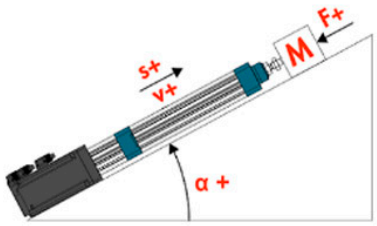
Electric Cylinders	Company	
	Compiled by	
	Date	



Cycle Time										
Description										
Phase No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Stroke (mm): + : piston rod out, – : piston rod in										
Time (s)										
Inclination (°) 0° horizontal, +90° upward vertical, –90° downward vertical										
External force (N) + : pushing piston rod, - : pulling piston rod										
Mass to displace (kg)										
Coefficient of friction between load and support or coupling types (ball guide bushing, sliding guide bushing, etc.)										
Cycle frequency (cycles/min)										
Total cylinder stroke (mm)										
Any space limitations										
Axis must work "in position" mode (i.e. reaching a defined position, reacting against external forces), or "in torque" mode (i.e. pushing with controlled force against external obstacles in position not defined)?	☐ Torque ☐ Position									
IT'S REQUIRED A FEED-BACK CHECK OF:										
Force (N) (brushless motor)	☐ Yes ☐ No									
Position (mm) (stepping with encoder or brushless)	☐ Yes ☐ No									
No. of hours/day worked (h/d)										
Temperature °C / Humidity										
Free or Non-Rotating piston rod? (Round DC cylinder has no antirotation version)	☐ Integrated into the cylinder ☐ External by the customer									
Protection rate (IP)	☐ IP40 ☐ IP55 ☐ IP65									
"In-Line" or "Geared" motor? (where applicable)	☐ In line ☐ Geared									
Need for piston rod braked with motor off (for Round DC cylinder the screw pitch 4 is irreversible)	☐ Yes ☐ No									
Motor	☐ Metal Work ☐ Client ☐ To be evaluated (produce both solutions)									
Available supply voltage										
The control will be done with:	☐ PLC with step-dir board and "Line Driver" signals ☐ PLC with step-dir board and "Open Collector" signals ☐ PLC with brushless axis board ☐ There is no PLC									
Field BUS, if any										
Short description, notes and draw of the possible application:										