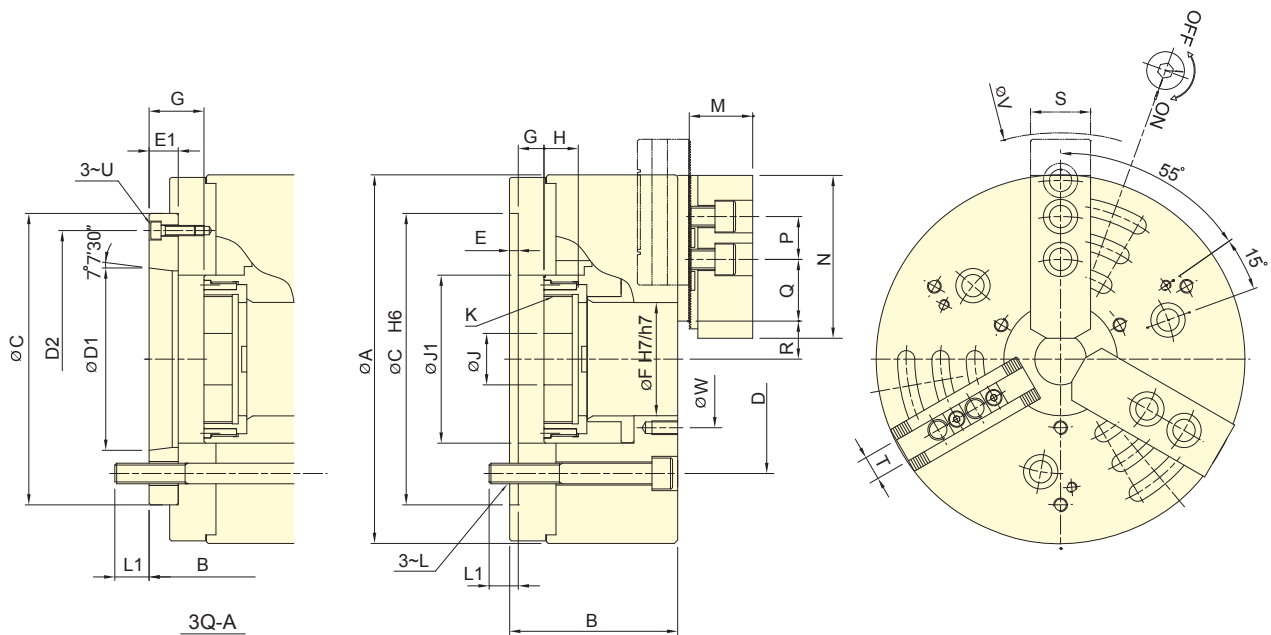




- The shortest changes time for soft jaw, it is the high repeatability precision.
- Chuck of all parts hardened, ground and lubricated directly.
- High rigidity and high clamping accuracy.
- For safety system that master jaw will complete return when base jaw and serration match up properly.



Subject to technical changes

## SPECIFICATIONS

| Model |    | Plunger stroke | Jaw stroke (Dia.) | Chuck Dia. |      | Max. D.B. pull | Max. Clamping force | Max. speed                 | I                 | Weight | Matching cyl.              | Max. pressure |         |
|-------|----|----------------|-------------------|------------|------|----------------|---------------------|----------------------------|-------------------|--------|----------------------------|---------------|---------|
|       |    |                |                   | Max.       | Min. |                |                     |                            | Moment of inertia |        |                            |               |         |
|       |    | 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> ) |               |         |
| 3Q-08 | A6 | 16             | 7.5               | 210        | 23   | 45.0(4590)     | 82.0(8360)          | 5000                       | 0.15              | 24.5   | 26.0                       | TK-1068       | 3.1(31) |
| 3Q-10 | A8 | 19             | 8.8               | 254        | 41   | 60.0(6118)     | 115.0(11270)        | 4500                       | 0.41              | 44.0   | 46.0                       | TK-A1287      | 2.8(28) |
| 3Q-12 | A8 | 23             | 10.6              | 315        | 47   | 81.0(8259)     | 165.0(16825)        | 3500                       | 0.96              | 73.0   | 75.0                       | TK-A1511      | 2.4(25) |

## DIMENSIONS

| Model |    | A   | B   |     | C   | D     | D1     | D2  | E | E1 | F   | G max. |      | G min. |      | H  | J  |
|-------|----|-----|-----|-----|-----|-------|--------|-----|---|----|-----|--------|------|--------|------|----|----|
| 3Q-08 | A6 | 215 | 98  | 110 | 170 | 133.4 | 106.38 | 150 | 5 | 17 | 66  | 14.5   | 32   | -1.5   | 15.5 | 20 | 30 |
| 3Q-10 | A8 | 254 | 119 | 132 | 220 | 171.4 | 139.72 | 190 | 5 | 18 | 81  | 8.5    | 26.5 | -10.5  | 7.5  | 39 | 45 |
| 3Q-12 | A8 | 315 | 133 | 145 | 220 | 171.4 | 139.72 | 190 | 6 | 18 | 106 | 8.5    | 26.5 | -14.5  | 3.5  | 42 | 50 |

| Model |    | J1  | K max. | L   | L1 |    | M  | N   | P  | Q    | R max.    | R min.    | S  | T  | U  | V   | W   |
|-------|----|-----|--------|-----|----|----|----|-----|----|------|-----------|-----------|----|----|----|-----|-----|
| 3Q-08 | A6 | 98  | M75x2  | M12 | 17 | 20 | 37 | 95  | 25 | 36   | 20.8~44.8 | 17.1~41.1 | 35 | 14 | M6 | 264 | 80  |
| 3Q-10 | A8 | 115 | M90x2  | M16 | 23 | 25 | 42 | 110 | 30 | 40.5 | 21.1~52.8 | 16.7~48.2 | 40 | 16 | M8 | 312 | 100 |
| 3Q-12 | A8 | 140 | M115x2 | M16 | 22 | 24 | 50 | 111 | 30 | 57   | 34.1~70.1 | 28.8~64.8 | 50 | 21 | M8 | 360 | 130 |

1. The dimensions and the specifications of 3Q-A type are in red data.