

**ROTO-MIX<sup>®</sup>**

**INDUSTRIAL  
SERIES  
MIXERS**

Made for the Composting Industry of Today and Tomorrow





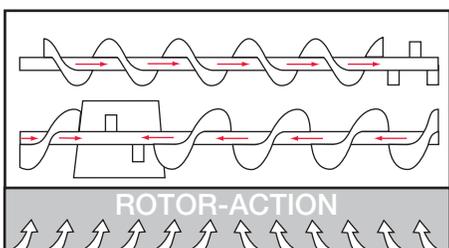
# The Dependable Mixer

Progressive compost technicians know once a proper recipe has been selected, mixing the ingredients is essential to ensure rapid decomposition and quality compost. One of the major benefits of mixing is to uniformly distribute nutrients and microorganisms throughout the compost pile.

The ROTO-MIX design combines gentle tumbling with quick complete mixing to save time and improve your bottom line. The ROTO-MIX conveyor can be used to build windrows or static piles. ROTO-MIX has a complete line of Industrial Mixers—one that will meet your needs today and tomorrow.



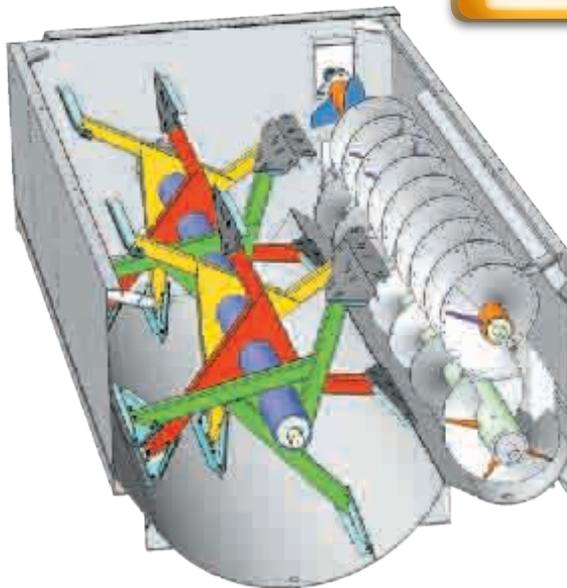
The rotor design lifts ingredients up to the side augers that move ingredients end-to-end for a fast thorough mix. Unlike the wedge point on other brands, our rotor lifts the material past the wedging point of the lower side auger, giving you a fluffier mixture while lowering power requirements.



Total movement of material in the mixing chamber eliminates dead spots common in conventional auger mixers.

## GeneRation II Staggered Rotor Mixers

Visit Our Web Site to see Video Demonstration!



Patent Pending

## Available as Truck, Trailer or Stationary Models

The ROTO-MIX mixing system carries US Patent Nos. 4,506,990—4,597,672—4,741,625 and CANADA Patent No. 1,249,262—other foreign patents pending.



Patent Pending

## Compost Spreading Attachment

For fast, accurate compost application—great for highway projects, housing developments, erosion control or anywhere an even compost bed is required.

## FEATURES AND BENEFITS

### Particle Integrity

The ROTO-MIX system protects particle size with less grinding or compaction. Particle size and porosity are critical because it determines how well air can enter and diffuse into the composting mass.

### Fluff

With better air introduction and distribution, ROTO-MIX consistently produces quality compost by lifting the ingredients past the lower auger's wedge point, resulting in a fluffier mixture that starts to compost faster.

### Totally Mixed Compost

Our thorough mixing action eliminates dead spots, auger tunneling and corner pile-up giving a consistent balance of nutrients and microorganisms from the first yard of compost to the last.

### Flexibility

Mixes all types of compost ingredients, solid waste, yard waste, food waste, sludge and amendments, animal manure and a number of others with consistency day after day.

### Industrial Scale Check System

Load-cell mounting comes standard with ROTO-MIX ball and socket type tie bars to connect the mixer to the frame. This feature eliminates side and end movement on the load cells, which allow for scale dependability and accuracy.

### Conveyor

Optional hydraulic folding conveyor up to 120" long gives you ability to build windrows, static piles or load truck fast and efficiently. We also have a portable stand-alone conveyor for stationary models.

### Clean-Out

The forward pitch rotor design, adjustable UHMW wiper blades, and the rotation of the lower auger quickly and efficiently cleans out the mixing chamber.

### Easy Access Rear Doors

The single lever latch makes inspection easy and desirable compared to other little latches or hardware.

### Single Point Grease Bank

Allows quick lubrication from a single point. Heavy-duty drive assembly runs in an enclosed oil bath.

### Lower Center of Gravity

A lower center of gravity makes for a more stable unit when making windrows and less shock load when cornering.

### Forward Pitched Rotor

The patented rotor lifts ingredients up to the side augers that move the ingredients from end-to-end for thorough mixing. The lifting action of the rotor eliminates wedging of the compost under the lower auger. Patented tumbling design reduces mixing power requirements.

### Industrial Duty Drive Train

Spline shafts eliminate shearing of keys and gaulding of shafts. Heavy-duty chains and bearings extend life and reduce downtime.

### Industrial Flighting

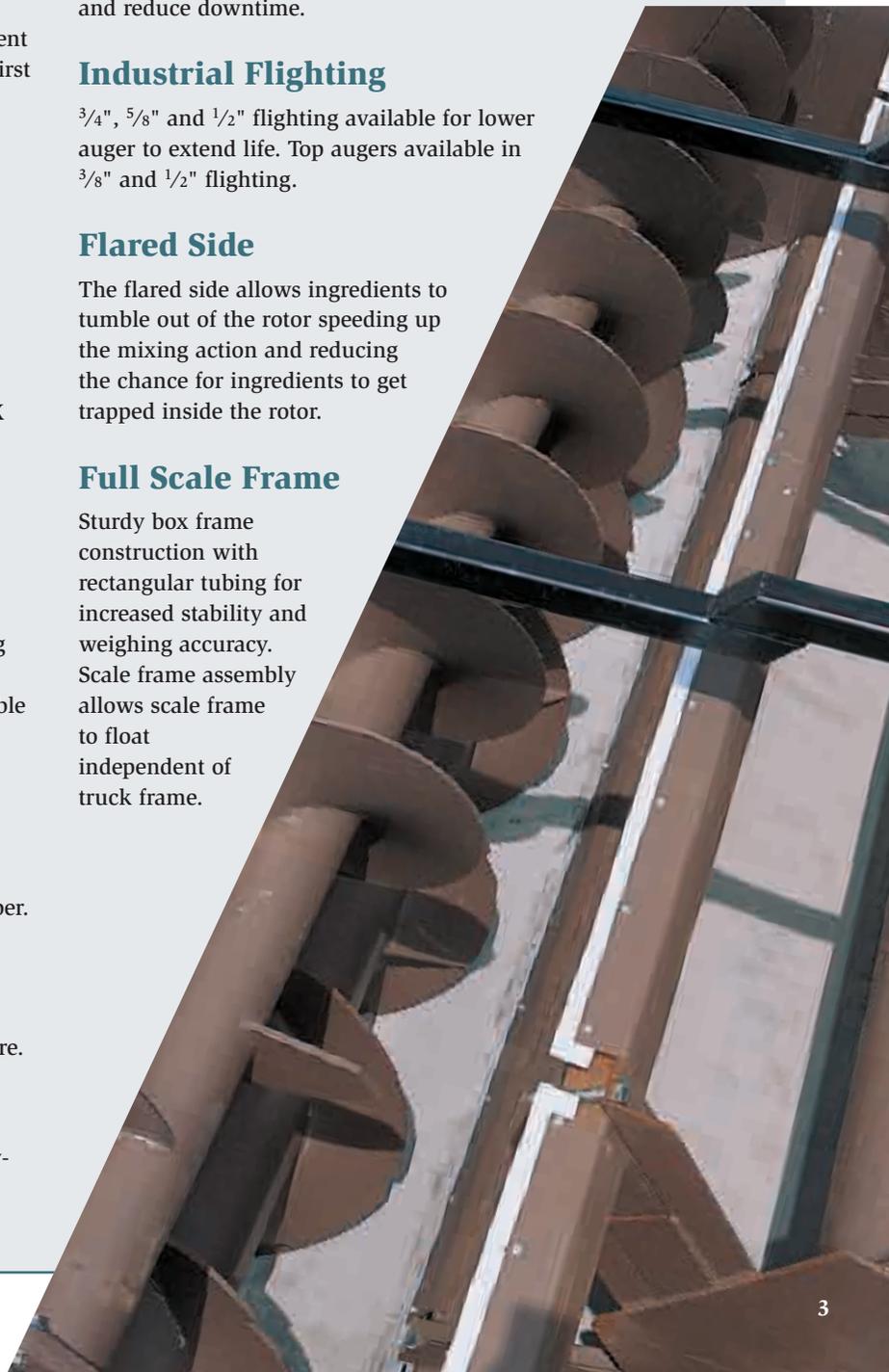
$\frac{3}{4}$ ",  $\frac{5}{8}$ " and  $\frac{1}{2}$ " flighting available for lower auger to extend life. Top augers available in  $\frac{3}{8}$ " and  $\frac{1}{2}$ " flighting.

### Flared Side

The flared side allows ingredients to tumble out of the rotor speeding up the mixing action and reducing the chance for ingredients to get trapped inside the rotor.

### Full Scale Frame

Sturdy box frame construction with rectangular tubing for increased stability and weighing accuracy. Scale frame assembly allows scale frame to float independent of truck frame.





# Rugged Dependability



Only two augers with one-half to two-thirds less flighting than most conventional auger mixers.

The patented rotor lifts material up to the side augers that move the material from end-to-end for thorough mixing. The lifting action of the rotor eliminates wedging of bulky materials under the lower auger.

A low center of gravity puts less shock load on the axle and springs when cornering or driving over rough terrain.

Rotor is equipped with spring tension bars to relieve pressure and eliminate wedging of bulky materials. UHMW wiper blades are adjustable for a fast, effective clean-out.

Extra heavy wall auger tubes give maximum life and less maintenance.

Patented tumbling action allows easier pulling mixer action, reducing the load on the transmission, PTO, and drive line.

ROTO-MIX units have two automotive type drive shafts from a truck PTO to one heavy-duty gear reducer.

The rotor design keeps the lower side auger at full capacity, giving quick clean-out.

Short wheel base allows for easy maneuverability and tight turning radius.



The extra heavy-duty drive assembly runs in an oil bath. A grease bank allows easy access to all drive assembly bearings.

Lower auger and rotor have double tapered roller bearings and both augers are flanged for easy removal over the top.

# Innovative Indicators by Digi-Star



Transmitter/Receiver (TR optional)—Radio controlled TR lets you zero and select net or gross from up to 100 ft. away.

## Put Ingredients' Weight at Your Fingertips

Get more for your money with the EZ II line of indicators. Call ROTO-MIX for information on the complete line and related products including stainless steel load sensors.



## RD Wireless, 1000 Remote with RF 900 Transceiver

Load precise rations without straining to see the display. A transceiver (RF 900) connected to an EZ Indicator in the cab communicates via radio frequency to another RF 900 on the loader, which is connected to a Wireless RD 1000 Remote Display. With 16 different channels to select from, this is an ideal application for multi-unit installation since you no longer need a remote on each truck.

# Quality—It's Built In



## Trailer Features

- Single pole tongue allows for a tight turning radius.
- Trailer constructed of heavy-duty tubular steel with built in scale mountings.
- Heavy-duty hubs and spindles designed for years of trouble free operation.
- A wide selection of tire choices.
- Rear bumper is standard equipment.
- Short wheel base allows for tight turns and easy maneuverability.
- Adjustable hitch clevis allows the operator to level mixer with most tractors to maximize mixer efficiency.
- Heavy-duty, tubular trailer frame ensures long life and maximum scale accuracy.
- Weigh bar scale or load-cell mounting.
- Load-cell mounting comes standard with ROTO-MIX ball and socket type tie bars to connect the mixer to the frame.

This feature eliminates side and end movement on the load cells which allows for scale dependability and accuracy.
- Heavy-duty leaf spring suspension on 2670 and 3410 units.



## Stationary Units

- **Right or left hand discharge available.**
- Higher side discharge location allows easier loading of conveyors while maintaining a minimum mixer height.
- Low electric horsepower requirements.
- Flexible motor mount designs to keep overall space requirements to a minimum.
- Wide base scale frame.

## Options

- Door—wide door openings allow for fast ingredients' delivery with easy hydraulic control while mixer is running.
- Conveyor—stationary incline belt conveyor with 10 hp electric motor.
- Ladders to aid in inspection of mixing chamber.
- **Stainless steel** body or liners for mixing chamber.
- Rotor options of 5 and 6 bar to match your ingredients' density and improve mixing speed and performance.





# Energy Efficiency at its Peak

**In design, operation and maintenance, the ROTO-MIX mixer was developed with pure cost-efficiency in mind.**

You'll find fewer bearings and less moving parts overall than conventional auger mixers. It all adds up to fewer repairs and a reduced cost for maintenance.





The ROTO-MIX variable rate discharge door is hydraulically operated and can be opened or closed with the mixer running to control compost flow. This feature eliminates constant PTO off-and-on, reducing torque surge and offering operation ease.

Optional hydraulic folding conveyor up to 120" long gives you ability to build windrows, static piles or load truck fast and efficiently.



## ROTO-MIX Industrial Compost Mixer Specifications

| Model Description                              | 1670         | 2300         | 2670         | 3410         |
|--|--------------|--------------|--------------|--------------|
| Maximum Mixing Capacity (cu. yd.) <sup>B</sup> | 16.7         | 23           | 27.8         | 34.1         |
| Maximum Mixing Load (lb) <sup>B</sup>          | 17,500       | 17,500       | 20,500       | 26,100       |
| Unit Weight (lb) Truck Installed               | 13,650       | 16,380       | 19,975       | 21,685       |
| Unit Weight (lb) Trailer w/Tires               | 15,400       | 18,130       | 22,125       | 25,085       |
| Unit Weight (lb) Stationary w/o Motor          | 13,360       | 16,090       | 18,655       | 20,485       |
| Power Requirement (hp) Truck                   | 230          | 230          | 230          | 250          |
| Power Requirement (hp) Trailer                 | 110          | 120          | 130          | 140          |
| Power Requirement (hp) Stationary              | 50           | 50           | 50           | 40/75        |
| Mixer Length (in)                              | 170          | 218          | 223          | 232          |
| Mixing Chamber Length (in)                     | 144          | 192          | 192          | 216          |
| Length Hitch to Tire Center (in)               | 171          | 182          | 185½         | 193          |
| Length Cab to Axle Center (in)                 | 108          | 138          | 144          | 156          |
| Overall Length—Trailer (in)                    | 226          | 278          | 278          | 303          |
| Overall Length—Truck (cab to bumper) (in)      | 181          | 229          | 235          | 262          |
| Overall Length—Stationary (in)                 | 182½         | 230½         | 234          | 250          |
| Overall Width—Folded Spout (in)                | 112          | 112          | 115          | 122¾         |
| Overall Width—Stationary (in)                  | 106½         | 106½         | 110          | 118¾         |
| Overall Width—Mixer Only (in)                  | 106½         | 106½         | 110          | 118¾         |
| Overall Width—Optional Conveyor (in)           | 140          | 140          | 145          | 172          |
| Overall Height—Trailer* (in)                   | 110½         | 110½         | 121          | 130          |
| Overall Height Mixer/Truck Frame/Ht. (in)      | 116/36       | 116/36       | 119/36       | 135/36       |
| Overall Height Mixer—Stationary (in)           | 85½          | 85½          | 89½          | 101¾         |
| Overall Width of Tires—Trailer (in)            | 94           | 94           | 96           | 96           |
| Overall Width of Tires—Truck (in)              | 96           | 96           | 96           | 96           |
| Discharge Hinge Height Trailer (in)            | 45           | 45           | 51           | 59           |
| Discharge Hinge Height Truck (in)              | 51           | 51           | 52           | 56           |
| Discharge Width (in)                           | 46½          | 46½          | 46½          | 46½          |
| Thickness—Bottoms (in) <sup>A</sup>            | ¾            | ¾            | ¾            | ¾            |
| Thickness—End Plates (in)                      | ¼            | ¼            | ¼            | ¼            |
| Thickness—Sides                                | 7 ga         | 7 ga         | 7 ga         | 7 ga         |
| Top Auger Flight (in)                          | ¾ x 24 OD    |
| Lower Auger Flight (in)                        | ¾, ½ x 24 OD |
| Rotor Diameter (in)                            | 72½          | 72½          | 76½          | 84½          |
| Rotor Bar Options                              | 5,6          | 5,6          | 5,6          | 5,6          |
| Drive Chain—Auger Drive <sup>A</sup>           | #80H-100-120 | #80H-100-120 | #100-100-120 | Hydrostatic  |
| Drive Chain—Rotor Drive                        | #140         | #140         | #120-(2)     | #180         |

\*Tire size may vary in height. Unit weight, listed most common option packages. All dimensions and specifications are subject to change without notice.

<sup>A</sup>Other options available.

<sup>B</sup>Maximum mixer capacity can be reached by volume or weight. By volume, each rotor bar should always be visible at the peak of the rotor cycle. By weight, when maximum load capacity is reached.



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