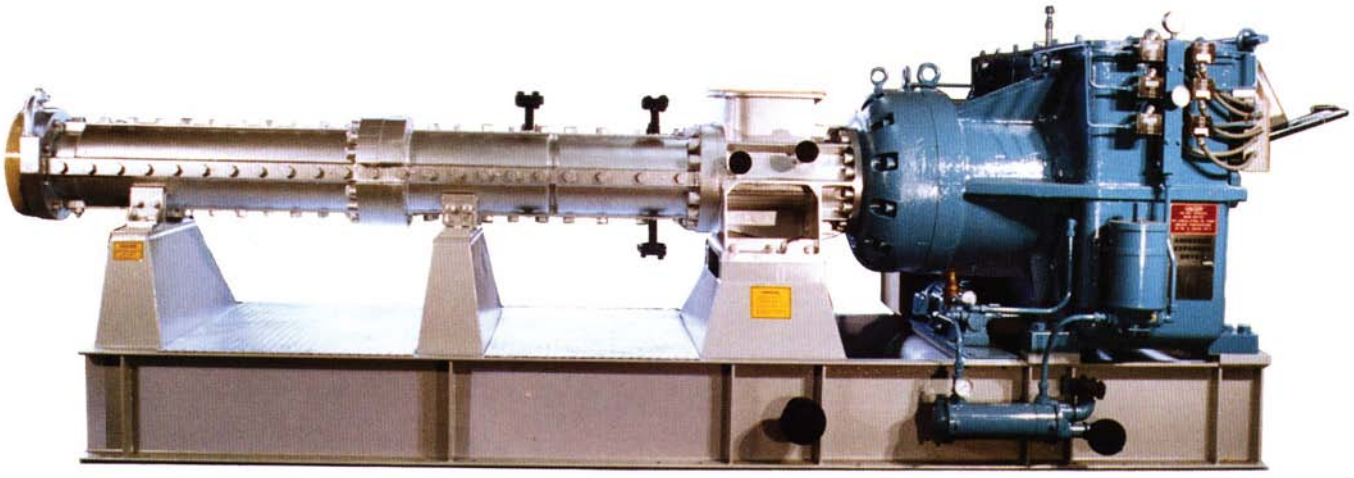
ANDERSON
INTERNATIONAL CORP



Anderson 10A Expander - Dryer

A mechanical dryer for the final drying of elastomeric materials.

Designed specifically for the Chemical Process Industry

Advantages

The second phase of the Anderson Mechanical Dewatering and Drying Line is the Expander Dryer. Designed to operate in conjunction with the Dewatering Expeller Press, the Expander Dryer reduces elastomer moisture content to specification in a matter of seconds.
The Expander Dryer provides low operating and maintenance costs and a high quality finished product.

- Low operating costs - a mechanical dryer takes advantage of the highly efficient conversion of electrical energy to mechanical work.
- Low maintenance costs - virtually no wear on the parts in contact with the material.
- Minimum heat history - the material is in process for approximately twenty seconds and at maximum temperature for less than two seconds.

Applications

Drying of synthetic and natural rubber
Drying of many elastomeric materials

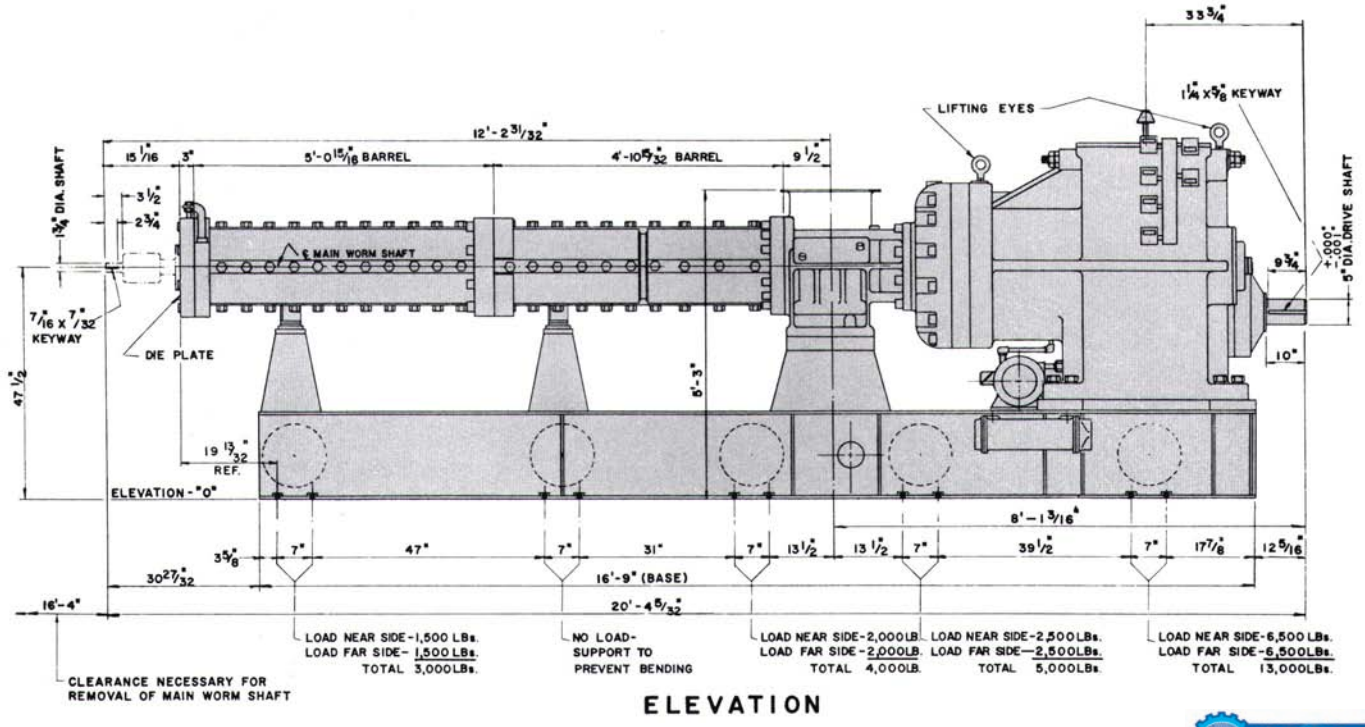
Anderson International Corp, 4545 Boyce Parkway, Stow, Ohio 44224
Phone: (216) 641-1112, FAX: (330) 688-0117 Website: http://www.andersonintl.net

The Anderson 10A Expander-Dryer

Product.....Rubber and Plastic Polymer.

Operation.....The Expander Dryer mechanical dryer operates at an elevated internal pressure in the discharge area of the barrel. Although the material is at temperatures above the normal vaporization point, the moisture to be removed remains liquid. As the material discharges through the multi-holed die plate to atmosphere, the pressure drop causes the moisture to vaporize immediately. This vaporization causes the expansion of the elastomer into a porous form, allowing the moisture to escape.
The process heat is derived from two sources. The prime source is the action of the worms on the material as the shaft rotates and conveys the material through the Expander Dryer against the restriction of the discharge die plate. The secondary source is the steam jackets which are also used for heating the unit prior to startup. Due to the high shaft speed and discontinuous worm design, the elastomer is quickly brought to process temperature conditions. The total residence time within the barrel is less than twenty seconds with the material at maximum temperature for only a few seconds.

Specifications.....The Expander Dryer mechanical dryer is normally driven by a standard foot-mounted motor through a variable speed hydraulic constant torque coupling. There are three models available: the No. 8 for applications up to 350 H.P; the No. 10A for applications up to 800 H.P; and the No. 14A for use with up to 1200 H.P. The single gear reduction is through herringbone gears.
Contact parts are constructed of corrosion resistant, contamination free, stainless steels and special alloys.
All gear cases are equipped with independently driven 3 H.P. lubricating oil pump. Forced lubrication of all bearings is insured with teleflow indicators in all oil lines. The system is also equipped with full flow oil filter and oil cooler. The unit is equipped with independently driven high speed cutter for sizing material at the die plate.



ELEVATION

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