





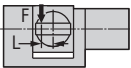



# TTNC-1500

LARGE CAPACITY ROTARY TABLE

**TSUDAKOMA**

# TSUDAKOMA TTNC-SERIES

| Model                              |   | TN-450   | TTNC-631          | TTNC-1001         | TTNC-1500                  |                     |                     |                   |                            |
|------------------------------------|---|--|-------------------|-------------------|----------------------------|---------------------|---------------------|-------------------|----------------------------|
| Tilt Range                         |   | -10° ~ +95°  | -10° ~ +95°       | -20° ~ +110°      | -30° ~ +95°                |                     |                     |                   |                            |
| Table diameter                     | mm  | 450  | 630               | 1,000             | 1,500                      |                     |                     |                   |                            |
| Table height at 0° position        | mm  | 425  | 585               | 900               | 1,155                      |                     |                     |                   |                            |
| Center height at 90° position      | mm  | 325  | 450               | 700               | 1,055                      |                     |                     |                   |                            |
| Center bore                        | Nose Diameter   | mm   | 140H7             | 180H6             | 75H7                       | 75H7                |                     |                   |                            |
|                                    | Thru Diameter   | mm   | 140               | 180               | -                          | -                   |                     |                   |                            |
| Table T-slot width                 |   | 14H7   | 18H7              | 22H7              | 28H7                       |                     |                     |                   |                            |
| Guide block width                  |   | 18h7   | 18h7              | -                 | -                          |                     |                     |                   |                            |
| Servo motor (Fanuc)*               |   | Rotary   | Tilt              | Rotary            | Tilt                       | Rotary              | Tilt                | Rotary            | Tilt                       |
|                                    |   | Alpha 12i  | Alpha 12i         | Alpha 12i         | Alpha 12i                  | Alpha 22i           | Alpha 30i           | Alpha 30i         | Alpha 30i                  |
| Maximum motor speed                | rpm   | 4,000  | 4,000             | 4,000             | 4,000                      | 3,000               | 2,000               | 2,000             | 2,000                      |
| Speed reduction ratio              |   | 1/180  | 1/360             | 1/180             | 1/360                      | 1/360               | 1/1,440             | 1/720             | 1/1,440                    |
| Maximum table speed                | rpm   | 22.2   | 11.1              | 22.2              | 11.1                       | 8.3                 | 1.4                 | 2.7               | 1.4                        |
| Inertia converted into motor shaft | $\times 10^{-3}\text{kg}\cdot\text{m}^2$  | 1.98   | 2.7               | 5.42              | 3.77                       | 4.37                | 4.1                 | 5.37              | 7.46                       |
| Clamp system**                     |   | Hydraulic @500psi  | Hydraulic @500psi | Hydraulic @500psi | Hydraulic @500psi          | Hydraulic @1,000psi | Hydraulic @1,000psi | Hydraulic @500psi | Hydraulic @500psi          |
| Clamp torque                       | Nm (ft. lbs.)   | 980 (722)  | 980 (722)         | 4,410 (3,250)     | 2,352 (1,733)              | 9,800 (7,223)       | 19,600 (14,445)     | 12,000 (8,844)    | 12,500 x (2) (9,213) x (2) |
| Indexing accuracy                  | arc sec.  | ±7.5   | -                 | ±7.5              | -                          | ±7.5                | -                   | ±10               | -                          |
| Tilting accuracy                   | arc sec.  | -  | ±30               | -                 | ±30                        | -                   | ±30                 | -                 | ±22.5 (scale)              |
| Net Weight                         | kg (lbs.)   | 780 (1,716)  | 1,700 (3,740)     | 4,600 (10,120)    | 12,000 (26,400)            |                     |                     |                   |                            |
| Allowable wheel torque - rotary    | Nm (ft. lbs.)   | 1,666 (1,228)  | 3,284 (4,420)     | 13,230 (9,751)    | 21,560 (15,890)            |                     |                     |                   |                            |
| Allowable work inertia             | $\text{kg}\cdot\text{m}^2$  | 5.1  | 29.7              | 312.6             | 2,255                      |                     |                     |                   |                            |
| Allowable work weight              | 0° tilt angle   |  kg (lbs) | 200 (440)         | 600 (1,320)       | 2,500 (5,500)              | 2,500 (5,500)       |                     |                   |                            |
|                                    | 0° ~ 90° tilt angle   |  kg (lbs) | 150 (330)         | 300 (660)         | 1,500 (3,300)              | 1,500 (3,300)       |                     |                   |                            |
| Allowable work moment              |  Nm (ft. lbs.) | 294 (217)  | 980 (722)         | 7,840 (5,778)     | 7,840 (5,778)              |                     |                     |                   |                            |
| Allowable load when table clamped  |  N (lbf)       | 19,600 (4,390)   | 24,500 (5,488)    | 29,400 (6,587)    | 49,000 (10,976)            |                     |                     |                   |                            |
|                                    |  Nm (ft. lbs.) | 980 (722)  | 4,410 (3,250)     | 9,800 (7,223)     | 12,000 (8,844)             |                     |                     |                   |                            |
|                                    |  Nm (ft. lbs.) | 980 (722)  | 2,352 (1,733)     | 19,600 (14,445)   | 12,500 x (2) (9,213) x (2) |                     |                     |                   |                            |

\* Other motors & RPM available • \*\* Booster optional • Specifications subject to change without notice