



More

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**TAKISAWA**<sup>®</sup>  
TAIWAN

Distributor

2014.02

# LA-250/300 SERIES

**TAKISAWA**<sup>®</sup>  
TAIWAN

LA250[L]  
LA-250M[L]  
LA-250Y[L]  
LA-300

CNC  
LATHE



**BUILT TO JAPANESE QUALITY  
STANDARDS BY TAIWAN TAKISAWA.**



LA-250/300 series  
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## LA-250 SERIES

LA250[L] Turning  
LA-250M[L] Turning and Milling  
LA-250Y[L] Turning and Milling with Y axis



## LA-300

LA-300 Turning



# LA-250 | LA-300 Series

# LA

## 250/300 SERIES

### High Performance Model Range

- Modulized structure with optional C axis and Y axis.
- Box way design for all machining axes.
- Takisawa in-house turret and spindle featuring high rigidity and accuracy with easy maintenance.
- Minimum footprint, maximum working space.
- High productivity to investment cost ratio.



#### LA-250[L] Specifications

Max. swing	580 mm
Max. turning length	765[1165] mm
Max. turning diameter	450 mm
Max. bar work capacity	76(90) mm
Spindle speed	3000(3500) rpm
Chuck size	10"



#### LA-250Y[L] Specifications

Max. swing	580 mm
Max. turning length	746.5[1146.5] mm
Max. turning diameter	350 mm
Max. bar work capacity	75 mm
Spindle speed	3000(3500) rpm
Chuck size	10"



#### LA-250M[L] Specifications

Max. swing	580 mm
Max. turning length	734[1134] mm
Max. turning diameter	420 mm
Max. bar work capacity	75 mm
Spindle speed	3000(3500) rpm
Chuck size	10"



#### LA-300 Specifications

Max. swing	580 mm
Max. turning length	1150 mm
Max. turning diameter	450 mm
Max. bar work capacity	90 mm
Spindle speed	3000 rpm
Chuck size	12"(15")

※ Specifications are subject to change without notice.



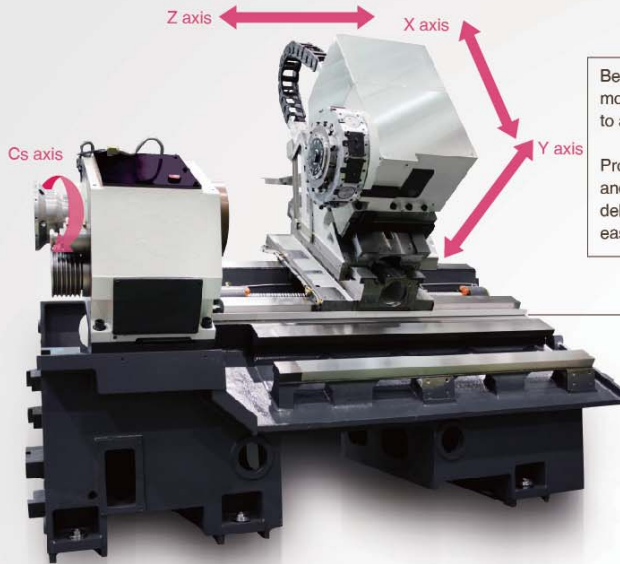
# LA-250 | LA-300 Series



# Spindle output diagram

# LA

## 250/300 SERIES



Bed surface hatchback integrally molded cradle with box way design to achieve high performance.

Provides smooth chip resistance and spacious space for clearing debris becomes convenient and easy.

### Travel & Feedrate

LA-250[L]	
X axis travel	255 mm
X axis rapid traverse rate	16 m/min
Z axis travel	800[1200] mm
Z axis rapid traverse rate	20 m/min

LA-250M[L]	
X axis travel	255 mm
X axis rapid traverse rate	16 m/min
Z axis travel	800[1200] mm
Z axis rapid traverse rate	20 m/min

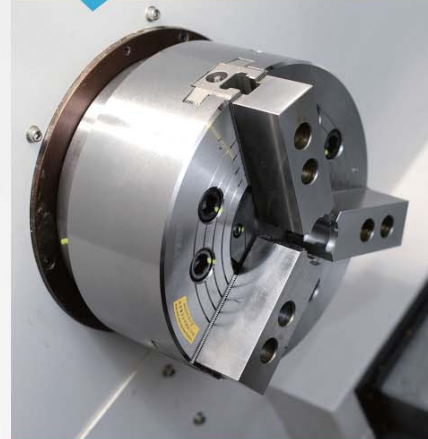
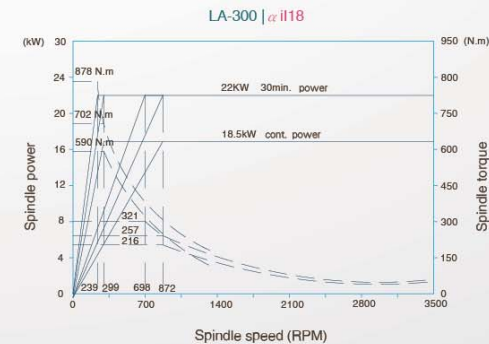
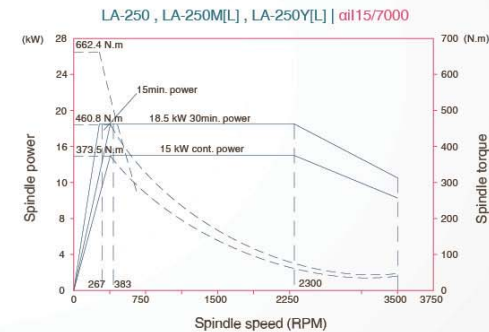
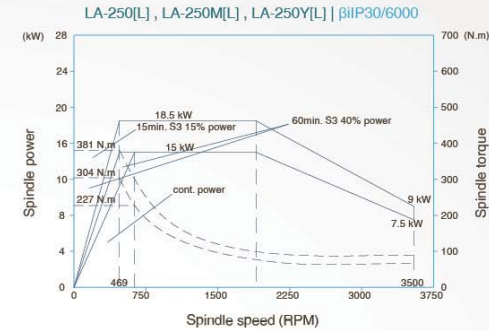
LA-250Y[L]	
X axis travel	220 mm
X axis rapid traverse rate	16 m/min
Z axis travel	800[1200] mm
Z axis rapid traverse rate	20 m/min
Y axis travel	±50 mm
Y axis rapid traverse rate	8 m/min

LA-300	
X axis travel	255 mm
X axis rapid traverse rate	16 m/min
Z axis travel	1200 mm
Z axis rapid traverse rate	20 m/min

※ Specifications are subject to change without notice.

Standard  
Option

Powered by FANUC MOTOR for high stability & high accuracy.



The spindle incorporates double rows of cylindrical bearings to improve the quality and accuracy of machining.



The LA series with C-axis positioning allows driven tool milling avoiding artifacts generated by compounding movement errors, giving higher accuracy with shorter process times and less effort.



## Turret specifications



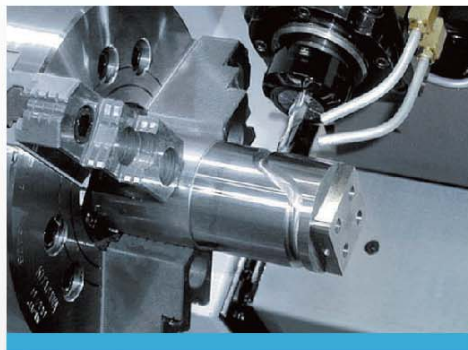
The turret is designed for extreme rigidity through its wide and heavy build, inclusion of heavy duty oversized couplings and enhanced clamping pressure.



### Milling turret

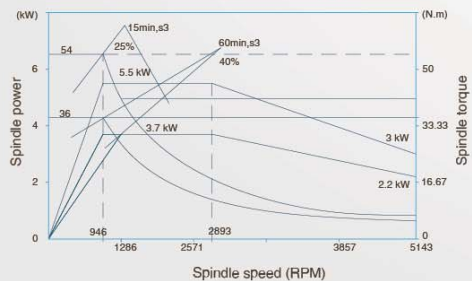
LA-250M[L]  
 Motor 3.7/5.5 kW  
 Milling speed 4000 rpm  
 Live tool collet ER32

LA-250Y[L]  
 Motor 3.7/5.5 kW  
 Milling speed 4000 rpm  
 Live tool collet ER32



## Power chart of milling tool

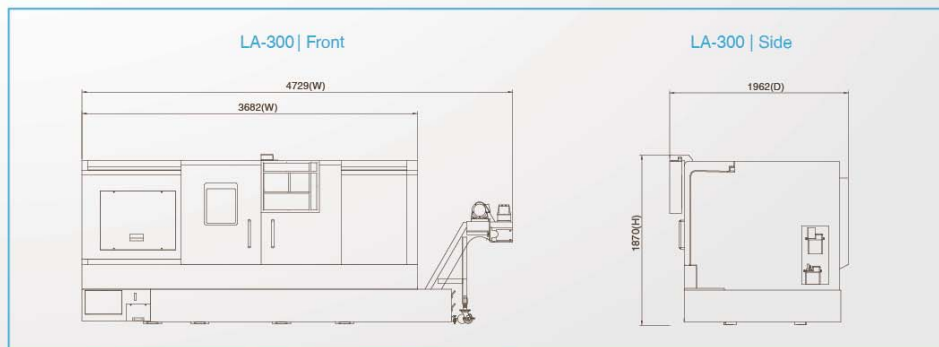
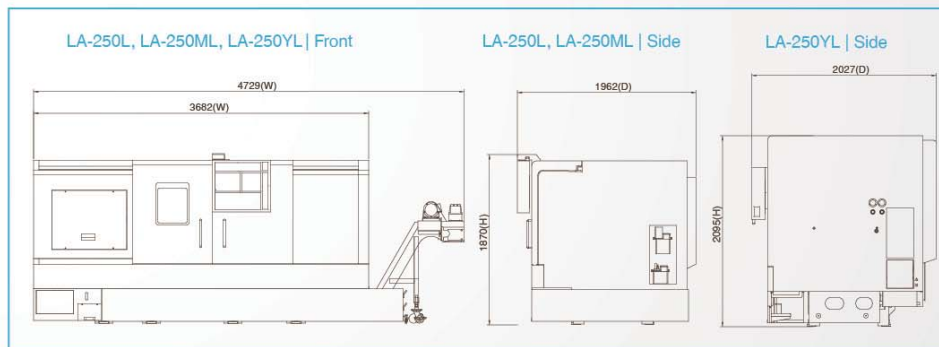
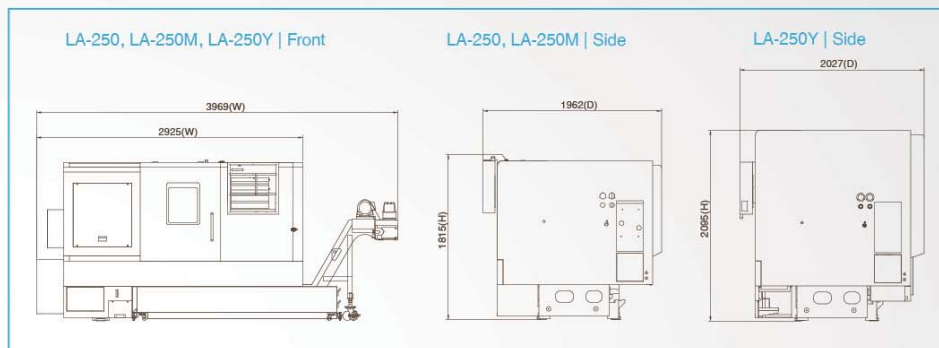
LA-250M[L] · LA-250Y[L]



## Machine dimensions

# LA

### 250/300 SERIES



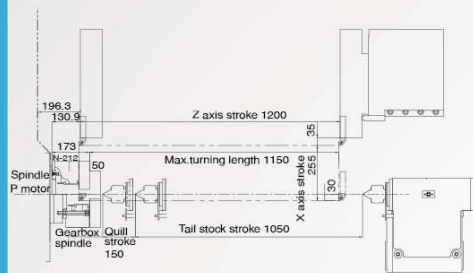


# Working range | Interference diagram

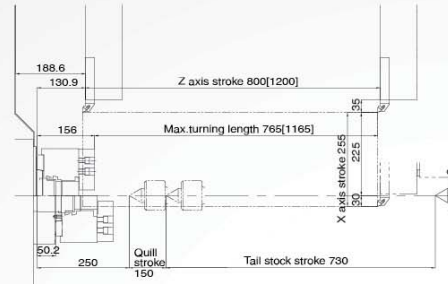
# LA

## 250/300 SERIES

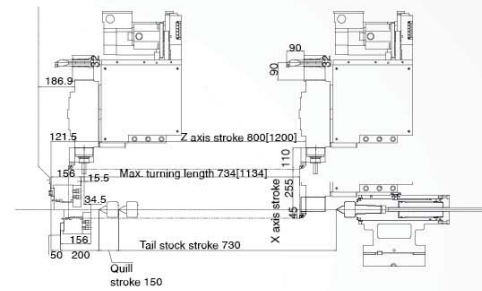
### LA-300 Working Range



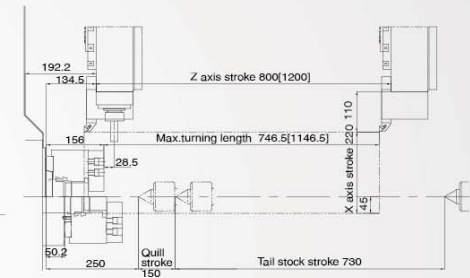
### LA-250[L] Working Range



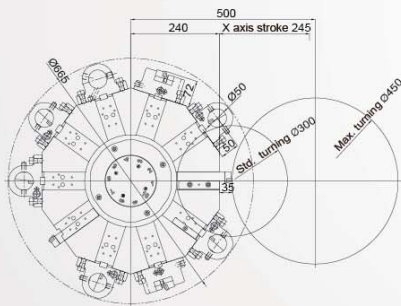
### LA-250M[L] Working Range



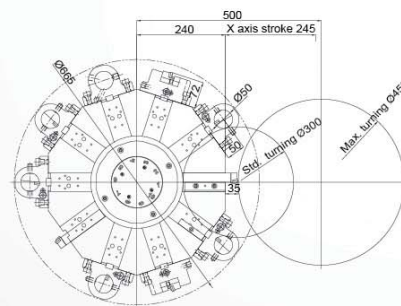
### LA-250Y[L] Working Range



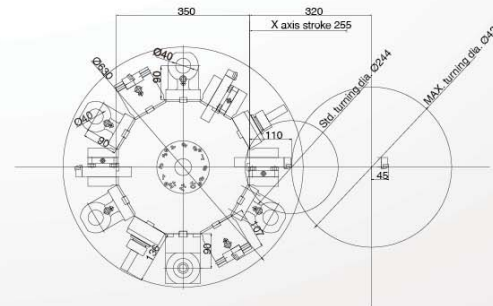
### LA-300 Interference Diagram (T10)



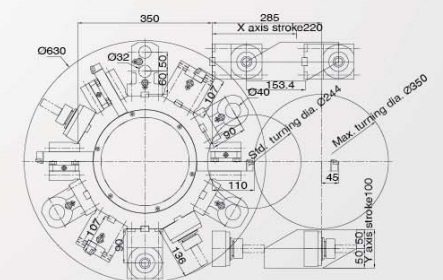
### LA-250[L] Interference Diagram (T10)



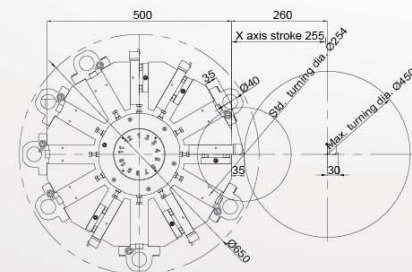
### LA-250M[L] Interference Diagram



### LA-250Y[L] Interference Diagram



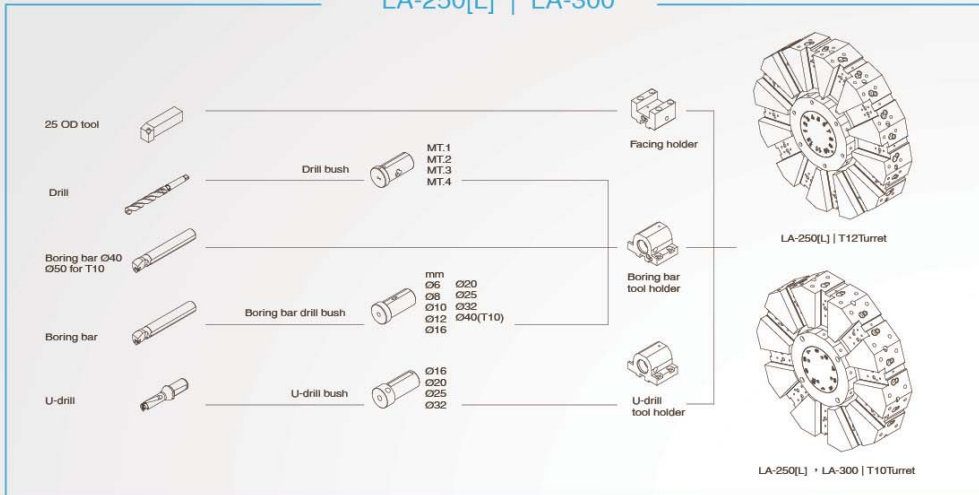
### LA-250[L] Interference Diagram (T12)



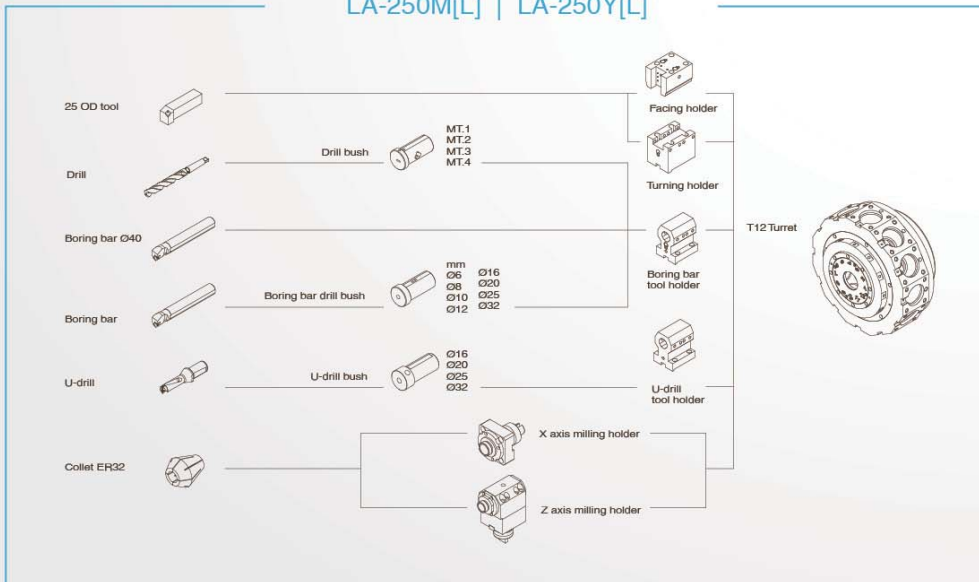


## Tooling system

LA-250[L] | LA-300



LA-250M[L] | LA-250Y[L]



## Specifications

# LA

### 250/300 SERIES

Remark1 : ( ) Option  
Remark2 : M : Milling Y : Y axis

Item	Unit	LA-250[L]	LA-250M[L]	LA-250Y[L]	LA-300
<b>Capacity</b>					
Max. swing	mm	580	580	580	580
Std. turning diameter	mm	300(T10)   254(T12)	244	244	300(T10)   254(T12)
Max. turning diameter	mm	450	420	350	450
Max. turning length	mm	765[1165]	734	746.5[1146.5]	1150
Max. bar work capacity	mm	75(90)	75	75	90
<b>Travel</b>					
X axis travel	mm	255	255	220	255
Z axis travel	mm	800[1200]	800[1200]	800[1200]	1200
Y axis travel	mm	---	---	±50	---
<b>Spindle</b>					
Spindle speed	rpm	3000(3500)	3000(3500)	3000(3500)	3000
Chuck size		10"	10"	10"	12"(15")
Spindle nose		A2-8	A2-8	A2-8	A2-8
Through hole diameter	mm	86(102)	86	86	102
Bearing diameter	mm	120(140)	120	120	140
<b>Turret</b>					
Number of tools		T10(T12)	T12	T12	T10
Turning tool shank	mm	25	25	25	25
Boring bar shank diameter	mm	T10(50)   T12(40)	40	40	50
Milling tool shank diameter	mm	---	20	20	---
<b>Tailstock</b>					
Tailstock travel	rpm	730[1130]	730[1130]	730[1130]	1050
Tailstock spindle diameter		110	110	110	110
Taper hole of tailstock spindle		MT.5	MT.5	MT.5	MT.5
Tailstock spindle travel	mm	150	150	150	150
<b>Feedrate</b>					
X axis rapid traverse rate	m/min	16	16	16	16
Z axis rapid traverse rate	m/min	20	20	20	20
Y axis rapid traverse rate	m/min	---	---	8	---
<b>Motor</b>					
Spindle drive motor	kW	15/18.5	15/18.5	15/18.5	18.5/22
Milling motor	kW	---	3.7/5.5	3.7/5.5	---
Turret index motor	kW	1.2	1.2	1.2	1.2
X axis drive motor	kW	1.8	1.8	2.5	1.8
Z axis drive motor	kW	2.5	2.5	2.5	2.5
Y axis drive motor	kW	---	---	2.5	---
<b>Size</b>					
Width	mm	2925[3682]	2925[3682]	2925[3682]	3682
Height	mm	1745	1815	2095	1870
Depth	mm	1953[1962]	1962	2027	1962
Weight	kg	4500[7450]	4550[7500]	6200[9300]	7500

※ Specifications are subject to change without notice.



## Standard and optional accessories

☆ : Standard accessories --- : NO ◎ : Optional accessories

Item	LA-250[L]	LA-250M[L]	LA-250Y[L]	LA-300
<b>Accessories</b>				
Variable speed spindle	☆	☆	☆	☆
Hi-low Gearbox Spindle	◎	◎	◎	◎
Built in spindle motor	---	---	---	---
Hydraulic servo turret	☆	☆	☆	☆
Hydraulic tailstock	☆	☆	☆	☆
Manual tailstock base	---	---	---	---
Manual PIN tailstock base	☆	☆	☆	☆
Automatic PIN tailstock base	◎	◎	◎	◎
Boring bar tool holder (4PCS)	☆	☆	☆	☆
U-drill tool holder (1PCS)	☆	☆	☆	☆
Angle type tool holder (1PCS)	☆	☆	☆	☆
OD tool holder(1PCS)	---	☆	☆	---
Boring bar bush ø6	☆	☆	☆	☆
Boring bar bush ø8	☆	☆	☆	☆
Boring bar bush ø10	☆	☆	☆	☆
Boring bar bush ø12	☆	☆	☆	☆
Boring bar bush ø16	☆	☆	☆	☆
Boring bar bush ø20	☆	☆	☆	☆
Boring bar bush ø25	☆	☆	☆	☆
Boring bar bush ø32	☆	☆	☆	☆
Boring bar bush ø40	☆(T10)(T12)	---	---	☆
U-drill bush ø16	☆	☆	☆	☆
U-drill bush ø20	☆	☆	☆	☆
U-drill bush ø25	☆	☆	☆	☆
U-drill bush ø32	☆	☆	☆	☆
U-drill bush ø40	☆	---	---	☆
Drill bush MT.1	◎	◎	◎	◎
Drill bush MT.2	◎	◎	◎	◎
Drill bush MT.3	◎	◎	◎	◎
Drill bush MT.4	◎	◎	◎	◎
X axis live tool holder (1PCS)	---	☆	☆	---
Z axis live tool holder (1PCS)	---	☆	☆	---
Hanger (2PCS)	◎	◎	◎	◎
Leveling pad	☆	☆	☆	☆
Wedge	☆	☆	☆	☆
Working lamp	☆	☆	☆	☆
Tool box	☆	☆	☆	☆
Operation manual	☆	☆	☆	☆
Hydraulic chuck	☆	☆	☆	☆
Foot switch	☆	☆	☆	☆

※ Specifications are subject to change without notice.

Item	LA-250	LA-250M[L]	LA-250Y[L]	LA-300
<b>Optional accessories</b>				
Chip conveyor & chip cart	◎	◎	◎	◎
Tool setter	◎	◎	◎	◎
Parts catcher	◎	◎	◎	◎
Parts conveyor	◎	◎	◎	◎
Barfeeder & Interface	◎	◎	◎	◎
Air blow	◎	◎	◎	◎
Automatic Power-off	◎	◎	◎	◎
Parts counter	◎	◎	◎	◎
Collet chuck	◎	◎	◎	◎
Manual steady rest	◎	◎	◎	◎
Hydraulic steady rest	◎	◎	◎	◎



Collet chuck



Rotating tail stock  
High thrust and clamping forces provide maximum stability especially when working with long workpieces.



Manual steady rest



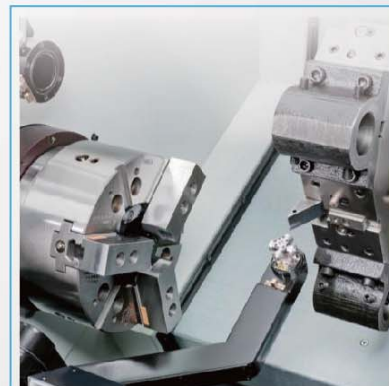
Oil mist collector

# LA

## 250/300 SERIES



Parts catcher



Tool setter