

## Precision Small CNC Lathe

# EBN-10EX

The functions and design are fully renewaled, contributing to the introduction of NC with high mobility Basic machine for the introduction of NC with stable accuracy and cost performance



## Response to making workpieces of wide range CNC control is FANUC 0i-TD,

The machine supports all kinds of turning, such as linear, taper, radius and threading.

## High speed highly accurate gang tooling

Gang tooling, traditional technology of EGURO is adopted. Revolving of tools for positioning is not necessory. This shortens idling time and assures highly accurate positioning, which are essential for the finish turning. Tool holders are common between NUCBOY-8EX CNC lathe and this model.

## Slide construction of distinctive features

X axis ball screw is connected to the servo motor directly, without gearbox. The construction is very simple. The machine keeps silent in operation and increases reliability. The X and Z ballscrews are in oil bath, fully considering the stability of turning dimentions.

## Functions as a conventional lathe

With the two options of 2 axes simultaneous feeding manual handle and rectangular swivel turret of manual operation, this machine can work as a conventional lathe.

### Handle run

Operator can move the tools forwards or backwards on the programmed trace freely by the manual pulse generator. The change to this mode from the automatic mode and back to it can be done freely, by which the interference of tools can be checked and measuring and cutting can also be done, bringing short time tool change.

## ■Compact design

The floor space needed is just 0.9m, which will contribute to to the effective introduction of NC lathes.

### ■ Machine specifications

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<b>I</b> tem				EBN-10EX
Capacity	Max, work to be turned		mm	φ50x50
	Swing over cross slide			100
	Swing over tool plate			50
	Chuck size			EDA-10
Collet	Max. dia.		mm	25.5
Spindle	Command			S4 digit
	Speed		min <sup>-1</sup>	500~4,000
Slide	Type of tooling			Linear turret
	Tool size		mm	□13, <i>ϕ</i> 20
	Travel	X axis	mm	200
		Z axis		150
	Rapid traverse	X axis	m/min	12
		Z axis		12
	Control system			Semiclosed loop
Motor	Spindle		kw	1.5 Inverter
	Coolant pump			_
	Lubrication pump			0.03
Power	Electricity		kVA	6.0 (3.4kw)
	Air		Мра	0.4
Machine height			mm	1,593
Center height			mm	1,045
Floor space (LxW)			mm	1,140x 770
Machine weight			kg	625
CNC control unit				FANUC System Oi-TD

## Numerical control unit

Numerical control unit				
ltem	NUCBOY-8EX			
Control unit	FANUC S. Oi-TD			
Axes controled	2( X, Z ) Simultaneous 2 axes			
Interpolation	Linear, Taper, Thread, Circular			
Program input	MDI, Tape (Tapereader: Option)			
Command	Incremental, Absolute			
Tape code	EIA/ISO (Tapereader: Option)			
Least input increment	X:0,001 (dia) Z:0,001			
Least command increment	X:0,0005 Z:0,001			
Max programable dimensions	±99999,999mm			
Feed radte	0.001~40.0000mm/rev.( 1~5,000mm/min,)			
Thread cutting	0.0001~40.000mm			
Tool offset memory (64 pairs)	±999.999mm			
Dwell	0~9999.999 sec.			
Backlash compensation	0~0.255mm			
Manual handle feed rate	0.1/0.01/0.001mm			
Tape memory	1280m			
Auxiliary function	M2 digit , S 4 digit, T2 digit			
Canned cycle	O.D.(G90) Thread (G92) Face (G94)			
Reference point return	Manual, Auto. (G27, G28)			
Display	8.4 inch liquid crystal			
Others	Chamfer and Corner R, Geometry offset			
	Work time and work piece display,			
	Constant surface speed control			
	Program number search, Sequence number search			
	Circular interpolation specifying arc R, Single block,			
	Overtravel, Block delete, Optional stop			
	Feed hold, Emergency stop			
	Custom macro B, Toolnose radius compensation,			
	Multiple repetitive cycle			

## ■Standard accessories

· Tool holder

- · Automatic lubricator · Collet blank
  - · Tool holder plate
- · Tool holder plate Door interlock
- · Double ended spanner · Driver
- · Compact flash card 128MB
- · Tool holder
  - · Tool box

  - · Hex key spanner
  - Machine base pad

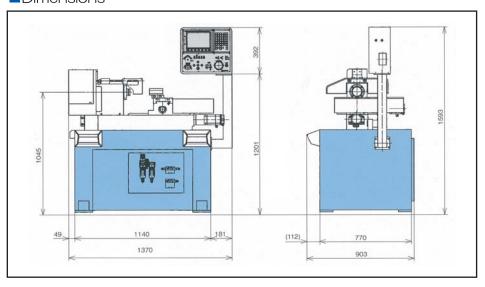
## Optional specifications

- $\cdot$  Air blower  $\cdot$  Oil mist coolant device  $\cdot$  Automatic chuck open/close device
- · Work light · Coolant device ( with tank separate from the machine )
- · Various kinds of expanding chucks · RS232C interface with AC100V socket
- · Various kinds of collets · X, Z simultaneous feed manual handle
- · Simple cover

## Optional specifications



## Dimensions



# EGURO

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