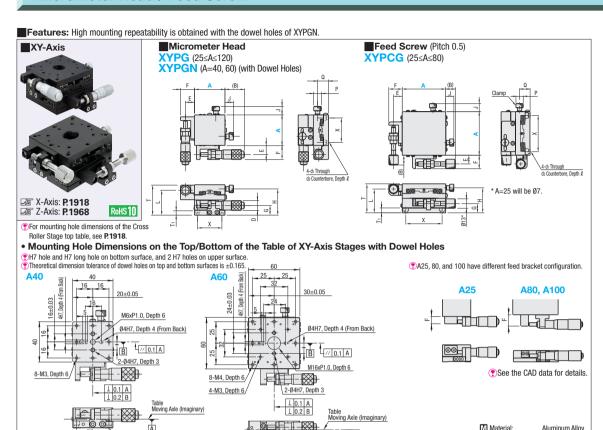
# [High Precision] XY-Axis Cross Roller / Cross Roller with Dowel Holes

### Micrometer Head / Feed Screw



Standard Stages Similar Products: XYCRS (P1942)

#### Micrometer Head (XYPG, XYPGN), Feed Screw (XYPCG)

Ø6 Counterhore Denth 3.5

| interest field (XTT d, XTT dN), Feed object (XTT od) |      |                     |                      |            |                      |     |      |      |     |            |      |                |      |    |    |      |           |     |                |     |  |  |
|--|------|---------------------|----------------------|------------|----------------------|-----|------|------|-----|------------|------|----------------|------|----|----|------|-----------|-----|----------------|-----|--|--|
| Part Nu  | mber |                     | Top View             |            |                      |     |      |      |     | Front View |      |                |      |    |    |      | Side View |     |                |     |  |  |
| Tirpo A  |      | Standard Micrometer |                      | Feed Screw |                      | _   | -    |      | n   | G          | н    | T <sub>1</sub> |      | т  | В  | ^    | v         | d1  | d <sub>2</sub> | 0   |  |  |
| Туре   | A    | (B)                 | Travel Distance (mm) | (B)        | Travel Distance (mm) | _   | Г    | "    | D   | G          | п    | - 11           | -    | '  | Р  | Q    | ^         | uı  | u2             | l   |  |  |
| XYPG   | 25   | 25                  | ±3.2                 | 11         | ±3.2                 | 4.5 | 6.5  | 6.8  | 9.3 | 8.5        | 23.5 | 4.5            | 23.5 | 30 | 6  | 10.5 | 20        | 2.5 | 4.2            | 2   |  |  |
| XYPCG  | 40   | 25.8                | ±6.5                 | 22.3       |                      | 12  | 18.5 | 11.3 | 13  | 12.8       | 34.5 | 6.5            | 32.8 | 40 | 10 | 14.5 | 32        | 3.5 | 6              | 3.5 |  |  |
|  | 60   | 19.8                | ±0.5                 | 16.3       | ±6.5                 | 12  | 18.5 | 11.3 | 13  | 12.8       | 34.5 | 6.5            | 32.8 | 40 | 10 | 14.5 | 50        | 4.5 | 8              | 4   |  |  |
| XYPGN  | 80   | 43.5                | ±12.5                | 10         |                      | 17  | 22*  | 11.3 | 18  | 10.8       | 34.5 | 5.7            | 30.8 | 40 | 10 | 14.5 | 70        | 4.5 | 8              | 4.5 |  |  |
| (Dowel Hole Type                                     | *100 | 28.5                | ±12.5                | -          | -                    | 17  | 22   | 11.3 | 18  | 10.8       | 34.5 | 5.7            | 30.8 | 40 | 10 | 14.5 | 90        | 4.5 | 8              | 4.5 |  |  |
| for 40 and 60 only)                                  | *120 | 67.5                | ±25                  | -          | -                    | 13  | 20   | 11.5 | 21  | 18         | 48.0 | 9.5            | 48   | 60 | 10 | 18   | 100       | 4.5 | 8              | 4.5 |  |  |

4-04.5

Ø8 Counterbore, Depth 4.5

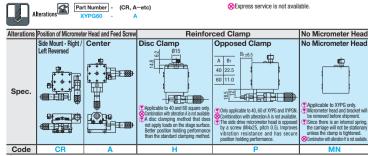
★ A100 and 120 are not available for Feed Screw Type (XYPCG). \* When A=80 for the Feed Screw Type (XYPCG), F=20.

#### Performance

| ۸  | $\Box$ | Stage Surface (mm) |       | Travel Accuracy |             |          | Moment Load Capacity (N·m) |          |        | Moment Rigidity ("/ |          | "/N·cm) |         | Weight Accessory (4 pcs.) |      | Unit Price |      |       |       |
|----|--------|--------------------|-------|-----------------|-------------|----------|----------------------------|----------|--------|---------------------|----------|---------|---------|---------------------------|------|------------|------|-------|-------|
| P  | ١      |                    |       | Straightness    | Parallelism | Pitching | Yawing                     | Pitching | Yawing | Rolling             | Pitching | Yawing  | Rolling | Parallelisiii             | (kg) | Type M-L   | XYPG | XYPCG | XYPGN |
| 2  | 5      | 25x25              | 9.8   | 3µт             | 20um        | 30"      | 30"                        | 0.4      | 0.8    | 0.4                 | 4.83     | 5.70    | 4.83    | 60µm 1                    | 0.08 | SCB2-6     |      |       | -     |
| 4  | 0      | 40x40              | 17.6  |                 |             |          | 15"                        | 2.0      | 2.2    | 2.0                 | 0.66     | 0.84    | 0.66    |                           | 0.3  | SCB3-6     |      |       |       |
| 6  | 0      | 60x60              | 44.1  |                 |             |          |                            | 5.2      | 4.3    | 5.2                 | 0.19     | 0.22    | 0.19    |                           | 0.52 | SCB4-6     |      |       |       |
| 8  | 0      | 80x80              | 93.1  |                 | Ζυμιιι      | 25"      |                            | 17.3     | 15.1   | 17.3                | 0.09     | 0.10    | 0.09    |                           | 1.00 | SCB4-6     |      |       | -     |
| 10 | 00     | 100x100            | 140.1 |                 |             |          |                            | 33.0     | 30.0   | 33.0                | 0.11     | 0.14    | 0.11    |                           | 1.40 | SCB4-6     |      | -     | -     |
| 12 | 20     | 120x120            | 180.3 |                 |             |          |                            | 57.2     | 44.7   | 57.2                | 0.04     | 0.04    | 0.04    |                           | 3.20 | SCB4-10    |      | -     | -     |

• XYPG and XYPGN: Micrometer Head Resolution: 10um/division





S Surface Treatment: Black Anodize

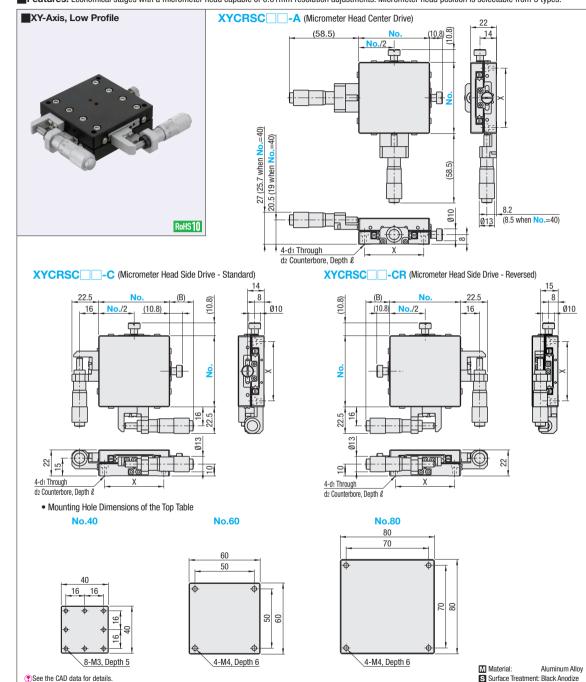
- Mounting dimensions of micrometer head, feed screw and clamp are different from those of standard products
- See the CAD data for details.
- Por micrometer head or feed screw mounted in positions other than shown below, see "Specification Selectable Type" (P.1989). Nnob Cover HDCVR13 (Sold Separately): Ø13 micrometer knob diameter can be increased by installing the cover. 2 P.2004
- Extension Cover HDEXT13 (Sold Separately): Feed knob of Ø13 micrometer head and feed screw can be extended. E P2004

## C-WALUE [Standard] XY-Axis Cross Roller Low Profile



Similar Product Pages P.1945

Features: Economical stages with a micrometer head capable of 0.01mm resolution adjustments. Micrometer head position is selectable from 3 types.



| 21. 1 bill o till god |       |                          |               |                 |          |    |      |                |     |                               |              |        |            |  |
|-----------------------|-------|--------------------------|---------------|-----------------|----------|----|------|----------------|-----|-------------------------------|--------------|--------|------------|--|
| Pa                    | art N | umber                    | Stage Surface | Travel Distance | Top View |    | Side | View           |     | Load Capacity Travel Accuracy |              | Weight | Unit Price |  |
| Type                  | No.   | Micrometer Head Position | (mm)          | (mm)            | (B)      | Х  | d1   | d <sub>2</sub> | l   | (N)                           | Straightness | (kg)   | Onit Price |  |
|                       | 40    | A (Center)               | 40x40         |                 | 36       | 32 | 3.4  | 6              | 3.5 | 9.8                           |              | 0.2    |            |  |
| <b>XYCRSC</b>         | 60    | C (Standard)             | 60x60         | ±6.5            | 20       | 50 | 4.5  | 8              | 4.5 | 29.4                          | 30µm         | 0.4    |            |  |
|                       | 80    | CR (Right/Left Reversed) | 80x80         | 1               | 11       | 70 | 4.5  | 8              | 4.5 | 39.2                          |              | 0.7    |            |  |

