



ALPINE
AUTOMATION INC.

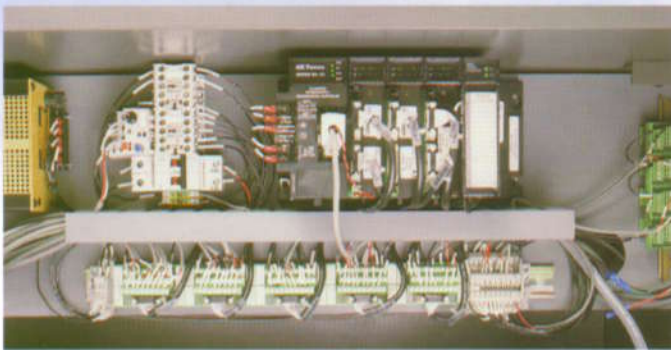
HYDRODYNAMIC BARFEED SYSTEMS

A stylized graphic of the American flag, showing the stars and stripes, positioned at the bottom of the advertisement.

100% DESIGNED AND MANUFACTURED IN THE USA

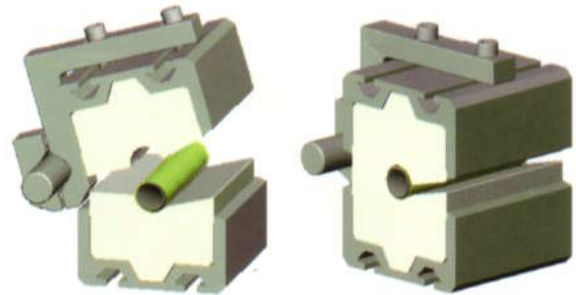
TORNADO

The Tornado is a magazine style, hydrodynamic automatic bar feeder for machine tools. It can feed random lengths of up to 12 feet long. The bars are loaded on a rack on one side of the bar feeder then automatically loaded into the lathe to provide continuous, unmanned operation. The Tornado has been designed to work on sliding headstock lathes. Remnant retract is standard. Headstock synchronization is available to allow compatibility with fast moving, sliding headstock machines and prevent bending bars.

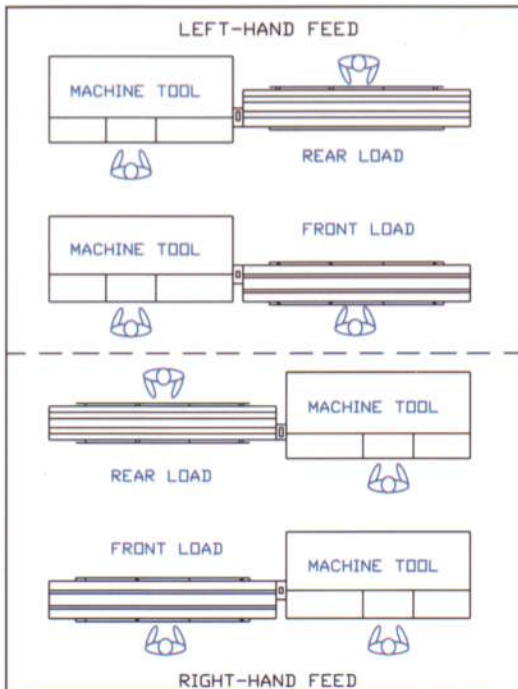


Alpine Automation has utilized the reliability of GE Fanuc PLC's to control the bar feeder and interface with the lathe. Diagnostics are incorporated in all aspects of bar feeder control to ensure long running, trouble free operation.

The bar feeder is operated using a hand held controller with a 2 line display to constantly inform the operator of bar feeder status. Operation is greatly simplified as the controller guides the operator through all functions.



The channel is filled with oil to create a hydrodynamic effect which suspends the bar in the channel as it rotates. This provides quiet, vibration-free operation.



Front and rear loading available for left and right feed lathes.

Tornado Features

- 30% less floor space when compared to conventional barfeeders
- Smallest footprint of any 12 ft barfeeder – only 13 feet long
- Includes remnant retract as a standard feature
- Automatic bar length detection and positioning is standard
- Available with headstock synchronization for use with Swiss style sliding headstock lathes
- Loads and feeds random lengths of 12 foot bar stock automatically
- Loads bar diameters from 5mm to 42mm
- Quick-change feed channels – only 5 minutes
- **Dual pusher system reduces overall barfeeder length**