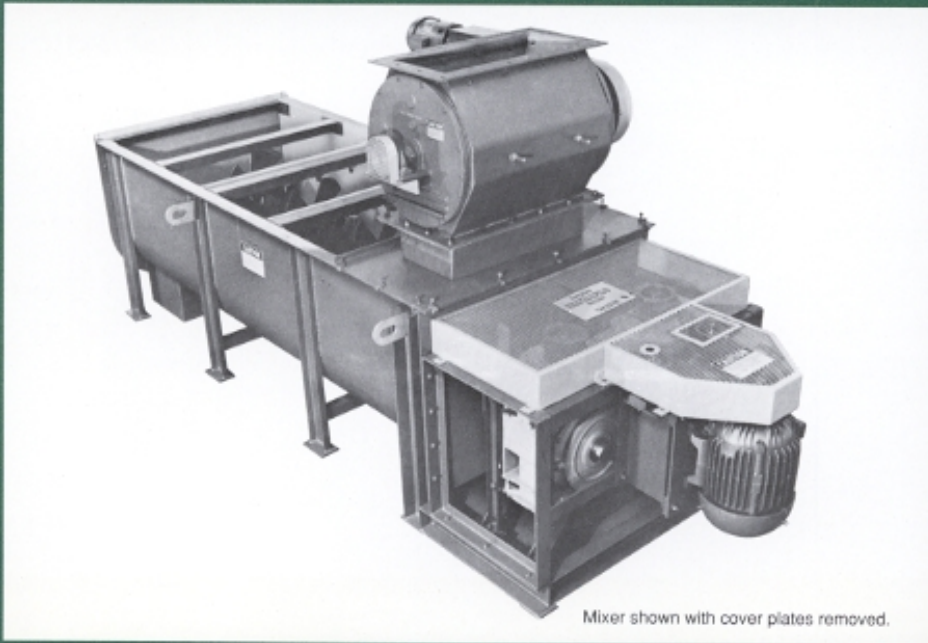




## Detroit Ultraflo™ Mixer



Mixer shown with cover plates removed.

**Detroit Ultraflo™** mixers are used to mix and thoroughly condition dry and dusty materials, both abrasive and non-abrasive. Featuring a totally-enclosed design, the Ultraflo is an environmentally-sound solution to your dustiest, dirtiest mixing and unloading problems. The Ultraflo's dual-shaft paddle arrangement, using a kneading action, blends dry material being introduced into the mixer with the already wetted material inside the mixing trough, while strategically-placed wetting nozzles spray the mixture for complete conditioning.

The Ultraflo Mixer is ideal for mixing and conditioning:

- Ash
- Sludge
- Other dusty and abrasive or granular materials

#### Serving:

- Utility companies
- Industrial users of solid fuels
- Government and institutional installations

#### Features and Benefits

- Complete mixing with controlled material flow and uniform wetting.
- Totally-enclosed design for cleaner operation.
- Rugged construction with heavy-duty drive for reliable operation and low maintenance.
- Stationary mixing trough—no noisy, rotating drum to leak and wear.
- Positive conveyance and blending with minimal material buildup on paddles.
- Low-speed operation for minimal wear, low horsepower consumption.

- Easy access for maintenance or removal of parts.

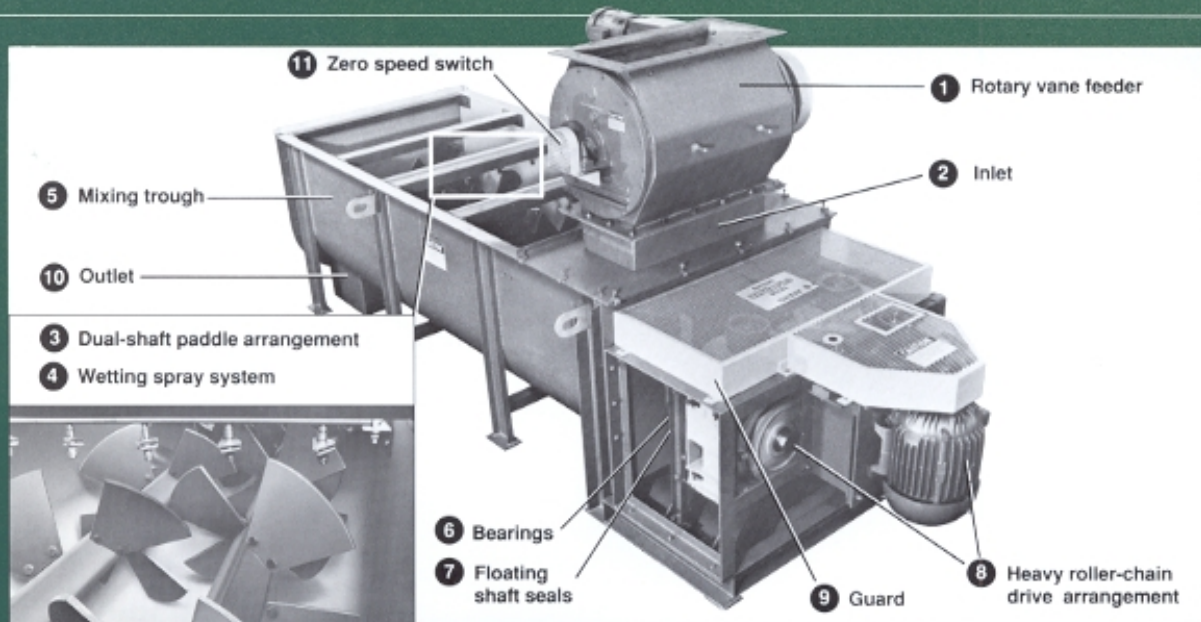
- Available in a range of sizes and models—plus, can be custom-designed to suit your specific requirements:

Paddles and/or mixing trough available with coatings or various materials of construction.

Additional optional accessory equipment, variations and specially-engineered adaptations also available.

- Consistent discharge of manageable material for process or disposal.
- An easy retrofit for replacement of your old drum-type conditioner/unloader or an existing mixer or pug mill.
- Completely shop-assembled for simplified installation.

# Detroit Ultraflo™ Mixer



**1 Rotary vane feeder** (option) for an evenly-metered and constant flow of material to the Ultraflo Mixer. Detroit has feeding devices available to suit nearly every condition, including conveyors, as well as slide gates which are used to shut off flow to the feeding device in order to perform maintenance when needed.

**2 Inlet** with flanged opening, adaptable to virtually any feeding device.

**3 Dual-shaft paddle arrangement** is counter-rotating. Abrasion-resistant, heavy steel, angled-mounted paddles are bolted to rugged, square steel shafts to provide solid attachment. Material is picked up from the bottom of the mixing trough by the paddles and drawn up each side, then forced to fall back between the two paddle shafts. The positioning of the paddles creates a kneading action, during which water (or some other specified liquid) is sprayed on. The resultant mixing and blending produces a properly-conditioned material discharge.

**4 Wetting spray system** with non-clog spray nozzles positioned for effective wetting in separately-regulated zones.

**5 Mixing trough** (shown with covers removed), constructed of heavy steel plate. A rugged structural support is an integral part of the mixing trough. A multiple of steel plate covers, which are easily removable for maintenance access, forms a dust-tight enclosure. A hinged access plate is provided in the discharge end-cover for occasional observation.

**6 Bearings**—externally-mounted on mixing trough for long life.

**7 Floating shaft seals**—replaceable without removing shafts.

**8 Heavy roller-chain drive arrangement**—drive mounting is integral with mixing trough.

**9 Guard**—of sturdy steel plate and expanded metal construction to cover drive.

**10 Outlet** for discharge is arranged to receive the directed flow of conditioned material. The large, rectangular opening is adaptable for connection to disposal equipment.

**11 Zero speed switch** (option), shown above on the rotary vane feeder, is available also for the dual-shaft paddle arrangement of the mixer.

## Look to the Detroit Material Handling Specialists.

Detroit Ultraflo mixers are another dependable product of Detroit Stoker Company, serving the power industry since 1898. Detroit-designed and manufactured material handling systems and specialized equipment are backed by our worldwide reputation for excellence. **Our large engineering, manufacturing and service staff is here for you, dedicated to delivering the highest quality and the very best technology. For more information, call or write us today.**

**Detroit Stoker Company**  
 Subsidiary of United Industrial Corporation  
 1510 East First Street  
 Monroe, Michigan 48161  
 Phone: (313) 241-9500 Fax: (313) 241-0216

