

# LLLU:

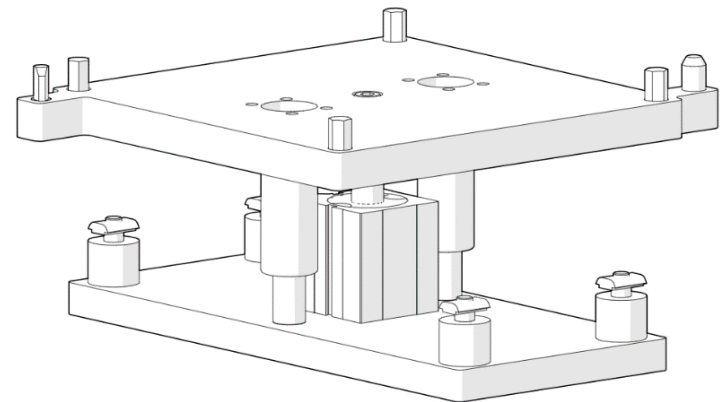
## Low-Profile Lift Locate Unit

### The Device:

Low-Profile Lift and Locate Unit (LLLU) offers vertical lift positioning in a small footprint, and it is suitable for applications that require repeatable, positional accuracy within  $\pm 0.05\text{mm}$ . Additional fit options are available on request for lower tolerance applications. The low-profile design allows the LLLU to be used in situations that have limited clearance below the conveyor.

### Basic Order of Operation:

1. Pallet is conveyed to device
2. Pallet is stopped directly over device by stop (not included)
3. Lift actuates and rises, with the top plate pins engaging the Pallet's locating bushings
4. Lift runs to end of stroke
5. Operations completed to work piece
6. Lift deactivates and lowers, disengaging from pallet
7. Pallet Stop drops
8. Pallet is conveyed out of work area



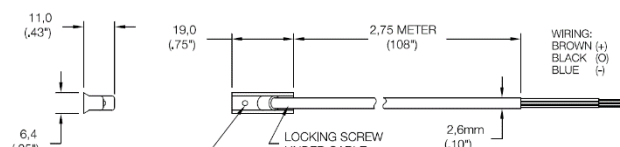
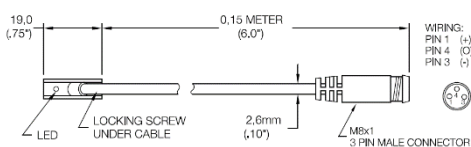
### Part Number: LLLU-(A)-(B)-(C)

- A** = Pallet Width Range 160mm to 400mm  
**B** = Pallet Length Range 160mm to 400mm  
**C** = S-standard precision pins or P-high precision pins

### Technical Specifications

Lift range:	Fixed 1.5mm above belt
Lift cylinder bore:	40mm
Lift capacity:	150 Lbs. @ 80 psi.
Pallet length range:	160mm to 400mm in 1mm increments
Pallet width range:	160mm to 400mm in 1mm increments
Pneumatic Ports:	G1/8

### Recommended Cylinder Sensor (Manufacturer: Nason):



SCP/P-00770 = Electronic Reed Switch, M8x1 3-Pin Male, PNP

SR/P-00771 = 5m Long M8 Female Locking Connector for SKP/SCP

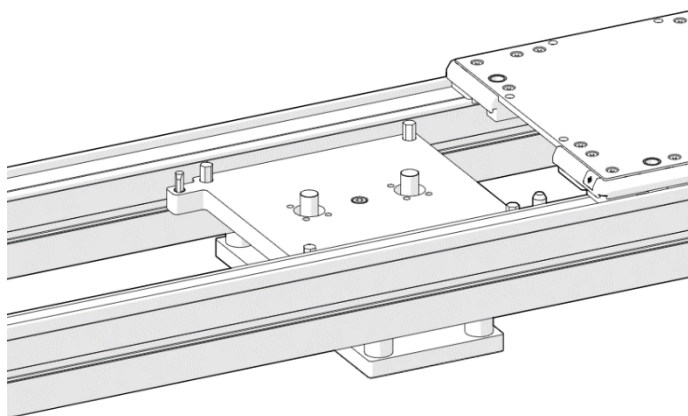


Figure 1: Lift ready to receive

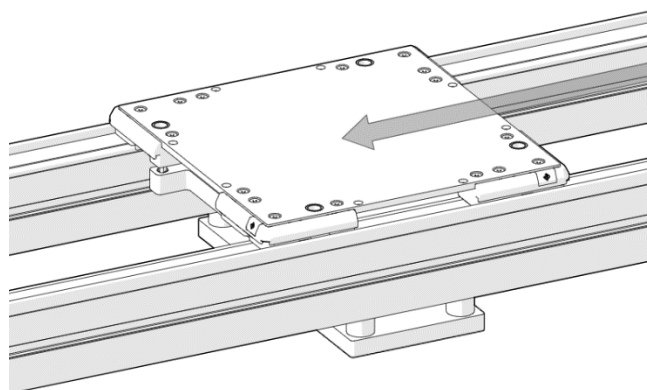


Figure 2: Lift with pallet in position  
 (Note: pallet stop not included)

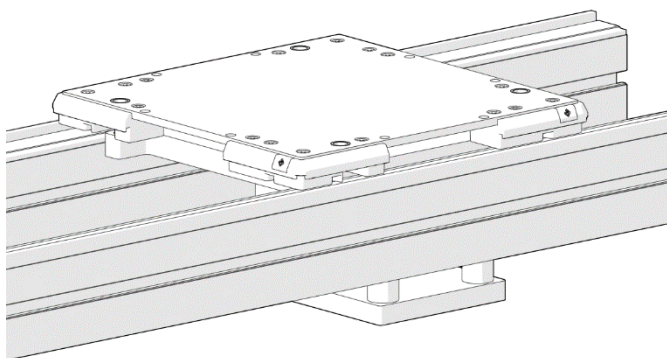


Figure 3: Lift extended, ready for processing

\*Note: Due to low profile lift, pallet does not appear to be raised in image

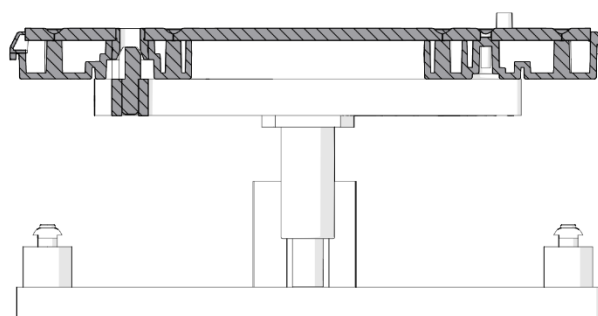


Figure 4: Detail showing pin engagement and pallet support

#### Recommended Pneumatic Schematic:

\*Fittings and Valves not included

