FANUC 31iB

HL Series CNC Controler

Standard Specification

- Max. Controlled axes (2 axes)
- Simultaneously controlled axes (2 axes)
- Least input increment 0.001 min0.0001"
- 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
- Automatic acceleration/deceleration
- Optional block skip (1)
- Max. programmable dimension (8 - digit)
- Program number (04 - digit)
- Sequence number (N5 - 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 register able 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 clamp
- Ethernet Function
- Continuouss threading

Option Specification

- Increament system 1/10 (0.0001mm, 0.00001")
- Tool retract recover
- Manual linear/circular interpolation
- Optional block skip (9)
- Program restart
- Multiple repetitive cycle
- Workpiece coordinate system
- Addition of custom macro common variables (#100-#199-#500-#999)
- Tool offset pairs (200 pairs)
- Part program storage length (2/4/8 Mb)
- Number of regiterable programs (1000/2000)
- Graphic function
- Tool geometry / wear compensation
- External work piece number search 9999

HCL Series CNC Controler

Standard Specification

- 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 (1unit/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. 77m/min)
- Rapid traverse override (F0,25,50,100%)
- Feed per minute/Feed per revolution
- Tangential speed constant control
- Cutting feedrate clamp
- Automatic acceleration/deceleration
- 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 offser 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

Option Specification

- Increament system 1/10 (0.0001mm, 0.00001")
- Increment system 1/10 (0.0001mm, 0.00001)
- Tool retract recover
- Manual linear/circular interpolation
- Polar coordinate Interpolation
- Continuous threading
- Variable lead threading
- Circular threading
- G code system (B,C)
- Rapid traverse ball shaped acceleration /deceleration
- Linear acceleration/decelation before cutting feed interpolation
- Optional block skip (9)
- Program restart
- Interruption type custom macro
- Multiple repetitive cycle(G70~G76)
- Workpiece coordinate system
- Addition of custom macro common variables (#1000-#199-#500-#999)
- Conversational programming with graphic display
- Tool offset pairs (200/400 pairs)
- Tool life management function
- Automatic tool offset
- Direct input of tool offset value measured B
- Part program storage length(2/4/8 Mb)
- Number of registerable programs (1000/2000)
- Graphic function
- External workpiece number search 9999
- Handle interruption
- OPtional Axis (U2-axis)
- spindle tandem
- AI Contour Control 2
- Stored limit before move

HNK

SINCE 1960 韓國精密機械(株)
HNK MACHINE TOOL CO., LTD.

http://www.hnkkorea.com
e-mail : hnk@hnkkorea.com

HEAD OFFICE & FACTORY
83-1, Yunoe Gongdangil, Beobsoo-Myun,
Haman-Gun, Kyungnam, Korea
TEL) 82-70-7019-6500
FAX) 82-55-580-6699

U.S.A. BRANCH
1111 Plaza Drive #755,
Schaumburg, Illinois 60173, USA
TEL) 1-847-921-5551
FAX) 1-847-517-2925

NORTH AMERICAN IMPORTER
DYNAMIC INTL., INC.
N25 W23287 Paul Road
Pewaukee, WI 5307-4074
TEL) 1-262-521-1100
FAX) 1-262-574-0802

BEIJING OFFICE
Room 912, North Office Tower, Beijing New
World Center, No. 3B, Chongwenmenwai Street,
Beijing, China(100062)
TEL) 86-10-6708-5259 / 5260
FAX) 86-10-6708-5210

DISTRIBUTOR

Note : HNK reserves the right to change design and specification without notice

Printed in Korea April 2014

http://www.hnkkorea.com

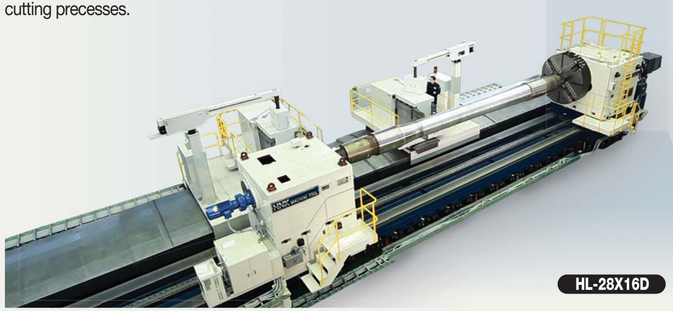
CNC HORIZONTAL LATHE

HL-SERIES

SINCE 1960 韓國精密機械(株)
HNK MACHINE TOOL CO., LTD.

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 pecise and complicated to heavy cutting precesses.



HL-28X16D

HL-21X6A

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}						

HL-25X19C

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.

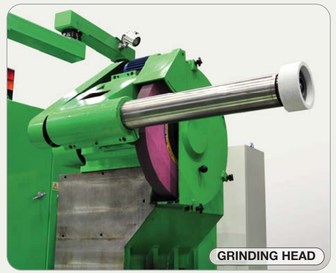
HL-16X7BR

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

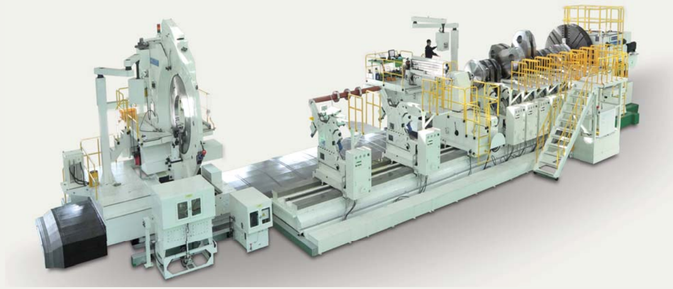
MILLING HEAD



GRINDING HEAD

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 Controler system	Fanuc 31iB {Fanuc 30iB, Siemen 840D}			