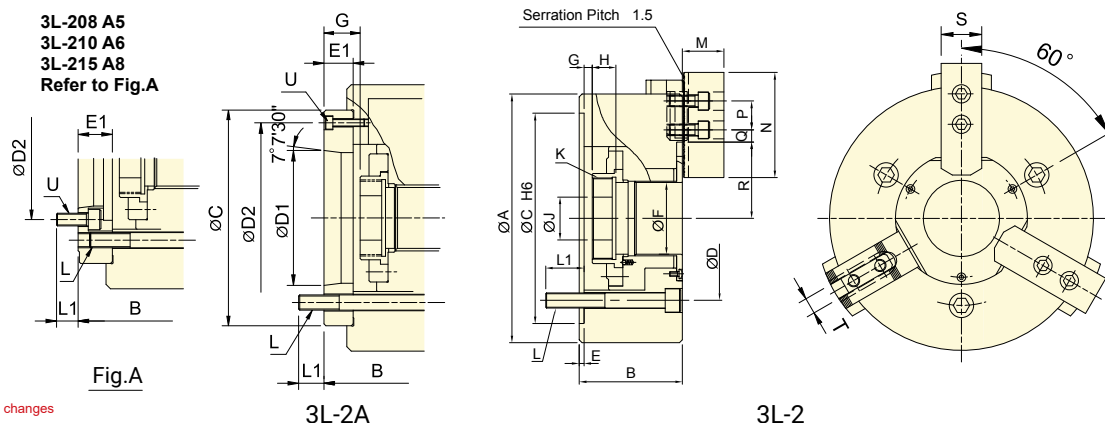




- CRANK type 3-jaw with the large through-hole and extra long jaw stroke.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- High rigidity and high clamping accuracy.
- J is the hole diameter of blank draw nut .  
K is the maximum thread specification and it could be customize.



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> ) |
| 3L-205 | A4  | 12             | 18                | 138             | 6               | 15.6(1590)     | 17.2(1750)          | 4200                       | 0.019               | 7.2    | 8             | 2.3(23)                    |
| 3L-206 | A5  | 15             | 24                | 170             | 24              | 23.5(2400)     | 26.0(2650)          | 3600                       | 0.063               | 14.7   | 15.9          | 2.7(27)                    |
| 3L-208 | A5  | 20             | 32                | 215             | 30              | 34.3(3500)     | 35.0(3570)          | 3000                       | 0.18                | 23     | 25.7          | 2.8(28)                    |
| 3L-208 | A6  | 20             | 32                | 215             | 30              | 34.3(3500)     | 35.0(3570)          | 3000                       | 0.18                | 23     | 24.6          | 2.8(28)                    |
| 3L-210 | A6  | 25             | 37.5              | 260             | 53              | 47.7(4870)     | 48.0(4895)          | 2400                       | 0.35                | 39.5   | 46.5          | 3.1(31)                    |
| 3L-210 | A8  | 25             | 37.5              | 260             | 53              | 47.7(4870)     | 48.0(4895)          | 2400                       | 0.35                | 39.5   | 45            | 3.1(31)                    |
| 3L-212 | A8  | 30             | 45                | 315             | 61              | 64.7(6600)     | 61.0(6220)          | 2100                       | 0.827               | 67.3   | 70.5          | 3.0(30)                    |
| 3L-215 | A8  | 35             | 52                | 405             | 52              | 84.3(8600)     | 85.0(8665)          | 1600                       | 2.58                | 139    | 152           | 2.7(27)                    |
| 3L-215 | A11 | 35             | 52                | 405             | 52              | 84.3(8600)     | 85.0(8665)          | 1600                       | 2.58                | 139    | 145           | 2.7(27)                    |

### DIMENSIONS

| Model  |     | A   | B   |     | C   | D     | D1     | D2    | E | E1 | F   | G max. |      | G min. |      | H  | J  |
|--------|-----|-----|-----|-----|-----|-------|--------|-------|---|----|-----|--------|------|--------|------|----|----|
| 3L-205 | A4  | 138 | 65  | 76  | 110 | 82.6  | 63.51  | 96    | 4 | 15 | 32  | 1      | 15   | -11    | 3    | 20 | 12 |
| 3L-206 | A5  | 170 | 84  | 97  | 140 | 104.8 | 82.56  | 116   | 5 | 18 | 45  | 6.5    | 24.5 | -8.5   | 9.5  | 19 | 20 |
| 3L-208 | A5  | 215 | 96  | 114 | 170 | 133.4 | 82.56  | 104.8 | 5 | 23 | 52  | 7      | 30   | -13    | 10   | 20 | 30 |
| 3L-208 | A6  | 215 | 96  | 114 | 170 | 133.4 | 106.38 | 150   | 5 | 23 | 52  | 7      | 30   | -13    | 10   | 20 | 30 |
| 3L-210 | A6  | 260 | 108 | 128 | 220 | 171.4 | 106.38 | 133.4 | 5 | 25 | 75  | 8.5    | 33   | -16.5  | 8    | 25 | 45 |
| 3L-210 | A8  | 260 | 108 | 121 | 220 | 171.4 | 139.72 | 190   | 5 | 18 | 75  | 8.5    | 26.5 | -16.5  | 1.5  | 25 | 45 |
| 3L-212 | A8  | 315 | 125 | 138 | 220 | 171.4 | 139.72 | 190   | 5 | 18 | 91  | 15     | 33   | -15    | 3    | 30 | 50 |
| 3L-215 | A8  | 405 | 150 | 177 | 300 | 235   | 139.72 | 171.4 | 6 | 33 | 120 | 12.5   | 45.5 | -22.5  | 10.5 | 39 | 60 |
| 3L-215 | A11 | 405 | 150 | 166 | 300 | 235   | 196.87 | 260   | 6 | 22 | 120 | 12.5   | 34.5 | -22.5  | -0.5 | 39 | 60 |

| Model  |     | K max.  |       | L     | L1 |      | M  | N   | P  | Q max. | Q min. | R max. | R min. | S  | T    | U     |
|--------|-----|---------|-------|-------|----|------|----|-----|----|--------|--------|--------|--------|----|------|-------|
| 3L-205 | A4  | M40x1.5 |       | 3~M10 | 15 | 15   | 31 | 62  | 14 | 15.75  | 5.25   | 38.5   | 29.5   | 25 | 10   | 3~M6  |
| 3L-206 | A5  | M55x2   |       | 3~M10 | 18 | 15   | 37 | 73  | 20 | 15.25  | 7.75   | 51     | 39     | 31 | 12   | 3~M6  |
| 3L-208 | A5  | M60x2   |       | 3~M12 | 18 | 19   | 38 | 95  | 25 | 19.25  | 10.25  | 63.5   | 47.5   | 35 | 14   | 6~M10 |
| 3L-208 | A6  | M60x2   |       | 3~M12 | 18 | 20   | 38 | 95  | 25 | 19.25  | 10.25  | 63.5   | 47.5   | 35 | 14   | 3~M6  |
| 3L-210 | A6  | M85x2   | M60x2 | 3~M16 | 24 | 20   | 43 | 110 | 30 | 24.75  | 11.25  | 80     | 61.25  | 40 | 16   | 3~M12 |
| 3L-210 | A8  | M85x2   |       | 3~M16 | 24 | 21   | 43 | 110 | 30 | 24.75  | 11.25  | 80     | 61.25  | 40 | 16   | 3~M8  |
| 3L-212 | A8  | M100x2  |       | 3~M16 | 24 | 21   | 51 | 130 | 30 | 29.75  | 13.25  | 96.5   | 74     | 50 | 21   | 3~M8  |
| 3L-215 | A8  | M130x2  |       | 6~M20 | 33 | 27.5 | 63 | 165 | 43 | 34.75  | 13.75  | 119    | 93     | 62 | 25.5 | 6~M16 |
| 3L-215 | A11 | M130x2  |       | 6~M20 | 33 | 31   | 63 | 165 | 43 | 34.75  | 13.75  | 119    | 93     | 62 | 25.5 | 3~M10 |

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