

Aircraft manufacturers have been selecting Arkwin Industries for over 60 years to design and manufacture a wide variety of utility actuators for civil and military applications. Arkwin's expert engineering team uses the latest design software to convert concepts into reality for a multitude of installations.

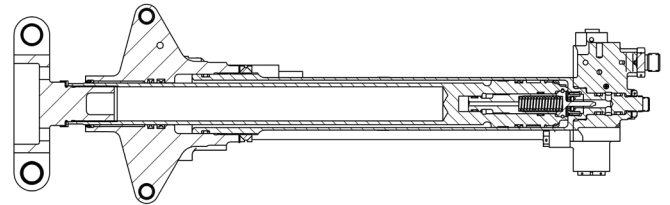
Arkwin has designed and manufactured over 125 unique hydraulic actuator designs, incorporating numerous customer options to fit customer specifications.

Applications include:

- Thrust Reversers
- Ramp operation
- Landing gear and utility door operation
- Landing gear retraction
- Ram Air Turbine operation

Platforms

A320	HA-420	F-22
A330	C-141	F-35
B717	CH-53E	H-92
B777	CH-53K	S-76
CF6	F-16	V-22



Operational Characteristics

- Multiple integrated control features for flow and directional control
- Integral system filtration features
- Manual and solenoid control
- Extremely low leakage characteristics

Design Characteristics

- Operating pressures up to 5,000 psig
- Linear position sensing transducers
- 3"+ diameter bores and 25"+ strokes
- Multiple mounting options
- End of stroke velocity controls
- Advanced locking mechanisms
 - Various types: roller pawl locks, toggle locks, slider locks
 - Visual and electrical lock indication
 - Position sensing and lock integration
 - Unlocking with loads up to 20,000 pounds



Selected Actuators

Part Number	Bore Diameter	Rod Diameter	Stroke	Operating Pressure (PSI)	Locks	Retracted Length	Mounting	Application	Platform
1211495	0.864"	0.747"	12.80"	5000	Extend Slide/Pawl	19.78"	Sph. Bearing	Ramp Door	V-22
1211350	1.054"	0.811"	10.46"	3000	None	14.70"	Clevis	Cowl Door	CF6
1211444	1.179"	0.747"	14.041"	3935	None	17.633"	Gimbal	Lower C Duct	MD90/ V2500
1211243	1.492"	0.746"	1.72"	3000	Extend Roller/Pawl	7.38"	Sph. Bearing	Ground Spoiler	B737
1211252	1.617"	.872"	8.04"	3000	None	16.65"	Sph. Bearing	Thrust Reverser	G-III
1211180	1.679"	0.747"	6.80"	3000	Retract Roller/Pawl	12.92"	Sph. Bearing	Nose Gear	F-16
1211647	1.806"	0.997"	5.635"	4000	Retract Pawl	12.07"	Clevis Head End Sph. Bearing	Equipment Door	F-35
1211176	1.993"	0.999"	9.75"	3000	Retract Roller/Pawl	16.25"	Sph. Bearing	MLG Door & Uplock	F-16
1211471	2.119"	1.006"	5.71"	3900	None	13.10"	Trunnion	Aileron	C-141
1211538	2.494"	1.497"	8.607"	3000	Extend Slide/Pawl	18.203"	Sph. Bearing	Thrust Reverser	G-IV

Key Features

- All Arkwin locks feature multiple pawl configurations manufactured from beryllium copper or high strength steel
- Proven designs capable of >250,000 cycles with high external loads applied
- Low unlock pressures
- High durability with minimal material wear
- Lock hydraulic signal referenced to return pressure which minimizes the potential for pressure spikes to inadvertently unlock the actuator



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