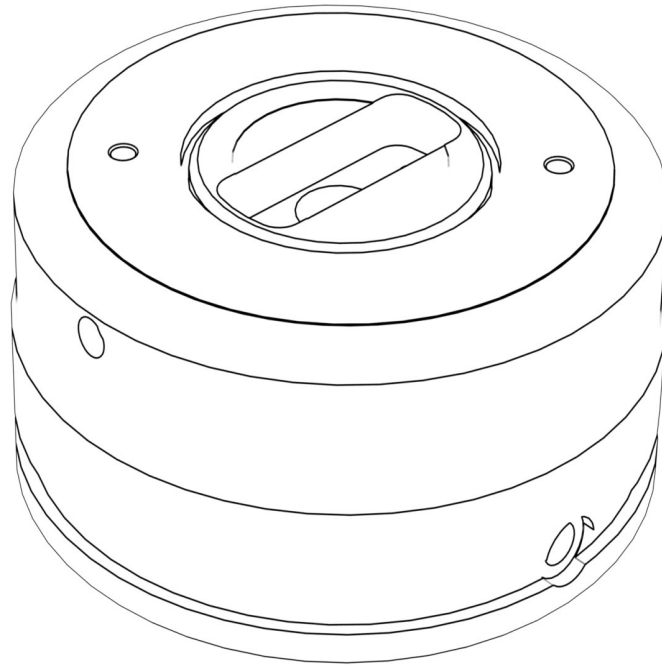


TIRE MANUFACTURING

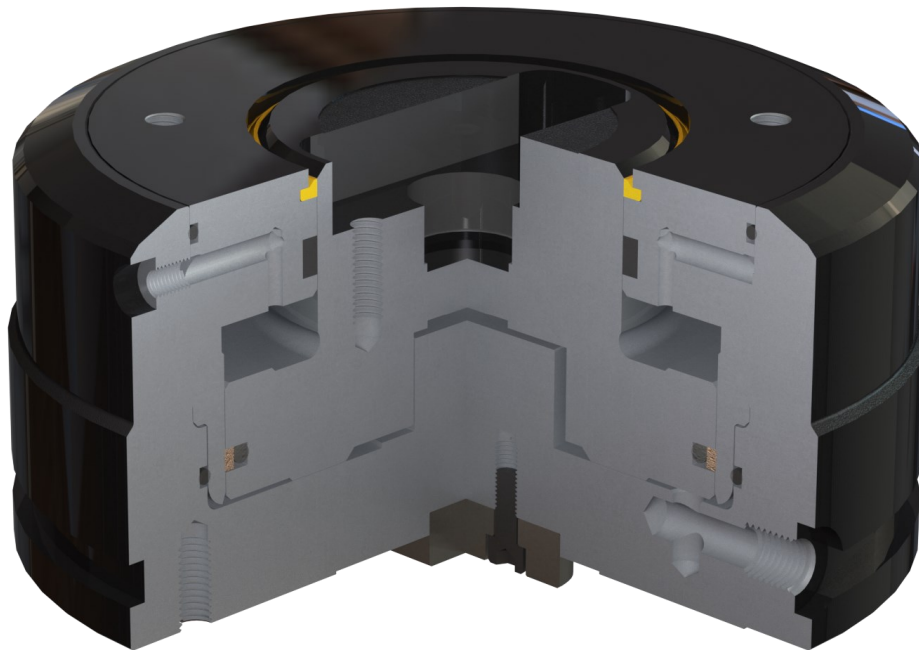
Hydraulic Pancake Cylinder for Tire Press



Hydraulic Pancake Cylinder for Tire Press

Durable and Cost Effective OEM Replacement

This cylinder was developed to meet the needs of the tire press industry. The existing OEM cylinder was wearing out prematurely and incurring high production failure costs due its inability to maintain required mold locking pressures.



IMPROVED WEAR SURFACES
<p>Challenge Improve the quality and durability of wear surfaces to improve seal life and prevent material surface failure.</p>
<p>Innovation Nitride surface hardening to key surfaces that are under extreme loads.</p>
<p>Benefit Cylinder body and piston/rod components will not deteriorate from high force contact.</p>

DROP IN REPLACEMENT
<p>Challenge OEM replacement cylinders were too expensive and did not meet customers performance expectations.</p>
<p>Innovation The cylinder was designed to drop-in with added features such as long life wear strips.</p>
<p>Benefit Longer seal and component life. Longer time between rebuilds.</p>

REDUCED DOWNTIME
<p>Challenge Existing seals were failing from misalignment and poor quality.</p>
<p>Innovation Seals were redesigned along with wear strips being introduced to improve side load resistance.</p>
<p>Benefit This greatly improved the life and total cost of ownership of the cylinder running under adverse conditions.</p>