



## UNDER MILL OSCILLATORS

As the first piece of equipment following the shredder, an Under Mill Oscillator (UMO) is an integral machine that is required to be dependable, reliable and rugged enough to handle the high impacts and process flow demands from the shredder.

General Kinematics UMO's are designed with extra structural and gridwork reinforcement to ensure trough integrity that will withstand the severe conditions found underneath auto-shredders. In addition, GK's UMO's provide consistent conveying throughout various surge loads. Specifically engineered for this application, combining GK's SYNCRO-SHEAR® with the SYNCRO-CUSHION™ Drive assembly provides lateral stability and downstops to handle the force of even the largest explosions without damage to the conveyor.

GK frequently works with system integrators around the world to provide the best solution for the most challenging applications. GK's Under Mill Oscillators have proven reliability and performance, with installations still in operation for over twenty years. Call us to upgrade or replace your existing UMO.



### FEATURES:

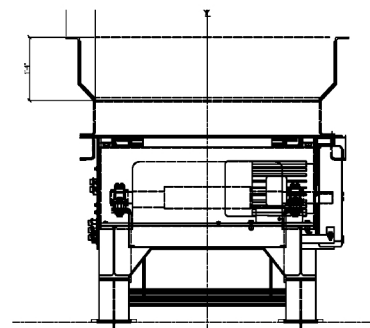
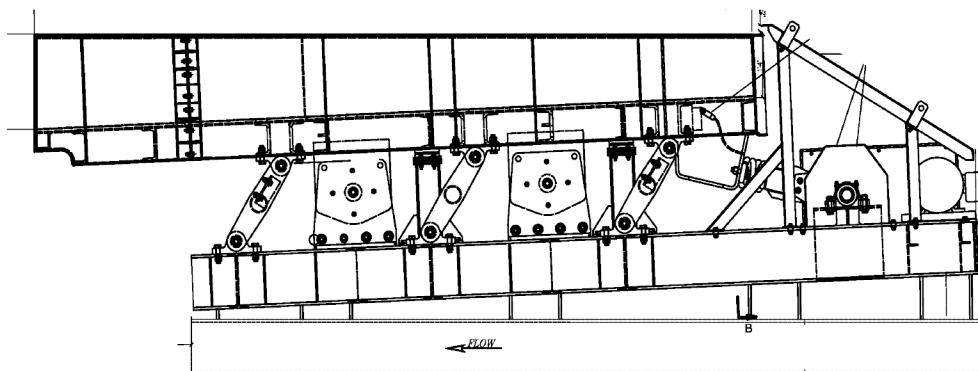
- Extra thick trough liners in the impact areas.
- Flared trough designs to minimize jamming and provide better flowability.
- Structural downstops to prevent over-stroke of trough from overloading, explosions, or heavy impacts.
- SYNCRO-SHEAR® spring system to provide lateral stability in all phases of operation.
- Rear mounted SYNCRO-CUSHION™ Drive for reliability and ease of access.
- Convenient, centralized lubrication access for routine maintenance of bearings.



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## CAD Drawings



## Specs

<b>Function:</b>	Shredder Takeaway
<b>Components:</b>	Electric Motors, Isolation Springs, Reactor Springs, Steel Construction, Screens, Liners
<b>Construction Material:</b>	Abrasion Resistant Steel, Mild Steel, Rubber, Stainless Steel
<b>Power Requirements:</b>	Up to 60 hp
<b>Width:</b>	Designed per application up to 84" wide
<b>Length:</b>	Designed per application up to 40" long
<b>Weight:</b>	Up to 60,000 lb
<b>Capacity:</b>	Up to 300 yd/h
<b>Air Knife Options:</b>	One, Two, or Three
<b>Analysis:</b>	Fatigue, FEA, Stress
<b>Finish:</b>	Bead Blasted, Epoxy, Galvanized, Painted
<b>Production Volume:</b>	Built to Order
<b>Benefits:</b>	Efficient, Low Maintenance, Reliable, Rugged, Safe Operation, Large Processing Rates
<b>Secondary Services:</b>	Customer Support, Field Service, Additional Features
<b>Quality:</b>	ISO Certified

## Application Photos



Spec Sheet No. GKR-16.

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