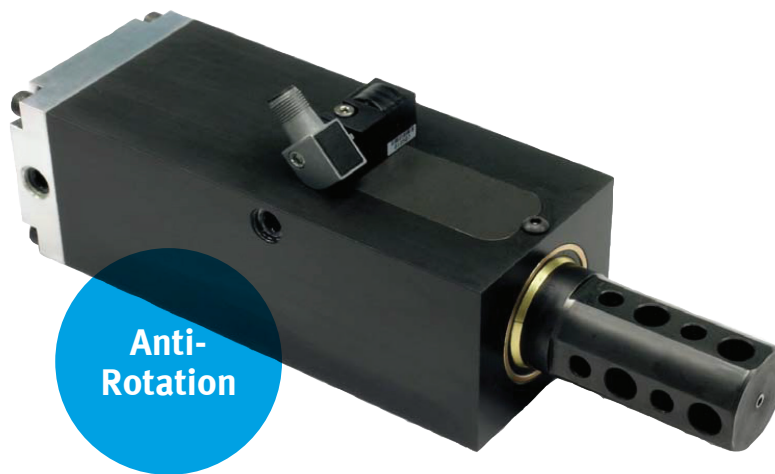


# Automotive Locating PIN Cylinders



## Highlights

- High load capacity in a small size
- Super compact short-stroke units
- A range from single pin to multiple pin capable units
- Super narrow straight pin units

## The Zaytran LSA Approach

First developed in 1996 a ceramic bearing paired with an iron nitrited hardened shaft to provide minimal deflection. For anti-rotation, splines are used for long stroke LSAs while nitrited slides are used for short stroke.

## Rigid, Non-Rotating

Less than 0.0050" (0.127mm) of deflection will be seen at the pin including the offset. Performance in the field has been confirmed since 1996 and backed by brutal 3,000,000 cycle tests of each model.

## No Maintenance

All LSA models are lubricated for life. In addition, the weld immune iron nitride shaft treatment combined with the ultimate rod scraper assures operation in the toughest automotive environments.

## Easy To Apply

With the smallest size in the industry LSAs are easy to fit into any application. All mounting surfaces comply with Auto/Steel component standards.

## Life of Tool Guarantee

With application sign-off all ZAYTRAN LSA Non-Rotating locating cylinders are guaranteed for the life of the tool.

# Automotive Locating PIN Cylinders

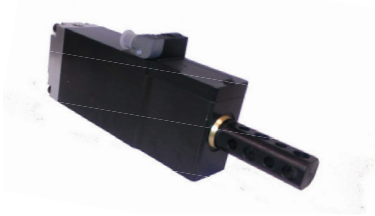
## ZAYTRAN LSA-73-S



### Optimal for single straight pin applications

Stroke: 25mm or 50mm  
Max. Pressure: 8.2 bar (120 psi)  
Actuation: Pneumatic  
Extend Force @ 4.1 bar (60 psi): 86.2kg (240 lbs.)  
Retract Force @ 4.1 bar (60 psi): 72.6kg (193 lbs.)  
Assembly Weight: 2.03kg (4.49 lbs.)

## ZAYTRAN LSA-73-L



### Suitable for L-blocks and off-set load single pin applications

Stroke: 25mm or 50mm  
Max. Pressure: 8.2 bar (120 psi)  
Actuation: Pneumatic  
Extend Force @ 4.1 bar (60 psi): 86.2kg (240 lbs.)  
Retract Force @ 4.1 bar (60 psi): 72.6kg (193 lbs.)  
Assembly Weight: 2.27kg (5.00 lbs.)

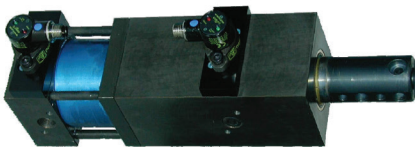
## ZAYTRAN LSA-85



### Short stroke, compact design, and multiple locating device capable

Stroke: 25mm or 50mm  
Max. Pressure: 8.2 bar (120 psi)  
Actuation: Pneumatic  
Extend Force @ 4.1 bar (60 psi): 161.4kg (356 lbs.)  
Retract Force @ 4.1 bar (60 psi): 113.4kg (250 lbs.)  
Assembly Weight: 4kg (8.8 lbs.)

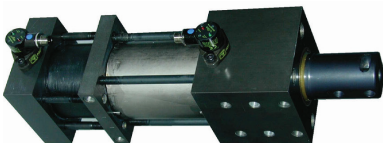
## ZAYTRAN LSA-80



### For use with L-blocks, off-set loads, long strokes, and multiple locating devices

Stroke: 25, 50, 75 or 100mm  
Max. Pressure: 35 bar (500 psi)  
Actuation: Pneumatic  
Extend Force @ 4.1 bar (60 psi): 161.4kg (356 lbs.)  
Retract Force @ 4.1 bar (60 psi): 113.4kg (250 lbs.)  
Assembly Weight: 6.5kg (14.3 lbs.) – 25/50mm Stroke  
8.0kg (17.6 lbs.) – 75/100mm Stroke

## ZAYTRAN LSA-100



### Ultra heavy loads with long strong and multi locating device capable

Stroke: 25, 50, 75, 100, 125, 150, 175 and 200mm  
Max. Pressure: 68 bar (1000 psi)  
Actuation: Pneumatic or Hydraulic  
Extend Force @ 4.1 bar (60 psi): 227.3kg (500 lbs.)  
Retract Force @ 4.1 bar (60 psi): 140.9kg (310 lbs.)  
Assembly Weight: 12.7kg (28.0 lbs.) – 25/50mm Stroke  
15.6kg (34.5 lbs.) – 75/100mm Stroke  
19.8kg (43.8 lbs.) – 125/150mm Stroke  
25.8kg (56.9 lbs.) – 175/200mm Stroke

All LSAs incorporate RapStop™ technology which replaces external stops and RAP couplings maintaining Z-Axis accuracy to  $\pm 0.050$ mm.