Product Recommendation Information Sheet

Cam

■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 [   ]

Desired Controller

○ Oriental Motor controller   ○ Use positioning function of another company's PLC, programmable controller, etc.   ○ Unknown

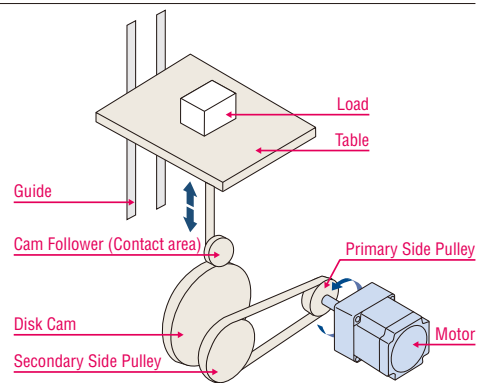If you wish to use a product from another company, enter the manufacturer name and the product name.

Manufacturer name:	Product name:

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

● Total Mass of Load (Including table)················ m_1 =   kg

● Guide Friction Coefficient ···················· μ =

Cam Dimensions

● Diameter ·································· ϕD_C =   mm

● Eccentricity Volume ·························· e =   mm

● Mass ····································· m_C =   kg

● Thickness (Only if mass is unknown)··············· t =   mm

● Material (Only if mass is unknown) ··············· Materials:

● Rolling Friction Coefficient of Cam Follower (Contact area) ··· μ =

● Pushing Force (Not including the mass of the load)··········· F =   N

● Position of Mechanism ······················· ○ Horizontal   ○ Vertical

Load
Table
Guide
Cam Follower (Contact area)
Disk Cam
Secondary Side Pulley
Primary Side Pulley
Motor
Pushing Force F
Disk Cam
Center of Rotation
D_C
e
[Horizontal operation=0°]
[Vertical operation=90°]
Travel Amount
Cam Rotation Angle

Cam Wire Figure (If there is more than 1 slope, enter the part with the steepest slope.)

● Travel Amount ·····························   mm

● Cam Rotation Angle ··························   °
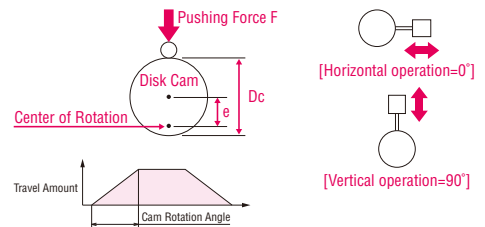
Please enter if you use connecting belt pulley or gear. Not required for direct connection.

● 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.

○ Continuous Operation

● Speed ································· N =   to   r/min

● Operating Time ························· t =   s

(The above speed should be entered as the rotation speed of the disk cam)

○ Operating in Positioning Operation

● Cam Rotation Angle ·····················   °

● Positioning Time ······················· t_0 =   s

● Acceleration/Deceleration Time ········· t_1 =   s

● Stop Time ····························· t_2 =   s

● Desired Stopping Accuracy (If any)··· ±   °

● Power Supply Voltage ·····················   V,   Hz

● Necessity of Holding Force After Power is Turned off ········· ○ Yes   ○ No

Rotation Speed N
Cam Rotation Angle [°]
Acceleration Time t1
Deceleration Time t1
Positioning Time t0 [S]
Stopping Time t2 [S]
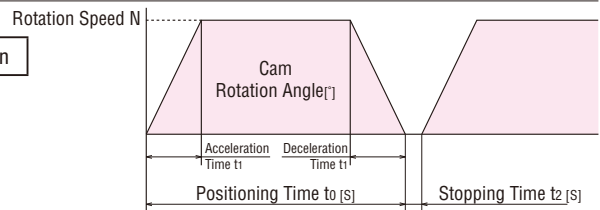
■Others

● Application, Equipment Name··················· [   ]

● Estimated Number of Units to be Used ····· [unit(s)]

● Estimated Purchase Date ······················ [year   month]

● Supply Source (Sales office)··················· [   ]

● Other (Requests, Contact information, Items not written above, etc.)