

ABSTRACT**AUTOMATED BAR BENDER**

An automated bar bending system with a bar bending unit for bending bars to a predetermined angle, an in-feeding system for receiving pre-cut bars for transferring one or more bars to the bar bending system, and an unloading system for unloading shaped bars from the bar bending system to a prescribed position at a prescribed location. The bending unit contains a former assembly, a drive pin assembly and a backup clamp assembly. The bar bending unit may be provided to a machine controller and actuating mechanisms such that different size bars may be automatically shaped to a prescribed angle according to user specification. In the preferred embodiment, the former assembly includes a series of concentric former rings mounted within a former housing. Each of the rings is provided with an actuating mechanism for moving it between a standby position and a forming position.

FIGURE 2