Flexicon’s JET-FEED™ Garnet Delivery System automatically feeds garnet directly from bulk bags to waterjet cutters, eliminating the labor cost, potential injury, waterjet downtime and high material cost related to garnet supplied in 40 to 100 lb (18 to 45 kg) bags.

The Flexicon BFF Series BULK-OUT® bulk bag discharger allows floor level connection of bag straps to a lifting frame, which is forklifted safely and securely onto cradles of spring-loaded POP-TOP™ extension posts.

The bag outlet spout is pulled through a manual iris valve which is then closed, allowing the spout to be untied and the valve released slowly to prevent dusting.

FLOW-FLEXER® bag activators raise and lower opposite bottom sides of the bag at timed intervals, raising the bag bottom into a steep “V” shape. At the same time, the spring-loaded posts stretch the bag upwards as it lightens, promoting consistent flow and total discharge through the bag spout.

The floor hopper charges a Flexicon® flexible screw conveyor, which can be routed vertically, horizontally or at any angle, over short or long distances, to one or multiple waterjet pressure pot locations.

The conveyor’s only moving part contacting garnet is a rugged inner screw, which is driven from its upper end beyond the point at which garnet is discharged, preventing material contact with seals and associated maintenance, wear and downtime. As the screw rotates, it self-centers within the abrasion-resistant polymer tube, preventing garnet from grinding between the screw and tube wall, maximizing the life of both.

Garnet exiting the conveyor gravity discharges through flexible downspouting into the waterjet’s pressure pot.

The conveyor can be started and stopped manually, or automatically by a PLC linked to high and low level sensors installed on the pressure pot.

The Flexicon flexible screw conveyor (shown along back wall) can be routed horizontally, vertically or at any angle, over short or long distances, to reach the waterjet pressure pot’s existing location.
**BULK BAG DISCHARGER FEATURES**

- Rugged frame accommodates bulk bags of all popular sizes and weights
- Removable lifting frame allows floor-level connection of bag straps
- Patented Z-CLIP™ bag strap holders allow fast and secure insertion and removal of bag straps
- Manual iris valve cinches bag spout to prevent material flow, allowing the spout to be untied, access door to be closed, and valve to be released slowly, preventing uncontrolled bursts of garnet into the hopper and dust into the plant environment
- Spring-loaded POP-TOP™ extension posts stretch bag upward as it lightens to promote flow
- Pneumatically-actuated FLOW-FLEXER® bag activators raise and lower bag bottom into a steep “V” shape, promoting total discharge
- Stainless steel hopper with U-shaped outlet charges conveyor intake with garnet
- Sealed system contains dust

**FLEXIBLE SCREW CONVEYOR FEATURES**

- Flexible screw and tube can be routed horizontally, vertically or at any angle over short or long distances, through small holes in walls or ceilings to existing pressure pot locations
- Abrasion-resistant screw is the only moving part contacting garnet
- Screw is driven at its upper end, beyond the point at which garnet is discharged, preventing material contact with seals or bearings
- Operates with high reliability and low maintenance
- Screw self-centers with the tube, preventing garnet from grinding against tube wall
- Flexible downspouting directs garnet into waterjet pressure pot
- Fully enclosed system contains dust, preventing contamination of personnel and plant environment
- The conveyor can be started and stopped manually, or automatically by a PLC linked to high and low level sensors installed on the pressure pot