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*Engineering  
Excellence*

**Horizontal Blenders**

## **New Ross Series 42NSD**

### **Ribbon Blenders with Discharge Extruder Assembly**

*Available in sizes from 1/2 to 515 cu.ft.*



**42NSD-10 Ribbon Blender with Discharge Extruder Assembly**

**Features:**

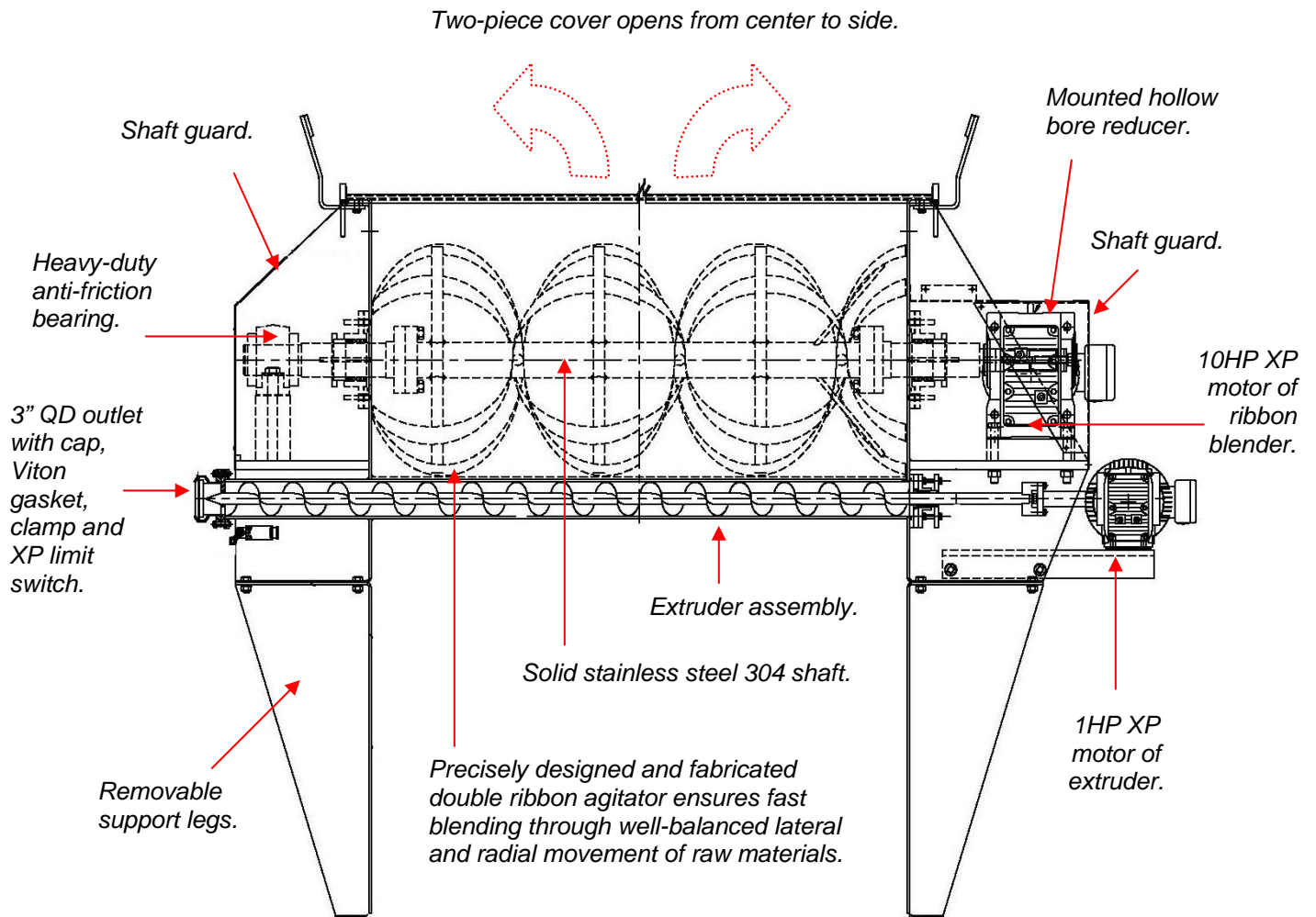
- Working capacity: 4 to 10 cu.ft.
- Full holding capacity: 13 cu.ft.

- Wetted parts: Stainless steel type 304, polished to 80-grit.
- Trough: 21" Wide x 48" Long x 25" Deep
- Top Cover: Two-piece cover with Silicone gasket and XP safety limit switches to prevent operation of agitator when cover is open.
- Agitator: Solid double ribbon agitator shaft. Heavy-duty anti-friction bearing on non-driven end.



- Drive Type: Hollow bore reducer.
- Motor: 10 HP explosion-proof
- Discharge: At the bottom of the trough is a discharge extruder assembly. A 3" dia. screw is directly driven by a 1HP explosion-proof motor with gear reducer. At the discharge side is an outlet flange with cap, Viton gasket and clamp. *The screw runs forward only during the discharge cycle and in reverse during the blending cycle. This eliminates dead zones and enhances mixing.* An XP limit switch prevents forward operation of the extruder when the cap is installed on the outlet port.

- Seal Design: 2-piece aluminum stuffing boxes with adjustable and replaceable braided Teflon packing.
- Clearance: Legs providing a 36" clearance between discharge valve and floor.



\* The extruder assembly is designed with very close tolerances between the screw and the tube (.030"). This provides a positive flow and discharge force enabling the use of an extrusion die. Above blender is fitted with a die with multiple holes to produce long threads of the finished product.

\* The extruder assembly shown above has an opening that is the full length of the trough bottom. This allows for full discharge of material. Other designs may have smaller windows/openings either in the center or at one end of the trough depending on the requirements of the application. The extruder assembly is completely removable for cleaning and maintenance.