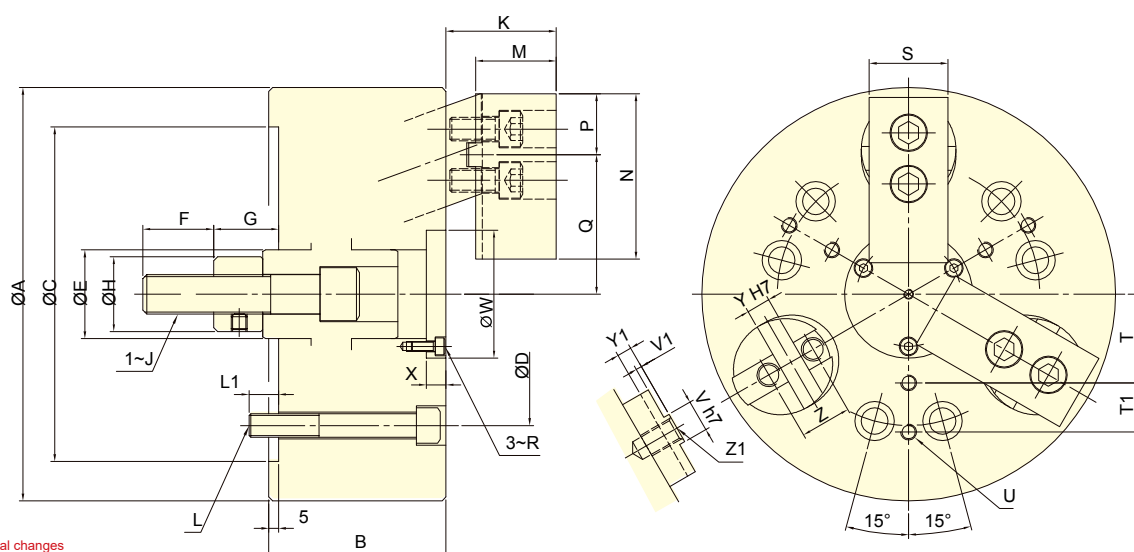




- Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
- Almost no workpiece uplifting displacement.
- The body and the cylinder pull-down mechanism are heat-treated and fine boring, which guarantee the clamping precision and durability.
- Airtight pressure detect function is optional.



Subject to technical changes

## SPECIFICATIONS

| Model | Plunger stroke | Jaw stroke (Dia.) | Chuck Dia. Max. | Chuck Dia. Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Max. pressure              |
|-------|----------------|-------------------|-----------------|-----------------|----------------|---------------------|----------------------------|---------------------|--------|---------------|----------------------------|
|       | mm             | mm                | mm              | mm              | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | MPa (kgf/cm <sup>2</sup> ) |
| 3D-04 | 7              | 5                 | 110             | 13              | 6.0(612)       | 10.5(1070)          | 3500                       | 0.007               | 4.5    | RK-75         | 1.6(16.5)                  |
| 3D-05 | 7              | 5                 | 135             | 21              | 10.0(1020)     | 17.0(1730)          | 3500                       | 0.018               | 7.9    | RK-75         | 2.7(27.5)                  |
| 3D-06 | 10             | 7.2               | 165             | 22              | 15.0(1530)     | 25.0(2550)          | 3500                       | 0.051               | 15     | RK-100        | 2.1(21.4)                  |
| 3D-08 | 10             | 7.2               | 210             | 28              | 25.0(2550)     | 45.0(4590)          | 3000                       | 0.15                | 26     | RK-125        | 2.2(22.5)                  |
| 3D-10 | 15             | 10.8              | 254             | 35              | 35.0(3569)     | 60.0(6118)          | 2500                       | 0.37                | 46     | RK-125        | 3.1(31.6)                  |
| 3D-12 | 15             | 10.8              | 304             | 50              | 45.0(4590)     | 75.0(7650)          | 2000                       | 0.79                | 70     | RK-150        | 2.8(28.5)                  |
| 3D-15 | 20             | 14.5              | 381             | 60              | 53.9(5500)     | 90.0(9180)          | 1500                       | 2.25                | 132    | RK-150        | 3.4(34.2)                  |

## DIMENSIONS

| Model | A   | B   | C (H6) | D     | E  | F  | G max. | G min. | H  | J   | K max. | K min. | L     | L1 | M    | N   | P  |
|-------|-----|-----|--------|-------|----|----|--------|--------|----|-----|--------|--------|-------|----|------|-----|----|
| 3D-04 | 110 | 60  | 85     | 70.6  | 25 | 20 | 22     | 15     | 25 | M10 | 30     | 23     | 3~M10 | 15 | 19.5 | 50  | 22 |
| 3D-05 | 135 | 70  | 110    | 82.6  | 30 | 25 | 24     | 17     | 28 | M12 | 35     | 28     | 3~M10 | 16 | 24.5 | 56  | 23 |
| 3D-06 | 165 | 85  | 140    | 104.8 | 35 | 36 | 37     | 27     | 32 | M16 | 45     | 35     | 6~M10 | 16 | 31   | 70  | 27 |
| 3D-08 | 210 | 90  | 170    | 133.4 | 45 | 36 | 38     | 28     | 38 | M20 | 56     | 46     | 6~M12 | 15 | 41   | 84  | 31 |
| 3D-10 | 254 | 110 | 220    | 171.4 | 55 | 46 | 47     | 32     | 50 | M24 | 65     | 50     | 6~M16 | 24 | 46   | 100 | 38 |
| 3D-12 | 304 | 125 | 220    | 171.4 | 55 | 50 | 49.5   | 34.5   | 53 | M27 | 70     | 55     | 6~M16 | 22 | 51   | 120 | 42 |
| 3D-15 | 381 | 140 | 300    | 235   | 70 | 55 | 61     | 41     | 55 | M30 | 86     | 66     | 6~M20 | 30 | 60   | 165 | 60 |

| Model | Q max. | Q min. | R  | S  | T    | T 1 | U     | V (h7) | V 1 | W   | X  | Y(H7) | Y1  | Z  | Z1  |
|-------|--------|--------|----|----|------|-----|-------|--------|-----|-----|----|-------|-----|----|-----|
| 3D-04 | 37     | 34.5   | M3 | 25 | 22.5 | -   | 3~M6  | 8      | 2.5 | 35  | 2  | 8     | 6   | -  | M10 |
| 3D-05 | 46     | 43.5   | M3 | 30 | 27.5 | -   | 3~M6  | 8      | 2.5 | 44  | 2  | 8     | 6   | -  | M12 |
| 3D-06 | 57.7   | 54.3   | M4 | 35 | 35   | 20  | 6~M6  | 10     | 2.5 | 52  | 7  | 10    | 6.5 | -  | M14 |
| 3D-08 | 70.8   | 67.2   | M5 | 40 | 45   | 25  | 6~M8  | 16     | 3   | 65  | 10 | 12    | 7.5 | 26 | M12 |
| 3D-10 | 85     | 79.6   | M6 | 50 | 55   | 30  | 6~M8  | 18     | 3   | 75  | 12 | 15    | 7.5 | 32 | M14 |
| 3D-12 | 101.9  | 96.5   | M6 | 60 | 70   | 35  | 6~M10 | 20     | 3   | 90  | 12 | 17    | 7.5 | 36 | M16 |
| 3D-15 | 135.6  | 128.3  | M8 | 70 | 95   | 45  | 6~M12 | 24     | 4   | 120 | 13 | 20    | 6   | 40 | M16 |