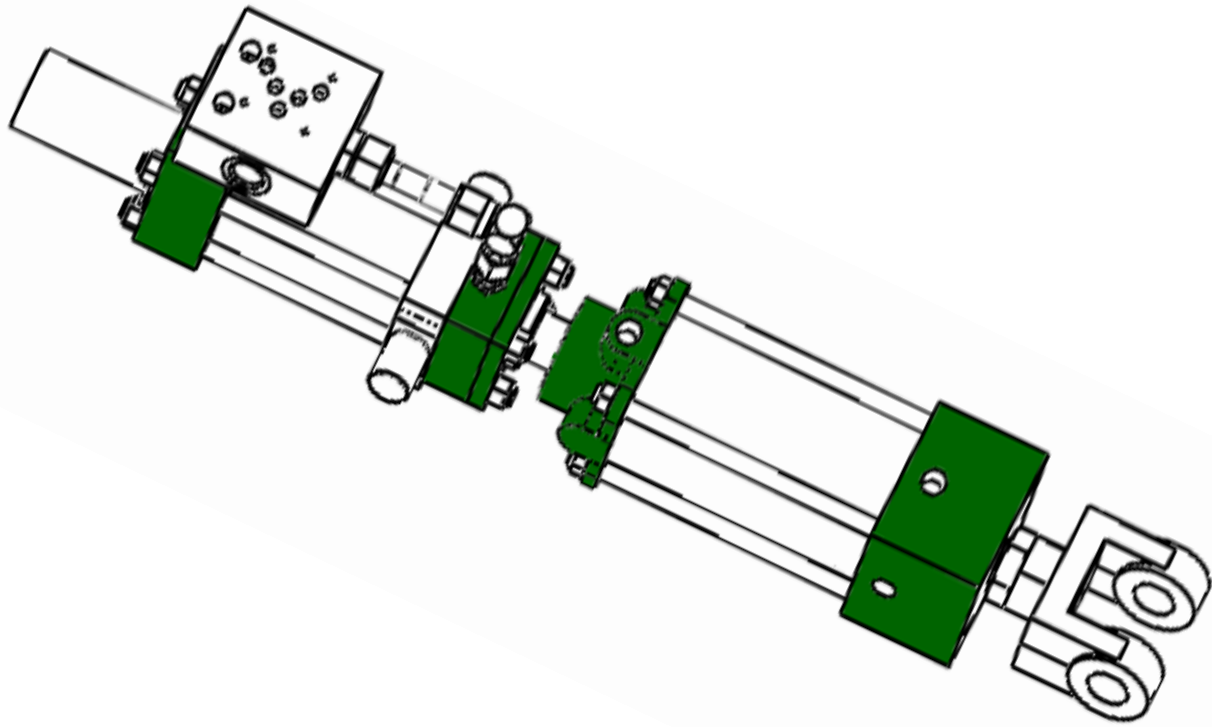


## WOOD INDUSTRY

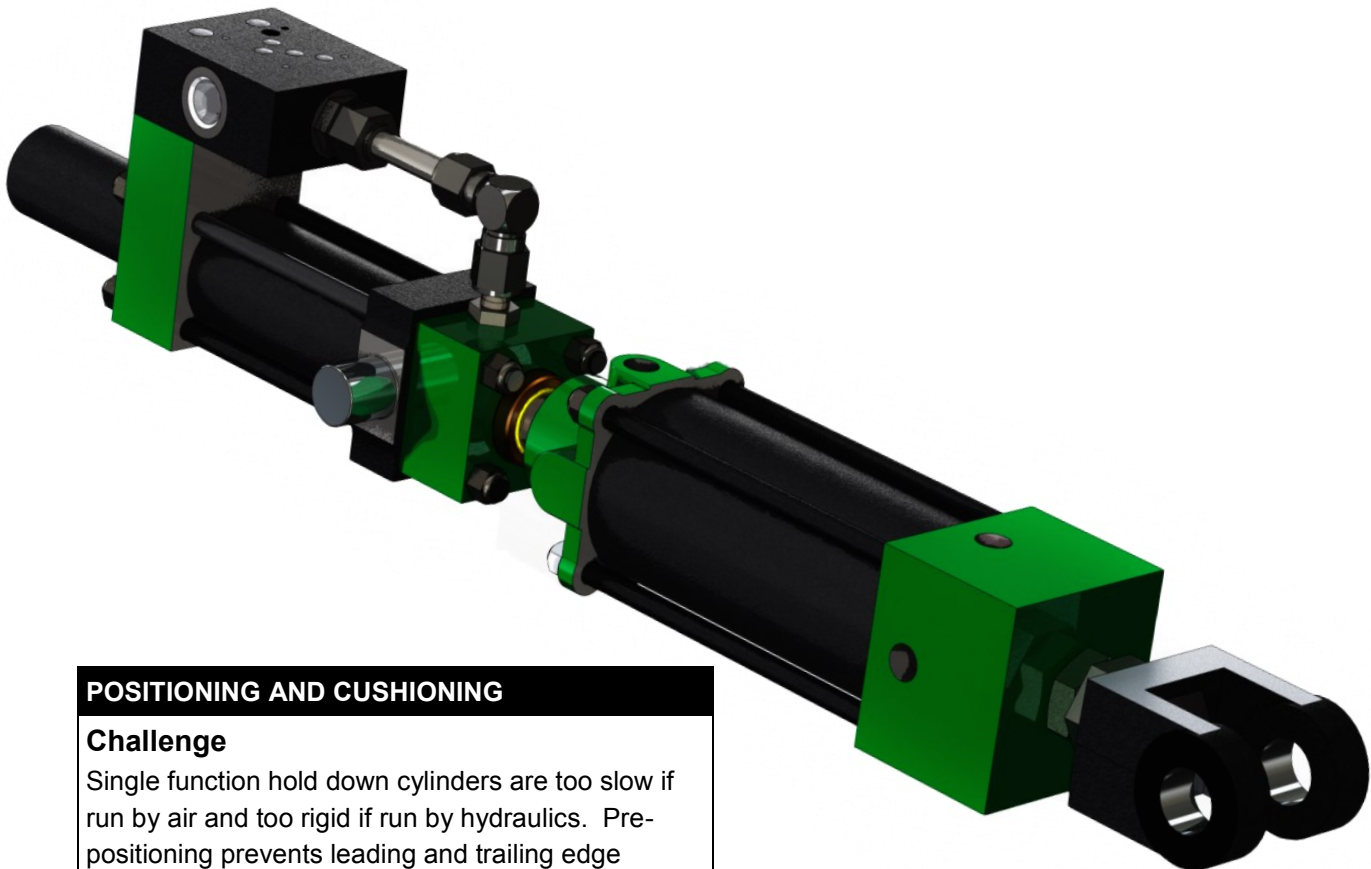
### Pre-Positioning Hold Down Cylinder with Compliance



## Pre-Positioning Hold Down Cylinder with Compliance

### Increase Production Yield with Higher Positioning Accuracy

This combination cylinder provides fast and accurate pre-positioning with a variable hold down force. Pre-positioning reduces the time for the hold down mechanism to get into position, limits over extension and allows for varied hold down force.



#### POSITIONING AND CUSHIONING

**Challenge**

Single function hold down cylinders are too slow if run by air and too rigid if run by hydraulics. Pre-positioning prevents leading and trailing edge product damage due to over extension as well as machine damage in the event of product reversal.

**Innovation**

Royal created a hydraulic positioner/air combination cylinder with internal pneumatic cushioning.

**Benefit**

Pre-positioning reduces setting time and the pneumatic cylinder section provides a variable hold down force. This greatly reduces product edge damage and allows for product reversal through the saws without machine damage.

#### LONGER RUNNING LIFE

**Challenge**

Heavy side load causing premature wear.

**Innovation**

Air cylinder portion is designed to withstand high loads. Cylinder is fitted with extra cushioning, bumpers and a modified gland.

**Benefit**

Longer life with consistent response and force settings.