Profilex s.a.
Z.I. In den Allern 6b
L-9911 Troisvierges
Tel. Lu. +352 99 89 06
Tel. Be. +32 2 888 16 29
Fax. +352 26 95 73 73
Email info@profilex-systems.com

To LinMot customers: Request for LinMot sizing

Date*	
Project name*	
Expected LinMot commissioning date*	
Expected LinMot quantity*	

Company Name*	
First Name*	
Last Name*	
Phone number*	
Email Address*	
Address*	
Zip Code*	
City*	
Country*	

** Mandatory fields*

Dear customer,

We thank you for your interest in our LinMot products.

In order to offer you a motor/system corresponding to your needs, we need information about your application.

Any additional information about the application is also welcome.

If information is missing at this time, leave the field empty, however, keep in mind that missing information may influence the results of the motor sizing.

May we ask you to answer the following questions as precisely as possible.

1. ***Please describe the task that the motor has to perform with as much details as possible.***

   ……
   ……
   ……
   ……
   ……
   ……

2. ***Please describe the working cycle (e.g. + 30mm within 40ms, 1000ms standstill, -20mm within 100ms, 50ms standstill, -10mm within 20ms, 3000ms standstill, end of first cycle). If there is not really a well-defined cycle, please describe the task that the motor has to perform as precisely as possible (for example please indicate whether there is an additional effort required at a particular position, ...***
   If there is one, please also indicate standstill times after each cycle. Standstill times during which the motor must not produce effort are very important for sizing.

   ……
   ……
   ……
   ……
   ……
   ……

3. ***Is there any additional standstill time after a certain number of cycles (e.g. 200 cycles then 1min standstill time without work before the next 200 cycles)?***

   ……
   ……

4. ***What is the number of cycles per year?***

   ……

5. ***What is the additional moved mass (mass of the whole moving parts that the motor should move without LinMot parts)?***

   ……
   ……

6. ***What is the maximal stroke (without reserve)?***

   ……

7. ***Is there a desired stroke reserve?***

   ……

8. ***What is the required motor cable length?***

   ……

9. ***Will the motor cable be subject to any motion?***

   ……

   If so, would it be subject to roll-up motions?

   ……

   If so, would it be subject to torsional motions?

Profilex s.a. – 6b, Z.I. In den Allern – 9911 Troisvierges Luxembourg
Tel BE: +32(0)28881629 – Tel LU: +352998906 – Fax: +35226957373
Email: info@profilex-systems.com

……

10. ***Is a specific accuracy required at target positions?***

……

11. ***What is the working angle of the motor (horizontal, vertical, defined angle)?***

……

12. ***For vertical applications, will the motor be placed above or below the product?***

……

13. ***Is the mounting space a critical point in your application?***

……

If so, what are the maximal allowed width, height and length?

……

14. ***Is there any constant axial force on the slider (e.g : magnetic spring with constant force, ...)?***

……

15. ***Is an external linear guide already planned/available or provided?***

……

16. ***Is there any variable axial force on the slider (e.g : standard mechanical spring with linear force/stroke relationship, ...)?***

……

If so, please describe as precisely as possible the system.

……

17. ***At the end of a move, does the motor have to press against something with a certain force?***

……

If so, what is the required force, direction and how long do we have to keep it?

……

18. ***Are there any radial forces on the slider?***

……

19. ***Is an anti-rotation system required for the slider or can it be free in rotation (with linear motors, the shaft is free in rotation)?***

……

20. ***Are there already known friction forces or estimated friction forces***

……

21. ***What is the environment temperature close to the motor?***

……

22. ***Would the motor be subject to special environment conditions?***

    ……

    Please describe the environment conditions (standard, dust, liquid spray, immersion in liquids, textile fibres, harsh environment, ...).

    ……
    ……
    ……

23. ***Do you have to work in a clean room?***

    ……

24. ***Do you have to work in food industry?***

    ……

25. ***Do you need at least a certain IP protection class (e.g. : IP67, IP69).***

    ……

26. ***Would the motor be cleaned with chemical products?***

    ……

    If so what kind of products?

    ……

27. ***Is it eventually possible to use a LinMot fan for additional cooling if it is absolutely required (or fluid cooling with LinMot IP69 motors)?***

    ……

28. ***What is the required interface for the communication between the LinMot drive and the main system like PLC, PC, ... (Basic 24VDC DI/DO, AI, Profinet, EtherCAT, Sercos III, Ethernet IP, ...)?***

    ……
    ……

29. ***Is a synchronisation with other systems required (electronic Cam, conveyor belt, ...)?***

    ……
    ……

A picture or a sketch of the application could also be useful for us to ensure there is no other point we have to consider.

We thank you for your collaboration and remain at your disposal for any question.

Best Regards,

Profilex Team