

Product Recommendation Information Sheet

Rack-and-Pinion

Desired Product ● If you have no desired product, leave the applicable fields blank. We will call you if necessary.

Desired Motor(s)

- α*STEP**
 Stepper Motor
 Servo Motor
 Brushless Motor
 AC Motor
 Others

Moving Form

- Rack moving type with pinion side fixed
 Pinion side moving type with rack side fixed (Motor side moving type)

Drive Mechanism Specifications ● If in doubt, leave the applicable fields blank. We will call you if necessary.

- Total Mass of Load and Table

m_1	=		kg
-------	---	--	----
- Guide Friction Coefficient.....

μ	=		
-------	---	--	--
- Mass of Rack.....

m_3	=		kg
-------	---	--	----
- Pitch Circle Diameter of Pinion

D_P	=		mm
-------	---	--	----
- Mass of Pinion.....

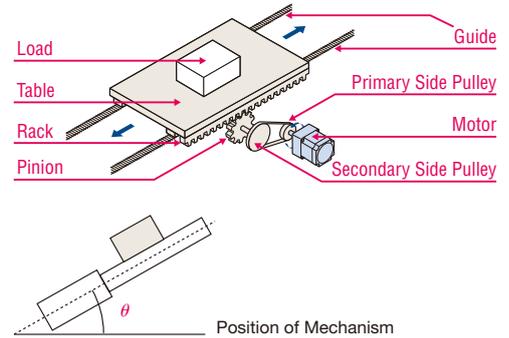
M_P	=		kg
-------	---	--	----
- Pinion Width (Thickness).....

L_P	=		mm
-------	---	--	----
- Pinion Material.....

Materials:			
------------	--	--	--
- Inclination Angle of the Mechanism ..

θ	=		deg.
----------	---	--	------
- External Force Applied (External force)

F_A	=		N
-------	---	--	---



Please enter if you use connecting belt pulley or gear. Not required for direct connection.

- Primary Side Pulley Diameter and Mass

D_{P1}	=		mm
----------	---	--	----

m_{P1}	=		kg
----------	---	--	----

 ● If the mass is unknown, please enter the width and material. →

L_{P1}	=		mm
----------	---	--	----

Materials:			
------------	--	--	--
- Secondary Side Pulley Diameter and Mass...

D_{P2}	=		mm
----------	---	--	----

m_{P2}	=		kg
----------	---	--	----

 ● If the mass is unknown, please enter the width and material. →

L_{P2}	=		mm
----------	---	--	----

Materials:			
------------	--	--	--
- For electric linear slide sizing, use the specific request form.

Operating Conditions ● If in doubt, leave the applicable fields blank. We will call you if necessary.

- Travel Amount per Operation

		mm
--	--	----
- Positioning Time.....

t_0	=		s
-------	---	--	---
- Desired Acceleration and Deceleration Time...

t_1	=		s
-------	---	--	---
- Stop Time

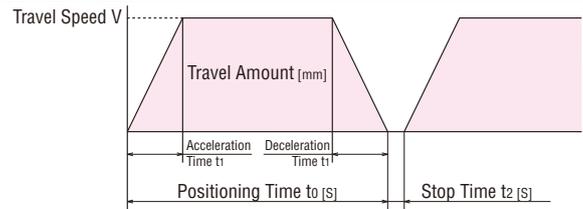
t_2	=		s
-------	---	--	---
- Desired Travel Speed (If any).....

V	=		mm/s
-----	---	--	------
- Desired Stopping Accuracy (If any) ...

\pm		mm
-------	--	----
- Power Supply Voltage

	$V,$		Hz
--	------	--	----
- Necessity of Holding Force After Power is Turned off

<input type="radio"/> Yes	<input type="radio"/> No
---------------------------	--------------------------



Others

- Application, Equipment Name.....
- Estimated Number of Units to be Used unit(s)
- Estimated Purchase Date
- Supply Source (Sales office)
- Other (Requests, Contact information, Items not written above, etc.)