

Rotor Brake systems provide pressurized fluid to the brake caliper by activating an operator handle to slow the rotation of the Helicopter rotor blades for engine shutdown or startup. Master cylinders, reservoirs, accumulators, control valves, and servicing provisions are included in many systems.

Operational Characteristics:

- Provides hydraulic pressure and stored volume to actuate and hold a brake caliper to prevent movement of helicopter rotor blades
- Operated by mechanical handle (integral or remote)
- Detent provided in “Unlocked” position and locking device provided to hold lever in “Locked” position

Major Components

- Mechanical operator and linkage
- Spring loaded accumulator
- Housing
- Actuating piston
- Service features
- Valves



Design Characteristics:

- Operating pressure up to 1,000 psig
- Dual output pressures available, solenoid actuated
- Bypass features can compensate for normal brake wear
- Multiple mounting options

Platforms

H-60 Series
S-76
Bell 525

Who Is Arkwin?

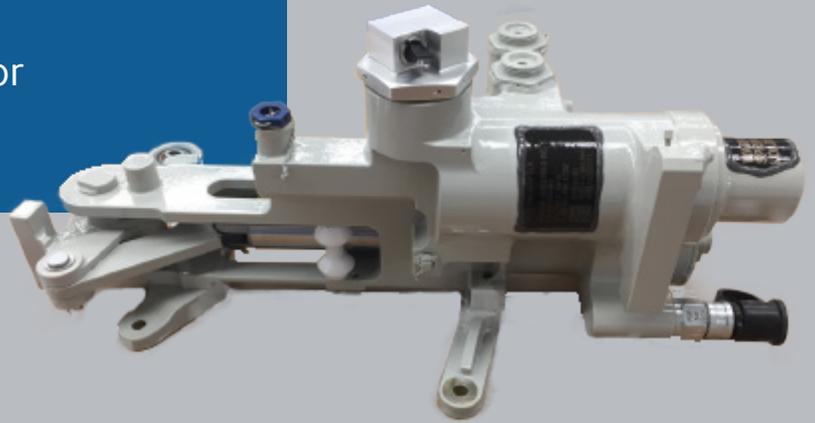
Arkwin Industries is the technical expert in all things hydraulic for aerospace and defense. We design, test, manufacture, and support precision hydraulic and fuel system components for civil and military fixed-wing aircraft, helicopters, spacecraft, turbine engines, and other special applications.

Our reputation for quality and reliability, as well as our location, allow us to attract some of the best engineering, technical, and manufacturing talent available.

Sample Brake Components



S-76 Rotor Brake Accumulator



Bell 525 Rotor Brake Master Cylinder

Key Features

- Side load tolerant piston and cylinder
- Relief Valves
- Spring loaded accumulator
- Air over oil reservoir
- Vent valves
- Detent and locking assemblies
- Service, fill, and bleeding provision
- Fill level sight glass



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