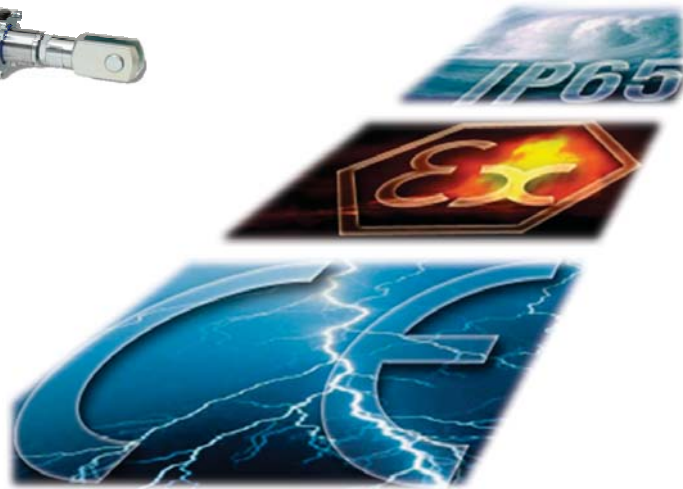
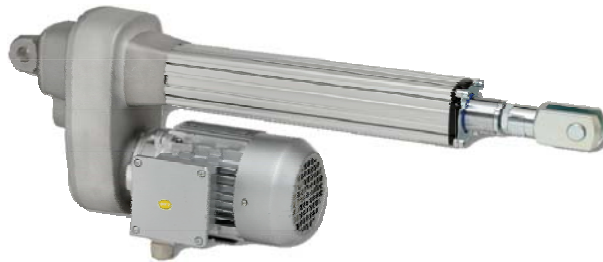
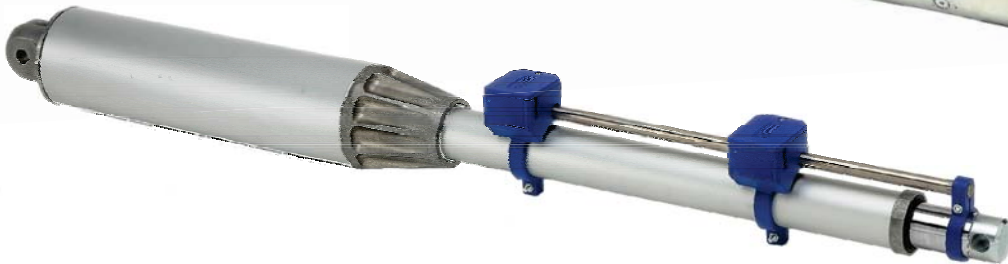


- Over 30 YEARS Supplying Africa -

# BirCraft

GEARED MOTORS - LINEAR ACTUATORS - CONTROLS



# Linear Actuators

## Electro-mechanical Cylinders

## Electronic Drives

National Sales: **0861 BirCraft** (24 72 72) E-mail: [10@bircraft.co.za](mailto:10@bircraft.co.za) Website: [www.bircraft.co.za](http://www.bircraft.co.za)

International Tel. +27 11 468 1881 Fax: +27 11 468 1698 Fax: 086 694 5806 Cell: 074 465 1744

**BEE Certified**

# Linear Actuators

## Applications:

- Industrial Mining Equipment - Agricultural Machinery - Harbour Equipment - Step Away Bridges
- Solar Applications - Solar Panel Tilting - Sun Shading Systems - Parabolic Antennas
- Medical Applications - Radiology Equipment - Stair Lifts - Fold Away Stairs - Door Openers & Closers
- Military Applications - Armoured Vehicles - Aeronautical Industry - Civil Aviation
- Fitness Machines - Train Switching Systems - Industrial Dish Washers & Catering Equipment
- Tyre Assembly Machines - Serigraphic Machines - Plastic Material Blowing Machines

## HIGHER SPEED = LOWER FORCE

i.e. The faster the stroke speed the less the output force

### L 02-L 03



IP65 CE

**Max force:** 5 000 N / 500 Kg  
**Max speed:** 100 / 30 mm/s  
**Stroke:** up to 800 mm  
**Supply Voltage:** 12-24 Vdc  
**Options:**  
 Magnetic Limit Switches,  
 Encoder, Safety Nut

### ALI 1



IP65 CE

**Max force:** 1 200 N / 120 Kg  
**Max speed:** 90 mm/s  
**Stroke:** up to 300 mm  
**Supply Voltage:** 12-24-36 Vdc  
**Options:**  
 Limit Switches, Encoder

### ALI 1-P



IP65 CE

**Max force:** 2 500 N / 250 Kg  
**Max speed:** 17 mm/s  
**Stroke:** up to 300 mm  
**Supply Voltage:** 12-24-36 Vdc  
**Options:**  
 Limit Switches, Encoder

### ALI 2



IP65 CE

**Max force:** 2 500 N / 250 Kg  
**Max speed:** 110 mm/s  
**Stroke:** up to 700 mm  
**Supply Voltage:** 1ph-3ph Vac or Vdc  
**Options:**  
 Limit Switches  
 (Magnetic or Mechanical),  
 Rotary Potentiometer,  
 Encoder, Safety Nut

### ALI 2-P




IP65 CE

**Max force:** 3 500 N / 350 Kg  
**Max speed:** 30 mm/s  
**Stroke:** up to 700 mm  
**Supply Voltage:** 12-24-36 Vdc  
**Options:**  
 Limit Switches  
 (Magnetic or Mechanical),  
 Rotary Potentiometer,  
 Encoder, Safety Nut

### ALI 3




IP65 CE

**Max force:** 5 000 N / 500 Kg  
**Max speed:** 35 mm/s  
**Stroke:** up to 800 mm  
**Supply Voltage:** 1ph-3ph Vac  
 12-24-36 Vdc  
**Options:**  
 Limit Switches  
 (Magnetic or Mechanical),  
 Rotary Potentiometer,  
 Encoder, Safety Nut,  
 Various Motor Types, 

### ALI 4




IP65 CE

**Max force:** 10 kN / 1 000 Kg  
**Max speed:** 100 mm/s  
**Stroke:** up to 1100 mm  
**Supply Voltage:** 1ph-3ph Vac  
 24 Vdc  
**Options:**  
 Limit Switches  
 (Magnetic or Mechanical),  
 Encoder, Rotary Potentiometer,  
 Safety Nut,  
 Various Motor Types, 

### ALI 5



IP65 CE

**Max force:** 15 kN / 1 500 Kg  
**Max speed:** 100 mm/s  
**Stroke:** up to 1400 mm  
**Supply Voltage:** 1ph-3ph Vac or Vdc  
**Options:**  
 Limit Switches  
 (Magnetic or Mechanical),  
 Encoder,  
 Rotary Potentiometer,  
 Safety Nut,  
 Various Motor Types, 

# Electro-mechanical Cylinders

**CUSTOM DESIGNED UNITS AVAILABLE UPON REQUEST**

**Fitted with VARIOUS MOTOR OPTIONS:**


- DC Motors (All Voltages) - Brake Motors - Stepper Motors -
- Servo Motors - Synchronous Motors - Dust Proof Motors -
- Spark Proof Motors - Explosion Proof and many others -

## ALI 5-P



IP65 

**Max force:** 15 kN / 1 500 Kg  
**Max speed:** 250 mm/s  
**Stroke:** up to 1400 mm  
**Supply Voltage:** 1ph-3ph Vac  
90 Vdc

**Options:**  
Limit Switches  
(Magnetic or Mechanical),  
Encoder, Safety Nut,  
Various Motor Types, 

## AV 3



**Max force:** 25 kN / 2 500 Kg  
**Max speed:** 55 mm/s  
**Stroke:** up to 1100 mm  
**Supply Voltage:** 1ph-3ph Vac  
**Options:**  
Limit Switches,  
Rotary Potentiometer,  
Encoder,  
Various Motor Types

## ECV 9092



**Max force:** 40 kN / 4 000 Kg  
**Max speed:** 45 mm/s  
**Stroke:** up to 1500 mm  
**Supply Voltage:** 1ph-3ph Vac  
**Options:**  
Limit Switches,  
Rotary Potentiometer,  
Encoder,  
Various Motor Types

## EC 1



**Max force:** 5 kN / 5 000 Kg  
**Max speed:** 230 mm/s  
**Stroke:** up to 800 mm  
**Supply Voltage:** 1ph-3ph Vac  
**Options:**  
Limit Switches,  
Rotary Potentiometer,  
Encoder, Hand-wheel,  
Various Motor Types

## EC 2



**Max force:** 10 kN / 1 000 Kg  
**Max speed:** 230 mm/s  
**Stroke:** up to 1000 mm  
**Supply Voltage:** 1ph-3ph Vac  
**Options:**  
Limit Switches,  
Rotary Potentiometer,  
Encoder, Hand-wheel,  
Various Motor Types

## EC 3



**Max force:** 15 kN / 1 500 Kg  
**Max speed:** 230 mm/s  
**Stroke:** up to 1200 mm  
**Supply Voltage:** 1ph-3ph Vac  
**Options:**  
Limit Switches,  
Rotary Potentiometer,  
Encoder, Hand-wheel,  
Various Motor Types

## EC 4



**Max force:** 30 kN / 3 000 Kg  
**Max speed:** 60 mm/s  
**Stroke:** up to 1500 mm  
**Supply Voltage:** 3ph Vac  
**Options:**  
Limit Switches,  
Rotary Potentiometer,  
Encoder, Hand-wheel,  
Various Motor Types

## EC 5



**Max force:** 50 kN / 5 000 Kg  
**Max speed:** 15 mm/s  
**Stroke:** up to 1800 mm  
**Supply Voltage:** 1ph-3ph Vac  
**Options:**  
Limit Switches,  
Rotary Potentiometer,  
Encoder, Hand-wheel,  
Various Motor Types

**Larger & Heavier Duty Units Available - up to 1 00 kN / 10 000 Kg**

**PLEASE NOTE: ALL RATINGS GIVEN AS MAXIMUM**

# Electronic Drives

**PF 0014**  
**PF 0015**



**Drive for 1 actuator with 24Vdc motor**  
**Power Supply:** 230V - max 4A  
(for 24Vdc motors)  
Amperage Limitation  
Sound or light signal of movement  
Infrared Remote control – 2 buttons

**PF 0016**



**Drive for 2 actuators with 12Vdc motor**  
**Power supply:** 12Vdc +/-10%  
4-28A (for 12Vdc motors)  
Stroke Limits Control  
Amperage Limitation  
Radio Remote Control – 4 buttons

**PF 0025-27**  
**PF 0026-28**





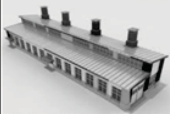





**Drive for 1 or 2 actuators with 12/24Vdc motor**  
**Power Supply:** Max 10Amp  
12 - 40Vdc / 9...28Vac (for 24Vdc motors)  
12Vdc +/-10% - (for 12Vdc motors)  
**Driver Supply:** 20...30Vdc / 16...20Vac - 0.4A  
Max (for 24Vdc)  
12Vdc +/-10% - 10A  
Max (for 12Vdc)  
Stroke Limits Control  
Amperage Limitation

## Screw Jacks



### Applications

	Agricultural machinery Wood working machinery	Atomisers Cereal mills	Bronzing & tanning beds Gymnasium equipment Animal tapis roulants	
	Armoured vehicles Railway wagons Van tents	Ambulances Caravans	Power boats Harbour equipment	
	Paint mixing equipment Iron and Steel industry Industrial Mining Equipment	Nuclear installations Butchering equipment	Banking automation	
	Surgery tables Dentist chairs X-ray equipment	Equipment for disabled/aged Foldaway staircases Civil Protection	Heliostats Ski-field installations Solar panels	

### Other Products

DC Motors   Geared Motors   Controls   Variable Speed Motors   Tacho's   Encoders   Brake Motors  
Solar Motors   Low Voltage Motors   Washdown Motors

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Website: [www.bircraft.co.za](http://www.bircraft.co.za) E-mail: [01@bircraft.co.za](mailto:01@bircraft.co.za) Intl. Tel. +27 11 468 - 1881 / 2267 / 2252 / 2235

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