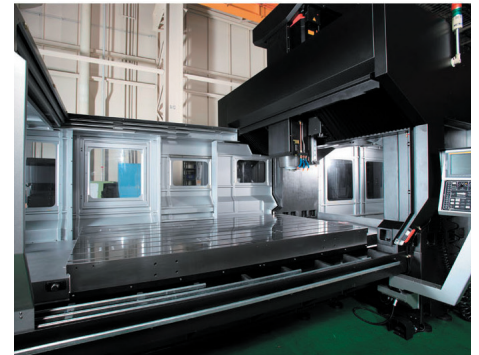
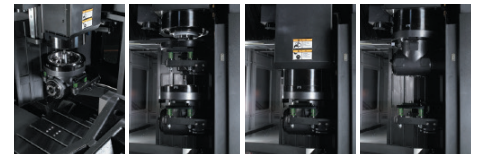
GOALS

- Increase capacity for challenging glass industry molds.
- Increase versatility to handle a range of work up to 120" x 60".
- Ensure reliability and service post-install.

SOLUTION

With their goals in mind, the Toyoda SB316YM Bridge Mill was a perfect fit for Abbott. Not only was it one of the only machines on the market that could handle the glass mold work, but it had the perfect footprint for their small shop. The right-angle head would allow for an all-in-one machining solution, as well as open up possibilities for other jobs. The SB316YM is a fixed -rail bridge machine designed for heavy cutting applications. It features roller guides, a hydraulic counterbalance system on the headstock, and a powerful spindle for cutting hard metals. The YM model has an extended Y-axis travel with five-face machining capabilities to allow for the machining of more complex workpieces. It also features automatic tool changes in vertical and horizontal orientations and automatic head change. Abbott was so impressed with the bridge mill, in fact, that they added a second machine shortly thereafter.

- SB316YM Bridge Mill (2)



SB316YM Bridge Mill (2)

OUTCOME

- ▶ **INCREASED EFFICIENCY**
Overall, Abbott Tool drastically increased efficiency by replacing the outdated machines with the faster, higher precision bridge mills.
- ▶ **INCREASED CAPACITY**
The new bridge mills also increased capacity so that Abbott could take on more high-volume work and get products to customers faster.
- ▶ **DECREASED MACHINING TIME BY 33%**
The automated features of the SB316YM reduced machining time for glass molds by 33%.
- ▶ **INCREASE IN CONTRACTS**
Having Toyoda machines on the floor has single-handedly delivered secured contracts for the tool shop.

Partner with Toyoda and find your solution.

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