

WM Series Standard Specifications and Mechanical Drawing

FS-11WO-0

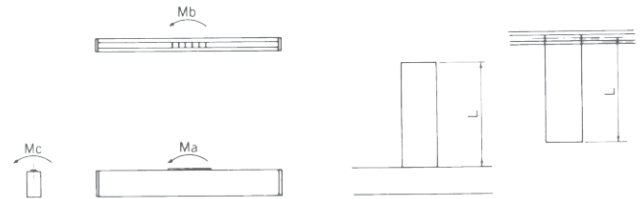
| | | | | | | | | |
|-------------|-----|-----|-----|-----|------|------|------|------|
| Stroke (mm) | 300 | 400 | 600 | 800 | 1000 | 1500 | 2000 | 2500 |
| Weight (kg) | 4.9 | 5.6 | 6.7 | 8.3 | 9.6 | 12.9 | 16.3 | 19.6 |

FS-12WO-0

| | | | | | | | | |
|-------------|-----|-----|-----|-----|------|------|------|------|
| Stroke (mm) | 300 | 400 | 600 | 800 | 1000 | 1500 | 2000 | 2500 |
| Weight (kg) | 5.6 | 6.2 | 7.6 | 8.9 | 10.2 | 13.6 | 16.9 | 20.3 |

| Model | | FS-11WO-0 | FS-12WO-0 |
|-----------------------------|------------|--|---|
| Rated speed | mm/sec | 1250 | |
| Linear guide | | Linear motion guide: SR-20W Linear motion block (1 for 11WO, 2 for 12WO) | |
| Base | | Extruded aluminum (A6063S-T5) White alumite treatment | |
| Maximum speed | mm/sec | 1500 (1250 when ISAC motor is used) | |
| Static load (*1, 2) | N[kgf] | 1176 [120] | 1960[200] |
| Load moment (*3) | N•m[kgf•m] | Ma: 4.4[0.45] Mb: 3.9[0.4] Mc: 5.8[0.6] | Slides together: Ma: 27.4[2.8] Mb: 25.4[2.6] Mc: 11.7[1.2] Slides 70mm apart: Ma: 107[11] Mb: 98[10] Mc: 11.7[1.2] |
| Overhang load length L (*3) | mm | 240 | 600 (slides together) 950 (slides 70mm apart) |

- *1 Load uniformly distributed on slider. Base affixed to a flat, strong frame.
- *2 Value when load moment is not added. Static load is the maximum value when load is added and differs from the payload.
- *3 See figures at right. Moment caused by static load not to exceed allowable load moment. If there is moment in the Mc direction, we recommend using a guide rail (FS-11NO or 12NO) with the actuator.



*70mm for 11WO

The drawing includes a top view of the guide with dimensions: 70mm total width, 15mm, 20mm, 20mm, 15mm segments, and M8 depth 14. A side view shows a 100mm wide base with 52mm height and 10mm diameter holes. A cross-section of the T-slot shows a 28mm width, 10.2 ± 0.2mm depth, and 20.2 ± 0.2mm top flange. A detail of the T-slot cross section shows a 28mm width, 10.2 ± 0.2mm depth, and 6.7mm top flange.

| FS-11WO-0 | | | | | | | | | FS-12WO-0 | | | | | | | | |
|-----------|-----|-----|-----|------|------|------|------|------|-----------|-----|-----|-----|------|------|------|------|------|
| Stroke | 300 | 400 | 600 | 800 | 1000 | 1500 | 2000 | 2500 | Stroke | 300 | 400 | 600 | 800 | 1000 | 1500 | 2000 | 2500 |
| A | 551 | 651 | 851 | 1051 | 1251 | 1751 | 2251 | 2751 | A | 651 | 751 | 951 | 1151 | 1351 | 1851 | 2351 | 2851 |
| B | 535 | 635 | 835 | 1035 | 1235 | 1735 | 2235 | 2735 | B | 635 | 735 | 935 | 1135 | 1335 | 1835 | 2335 | 2835 |
| C | 300 | 400 | 600 | 800 | 1000 | 1500 | 2000 | 2500 | C | 330 | 430 | 630 | 830 | 1030 | 1530 | 2030 | 2530 |
| D | 370 | 470 | 670 | 870 | 1070 | 1570 | 2070 | 2570 | D | 470 | 570 | 770 | 970 | 1170 | 1670 | 2170 | 2670 |

Stroke Increment is 100mm