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2021.5

TAKISAWA TAIWAN

LA-250 Series

LA-250 · LA-250L · LA-250M · LA-250ML · LA-250Y · LA-250YL

LA-300 · LA-300M · LA-300Y

LA-300 Series

LA-250 I LA-300 Series

LA-250/300 series is a economy turning center, there are various types of spindle, turret and tailstock in whole series, high-precision optional peripherals are availabe.

Specification Options

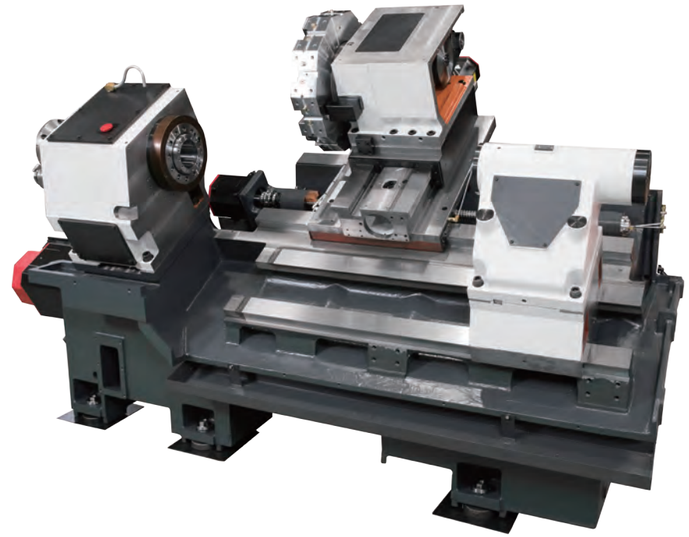
	LA-250[L]	LA-250M[L]	LA-250Y[L]	LA-300	LA-300M	LA-300Y
GearBox Spindle	◎	◎	◎	◎	◎	◎
P Motor Spindle	●	●	●	●	●	●
T10 Turning Turret	◎	---	---	◎	---	---
T12 Turning Turret	●	---	---	●	---	---
T12 Milling Turret	---	●	●	---	●	●
Y-Axis	---	---	●	---	---	●
Pin Carry Tailstock	●	●	●	●	●	●
Manual Tailstock	◎	◎	◎	◎	◎	◎

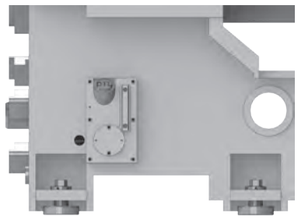
●:Standard ◎:Optional ---:Nope

Workpiece Size

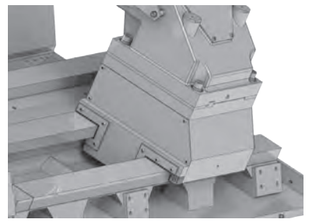
※ Specifications are subject to change without notice.

	LA-250[L]	LA-250M[L]	LA-250Y[L]	LA-300	LA-300M	LA-300Y	
Max. Turning Diameter	17.72	16.54	13.78	17.72	16.54	13.78	inch
Max. Turning Length	30.20[45.94]	28.86[44.61]	29.37[45.12]	42.76	41.42	41.93	inch
Max. Bar Work Capacity Diameter	2.95	2.95	2.95	3.54	3.54	3.54	inch

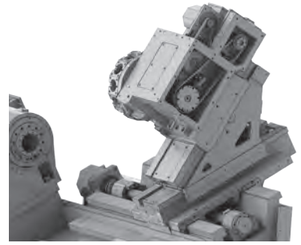




The machine bed designed with internal gear lubricaiton box.



The tailstock rail is box guide way design supports higher tailstock thrust.



The X/Y/Z-axis Box Ways design ensures dynamic rigidity and absorbs vibration to maintain accuracy with heavy cutting.

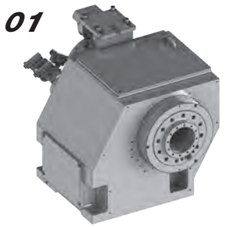
Travel & Rapid Traverse

	LA-250[L]	LA-250M[L]	LA-250Y[L]	LA-300	LA-300M	LA-300Y	
X-Axis Travel	10.04	10.04	8.66	10.04	10.04	8.66	inch
X-Axis Rapid Traverse	629.92	629.92	629.92	629.92	629.92	629.92	ipm
Z-Axis Travel	31.50[47.24]	31.50[47.24]	31.50[47.24]	47.24	47.24	47.24	inch
Z-Axis Rapid Traverse	787.40	787.40	787.40	787.40	787.40	787.40	ipm
Y-Axis Travel	---	---	±1.97	---	---	±1.97	inch
Y-Axis Rapid Traverse	---	---	314.96	---	---	314.96	ipm

※ Specifications are subject to change without notice.

Spindle

The spindle is made in house to ensure highest quality and reliability.
There are two types: GearBox headstock and P motor headstock. These alternatives allow choices for precision, torque or cost effectiveness.
Motors, through-hole size, spindle speed ratios, nose etc can be amended when possible following a customised needs assessment.

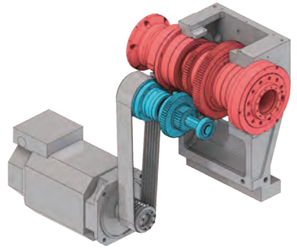


01 GearBox

Switching between low and high speed settings allows large depth of cut and high torque.

02 P Motor

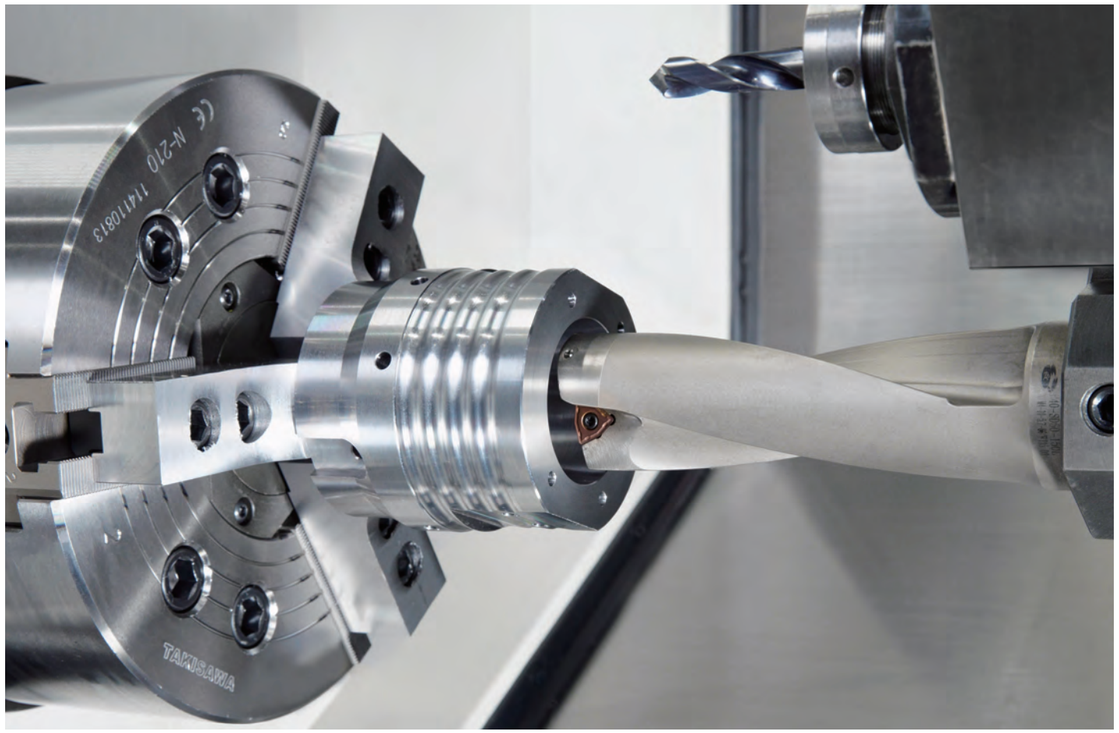
This is the most economical and highly reliable spindle option.



The LA series uses the traditional Takisawa Gear Box spindle design which has been proven through many generations of highly reliable products.

	LA-250 Series		LA-300 Series		
	GearBox	P Motor	GearBox	P Motor	
Spindle Nose	A2-8	A2-8	A2-8	A2-8	
Spindle Speed	3500	3500 (3000)	2800	2800	rpm
Through Hole Diameter	3.39	3.39	4.02	4.02	inch
Bearing Inside Diameter	4.72	4.72	5.51	5.51	inch
Motor Output	24.8/20.1	24.8/20.1	29.5/24.8	24.8/20.1	HP
Max. Torque	544.3	289.1(336.3)	646.8	289.1	ft·lbf

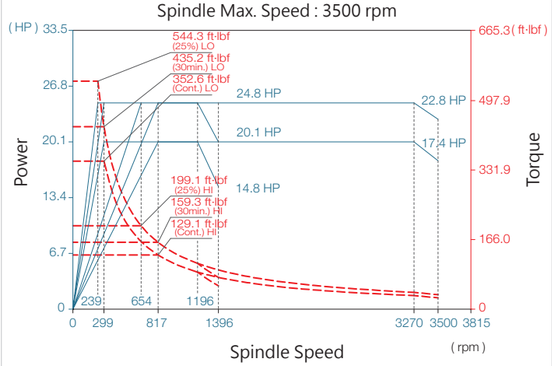
※ Specifications are subject to change without notice.



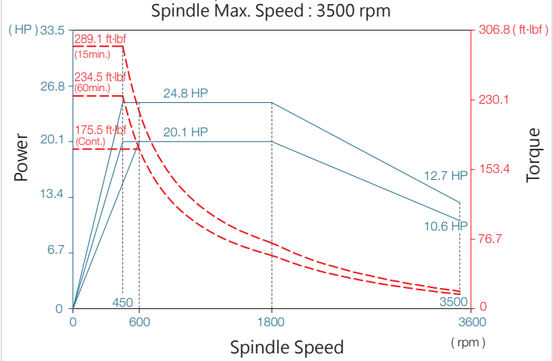
Spindle Output Diagram

LA-250 Series

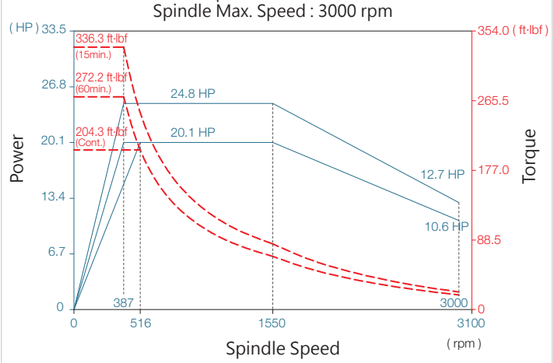
GearBox
αil 15/8000-B
Spindle Max. Speed : 3500 rpm



P Motor
βiIP 30/8000-B
Spindle Max. Speed : 3500 rpm

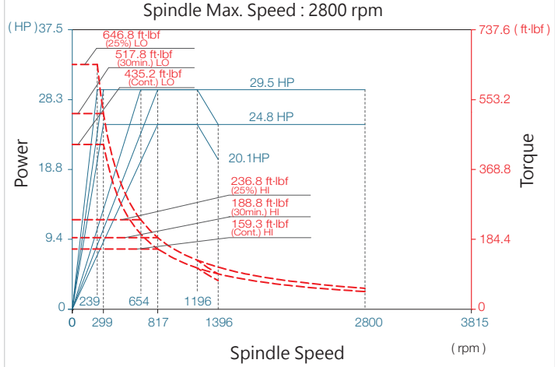


P Motor
βiIP 30/8000-B
Spindle Max. Speed : 3000 rpm

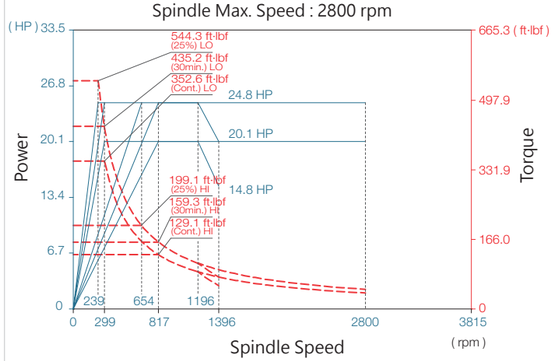


LA-300 Sereis

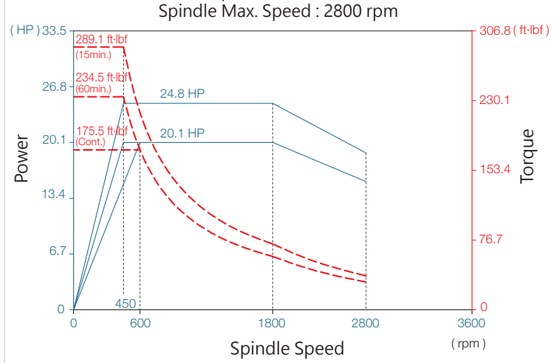
GearBox
αil 18/8000-B
Spindle Max. Speed : 2800 rpm



GearBox
αil 15/8000-B
Spindle Max. Speed : 2800 rpm

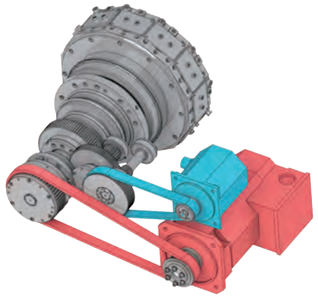


P Motor
βiIP 30/8000-B
Spindle Max. Speed : 2800 rpm

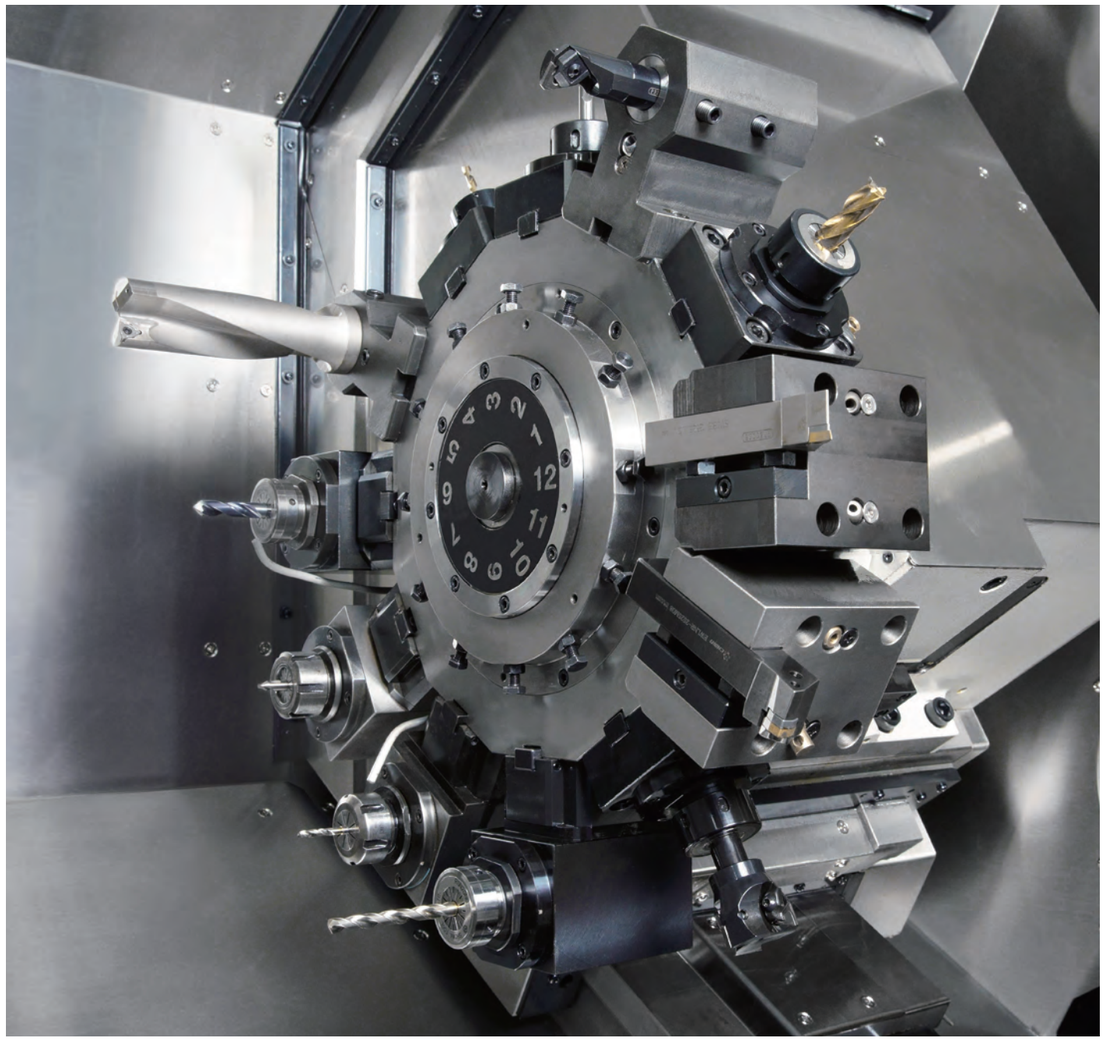


Turret

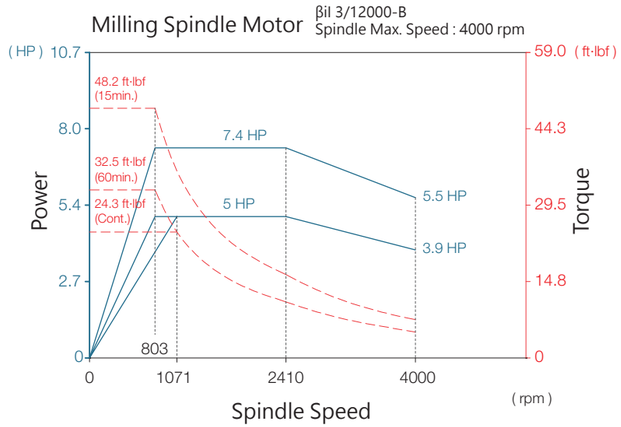
The T12 Milling Turret is a tested in house design that enables combined machining such as milling, drilling and tapping in addition to conventional turning. This allows complex and highly accurate machining in a single cycle for mass production of parts.
We can provide a customised needs assessment for special needs regarding numbers of tools, tool holders, milling cutters etc.



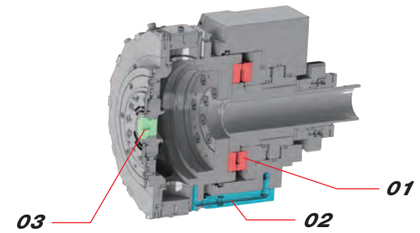
The milling motor is driven by a spindle motor and the tool changer is driven by a servo motor.



Spindle Output Diagram



Turret Structure

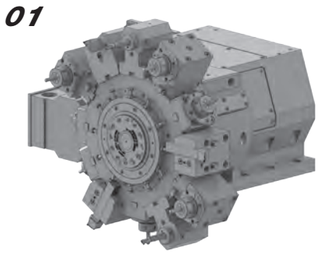


01 Curvic coupling OD 210mm performs high rigitlity and accuracy.

02 Ready for 70 bar hi-pressure coolant.

03 Easy to grease up.

01



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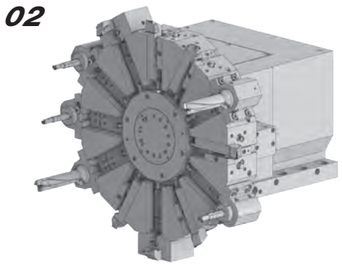

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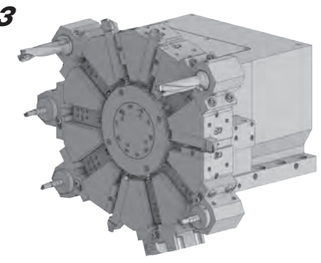


01 T12 Milling Turret

Number of Tools	12	
OD Tool Shank Dimension	1	inch
ID Tool Shank Diameter	1-1/2	inch
Milling Shank Diameter	3/4	inch
Spindle Speed	4000	rpm
Motor Output	7.4/5.0	HP
Torque	48.2	ft·lbf

02 T12 Turning Turret (Standard)

Number of Tools	12	
OD Tool Shank Dimension	1	inch
ID Tool Shank Diameter	1-1/2	inch

03 T10 Turning Turret (Option)

Number of Tools	10	
OD Tool Shank Dimension	1	inch
ID Tool Shank Diameter	2	inch

Special Tool Holders

01 Gear Hobbing

02 Broaching

03 Power Skiving

04 Adjustable Angle Milling

01

02

03

04

Tailstock

High rigit tailstock body with hydraulic driven quill, various driven types can be selected according to the requirement of user. High thrust or quill type can be customized according to the requirement of customer.

01 Pin Carry Tailstock with Live Center (Standard)

Tapered Bore Type	MT.5	
Tailstock Spindle Diameter	4.33	inch
Tailstock Spindle Travel	5.91	inch
Max. Thrust of Tailstock Spindle	3372.13	lbf

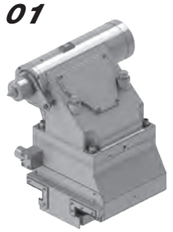
02 Manual Tailstock with live Center (Option)

Tapered Bore Type	MT.5	
Tailstock Spindle Diameter	4.33	inch
Tailstock Spindle Travel	5.91	inch
Max. Thrust of Tailstock Spindle	3372.13	lbf

03 Pin Carry Tailstock with Built-In Center (Option)

Tapered Bore Type	MT.5	
Tailstock Spindle Diameter	5.91	inch
Tailstock Spindle Travel	5.91	inch
Max. Thrust of Tailstock Spindle	1663.59	lbf

01



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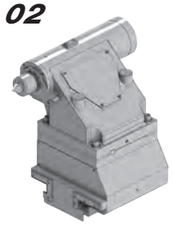

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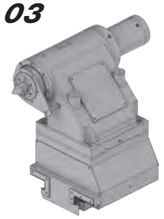


01 Steady Rest

Long workpieces provide stable centering while maintaining optimum machining accuracy.

02 Chip Conveyor

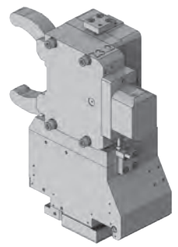
To assist with factory layout right and rear side chip conveyors are available.

Hinge Type
Chip Conveyor

Scraper Type
Chip Conveyor

Chip Type	Curly Metallic Chip Steel /Aluminum	Power Metallic Chip Foundry /Aluminum /Brass	Non-Metallic
Hinge Type	○	X	○
Scraper Type	X	○	X

01



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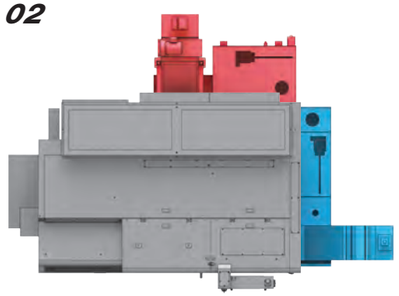
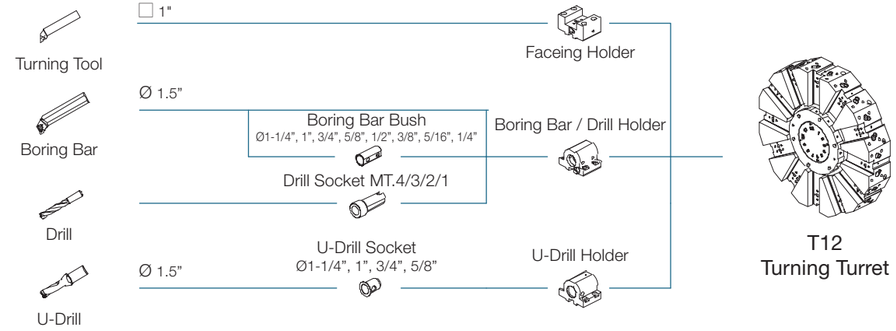
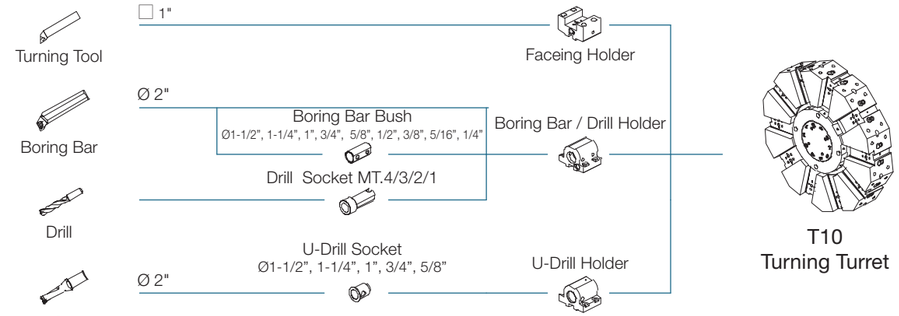


Tooling System

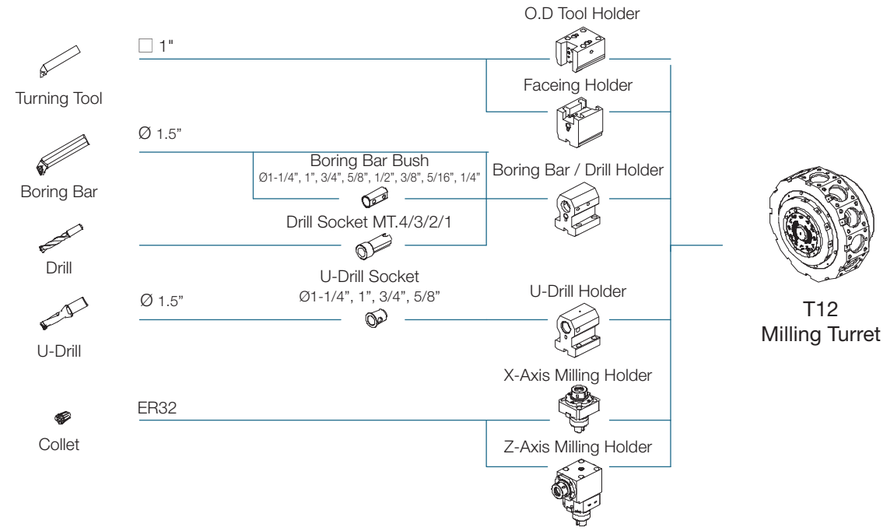
LA-250[L] / LA-300



LA-250[L] / LA-300

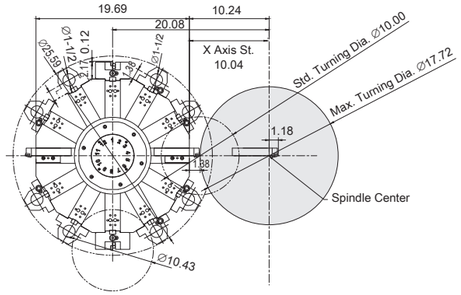


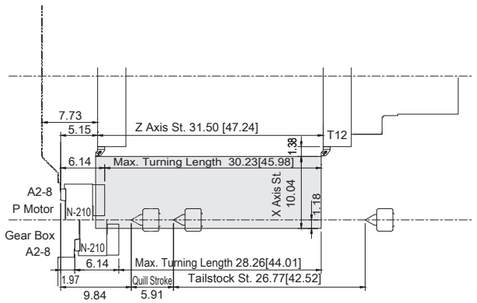
LA-250M[L]、LA-300M、LA-250Y[L]、LA-300Y



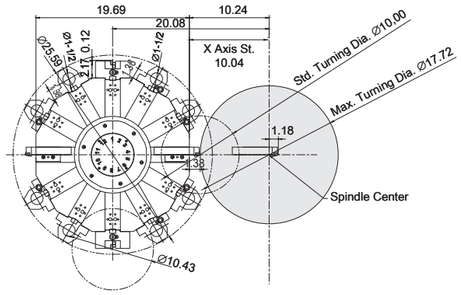
Working Range | Interference Diagram

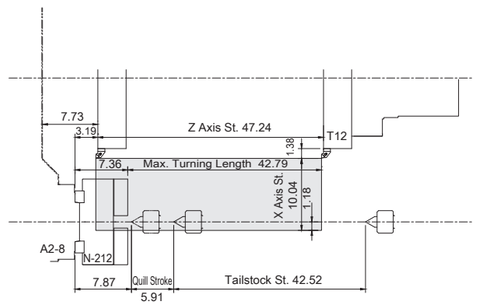
LA-250[L] T12



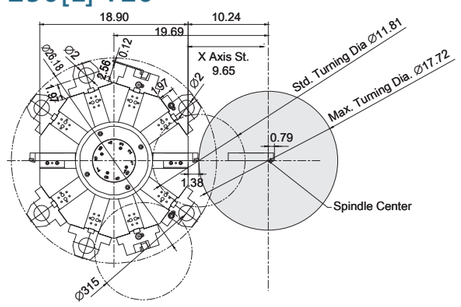


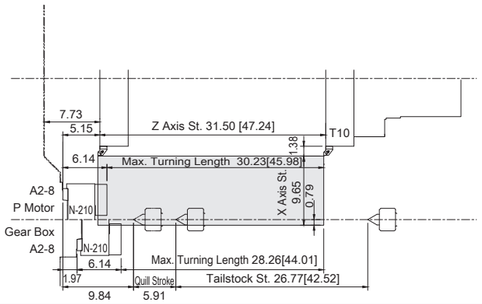
LA-300 T12



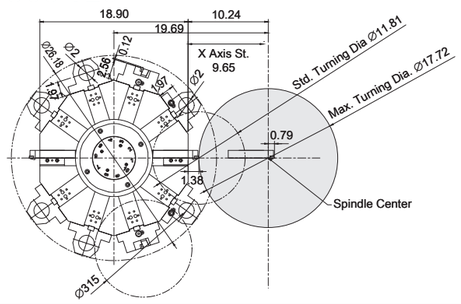


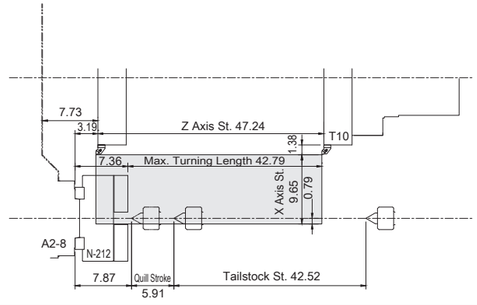
LA-250[L] T10



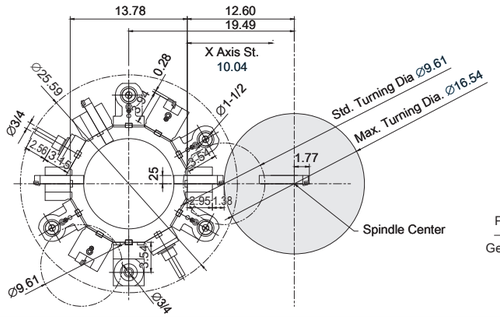


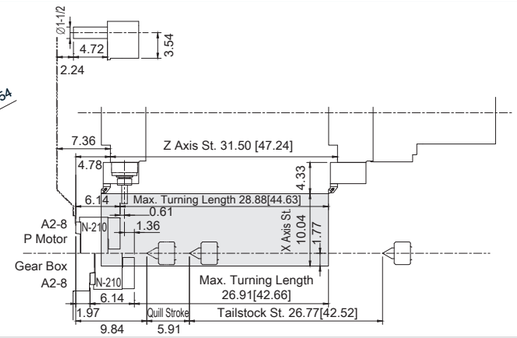
LA-300 T10



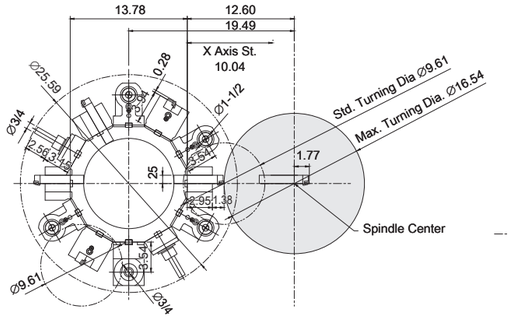


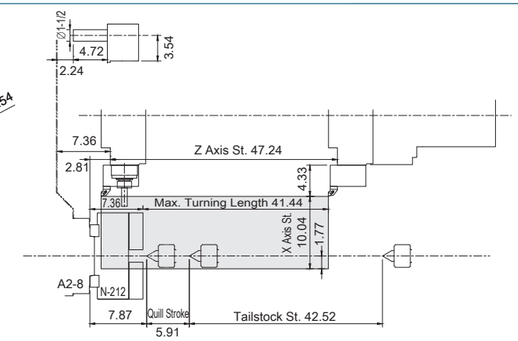
LA-250M[L] T12



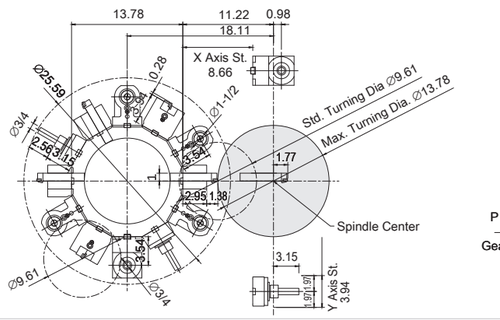


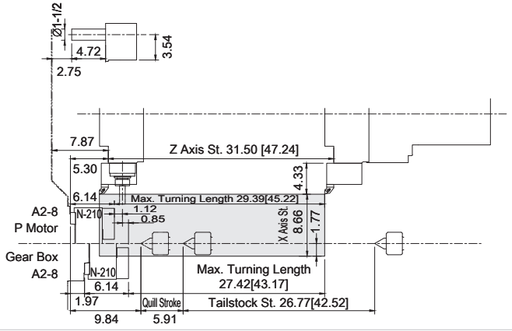
LA-300M T12



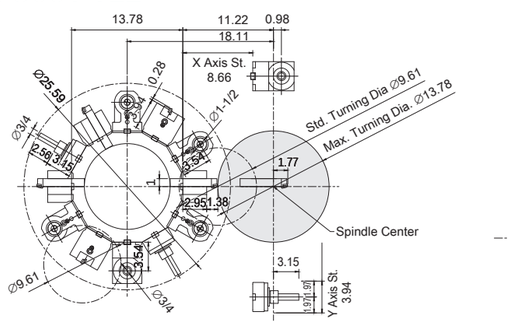


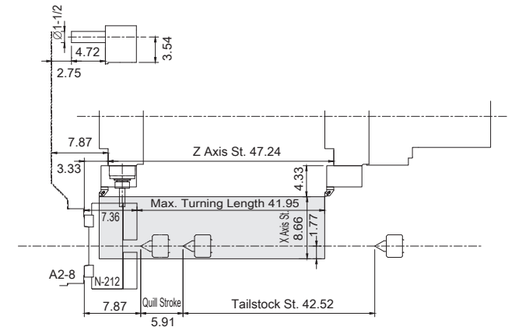
LA-250Y[L] T12





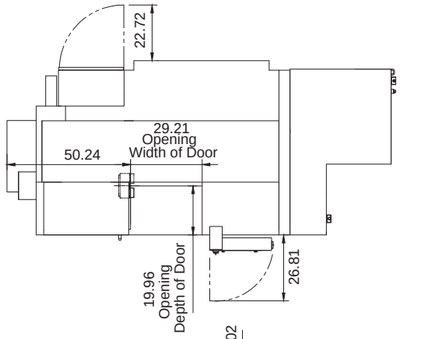
LA-300Y T12

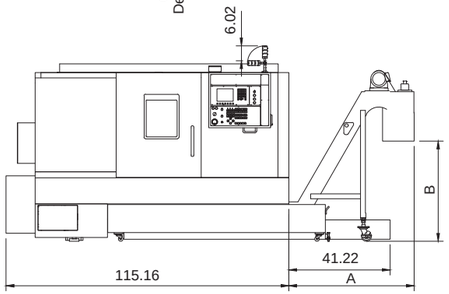


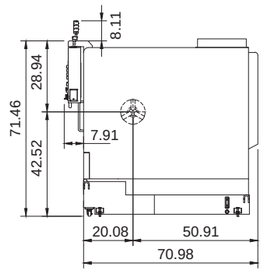


Machine Dimensions

LA-250 / LA-250M



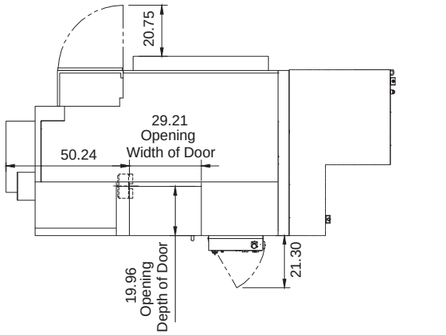


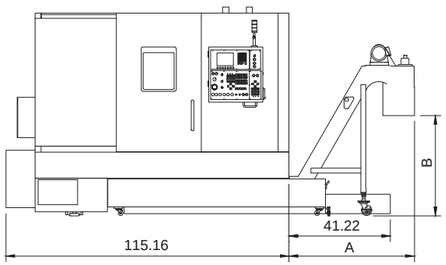


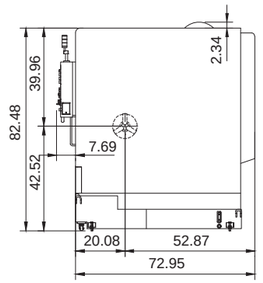
Chip Conveyor Dimension

	A	B
Standard	41.10	35.16
CE	41.18	29.65
Italy	51.02	40.79
Switzerland	51.02	46.69

LA-250Y



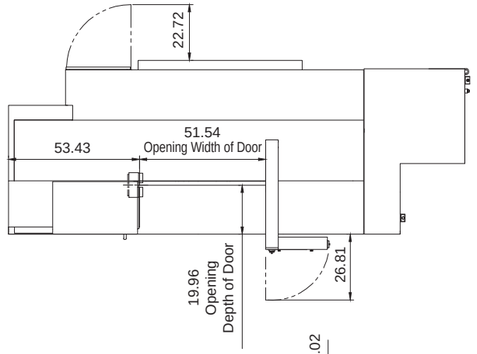


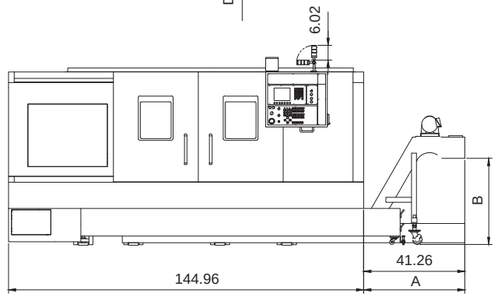


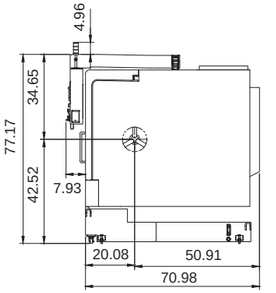
Chip Conveyor Dimension

	A	B
Standard	41.10	35.16
CE	41.18	29.65
Italy	51.02	40.79
Switzerland	51.02	46.69

LA-250L / LA-300 / LA-250ML / LA-300M



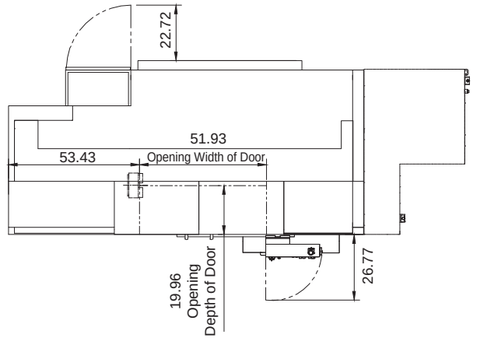


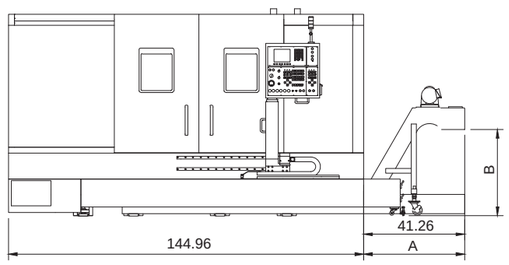


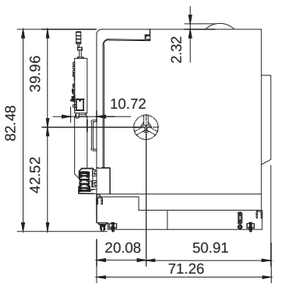
Chip Conveyor Dimension

	A	B
Standard	41.10	35.16
CE	43.15	33.07
Italy	51.02	40.79
Switzerland	51.02	46.69

LA-250YL / LA-300Y







Chip Conveyor Dimension

	A	B
Standard	41.10	35.16
CE	43.15	33.07
Italy	51.02	40.79
Switzerland	51.02	46.69

Machine Specification

Model		LA-250[L]	LA-300	LA-250M[L]	LA-300M	LA-250Y[L]	LA-300Y
Item	Unit						
Capacity							
Max. Swing	inch	22.83	22.83	22.83	22.83	22.83	22.83
Standard Turning Diameter	inch	10.00 T12 Turret 11.81 T10 Turret	10.00 T12 Turret 11.81 T10 Turret	9.61	9.61	9.61	9.61
Max. Turning Diameter	inch	17.72 T12 Turret 17.72 T10 Turret	17.72 T12 Turret 17.72 T10 Turret	16.54	16.54	13.78	13.78
Max. Turning Length	inch	30.20 [45.94] P Motor 28.23 [43.98] GearBox	42.76 P Motor 42.76 GearBox	28.86 [44.61] P Motor 26.89 [42.64] GearBox	41.42 P Motor 41.42 GearBox	29.37[45.12] P Motor 27.40[43.15] GearBox	41.93 P Motor 41.93 GearBox
Max. Bar Work Capacity	inch	2.95	3.54	2.95	3.54	2.95	3.54
Travel							
X-Axis Travel	inch	10.04 T12 Turret 9.65 T10 Turret	10.04 T12 Turret 9.65 T10 Turret	10.04	10.04	8.66	8.66
Z-Axis Travel	inch	31.50 [47.24]	47.24	31.50 [47.24]	47.24	31.50 [47.24]	47.24
Y-Axis Travel	inch	–	–		–	±1.97	±1.97
Spindle							
Spindle Speed	rpm	3500 P Motor GearBox 3000 P Motor 2800 Big Bore	2800	3500 P Motor GearBox 3000 P Motor 2800 Big Bore	2800	3500 P Motor GearBox 3000 P Motor 2800 Big Bore	2800
Spindle Nose		A2-8	A2-8	A2-8	A2-8	A2-8	A2-8
Through Hole Diameter	inch	3.39	4.02	3.39	4.02	3.39	4.02
Bearing Inside Diameter	inch	4.72	5.51	4.72	5.51	4.72	5.51
Turret							
Number of Tools		T12 T10	T12 T10	T12	T12	T12	T12
OD Tool Shank Dimension	inch	1	1	1	1	1	1
ID Tool Shank Diameter	inch	1-1/2 T12 Turret 2 T10 Turret	1-1/2 T12 Turret 2 T10 Turret	1-1/2	1-1/2	1-1/2	1-1/2
Milling Shank Diameter	inch	—	—	3/4 (ER32)	3/4 (ER32)	3/4 (ER32)	3/4 (ER32)
Milling Spindle Speed	rpm	—	—	4000	4000	4000	4000
Tailstock							
Tailstock Travel	inch	28.74	44.49	28.74	44.49	28.74	44.49
Tailstock Spindle Travel	inch	5.91	5.91	5.91	5.91	5.91	5.91
Tailstock Type		Live Center Built-In Center	Live Center Built-In Center	Live Center Built-In Center	Live Center Built-In Center	Live Center Built-In Center	Live Center Built-In Center
Tapered Bore Type		MT.5	MT.5	MT.5	MT.5	MT.5	MT.5
Tailstock Spindle Diameter	inch	4.33 Live 5.91 Built-In	4.33 Live 5.91 Built-In	4.33 Live 5.91 Built-In	4.33 Live 5.91 Built-In	4.33 Live 5.91 Built-In	4.33 Live 5.91 Built-In
Feedrate							
X-Axis Rapid Traverse	ipm	629.92	629.92	629.92	629.92	629.92	629.92
Z-Axis Rapid Traverse	ipm	787.40	787.40	787.40	787.40	787.40	787.40
Y-Axis Rapid Traverse	ipm	—	—	—	—	314.96	314.96
Motor							
Spindle Motor	HP	24.8/20.1	29.5/24.8 GearBox 24.8/20.1 GearBox P Motor	24.8/20.1	29.5/24.8 GearBox 24.8/20.1 GearBox P Motor	24.8/20.1	29.5/24.8 GearBox 24.8/20.1 GearBox P Motor
Milling Spindle Motor	HP	-	—	7.4/5.0	7.4/5.0	7.4/5.0	7.4/5.0
Index Motor	HP	1.6	1.6	1.6	1.6	1.6	1.6
X-Axis Servo Motor	HP	2.4	2.4	2.4	2.4	2.4	2.4
Z-Axis Servo Motor	HP	3.4	3.4	3.4	3.4	3.4	3.4
Y-Axis Servo Motor	HP	-	-	-	—	3.4	3.4
Machine Size							
Height	inch	71.46 [77.17]	77.17	71.46 [7.17]	77.17	82.48 [82.48]	82.48
Width	inch	115.16 [144.96]	144.96	115.16 [144.96]	144.96	115.16 [144.96]	144.96
Depth	inch	70.98 [70.98]	70.98	70.98 [70.98]	70.98	72.95 [71.26]	71.26
Weight	lb	9921 [16424]	16645	10031 [16535]	16755	13669 [20503]	20723

※ Specifications are subject to change without notice.

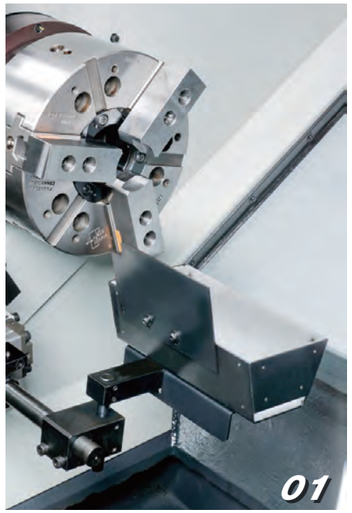
Standard and Optional Accessories

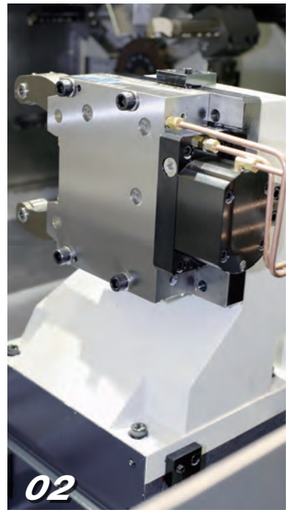
● : Standard ◎ : Optional --- : N/A

Item	LA-250[L] | LA-300	LA-250M[L] | LA-300M	LA-250Y[L] | LA-300Y
GearBox Spindle	◎	◎	◎
P Motor Spindle	●	●	●
Pin Carry Tailstock with Live Center	●	●	●
Pin Carry Tailstock with Built-In Center	◎	◎	◎
Manual Tailstock with live Center	◎	◎	◎
T10 Turning Turret	◎	---	---
T12 Turning Turret	●	---	---
T12 Milling Turret	---	●	●
OD Tool Holder	---	●	●
Face Tool Holder	●	●	●
U-Drill Tool Holder	●	●	●
Boring Bar Tool Holder	●	●	●
Boring Bar Bush (Ø1/4" 、Ø5/16" 、Ø3/8" 、Ø1/2")	●	●	●
Boring Bar Bush (Ø5/8" 、Ø3/4" 、Ø1" 、Ø1-1/4")	●	●	●
Boring Bar Bush (Ø1-1/2") T10 Only	●	---	---
U-Drill Bush (Ø5/8" 、Ø3/4" 、Ø1" 、Ø1-1/4")	●	●	●
U-Drill Bush (Ø1-1/2") T10 Only	●	●	●
Drill Bush (MT.1 、MT.2 、MT.3 、MT.4)	◎	◎	◎
X-Axis Milling Holder	---	●	●
Z-Axis Milling Holder	---	●	●
Automatic Tool Setter	◎	◎	◎
Manual Tool Setter	◎	◎	◎
Linear Scales	◎	◎	◎
Coolant Pump(1/2HP)	●	●	●
Coolant Pump(3/4HP 、1HP 、1-1/2HP)	◎	◎	◎
Cutting Fluid Cooling	◎	◎	◎
Hydraulic System	●	●	●
Nut Cooling Ball Screw	◎	◎	◎
High Pressure Coolant	◎	◎	◎
Hydraulic Oil Cooling	◎	◎	◎
Hydraulic Pressure Sensor	●	●	●
Lubrication System	●	●	●
Lubricating Oil Recycling Box	●	●	●
Hydraulic Chuck	●	●	●
Collet Chuck	◎	◎	◎
Foot Switch	●	●	●
LED Interior Light	●	●	●
LED Signal Tower	●	●	●
Hydraulic Steady Rest	◎	◎	◎
Manual Steady Rest	◎	◎	◎
Right Side Chip Conveyor	◎	◎	◎
Rear Side Chip Conveyor	◎	◎	◎
Chip Cart	●	●	●
Parts Catcher	◎	◎	◎
Parts Conveyor	◎	◎	◎
Automatic Bar Feeder and Interface	◎	◎	◎
Eletrical Auto Door	◎	◎	◎
Pneumatic Auto Door	◎	◎	◎
Safety Door Switch	◎	◎	◎
Safety Light Curtain	◎	◎	◎
Air Blow	◎	◎	◎
Oil Skimmer	◎	◎	◎
Oil Mist Collector	◎	◎	◎
Parts Counter	◎	◎	◎
Automatic Power-Off	◎	◎	◎

※ Specifications are subject to change without notice.

Special Specification Example





For any special needs such as changes in the specification of the work piece catcher and the centre frame please contact us for a customised needs assessment.

01 Parts Catcher

Max. Catching Diameter	3.54	inch
Max. Catching Length	8.27	inch
Max. Catching Weight	6.6	lb

02 Hydraulic Steady Rest

SMW SLU-Z-1	Ø0.16~Ø2.52	inch
SMW SLU-Z-2	Ø0.31~Ø3.98	inch
SMW SLU-Z-3	Ø0.47~Ø5.98	inch
SMW SLU-Z-3.1	Ø0.79~Ø6.50	inch
SMW SLU-Z-3.2	Ø1.97~Ø7.87	inch

03 Manual Steady Rest

T006	Ø1.97~Ø6.10	inch
T009	Ø3.94~Ø9.45	inch
T011	Ø0.31~Ø3.15	inch
T012	Ø0.79~Ø7.87	inch

Highly Accurate Optional Equipment

There are special requirements for precise machining accuracy and it is necessary to use approved high-precision optional equipment.

Please contact us for advice on these options.

01	Linear Scales
02	Automatic & Manual Tool Setter
03	Nut Cooling Ball Screw
04	Cutting Fluid Cooling
05	High Pressure Coolant
06	Hydraulic Oil Cooling

01

02

03

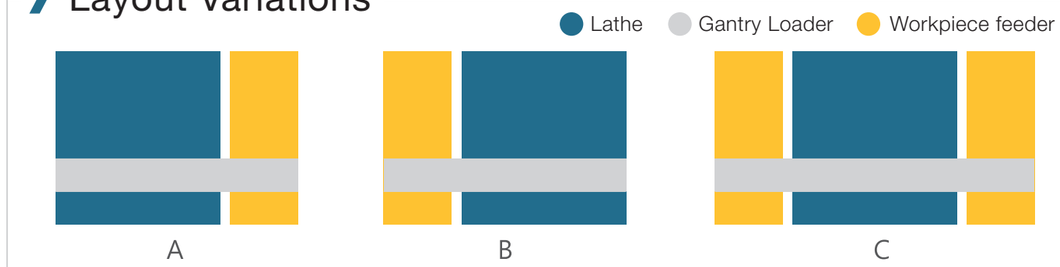
04

05

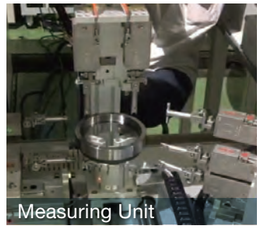
06

High Speed Gantry Loder System

Layout Variations



Peripheral Equipment



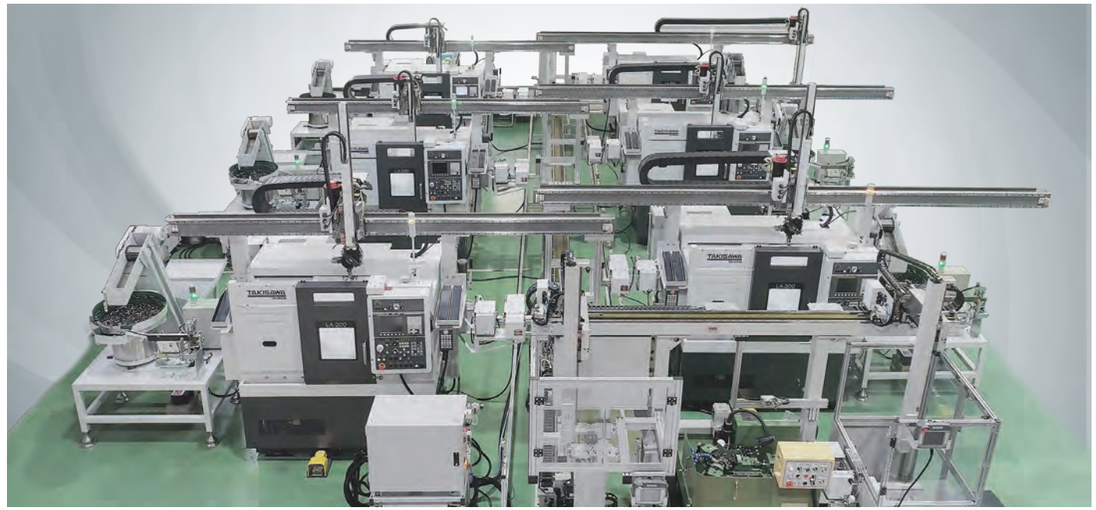
Gantry Loader Specifications

Feedrate		
X axis	7086.61	ipm
Z axis	5905.51	ipm
Working Size		
OD	6.3	inch
Length	3.94	inch
Weight	6.6(x2)	lb

Work Feeder Specifications

Pallet	16	pcs
Loading weight	88	lb
Max. Height	17.72	inch
Work feeder width	24.02	inch

Turn-Key Solution



NC Unit Specification

Controller	LA-250[L] LA-300	LA-250M[L] LA-300M	LA-250Y[L] LA-300Y
0i-TF	●	●	●
NC Unit	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
8.4" Color LCD	●	●	●
10.4" Color LCD	◎	◎	◎
Safety Device	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
Front Door Interlock	◎	◎	◎
Front Door Locking Mechanism	◎	◎	◎
Safety Relay	◎	◎	◎
Control Panel Breaker with Tripper	◎	◎	◎
Controlled Axes	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
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 Barrie	▲	▲	▲
Mirror Image (Each Axis)	▲	▲	▲
Chamfering ON/OFF	●	●	●
Overload Detection	▲	▲	▲
Position Switch	●	●	●
Operation	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
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 Preventive	▲	▲	▲
Buffer Register	●	●	●
Dry Run	●	●	●
Single Block	●	●	●
Jog Feed	●	●	●
Manual Reference Point Return	●	●	●
Dogless Reference Point Setting	●	●	●
Manual Handle Feed, 1 Unit	●	●	●
Interpolating Functions	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
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)	●	●	●

Interpolating Functions	LA-250[L] LA-300	LA-250M[L] LA-300M	LA-250Y[L] LA-300Y
Reference Point Return Check (G27)	●	●	●
2nd Reference Point Return (G30)	●	●	●
3rd, 4th Reference Point Return	●	●	●
Feed Function	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
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	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
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 N8 Digits	●	●	●
Absolute/Incremental Command	●	●	●
Decimal Point Input/Pocket Calculator Type Decimal Point Input	●	●	●
Diameter / Radius Programming (X-Axis)	●	●	●
Coordinate System Setting (G50)	●	●	●
Auto coordinate System Setting	●	●	●
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	●	●	●
Combined Canned Cycle II	●	●	●
Drilling Canned Cycle	●	●	●
Arc Radius Programming	●	●	●
Macro Executor	◎	◎	◎
Coordinate System Shift	●	●	●
Coordinate System Shift Direct Input	●	●	●
Miscellaneous Function/ Spindle Functions	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
M Function (M3 Digits)	●	●	●
Second Miscellaneous Function (B Function)	◎	◎	◎
Spindle Functions (S4 Digits)	●	●	●
Constant Surface Speed Control	●	●	●
Spindle Orientation	●	●	●
Rigid Tap (Spindle Center)	●	●	●
Rigid Tap (Rotary Tool)	---	●	●

Data I/O	LA-250[L] LA-300	LA-250M[L] LA-300M	LA-250Y[L] LA-300Y
RS-232C Interface for 1 ch	●	●	●
Fast Data Server	⊕	⊕	⊕
External Message	●	●	●
External Workpiece Number Search	◎	◎	◎
Memory Card I/O	●	●	●
Tool Functions/Tool Offset Functions	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
T Function (T2+2 Digits)	●	●	●
Tool Offsets, 99 Pieces	●	●	●
Tool Offsets, 200 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	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
Backlash Compensation	●	●	●
Backlash Compensation by RapidTraverse/Feedrate	●	●	●
Editing	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
Part Program Memory Capacity 512Kbyte (1280m)	●	●	●
Part Program Memory Capacity 2Mbyte	◎	◎	◎
Registrable Programs, 400 Programs	●	●	●
Registrable Programs, 1000 Programs	◎	◎	◎
Program Editing	●	●	●
Program Protection	●	●	●
Extended Program Editing	●	●	●
Background Editing	●	●	●

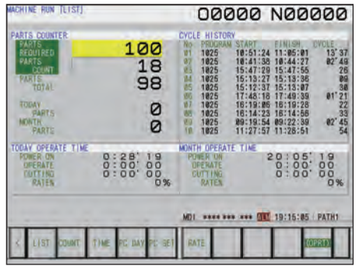
Setting/Display	LA-250[L] LA-300	LA-250M[L] LA-300M	LA-250Y[L] LA-300Y
Status Display	●	●	●
Clock Function	●	●	●
Current Position Display	●	●	●
Program Comment Display (31 Characters)	●	●	●
Parameter Setting and Display	●	●	●
Alarm Display	●	●	●
Alarm Log Display	●	●	●
Operator Message Log Display	●	●	●
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	**LA-250[L] LA-300**	**LA-250M[L] LA-300M**	**LA-250Y[L] LA-300Y**
English	●	●	●
Japanese (Kanji))	▲	▲	▲
Other Language	▲	▲	▲
Display Language Dynamic Switching	●	●	●

●:Standard ◎:Optional ⊕:Special
▲:Parameter setting is required ---:Nope

Smart Work Manager (option)

It provides simple operation and convenient function.

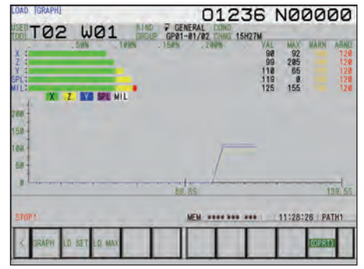
01



Tool Life Manager

This function can set tool life and wear limit to manage all tools.

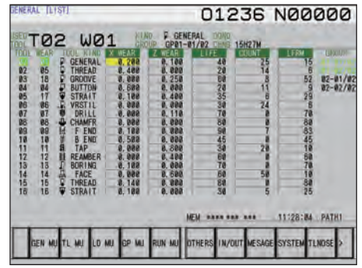
02



Load Monitor

Detecting max load to check tool status.

03



Parts and Machine Manager

It offer parts counter, program history, operate time for today or this month.