



## Pipe or Tube End Forming and Calibration

### PIPE END EXPANDERS

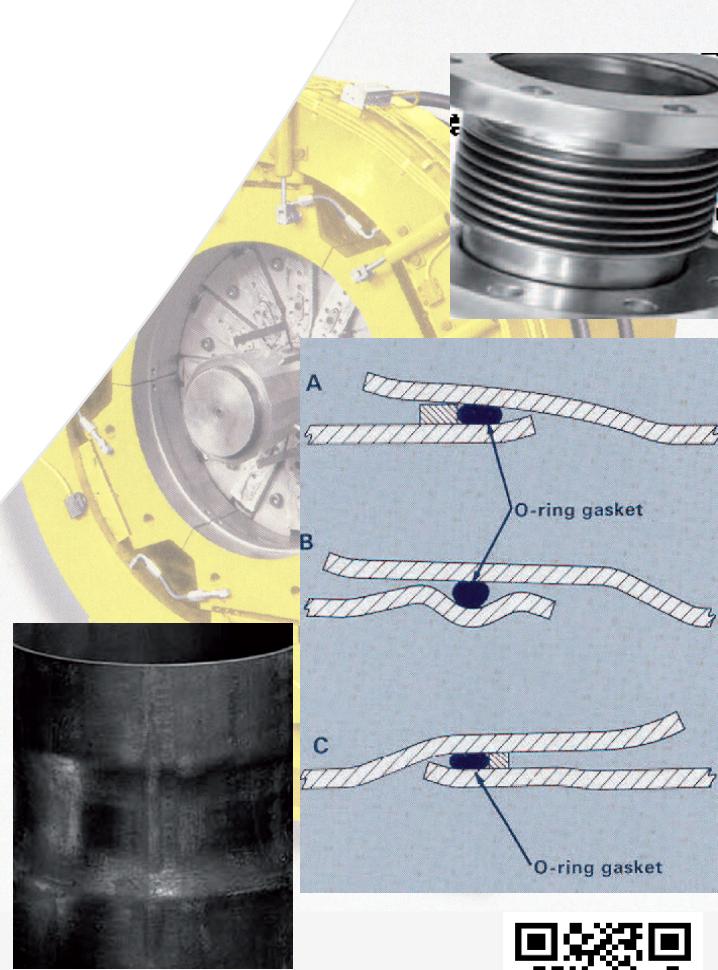
Grotnes Expanders are widely used to form and size pipes and tubes of all dimensions in a wide variety of industries, for instance, HSAW pipes for transporting water. Using Expanders in the production process provides a perfect fit for pipe or tube ends. Calibrating pipe ends makes it easier to weld two pipes together.

Grotnes Expanders can be configured with collapsible outer dies. These Expanders sizes pipe ends with a wide range of diameters. Different diameters can be expanded by using different tooling and by lowering or lifting the expander table and head. Extra features can include the easy tool change through rotation of the expander head.



### FEATURES

- Wide range of sizes and configurations
- Position control system
- Gauge mode
- User friendly touch screen interface
- Automatic lubrication system
- Optional collapsible outer dies
- Optional heated dies and water-cooled jaws





# EXPANDING

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### APPLICATIONS

Grotnes Expanders size pipe ends, metal bellows, slip joints and pipe fittings. These Expanders form a cylindrical or spherical pipe connection, for a seal or formed thread.

Sizing and forming pipe and tube (ends) is necessary in almost every industry, especially in the nuclear-, automotive-, pipe-, and aerospace industry where required tolerances are important and can be achieved by Grotnes equipment.



### BENEFITS

- Expansion is a highly accurate and repeatable forming process with a shorter cycle time than comparable forming techniques.
- Grotnes Expanders make it possible to size and form profiles in a wide range of materials.
- By using an Expander less material is needed and the machining time is dramatically reduced, also there is virtually no limit to the materials that can be formed or sized.

