



## Chester 2 Axis Turning Centre • HAWK TC-150 - TC-200L



### Standard Accessories:

- ✓ Siemens 828D
- ✓ Shopturn
- ✓ MPG
- ✓ 6000rpm belt drive spindle (Siemens 828D) (TC-150-150L only)
- ✓ 5000rpm belt drive spindle (Siemens 828D) (TC-200 & TC-200L only)
- ✓ 4000rpm belt drive spindle (Siemens 828D) (TC-200 Plus only)
- ✓ 8 position servo turret (TC-150-200 & 200L only)
- ✓ 12 position hydraulic turret (TC-200 Plus only)
- ✓ 6" hollow hydraulic chuck with 1 set soft jaw (TC-150-150L only)
- ✓ 8 position hydraulic turret (TC-200 only)
- ✓ 12 position hydraulic turret (TC-200 Plus only)
- ✓ 10" hollow chuck and cylinder (TC-200L only)
- ✓ Roller guideway (TC-200 Plus only)
- ✓ Hollow hydraulic cylinder
- ✓ Hydraulic system
- ✓ Heat exchanger (TC-200 Plus & 200L only)
- ✓ Auto chip conveyer (rear) & chip cart
- ✓ Auto oil lubrication system
- ✓ Tri-color light
- ✓ Air Gun
- ✓ Door lock switch (TC-200 & 200L only)
- ✓ Power on/off indicator on electric cabinet door (TC-200 Plus only)
- ✓ Lighting lamp
- ✓ Full enclosure splash guard
- ✓ Telescopic covers

### Optional Accessories:

- ☐ FANUC Oi TF(5) CNC system
- ☐ Auto Parts Catcher
- ☐ Bar feeder Interface
- ☐ M30 Auto Power Off
- ☐ Hydraulic tailstock (only quill)
- ☐ Full hydraulic tailstock
- ☐ Bar feeder DH65
- ☐ Renishaw tools measure HPMa
- ☐ Air conditioner for cabinet



## Technical Specifications

| Technical Specifications             |   | TC-150           | TC-150L          | TC-200           | TC-200 Plus      | TC-200L          |
|--------------------------------------|---|------------------|------------------|------------------|------------------|------------------|
| <b>Processing Range</b>              |   |                  |                  |                  |                  |                  |
| Max Swing over Bed                   |   | Φ500mm           | Φ450mm           | Φ550mm           | Φ550mm           | Φ550mm           |
| Max Swing over Saddle                |   | Φ300mm           | Φ230mm           | Φ330mm           | Φ330mm           | Φ370mm           |
| Max Turning Diameter                 |   | Φ320mm           | Φ350mm           | Φ360mm           | Φ320mm           | Φ360mm           |
| Max Turning Length                   |   | 320mm            | 445mm            | 435mm            | 435mm            | 810mm            |
| Max Bar Capacity                     |   | Φ44mm            | Φ44mm            | Φ44mm            | Φ66mm            | Φ44mm            |
| <b>Spindle</b>                       |   |                  |                  |                  |                  |                  |
| Max Spindle Speed                    |   | 6000rpm          | 6000rpm          | 5000rpm          | 4000rpm          | 5000rpm          |
| Spindle Nose                         |   | A2-5             | A2-5             | A2-6             | A2-6             | A2-6             |
| Spindle Bore                         |   | Φ56mm            | Φ56mm            | Φ56mm            | Φ76mm            | Φ56mm            |
| Spindle Taper                        |   | Morse 6#         | Morse 6#         | Morse 6#         | Metric 85        | Morse 6#         |
| Height from spindle centre to ground |   | 915mm            | 940mm            | 1000mm           | 1000mm           | 1000mm           |
| <b>Hydraulic Tailstock</b>           |   |                  |                  |                  |                  |                  |
| Tailstock Quill Diameter             |   | -                | -                | -                | -                | 1000mm           |
| Tailstock Quill Travel               |   | -                | -                | -                | -                | Φ100mm           |
| Quill Centre                         |   | -                | -                | -                | -                | 5# (Live center) |
| <b>Axis X/Z</b>                      |   |                  |                  |                  |                  |                  |
| Travel X/Z                           |   | 180/350mm        | 2000/455mm       | 240/455mm        | 240/455mm        | 240/830mm        |
| Rapid Travel Speed X/Z               |   | 30/30m/min       | 24/30m/min       | 24/30m/min       | 30/36m/min       | 24/30m/min       |
| X Axis ball screw dia/pitch          |   | Φ32/10mm         | Φ32/8mm          | Φ32/8mm          | Φ32/10mm         | Φ32/8mm          |
| Z Axis ball screw dia/pitch          |   | Φ32/10mm         | Φ32/10mm         | Φ32/10mm         | Φ32/12mm         | Φ32/10mm         |
| <b>Hydraulic Turret</b>              |   |                  |                  |                  |                  |                  |
| Tool Position                        |   | 8                | 8                | 8                | 12               | 8                |
| Turning tool shank size              |   | 25x25mm          | 25x25mm          | 25x25mm          | 25x25mm          | 25x25mm          |
| Boring tool holder diameter          |   | Φ40mm            | Φ40mm            | Φ40mm            | Φ40mm            | Φ40mm            |
| <b>Machining Accuracy</b>            |   |                  |                  |                  |                  |                  |
| Positioning Accuracy                 | X | 0.006mm          | 0.006mm          | 0.006mm          | 0.006mm          | 0.006mm          |
|                                      | Z | 0.006mm          | 0.006mm          | 0.006mm          | 0.006mm          | 0.006mm          |
| Repeatability Accuracy               | X | 0.004mm          | 0.004mm          | 0.004mm          | 0.004mm          | 0.004mm          |
|                                      | Z | 0.004mm          | 0.004mm          | 0.004mm          | 0.004mm          | 0.004mm          |
| <b>Other</b>                         |   |                  |                  |                  |                  |                  |
| Power capacity                       |   | 15kVa            | 25kVa            | 25kVa            | 25kVa            | 25kVa            |
| Spindle motor power                  |   | 5.5/7.5kW        | 7.5/11kW         | 7.5/11kW         | 11.0/15.0kW      | 7.5/11kW         |
| Machine dimensions (L x W x H)       |   | 1850×2550×1550mm | 3660×1790×1720mm | 3660×1790×1820mm | 3660×1790×1820mm | 4160×1820×1820mm |
| Weight                               |   | 2600kg           | 3400kg           | 3500kg           | 3500kg           | 4200kg           |