Screw Jack Application Worksheet
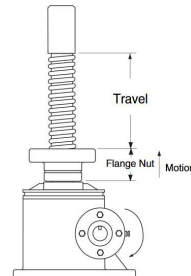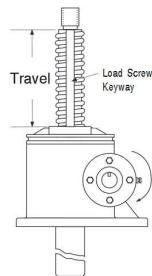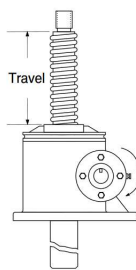
Company information:

Company: _____

Contact: _____

Email: _____ Phone: _____

Address: _____

Please provide a brief description of your project: _____

_____

Screw jack type and mounting configuration:

Orientation: ☐ vertical   ☐ horizontal

Direction: ☐ upright   ☐ inverted

Type: ☐ translating   ☐ keyed translating   ☐ rotating (traveling nut)

No. of screw jacks in the system:

☐ single jack system   ☐ multiple jack system (No. of screw jacks in the system): _____

What is your configuration? Please provide a drawing and screw jack center distances: _____

Application loads:

	Axial load			
	Total system		Per spindle	
	Dynamic [kN]	Static [kN]	Dynamic [kN]	Static [kN]
Compressive load				
Tensile load				

Load guidance:

☐ fully guided   ☐ partially guided   ☐ not guided

Type of loading:

☐ steady   ☐ oscillating   ☐ shock   ☐ increasing   ☐ vibrating

Stroke (travel distance) and travel rate:

Stroke ☐ [mm] ☐ [in]: _____ Lifting/lowering speed ☐ [mm/min] ☐ [in/min]: _____

Duty cycle:

Application information:

Usage per day in hours:	☐ 8		☐ 16		☐ 24		☐ _____	
Working cycle: actual in		☐ sec	☐ min					
Lifting								
Lowering								
Idle								
					Total cycle time			
ED (duty cycle) = operating time per cycle / cycle time [%]								
					Cycles per working day			

Example:

Usage per day in hours:	☐ 8		☐ 16		☐ 24		☐ _____	
Working cycle: actual in		☒ sec	☐ min					
Lifting	4							4
Lowering			2		2			4
Idle		10		10		12		32
					Total cycle time			40
ED (duty cycle) = operating time per cycle / cycle time [%]								20
					Cycles per working day			10

Operational conditions:

Environmental temperatures ☐ [°F] ☐ [°C]: from _____ to _____

☐ dry   ☐ humid   ☐ dusty (define material): _____   ☐ other effects: _____

Adjustment:

☐ manual   ☐ motorized

Have you already selected your motor?   ☐ yes (please provide make and model): _____

☐ no (type of motor desired): _____

Would you like Candy Controls to select a motor adapted to your application?   ☐ yes   ☐ no

Input form:

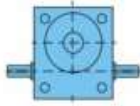*Single input configurations:*

☐ right shaft   ☐ left shaft

Double input configurations:

☐ double shaft

☐ right flange   ☐ left flange

☐ right flange, left shaft   ☐ left flange, right shaft

End of screw options:

☐ top plate   ☐ threaded end   ☐ clevis end   ☐ forked end   ☐ plain end

Accessories:

☐ steel protective tube   ☐ rubber bellows   ☐ handwheel   ☐ other: _____

☐ connecting shafts   ☐ couplings   ☐ spiral bevel gearbox

Requirements:

Number of sets: _____   Quantity per year: _____

Required delivery: _____

Feel free to provide any additional drawing of your application to help us assist you.

Thank you for your inquiry, time, and consideration of Candy Controls.