

Compact Emergency Stop for Machine Tools Enidine Shock Absorber Application

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Situation Overview

A manufacturer of planers, planomillers and surface grinding machines in Japan was using a competitive shock absorber as an emergency stop on one of its planers. They needed a smaller, more economical solution for a new planer that was being designed. A prototype of the planer was developed. The machine used numerical controls to plane the contour of a work piece. The competitor's unit was too long and extended beyond the machine edge.

Product Solution

The ITT Enidine Inc. distributor recommended a PM 2150. The shock absorber fit within the required envelope and provided the emergency stop protection needed. Two shock absorbers were installed on each machine.

The machine manufacturer was very satisfied with the PM 2150 solution. It fit within the required envelope and was a more cost effective solution than that of the competitor.

Project Results

The manufacturer is currently evaluating a high-speed version of this planer. If this design is approved, then the PM 2150 will become a standard component on that machine as well. Machine tool manufacturers (SIC 5084) are developing smaller machines with increased throughput to meet today's productivity demands. Shock absorbers are becoming an integral part of this productivity improvement. As machines run faster and longer, the concern for safety and the need for emergency stops becomes even more critical than before, providing a great opportunity for the sale of shock absorbers to this market.

