

ML

CE / EMC ISO 9001

ML

High Speed / Heavy Duty Precision Lathe

CE / EMC ISO 9001

Maximart®

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Maximart®

MAXIMART LATHE

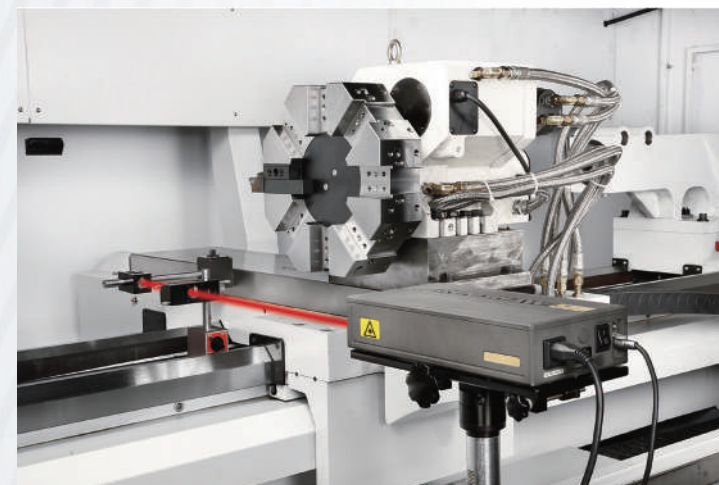
Rigorous Quality Inspection

MAXIMART Lathe is attentively designed and built to meet the highest quality standard, and rigorously inspected during manufacturing and prior to shipping.

Through these quality assurances, MAXIMART Lathe will exhibit outstanding accuracy, performance as well as maximum dependability for many long years.

MAIMART Pursues Quality Excellence

MAIMART Lathe has been fully satisfactory to all customers around the world. Such reputation results from our dedication to pursuing quality excellence.



Each machine is subject to comprehensive accuracy inspection prior to shipping.

Prompt Parts Delivery

When a machine leaves our factory, it is not the end of our business transaction. MAXIMART concerns about your machine operating condition all the time.

We always keep sufficient parts in stock for prompt delivery when the customers need the replacement parts. This will reduce machine downtime to a minimum.





Fagor

Digital ReadOut (Opt.)



Taiwan

ML 1840i

ML 1840 / 1860 / 1880

Height of Center: **230 mm**

Distance between centers: **1000 / 1500 / 2000 mm**

Spindle Bore	18 Step	Inverter Variable
Ø 58 mm	39 ~ 2800 rpm	33 ~ 3100 rpm

ML 2140 / 2160 / 2180 / 21120

Height of Center: **270 mm**

Distance between centers: **1000 / 1500 / 2000 / 3000 mm**

Spindle Bore	18 Step	Inverter Variable
Ø 85 mm	25 ~ 1545 rpm	27 ~ 2250 rpm
Ø 105 mm (opt.)	23 ~ 1293 rpm	20 ~ 1500 rpm

ML 2540 / 2560 / 2580 / 25120

Height of Center: **315 mm**

Distance between centers: **1000 / 1500 / 2000 / 3000 mm**

Spindle Bore	18 Step	Inverter Variable
Ø 85 mm	25 ~ 1545 rpm	27 ~ 2250 rpm
Ø 105 mm (opt.)	23 ~ 1293 rpm	20 ~ 1500 rpm
Ø 155 mm (opt.)	13 ~ 690 rpm	10 ~ 800 rpm



Conventional Type



Inverter drive type (i)



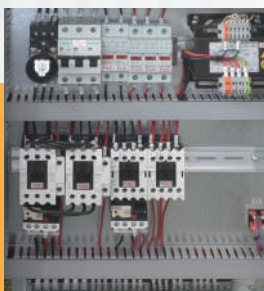
Chip & Coolant Shield
(CE Opt.)



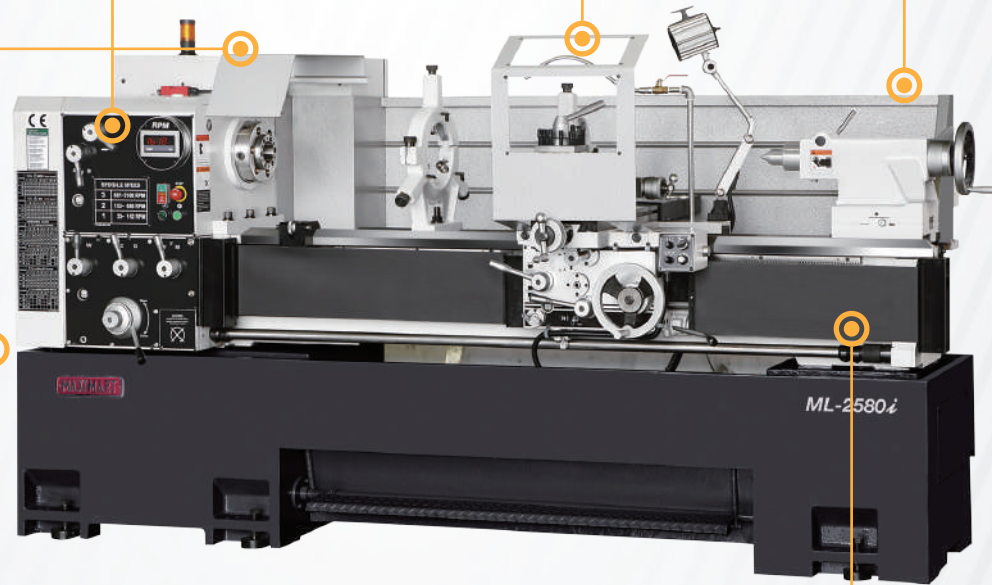
Full Length Splash Guard
(CE Opt.)



Chuck Guard
(CE Opt.)



CE Electrics comply
(CE Opt.)



ML 2580i
CE Conformity (Opt.)

Leadscrew guard
(CE Opt.)



Standard Accessories

- Center Sleeve 1 pc
- Dead Centers 2 pcs
- Main Drive Motor 1 set
- Coolant Equipment 1 set
- Tool box & Tools 1 set

CE Conformity including :

- Electrics comply with CE-regulations
- Chuck Guard
- Chip & Coolant shield
- Leadscrew Guard
- Full length Splash Guard



ML 3060 / 3080 / 30120 / 30160 / 30220 / 30240

Height of Center: **385 mm**

Distance between centers: **1600 / 2100/ 3100 / 4100 / 5100 / 6100 mm**

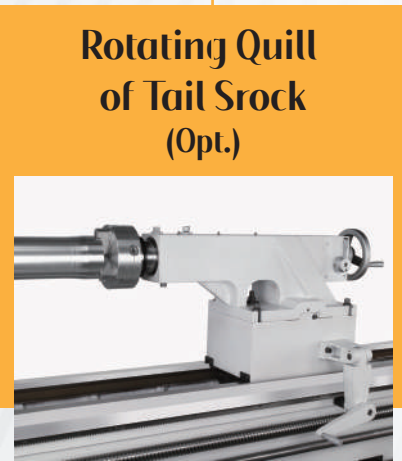
Spindle Bore	18 Step	Inverter Variable
Ø 105 mm	23 ~ 1293 rpm	20 ~ 1500 rpm
Ø 155 mm (opt.)	13 ~ 690 rpm	10 ~ 800 rpm

ML 3360 / 3380 / 33120 / 33160 / 33220 / 33240

Height of Center: **420 mm**

Distance between centers: **1600 / 2100/ 3100 / 4100 / 5100 / 6100 mm**

Spindle Bore	18 Step	Inverter Variable
Ø 105 mm	23 ~ 1293 rpm	20 ~ 1500rpm
Ø 155 mm (opt.)	13 ~ 690 rpm	10 ~ 800 rpm
Ø 230mm (opt.)	5 ~ 440 rpm	6 ~ 450 rpm
Ø 305mm (opt.)	-	5 ~ 350 rpm



Inverter Controlled Lathe for Greater Performance

US PAT. NO. 5,862,705

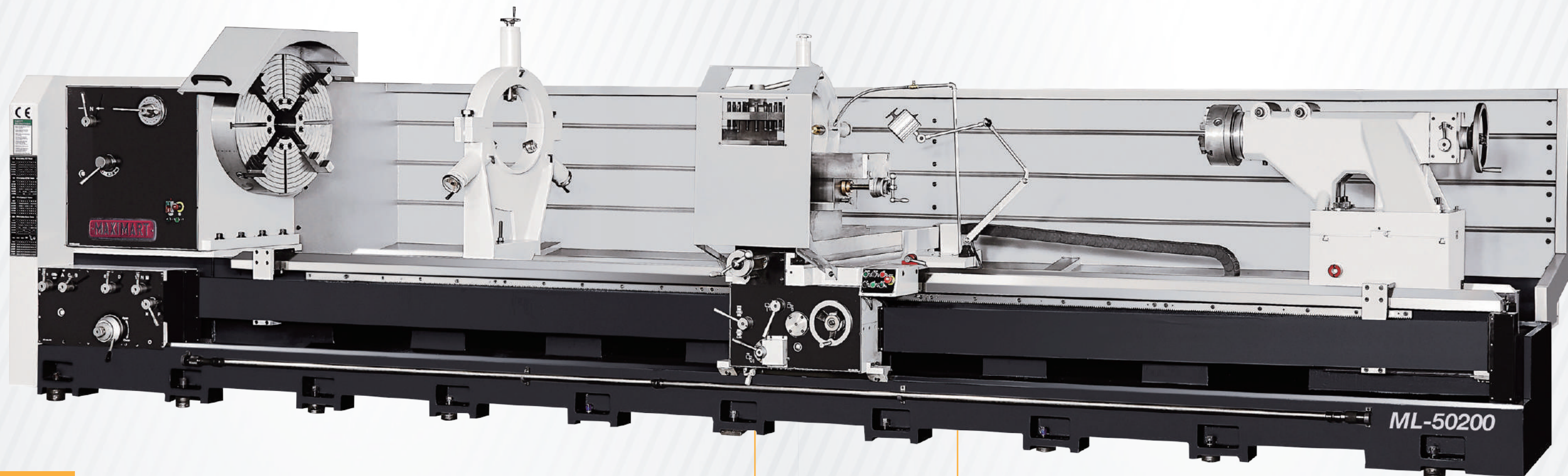
- Three range of spindle gear change combined with inverter drive variable speed output.
- Automatic speed change by inverter control.
- Turning process control is more convenient than that of conventional lathe.
- Spindle speed is displayed on the RPM meter.
- Stop braking is controlled by inverter for quick action.
- Constant spindle speed combines with the use of cross-slide lever for feeding, is similar to Constant Surface Speed(C.S.S.) function.

This function provides cutting accuracy and speed for side facing on around plate.

- When performing step turning by using automatic cross feed, the automatic speed change combined with cross feed will increase efficiency greatly.

Standard Accessories

- | | |
|------------------------------------|-------|
| ● Center Sleeve | 1 pc |
| ● Dead Centers | 2 pcs |
| ● Main Drive Motor | 1 set |
| ● Coolant Equipment | 1 set |
| ● Tool box & Tools | 1 set |
| ● X-axis / Z-axis rapid travel | 1 set |
| ● Magnetic Brake for Spindle Motor | 1 set |



ML 50200



Strong boxway design between cross-slide and saddle, which creates border contact surface to offer heavier cutting capacity (good for larger pitch threading) and durable servicing life also holding machine accuracy for much longer time.



Heavily Ribbed Sturdy Machine Structure

with extra wide bedways and rigid machine base, which offers fundamental strength and stability for larger swing lathe machine.

ML 4260 / 4280 / 42120 / 42160 / 42200 / 42240 / 42280 / 42320

Height of Center: **560 mm**

ML 5060 / 5080 / 50120 / 50160 / 50200 / 50240 / 50280 / 50320

Height of Center: **630 mm**

ML 6060 / 6080 / 60120 / 60160 / 60200 / 60240 / 60280 / 60320

Height of Center: **750 mm**

Distance between centers: **1700 / 2200 / 3200 / 4200 / 5200 / 6200 / 7200 / 8200 mm**

Spindle Bore	18 Step	Inverter Variable
Ø 155 mm	5 ~ 615 rpm	7 ~ 710 rpm
Ø 230mm (opt.)	4 ~ 430 rpm	6 ~ 500 rpm
Ø 305mm (opt.)	2 ~ 390 rpm	5 ~ 350 rpm

Standard Accessories

- Main Drive Motor 1 set
- Coolant Equipment 1 set
- Magnetic Brake for Spindle Motor 1 set
- Six way rapid travel 1 set
(including compound tool post)
- Center Sleeve 1 set
- Dead Centers 2 pcs
- Tool Box & Tools 1 set

Ultimate Structure Assures The Highest Stability

Massive Bed

- The box type bed is heavily constructed in combination with extra wide bed ways, resulting in increased structural rigidity and machining stability.
- Bed ways are hardened and precisely ground for high wear-resistance.

Superbly Designed Structure

- The bed and machine base are manufactured from high quality cast iron, tempered to relieve stress without deformation year after year.
- The bed interior is scientifically rib-reinforced to dampen vibration and reduce deformation.

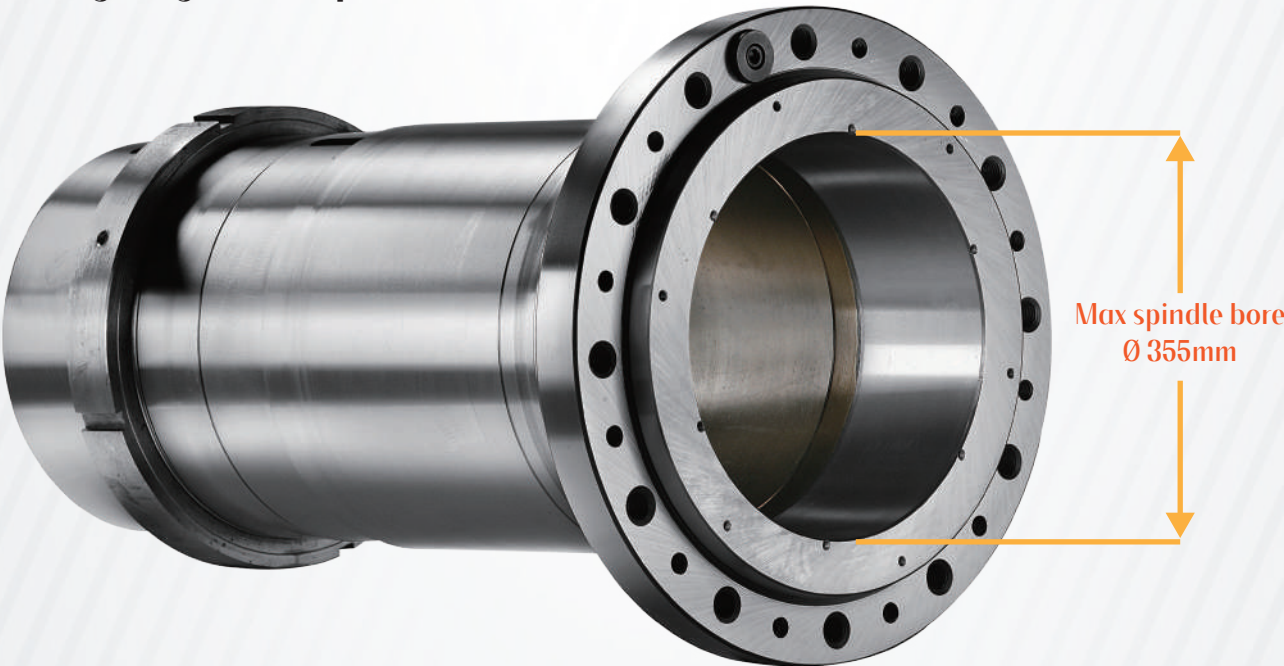
Oversized Bed

- The extra wide bed is a box type construction combined with large span between slide ways for increased rigidity while minimizing vibration and tool chattering when performing heavy cutting.
- Bed slideways are hardened and precisely-ground for smooth movement of the carriage.



Ø 355mm Extra Large Spindle Bore

The specially designed extra large spindle bore is suitable for cutting larger workpiece.



Rigid Headstock

- The headstock is ruggedly constructed for ultra-high stability when performing heavy cutting.
- The all-gear heartstack provides a wide range of spindle speeds to suit various cutting requirements.
- All gears in the headstock quality are manufactured from high quality alloy steel (SCM-21), carburized and precisely-ground to assure maximum smoothness and quietness during running.

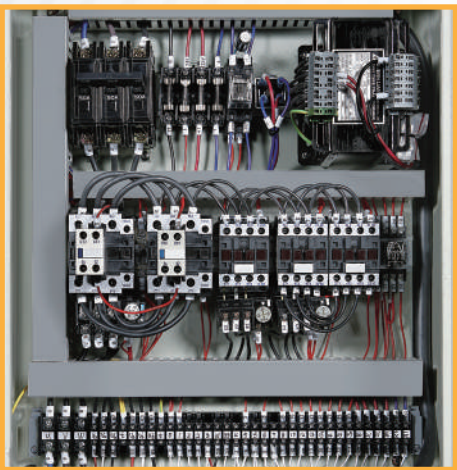
Oil-Bath Device in Headstock

- The headstock employs a combination of forced lubrication and oil-bath device to achieve better lubrication effect.



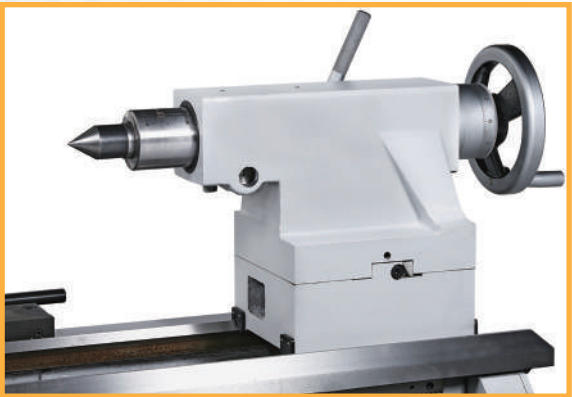
Conveniently Operated Gear Box

- Operations such as speed change, feed rate selection and inch/metric threading can be performed conveniently without need to change gear.
- Feed rate selection and threading are easily accomplished by simply shifting three levers and one rotary dial.
- The gear box is oil-bath lubricated to ensure smooth running at all times.



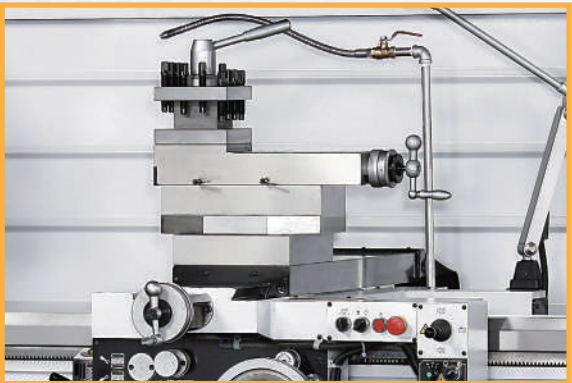
Well Engineered Electrical Cabinet

- The electrical cabinet is attentively designed and deployed, allowing for easy access for trouble shooting and maintenance of electrical / electronic components.
- All electrical / electronic components are tested for dependable control performance.
- Low voltage control system avoids danger to the operator in case of electric shock.
- All electrics comply with CE-regulations(opt.)



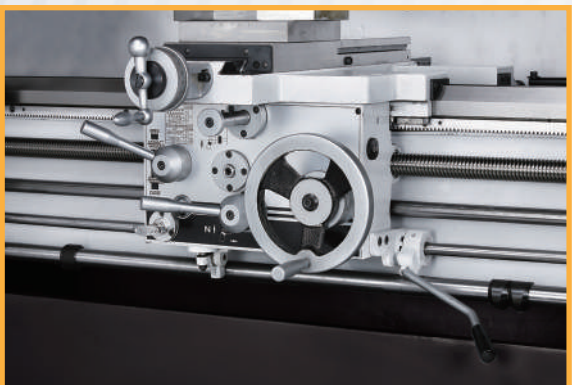
Ruggedly Constructed Tailstock

- The rugged and compact tailstock is easy to move along the bed ways and clamped in position.
- The tailstock quill is hardened, precisely-ground and graduated in inch and metric scales
- Accurate tailstock contribute to precision turning and drilling.



Compound Tool Post


- The compound tool post is mounted on top of the cross slide.
- The slideways of carriage and saddle are hardened and precisely ground for outstanding wear resistance.
- A hand lubricator is equipped for lubricating longitudinal and cross slideways.



Apron

- The apron has an interlock device to eliminate the problem of simultaneous power feeding and thread cutting.
- The apron forms an oil reservoir for oil-bath lubrication for all gears in the apron.

Optional Accessories




Steady Rest

- The steady rest is used for supporting a workpiece, that effectively prevents the workpiece from springing or bending.
- The jaws of steady rest can be adjusted, allowing the workpiece to be supported at a correct position.




Follow Rest

- The follow rest is mounted to the saddle, and moves together with the saddle for holding the workpiece.
- The follow rest may prevent a workpiece from springing away from the point of the cutting tool.




3-Jaw Scroll Chuck

- The 3 jaws move in and out simultaneously for quickly clamping a workpiece
- Choice of various diameter of chucks depending on the lathe model



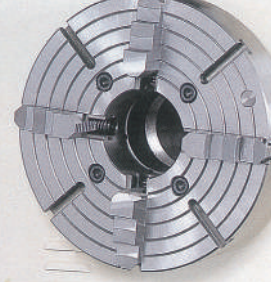
4-Jaw Independent Chuck

- The 4-jaw independent chuck is used for clamping workpieces w/ irregular shapes.
- Each jaw is adjusted independently.
- The 4-jaws are reversible for gripping the inside or outside of a workpiece.
- Choice of various diameter of chucks depending on lathe model.



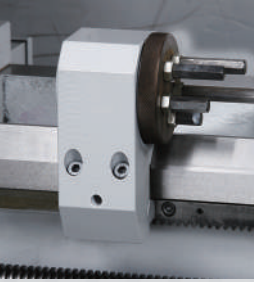
Face Plate

- In case an irregularly shaped workpiece can not be clamped by a chuck, then the face plate should be applied for holding such workpiece.



Dual Chuck System

- Upon customer's request, an additional chuck can be mounted at the rear end of the spindle.
- The dual chuck system is available only for a lathe with spindle bore diameter bigger than 105mm.
- With the dual chuck system, a long workpiece can be clamped at two positions for increasing the stability of the workpiece.



Turret type 5-position

- The turret type 5-position bed stopper is mounted on the bed ways.
- Equipped with 5 adjustable reference-screws for conveniently setting stop position.



Taper Attachment

- The taper attachment is mounted on the back side of the bed, which can be adjusted along the bed to meet the machining requirement.
- For taper turning application.

Optional Accessories



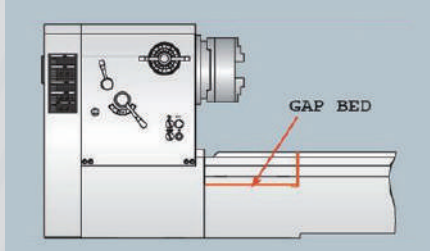
Micrometer Bed Stopper

- The micrometer bed stopper is mounted on the bed.
- This stopper provides increased convenience in case workpiece machining requires correct shoulder length



Quick Change Tool Post

- The quick change tool post is equipped with a clamping lever for convenient fixing. It holds only one tool.
- Tool post with tool can be changed simultaneously to eliminate troublesome tool setting.



Gap Bed

- The gap bed is a segment of bed, which can be removed to increase swing capacity.



Rotating Quill of Tailstock

- The rotating quill provides an increase in loading capacity
- Especially ideal for holding long workpiece



Chip and Coolant Shield

- The see-thru chips and coolant shield is mounted at the front of the saddle. It prevents operator from damage due to chips and coolant splashing.

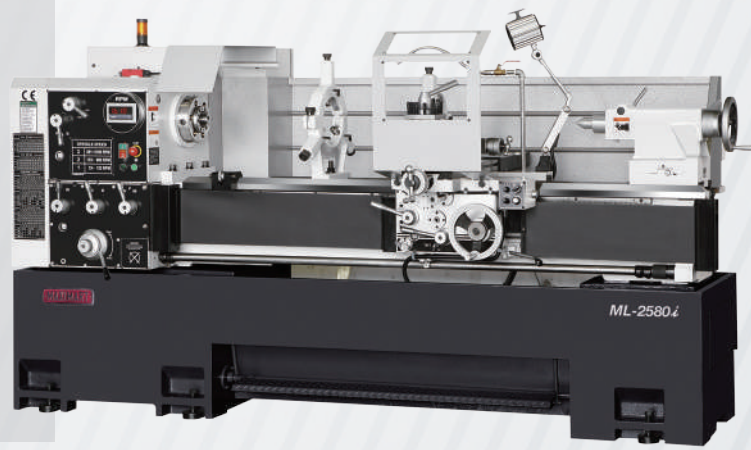


Chuck Guard

- The chuck guard is mounted over the chuck, providing a safety protection during cutting.
- Auto power off in case the chuck guard is opened.



Work Light



SPECIFICATION

Conventional Type / Inverter Type (i)			
Model	ML-1720(i)	ML-1730(i)	ML-1740(i)
Capacity			
Center Height	230 mm		
Swing over bed	460 mm		
Swing over gap	630 mm*		
Swing over cross slide	285 mm		
Distance between center	550 mm	750 mm	1000 mm
Bed width	300 mm		
Spindle			
Spindle bore	Ø58 mm (2")		
Spindle nose	A1-6		
Spindle speed 12 steps	20 ~ 2000 rpm		
Inverter type (i) - Variable speed	H: 215 ~ 2500 rpm L: 22 ~ 214 rpm		
Travel			
Cross slide travel	250 mm		
Compound rest travel	120 mm		
Tailstock			
Tailstock spindle dia.	58 mm		
Tailstock spindle travel	150 mm		
Tailstock spindle taper	MT#4		
Threads			
Lead screw	4 TPI or 6 mm / pitch		
Metric pitch threads	0.5 - 7 mm / pitch (24 kinds)		
Inch pitch threads	4 - 56 TPI (36 kinds)		
Module pitch threads	0.25 - 3.5 M (28 kinds)		
DP threads	8 - 112 P (36 kinds)		
Feeding Range			
Range of longitudinal feeds	0.05 - 0.88 mm / rev.		
Range of cross feeds	0.02 - 0.44 mm / rev.		
Motor			
Main spindle motor	5 HP		
Coolant pump motor	1/8 HP		
Weight			
Net weight	1500 kg	1650 kg	1800 kg

* Optional Above specification are subject to change without notice.

SPECIFICATION

Conventional Type / Inverter Type (i)			
Model	ML-1840(i)	ML-1860(i)	ML-1880(i)
Capacity			
Center Height	230 mm		
Swing over bed	460 mm		
Swing over gap	640 mm*		
Swing over cross slide	285 mm		
Distance between center	1000 mm	1500 mm	2000 mm
Bed width	350 mm		
Spindle			
Spindle bore	Ø58 mm (2")		
Spindle nose	D1-6		
Spindle speed 18 steps	39 ~ 2800 rpm		
Inverter type (i) - Variable speed	H: 681 ~ 3100 rpm M: 153 ~ 680 rpm L: 33 ~ 152 rpm		
Travel			
Cross slide travel	280 mm		
Compound rest travel	120 mm		
Tailstock			
Tailstock spindle dia.	75 mm		
Tailstock spindle travel	170 mm		
Tailstock spindle taper	MT#5		
Threads			
Lead screw	4 TPI or 6 mm / pitch		
Metric pitch threads	0.5 - 7 mm / pitch (24 kinds)		
Inch pitch threads	4 - 56 TPI (36 kinds)		
Module pitch threads	0.25 - 3.5 M (28 kinds)		
DP threads	8 - 112 P (36 kinds)		
Feeding Range			
Range of longitudinal feeds	0.06 - 0.88 mm / rev.		
Range of cross feeds	0.03 - 0.44 mm / rev.		
Motor			
Main spindle motor	7.5 HP / 10 HP*		
Coolant pump motor	1/8 HP		
Weight			
Net weight	2000 kg	2250 kg	2500 kg

*Optional Above specification are subject to change without notice.

Standard Accessories

- Main Drive Motor 1 set
- Coolant Equipment 1 set
- Center Sleeve 1 pc
- Dead Centers 2 pcs
- Tool Box & Tools 1 set

Optional Accessories

- CE conformity
- Electromagnetic braker
- Gap bed
- Z-axis rapid travel
- Digital readout system
- 3-jaw scroll chuck
- 4-jaw independent chuck
- Face plate
- Quick change toolpost
- Taper attachment
- Full length splash guard
- Chuck guard
- Chip and coolant shield
- Leadscrew guard
- Work light
- Steady rest
- Follow rest
- Micrometer bed stopper
- Turret type 5 position bed stopper
- Rotating center

Standard Accessories

- Main Drive Motor 1 set
- Coolant Equipment 1 set
- Center Sleeve 1 pc
- Dead Centers 2 pcs
- Tool Box & Tools 1 set

Optional Accessories

- CE conformity
- Electromagnetic braker
- Gap bed
- Z-axis rapid travel
- Digital readout system
- 3-jaw scroll chuck
- 4-jaw independent chuck
- Face plate
- Quick change toolpost
- Taper attachment
- Full length splash guard
- Chuck guard
- Chip and coolant shield
- Leadscrew guard
- Work light
- Steady rest
- Follow rest
- Micrometer bed stopper
- Turret type 5 position bed stopper
- Rotating center

SPECIFICATION

Model	ML-2140(i)	ML-2160(i)	ML-2180(i)	ML-21120(i)
Capacity				
Center Height	270 mm			
Swing over bed	540 mm			
Swing over gap	720 mm*			
Swing over cross slide	360 mm			
Distance between center	1000 mm	1500 mm	2000 mm	3000 mm
Bed width	350 mm			
Spindle				
Spindle bore	Ø85 mm (3")		Ø105 mm (4")*	
Spindle nose	D1-8		A1-11	
Spindle speed 18 steps	25 ~ 1545 rpm		23 ~ 1293 rpm	
Inverter type (i) - Variable speed	H: 491 ~ 2250 rpm M: 126 ~ 490 rpm L: 27 ~ 125 rpm		H: 331 ~ 1500 rpm M: 93 ~ 330 rpm L: 20 ~ 92 rpm	
Travel				
Cross slide travel	330 mm			
Compound rest travel	150 mm			
Tailstock				
Tailstock spindle dia.	75 mm			
Tailstock spindle travel	170 mm			
Tailstock spindle taper	MT#5			
Threads				
Lead screw	4 TPI or 6 mm / pitch			
Metric pitch threads	0.5 - 7 mm / pitch (24 kinds)			
Inch pitch threads	4 - 56 TPI (36 kinds)			
Module pitch threads	0.25 - 3.5 M (16 kinds)			
DP threads	8 - 112 P (36 kinds)			
Feeding Range				
Range of longitudinal feeds	0.06 - 0.88 mm / rev.			
Range of cross feeds	0.03 - 0.44 mm / rev.			
Motor				
Main spindle motor	10 HP / 15 HP*			
Coolant pump motor	1/8 HP			
Weight				
Net weight	2200 kg	2450 kg	2600 kg	2700 kg

*Optional

Above specification are subject to change without notice.

Conventional Type / Inverter Type (i)

ML-2540(i)	ML-2560(i)	ML-2580(i)	ML-25120(i)
315 mm			
630 mm			
810 mm*			
450 mm			
1000 mm	1500 mm	2000 mm	3000 mm
350 mm			
Ø85 mm (3")	Ø105 mm (4")*	Ø155 mm (6")*	
D1-8	A1-11	A2-11	
25 ~ 1545 rpm	23 ~ 1293 rpm	13 ~ 690 rpm	
H: 491 ~ 2250 rpm M: 126 ~ 490 rpm L: 27 ~ 125 rpm	H: 331 ~ 1500 rpm M: 93 ~ 330 rpm L: 20 ~ 92 rpm	H: 176 ~ 800 rpm M: 53 ~ 175 rpm L: 10 ~ 52 rpm	
330 mm			
150 mm			
75 mm			
170 mm			
MT#5			
4 TPI or 6 mm / pitch			
0.5 - 7 mm / pitch (24 kinds)			
4 - 56 TPI (36 kinds)			
0.25 - 3.5 M (16 kinds)			
8 - 112 P (36 kinds)			
0.06 - 0.88 mm / rev.			
0.03 - 0.44 mm / rev.			
10 HP / 15 HP*			
1/8 HP			
2300 kg	2550 kg	2700 kg	2800 kg

*Optional

Above specification are subject to change without notice.

Standard Accessories

- Main Drive Motor1 set
- Coolant Equipment1 set
- Center Sleeve1 pc
- Dead Centers2 pcs
- Tool Box & Tools1 set

Optional Accessories

- CE conformity
- Electromagnetic braker
- Gap bed
- Z-axis rapid travel
- Digital readout system
- 3-jaw scroll chuck
- Double Chuck System
- 4-jaw independent chuck
- Face plate
- Quick change toolpost
- Taper attachment
- Full length splash guard
- Chuck guard
- Chip and coolant shield
- Leadscrew guard
- Work light
- Steady rest
- Follow rest
- Micrometer bed stopper
- Turret type 5 position
bed stopper
- Rotating center

SPECIFICATION

Model	ML-3060(i)	ML-3080(i)	ML-30120(i)	ML-30160(i)	ML-30200(i)	ML-30240(i)
Capacity						
Center Height	385 mm					
Swing over bed	770 mm					
Swing over gap	1010 mm*					
Swing over cross slide	520 mm					
Distance between center	1600 mm	2100 mm	3100 mm	4100 mm	5100 mm	6100 mm
Bed width	450 mm					
Spindle						
Spindle bore	Ø105 mm (4")			Ø155 mm (6")*		
Spindle nose	A1-11			A2-11		
Spindle speed 18 steps	23 ~ 1293 rpm			13 ~ 690 rpm		
Inverter type (i) - Variable speed	H: 331 ~ 1500 rpm M: 93 ~ 330 rpm L: 20 ~ 92 rpm			H: 176 ~ 800 rpm M: 53 ~ 175 rpm L: 10 ~ 52 rpm		
Travel						
Cross slide travel	450 mm					
Compound rest travel	250 mm					
Tailstock						
Tailstock spindle dia.	105 mm / 120 mm*					
Tailstock spindle travel	220 mm					
Tailstock spindle taper	MT#5 / MT#6 (opt.)					
Threads						
Lead screw	2 TPI or 12 mm / pitch					
Metric pitch threads	0.8 - 14 mm / pitch (65 kinds)					
Inch pitch threads	2 - 28 TPI (36 kinds)					
Module pitch threads	0.5 - 7 M (22 kinds)					
DP threads	4 - 56 P (36 kinds)					
Feeding Range						
Range of longitudinal feeds	0.05 - 0.70 mm / rev.					
Range of cross feeds	0.025 - 0.35 mm / rev.					
Motor						
Main spindle motor	15 HP / 20 HP*					
Rapid feed motor	1/4 HP					
Coolant pump motor	1/8 HP					
Weight						
Net weight	3350 kg	3600 kg	4100 kg	4600 kg	5100 kg	5700 kg

* Optional Above specification are subject to change without notice.

Conventional Type / Inverter Type (i)					
ML-3360(i)	ML-3380(i)	ML-33120(i)	ML-33160(i)	ML-33200(i)	ML-33240(i)
420 mm					
840 mm					
1080 mm*					
590 mm					
1600 mm	2100 mm	3100 mm	4100 mm	5100 mm	6100 mm
450 mm					
Ø105 mm (4")	Ø155 mm (6")*	Ø230 mm (9")*		Ø305 mm (12")*	
A1-11	A2-11	A2-15		A2-20	
23 ~ 1293 rpm	13 ~ 690 rpm	5 ~ 440 rpm		-	
H: 331 ~ 1500 rpm M: 93 ~ 330 rpm L: 20 ~ 92 rpm	H: 176 ~ 800 rpm M: 53 ~ 175 rpm L: 10 ~ 52 rpm	H: 108 ~ 450 rpm M: 31 ~ 107 rpm L: 6 ~ 30 rpm	H: 80 ~ 350 rpm M: 53 ~ 79 rpm L: 5 ~ 17 rpm		
450 mm					
250 mm					
105 mm / 120 mm (opt.)					
220 mm					
MT#5 / MT#6 (opt.)					
2 TPI or 12 mm / pitch					
0.8 - 14 mm / pitch (65 kinds)					
2 - 28 TPI (36 kinds)					
0.5 - 7 M (22 kinds)					
4 - 56 P (36 kinds)					
0.05 - 0.70 mm / rev.					
0.025 - 0.35 mm / rev.					
15 HP / 20 HP* / 25 HP*					
1/4 HP					
1/8 HP					
3350 kg	3600 kg	4100 kg	4600 kg	5100 kg	5700 kg

* Optional Above specification are subject to change without notice.

Standard Accessories

- Main Drive Motor 1 set
- Coolant Equipment 1 set
- Electromagnetic braker 1 set
- X/Z axis rapid travel 1 set
- Center Sleeve 1 pc
- Dead Centers 2 pcs
- Tool Box & Tools 1 set

Optional Accessories

- CE conformity
- Gap bed
- Digital readout system
- 3-jaw scroll chuck
- Double Chuck System
- 4-jaw independent chuck
- Face plate
- Quick change toolpost
- Taper attachment
- Full length splash guard
- Moving rear splash guard
- Chuck guard
- Chip and coolant shield
- Leadscrew guard
- Work light
- Steady rest
- Follow rest
- Micrometer bed stopper
- Turret type 5 position bed stopper
- Rotating center

SPECIFICATION

Model	ML-4260(i)	ML-4280(i)	ML-42120(i)	ML-42160(i)	ML-42200(i)	ML-42240(i)	ML-42280(i)
Capacity							
Center Height	565 mm						
Swing over bed	1070 mm						
Swing over gap	1520 mm *						
Swing over cross slide	744 mm						
Distance between center	1700 mm	2200 mm	3200 mm	4200 mm	5200 mm	6200 mm	7200 mm
Bed width	625 mm						
Spindle							
Spindle bore	Ø155 mm (6")			Ø230 mm (9")*			
Spindle nose	A2-11			A2-15			
Spindle speed 18 steps	5 ~ 615 rpm			4 ~ 430 rpm			
Inverter type (i) - Variable speed	H: 188 ~ 710 rpm M: 40 ~ 187 rpm L: 7 ~ 39 rpm			H: 116 ~ 500 rpm M: 31 ~ 115 rpm L: 6 ~ 30 rpm			
Travel							
Cross slide travel	700 mm						
Compound rest travel	380 mm						
Tailstock							
Tailstock spindle dia.	165 mm						
Tailstock spindle travel	300 mm						
Tailstock spindle taper	MT#6						
Threads							
Lead screw	2 TPI or 12 mm / pitch						
Metric pitch threads	1 - 30 mm / pitch (43 kinds)						
Inch pitch threads	30 - 1 TPI (50 kinds)						
Module pitch threads	0.5 - 15 M (22 kinds)						
DP threads	2 - 60 P (50 kinds)						
Feeding Range							
Range of longitudinal feeds	0.07 - 2.03 mm / rev.						
Range of cross feeds	0.028 - 0.81 mm / rev.						
Motor							
Main spindle motor	20 HP / 25 HP* / 30 HP*						
Rapid feed motor	3/4 HP						
Coolant pump motor	1/4 HP						
Weight							
Net weight	6600 kg	7000 kg	7800 kg	8600 kg	9200 kg	10000 kg	11300 kg

* Optional Above specification are subject to change without notice.

Conventional Type / Inverter Type (i)						
ML-5060(i)	ML-5080(i)	ML-50120(i)	ML-50160(i)	ML-50200(i)	ML-50240(i)	ML-50280(i)
665 mm						
1270 mm						
1720 mm *						
944 mm						
1700 mm	2200 mm	3200 mm	4200 mm	5200 mm	6200 mm	7200 mm
625 mm						
Ø155 mm (6")		Ø230 mm (9")*		Ø305 mm (12")*		
A2-11		A2-15		A2-20		
5 ~ 615 rpm		4 ~ 430 rpm		2 ~ 390 rpm		
H: 188 ~ 710 rpm M: 40 ~ 187 rpm L: 7 ~ 39 rpm		H: 116 ~ 500 rpm M: 31 ~ 115 rpm L: 6 ~ 30 rpm		H: 87 ~ 350 rpm M: 26 ~ 86 rpm L: 5 ~ 25 rpm		
700 mm						
380 mm						
165 mm						
300 mm						
MT#6						
2 TPI or 12 mm / pitch						
1 - 30 mm / pitch (43 kinds)						
30 - 1 TPI (50 kinds)						
0.5 - 15 M (22 kinds)						
2 - 60 P (50 kinds)						
0.07 - 2.03 mm / rev.						
0.028 - 0.81 mm / rev.						
20 HP / 25 HP* / 30 HP*						
3/4 HP						
1/4 HP						
6900 kg	7300 kg	8100 kg	8900 kg	9700 kg	10500 kg	11300 kg
Optional			Above specification are subject to change without notice			

* Optional Above specification are subject to change without notice.

- Standard Accessories
- Main Drive Motor 1 set
 - Coolant Equipment 1 set
 - Electromagnetic braker 1 set
 - 6-way rapid travel 1 set
 - Center Sleeve 1 pc
 - Dead Centers 2 pcs
 - Tool Box & Tools 1 set

- Optional Accessories
- CE conformity
 - Gap bed
 - Digital readout system
 - 3-jaw scroll chuck
 - Double Chuck System
 - 4-jaw independent chuck
 - Face plate
 - Quick change toolpost
 - Taper attachment
 - Full length splash guard
 - Moving rear splash guard
 - Chuck guard
 - Chip and coolant shield
 - Leadscrew guard
 - Work light
 - Steady rest
 - Follow rest
 - Rotating center

SPECIFICATION

Model	ML-6060(i)	ML-6080(i)	ML-60120(i)	ML-60160(i)	ML-60200(i)	ML-60240(i)	ML-60280(i)
Capacity							
Center Height	750 mm						
Swing over bed	1500 mm						
Swing over gap	1950 mm *						
Swing over cross slide	1100 mm						
Distance between center	1700 mm	2200 mm	3200 mm	4200 mm	5200 mm	6200 mm	7200 mm
Bed width	625 mm						
Spindle							
Spindle bore	Ø155 mm (6")		Ø230 mm (9")*		Ø305 mm (12")*		
Spindle nose	A2-11		A2-15		A2-20		
Spindle speed 18 steps	5 ~ 615 rpm		4 ~ 430 rpm		2 ~ 390 rpm		
Inverter type (i) - Variable speed	H: 188 ~ 710 rpm M: 40 ~ 187 rpm L: 7 ~ 39 rpm		H: 116 ~ 500 rpm M: 31 ~ 115 rpm L: 6 ~ 30 rpm		H: 87 ~ 350 rpm M: 26 ~ 86 rpm L: 5 ~ 25 rpm		
Travel							
Cross slide travel	700 mm						
Compound rest travel	380 mm						
Tailstock							
Tailstock spindle dia.	165 mm						
Tailstock spindle travel	300 mm						
Tailstock spindle taper	MT#6						
Threads							
Lead screw	2 TPI or 12 mm / pitch						
Metric pitch threads	1 - 30 mm / pitch (43 kinds)						
Inch pitch threads	30 - 1 TPI (50 kinds)						
Module pitch threads	0.5 - 15 M (34 kinds)						
DP threads	60 - 2 TPI (50 kinds)						
Feeding Range							
Range of longitudinal feeds	0.07 - 2.03 mm / rev.						
Range of cross feeds	0.028 - 0.81 mm / rev.						
Motor							
Main spindle motor	20 HP / 25 HP* / 30 HP*						
Rapid feed motor	3/4 HP						
Coolant pump motor	1/4 HP						
Weight							
Net weight	7400 kg	7800 kg	8600 kg	9400 kg	10200 kg	11000 kg	11800 kg

* Optional

Above specification are subject to change without notice.

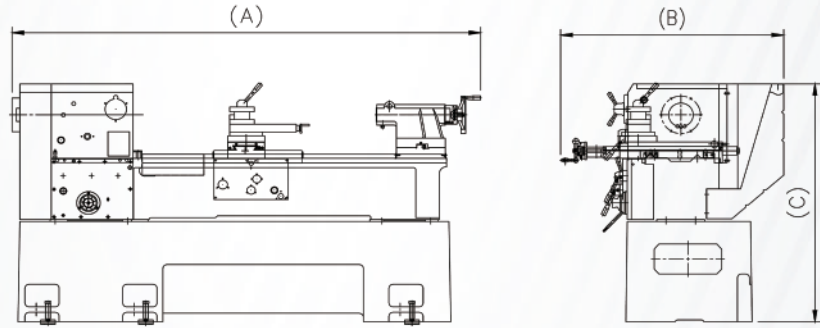
Standard Accessories

- Main Drive Motor1 set
- Coolant Equipment1 set
- Magnetic Brake1 set
- 6-way rapid travel1 set
- Center Sleeve1 pc
- Dead Center2 pcs
- Tool Box & Tools1 set

Optional Accessories

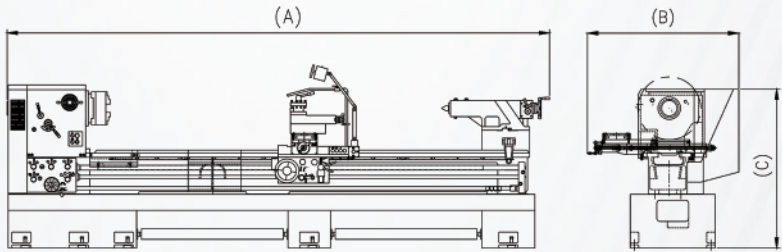
- CE conformity
- Gap bed
- Digital readout system
- 3-jaw scroll chuck
- Double Chuck System
- 4-jaw independent chuck
- Face plate 4-jaw chuck
- Taper attachment
- Full length splash guard
- Moving rear splash guard
- Chuck guard
- Chip and coolant shield
- Leadscrew guard
- Work light
- Steady rest
- Follow rest
- Rotating center

Dimensions



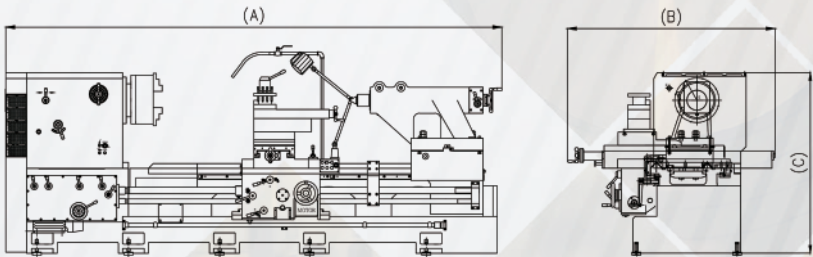
ML 17.18.21.25

Model	1720	1730	1740	1840	1860	1880	2140	2160	2180	21120	2540	2560	2580	25120
Spindle Bore	58	58	58	58	58	58	85 105	85 105	85 105	85 105	85 105	85 105	85 105	85 105
A	1825	2025	2190	2385	2885	3385	2390	2890	3390	4390	2390	2890	3390	4390
B	830	830	830	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
C	1240	1240	1205	1390	1390	1390	1430 1450	1430 1450	1430 1450	1430 1450	1470 1490	1470 1490	1470 1490	1470 1490



ML 30.33

Model	3060	3080	30120	30160	30200	30240	3360	3380	33120	33160	33200	33240
A	3650	4150	5150	6150	7150	8150	3650	4150	5150	6150	7150	8150
B	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590
C	1460	1460	1460	1460	1460	1460	1495	1495	1495	1495	1495	1495



ML 42.50.60

Model	4260 5060 6060	4280 5080 6080	42120 50120 60120	42160 50160 60160	42200 50200 60200	42240 50240 60240	42280 50280 60280
A	4100	4600	5600	6600	7600	8600	9600
B	1730	1730	1730	1730	1730	1730	1730
C	1500 1600 1730	1500 1600 1730	1500 1600 1730	1500 1600 1730	1500 1600 1730	1500 1600 1730	1500 1600 1730