Stearns®

# Tire Press Brakes

## FOR TIRE MANUFACTURING PLANTS

### Continuous Improvement & Putting Customers First

A tire manufacturing customer approached Stearns to develop a new brake for their application to increase the time before required maintenance of the system.

### Application Challenges

- High ambient temperature
- High inertia load
- Steam leaks in the tire manufacturing process

Due to the high ambient temperature and high inertia load, the standard friction materials were wearing too quickly, requiring frequent maintenance. Additionally, the pressurized steam forced water into the brake and caused premature corrosion of the components. To overcome these challenges, a high-temperature friction disc material was developed to withstand the high inertia load and ambient temperatures to significantly decrease the wear rate. In addition, a new IP 54/56* housing was designed to prevent steam and/or water intrusion inside of the brake. The result of the new design successfully increased the time before required maintenance, even exceeding the expectations of the customer, and is now being widely used in tire plants across the United States.

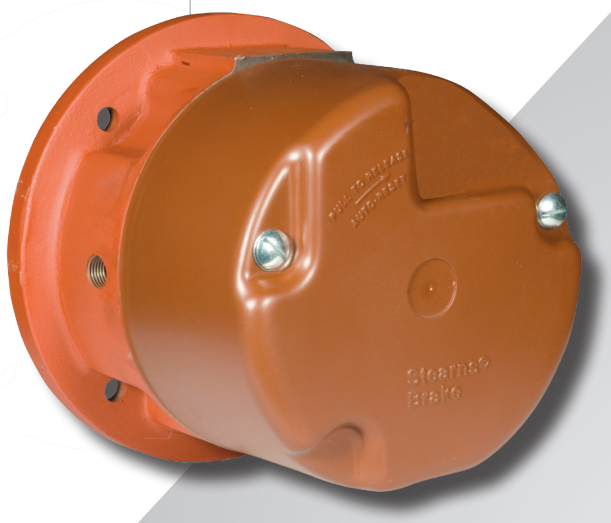
### Benefits of Tire Press Brakes

- Combined with an IP 54/56* rating, tire press brakes allow for longer life & greatly reduce required maintenance
- Sealed housing prevents water, steam & hydraulic oil intrusion
- Longer hub, friction disc life
- Higher thermal capacity friction disc

*IP 54; IP 56 with motor gasket.

### Features

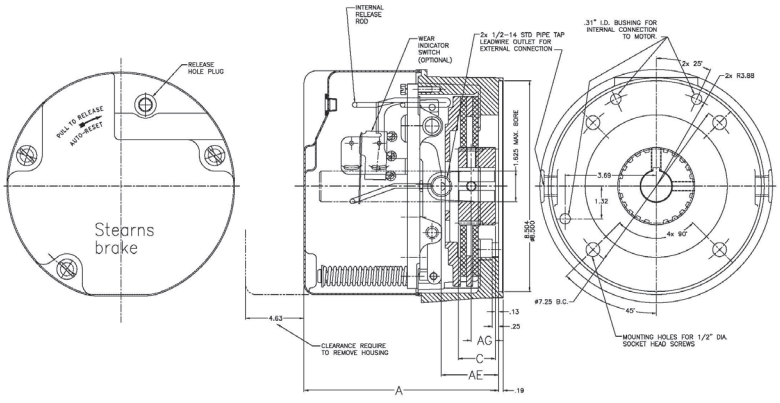
- Splined Heavy Duty Hub
- Specialty Designed Friction Disc for Higher Operating Temperature & High Inertia Loads
- Cast Iron Endplate
- Internal Manual Release
- Housing Nut O-Rings
- Sealed Manual Release Hole in Housing
- IP 54 or 56 Rating



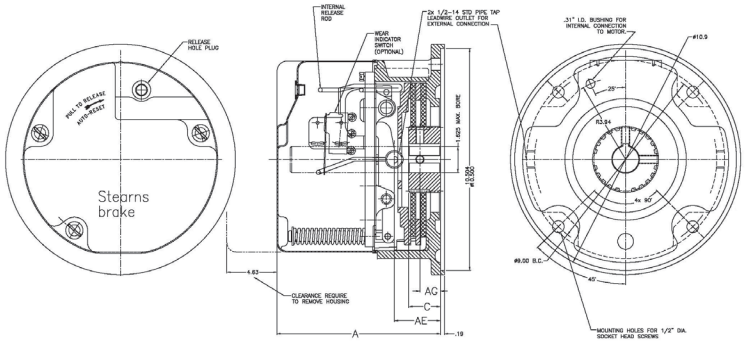
## Technical Information

Accepted by Motor Manufacturers & UL Recognized

87,T00




87,P00




| Technical Characteristics | Frame Size | Model Number | Torque | Approx. Weight |
|---|---|---|---|---|
| **Series: 87,T00** | | | | |
| SAB 87,T00 | 182TC - 256TC | 1-087-T12-X0-XXX | 10 lb-ft | 26 lbs |
| SAB 87,T00 | 182TC - 256TC | 1-087-T22-X0-XXX | 15 lb-ft | 27 lbs |
| SAB 87,T00 | 182TC - 256TC | 1-087-T32-X0-XXX | 25 lb-ft | 27 lbs |
| SAB 87,T00 | 182TC - 256TC | 1-087-T42-X0-XXX | 35 lb-ft | 30 lbs |
| SAB 87,T00 | 182TC - 256TC | 1-087-T52-X0-XXX | 50 lb-ft | 32 lbs |
| SAB 87,T00 | 182TC - 256TC | 1-087-T62-X0-XXX | 75 lb-ft | 34 lbs |
| SAB 87,T00 | 182TC - 256TC | 1-087-T82-X0-XXX | 105 lb-ft | 38 lbs |
| SAB 87,T00 | 182TC - 256TC | 1-087-T92-X0-XXX | 125 lb-ft* | 38 lbs |
| **Series: 87,P00** | | | | |
| SAB 87,P00 | 284 - 286TC/UC | 1-087-P52-X0-XXX | 50 lb-ft | 33 lbs |
| SAB 87,P00 | 284 - 286TC/UC | 1-087-P62-X0-XXX | 75 lb-ft | 36 lbs |
| SAB 87,P00 | 284 - 286TC/UC | 1-087-P82-X0-XXX | 105 lb-ft | 42 lbs |
| SAB 87,P00 | 284 - 286TC/UC | 1-087-P92-X0-XXX | 125 lb-ft* | 42 lbs |

* Please not that the 125 lb-ft option is ONLY available for holding applications
[1] Accepted by motor manufacturers & UL recognized

**stearnsbrakes.com**
414-272-1100

© Stearns. Stearns is a division of Regal Rexnord. 