Linear Actuator Requirement Sheet

Fill in this sheet with as much detail about your requirement as possible.
Once complete, please attach it in an email and send to sales@kelstonactuation.com.
A design engineer will then be in touch to discuss your project.

Contact Details

Your company name:	
Your name/position	
Company address	
Telephone	
Email address	

Performance Requirements

Mounting position of Actuator	Vertical Horizontal Moving through arc	☐ ☐ ☐
Actuator mounting orientation	Upright Inverted	☐ ☐
Mounting Type Fixing - Ram Tube End	Clevis Gimble/U-J Flange Trunnion Other	☐ ☐ ☐ ☐ ☐
Mounting Type Fixing - Main Driver Body End	Clevis Gimble/U-J Flange Trunnion Other	☐ ☐ ☐ ☐ ☐
Sense of applied load	Compression Tension Tension/Compression	☐ ☐ ☐

KELSTON

Load Characteristics

Number of Actuators in the system		
Total Dynamic load		kN
Total Static load		kN

Max dynamic load/unit	Compression		kN
	Tension		kN
Max static load/unit	Compression		kN
	Tension		kN
Mean load			kN
Does Load Change Thoughout Stroke		Yes/No	
Ram Travel			mm
Linear speed for outward travel - Max			mm/min
Dwell time			min
Linear speed for inward travel - Max			mm/min
Dwell time			min

Is outward travel continuous?		Yes/No	
If NO how many stops ___# Dwell time		Qty	min
Is inward travel continuous?		Yes/No	
If NO how many stops ___# Dwell time		Qty	min
Dynamic movement ?(please explain)			
Number of cycles per hour			Qty
Number of cycles per day			Qty
Number of working days per year			Qty
Number of years of expected life			Qty
Backlash Tolerance?			mm
Is there any vibration in the structure?		Yes/No	
Is human cargo being carried?		Yes/No	
Can the structure impose side loads by		Yes/No	
	Expanding	☐	
	Contracting	☐	
	Deflecting	☐	

Is the system guided? (recommended)	Yes/No	
Is a special closed height required?	Yes/No	

Environmental Conditions

Clean Room	☐
Outside	☐
Dusty	☐
Icy	☐
Direct sunlight	☐
High humidity - If yes what %	☐
Marine	☐
Wet	☐
Corrosive	☐
Radioactive	☐

Operating temperature -	MIN		°C
	MAX		°C
Altitude above sea level			metres
Noise level limit			dBA @ 1 metre
Ingress protection code			IP

Prime Mover

Kelston Supply	☐
Electric motor	☐
Servo	☐
Hydraulic motor	☐
Pneumatic motor	☐
Hand Wheel	☐
Is brake required?	☐

Controls

Position control devices required	Encoder	☐
	Limit Switches	☐
	Proximity Switches	☐
Is control system required?	Yes/No	

If YES give a brief description below

Undefined or Special Requirements

Proposed Layout of System

Calculations