



# Autoclave Systems

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## Autoclave Rebuilds and Upgrades

### Rebuilds & Upgrades Optimize Your Investment

McGill AirPressure offers complete rebuild service and upgrades for all types of autoclaves. We provide corrosion repair, vessel enlargement, heat source modification, and the addition of auxiliary systems. This work can be performed at our plant or on site under our supervision.

### Door Rebuilds

The door is the largest single moving part of an autoclave and also one of the most expensive parts to fabricate.

McGill AirPressure rebuilds autoclave doors to like-new condition to provide years of additional service. Rebuilding an existing door can be done for much less than the cost of a replacement door.

Most rebuilds consist of repairing the worn or damaged door, vessel locking lugs and lock rings, and repairing or replacing worn wedges. We update door operating cylinders, mechanisms, and controls as part of the rebuild. The rebuild can occur either at our plant or at your site.

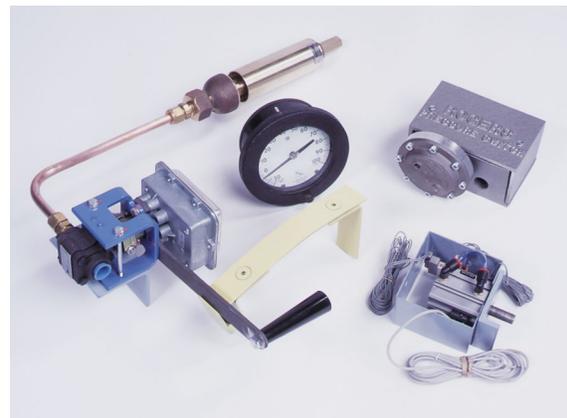
### Safety Systems

Operating equipment that uses high pressures and temperatures demands proper safety procedures and equipment.

This is especially true of pressure vessels with quick-opening doors: autoclaves, sterilizers, reactors, and vulcanizers. Opening the door of a pressure vessel can cause injuries to workers, damage to equipment, and downtime.



McGill AirPressure has the trained personnel and equipment, such as this large horizontal boring machine, to perform the precision machining required for autoclave door rebuilds.



Our comprehensive safety system to prevent accidental door opening during autoclave pressurization includes the manual lock safety, the electro-pneumatic lock pin, zero-pressure switch, warning whistle, and pressure gauge.

## Electro-Pneumatic Lock

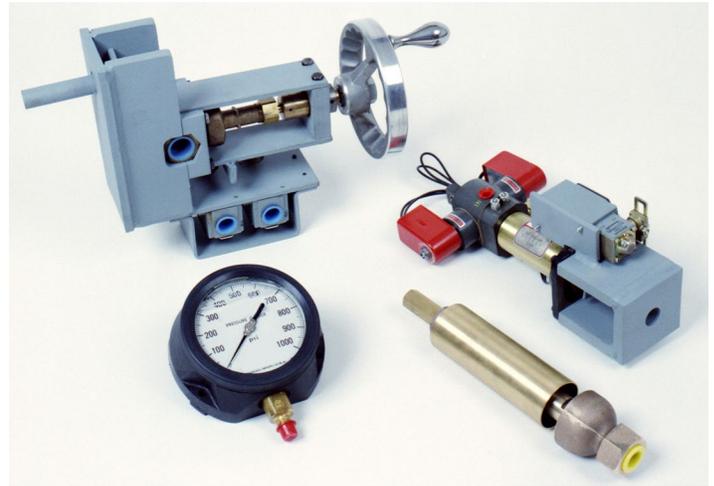
The electro-pneumatic lock safety consists of an air cylinder, solenoid valve, limit switch, lock pin, and dual zero-pressure switch. This second line of defense is designed for use with the manual lock, receiving signals from the manual lever's limit switches. The electro-pneumatic pin is engaged only when the manual lever's closed limit switch has been tripped and the zero-pressure switch indicates that the vessel has been depressurized.

## Vacuum Systems

McGill AirPressure provides free-standing, rack-mounted vacuum systems including vacuum pumps, source lines, sense lines, resin traps, valves, and gauges. These systems are easier to maintain and can be more conveniently located than most existing autoclave-mounted systems.

We can rebuild these systems using your existing components, dependent upon their condition, using new components, or using a combination of the two.

Smaller systems can be packaged on a single skid. Larger systems can be packaged on two skids with the vacuum pumps separate.



*Also available is our original door safety system consisting of a manual lock, electro-pneumatic lock pin, warning whistle, and pressure gauge.*



*Whether it involves using existing components or new ones, our vacuum system rebuilds and upgrades are performed in the most cost-effective manner for our customers.*



*McGill AirPressure has a staff of expert service technicians available to install our safety systems quickly and correctly.*