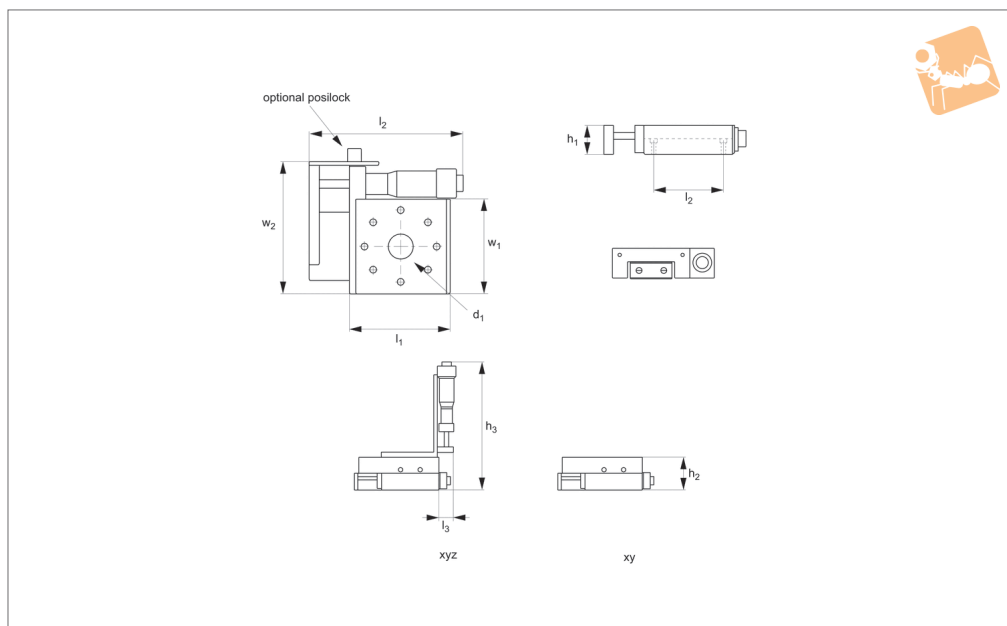




# Micrometer Positioning XY, XYZ

side drive, small sizes

## Manual Positioning Stages



**L3110**

MANUAL POSITIONING STAGES

### Material

Aluminium carriage and base, black anodised steel fixing, hardened steel shafts and balls and roller elements

### Technical Notes

Ball roller versions recommended for light loads. Cross roller versions for heavier loads and moment loads.  
Straight line accuracy 12μ/25mm travel.

Repeatability 3μ.

Spring loaded micrometer allows precise repeatable adjustments with low friction and zero backlash.

Micrometer increments 0,01mm.

**For further fixing and mounting hole dimensions please see part number L3100.FH.**

### Tips

Other options:

- LM (locking micrometer).
- PL (posi-lock carriage lock).

### Important Notes

Stroke is centred on the mid-point of the slides (ie 50% of total stroke each way).

**3D CAD available.**

| Order No.       | Type       | Travel | $h_1$ | $h_2$ | $h_3$ | $l_1$ | $l_2$ | $l_3$ | $w_1$ | Weight kg |
|-----------------|------------|--------|-------|-------|-------|-------|-------|-------|-------|-----------|
| L3110.0101-XYB  | XY Ball    | 13     | 9.7   | 19.0  | -     | 31.8  | 54.9  | -     | 31.8  | 1.8       |
| L3110.0201-XYB  | XY Ball    | 13     | 9.7   | 19.0  | -     | 44.5  | 61.5  | -     | 44.5  | 1.8       |
| L3110.0101-XYR  | XY Roller  | 13     | 9.7   | 19.0  | -     | 31.8  | 54.9  | -     | 31.8  | 10.4      |
| L3110.0201-XYR  | XY Roller  | 13     | 9.7   | 19.0  | -     | 44.5  | 61.5  | -     | 44.5  | 10.4      |
| L3110.0101-XYZB | XYZ Ball   | 13     | 9.7   | 19.0  | 77.1  | 31.8  | 54.9  | 9.7   | 31.8  | 1.8       |
| L3110.0201-XYZB | XYZ Ball   | 13     | 9.7   | 19.0  | 83.7  | 44.5  | 61.5  | 11.2  | 44.5  | 1.8       |
| L3110.0101-XYZR | XYZ Roller | 13     | 9.7   | 19.0  | 77.1  | 31.8  | 54.9  | 9.7   | 31.8  | 10.4      |
| L3110.0201-XYZR | XYZ Roller | 13     | 9.7   | 19.0  | 83.7  | 44.5  | 61.5  | 11.2  | 44.5  | 10.4      |

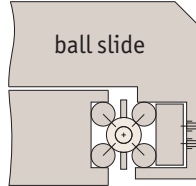
| Order No.       | $w_2$ | Load Z kg max. | Load X & Y kg max. | X moment load Nm max. | Y moment load Nm max. | Z moment load Nm max. |
|-----------------|-------|----------------|--------------------|-----------------------|-----------------------|-----------------------|
| L3110.0101-XYB  | 44.5  | 0.7            | 1.8                | 0.19                  | 0.18                  | 0.18                  |
| L3110.0201-XYB  | 57.4  | 0.7            | 1.8                | 0.28                  | 0.27                  | 0.27                  |
| L3110.0101-XYR  | 44.5  | 0.7            | 10.4               | 1.09                  | 1.04                  | 1.04                  |
| L3110.0201-XYR  | 57.4  | 0.7            | 10.4               | 1.64                  | 1.56                  | 1.56                  |
| L3110.0101-XYZB | 44.5  | 0.7            | 1.8                | 0.19                  | 0.18                  | 0.18                  |
| L3110.0201-XYZB | 57.4  | 0.7            | 1.8                | 0.28                  | 0.27                  | 0.27                  |
| L3110.0101-XYZR | 44.5  | 0.7            | 10.4               | 1.09                  | 1.04                  | 1.04                  |
| L3110.0201-XYZR | 57.4  | 0.7            | 10.4               | 1.64                  | 1.56                  | 1.56                  |



There are two different load ratings for these stages.

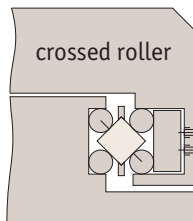
### Ball slides:

These have precision steel balls rolling in the tracks. They are the least expensive, loads up to 28Kg.



### Cross roller slides:

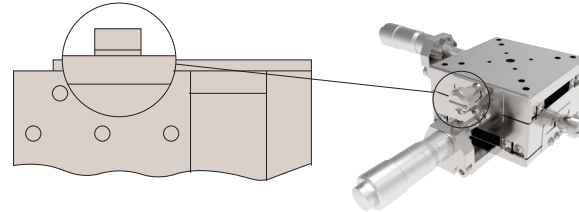
These have the same dimensions but have rollers allowing the slide to carry large loads and absorb greater moment loads up to 54Kg.



### Locking options

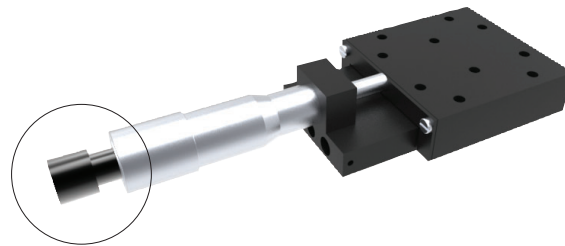
#### Posi-lock:

Allows locking of the carriage in place with a friction locking mechanism.



#### Locking micrometer:

Locking of the micrometer to fix the micrometer setting.



### Front drive micrometer positioning stages



X Stage



XY Stage

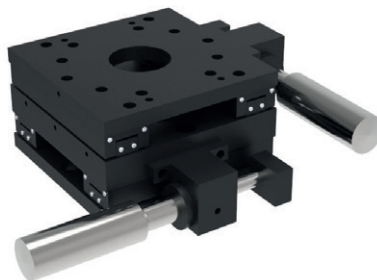


XYZ Stage

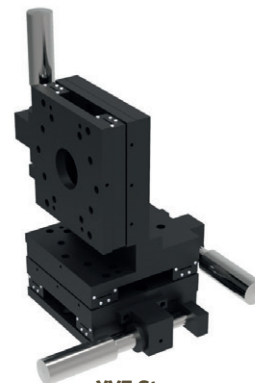
### Side drive micrometer positioning stages



X Stage



XY Stage



XYZ Stage

Also available in stainless steel.