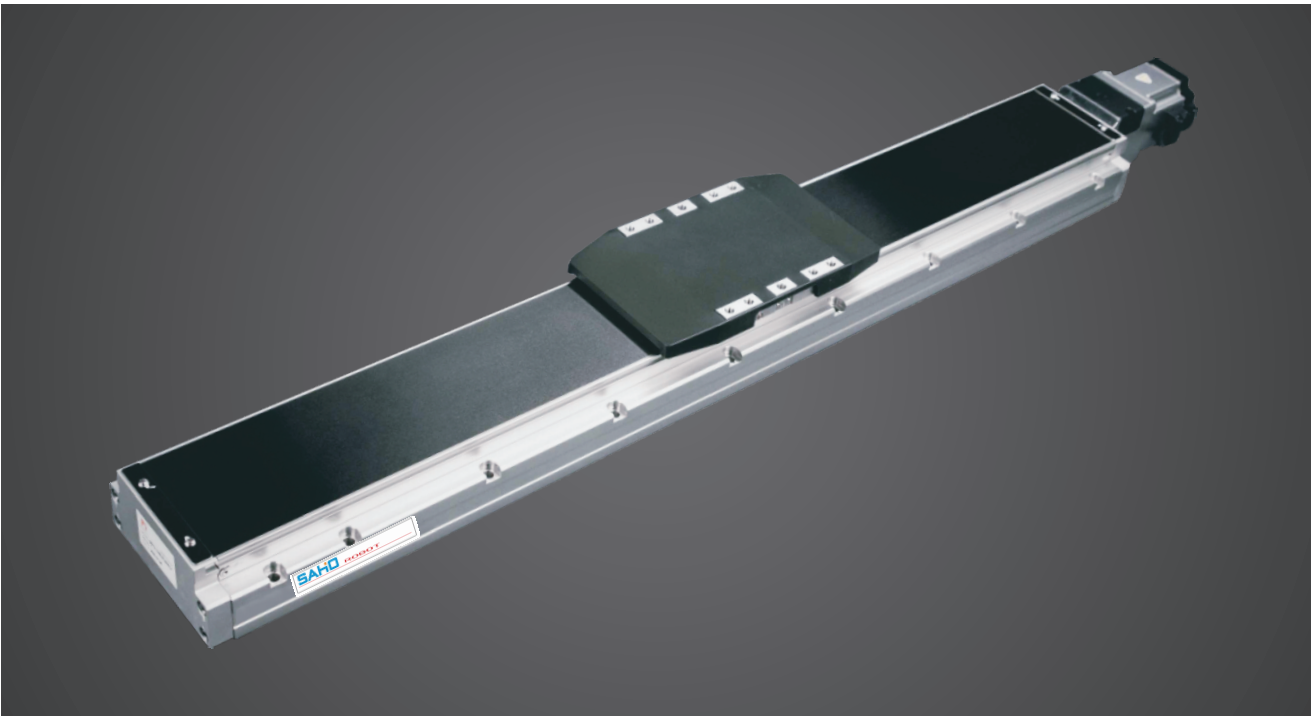


# SDH120

Single-Axis



Max. Stroke 1200mm

Max. Speed 1600mm/s

Motor Capacity 400W

Ball Screw  $\phi$ 16MM

## Model Number Designation System

SDH120- P5 - S100 - BC - M40 B - C4 - 0001

Model

Stroke

50-1200mm

50mm pitch

Special Type

Motor Position

Motor Brand & Power

Home Sensor

Endpoint Limit Sensor

Ball Screw Lead

|    |      |
|----|------|
| 5  | 5mm  |
| 10 | 10mm |
| 20 | 20mm |
| 32 | 32mm |

|    |                          |
|----|--------------------------|
| BC | Motor Externally Mounted |
| BM | Motor on lower side      |
| BL | Motor on left side       |
| BR | Motor on right side      |

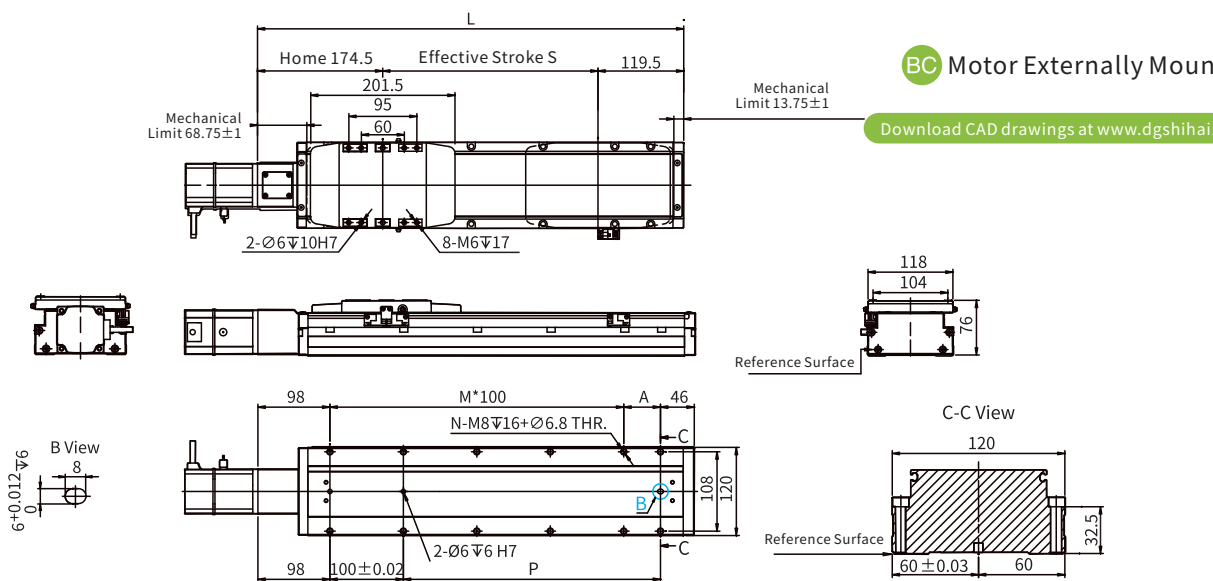
|   |            |    |      |   |
|---|------------|----|------|---|
| M | Mitsubishi | 05 | -    | B |
| P | Panasonic  | 10 | -    |   |
| Y | Yaskawa    | 20 | -    |   |
| T | Delta      | 40 | 400W |   |

| External-mounted |                    |
|------------------|--------------------|
| C                | Motor side         |
| D                | Counter-motor side |
| E                | No sensor          |

| External-mounted |           |
|------------------|-----------|
| 3                | 1 PC      |
| 4                | 2 PCS     |
| 5                | No sensor |

## BC Motor Externally Mounted

Download CAD drawings at [www.dgshihai.com](http://www.dgshihai.com)

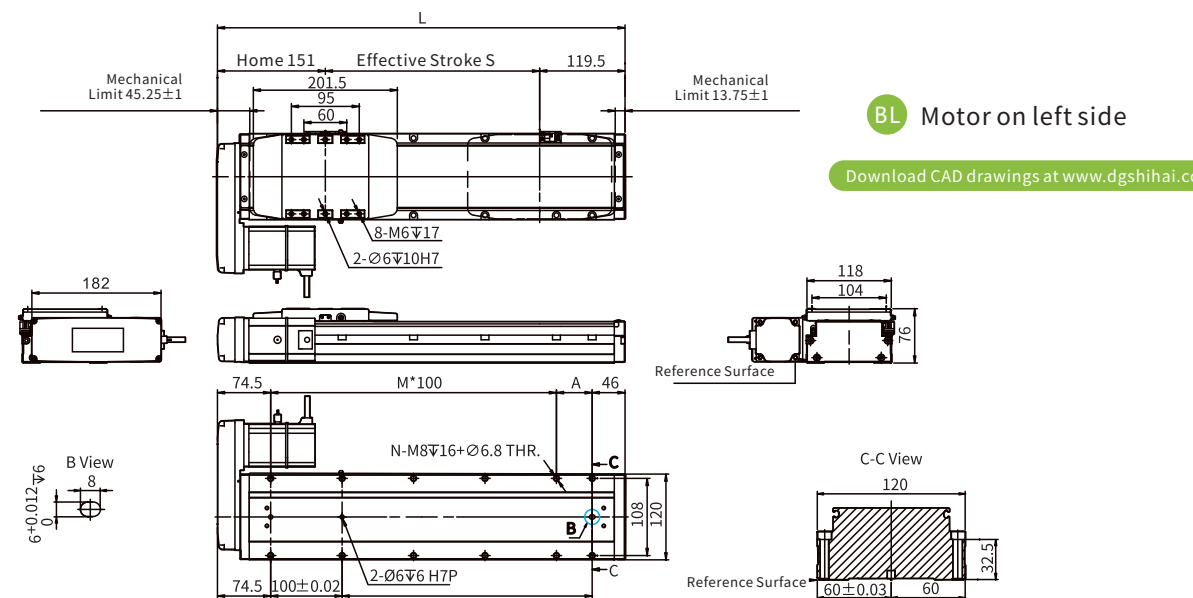


Unit: MM

| Effective Stroke | 50   | 100 | 150  | 200 | 250  | 300 | 350  | 400 | 450  | 500 | 550  | 600 | 650  | 700 | 750  | 800  | 850   | 900  | 950   | 1000 | 1050  | 1100 | 1150  | 1200 | 1250  |
|------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|------|-------|------|-------|------|-------|------|-------|------|-------|
| L                | 344  | 394 | 444  | 494 | 544  | 594 | 644  | 694 | 744  | 794 | 844  | 894 | 944  | 994 | 1044 | 1094 | 1144  | 1194 | 1244  | 1294 | 1344  | 1394 | 1444  | 1494 | 1544  |
| A                | 100  | 50  | 100  | 50  | 100  | 50  | 100  | 50  | 100  | 50  | 100  | 50  | 100  | 50  | 100  | 50   | 100   | 50   | 100   | 50   | 100   | 50   | 100   | 50   | 100   |
| M                | 1    | 2   | 2    | 3   | 3    | 4   | 4    | 5   | 5    | 6   | 6    | 7   | 7    | 8   | 8    | 9    | 9     | 10   | 10    | 11   | 11    | 12   | 12    | 13   | 13    |
| N                | 6    | 8   | 8    | 10  | 10   | 12  | 12   | 14  | 14   | 16  | 16   | 18  | 18   | 20  | 20   | 22   | 22    | 24   | 24    | 26   | 26    | 28   | 28    | 30   | 30    |
| P                | 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  |
| KG               | 5.05 | 5.4 | 5.75 | 6.1 | 6.45 | 6.8 | 7.15 | 7.5 | 7.85 | 8.2 | 8.55 | 8.9 | 9.25 | 9.6 | 9.95 | 10.3 | 10.65 | 11   | 11.35 | 11.7 | 12.05 | 12.4 | 12.75 | 13.1 | 13.45 |

## BL Motor on left side

Download CAD drawings at [www.dgshihai.com](http://www.dgshihai.com)

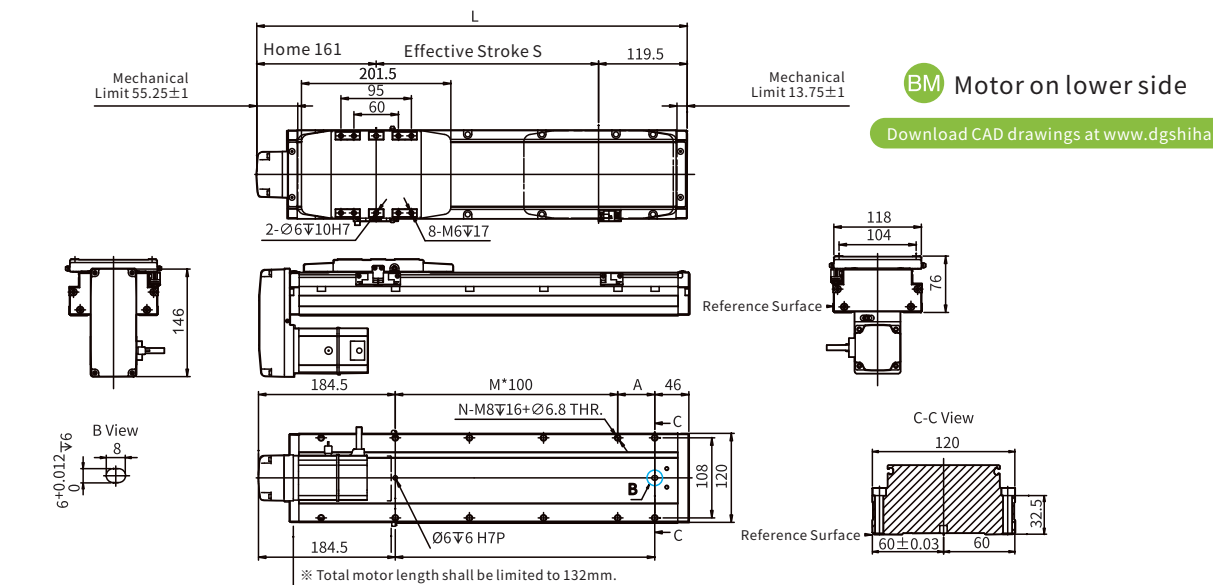


Unit: MM

| Effective Stroke | 50    | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 550   | 600   | 650   | 700   | 750    | 800    | 850    | 900    | 950    | 1000   | 1050   | 1100   | 1150   | 1200   | 1250   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L                | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A                | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100    | 50     | 100    | 50     | 100    | 50     | 100    | 50     | 100    | 50     | 100    |
| M                | 1     | 2     | 2     | 3     | 3     | 4     | 4     | 5     | 5     | 6     | 6     | 7     | 7     | 8     | 8      | 9      | 9      | 10     | 10     | 11     | 11     | 12     | 12     | 13     | 13     |
| N                | 6     | 8     | 8     | 10    | 10    | 12    | 12    | 14    | 14    | 16    | 16    | 18    | 18    | 20    | 20     | 22     | 22     | 24     | 24     | 26     | 26     | 28     | 28     | 30     | 30     |
| P                | 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   |
| KG               | 5.25  | 5.6   | 5.95  | 6.3   | 6.65  | 7     | 7.35  | 7.7   | 8.05  | 8.4   | 8.75  | 9.1   | 9.45  | 9.8   | 10.15  | 10.85  | 11.2   | 11.55  | 11.9   | 12.25  | 12.6   | 12.95  | 13.26  | 13.61  |        |

## BM Motor on lower side

Download CAD drawings at [www.dgshihai.com](http://www.dgshihai.com)



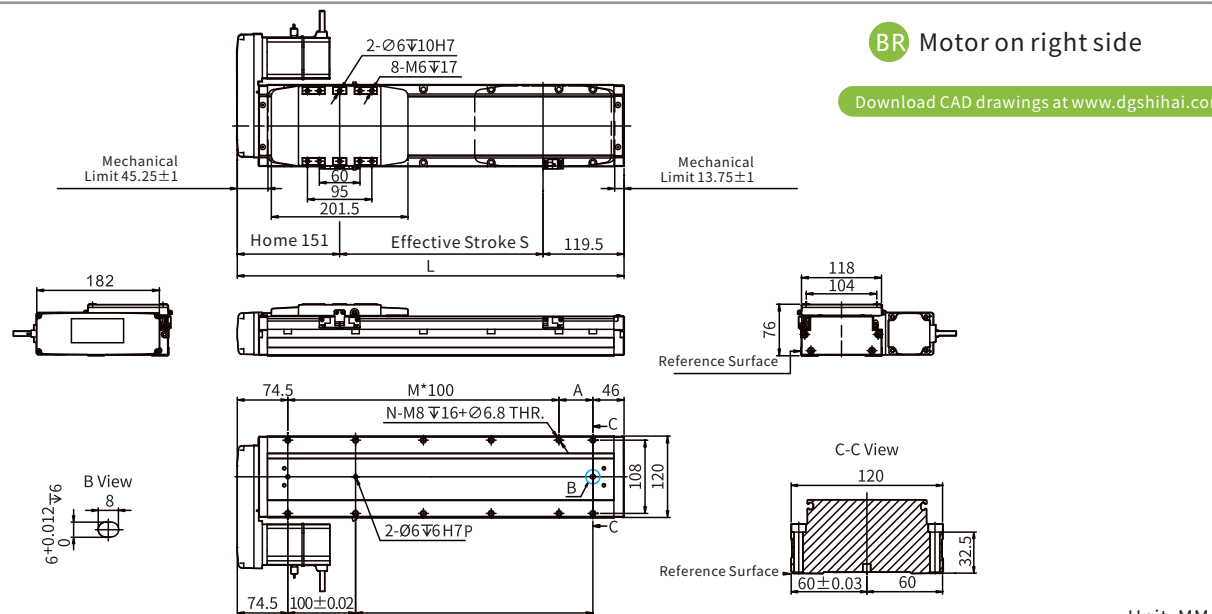
Unit: MM

| Effective Stroke | 50    | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 550   | 600   | 650   | 700   | 750    | 800    | 850    | 900    | 950    | 1000   | 1050   | 1100   | 1150   | 1200   | 1250   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L                | 330.5 | 380.5 | 430.5 | 480.5 | 530.5 | 580.5 | 630.5 | 680.5 | 730.5 | 780.5 | 830.5 | 880.5 | 930.5 | 980.5 | 1030.5 | 1080.5 | 1130.5 | 1180.5 | 1230.5 | 1280.5 | 1330.5 | 1380.5 | 1430.5 | 1480.5 | 1530.5 |
| A                | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100    | 50     | 100    | 50     | 100    | 50     | 100    | 50     | 100    | 50     | 100    |
| M                | 0     | 1     | 1     | 2     | 2     | 3     | 3     | 4     | 4     | 5     | 5     | 6     | 6     | 7     | 7      | 8      | 8      | 9      | 9      | 10     | 10     | 11     | 11     | 12     | 12     |
| N                | 4     | 6     | 6     | 8     | 8     | 10    | 10    | 12    | 12    | 14    | 14    | 16    | 16    | 18    | 18     | 20     | 20     | 22     | 22     | 24     | 24     | 26     | 26     | 28     | 28     |
| P                | 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   |
| KG               | 5.21  | 5.56  | 5.91  | 6.26  | 6.61  | 6.96  | 7.31  | 7.66  | 8.01  | 8.36  | 8.71  | 9.06  | 9.41  | 9.76  | 10.11  | 10.46  | 10.81  | 11.16  | 11.51  | 11.86  | 12.21  | 12.56  | 12.91  | 13.26  | 13.61  |

※ When the motor is on the lower side, if the motor has a brake, or the motor length exceeds specified limits, standard mounting pin holes cannot be used. In these cases, please contact our sales team for customized solutions.

## BR Motor on right side

Download CAD drawings at [www.dgshihai.com](http://www.dgshihai.com)



Unit: MM

| Effective Stroke | 50    | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 550   | 600   | 650   | 700   | 750    | 800    | 850    | 900    | 950    | 1000   | 1050   | 1100   | 1150   | 1200   | 1250   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L                | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A                | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100   | 50    | 100    | 50     | 100    | 50     | 100    | 50     | 100    | 50     | 100    | 50     | 100    |
| M                | 1     | 2     | 2     | 3     | 3     | 4     | 4     | 5     | 5     | 6     | 6     | 7     | 7     | 8     | 8      | 9      | 9      | 10     | 10     | 11     | 11     | 12     | 12     | 13     | 13     |
| N                | 6     | 8     | 8     | 10    | 10    | 12    | 12    | 14    | 14    | 16    | 16    | 18    | 18    | 20    | 20     | 22     | 22     | 24     | 24     | 26     | 26     | 28     | 28     | 30     | 30     |
| P                | 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   |
| KG               | 5.25  | 5.6   | 5.95  | 6.3   | 6.65  | 7     | 7.35  | 7.7   | 8.05  | 8.4   | 8.75  | 9.1   | 9.45  | 9.8   | 10.15  | 10.85  | 11.2   | 11.55  | 11.9   | 12.25  | 12.6   | 12.95  | 13.26  | 13.61  |        |