



VULCAN MACHINERY CORP.

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Engineering Makes The Difference™

**PNEUMATIC DISCHARGE UNIT
PDU Series**



| Model Number | Belt Width (inches) | Max. Part Length (inches) |
|--------------|---------------------|---------------------------|
| PDU34 | 3 | 48 |
| PDU38 | 3 | 96 |
| PDU312 | 3 | 144 |

APPLICATION:

- The Pneumatic Discharge Unit is designed for transfer on in-line cut-to-length extrudates, including flexible to a collection point through the use of a cross-line manifold/nozzle system at a tare of 30 cycles/second.

PROGRAMMABLE CONTROLS:

- 4.1" LCD touch screen HMI
- Proprietary software driven display
 - Guides operator through set-up and prevents input errors
- Start pushbutton
- Emergency stop pushbutton
- Single turn line speed potentiometer (for manual operation)
- Automatic/manual locking selector switch
- Manual counter override with counter reset
 - Pushbutton for reset after package

CONVEYOR:

- 3" wide PVC conveyor belt
- Embossed surface to assist part removal and reduce part to belt adhesion
- Guide rib on bottom belt to insure positive, mechanical tracking
- 3' cantilevered, low profile entrance end to match or insert into adjacent equipment
- Adjustable inlet guides to insure proper part placement on belt

AIR MANIFOLD:

- 1" dia. copper manifold
- ¼ NPT ports spaced at 4" intervals insuring uniform part discharge
- Multiple air supply distribution to manifold from a single input to eliminate pressure drop down the entire length of the manifold
- Individual port flow adjustments/shut-off
- Filtration of compressed air to insure clean, dry air for part discharge
- 30 gal. air accumulator to reduce surge demands on plant compressed air system (optional)

PHOTOEYE SENSOR:

- Photoeye sender/receiver
- Photoeye is of a diffused type allowing for sensing from one side only and eliminate sender to receiver alignment problems
- Adjustable mounts and LED target indicator to insure proper photoeye alignment

PART REMOVAL AND PACKAGING:

- Adjustable angle deflector guides part into packaging box or table for subsequent removal
 - Part rolls down deflector after pneumatic ejection causing the part to be placed in the box or on the table in a straight, organized manner
- Packaging table is adjustable for various box sizes

DRIVE TRAIN:

- ½ HP DC permanent magnet motor
- 2-5% speed regulation at 95% load change
- 20 to 1 speed range (customer specified)
- Direct driven; no belts or chains reducing maintenance problems

FRAME:

- Heavy wall tubing, steel plate and structural sections
- Two rigid and two swivel casters and hold-downs
- Screw type floor jacks
- Fully guarded drive train and electrical components

ELECTRICAL:

- Standard Electrical is 230 Volt/3 Phase/60 Hertz
 - Electrical other than the above is available as an option

OPTIONS:

- 30 gal. air accumulator to reduce surge demands on plant compressed air system
- Box shuttling system
 - Automatic indexing of full box to the unload position and empty box to the loading position
 - Includes a programmable part counter to initiate box change-over at a desired count
- Full box audible and visual signaling system
 - Includes a programmable counter part to signal the operator that the desired part count has been reached
- Box oscillating system
 - Automatically indexes box an incremental, adjustable amount to prevent part buildup in one area of the box. This feature is useful when processing tacky materials such as flexible PVC or urethanes.
- Different conveyor belt materials or textures



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