





BIG DAISHOWA SEIKI CO LTD

EXi166





## BIG MEGA ER GRIP

BIG Daishowa Seiki, known as a world leader in tooling systems, has observed and visited many companies of various size for many years. We have learned from those experiences how the choice of tool holders affects production costs on the shop floor. When an inexpensive tool holder is selected based on a small cost saving, a waste in valuable time and money during production results in higher costs in the long term.

The four critical requirements for tool holders are:

- -Clamping force
- -Concentricity
- -Rigidity
- -Balance for high spindle speeds

By using a tool holder with excellent performance in these four areas, considerable cost reduction is achieved due to longer tool life and reduction of down-time due to tool changes. Also, improvements in machining quality, shorter production time, and longer machine tool life from less cutting vibration.

Below is an application for drilling into a steel work piece .590" deep using a .118" diameter carbide drill. 2,300 holes are made with the drill when using a tool holder with .00008" runout accuracy. However, only 800 holes can be drilled with a tool holder that has .0006" runout accuracy.

Comparing these hole-making costs at a shop that drills 350 holes per day for 20 working days per month, it is possible to save about \$280 each month.

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