

## Optional Accessories\*1

| Code No.  | Description                           |
|-----------|---------------------------------------|
| 264-622   | U-WAVE-TM transmitter                 |
| 02AZF310  | U-WAVE-TM connection unit             |
| 05CZA662  | SPC data cable with pushbutton (1 m)  |
| 05CZA663  | SPC data cable with pushbutton (2 m)  |
| 06AFM380B | USB input tool direct USB-ITN-B (2 m) |

\*1 Only for models with data output function.



## Specifications

| Metric   |       |            |            |             |                       |      |
|----------|-------|------------|------------|-------------|-----------------------|------|
| Code No. | Range | Resolution | Accuracy*2 | Parallelism | Constant-force device | Mass |

With SPC data output

|            |             |          |       |       |              |       |
|------------|-------------|----------|-------|-------|--------------|-------|
| 293-230-30 | 0 - 25 mm   | 0.001 mm | ±1 μm | 1 μm  | Ratchet stop | 270 g |
| 293-231-30 | 25 - 50 mm  |          |       | 330 g |              |       |
| 293-232-30 | 50 - 75 mm  |          | 470 g |       |              |       |
| 293-233-30 | 75 - 100 mm |          | ±2 μm | 2 μm  |              | 625 g |

Inch/Metric

| Code No. | Range | Resolution | Accuracy*2 | Parallelism | Constant-force device | Mass |
|----------|-------|------------|------------|-------------|-----------------------|------|
|----------|-------|------------|------------|-------------|-----------------------|------|

With SPC data output

|            |                             |                    |                  |                  |                 |                  |
|------------|-----------------------------|--------------------|------------------|------------------|-----------------|------------------|
| 293-330-30 | 0 - 1" (0-25.4 mm)          | .0005" (0.001 mm)  | ±.00005" (±1 μm) | .00004" (1 μm)   | Ratchet stop    | 270 g            |
| 293-331-30 | 1 - 2" (25.4 - 50.8 mm)     |                    |                  | 330 g            |                 |                  |
| 293-332-30 | 2 - 3" (50.8 - 76.2 mm)     |                    | 470 g            |                  |                 |                  |
| 293-333-30 | 3 - 4" (76.2 - 101.6 mm)    | .0001" (0.001 mm)  | ±.0001" (±2 μm)  | .00008" (2 μm)   | Ratchet stop    | 625 g            |
| 293-350-30 | 4 - 5" (101.6 - 127.0 mm)   |                    |                  | 600 g            |                 |                  |
| 293-351-30 | 5 - 6" (127.0 - 152.4 mm)   |                    | 740 g            |                  |                 |                  |
| 293-352-30 | 6 - 7" (152.4 - 177.8 mm)   |                    | 800 g            |                  |                 |                  |
| 293-353-30 | 7 - 8" (177.8 - 203.2 mm)   |                    | 970 g            |                  |                 |                  |
| 293-354-30 | 8 - 9" (203.2 - 228.6 mm)   |                    | 1100 g           |                  |                 |                  |
| 293-355-30 | 9 - 10" (228.6 - 254.0 mm)  | ±.00015" (±3 μm)   | .00012" (3 μm)   | .00016" (4 μm)   | 1270 g          |                  |
| 293-356-30 | 10 - 11" (254.0 - 279.4 mm) |                    |                  |                  | 1340 g          |                  |
| 293-357-30 | 11 - 12" (279.4 - 304.8 mm) |                    | ±.0002" (±4 μm)  | .0002" (5 μm)    |                 | 1540 g           |
| 293-334-30 | 0 - 1" (0-25.4 mm)          | .00005" (0.001 mm) | ±.00005" (±1 μm) | .00004" (1 μm)   | Ratchet thimble | 275 g            |
| 293-335-30 | 0 - 1" (0-25.4 mm)          |                    |                  | 275 g            |                 |                  |
| 293-336-30 | 1 - 2" (25.4 - 50.8 mm)     |                    |                  | ±.00005" (±1 μm) | .00004" (1 μm)  | Friction thimble |

Without SPC data output

|            |                          |                    |                  |                |                  |       |
|------------|--------------------------|--------------------|------------------|----------------|------------------|-------|
| 293-340-30 | 0 - 1" (0-25.4 mm)       | .00005" (0.001 mm) | ±.00005" (±1 μm) | .00004" (1 μm) | Ratchet stop     | 270 g |
| 293-341-30 | 1 - 2" (25.4 - 50.8 mm)  |                    |                  | 330 g          |                  |       |
| 293-342-30 | 2 - 3" (50.8 - 76.2 mm)  |                    | 470 g            |                |                  |       |
| 293-343-30 | 3 - 4" (76.2 - 101.6 mm) |                    | ±.0001" (±2 μm)  | .00008" (2 μm) |                  | 625 g |
| 293-344-30 | 0 - 1" (0-25.4 mm)       | .00005" (0.001 mm) | ±.00005" (±1 μm) | .00004" (1 μm) | Ratchet thimble  | 275 g |
| 293-345-30 | 1 - 2" (25.4 - 50.8 mm)  |                    |                  | 335 g          |                  |       |
| 293-346-30 | 2 - 3" (50.8 - 76.2 mm)  |                    | 475 g            |                |                  |       |
| 293-347-30 | 3 - 4" (76.2 - 101.6 mm) |                    | 639 g            |                |                  |       |
| 293-348-30 | 0 - 1" (0-25.4 mm)       |                    | ±.0001" (±2 μm)  | .00008" (2 μm) |                  | 639 g |
| 293-348-30 | 0 - 1" (0-25.4 mm)       |                    | ±.00005" (±1 μm) | .00004" (1 μm) | Friction thimble | 275 g |

\*2 Excluding quantizing error.

Note: All-Digit preset type - models over 125 mm (5") measuring range.

| Range    | L     | a   | b    | c   |
|----------|-------|-----|------|-----|
| 0 - 1"   | 0     | 2.8 | 9    | 25  |
| 1 - 2"   | 25.4  | 2.8 | 9.8  | 32  |
| 2 - 3"   | 50.8  | 2.8 | 12.6 | 47  |
| 3 - 4"   | 76.2  | 2.8 | 14   | 60  |
| 4 - 5"   | 101.6 | 5.3 | 16.7 | 76  |
| 5 - 6"   | 127.0 | 5.7 | 18.8 | 90  |
| 6 - 7"   | 152.4 | 6.1 | 19.1 | 102 |
| 7 - 8"   | 177.8 | 6.3 | 18.2 | 115 |
| 8 - 9"   | 203.2 | 6.7 | 16.8 | 127 |
| 9 - 10"  | 228.6 | 5.5 | 18   | 139 |
| 10 - 11" | 254.0 | 6.5 | 18   | 152 |
| 11 - 12" | 279.4 | 6.5 | 18   | 166 |

## Dimensions

