



SINCE 1978

Latest technology **I**nternationalized products **C**ompleted service **O**verall reliability

領先的技術 · 優良的品牌 · 完整的服務 · 全程的信賴

利高機械
LICO MACHINERY



利高機械工業股份有限公司
LICO MACHINERY CO., LTD.



感謝各位多年來的支持與愛護！

利高機械公司自1978年成立，一直是以生產CNC電腦車床及CAM凸輪式自動車床為主，至今我們已多次獲得「台灣精品獎」以及國家級創新研發獎，而且我們的銷售亦遍佈世界五十餘國，廣受各界好評。

我們秉持「品質至上·永續經營」的理念，不斷的提昇技術及服務品質，提供最佳的售前加工方案及完善的售後服務，更可依客戶需求訂製完全加工之整廠設備，進而為客戶創造最佳利潤，利高的用心，絕對讓您滿意。

Portrait

LICO Machinery Co., Ltd., established in 1978 under the leadership of president Mr. Hank Lin, is well known for manufacturing turning machines ranging from industrial cam operated single spindle automatic lathes to technical CNC turning centers. These machines are designed for the metalworking sector and have been adapted by various industries such as aviation, vehicles, computers, plumbing fittings, optical instruments and others. Today, LICO lathes become popular across the world thanks to in-house staff and satellite-contractors working in harmony with the management board.



ISO 9000

HANK LIN
PRESIDENT



利高機械 · 遍佈全球！
LICO MACHINE, ACROSS THE WORLD!

LNC SERIES

CNC AUTOMATIC LATHE : LNC42/LNC65

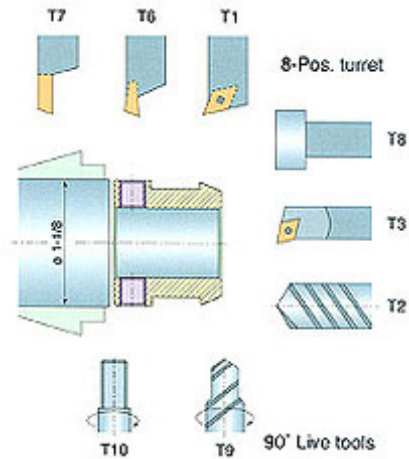
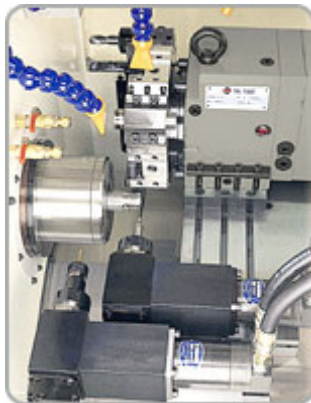
LNC SERIES

CNC AUTOMATIC LATHE : LNC42/LNC65

Gang Tooling as Standard, Options With Turret & Rotary Tools



- *Best value and most versatile machine available for all production shops.
- *Optional hydraulic live tools, Both facing and crossing, Allows secondary combined with 48-position spindle indexing or C-axis. Good for various secondary operation.
- *Can be used as a gang tool machine or an optional 8-position turret.
- *Use of an optional bar feeder for unattended high volume production.



Live tool

Hydraulic live tool with the spindle 48 dividing system and C-axis function can make secondary operation on the machine.

LNC SERIES

CNC AUTOMATIC LATHE : LNC42/LNC65



Live tool

Hydraulic live tool with the spindle 48 dividing system and C-axis function can make secondary operation on the machine.

High speed, high precision indexing turret

The 8-position tool turret ensures high repeated positioning accuracy and rigidity. Rapid indexing time from 0.15 sec. to 1.2 sec, The tool disc has a built-in coolant nozzle that is directed straight to the tool tips.



Z-axis box beam

Insures high rigidity. TURCITE coating allows for smooth and precise movements. Telescopic cover protect the ballscrew.



The dovetail X-axis slide

permits mounting of gang tools (sub plate also available) and or hydraulic tooling spindle as well as an 8-position turret with thru coolant.



Standard controller

Either "MITSUBISHI" M64SL or "SIEMENS" 802D or FANUC OiMATE controller.

3-Jaw hydraulic chuck

This machine is equipped with a Ø6" or Ø8" 3-jaw hydraulic hollow chuck. For enlarge workpiece machine.



Wiring is enclosed

in a cabinet and a standard heat exchanger ensures cooler temperature for the electronic components.



Gang type tools

LNC SERIES

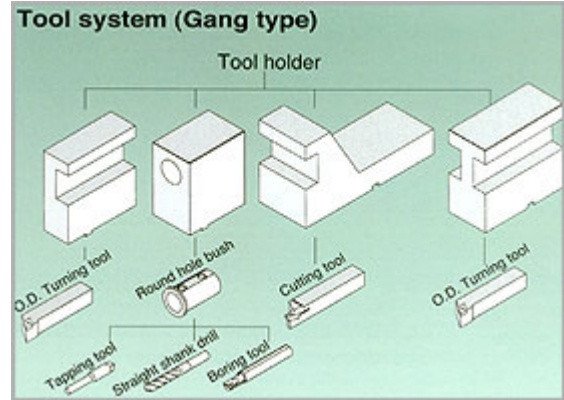
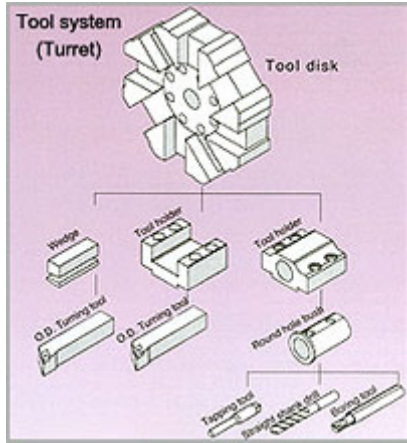
CNC AUTOMATIC LATHE : LNC42/LNC65

Technical Data:

Model	LNC42	LNC65
Unit	Metric(Inch)	Metric(Inch)
CAPACITIES		
Collet bar capacity, dia(through bore)	Ø42 (1.65", 1 5/8")	Ø65 (2.56", 2 9/16")
Swing over bed	Ø260 (Ø10.2")	
Swing over alide	Ø150 (Ø5.9")	
Max. turning diameter.(3-jaw power chuck)	Ø165 (Ø6.5")	Ø210 (Ø8.3")
Max. turning length	205(8")	
(Turret type)	3-jaw power chuck	165(6.5")
Max. turning length	280(11")	
(Gang type)	3-jaw power chuck	240(9.5")
SPINDLE		
Height of spindle center (approx.)	1030(40.55")	
Spindle nose	ISO A2-5	ISO A2-6
Collet chuck type	F48(Ø42)	F72(Ø65)
Power chuck reception	6"	
Spindle/ draw bar through bore	Ø53(Ø2.09") /Ø43(Ø1.69")	Ø78(Ø.07") /Ø66(Ø2.6")
SPINDLE DRIVE		
Motor power cont.(Mitaubishi/Siemens)	7.5/10kw (10/13.4HP)	
Max. spindle speed	5000rpm	4000rpm
SLIDE		
Longitudinal slide travel(Z-axis)	300(11.8")	
Cross slide travel(X-axis)	300(11.8")	
Resolution	0.001(0.0001")	
TOOL TURRET		
Number of tool positions	8	
Turning tool section	┘20 (┘3/4")	
Boring tool reception	Ø25 (Ø1")	
Indexing	0.35	
SERVO MOTORS		
Working feeds, X axis and Z	0~10000 mm/min (0~394 in./min)	
Rapid traverses, X axis and Z	15 M/min (590in.min)	
Feed force, X-axis and Z (Mitsubishi/Siemens)	5Nm(1.0kw/ 1.4kw)/3.68lb-ft(1.334 HP/ 1.87 HP)	
MACHINE SPACE, WELGHT and POWER REQUIREMENTS		
Overall dimension (LxWxH)	2000x1500x1700(78.7"x59.1"x66.9")(1800 Siemens)	
Approx. net weights of machine with electrical. cabinet(G.W.)	1850 kg(4070 lbs)	1950 kg(4290 lbs)
Machine weight	2200 kg(4840 lbs)	2300 kg(5060 lbs)
Packing size	7.5m3 (24.6ft3)	
Hydraulic tank capacity	30 L (0.79 gal.)	
Hydraulic tank capacity(Rotary tool)	40 L (1.05 gal.)	
Hydraulic pump motor	0.75kw (1 HP)	
Hydraulic pump motor(Rotary tool)	3.75kw (5 HP)	
Coolant tank capacity	150 L (3.96 gal.)	
Coolant pump motor	0.375 kw (0.5 HP)	
Lubrication capacity	2 L, 10c.c./10min	

LNC SERIES

CNC AUTOMATIC LATHE : LNC42/LNC65



"MITSUBISHI" M64 CNC controller standard functions:

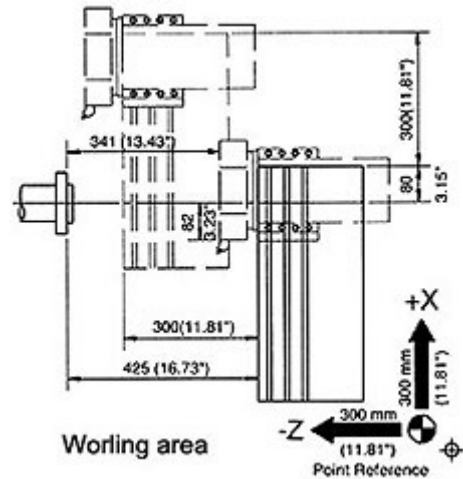
- * Part program storage length 600M
- * Graphic trace of tool path
- * Multiple canned cycles
- * Automatic chamfering & corner rounding
- * Simultaneously controllable 2 axes
- * Tool offset memory 80 sets
- * Tool life management
- * Constant surface speed control
- * Oriented spindle stop

Standard Equipment:

1. Collet chuck LNC42 F48 (Max. Ø42)
2. Collet chuck LNC65 F72 (Max. Ø65)
3. Hydraulic system
4. Coolant system
5. Automatic lubrication system
6. Work lamp
7. Front door safety interlock
8. Tool box and tool kits
9. Control cabinet heat exchanger
10. Air jet system
11. Spindle dividing system (48 pos.)
12. Foot pedal for collet & chuck open/close
13. Standard tool holders

Optional Accessories:

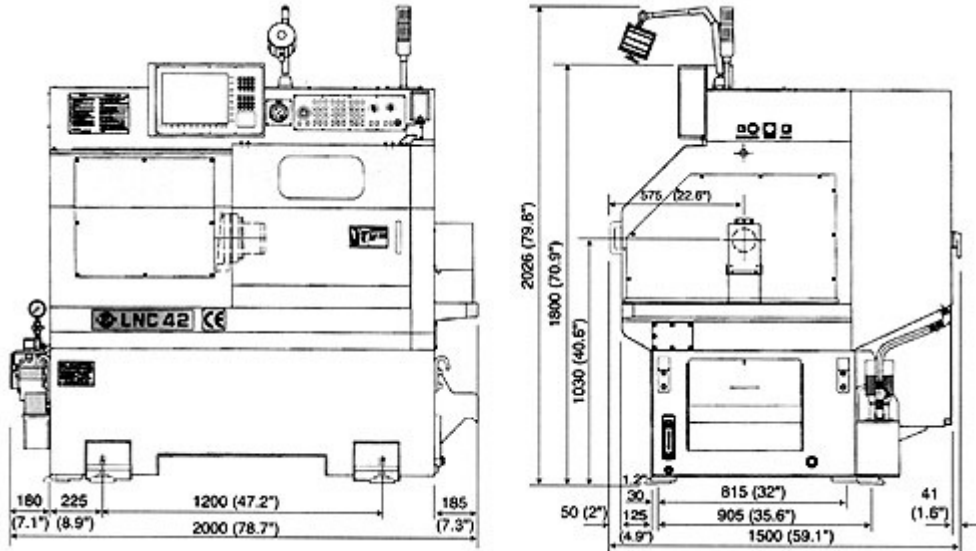
1. 6" hollow power chuck (LNC42)
2. 8" hollow power chuck (LNC65)
3. Chip conveyor with cart
4. Parts catcher
5. Extra tool holders
6. Automatic bar feeder
7. Tool turret 8 stations
8. Bar feeder live tool with hydraulic system
10. Sub plate ass'y
11. Door interlock(CE)



LNC SERIES

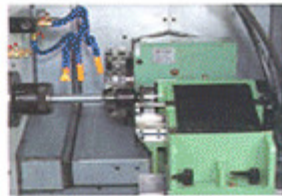
CNC AUTOMATIC LATHE : LNC42/LNC65

Dimensions:



公司沿革 Company Profile

- | | |
|---|--|
| 1978 利高機械工業股份有限公司正式在九月三日於桃園成立。 | 1978 LICO machinery co. was founded on Sep. 3, in Taoyuan by Hank Lin, Ray Cheng, Vic Lin, Knoll Chiu and other partners. |
| 1981 首次外銷單軸自動車床至美國及日本。 | 1981 LICO first exported single spindle automatic lathe to America and Japan. |
| 1984 利高機械首次參加馬來西亞機械展，積極拓展東南亞業務市場。 | 1984 LICO attended Mex 1984 machine show at Kuala Lumpur, Malaysia, and set-up a sales net in the South-East Asian market. |
| 1990 成立利根機械於潭子加工區。
成立美國利寶高公司，除銷售原有設備外，並銷售汽車零件以服務美國市場。
研發CNC多滑軌自動車床。 | 1990 LICO invested and set-up a new company in the Tai-Chung Export Processing Zone (Taiwan)--Likon Machinery Co., Ltd. LICO invested and set-up a new company with LIPO in Texas, U.S.A. --Lipoco Enterprises Inc. to produce automobile parts and sales for the American market.
LICO started to develop CNC machines, the first project was the "CNC Multi-Slide Automatic Bar Machine". |
| 1993 LNT-42 CNC 多滑座自動車床，榮獲第一屆「台灣精品獎」，並取得台灣、大陸、德國等專利。 | 1993 LICO developed multi-slide LNT-42 CNC Lathe and got the prize of "It's Very Well Made In Taiwan" No.1. Got the patent from Taiwan, Mainland China and Germany. |
| 1994 利高公司發展LA32H自動車床榮獲第二屆「台灣精品獎」。 | 1994 LICO developed LA32H Cam Automatic Lathe and got the prize of "It's Very Well Made In Taiwan" No.2. |
| 1996 利高公司取得ISO-9000國際品保認證。 | 1996 LICO was passed the international quality assurance licence of ISO- 9000. |
| 1999 利高公司發展複合加工多功能CNC車床，榮獲第八屆「台灣精品獎」。 | 1999 LICO Developed functional complex CNC lathe and got the prize of "It's Very Well Made In Taiwan" No.8. |
| 2001 利高公司經英國Amtriveritas取得CE認證，編號9002。 | 2001 The CE Mark approved by Amtriveritas in the UK. |
| 2002 LNE42複合加工CNC車銑加工機，榮獲第九屆國家級創新研發獎。 | 2002 LNE42 awarded the prize of "Innovative Research Award of SMEs" hosted by Taiwan Ministry of Economic Bureau. |
| 2004 利高開發LNT鍛胚自動送料，完全加工機。 | 2004 LICO developed LNT forged blank with automatic loading complete machining machine. |
| 2005 利高開發LNC-D自動棒材送料，有十二位複合加工及副主軸背面加工之CNC自動車床。 | 2005 LICO developed LNC-D automatic bar feeding with 12-position live tools and sub-spindle back machining CNC automatics. |
| 2006 利高開發CNA36P小型低成本之主軸移動式CNC車床，適用於長軸加工、不銹鋼球閥心軸銜Y銑、手工具之多邊車削成形。 | 2006 LICO developed compact, affordable head stock sliding CNC automatic lathe for long shaft machining, stainless steel ball valve stem with Y-mill and hand tools with polygonal turning. |



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