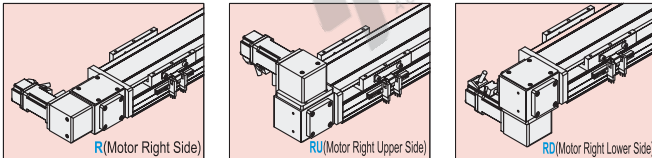
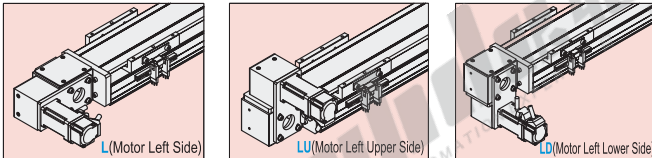


# Single Axis Robots

## YTB10 Series, Base Width 102 mm Timing Belt Series, General Environment

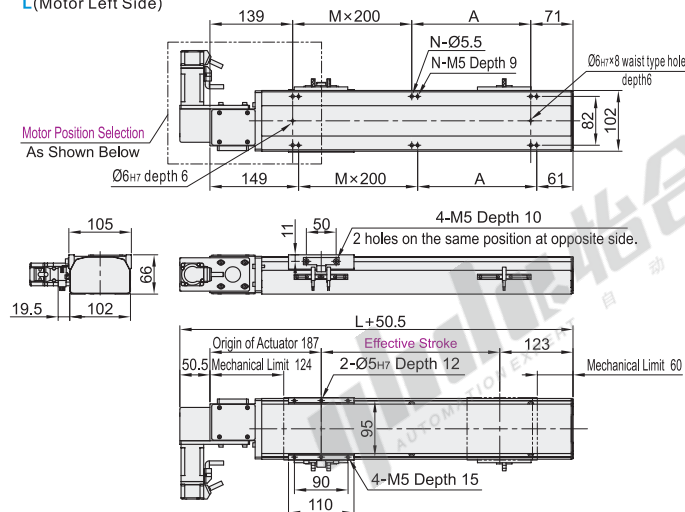
| Code  | Base           |                   | Guide       |                   | Slider         |                   | Cover          |                   | Operating Ambient               |
|-------|----------------|-------------------|-------------|-------------------|----------------|-------------------|----------------|-------------------|---------------------------------|
|       | Material       | Surface Treatment | Material    | Surface Treatment | Material       | Surface Treatment | Material       | Surface Treatment |                                 |
| YTB10 | Aluminum Alloy | Anodize           | Alloy Steel | —                 | Aluminum Alloy | Anodize           | Aluminum Alloy | Anodize           | 0~40°C 35~85%RH No Condensation |

⚠ This product does not include a motor, the motor must be purchased separately.

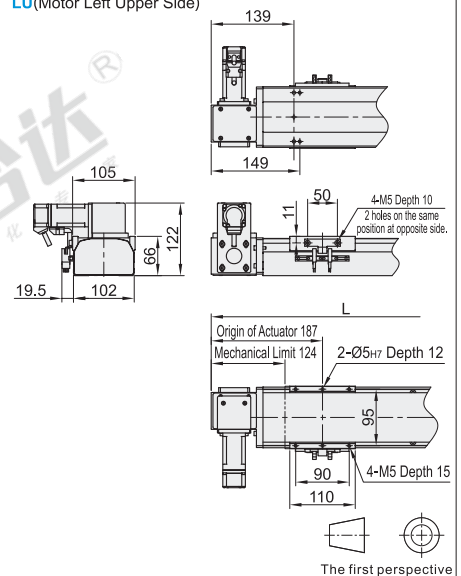


### Motor Position :

L (Motor Left Side)



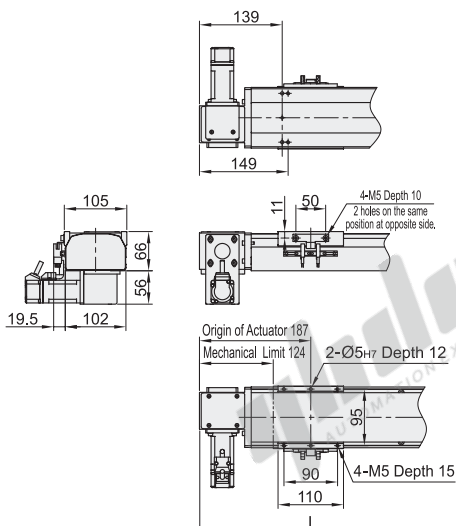
LU (Motor Left Upper Side)



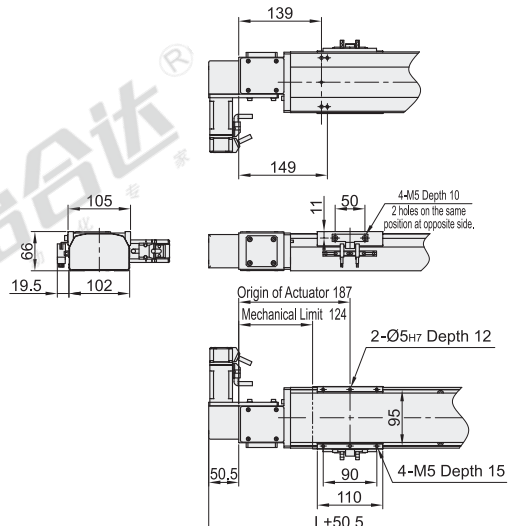
The first perspective

### Motor Position Selection

LD (Motor Left Lower Side)



R (Motor Right Side)

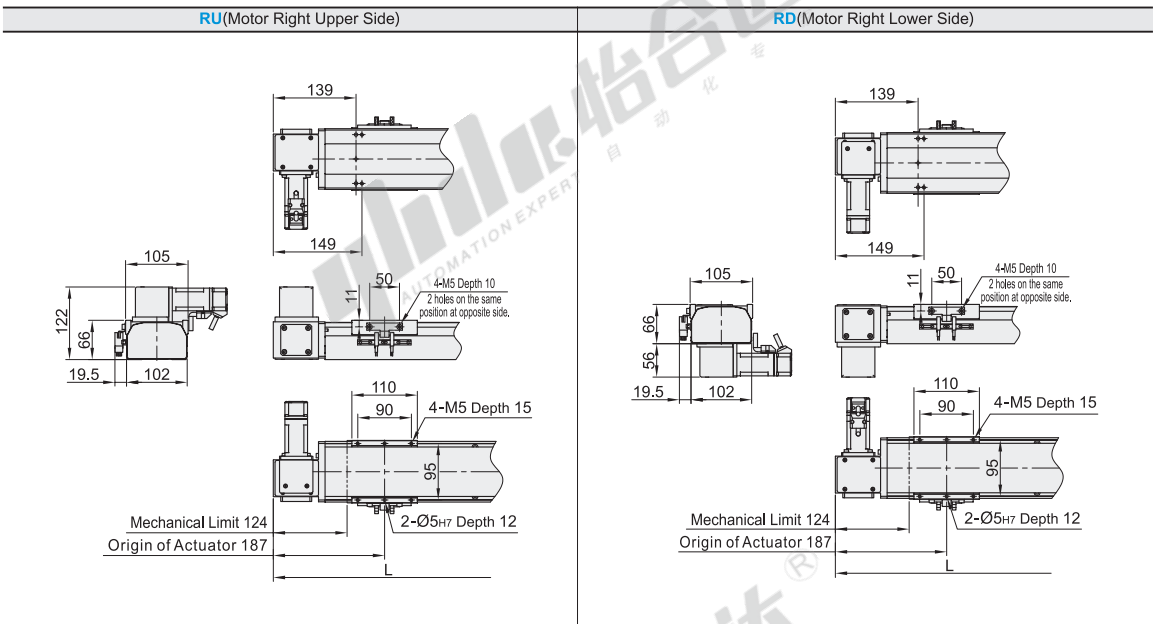


# YTB10 Series, Base Width 102 mm

Timing Belt Series, General Environment

## Single Axis Robots

### Motor Position Selection



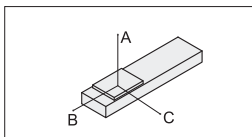
| Part Number |                 | Effective Stroke<br>(50 mm Inc.)                    | Motor Position<br>Selection                                                                                                                                           | Motor Brand                                                                                  | Motor Output                                                                                                                                                                                                                                                                           | Home Sensor                                                                         | Limit Sensor                                                    |
|-------------|-----------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Code        | Ball Screw Lead |                                                     |                                                                                                                                                                       |                                                                                              |                                                                                                                                                                                                                                                                                        |                                                                                     |                                                                 |
| YTB10       | 32              | 100 ~ 2550<br>Non-standard stroke can be customized | L (Motor Left Side)<br>LU (Motor Left Upper Side)<br>LD (Motor Left Lower Side)<br>R (Motor Right Side)<br>RU (Motor Right Upper Side)<br>RD (Motor Right Lower Side) | P (Panasonic)<br>Y (Yaskawa)<br>M (Mitsubishi)<br>T (Delta)<br>H (Inovance)<br>L (Leadshine) | 10 (100W Servo)<br>57 (57 Stepping)<br>❏ 57 Stepping only applicable to Leadshine brand.<br>❏ If 57 series stepper motors are used, it is recommended to choose the model with the maximum static torque greater than 0.64 N.m.<br>❏ Please consult our company for other output spec. | Out Side<br>C (Motor Side)<br>D (Opposite Motor Side)<br>No Sensor<br>E (No Sensor) | Out Side<br>3 (1 Pc)<br>4 (2 Pcs)<br>No Sensor<br>5 (No Sensor) |

### Specification

| Recommended Motor Output |                                | 57 Stepping                               | 100W Servo     |
|--------------------------|--------------------------------|-------------------------------------------|----------------|
| Spec                     | Positioning Repeatability (mm) | ±0.04                                     | ±0.04          |
|                          | Ball Screw Lead (mm)           | 32                                        | 32             |
|                          | Max Speed (mm/s)               | 333                                       | 1600           |
|                          | Maximum Payload (kg)           | Horizontal                                | 10             |
|                          |                                | Vertical                                  | 10             |
|                          | Rated Thrust (N)               | 62                                        | 62             |
| Parts                    | Effective Stroke (mm)          | 100~2550 (50mm Pitch)                     |                |
|                          | Belt Width (mm)                | 15                                        |                |
|                          | Linear Guide Rail              | 20x17.5 Single Branch, Single Slide Block |                |
|                          | Home Sensor                    | Out Side                                  | EE-SX672 (NPN) |
|                          |                                | In Side                                   | —              |

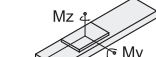
❏ Please contact us for OMRON Brand or PNP Sensor.

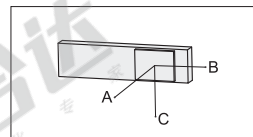
### Load allowable moment table (unit: mm)



| Horizontal installation | A   | B   | C   |
|-------------------------|-----|-----|-----|
| 5kg                     | 495 | 152 | 128 |
| 8kg                     | 301 | 91  | 77  |
| 10kg                    | 236 | 71  | 60  |

### Allowable Moment Table

|                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mxd                                                                                                                                                                                                                                                   | 120N.m | <p>Explanation</p> <p>1. The actual load shall meet the following conditions:</p> <p>(a) Meet the maximum load condition in the "Specification" table.</p> <p>(b) Satisfy the torque condition in the "allowable Moment Table" if beyond the conditions of use will greatly reduce the life of the slide table.</p> <p>2. The data in the table is based on the rated life of 10000km.</p> <p>3. The repeated positioning accuracy in the table is a unidirectional value.</p> <p>4. Rated acceleration of the slide table is 0.3G, and the short-stroke slide table may not work reach top speed.</p> |
| Myd                                                                                                                                                                                                                                                   | 110N.m |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mzd                                                                                                                                                                                                                                                   | 110N.m |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>The torque value in the table is the dynamic allowable torque based on the 10000km running life of the sliding table.</p> <p>Torque conditions:</p> $Mx/Mxd + My/Myd + Mz/Mzd \leq 1$ <p>(Mx, My, Mz are the actual moments in each direction)</p> |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



| Wall-mounted installation | A   | B   | C   |
|---------------------------|-----|-----|-----|
| 4kg                       | 162 | 192 | 625 |
| 7kg                       | 89  | 106 | 347 |
| 10kg                      | 60  | 71  | 236 |

# YTB10 Series, Base Width 102 mm

Timing Belt Series, General Environment

## Single Axis Robots

Dimension Table

| Dimension   | Stroke |      |      |      |      |     |      |      |       |       |     |       |       |       |       |      |       |       |       |      |      |       |       |       |       |  |
|-------------|--------|------|------|------|------|-----|------|------|-------|-------|-----|-------|-------|-------|-------|------|-------|-------|-------|------|------|-------|-------|-------|-------|--|
|             | 100    | 150  | 200  | 250  | 300  | 350 | 400  | 450  | 500   | 550   | 600 | 650   | 700   | 750   | 800   | 850  | 900   | 950   | 1000  | 1050 | 1100 | 1150  | 1200  | 1250  | 1300  |  |
| L           | 410    | 460  | 510  | 560  | 610  | 660 | 710  | 760  | 810   | 860   | 910 | 960   | 1010  | 1060  | 1110  | 1160 | 1210  | 1260  | 1310  | 1360 | 1410 | 1460  | 1510  | 1560  | 1610  |  |
| A           | 200    | 50   | 100  | 150  | 200  | 50  | 100  | 150  | 200   | 50    | 100 | 150   | 200   | 50    | 100   | 150  | 200   | 50    | 100   | 150  | 200  | 50    | 100   | 150   | 200   |  |
| M           | 0      | 1    | 1    | 1    | 1    | 2   | 2    | 2    | 2     | 3     | 3   | 3     | 3     | 4     | 4     | 4    | 4     | 5     | 5     | 5    | 5    | 6     | 6     | 6     | 6     |  |
| N           | 4      | 6    | 6    | 6    | 6    | 8   | 8    | 8    | 8     | 10    | 10  | 10    | 10    | 12    | 12    | 12   | 12    | 14    | 14    | 14   | 14   | 16    | 16    | 16    | 16    |  |
| Weight(kg)※ | 6.8    | 7.22 | 7.64 | 8.06 | 8.48 | 8.9 | 9.32 | 9.74 | 10.16 | 10.58 | 11  | 11.42 | 11.84 | 12.26 | 12.68 | 13.1 | 13.52 | 13.94 | 14.78 | 14.8 | 15.2 | 15.62 | 16.04 | 16.46 | 16.88 |  |

| Dimension   | Stroke |       |       |       |       |      |       |       |       |       |      |       |       |       |       |      |       |       |       |       |      |       |       |       |       |  |
|-------------|--------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|--|
|             | 1350   | 1400  | 1450  | 1500  | 1550  | 1600 | 1650  | 1700  | 1750  | 1800  | 1850 | 1900  | 1950  | 2000  | 2050  | 2100 | 2150  | 2200  | 2250  | 2300  | 2350 | 2400  | 2450  | 2500  | 2550  |  |
| L           | 1660   | 1710  | 1760  | 1810  | 1860  | 1910 | 1960  | 2010  | 2060  | 2110  | 2160 | 2210  | 2260  | 2310  | 2360  | 2410 | 2460  | 2510  | 2560  | 2610  | 2660 | 2710  | 2760  | 2810  | 2860  |  |
| A           | 50     | 100   | 150   | 200   | 50    | 100  | 150   | 200   | 50    | 100   | 150  | 200   | 50    | 100   | 150   | 200  | 50    | 100   | 150   | 200   | 50   | 100   | 150   | 200   | 50    |  |
| M           | 7      | 7     | 7     | 7     | 8     | 8    | 8     | 8     | 9     | 9     | 9    | 9     | 10    | 10    | 10    | 10   | 11    | 11    | 11    | 11    | 12   | 12    | 12    | 12    | 13    |  |
| N           | 18     | 18    | 18    | 18    | 20    | 20   | 20    | 20    | 22    | 22    | 22   | 22    | 24    | 24    | 24    | 24   | 26    | 26    | 26    | 26    | 28   | 28    | 28    | 28    | 30    |  |
| Weight(kg)※ | 17.3   | 17.72 | 18.14 | 18.56 | 18.98 | 19.4 | 19.82 | 20.24 | 20.66 | 21.08 | 21.5 | 21.92 | 22.34 | 22.76 | 23.18 | 23.6 | 24.02 | 24.44 | 24.86 | 25.28 | 25.7 | 26.12 | 26.54 | 26.96 | 27.38 |  |

※ Not include motor weight.



| Part Number          | Effective Stroke | Motor Position                                   | Motor Brand                                    | Motor Output                        | Home Sensor                                           | Limit Sensor                      |
|----------------------|------------------|--------------------------------------------------|------------------------------------------------|-------------------------------------|-------------------------------------------------------|-----------------------------------|
| Code Ball Screw Lead | (50 mm Inc.)     | Selection                                        |                                                |                                     |                                                       |                                   |
| YTB10 32             | 100~2560         | L (Motor Left Side)<br>U (Motor Left Upper Side) | P (Panasonic)<br>Y (Yaskawa)<br>M (Mitsubishi) | 10 (100W Servo)<br>57 (57 Stepping) | Out Side<br>C (Motor Side)<br>D (Opposite Motor Side) | Out Side<br>3 (1 Pc)<br>4 (2 Pcs) |

YTB10-32-550-LU-M-10-C-4



|                |                           |
|----------------|---------------------------|
| Discount price |                           |
| Per            | 1~4 5~                    |
| Price          | 100% Additional quotation |



|          |    |
|----------|----|
| Delivery |    |
|          | 17 |