



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!

TA/TLA/LA SERIES

Single Spindle Automatic Lathe

TATLA/LA SERIES

Single Spindle Automatic Lathe

The single spindle automatic lathe model TA, TLA and LA, are used for the manufacture of a great variety of simple, bolts, screws, nuts, sleeves, ...etc., all kinds of materials such as steel, brass, aluminum etc. can be machined on automatic lathes.

The model LA25, can machine round and profiled bars up to a max. diameter of 25mm(1"), TA25 having the same range of application. The models LA32(H) and TA32(H) have a spindle capacity of 32mm(1-1/4") with hydraulic stock chucking, bar material up to dia. 32 mm can machined. TA16 is for small material stock up to 16mm(5/8") and high speed turned parts.

For secondary operation of pre-machined parts, the automatics can be equipped with a magazine feed attachment or a hand chucking device if only small volume are involved.

The working scope of the basic machine can be extended considerably by the application of the various attachments.



TA16/ TA25/ TA32(H)
TLA16/ TLA25/ TLA32(H)



LA25/ LA32(H)

FEATURES:

*Max. collet capacity: 25mm round for LA 25/TLA 25/TA25, 32mm round for oversized LA32(H)/TLA(H)/TA 32(H) machines and 16mm round for

TA16/TLA 16

*Spindle speed:

LA25/ TLA25	150 to 4,200 rpm by 40 steps
LA32/ TLA32	150 to 4,200 rpm by 32 steps
LA32(H)/ TLA32(H)	210 to 2,300 rpm by 28 steps
TA16	700 to 7,500 rpm by 20 steps
TLA16	200 to 6,000 rpm by 40 steps
TA25	550 to 4,200 rpm by 12 steps
TA32(H)	300 to 2,700 rpm by 12steps

*Cross slide with toolholders, front and rear

*Double vertical slide with toolholders

*Tailstock with A-3 collet quill, draw bar and spring retraction

*Weight operated bar feed

*Adjustable swing stop

*Change gears set for feeds

*Automatic electrical shut off feed driven clutch and bar feed

*Cam setting dial

*Transparent coolant splash guard, front and rear

*Waterproof sealed fluorescent work lamp

*Oil resisting timing belt drive, speed counter for Mod. TLA16 / LA25 / TLA25 and LA 32(H) / TLA32(H), good for drilling, reaming and threading operations during a working cycle.

*(H) models, the spindles are designed with hydraulic chucking system, and the mechanical chuck levers are not required.

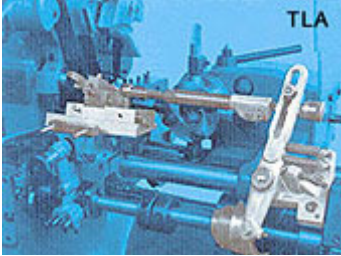
*Available with or without the following special attachments: longitudinal turning, two-position air operated tailstock, four-position mechanical turret, thread/polygonal milling, gravity silent bar feed ect.

*Standard type A15 / 25 TRAUB cams and tooling can be used and interchanged.

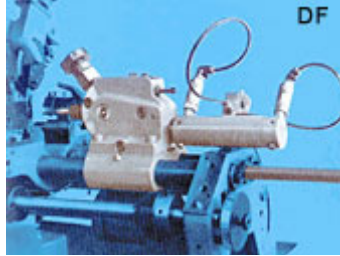
TAT/LA SERIES

Single Spindle Automatic Lathe

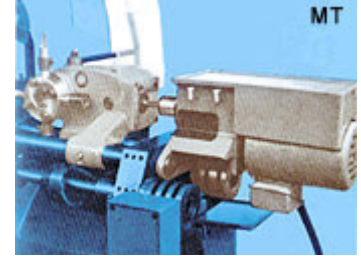
SPECIAL ATTACHMENTS



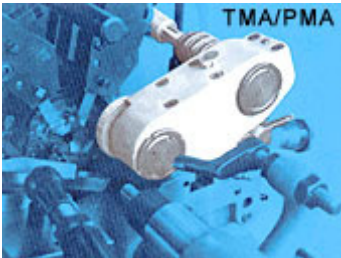
TLA
Longitudinal Turning ATT. (25225000 Front/ 25228000 Rear)
Max. travel of turning. Slide: 70 mm
Max. angle of taper. Turning: ±15°



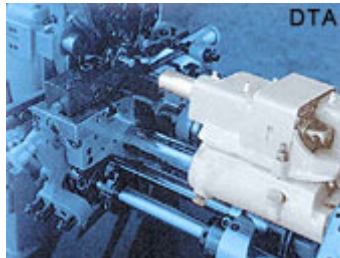
DF
2-Position Tailstock(25230000)
Max. travel: 70 mm
Max. tapping capacity: M20 x 1.5P (Brass)
Max. thread capacity: M16 x 1.5P(38 die OD)



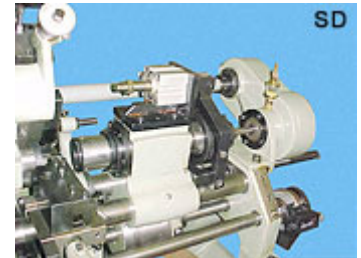
MT
4-Position Mech. Turret(25300000)
Max. travel: 50 mm
Max. tapping capacity: M20 x 1.5P (Brass)
Max. thread capacity: M12 x 1.5P(25 die OD)



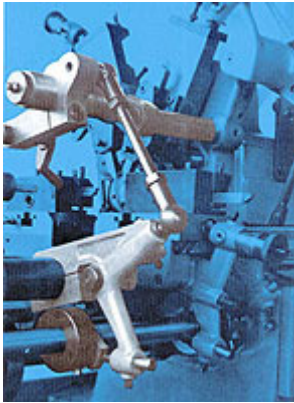
TMA/PMA
Thread Milling ATT. (25290000)
Polygonal Milling ATT. (25296000)
Max. length of thread: 22mm
Max. pitch of thread: 2mm
Max. speed of main spindle: 4,000rpm



DTA
Drilling and Threading Attachment(25.20000)
Max. drilling depth: Max. 35mm
External thread: M3~M10 x 30mm
Internal thread: M3~M10 x 2.5mm
Moter: 1HP 2/4P 1700/3400 rpm



SD
Synchronized Drive(25410000)
Collet capacity: 16mm(5/8")
Ideal for slim bar components
Burr-less attachment for pi-p-free



Overhead Swing Stop(25182000)
Applied for some special set up when a standard stop is not applicable.



MACHINING SAMPLES

TATLA/LA SERIES

Single Spindle Automatic Lathe

Technical Data:

Model		TA 16	TA 25	TA 32(H)
Maximum capacity	round	16mm(5/8")	25mm(1")	32mm(1 1/4")
	hexagon	13mm(1/2")	22mm(7/8")	27mm(1 1/16")
	square	11mm(7/16")	18mm(23/32")	22mm(7/8")
Maximum turning length(LTA)		70mm (2-3/4")		
Stroke of cross slide		*22mm (7/8")		
Max. capacity of tailstock collet		13mm(1/2")		
Max. tailstock travel		100mm(4")		
Spindle speed		700-7,500 rpm (20 steps)	550-4,200 rpm (12 steps)	300-2,750 rpm (12 steps)
Production rate		28 to 2,100 pcs / hr		
Cycle time		1.71 sec/pc to 128.6 sec/pc		
Power rating	work spindle motor	1.5/1.8 kw (2.0/2.4 Hp)		1.8/2.2kw(2.4/2.9 Hp)
	feed drive motor	0.37 kw (1/2 Hp)		
	coolant pump motor	0.1 kw (1/8 Hp)		
Content of coolant tank		40 Liters		
Net weight of complete machine		660 kgs		760 ksq
Gross weight of complete machine		800 kgs		900 kgs
Measurement of seaworthy packing case		1.8 Cu. M		2.4 Cu. M

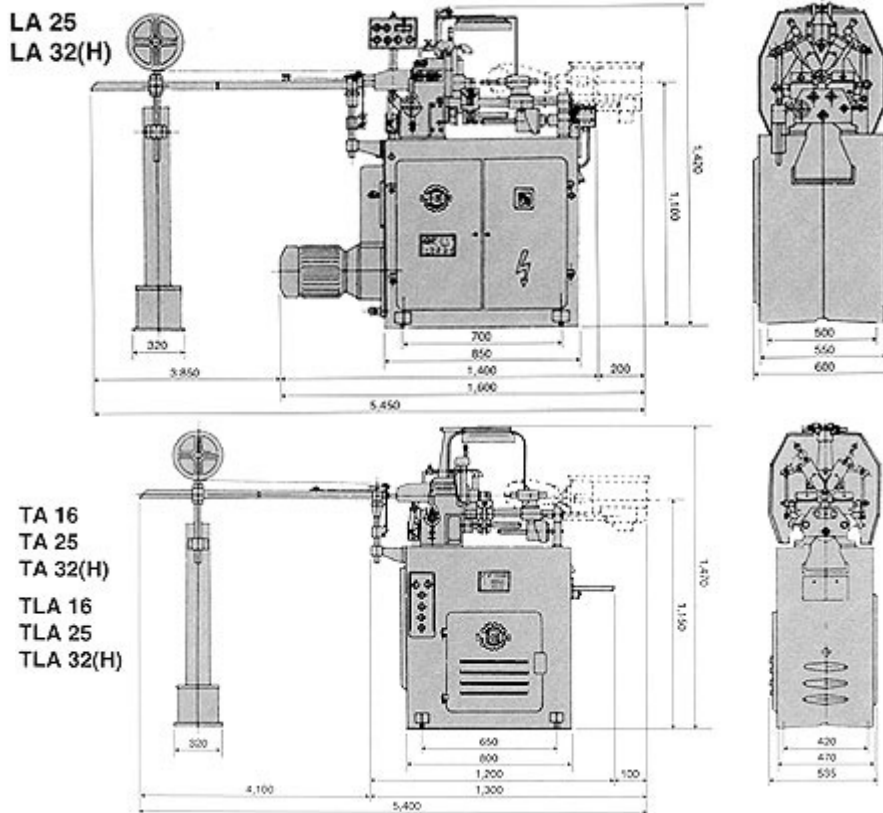
Model		TLA 16	TLA 25	TLA 32(H)
Maximum capacity	round	16mm(5/8")	25mm(1")	32mm(1 1/4")
	hexagon	13mm(1/2")	22mm(7/8")	27mm(1 1/16")
	square	11mm(7/16")	18mm(23/32")	22mm(7/8")
Maximum turning length(LTA)		70mm (2-3/4")		
Stroke of cross slide		*22mm (7/8")		
Max. capacity of tailstock collet		13mm(1/2")		
Max. tailstock travel		100mm(4")		
Spindle speed		200-6,000 rpm (40 steps)	150-4,200 rpm (40 steps)	150-2,200 rpm 210-2,300 rpm(H)
Production rate		28 to 2,100 pcs / hr		
Cycle time		1.71 sec/pc to 128.6 sec/pc		
Power rating	work spindle motor	2.6/0.65 kw (3.5/0.9 Hp)		
	feed drive motor	0.37 kw (1/2 Hp)		
	coolant pump motor	0.1 kw (1/8 Hp)		
Content of coolant tank		40 Liters		
Net weight of complete machine		660 kgs		760 ksq
Gross weight of complete machine		800 kgs		900 kgs

TAT/LA/LA SERIES

Single Spindle Automatic Lathe

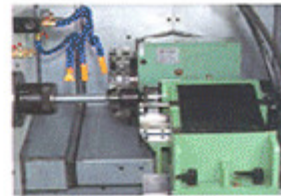
Model		TA25	TA32(H)
Maximum capacity	round	25mm(1")	32mm(1 1/4")
	hexagon	22mm(7/8")	27mm(1 1/16")
	square	18mm(23/32")	22mm(7/8")
Maximum turning length(LTA)		70mm (2-3/4")	
Stroke of cross slide		*22mm (7/8")	
Max. capacity of tailstock collet		13mm(1/2")	
Max. tailstock travel		100mm(4")	
Spindle speed		150-4,200 rpm	150-4,200 rpm
		210-2,300 rpm(H)	210-2,300 rpm(H)
Production rate		28 to 2,100 pcs / hr	
Cycle time		1.71 sec/pc to 128.6 sec/pc	
Power rating	work spindle motor	2.6/0.65 kw (3.5/0.9 Hp)	
	feed drive motor	0.37 kw (1/2 Hp)	
	coolant pump motor	0.1 kw (1/8 Hp)	
Content of coolant tank		40 Liters	
Net weight of complete machine		860 kgs	960 kgs
Gross weight of complete machine		1,000 kgs	1,100 kgs

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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