

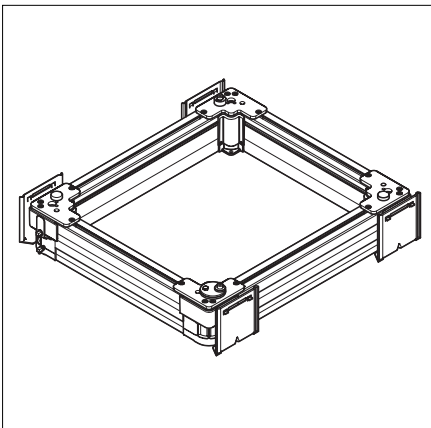
Lift-Position Modules

## Section 7–Lift-Position Modules

TS4plus Lift-Position Units precisely position the workpiece pallet for various manufacturing processes.

The PE4 uses pneumatic cylinders to raise the pallet 18mm above the moving roller chain surface.

Positioning pins and synchronization shafts provide positioning accuracy of up to  $\pm 0.125\text{mm}$ .



### **PE4**

*Lift-Position Units*

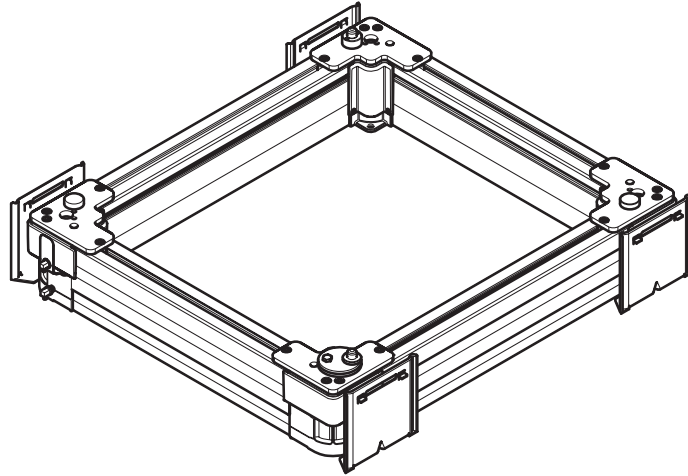
7-2 to 7-3

Lift-Position Modules

# Lift-Position Units

## Model PE4

The PE4 Lift-Position Unit accurately positions a workpiece pallet by lifting it vertically off a conveyor, isolating it from the moving roller chain. Pallet positioning repeatability is up to  $\pm 0.125$  mm when station mounted (attached to separate leg posts or a machine base) and anchored to the floor. The PE4 mounts directly to ST4 conveyor sections or a BS4 transverse conveyor module.



The PE4 raises and lowers pallets with four double acting lift cylinders. Uniform lift is maintained through a series of rack and pinion gears between the lift cylinders. The PE4 lifts the pallet 18 mm above the roller chain. This reduces operator risk by minimizing potential pinch points between the pallet and the conveyor line.

Two 12 mm proximity switches can be used to sense the upper and lower positions of the PE4. Two proximity switch mounting brackets and exciter elements are included. VE4-S cushioned stop gates must be used at all PE4 locations to stop pallets on the leading edge. Stop gates and proximity switches are not included but are available separately (see Section 7).

The PE4 uses standard 8mm pushlock pneumatic connections and requires a minimum pressure of 4 bar (58 psi) of filtered, oiled or unoled, compressed air. All required mounting hardware is included.

### Ordering Information for Lift Transfer Unit PE4

Specify part number, then select from the options below	Your Choices are:	Part Number <b>3842 998 067</b>
		Your selection:
Mounting Location	ST4-S: Mainline Conveyor BS4-S: Transverse Conveyor	_____
Pallet width (B <sub>wT</sub> )	See Table 6-3	_____ mm
Pallet length (L <sub>wT</sub> )	See Table 6-3	_____ mm

### PE4 Available Sizes

		Width (B <sub>wT</sub> )				
		443	643	843	1043	1243
Length (L <sub>wT</sub> )	443	•	•	•	•	•
	643	•	•	•	•	•
	843	•	•	•	•	•
	1043	•	•	•	•	•
	1243	•	•	•	•	•

Table 6-3

Lift-Position Modules

**Technical Data for PE4**

Cylinder Bore	=	63 mm
Cylinder Stroke	=	33 mm
Operating Pressure	=	4–6 bar (58–87 psi)
Lift Above Chain	=	18 mm
Repeatability	=	±0.125 mm
Max. allowable applied force	=	1100N (incl. WT4 payload)
Air Fittings:	=	8mm pushlock (5/32")

**Dimensional Data for PE4**

