



**CHUCK**

# Independent Chuck (Straight Recess)

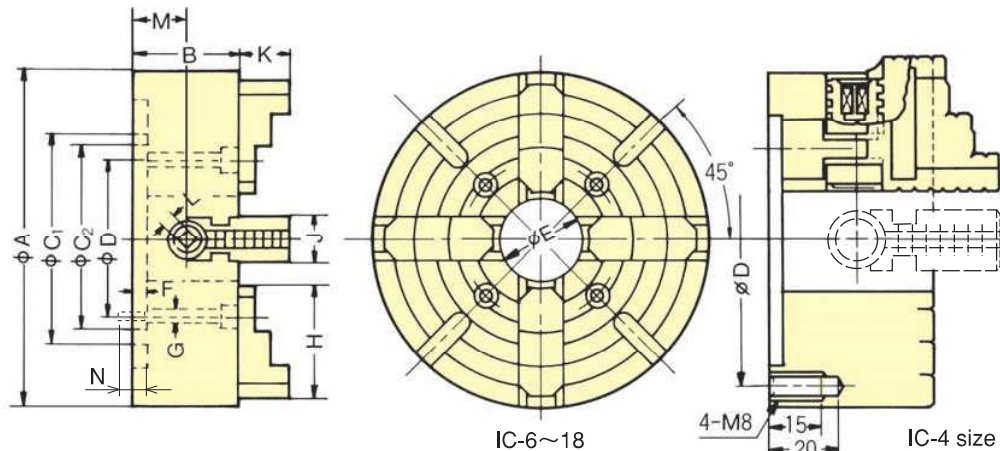
## IC series

### Independent 4 Jaw Chuck

● Straight recess



#### Dimensional Drawings



(Note) In IC-4, 6 and 8, there is no T-groove on the chuck surface.

#### Dimensions

| Type  | Size | A   | B   | C <sub>1</sub> | Size   | Tolerance | D   | E   | F | G     | H   | J  | K  | Size | Tolerance | M    | N  |
|-------|------|-----|-----|----------------|--------|-----------|-----|-----|---|-------|-----|----|----|------|-----------|------|----|
| IC-4  | 100  | 48  | -   | 75H7           | +0.030 | 0         | 86  | 30  | 4 | -     | 40  | 18 | 20 | 6    | 0         | 26   | -  |
| IC-6  | 150  | 60  | -   | 130H7          | +0.040 | 0         | 115 | 40  | 5 | 4-M10 | 55  | 25 | 25 | 8    | 0         | 33   | 16 |
| IC-8  | 200  | 75  | -   | 175H7          | +0.040 | 0         | 155 | 50  | 6 | 4-M12 | 75  | 30 | 30 | 10   | 0         | 43.5 | 20 |
| IC-10 | 250  | 80  | 165 | 150H7          | +0.046 | 0         | 125 | 55  | 6 | 4-M12 | 90  | 30 | 35 | 10   | +0.15     | 47.5 | 21 |
| IC-12 | 300  | 90  | 186 | 170H7          | +0.046 | 0         | 140 | 65  | 6 | 4-M12 | 100 | 35 | 40 | 12   | +0.05     | 53   | 21 |
| IC-14 | 350  | 90  | 210 | 190H7          | +0.046 | 0         | 160 | 75  | 8 | 4-M12 | 110 | 35 | 45 | 12   | 0         | 53   | 18 |
| IC-16 | 400  | 100 | 230 | 210H7          | +0.046 | 0         | 180 | 90  | 8 | 4-M16 | 120 | 40 | 50 | 14   | 0         | 58.5 | 24 |
| IC-18 | 450  | 105 | 250 | 230H7          | +0.046 | 0         | 200 | 100 | 8 | 4-M16 | 130 | 40 | 55 | 14   | 0         | 63.5 | 24 |

#### Specifications

| Type  | Spec. | Thru-Hole<br>mm | Max. Gripping Force          |                                       | Max. Gripping dia.  |                     | Min. Gripping dia.<br>Inner jaw $\phi$ mm | Chuck            |                                        | Max. Speed<br>min <sup>-1</sup> |
|-------|-------|-----------------|------------------------------|---------------------------------------|---------------------|---------------------|-------------------------------------------|------------------|----------------------------------------|---------------------------------|
|       |       |                 | Handle torque<br>N·m (kgf·m) | Tightening force of a jaw<br>kN (kgf) | Inner jaw $\phi$ mm | Outer jaw $\phi$ mm |                                           | Net Weight<br>kg | Moment of inertia<br>kg·m <sup>2</sup> |                                 |
| IC-4  |       | 30              | 34.0 (3.5)                   | 5.0 (510)                             | 40                  | 90                  | 8                                         | 2.4              | 0.003                                  | 2000                            |
| IC-6  |       | 40              | 49.0 (5.0)                   | 6.0 (612)                             | 60                  | 140                 | 8                                         | 6.1              | 0.020                                  | 1600                            |
| IC-8  |       | 50              | 83.0 (8.5)                   | 10.0 (1020)                           | 75                  | 185                 | 14                                        | 14.8             | 0.075                                  | 1600                            |
| IC-10 |       | 55              | 118.0 (12.0)                 | 14.0 (1428)                           | 95                  | 220                 | 14                                        | 21.0             | 0.150                                  | 1600                            |
| IC-12 |       | 65              | 147.0 (15.0)                 | 16.0 (1632)                           | 125                 | 265                 | 18                                        | 29.5             | 0.350                                  | 1400                            |
| IC-14 |       | 75              | 157.0 (16.0)                 | 17.0 (1733)                           | 155                 | 310                 | 20                                        | 40.0             | 0.725                                  | 1400                            |
| IC-16 |       | 90              | 216.0 (22.0)                 | 20.0 (2039)                           | 190                 | 360                 | 30                                        | 56.5             | 1.125                                  | 1200                            |
| IC-18 |       | 100             | 216.0 (22.0)                 | 20.0 (2039)                           | 220                 | 405                 | 35                                        | 70.0             | 1.750                                  | 1200                            |

※T-slot for jig mounting is provided from IC-10 or more.

※Four mounting bolts are provided. (Except IC-4, chucks are mounted with hexagon socket set screws. Consequently, tap the backplate.)

※One hex wrench is attached for the chuck of each size (except IC-4).