

**Automatic Concrete Pier Drill System**

Traylor Brothers, Inc., an Evansville, Indiana, contractor contacted E-Z DRILL, INC. about designing and building a special drill system for a project in Houston, Texas. The system had to be able to simultaneously drill four, five foot deep vertical holes into the top of an existing concrete pier column after the pier cap was removed. The holes to be drilled were 1\_ inches in diameter and were spaced in an 18 inch square pattern. After the holes were drilled, epoxy cartridges and 10 foot long, 1\_ inch diameter steel bars were to be inserted into the holes. Traylor Brothers, Inc. wanted the same unit to also rotate the bars down into the holes.

A standard E-Z DRILL pneumatic drill system was extended to drill the deep holes, and to place the 10 foot bars into them. Four of these modified drill systems were then mounted in a steel framework that could be moved with a crane. A work platform/template was designed to work in conjunction with the drill system. A crane was used to lift the work platform into place on top of the pier column where it was secured. This was followed by the framework containing the drill system. After drilling the holes, the operator would remove the drill bits from the drills. place the 10 foot bars in the holes, and activate the drills to rotate the bars into place.

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