

## **High torque, zero backlash brake for indexing and positioning systems**

*Wemmel, Belgium, August 2017.* Nexen Group, Inc. introduces a new indexer brake, the model I-300. The spring engaged, air released, power-off brake provides high torque for backlash-free holding and emergency stopping on indexers and positioning systems.

Designed for zero backlash holding and emergency stopping, the I-300 brake is ideal for indexers and positioning systems. The spring-engaged, air-released, patented braking element locks and holds the shaft in position without any displacement or reversing of the load. It is flange- or shaft-mounted and has a keyless compression bushing shaft connection for easy installation; when flange-mounted, it is IP67-rated. High torque and short response time ensure the shortest possible stopping distance and precise holding. Brakes can be stacked for additional holding power or redundant braking.

Key features for the I-300 brake include zero backlash for precise holding, high dynamic torque of 600 Nm (5300 in-lbs.), and torsional stiffness of 8,341,193 Nm/rad (6,152,148 ft-lbs. per radian). The brake is spring engaged and air released with a pressure of 4.1 bar (60 psi), the engagement response time is 85 milliseconds. The I-300 is stackable for double the braking torque. Horizontal or vertical mounting is possible. The brake mounts to a bearing supported shaft, the flange mounts to the machine frame.

Nexen produces roller pinion systems, industrial brakes, clutches, torque limiters, overload protection devices and control systems. The company is headquartered in the USA, with their European office based in Wemmel, Belgium. Nexen holds 120 US and international patents. The products are available from over 40 sales offices and more than 1,500 distributor outlets worldwide.

### **Summary of key features:**

- Zero backlash for precise holding
- High dynamic torque: 600 Nm (5300 in-lbs.)
- Torsionally stiff: 8,341,193 Nm/rad (6,152,148 ft-lbs. per radian)
- Spring engaged, air released: 4.1 bar (60 psi)
- Engagement response time: 85 milliseconds
- Stackable for double the braking torque
- Horizontal or vertical mounting

- Flange mounts to machine frame
- Mounts to a bearing supported shaft

**Picture:**

High torque, zero backlash brake I-300 from Nexen for indexing and positioning systems

**About Nexen Group, Inc.:**

Nexen Group, Inc. is a worldwide leader in power transmission, linear and rotary motion, and tension control components. Nexen holds 120 US and international patents. A privately held company, Nexen traces its origins back to 1902. For nearly 50 years, Nexen has been producing industrial brakes, clutches, torque limiters, overload protection devices and control systems for a variety of industrial applications ranging from packing equipment to sawmills and automobile conveyor systems. Nexen's customers span every industry – from multi-national corporations to small businesses – and range from design engineers to plant maintenance. Headquartered in the USA and with the European office based in Wemmel, Belgium, Nexen has more 40 sales offices and more than 1,500 distributor outlets worldwide.

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