



Air Driven Hydraulic Intensifier Cuts Costs

Challenge:

A food packaging company needed to generate large forces at the end of stroke in one of their applications to provide a tight seal. Their existing machine design required them to provide pressurized hydraulic fluid by pumping the fluid into a tank that stored the pressurized fluid until it was needed. This resulted in a costly hydraulic circuit that required a significant amount of floor space.

Solution:

To solve this problem, Bimba developed an air/oil cylinder intensifier. Using an integral hydraulic reservoir with a 2" bore cylinder, this design generated over 6000 lbs of force to intensify the hydraulic pressure over the last inch of stroke. In addition, the compact design proved to be cost effective, taking up less floor space than existing applications.



Benefits:

- Eliminates external hydraulic tanks and pumps, which saves \$500-\$1000 per system.
- Integral hydraulic reservoir eliminates the need for a larger compressor to achieve higher pressures.
- Compact design cuts down on floor space.

Other Applications:

- Conveyors
- Lift Tables
- Presses
- Heat Seal Press
- Joining
- Punching
- Marking
- Coining

