More

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TAKISAWA®
TAIWAN

Distributor

2017.01

LA-250YS
250YT

TAKISAWA®
TAIWAN

SUPERIOR FOR MULTIPLE AXIS TURNING

CNC LATHE

LA

250YS/250YT

LA-250YS

NEW ! Next Generation ! Fully evolved CNC lathe.

[Previous generation : EX-910]

1. Precisely aligned spindles with speed synchronisation to automate rapid parts transfer between spindles for complex machining.
2. Servo turret upgrade from T12 to T15 and every turret position can be fitted with a driven tool for machining flexibility. (Spec. UP)
3. Servo motor specification upgrade: Maximum motor torque has been increased by 51%. (Effect UP)

Specifications

Max. swing	600 mm
Max. turning length	737 mm
Max. turning diameter	370 mm
Spindle/Sub spindle Max. bar work capacity	75/52 mm
Spindle/Sub spindle speed	3500 rpm
Chuck size	10"

※ Specifications are subject to change without notice.

Spec. UP — Internal use of stainless steel sheet , texture upgrade !

Spindle through hole Dia. : 102mm

Z axis motor Max. thrust : 3919kgf

Spec. UP — Next generation of type !!!

Spec. UP — Next generation of type, Z axis travel upgrade !!!

Spec. UP — Next generation of type, X axis travel upgrade !!!

Effect UP — Next generation of type upgrade 51% !

TWIN SPINDLES

Travel & Feedrate

X axis travel	270 mm
X axis rapid traverse rate	20 m/min
Z axis travel	800 mm
Z axis rapid traverse rate	20 m/min
Y axis travel	+65-50 mm
Y axis rapid traverse rate	10 m/min
B axis travel	735 mm
B axis rapid traverse rate	20 m/min

※ Specifications are subject to change without notice.

LA-250YT

SERVO TAILSTOCK

The LA-250YT has a servo driven tailstock with clamp to ensure rigidity in every position in its travelling range, so ensuring the most accurate machining for all but especially long workpieces.

Specifications

Max. swing	600 mm
Max. turning length	737 mm
Max. turning diameter	370 mm
Max. bar work capacity	75(81) mm
Spindle speed	3500 rpm
Chuck size	10”

※ Specifications are subject to change without notice.

Spindle output diagram

Powered by FANUC MOTOR for high stability & high accuracy.

LA-250YS/LA-250YT | 250S/6000 15/22kW

LA-250YS | 170S/6000 7.5/11kW

Power chart of milling tool

LA-250YS/LA-250YT | αil3/10000

LA

250YS/250YT

T15 turret

Working range | Interference diagram

LA

250YS/250YT

LA-250YS Working Range

LA-250YT Working Range

LA-250YS Interference Diagram (T15)

LA-250YT Interference Diagram (T15)

LA

250YS/250YT

Tooling system

LA-250YS

LA-250YT

Machine dimensions

Unit : mm

LA

250YS/250YT

Specifications

Item	Unit	LA-250YS	LA-250YT
Capacity			
Max. swing	mm	600	600
Std. turning diameter	mm	315(T12) / 242(T15)	315(T12) / 242(T15)
Max. turning diameter	mm	370	370
Max. turning length	mm	737	737
Between centers	mm	1095	---
Travel			
X axis travel	mm	270	270
Z axis travel	mm	800	800
Y axis travel	mm	+65-50	+65-50
B axis travel	mm	735	---
Spindle			
Spindle speed	rpm	3500	3500
Chuck size		10”	10”
Spindle nose		A2-8	A2-8
Max. bar work capacity	mm	75	75(81)
Through hole diameter	mm	102	102
Bearing diameter	mm	140	140
Sub-spindle			
Spindle speed	rpm	3500	---
Chuck size		8”	---
Spindle nose		A2-6	---
Max. bar work capacity	mm	52	---
Through hole diameter	mm	76	---
Bearing diameter	mm	110	---
Tailstock			
Tailstock travel	mm	---	743
Taper hole of tailstock spindle		---	MT.5

※ Specifications are subject to change without notice.

Standard and optional accessories

Standard accessories

1.Built in spindle motor
2.Hydraulic servo turret
3.Hanger (2PCS)
4.Leveling pad
5.Wedges
6.Working lamp
7.Tool box
8.Operation manual
9.Hydraulic chuck
10.Foot switch

Optional accessories

1.Chip conveyor & chip cart
2.Tool setter
3.Parts catcher
4.Parts conveyor
5.Barfeeder & Interface
6.Air blow
7.Automatic Power-off
8.Parts counter
9.Collet chuck
10.Oil mist collector

Item	Unit	LA-250YS	LA-250YT
Turret			
Number of tools		T15(T12)	T15(T12)
Turning tool shank	mm	25(32)	25(32)
Boring bar shank diameter	mm	40(50)	40(50)
Milling tool shank diameter	mm	20(26)	20(26)
Feedrate			
X axis rapid traverse rate	m/min	20	20
Z axis rapid traverse rate	m/min	20	20
Y axis rapid traverse rate	m/min	10	10
B axis rapid traverse rate	m/min	20	---
Tailstock rapid traverse rate	m/min	---	20
Motor			
Spindle drive motor	kW	15/22	15/22
Sub-spindle drive motor	kW	7.5/11	---
Milling motor	kW	3.7/5.5/7.5	3.7/5.5/7.5
Turret index motor	kW	1.2	1.2
X axis drive motor	kW	3	3
Z axis drive motor	kW	3	3
Y axis drive motor	kW	3	3
B axis drive motor	kW	2.5	---
Tailstock drive motor	kW	---	2.5
Size			
Width	mm	3533	3533
Height	mm	2247	2247
Depth	mm	1965	1965
Weight	kg	8000	8000

Remark1 : ( ) Option

※ Specifications are subject to change without notice.

Parts conveyor

Parts catcher

Tool setter

NC unit specifications

LA

250YS/250YT

Composition

☆ : Standard ◎ : Optional ⊕ : Special --- : N/A △ : Parameter setting is required

Specifications / Contents	LA-250YS	LA-250YT
NC Unit		
8.4" Color LCD	---	---
10.4" Color LCD	☆	☆
Safety device		
Front door interlock	◎	◎
Front door locking mechanism	◎	◎
Safety relay	◎	◎
Control panel breaker with tripper	◎	◎

Main function list

☆ : Standard ◎ : Optional ⊕ : Special --- : N/A △ : Parameter setting is required

Specifications / Contents	LA-250YS	LA-250YS
Controlled axes		
Least input increment	☆	☆
Maximum programmable dimension(±999999.999)	☆	☆
Least Input increment C	◎	◎
Inch/metric selection	☆	☆
Interlock	☆	☆
Machine lock	◎	◎
Emergency stop	☆	☆
Stored stroke check 1	☆	☆
Stored stroke check 2,3	◎	◎
Stroke limit check before movement	◎	◎
Chuck tailstock barrier	◎	◎
Mirror image (each axis)	◎	◎
Chamfering ON/OFF	☆	☆
Overload detection	☆	☆
Position switch	◎	☆
Operation		
Auto run (memory)	☆	☆
MDI run	☆	☆
DNC run	◎	◎
DNC run with memory card	☆	☆
Program number search	☆	☆
Sequence number search	☆	☆
Sequence number collation and stop	◎	◎
Wrong operation prevention	△	△
Buffer register	☆	☆
Dry run	☆	☆
Single block	☆	☆
Jog feed	☆	☆
Manual reference point return	☆	☆
Dogless reference point setting	☆	☆
Manual handle feed, 1 unit	☆	☆

※ Specifications are subject to change without notice.

Specifications / Contents	LA-250YS	LA-250YT
Interpolating functions		
Poitioning (G00)	☆	☆
Exact stop mode (G61)	☆	☆
Tapping mode (G63)	☆	☆
Cutting mode (G64)	☆	☆
Exact stop (G09)	☆	☆
Linear interpolation (G01)	☆	☆
Circular interpolation (G02/03)	☆	☆
Dwell (G04)	☆	☆
Polar coordinate interpolation	☆	☆
Cylindrical interpolation	☆	☆
Thread cutting	☆	☆
Multiple thread cutting	☆	☆
Thread cutting cycle and retraction	☆	☆
Continuous thread cutting	☆	☆
Variable lead thread cutting	☆	☆
Reference point return (G28)	☆	☆
Reference point return check (G27)	☆	☆
2nd reference point return (G30)	☆	☆
3rd, 4th reference point return	◎	◎
Feed function		
Rapid traverse override (F0,25%,50%,100%)	☆	☆
Feed per minute	☆	☆
Feed per revolution	☆	☆
Constant tangential speed control	☆	☆
Cutting feedrate clamp	☆	☆
Automatic acceleration/deceleration	☆	☆
Rapid traverse bell-shaped accel/decel	☆	☆
Linear accel/decel after feedrate interpolation	☆	☆
Feedrate override (15 steps)	☆	☆
Jog override (15 steps)	☆	☆
Override cancel	☆	☆
Manual feed per revolution	△	△
Program input		
Tape code (EIA/ISO auto recognition)	☆	☆
Label skip	☆	☆
Parity check	☆	☆
Control in/out	☆	☆
Optional block skip, 1 piece	☆	☆
Optional block skip (2 to 9 pieces)	⊕	⊕
Program number O4 digits	☆	☆
Program file name 32 characters	☆	☆
Sequence number N5 digits	---	---

NC unit specifications

LA

250YS/250YT

Main function list

☆ : Standard ◎ : Optional ⊕ : Special --- : N/A △ : Parameter setting is required

Specifications / Contents	LA-250YS	LA-250YT
Program input		
Sequence number N8 digits	☆	☆
Absolute/incremental command	☆	☆
Decimal point input/Pocket calculator type decimal point input	☆	☆
diameter /radius programming (X-axis)	☆	☆
Auto coordinate /Coordinate system setting(G50)	☆	☆
Drawing dimension direct input	☆	☆
G-code system A	☆	☆
G-code system B/C	◎	◎
Chamfering/Corner R programming	☆	☆
Programmable data input	☆	☆
Sub program call (10 levels)	☆	☆
Custom macro	☆	☆
Additional custom macro common variables	◎	◎
Single canned cycle	☆	☆
Combined canned cycle I/II	☆	☆
Drilling canned cycle	☆	☆
Arc radius programming	☆	☆
Macro executor	◎	◎
Coordinate system shift/shift direct input	☆	☆
Miscellaneous function/spindle functions		
M function (M3 digits)	☆	☆
Second miscellaneous function (B function)	⊕	◎
Spindle functions (S4 digits)	☆	☆
Constant surface speed control	☆	☆
Spindle orientation	☆	☆
Rigid tap (spindle center) /(rotary tool)	☆	☆
Tool functions/tool offset functions		
T function (T2+2 digits)	☆	☆
Tool offsets, 64 pieces	☆	☆
Tool offsets, 99 pieces	◎	◎
Tool offsets, 200/400 pieces	◎	◎
Tool geometry size data, 100 pieces	◎	◎
Tool position offset	☆	☆
Tool diameter /nose R compensation	☆	☆
Tool geometry /wear compensation	☆	☆
Tool offset counter input	☆	☆
Tool offset measured value direct input	☆	☆
Tool offset measured value direct input B	◎	◎
Tool life management	◎	◎
Accuracy offset functions		
Backlash compensation/by rapid traverse/feedrate	☆	☆
Editing		

※ Specifications are subject to change without notice.

Specifications / Contents	LA-250YS	LA-250YT
Part program memory capacity 128Kbyte (320m)	---	---
Part program memory capacity 320Kbyte (800m)	---	---
Part program memory capacity 512Kbyte (1280m)	---	---
Part program memory capacity 1Mbyte/2Mbyte	☆/◎	☆/◎
Registrable programs, 63 programs	---	---
Registrable programs, 400 programs	---	---
Registrable programs, 1000 programs	☆	☆
Program editing/protection	☆	☆
Extended program editing	☆	☆
Background editing	☆	☆
Setting/display		
Status display	☆	☆
Clock function	☆	☆
Current position display	☆	☆
Program comment display (31 characters)	☆	☆
Parameter setting and display	☆	☆
Alarm display/Alarm log display	☆	☆
Operator/ operation message log display	☆	☆
Run hours and parts count display	☆	☆
Actual speed display	☆	☆
Actual spindle speed and T code display	☆	☆
Floppy cassette directory display	☆	☆
Grouped directory display and punching	☆	☆
Servo adjustment screen	☆	☆
Maintenance information screen	☆	☆
Data protection key, 1 kind	☆	☆
Help function	☆	☆
Self diagnostic function	☆	☆
Scheduled maintenance screen	☆	☆
Hardware & software system configuration display	☆	☆
Graphic display	☆	☆
Dynamic graphic display	◎	◎
Display languages		
English	☆	☆
Japanese (Kanji))	△	△
Other language	△	△
Display language dynamic switching	☆	☆
Data I/O		
RS-232C interface for 1 ch	☆	☆
Fast data server	⊕	⊕
External message	☆	☆
External workpiece number search	◎	◎
Memory card I/O	☆	☆