

FANUC 31iB

HL Series CNC Controller

| Standard Specification | Option Specification |
|--|---|
| <ul style="list-style-type: none"> • Max. Controlled axes (2 axes) • Simultaneously controlled axes (2 axes) • Least input increment 0.001 min/0.0001* • Inch / Metric conversion • Mirror image • Backlash compensation • Pitch error compensation • MDI operation • Program number search • Sequence number search • Buffer register • Dry run • Single block • Manual reference position return • Incremental feed (X1, X10, X100, X1000) • Jog and handle simultaneous mode • Manual handle feed • Linear interpolation - G01 • Circular interpolation - G02, G03 • Dwell - G04 • Skip function - G31 • Reference position return - G28 • 2nd reference position return - G30 • Rapid traverse rate (Max. 10m/min) • Rapid traverse override (F0, 25, 50, 100%) • Feed per minute / Feed per revolution • Programmable data input | <ul style="list-style-type: none"> • Automatic acceleration/deceleration • Optional block skip (1) • Max. programmable dimension (8 - digit) • Program number (04 - digit) • Sequence number (05 - digit) • Input unit 10 time multiply • Coordinate system shift • Auxiliary function (M8 - digit) • Spindle speed function (S5-digit) • Tool function • Tool nose radius compensation • Part program storage length 1Mb • Number of registerable programs Total (63) • Part program editing • Background editing • Self-diagnosis function • Alarm display • Operation history display • Language display English • Data protection key • Memory card interface • Reader / puncher interface RS 232C • Setting and display unit 10.4" color LCD • Cutting feed rate damp • Ethernet Function • Continuous threading |



HCL Series CNC Controller

| Standard Specification | Option Specification |
|--|--|
| <ul style="list-style-type: none"> • Max. controlled axes (10 axes, spindle 2) • Simultaneously controlled axis (3 axes) • Inch/Metric conversion • Mirror image • Backlash compensation • Pitch error compensation • MDI operation • Program number search • Sequence number search • Dry run • Single block • JOG feed • Incremental feed (X1, X10, X100) • Jog and handle simultaneous mode • Manual handle feed (1 unit/each path) • Positioning-G00 • Linear interpolation • Circular interpolation • Dwell • Threading, synchronous cutting • Skip function-G31 • Reference position return-G28 • Reference position return check-G27 • 2nd reference position return • Rapid traverse rate (Max. ???m/min) • Rapid traverse override (F0,25,50,100%) • Feed per minute/Feed per revolution • Tangential speed constant control • Cutting feed rate damp • Automatic acceleration/deceleration | <ul style="list-style-type: none"> • Coordinate system shift • Direct input of coordinate system shift • Manual absolute on and off • G code system (A) • Sub program call (4 folds nested) • Canned cycles (G90, G92, G94) • Custom macro B • Chamfering/corner R • Auxiliary Function (M8-digit) • Spindle speed function (S5-digit) • Spindle speed output (S5-digit) • Constant surface speed control • 1st spindle orientation • Tool function (T4 digit) • Tool offset pairs (32 pairs) • Tool nose radius compensation (G40-G42) • Tool offset value counter input • Part program storage length 1Mb • Number of registerable program (1000) • Part program editing • Background editing • Status display • Clock function • Self-diagnosis function • Alarm display • Alarm history display • Operation history display • Help function • Servo setting screen • Language display English • Data protection key |



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CNC HORIZONTAL LATHE

HL-SERIES



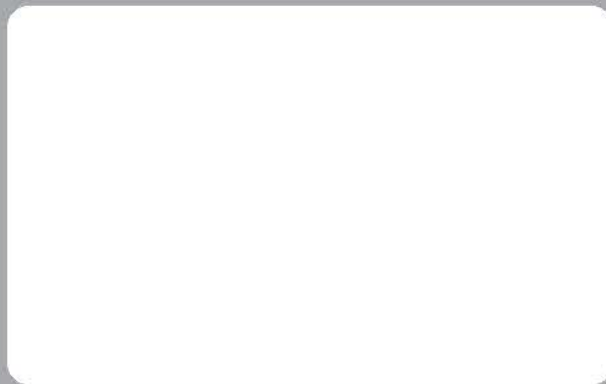
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韓國精密機械(株)
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HL-SERIES

HL-series is suitable to diverse types of workpieces such as wind mill shafts, large-sized ship engine crankshafts, propeller shaft, and rudder stock in various industries. This model has excellent machining capability covering precise and complicated to heavy cutting processes.



HNK MACHINE TOOL CO., LTD.



Capto Tool Holder



Special Turret



Steady Rests

CNC HORIZONTAL ROLL LATHE

HNK CNC Horizontal Roll Lathe type horizontal lathe applied to high power and torque is optimized for heavy cutting and high precision machining of roll profile. It has considerable rigidity and allows profiling and accurate roll finishing.



Specifications

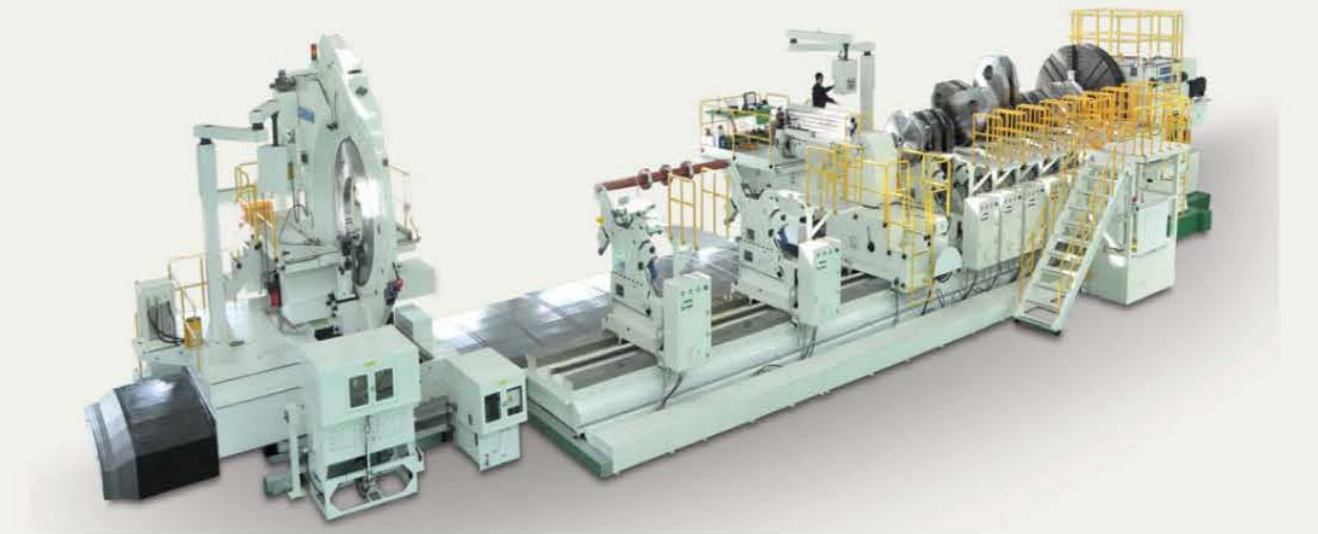
| ITEM | UNIT | HL-10R | HL-12R | HL-14R | HL-16R | HL-18R | HL-20R |
|--------------------------|------|---|--------------|--------------|--------------|--------------|--------------|
| Swing over carriage | mm | 1,000 | 1,200 | 1,400 | 1,600 | 1,800 | 2,000 |
| Distance between centers | mm | 3,000~10,000 | 3,000~10,000 | 4,000~10,000 | 4,000~10,000 | 4,000~10,000 | 4,000~10,000 |
| Spindle motor power | kW | 37~75 | 37~75 | 55~90 | 75~100 | 75~100 | 100~200 |
| CNC Control System | | Fanuc 31iB { Fanuc 30iB, Siemens 840D } | | | | | |

HEAD OPTION



HCL-SERIES

Crankshaft Lathe with one carriage and crankpin turning device with hydrostatic bearing. Machining of journals and crankpins of semi-built crank-shafts for marine diesel engines.



Specifications

| ITEM | UNIT | HCL-35 | HCL-41 | HCL-50 |
|---|------|--------------------------------------|---------|---------|
| Work piece diameter | mm | Ø 3,500 | Ø 4,100 | Ø 5,000 |
| Work piece length | mm | 10,000 | 14,000 | 17,000 |
| Max. workpiece weight (with 10 steady rest) | kg | 70,000 | 160,000 | 300,000 |
| Driving power | kW | 141 | 100+100 | 130+130 |
| CNC Controller system | | Fanuc 31iB (Fanuc 30iB, Siemen 840D) | | |

Specifications

| ITEM | UNIT | HL-A series | HL-B series | HL-C series | HL-D series | HL-E series | HL-F series |
|--------------------------|------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Swing over bed | mm | 1,400/1,800 | 1,400/1,800/2,000 | 2,000/2,500/3,000 | 2,500/3,000/3,500 | 3,000/3,500/4,000 | 3,500/4,000/4,500 |
| Distance between centers | mm | 4,000~20,000 | 4,000~20,000 | 4,000~20,000 | 6,000~20,000 | 6,000~20,000 | 6,000~20,000 |
| Max. workpiece weight | kg | 15,000~30,000 | 40,000~80,000 | 100,000~120,000 | 150,000 | 250,000 | 350,000 |
| Spindle motor power | kW | 55~110 | 75~150 | 110~220 | 140~300 | 170~300 | 200~400 |
| CNC Control System | | Fanuc 31iB { Fanuc 30iB, Siemens 840D } | | | | | |