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Shaft-Mounted Clutch-Brake

LSCB-44HT

Nexen's high torque, air-to-spring clutch-brake is the ideal solution for repetitive start/stop conveying applications. Innovative engineering has combined unsurpassable clutch and brake performance in a compact unit with easy integration into any system.

Mounted on the roller shaft of an accumulating conveyor, LSCB-44HT clutch-brakes provide positive stopping and holding. Nexen's splined hub design assures full brake torque to the system. Both clutching and braking components utilize the same piston to eliminate simultaneous engagement. Because the clutch release springs also serve as the brake engagement force, the brake automatically engages as the clutch releases for fast, dependable stopping and holding. With simple design, high torque and low cost, the LSCB-44HT is the obvious choice for motion control on material handling conveyor systems.



LSCB-44 High Torque Model



- Clutch Torque: 178 Nm at 5.5 bar [1575 in-lb at 80 psi]
- Brake Torque: 18 Nm [160 in-lb] at zero air pressure
- Bore range: 12-32 mm [0.500-1.250 in]
- Single piston design eliminates possibility of clutch-brake overlap
- Brake engagement stops LSCB hub
- Variable mounting configurations: customer supplied sprocket or can be configured for sheave, plate or double-single sprocket or timing belt sprocket
- Open design for improved airflow and high heat dissipation
- Internal spline drive for trouble-free disengagement performance
- Shielded ball bearings standard for zero drag torque— viscosity of bearing grease creates negligible drag torque (sealed bearings also available)
- No rotary air union required
- Field repairable o-rings, facings and springs
- Through-shaft design with three set screws for easy mounting

