



Excellence in Metal Cutting

HICUT SERIES



HC

250-500 | 300-500 | 400-500 | 300-800 | 400-800 | 300-1000 | 400-1000  
300-1250 | 400-1250 | 300-1500 | 400-1500 | 300-1800 | 400-1800 | 400-2000  
300-2500 | 400-3000 | 500-3000 | 400-3500 | 700-3500 | 500-4000 | 700-4000

**YANTRANG CNC**  
AUTOMATION PVT. LTD.



| CAPACITY                        | UNIT   | 250/500  | 300/500  | 400/500   | 300/800  | 400/800   | 300/1000 | 400/1000  | 300/1250 | 400/1250  | 300/1500 |
|---------------------------------|--------|----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| SWING OVER BED                  | MM     | 500      | 600      | 700       | 600      | 700       | 600      | 700       | 600      | 700       | 600      |
| MAXIMUM TURNING LENGTH          | MM     | 500      | 500      | 500       | 800      | 800       | 1000     | 1000      | 1250     | 1250      | 1500     |
| MAXI. DIA. BETWEEN CENTER       | MM     | 300      | 400      | 500       | 400      | 500       | 400      | 500       | 400      | 500       | 400      |
| DISTANCE BETWEEN CENTER         | MM     | 500      | 500      | 500       | 800      | 800       | 1000     | 1000      | 1250     | 1250      | 1500     |
| STANDARD TURNING DIA.           | MM     | 200      | 300      | 400       | 300      | 400       | 300      | 400       | 300      | 400       | 300      |
| CHUCK SIZE                      | MM     | 250      | 300      | 400       | 300      | 400       | 300      | 400       | 300      | 400       | 300      |
| MAX. TURNING DIA.               | MM     | 400      | 500      | 600       | 500      | 600       | 500      | 600       | 500      | 600       | 500      |
| X-AXIS TRAVEL                   | MM     | 225      | 275      | 325       | 275      | 325       | 275      | 325       | 275      | 325       | 275      |
| Z-AXIS TRAVEL                   | MM     | 500      | 500      | 500       | 800      | 800       | 1000     | 1000      | 1250     | 1250      | 1500     |
| RAPID TRANSVERSE (X axis)       | M/Min. | 20       | 20       | 20        | 20       | 20        | 20       | 20        | 20       | 20        | 20       |
| RAPID TRANSVERSE (Z axis)       | M/Min. | 20       | 20       | 20        | 20       | 20        | 20       | 20        | 20       | 20        | 15       |
| <b>SLIDE</b>                    |        |          |          |           |          |           |          |           |          |           |          |
| X AXIS BALL SCREW (P x D)       |        | 32 x 10  | 40 x 10  | 40 x 10   | 40 x 10  | 40 x 10   | 40 x 10  | 40 x 10   | 40 x 10  | 40 x 10   | 40 x 10  |
| Z AXIS BALL SCREW (P x D)       |        | 32 x 10  | 40 x 10  | 40 x 10   | 40 x 10  | 40 x 10   | 40 x 10  | 40 x 10   | 40 x 10  | 40 x 10   | 40 x 10  |
| MOTOR TORQUE (Z axis)           | NM     | 11       | 11       | 11        | 11       | 11        | 11       | 11        | 11       | 11        | 20       |
| MOTOR TORQUE (X axis)           | NM     | 11       | 11       | 11        | 11       | 11        | 11       | 11        | 11       | 11        | 11       |
| <b>MAIN SPINDLE</b>             |        |          |          |           |          |           |          |           |          |           |          |
| SPINDLE MOTOR : Siemens         | KW     | 12/16    | 12/16    | 12/16     | 12/16    | 12/16     | 12/16    | 12/16     | 12/16    | 12/16     | 15/18    |
| Fanuc / Mitsubishi              | KW     | 11/15    | 11/15    | 11/15     | 11/15    | 11/15     | 11/15    | 11/15     | 11/15    | 11/15     | 11/15    |
| SPINDLE BORE                    |        | 55 (65)  | 75 (85)  | 75 (85)   | 75 (85)  | 75 (85)   | 75 (85)  | 75 (85)   | 75 (85)  | 75 (85)   | 75 (85)  |
| SPINDLE NOSE (OPTIONAL)         |        | A2-6 (8) | A2-8     | A2-8 (11) | A2-8     |
| MAXIMUM BAR CAPACITY            | MM     | 42 (52)  | 60 (75)  | 60 (75)   | 60 (75)  | 60 (75)   | 60 (75)  | 60 (75)   | 60 (75)  | 60 (75)   | 60 (75)  |
| MAXIMUM BAR CAPACITY (OPTIONAL) | MM     | 75 (90)  | 90       | 90 (150)  | 90       | 90 (100)  | 90       | 90 (110)  | 90       | 90 (130)  | 90       |
| SPINDLE SPEED RANGE             | RPM    | 50-3000  | 50-2500  | 50-1800   | 50-2500  | 50-1800   | 50-2500  | 50-1800   | 50-2500  | 50-1800   | 50-2500  |
| FUL POWER SPEED RANGE           | RPM    | 750-2250 | 500-1500 | 500-1500  | 500-1500 | 500-1500  | 500-1500 | 500-1500  | 500-1500 | 500-1500  | 500-1500 |
| <b>TURRET</b>                   |        |          |          |           |          |           |          |           |          |           |          |
|                                 |        | BTP-80   | BTP-100  | BTP-100   | BTP-100  | BTP-100   | BTP-100  | BTP-100   | BTP-100  | BTP-100   | BTP-100  |
| NUMBER OF STATION               |        | 8        | 8        | 8         | 8        | 8         | 8        | 8         | 8        | 8         | 8        |
| MAX. BORING BAR DIA.            |        | 40       | 40       | 40        | 40       | 40        | 40       | 40        | 40       | 40        | 40       |
| TOOL SIZE (CROSS SECTION)       |        | 25 x 25  | 25 x 25  | 25 x 25   | 25 x 25  | 25 x 25   | 25 x 25  | 25 x 25   | 25 x 25  | 25 x 25   | 25 x 25  |
| <b>TAIL STROCKE</b>             |        |          |          |           |          |           |          |           |          |           |          |
| QUILL DIA.                      |        | 85       | 85       | 85        | 85       | 85        | 85       | 85        | 85       | 85        | 85       |
| QUILL STROCK                    |        | 120      | 120      | 120       | 120      | 120       | 120      | 120       | 120      | 120       | 120      |
| THRUST (ADJUSTABLE)             | KGf    | 500      | 500      | 500       | 500      | 500       | 500      | 500       | 500      | 500       | 500      |
| <b>OTHERS</b>                   |        |          |          |           |          |           |          |           |          |           |          |
| WEIGHT                          | KG.    | 3500     | 4000     | 4100      | 4700     | 4800      | 5200     | 5300      | 5700     | 5800      | 6500     |
| POSITIONING ACCURACY            | MM     | 0.010    | 0.010    | 0.010     | 0.010    | 0.01      | 0.01     | 0.01      | 0.01     | 0.01      | 0.01     |
| REPEATABILITY                   | MM     | 0.005    | 0.005    | 0.005     | 0.005    | 0.005     | 0.005    | 0.005     | 0.005    | 0.005     | 0.005    |

- MAXIMUM THROUGH BAR CAPACITY UPTO 300MM AVAILABLE
- BOX GUIDE WAY RAPID 20m/Min.

NOTE : Specification Subject to Change without Prior Notice.

# HICUT SERIES

CNC Turning Center



| CAPACITY                      | UNIT   | 400/1500  | 300/1800 | 400/1800  | 400/2000 | 400/2500 | 400/3000 | 500/3000   | 500/3500   | 700/3500   | 500/4000   | 700/4000   |
|-------------------------------|--------|-----------|----------|-----------|----------|----------|----------|------------|------------|------------|------------|------------|
| SWING OVER BED                | MM     | 700       | 600      | 700       | 700      | 700      | 700      | 800        | 800        | 1000       | 800        | 1000       |
| MAXIMUM TURNING LENGTH        | MM     | 1500      | 1800     | 1800      | 2000     | 2400     | 2950     | 2950       | 3450       | 3450       | 3950       | 3950       |
| MAXI. DIA. BETWEEN CENTER     | MM     | 500       | 400      | 500       | 340      | 500      | 380      | 380        | 380        | 410        | 380        | 410        |
| DISTANCE BETWEEN CENTER       | MM     | 1500      | 1800     | 1800      | 2000     | 2500     | 3000     | 3000       | 3500       | 3500       | 3500       | 3500       |
| STANDARD TURNING DIA.         | MM     | 400       | 300      | 400       | 400      | 400      | 400      | 500        | 500        | 700        | 500        | 700        |
| CHUCK SIZE                    | MM     | 400       | 300      | 400       | 400      | 400      | 400      | 530        | 530        | 530        | 530        | 530        |
| MAX. TURNING DIA.             | MM     | 600       | 500      | 600       | 600      | 600      | 600      | 650        | 650        | 900        | 650        | 900        |
| X-AXIS TRAVEL                 | MM     | 325       | 275      | 325       | 325      | 325      | 325      | 350        | 350        | 475        | 350        | 475        |
| Z-AXIS TRAVEL                 | MM     | 1500      | 1800     | 1800      | 2010     | 2500     | 3000     | 3000       | 3500       | 3500       | 4000       | 4000       |
| RAPID TRANSVERSE (X axis)     | M/Min. | 20        | 20       | 20        | 20       | 20       | 15       | 15         | 15         | 15         | 15         | 15         |
| RAPID TRANSVERSE (Z axis)     | M/Min. | 15        | 15       | 15        | 15       | 15       | 10       | 10         | 8          | 8          | 8          | 8          |
| <b>SLIDE</b>                  |        |           |          |           |          |          |          |            |            |            |            |            |
| X AXIS BALL SCREW (P x D)     |        | 40 x 10   | 40 x 10  | 40 x 10   | 40 x 10  | 40 x 10  | 40 x 10  | 40 x 10    | 40 x 10    | 40 x 10    | 40 x 10    | 40 x 10    |
| Z AXIS BALL SCREW (P x D)     |        | 40 x 10   | 40 x 10  | 40 x 10   | 40 x 10  | 50 x 10  | 50 x 10  | 50 x 10    | 63 x 10    | 63 x 10    | 63 x 10    | 63 x 10    |
| MOTOR TORQUE (Z axis)         | NM     | 20        | 20       | 20        | 20       | 20       | 20       | 20         | 20         | 20         | 20         | 20         |
| MOTOR TORQUE (X axis)         | NM     | 11        | 11       | 11        | 11       | 16       | 20       | 20         | 20         | 20         | 20         | 20         |
| <b>MAIN SPINDLE</b>           |        |           |          |           |          |          |          |            |            |            |            |            |
| SPINDLE MOTOR : Siemens       | KW     | 15/18     | 15/18    | 15/18     | 15/18    | 18/22    | 18/22    | 18/22      | 22/26      | 22/26      | 22/26      | 22/26      |
| Fanuc / Mitsubishi            | KW     | 11/15     | 11/15    | 11/15     | 15/18    | 18/22    | 18/22    | 18/22      | 22/26      | 22/26      | 22/26      | 22/26      |
| SPINDLE BORE                  |        | 75 (85)   | 75 (85)  | 75 (85)   | 110      | 110      | 110      | 110        | 110        | 110        | 110        | 110        |
| SPINDLE NOSE (OPTIONAL)       |        | A2-8 (11) | A2-8     | A2-8 (11) | A2-11    | A2-11    | A2-11    | A2-11 (15) |
| MAXIMUM BAR CAPACITY          | MM     | 60 (75)   | 60 (75)  | 60 (75)   | 90       | 90       | 90       | 90         | 90         | 90         | 90         | 90         |
| MAXI. BAR CAPACITY (OPTIONAL) | MM     | 90 (130)  | 90       | 90 (130)  | 151      | 151      | 151      | 151        | 230        | 230        | 230        | 230        |
| SPINDLE SPEED RANGE           | RPM    | 50-2000   | 50-2500  | 50-2000   | 50-2000  | 50-2000  | 50-2000  | 50-1200    | 50-1200    | 50-1200    | 50-1200    | 50-1200    |
| FUL POWER SPEED RANGE         | RPM    | 400-1200  | 500-1500 | 400-1200  | 400-1200 | 400-1200 | 400-1200 | 300-1000   | 300-1000   | 300-1000   | 300-1000   | 300-1000   |
| <b>TURRET</b>                 |        |           |          |           |          |          |          |            |            |            |            |            |
|                               |        | BTP-100   | BTP-100  | BTP-125   | BTP-125  | BTP-125  | BTP-125  | BTP-125    | BTP-125    | BTP-160    | BTP-160    | BTP-160    |
| NUMBER OF STATION             |        | 8         | 8        | 8         | 8        | 8        | 8        | 8          | 8          | 8          | 8          | 8          |
| MAX. BORING BAR DIA.          |        | 40        | 40       | 40        | 50       | 50       | 50       | 50         | 50         | 60         | 60         | 60         |
| TOOL SIZE (CROSS SECTION)     |        | 25 x 25   | 25 x 25  | 25 x 25   | 32 x 32  | 32 x 32  | 32 x 32  | 32 x 32    | 32 x 32    | 32 x 32    | 32 x 32    | 32 x 32    |
| <b>TAIL STROCKE</b>           |        |           |          |           |          |          |          |            |            |            |            |            |
| QUILL DIA.                    |        | 85        | 130      | 130       | 130      | 130      | 130      | 130        | 130        | 170        | 170        | 170        |
| QUILL STROCK                  |        | 120       | 120      | 120       | 120      | 120      | 120      | 120        | 120        | 120        | 120        | 120        |
| THRUST (ADJUSTABLE)           | KGF    | 500       | 500      | 500       | 500      | 500      | 500      | 500        | 500        | 1000       | 1000       | 1000       |
| <b>OTHERS</b>                 |        |           |          |           |          |          |          |            |            |            |            |            |
| WEIGHT                        | KG.    | 6600      | 7500     | 8000      | 9000     | 11000    | 12500    | 12900      | 14000      | 15500      | 16000      | 17000      |
| POSITIONING ACCURACY          | MM     | 0.01      | 0.01     | 0.01      | 0.01     | 0.01     | 0.012    | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      |
| REPEATABILITY                 | MM     | 0.005     | 0.005    | 0.005     | 0.005    | 0.005    | 0.01     | 0.01       | 0.01       | 0.01       | 0.01       | 0.01       |

- MAXIMUM THROUGH BAR CAPACITY UPTO 300MM AVAILABLE
- BOX GUIDE WAY RAPID 20m/Min.

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## HICUT SERIES

CNC Turning Center

### CONTROL SYSTEM FEATURES :

- Manual Data Input
- 2 Axis Simultaneous
- Part Program Storage and Editing
- Constant Surface Speed Control
- Tool Nose Radius Compensation
- Feed Rate Override
- Circular Interpolation
- Threaded Cutting Cycle
- Direct Drawing Dimensions Programming
- Absolute / Incremental Programming
- RS-232 Serial Interface Port
- Backlash Compensation
- Graphic Simulation
- Electronic Hand Wheel
- Run Hour Display
- LCD Display
- Self Diagnostick
- USB Port

### STANDARD FEATURES :

- Hardened & Ground Box Guideways
- AC Spindle Drive & Servo Drive
- Hydraulic Chuck with Actuating cylinder
- Hydraulic Unit, Foot Switch, Coolant System
- Centralized Lubrication System
- Electrical Quality Device
- Boring holder & Axial holder

### OPTIONAL :

- Chip Conveyor
- Bar Feeder
- Bar Puller
- Hydraulic Turret
- Stabilizer

## YANTRANG CNC AUTOMATION PVT. LTD.

📍 NH-8B, GONDAL ROAD, OPP. PARIN FURNITURE,  
INSIDE FROM RAILWAY CROSSING, GOVIND BAG,  
KOTHARIYA, RAJKOT-360 022. (GUJARAT) INDIA.

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