Product Recommendation Information Sheet

Motor: Rack-and-Pinion Drive

Required Product

● Leave blank and send if you have no request. We will call you back.

☐ Induction Motor, Reversible Motor, Electromagnetic Brake Motor, etc. ☐ AC Speed Control Motor
☐ Brushless Motor ☐ Stepping Motor ☐ Servo Motor

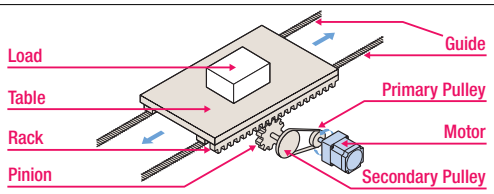
Traveling Type

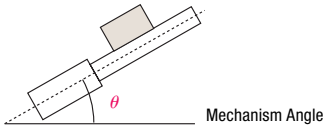
☐ Rack Moving Type Fixing to Pinion ☐ Pinion Moving Type Fixing to Rack (Motor Moving Type)

Drive Mechanism Specifications

● Leave blank and send if there is anything unclear. We will call you back.

● Total Mass of Load and Table	m_1 =		kg
● Friction Coefficient of the Guide	μ =		
● Rack Mass	m_3 =		kg
● Pitch Circle Diameter of Pinion	D_P =		mm
● Pinion Mass	M_P =		kg
● Pinion Width (Thickness)	L_P =		mm
● Pinion Material	Material:		
● Mechanism Inclination Angle	θ =		deg.
● External Force on Table	F_A =		N





Please indicate if using a connection belt pulley or gear. Not necessary if it's a direct connection.

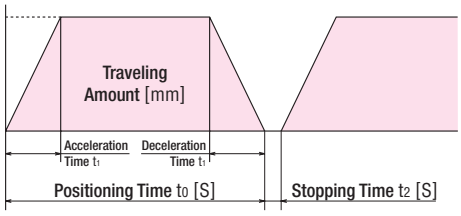
● Primary Pulley Diameter and Mass	D_{P1} =	mm	m_{P1} =	kg		
● When the mass is unknown, please enter the width and material.→			L_{P1} =	mm	Material:	
● Secondary Pulley Diameter and Mass	D_{P2} =	mm	m_{P2} =	kg		
● When the mass is unknown, please enter the width and material.→			L_{P2} =	mm	Material:	

● For motorized linear slides selection, please use the special sheet.

Operating Conditions

● Leave blank and send if there is anything unclear. We will call you back.

● Traveling Distance per Motion			mm
● Positioning time	t_0 =		s
● Desired acceleration and deceleration time (if any)	t_1 =		s
● Stopping Time	t_2 =		s
● Desired traveling speed (if any)	V =		mm/s
● Desired stopping accuracy (if any)	±		mm
● Power Supply Voltage	Phase	V, Hz	



Customer Information

Date: Year Month Day

Company Name:	E-mail:
Department and Title:	Answer by: E-mail • FAX
Name:	Application:
Address:	Number of Units to be Used: Unit(s)
	Expected Purchasing Date:
TEL: Extension:	Supply Source (Sales Branch):
FAX:	