

Pelletizers - Legacy System Upgrades

System Upgrade Options	Description
'Duty Cycle' Hydraulic Pressure Switch <i>(some older units may require an electrical upgrade for retrofit)</i>	<ul style="list-style-type: none"> • Detects high piston retract pressure indicative of snow behind piston; shuts machine down, reducing piston breakage by 90% • Reduces chill-down cycle time for faster build up to full production • Automatically shifts from chill-down cycle to run-cycle when 1000 psi (69 bar) is reached
Low Flow CO₂ Vapor Purge	<ul style="list-style-type: none"> • Prevents water build-up on dies and collector screens, preventing high extrusion and chamber pressures resulting in system shut-downs and wear on the hydraulic unit • Increases useful life of hydraulics, piston components and rod seals • Ensures consistent, repeatable start-up • Keeps water from forming on vent screens and dies during shut-down
Heater - Low Flow CO₂ Vapor Purge	<ul style="list-style-type: none"> • Heats vapor purge CO₂ to prevent water ice build-up on internal components and dies • Very useful when producing at ambient temperatures below utility machine requirements
Oversized Discharge Chute	<ul style="list-style-type: none"> • Increases discharge chutes diameter from 6" to 8" • Helps to eliminate ice jams in humid environments
Automatic Controls <i>(for machines manufactured between 1997-2004)</i>	<ul style="list-style-type: none"> • Converts unit from Manual to a Fully Automatic operation -- greatly simplifying operation and training of operators • Automatic, quick, repeatable, and safe start-up and shut-down • Eliminates time consuming steps that if performed incorrectly can cause damage, or affect system performance
Electric, Control Panel, and Ethernet Capable PLC	<ul style="list-style-type: none"> • Replacement of relays and input cards with most up-to-date version • Replacement of obsolete PLC with up-to-date version that has full Human Machine Interface (HMI) and Ethernet compatibility • Updates PLC to current program standards
Lighted LED's on Electrical Components	<ul style="list-style-type: none"> • Install LED indicators on critical components • Rapid, visual identification of energized coils • Simplifies troubleshooting
Spacers Over Extrusion Cylinder Tie Rods	<ul style="list-style-type: none"> • Ensures proper alignment of the barrel and cylinder • Ensures even torque on all rods – reduces tie rod stress/breakage • Prevents buckling ("Hour Glass Effect") of the barrel • Ensures die plate will bolt flush to the end plates, eliminating the risk of end plate warping
Replacement or Rebuild of Damaged Snow Barrels	<ul style="list-style-type: none"> • Replaces or reconditions damaged or warped barrel assemblies • Eliminates buckling ("Hour Glass Effect") of the barrel • Ensures proper alignment of the barrel and cylinder, reducing the chance of piston bolt breakage • Ensures even torque on all rods – reduces tie rod stress/breakage • Ensures die plate bolts flush to the end plates, eliminating the risk of end plate warping
Replacement or Rebuild of Extrusion Piston	<ul style="list-style-type: none"> • Replacement of damaged extrusion piston or total rebuild • Increases the life of piston head wear bands and o-rings • Reduces probability of hydraulic fluid in dry ice