



## 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 Throughout 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

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Undefined or Special  
Requirements

Proposed Layout of System

Calculations