

LA-250YS

TAKISAWA[®]
TAIWAN

PERFORMANCE FOR
MULTIPLE AXIS TURNING

CNC
LATHE





LA-250YS

NEW ! New Generation ! Full evolution 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.
3. Servo motor specification upgrade: Maximum motor torque has been increased by 51%.



Specifications



Max. swing	23.6 inch
Max. turning length	29 inch
Max. turning diameter	370 inch
Max. bar work capacity	3/2 inch
Spindle/Sub spindle speed	3500 rpm
Chuck size	10"

※ Specifications are subject to change without notice.



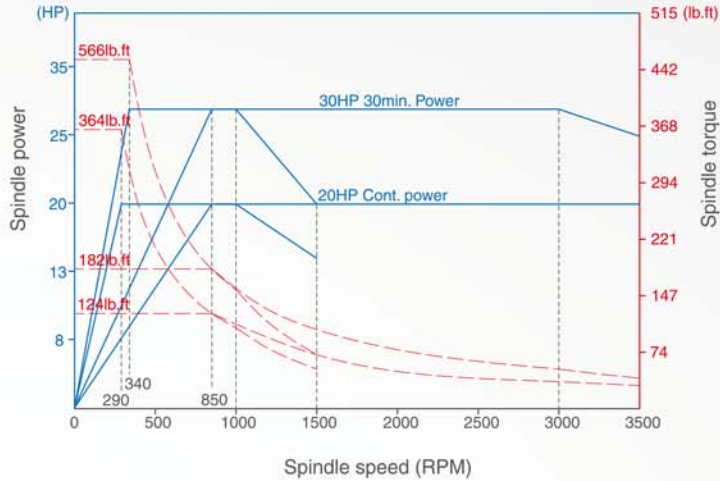
Internal use of stainless steel sheet , texture upgrade !



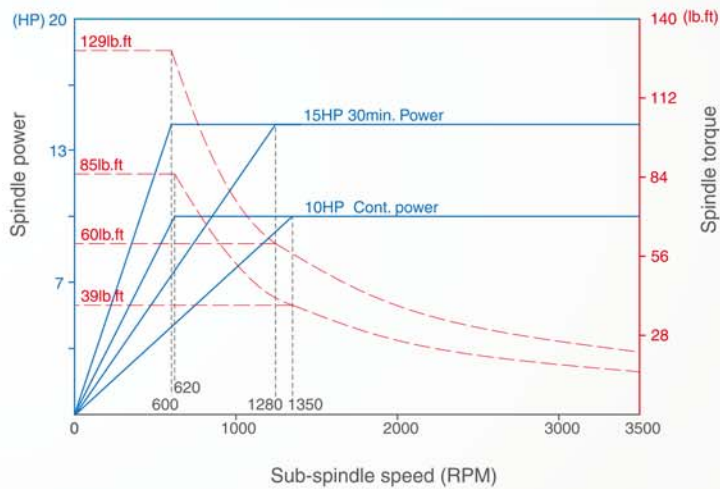
Spindle output diagram

Powered by FANUC MOTOR for high stability & high accuracy.

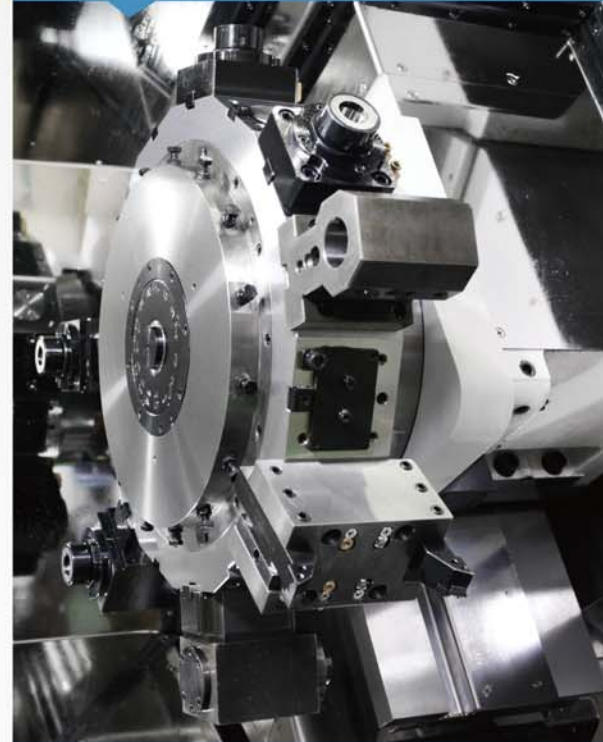
LA-250YS | 250S/6000 30/20HP



LA-250YS | 170S/6000 15/10HP



LA 250YS

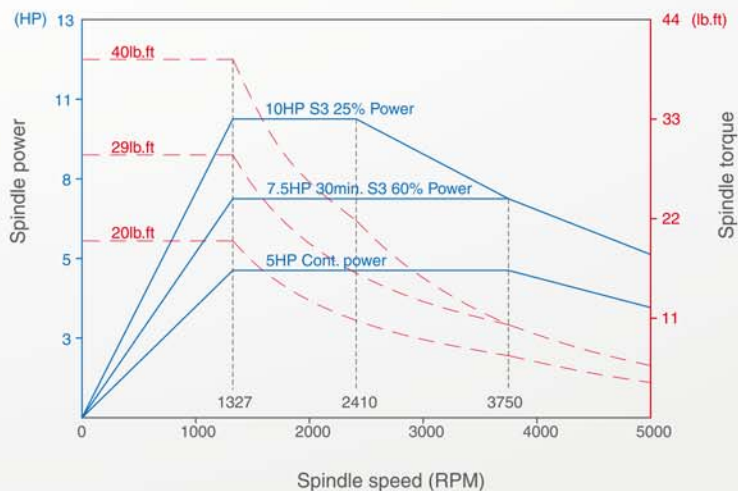


T15 turret



Power chart of milling tool

LA-250YS | oil3/10000





LA-250YS



New generation of type !!!



New generation of type,
Z axis travel upgrade !!!



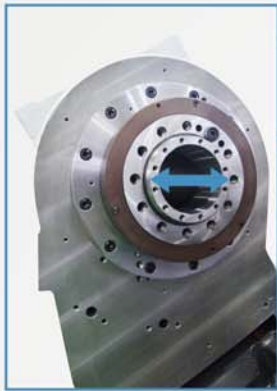
New generation of type,
X axis travel upgrade !!!

X axis

Z axis

Y axis

Cs axis



Spindle through hole Dia. : 4 inch



Z axis motor Max. thrust : 7691 lb



New generation of type upgrade **51%** !



Travel & Feedrate

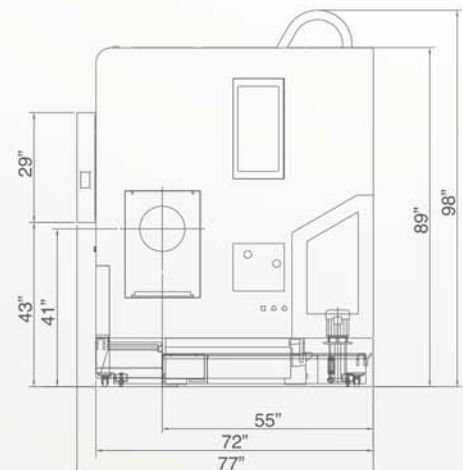
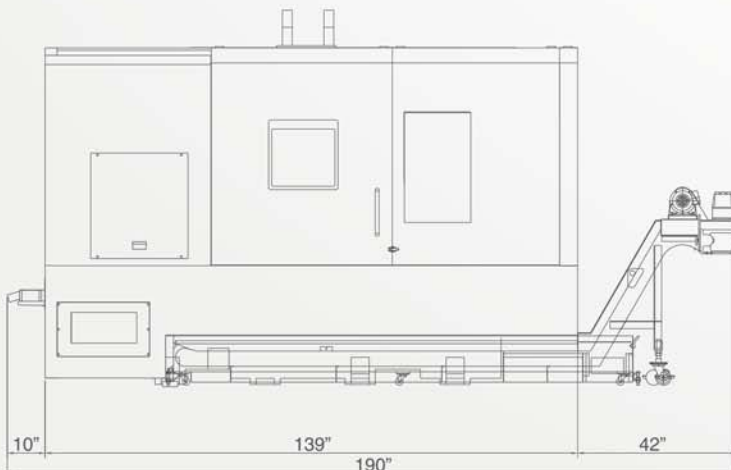
X axis travel	10.6 inch
X axis rapid traverse rate	787 ipm
Z axis travel	31.5 inch
Z axis rapid traverse rate	787 ipm
Y axis travel	+2.6-2 inch
Y axis rapid traverse rate	394 ipm

※ Specifications are subject to change without notice.



Machine dimensions

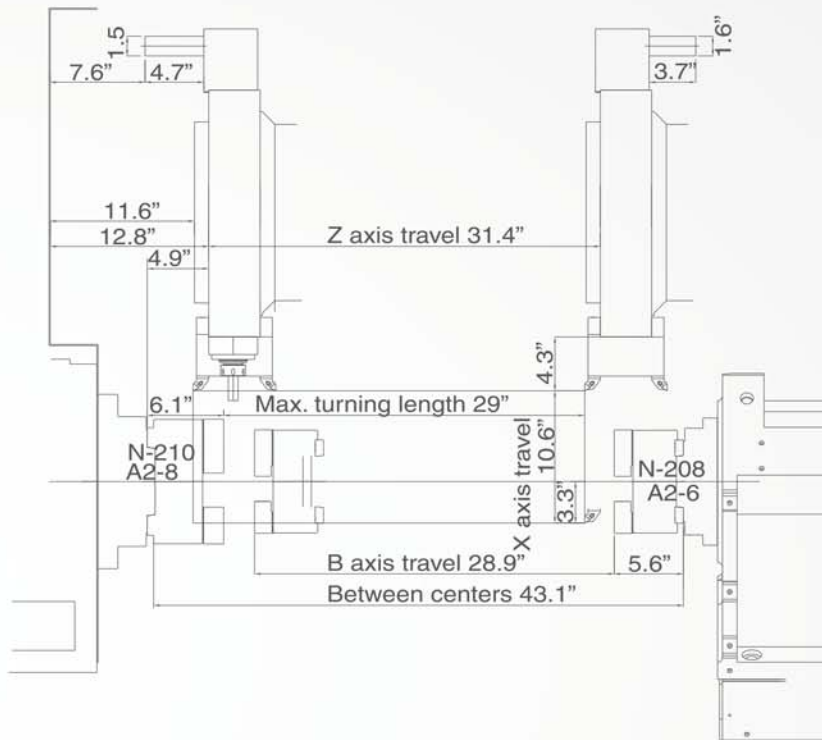
Unit : inch



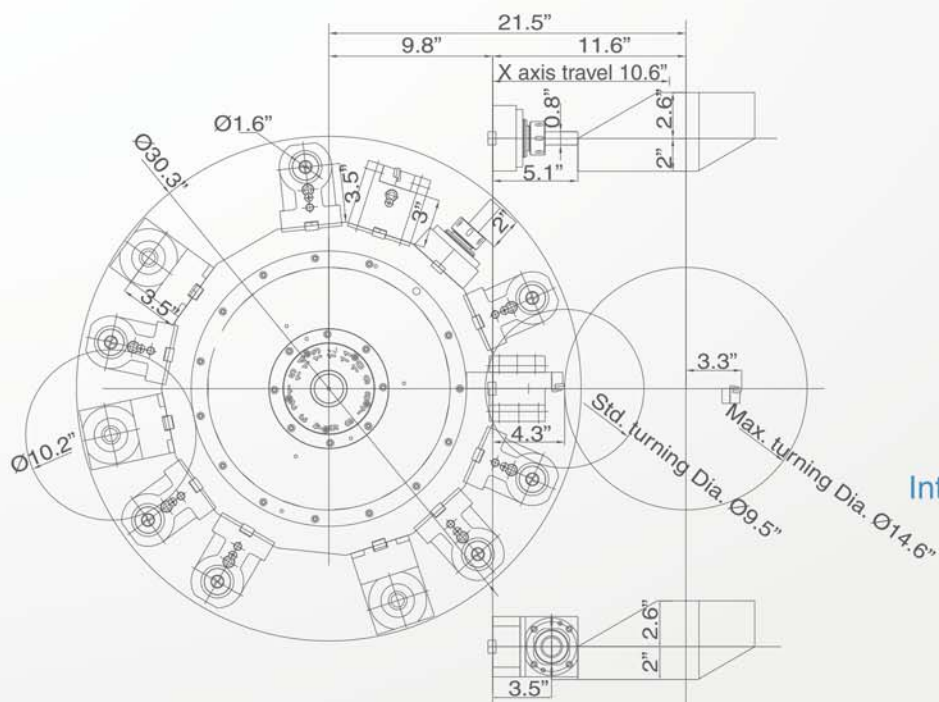


Working range Interference diagram

LA 250YS



Working range

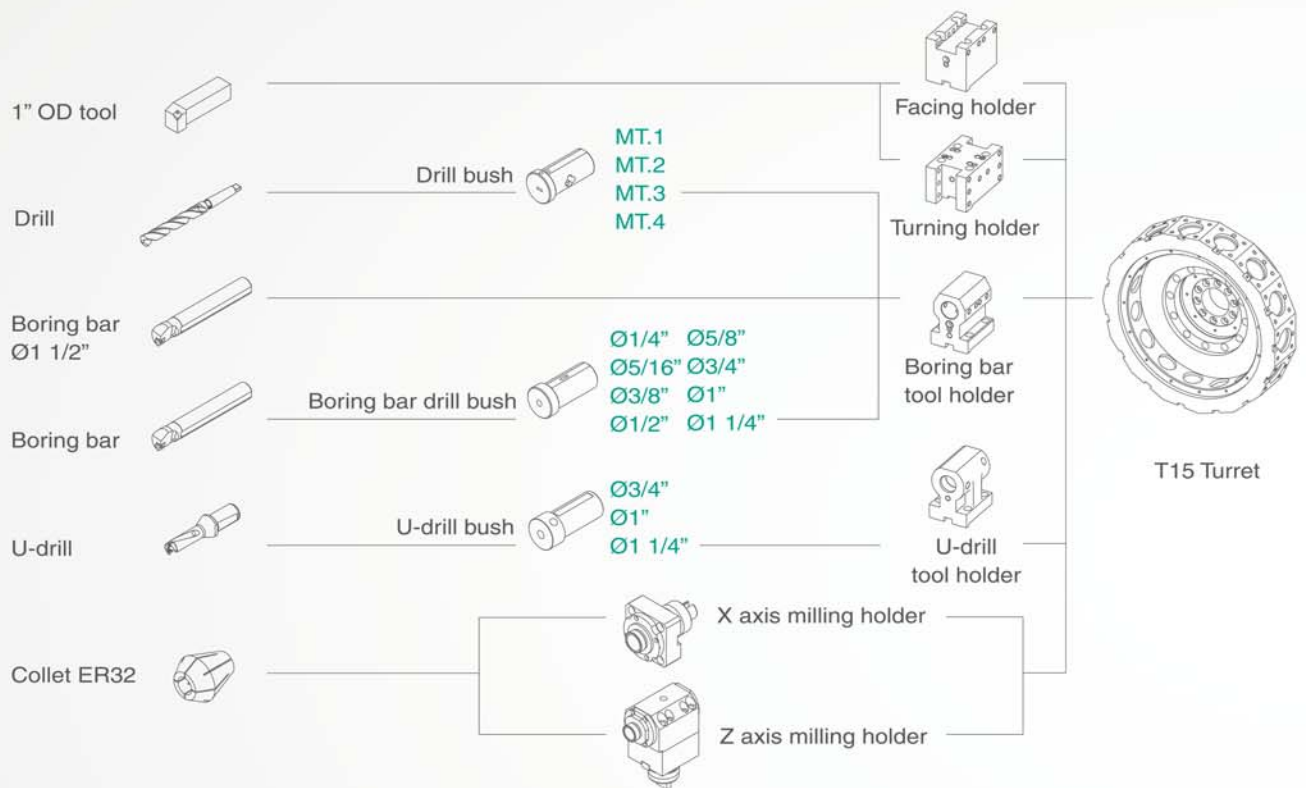


Interference diagram



Tooling system

LA-250YS



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



Specifications

LA 250YS

Remark1 : () Option

Item	Unit	LA-250YS
Capacity		
Max. swing	inch	23.6
Std. turning diameter	inch	12(T12)/9.5(T15)
Max. turning diameter	inch	14.6
Max. turning length	inch	29
Between centers	inch	43.1
Travel		
X axis travel	inch	10.6
Z axis travel	inch	31.4
Y axis travel	inch	+2.6-2
B axis travel	inch	28.9
Spindle		
Spindle speed	rpm	3500
Chuck size		10"
Spindle nose		A2-8
Max. bar work capacity	inch	3"
Through hole diameter	inch	4
Bearing diameter	inch	5.5
Sub-spindle		
Spindle speed	rpm	3500
Chuck size		8"
Spindle nose		A2-6
Max. bar work capacity	inch	2
Through hole diameter	inch	3
Bearing diameter	inch	4.3

Item	Unit	LA-250YS
Turret		
Number of tools		T15(T12)
Turning tool shank	inch	1(1.25)
Boring bar shank diameter	inch	1.5(2)
Milling tool shank diameter	inch	0.75(1)
Feedrate		
X axis rapid traverse rate	ipm	787
Z axis rapid traverse rate	ipm	787
Y axis rapid traverse rate	ipm	393
B axis rapid traverse rate	ipm	787
Motor		
Spindle drive motor	HP	30/20
Sub-spindle drive motor	HP	15/10
Milling motor	HP	10/5
Turret index motor	HP	1.6
X axis drive motor	HP	4
Z axis drive motor	HP	4
Y axis drive motor	HP	4
B axis drive motor	HP	3.4
Size		
Length	inch	139
Height	inch	89
Width	inch	77
Weight	lb	17640

※ Specifications are subject to change without notice.



Parts conveyor



Parts catcher



Tool setter





NC unit specifications

Composition

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

Specifications / Contents	LA-250YS
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
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 barrie	◎
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 preventive	△
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
Interpolating functions	
Positioning (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

Main function list

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

Specifications / Contents	LA-250YS
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
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	☆



More

www.takisawa.com.tw

Taiwan Takisawa Technology Co., Ltd.

No.505, Sec. 3, Yenping Rd., Pingchen Dist.,
Taoyuan City 324, Taiwan.

TEL : +886-464-3166 FAX : +886-464-2614

No.89, Sec. 1, Meishi Rd., Yangmei Dist.,
Taoyuan City 326, Taiwan.

TEL : +886-481-3119 FAX : +886-481-3185

E-mail : callcenter@takisawa.com.tw

Takisawa Tech Corp.

1500 S. Milliken Avenue, #B, Ontario, CA 91761.USA

TEL : (909)218-4466 FAX : (909)218-4981

TAKISAWA®

T A I W A N

Distributor