



# ORBITAL PRECISION BLENDER

## Making Precise Crop Nutrition Possible



### RIGHT SOURCE

Matches fertilizer type to crop needs.



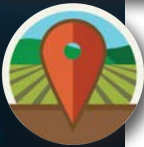
### RIGHT RATE

Matches amount of fertilizer to crop needs.



### RIGHT TIME

Makes nutrients available when crops need them.



### RIGHT PLACE

Keeps nutrients where crops can use them.



### Engineered for Modern Agriculture

From Sackett-Waconia's Precision line, the "Orbital Precision Blender", is ideal for high quality blends and supporting the 4 R's. Orbitals Blenders feature high quality components and stainless steel construction. The unique interior design provides gentle but thorough blending and a short mix time, making the output homogenous and free of degradation. As a premium batch blender, the orbital provides the utmost in flexibility, quality, consistency, and meeting the needs of today's and tomorrow's agriculture.

### Blend Quality and Impregnation

The orbital's blending action, via internal baffles and transfer screw, provides a fast, thorough, mix of ingredients and is ideal for coating and impregnation applications. Sackett-Waconia Orbital blenders are trusted throughout the world and their impeccable blend quality is an excellent choice for bagging operations. Orbitals are versatile and can be used in all of our Precision Fertilizer Blending® systems, including AccuBlend® and Tower Systems, but can also be utilized in stand-alone floor based arrangements.

### Reliability

The orbital blender's design is proven over many years. Its reliable and simple design offers stainless steel plate body, heavy duty internal screw, and industrial drive components to withstand the harshness of corrosive fertilizer products. While units can be built of carbon steel, the stainless option allows for a longest service life and ease of cleaning.

The inlet can be fitted with Sackett-Waconia Bulk Conditioner, further guaranteeing the blend quality, and the outlet height allows for downstream transfer to most any conveying systems.

# Orbital Precision Blender

## **The Science Behind the Precision**

The key to precision blending is complete circulation. All material must not only be in motion within the mixer, but it must also move in all directions. Failure to circulate creates “Dead Zones” that lead to pockets of unmixed ingredients.

On the outside, the Orbital appears to be yet another “tumbling” drum - but the similarities end there. The orbital’s special internal auger and trough allow simultaneous carrying and pass thru while the drums reversing flights carry materials the opposite direction to restart the cycle. These complex movements create the complete circulation of all materials and ensure premium blends and even distribution of micro and trace ingredients.

Once the short effective blending cycle is complete (about 30 seconds after all materials are in) the screw reverses and draws the material back out. The blending action continues in this direction as well, so products do not resegment while discharging.

## **The Importance of Precision Blends**

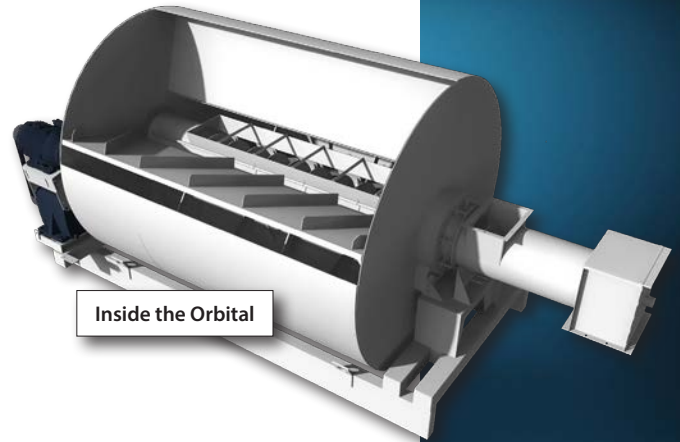
The 4R’s are strong supporters of Precision Agriculture. The Orbital Blender plays a key role by ensuring precise control of nutrients, assisting in Nutrient Use Efficiency (NUE) and minimizing environmental impact.



Sackett-Waconia has been a proud partner of the 4R Nutrient Stewardship program since 2012. For more information visit: [nutrientstewardship.org/4rs/](http://nutrientstewardship.org/4rs/)

## **Applications**

The orbital is a flexible batch mixer that can be used in many arrangements. It’s used in applications ranging from single hopper floor blending, to blending towers to the AccuBlend™ system. Capacities range from 60 tph top over 100 tph.



Precise Nutrition for Healthy Crops



## **Sackett-Waconia**

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