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## Standardized Box Line “Plug-n-Pack” Module “Fill Station Module”

- **Primary Components:**
  - Batcher Control Panel
  - Scale Load Cell Frame
  - Fill Valve Assembly
  - Fill Station Powered Roller Conveyor
  - Motor Starter Panel
  - Pre-wired with Quick-Connect Harness Assemblies
- Assembly can be expanded for addition of:
  - Second Powered or Gravity Roller Conveyor
  - Densifyer, Powder or Pellet Service Type
  - Manual Controlled In-Feed Conveyors
  - Manual Controlled Discharge Conveyors
  - Future automated Box Line
  - Future automated FIBC Bulk Bag Line

<u>Item</u>	<u>Qty</u>	<u>Description</u>
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101	1	<b>Batcher Control Panel</b> <ul style="list-style-type: none"><li>• Nema 4 Enclosure- FRP</li><li>• 120 Voltage power</li><li>• Power On/Off Selector Switch</li><li>• Fill Start Push Button</li><li>• Fill Stop Push Button</li><li>• Fill Station Roller Conveyor Jog-On Selector Switch (local j-box)</li><li>• Controller, 6 Inch Color Touch Screen</li><li>• Weight Digitizer</li><li>• Discrete Input Module – 16 pt. 24VC</li><li>• Discrete Output Module – 16 pt.</li><li>• Pre Programmed Box Fill Functions</li><li>• Pre Programmed Pellet Densifyer Functions</li><li>• Pre Programmed Powder Densifyer Functions</li><li>• Pre Programmed Second Powered Roller Conveyor Output</li><li>• Structural Steel Galvanized Support Stand</li><li>• Pre-wired with quick-connect harness assembly</li></ul>
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<u>Item</u>	<u>Qty</u>	<u>Description</u>
102	1	<b>Scale Load Cell Frame</b> <ul style="list-style-type: none"><li>• Structural Steel Construction</li><li>• (4) Beam type load cells</li><li>• Load Cell summing junction enclosure</li><li>• Load Cells are accessible for service without removal of conveyor</li><li>• RAL Color Code finished surface, # 5017 Traffic Blue</li></ul>
103	1	<b>Fill valve Assembly</b> <ul style="list-style-type: none"><li>• 8" Automatic Butterfly valve with SS disc and White Buna-N seat</li><li>• Air Actuator</li><li>• Full Open Position</li><li>• Partially Open Dribble Position</li><li>• Full Closed Position</li><li>• Mounting Flange Inlet Spool – Aluminum</li><li>• Discharge Spool, with extended chute – Aluminum</li><li>• Pre-wired with quick-connect harness assembly</li></ul>
104	1	<b>Fill Station Powered Roller Conveyor</b> <ul style="list-style-type: none"><li>• 7 feet nominal OAL conveyor x 52 BF</li><li>• CDLR Liver Roller Powered Conveyor with tread plates between rollers</li><li>• 45 FPM Conveyor Speed</li><li>• 12 Inch top-of-roller height (18" with Densification Station)</li><li>• 2 ½" x 11 ga. Rollers</li><li>• Structural Steel frame for mounting onto the Scale Load Cell Frame</li><li>• RAL Color Code finished surface, # 5017 Traffic Blue.</li><li>• Designed for future Densification Frame rails located between rollers</li><li>• Pre-wired with quick-connect harness assembly</li></ul>
105	1	<b>Motor Starter Panel</b> <ul style="list-style-type: none"><li>• Nema 4 Carbon Steel Enclosure</li><li>• 480/3/60 Power</li><li>• Flanged Power Disconnect - 15 Amp Circuit Breaker</li><li>• Fill Station Drive Power Converter</li><li>• Panel Space for future 2 HP Motor Starter assembly</li><li>• Support Stand</li><li>• Pre-wired with quick-connect harness assembly</li></ul>

<u>Item</u>	<u>Qty</u>	<u>Description</u>
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<b>106</b>	<b>1</b>	<b>Documentation</b>
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- Assembly Drawing
- Operational Instructions
- Electrical Panel Drawing submitted for record
- Electrical Wiring Drawing submitted for record (as-built)
- Spare Parts List and Component Manual

<b>107</b>	<b>1</b>	<b>OPTION – Pellet Densifier Assembly</b>
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- High Amplitude Low Frequency type
- Pneumatic Air Pads assembly with flow control valves
- Support Base Frame
- Box Lift Frame
- Pre-wired with quick-connect harness assembly
- Pre-Plumbed for single-point connection to a plant compressed air source

**Photo of Fill Station Module with expansion of Densifier, In-Feed, and Discharge Box-Top station:**

