

MANUAL LATHE

 Intelligent

 Technology



MANUAL LATHE / CONTENTS /

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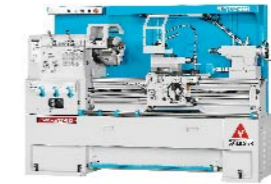
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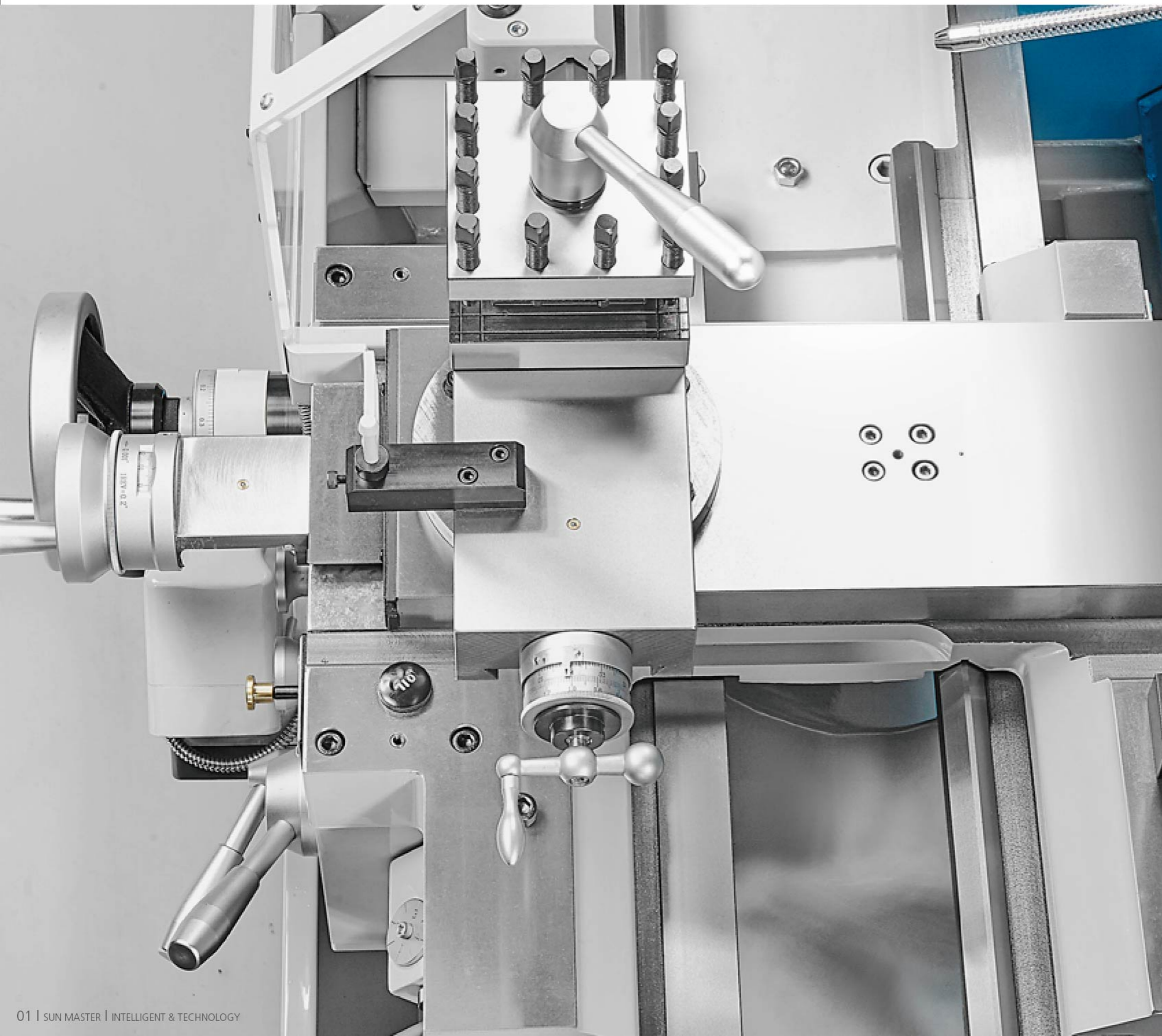


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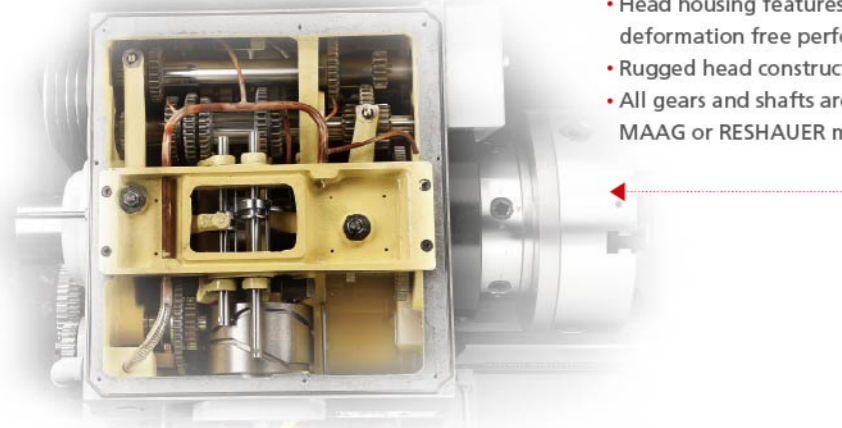


Features

- Nylon safety gears in end train.
- Shear pin in lead screw.
- Low voltage control in electrical cabinet.

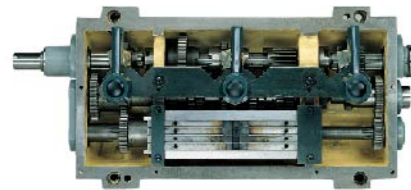
RUGGED HEADSTOCK

- Head housing features outstanding vibration dampening and deformation free performance.
- Rugged head construction gives extra rigidity and heavy cutting.
- All gears and shafts are hardened and precision ground by MAAG or RESHAUER machines.

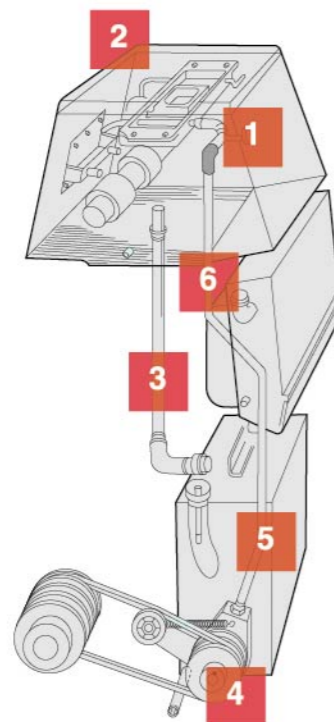


GEAR BOX

- The universal type gear box provides a wide range of inch, metric, M.P. and D.P. threads without changing any gear for increased convenience.
- Gears are hardened.
- Oil bath lubrication in gear box.



FORCED LUBRICATION IN HEADSTOCK



- Oil sight window for checking oil level
- Pressure lubrication system in headstock ensures better lubrication and cooling effect.
- Hot oil return
- Oil pump
- Oil reservoir
- Cooling oil inlet

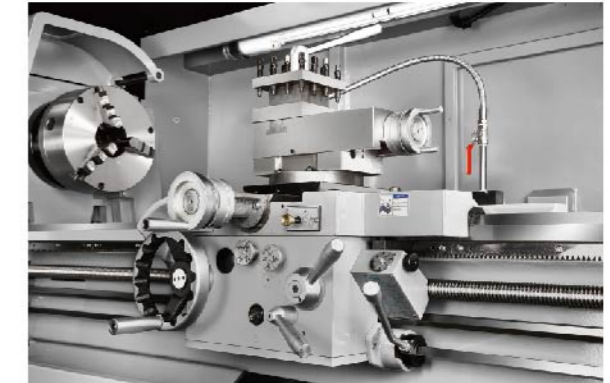


HEAVY DUTY SPINDLE

- Camlock type spindle.
- Precision machined from forged alloy steel, hardened, precision ground and dynamically balanced.
- Three point support by high precision taper roller and ball bearings eliminates chatter when performing heavy cut.

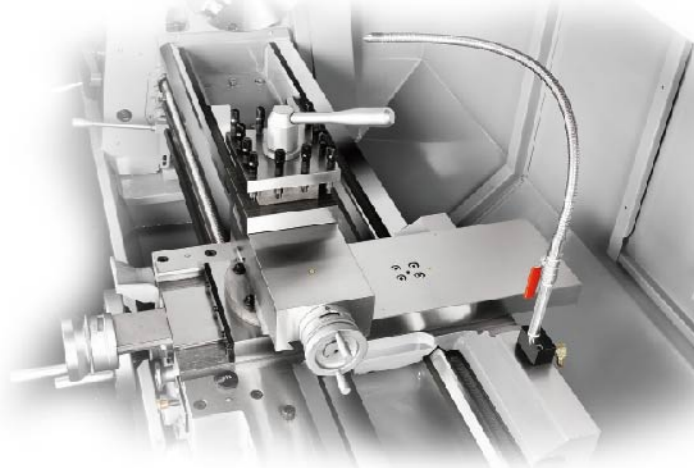
APRON

- The apron is a double wall construction, providing a firm support for power feed shaft.
- Choice of right or left hand wheel.
- Integrated automatic control for longitudinal and cross feeds, forward and reverse feeds.
- An interlock design prevents simultaneous power feed and thread cutting.



RUGGED TAILSTOCK

- Tailstock quill is graduated in inch/metric scales and has a tang slot for positive drive of tool.
- 2-step tailstock is available on request.



CARRIAGE AND CROSS SLIDE

- Anti-float backlash eliminator is fitted in cross slide nut.
- Safety clutch is equipped to feed shaft.
- One shot lubrication for carriage and top slide.
- Designed with dual dials for inch system screw.
- Designed with metric dial for metric system screw.



COMPOUND REST

- The compound rest has T-slot for convenient mounting of tool holder.
- Both the cross slide and the compound rest screws are equipped with inch/metric graduated dials.
- The bottom of the compound slide is graduated in degrees for quick reference when swiveling.

BED

- The ruggedly constructed bed is manufactured from Meehanite cast iron and stress relieved.
- Bed ways are hardened and precision ground.



AHL Series

AHL-1840 / 1860 / 1880 / 18120 / 2240 / 2260 / 2280 / 22120

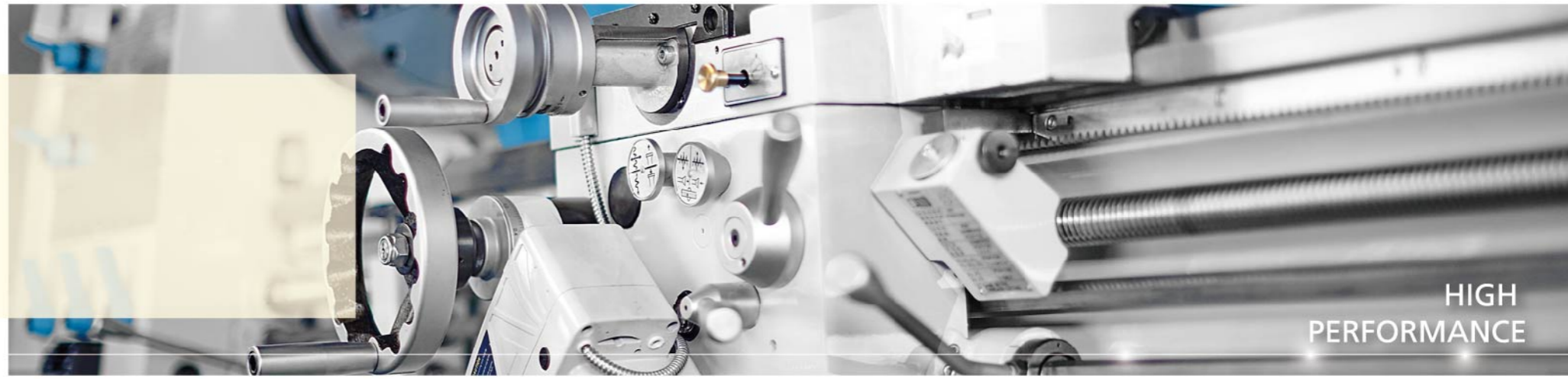
AHL-1840V / 1860V / 1880V / 18120V / 2240V / 2260V / 2280V / 22120V

All models with mechanical clutch. (excluded E.V.S. model)

All models with auto lubrication system to headstock & external tank for cooling the oil

All models meet CE. (on request)

All models with 80mm (3.149") spindle bore, ASA D1-8



HIGH PERFORMANCE

	AHL-1840	AHL-1860	AHL-1880	AHL-18120	AHL-2240	AHL-2260	AHL-2280	AHL-22120	AHL-1840V	AHL-1860V	AHL-1880V	AHL-18120V	AHL-2240V	AHL-2260V	AHL-2280V	AHL-22120V																
Capacity																																
Height of centers	230mm (9.055")				280mm (11.02")				230mm (9.055")				280mm (11.02")																			
Swing over bed	ø460mm (18.11")				ø560mm (22.04")				ø460mm (18.11")				ø560mm (22.04")																			
Swing in gap	ø710mm (27.95")				ø808mm (31.81")				ø710mm (27.95")				ø808mm (31.81")																			
Swing over cross slide	ø298mm (11.93")				ø390mm (15.35")				ø298mm (11.73")				ø390mm (15.35")																			
Distance between centers	1000mm (40")	1500mm (60")	2000mm (80")	3000mm (120")	1000mm (40")	1500mm (60")	2000mm (80")	3000mm (120")	1000mm (40")	1500mm (60")	2000mm (80")	3000mm (120")	1000mm (40")	1500mm (60")	2000mm (80")	3000mm (120")																
Width of bed	345mm (13.58")																															
Gap width in front faceplate	250mm (9.84")																															
Headstock and Main Spindle																																
Spindle nose, internal taper	D1-8, MT. No.7																															
Spindle center sleeve	MT. No.7 x MT. No.5																															
Spindle bore	ø80mm (3.149")																															
Spindle speed:	16 steps / 20~1600 R.P.M.								4 steps /																							
Gear steps / Range	Green 20 65 210 670				Yellow 25 85 280 900				Red 35 115 380 1200				Blue 50 150 500 1600				L 18~55 R.P.M.				M 55~180 R.P.M.				MH 180~600 R.P.M.				H 600~1800 R.P.M.			
	Disc clutch for Forward / Reverse								Infinitely variable																							
Carriage																																
Length on bed / Width of carriage	543mm (21.37") / 542mm (21.33")																															
Cross slide travel	272mm (10.7")																															
Top slide travel	135mm (5.31")																															
Threads and Feeds																																
Whitworth threads: Kinds / Range	38 kinds / 2~72 T.P.I.																															
Metric threads: Kinds / Range	40 kinds / 0.4~14 mm																															
D.P. threads: Kinds / Range	21 kinds / 8~44 D.P.																															
M.P. threads: Kinds / Range	18 kinds / 0.3~3.5 M.P.																															
Longitudinal feeds	0.04~1.0 (0.0015"~0.04")																															
Cross feeds	0.02~0.5 (0.00075"~0.02")																															
Tailstock																																
Quill diameter	ø76mm (3")																															
Quill travel	165 mm (6.5")																															
Taper of center	MT. No.5																															
Motor																																
Main spindle	10HP				12.5HP				AC 7.5kW (10HP), Inverter				AC 9.4kW (12.5HP), Inverter																			
Forced lubrication for HD.	1/4 HP																															
Coolant pump	1/8 HP																															
Measurement																																
Weight (Net / Gross) Approx.	2000kgs	2200kgs	2500kgs	3000kgs	2150kgs	2350kgs	2650kgs	3150kgs	2000kgs	2200kgs	2500kgs	3000kgs	2150kgs	2350kgs	2650kgs	3150kgs																
Packing size	2140kgs	2360kgs	2700kgs	3260kgs	2290kgs	2510kgs	2850kgs	3410kgs	2140kgs	2360kgs	2700kgs	3260kgs	2290kgs	2510kgs	2850kgs	3410kgs																
Length	2535mm (99.8")	3035mm (119.5")	3535mm (139.2")	4624mm (182")	2535mm (99.8")	3035mm (119.5")	3535mm (139.2")	4624mm (182")	2535mm (99.8")	3035mm (119.5")	3535mm (139.2")	4624mm (182")	2535mm (99.8")	3035mm (119.5")	3535mm (139.2")	4624mm (182")																
Width x Height	Width 1120mm (44.1") x Height 1900mm (74.8")																															

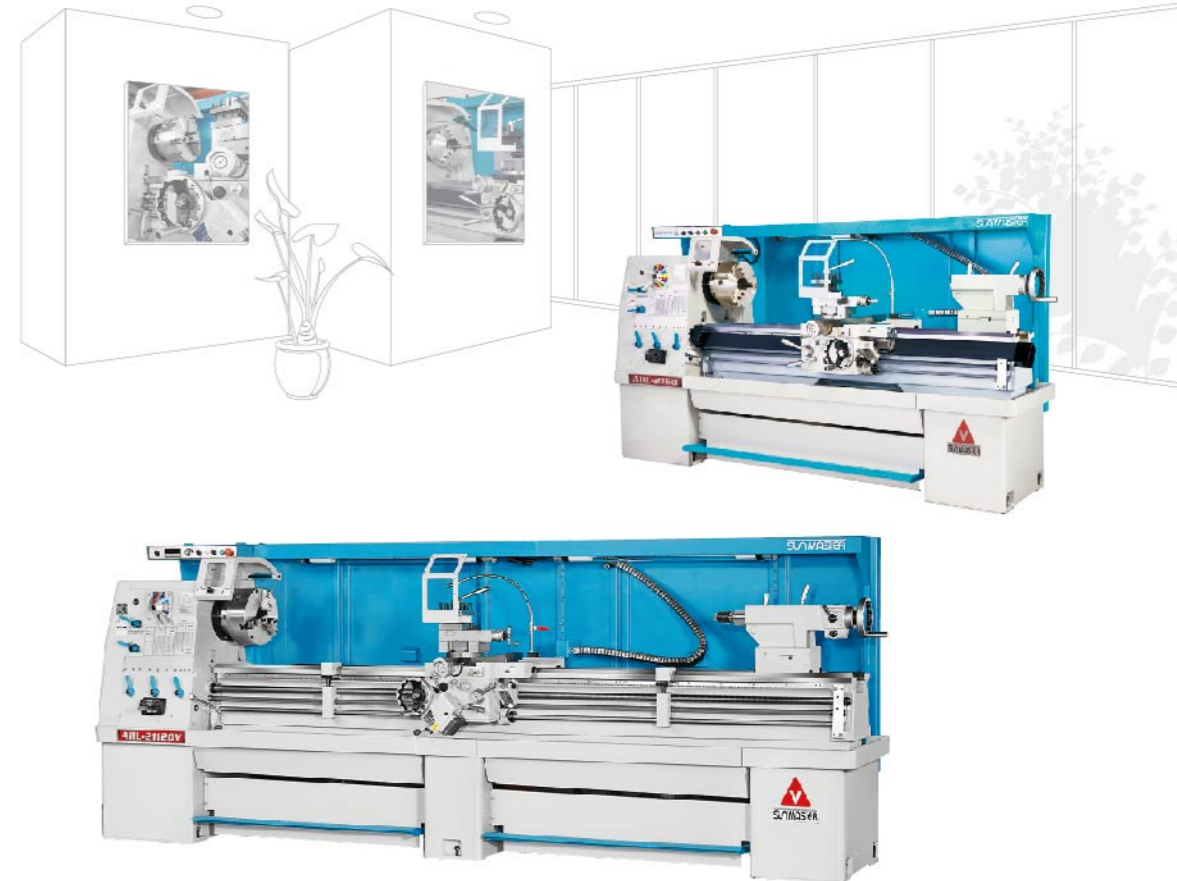
Specifications subject to change without notice.

FEATURES

All castings are properly stabilized and stress relieved
 Bed ways are hardened & ground to min. HRC 48~55
 Turcite B coating between the bed and carriage
 Extremely low noise level
 Foot brake pedal provided
 Built-in coolant pump & fitting provided
 CSS (constant surface speed control) on request for E.V.S. model
 Wider bed way which give absorbs vibration

STANDARD ACCESSORIES

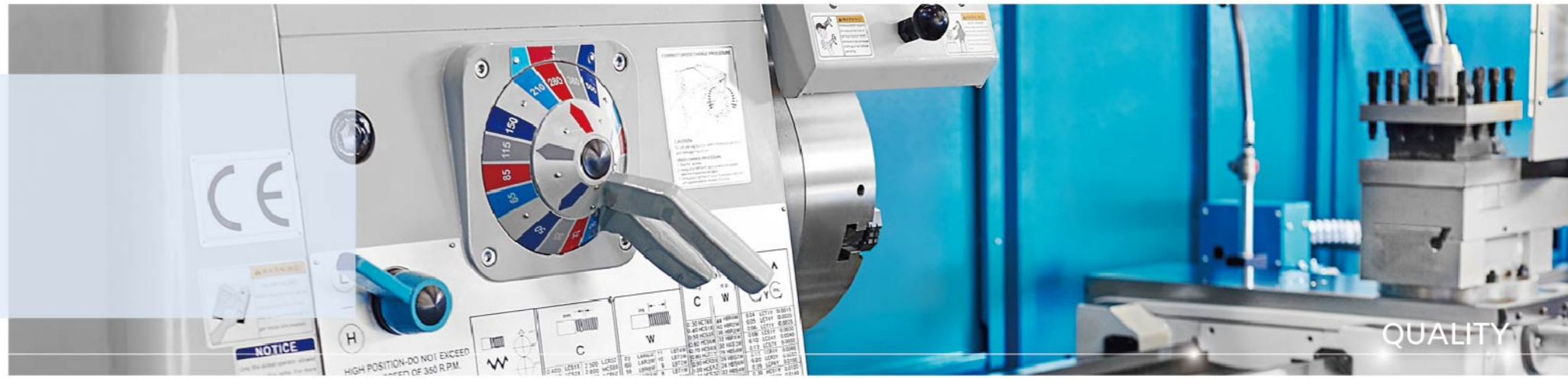
1. Backplate for 12" chuck
2. Dead center MT.5
3. Dead center MT.5 with carbide tip
4. Spindle center sleeve MT.7
5. Level pads.....8 pcs
6. Tool set & Box
7. Operation manual & parts list



BHL Series

BHL-1550
BHL-1550V

- All models with mechanical clutch. (excluded E.V.S. model)
- All models with auto lubrication system to headstock & external tank for cooling the oil
- All models meet CE. (on request)
- All models with 56mm (2.2") spindle bore, ASA D1-6



QUALITY

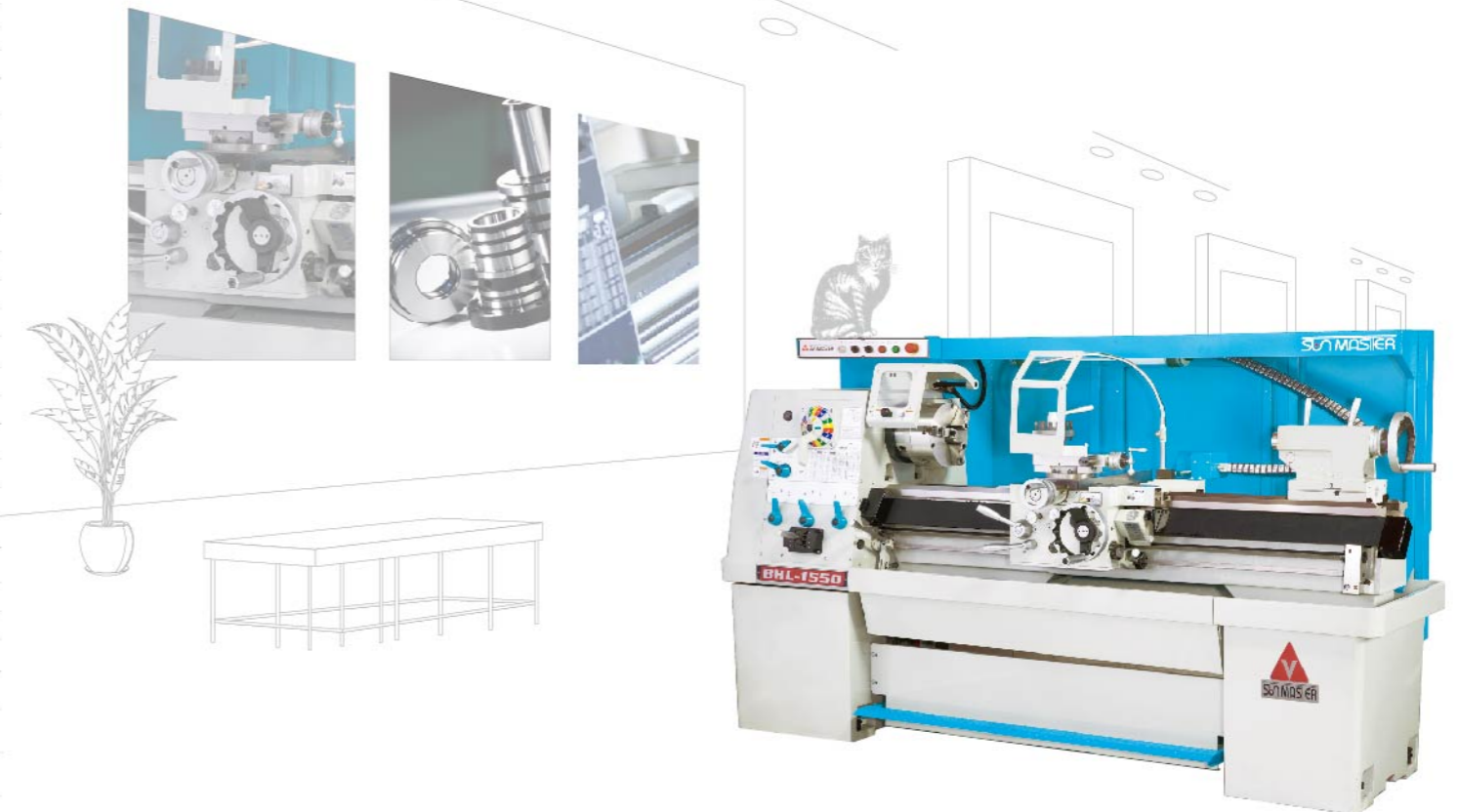
	BHL-1550	BHL-1550V
Capacity		
Height of centers	190mm (7.48")	
Swing over bed	ø380mm (14.96")	
Swing in gap	ø610mm (24")	
Swing over cross slide	ø238mm (9.37")	
Distance between centers	1250mm (50")	
Width of bed	280mm (11")	
Gap width in front faceplate	265mm (10.43")	
Headstock and Main Spindle		
Spindle nose, internal taper	D1-6, MT. No.6	
Spindle center sleeve	MT. No.6 x MT. No.4	
Spindle bore	ø56mm (2.2")	
Spindle speed:	16 steps / 25~2000 R.P.M.	4 steps /
Gear steps / Range	Green 25 80 260 840 Yellow 33 108 350 1120 Red 45 140 470 1500 Blue 60 190 625 2000	L 22~72 R.P.M. M 70~235 R.P.M. MH 235~780 R.P.M. H 753~2500 R.P.M.
	Disc clutch for Forward / Reverse	Infinitely variable
Carriage		
Length on bed / Width of carriage	484mm (19.05") / 450mm (17.71")	
Cross slide travel	235mm (9.25")	
Top slide travel	122mm (4.8")	
Threads and Feeds		
Whitworth threads: Kinds / Range	45 kinds / 2~72 T.P.I.	
Metric threads: Kinds / Range	39 kinds / 0.2~14 mm	
D.P. threads: Kinds / Range	21 kinds / 8~44 D.P.	
M.P. threads: Kinds / Range	18 kinds / 0.3~3.5 M.P.	
Longitudinal feeds	0.04~1.0 (0.0015"~0.04")	
Cross feeds	0.02~0.5 (0.00075"~0.02")	
Tailstock		
Quill diameter	ø59mm (2.322")	
Quill travel	127 mm (5")	
Taper of center	MT. No.4	
Motor		
Main spindle	7.5HP	AC 5.5kW (7.5HP), Inverter
Forced lubrication for HD.	.....	1/4 HP
Coolant pump	1/8 HP	
Measurement		
Weight (Net / Gross) Approx.	1450kgs / 1610kgs	
Packing size	Length	2580mm (101.58")
	Width x Height	Width 1120mm (44.1") x Height 1900mm (74.8")

FEATURES

- All castings are properly stabilized and stress relieved.
- Bed ways are hardened & ground to min. HRC 48~55
- Turcite B coating between the bed and carriage
- Extremely low noise level
- Foot brake pedal provided
- Built-in coolant pump & fitting provided
- CSS (constant surface speed control) on request for E.V.S. model
- Wider bed way which give absorbs vibration

STANDARD ACCESSORIES

1. Backplate for 9" chuck
2. Dead center MT.4
3. Center MT.4 with carbide tip
4. Spindle center sleeve MT.6
5. Level pads.....8 pcs
6. Tool set & Box
7. Operation manual & parts list



Specifications subject to change without notice.

SR Series

SR-1840 / 1860 / 2140 / 2160

SR-1840V / 1860V / 2140V / 2160V

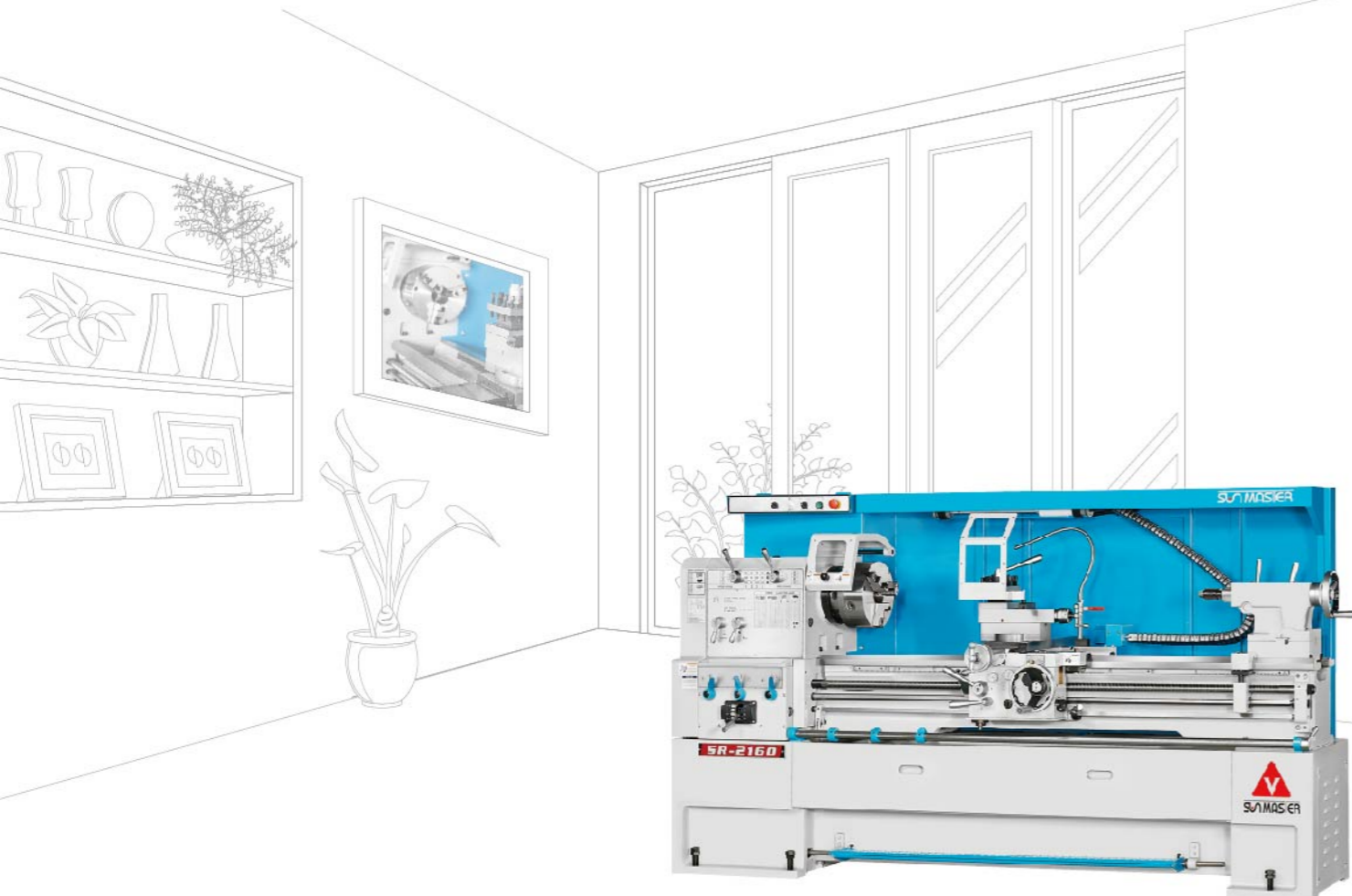
- All models with one piece solid stand
- All models with universal feed gearbox & reversable apron
- All models meet CE. (on request)
- All models with 80mm (3.149") spindle bore, ASA D1-8
- All models cross slide is hardened and ground to prolong operation life

FEATURES

- All castings are properly stabilized and stress relieved
- Bed ways are hardened & ground to min. HRC 48~55
- Turcite B coating between the bed and carriage
- Extremely low noise level
- Foot brake pedal provided
- Built-in coolant pump & fitting provided
- Wider bed way which give absorbs vibration

STANDARD ACCESSORIES

1. Backplate for 10" chuck
2. Dead center MT.5
3. Dead center MT.4 with carbide tip
4. Spindle center sleeve ø85 Taper 1/19.18
5. Level pads.....6 pcs
6. Tool set & Box
7. Operation manual & parts list



TECHNOLOGY

	SR-1840	SR-1860	SR-2140	SR-2160	SR-1840V	SR-1860V	SR-2140V	SR-2160V
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Capacity								
Height of centers	231mm (9.09")		271mm (10.67")		231mm (9.09")		271mm (10.67")	
Swing over bed	ø462mm (18.19")		ø542mm (21.34")		ø462mm (18.19")		ø542mm (21.34")	
Swing in gap	ø650mm (25.6")		ø730mm (28.74")		ø650mm (25.6")		ø730mm (28.74")	
Swing over cross slide	ø307mm (12.1")		ø387mm (15.23")		ø307mm (12.1")		ø387mm (15.23")	
Distance between centers	850mm (33.46")	1350mm (53.15")	850mm (33.46")	1350mm (53.15")	850mm (33.46")	1350mm (53.15")	850mm (33.46")	1350mm (53.15")
Width of bed	305mm (12")							
Gap width in front faceplate	165mm (6.5")							

Headstock and Main Spindle								
Spindle nose, internal taper	D1-8, ø85mm Taper 1/19.18							
Spindle center sleeve	ø85mm Taper 1/19.18 x MT. No.5							
Spindle bore	ø80mm (3.149")							
	12 steps / 30~1500 R.P.M.				3 steps / 25~1830 R.P.M.			
	L	30	45	60	90	L	25	105
Spindle speed:	M	110	150	210	320	M	105	375
Gear steps / Range	H	530	750	1050	1500	H	375	1830

Carriage	
Length on bed / Width of carriage	440mm (17.32") / 477mm (18.77")
Cross slide travel	272mm (10.7")
Top slide travel	155mm (6.1")

Threads and Feeds	
Whitworth threads: Kinds / Range	45 kinds / 2~72 T.P.I.
Metric threads: Kinds / Range	39 kinds / 0.2~14 mm
D.P. threads: Kinds / Range	21 kinds / 8~44 D.P.
M.P. threads: Kinds / Range	18 kinds / 0.3~3.5 M.P.
Longitudinal feeds	0.04~1.0 (0.0015"~0.04")
Cross feeds	0.02~0.5 (0.00075"~0.02")

Tailstock	
Quill diameter	ø68mm (2.677")
Quill travel	153 mm (6")
Taper of center	MT. No.4

Motor		
Main spindle	7.5 HP	10 HP
Forced lubrication for HD.	.....
Coolant pump	1/8 HP	

Measurement								
Weight (Net / Gross) Approx.	1700kgs / 1840kgs	1850kgs / 2010kgs	1750kgs / 1890kgs	1900kgs / 2060kgs	1700kgs / 1840kgs	1850kgs / 2010kgs	1750kgs / 1890kgs	1900kgs / 2060kgs
Packing size	Length	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")
	Width x Height	Width 1155mm (45.5") x Height 1900mm (74.8")						

Specifications subject to change without notice.

ML Series

ML-1740 / 1760 / 2040 / 2060

ML-1740V / 1760V / 2040V / 2060V

E.V.S models with auto lubrication system to headstock & external tank for cooling the oil

All models with one piece solid stand

All models with universal feed gearbox & reversable apron

All models meet CE. (on request)

All models with 80mm (3.149") spindle bore, ASA D1-6

All models cross slide is hardened and ground to prolong operation life

FEATURES

All castings are properly stabilized and stress relieved

Bed ways are hardened & ground to min. HRC 48~55

Turcite B coating between the bed and carriage

Extremely low noise level

Foot brake pedal provided

Built-in coolant pump & fitting provided

CSS (constant surface speed control) on request for E.V.S. model

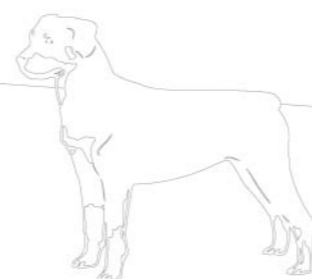
Wider bed way which give absorbs vibration

STANDARD ACCESSORIES

1. Backplate for 10" chuck
2. Dead center MT.5
3. Dead center MT.4 with carbide tip
4. Spindle center sleeve.....ø85mm Taper 1/19.18
5. Level pads.....6 pcs
6. Tool set & Box
7. Operation manual & parts list



SMART



	ML-1740	ML-1760	ML-2040	ML-2060	ML-1740V	ML-1760V	ML-2040V	ML-2060V
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Capacity

Height of centers	216mm (8.5")		254mm (10")		216mm (8.5")		254mm (10")	
Swing over bed	ø432mm (17")		ø508mm (20")		ø432mm (17")		ø508mm (20")	
Swing in gap	ø622mm (24.48")		ø698mm (27.48")		ø622mm (24.48")		ø698mm (27.48")	
Swing over cross slide	ø277mm (10.9")		ø353mm (13.89")		ø277mm (10.9")		ø353mm (13.89")	
Distance between centers	1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")
Width of bed					305mm (12")			
Gap width in front faceplate					195mm (7.67")			

Headstock and Main Spindle

Spindle nose, internal taper					D1-6, ø85mm Taper 1/19.18			
Spindle center sleeve					ø85mm Taper 1/19.18 x MT. No.5			
Spindle bore					ø80mm (3.149")			
	12 steps / 36~1800 R.P.M.				3 steps /			
	A	36	50	70	105	L	30~125 R.P.M.	
Spindle speed:	B	130	180	250	380	M	125~450 R.P.M.	
Gear steps / Range	C	620	900	1200	1800	H	450~2200 R.P.M.	
					Infinitely variable			

Carriage

Length on bed / Width of carriage					440mm (17.32") / 477mm (18.77")			
Cross slide travel	235mm (9.25")		272mm (10.7")		235mm (9.25")		272mm (10.7")	
Top slide travel					155mm (6.1")			

Threads and Feeds

Whitworth threads: Kinds / Range					45 kinds / 2~72 T.P.I.			
Metric threads: Kinds / Range					39 kinds / 0.2~14 mm			
D.P. threads: Kinds / Range					21 kinds / 8~44 D.P.			
M.P. threads: Kinds / Range					18 kinds / 0.3~3.5 M.P.			
Longitudinal feeds					0.04~1.0 (0.0015"~0.04")			
Cross feeds					0.02~0.5 (0.00075"~0.02")			

Tailstock

Quill diameter					ø59mm (2.322")			
Quill travel					127 mm (5")			
Taper of center					MT. No.4			

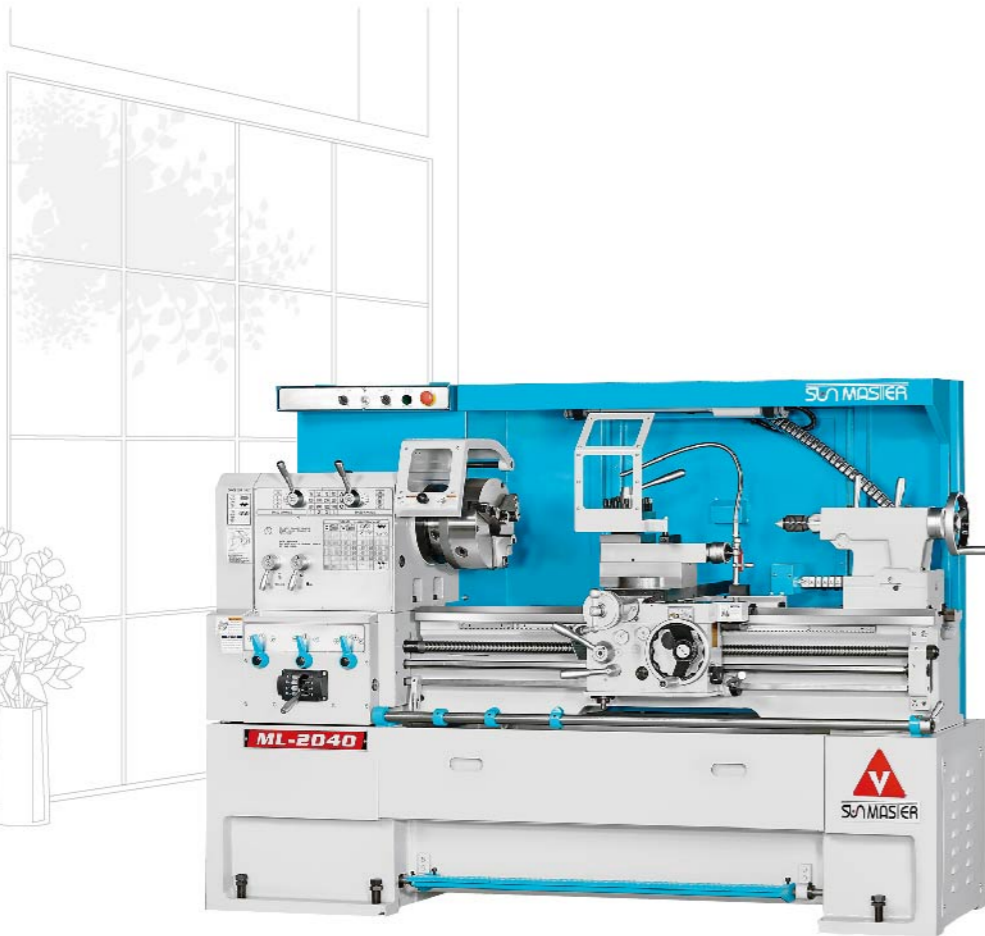
Motor

Main spindle	7.5HP				AC 5.5kW (7.5HP), Inverter			
Forced lubrication for HD.	.....				1/4 HP			
Coolant pump					1/8 HP			

Measurement

Weight (Net / Gross) Approx.	1700kgs	1850kgs	1750kgs	1900kgs	1700kgs	1850kgs	1750kgs	1900kgs
	1840kgs	2010kgs	1890kgs	2060kgs	1840kgs	2010kgs	1890kgs	2060kgs
Packing size	Length	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")	2900mm (114.2")
	Width x Height	Width 1155mm (45.5") x Height 1900mm (74.8")						

Specifications subject to change without notice.



CL Series

CL-1740 / 1760

CL-1740V / 1760V

E.V.S models with auto lubrication system to headstock & external tank for cooling the oil

All models with one piece solid stand

All models with universal feed gearbox & reversable apron

All models meet CE. (on request)

All models with 52.5mm (2.066") spindle bore, ASA D1-6

All models cross slide is hardened and ground to prolong operation life

FEATURES

All castings are properly stabilized and stress relieved

Bed ways are hardened & ground to min. HRC 48~55

Turcite B coating between the bed and carriage

Extremely low noise level

Foot brake pedal provided

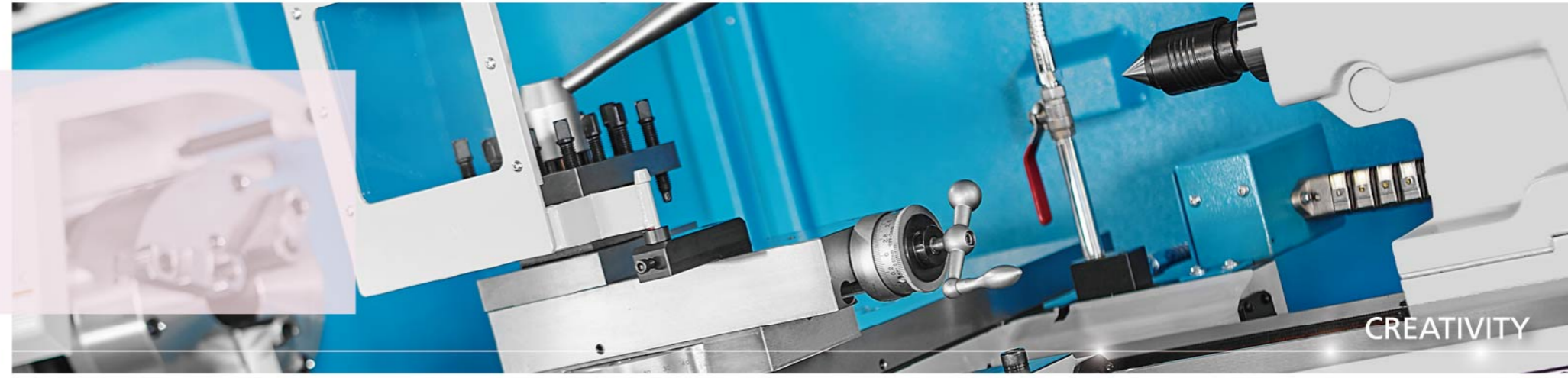
Built-in coolant pump & fitting provided

CSS (constant surface speed control) on request for E.V.S. model

Wider bed way which give absorbs vibration

STANDARD ACCESSORIES

1. Backplate for 9" chuck
2. Dead center MT.4
3. Dead center MT.4 with carbide tip
4. Spindle center sleeve MT.6
5. Level pads.....6 pcs
6. Tool set & Box
7. Operation manual & parts list



CREATIVITY



	CL-1740	CL-1760	CL-1740V	CL-1760V	
Capacity					
Height of centers	216mm (8.5")				
Swing over bed	ø432mm (17")				
Swing in gap	ø622mm (24.48")				
Swing over cross slide	ø277mm (10.9")				
Distance between centers	1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")	
Width of bed	305mm (12")				
Gap width in front faceplate	120mm (4.72")				
Headstock and Main Spindle					
Spindle nose, internal taper	D1-6, MT. No.6				
Spindle center sleeve	MT. No.6 x MT. No.4				
Spindle bore	ø52.5mm (2.066")				
Spindle speed:	8 steps / 4P 80~2000 R.P.M. OPT.		2 steps / 4P L 20~400 R.P.M. H 400~2500 R.P.M.		
Gear steps / Range	16 steps / 4P / 8P 8P 40~1000 R.P.M. 4P 80~2000 R.P.M.		Infinitely variable		
Carriage					
Length on bed / Width of carriage	440mm (17.32") / 477mm (18.77")				
Cross slide travel	235mm (9.25")				
Top slide travel	155mm (6.1")				
Threads and Feeds					
Whitworth threads: Kinds / Range	45 kinds / 2~72 T.P.I.				
Metric threads: Kinds / Range	39 kinds / 0.2~14 mm				
D.P. threads: Kinds / Range	21 kinds / 8~44 D.P.				
M.P. threads: Kinds / Range	18 kinds / 0.3~3.5 M.P.				
Longitudinal feeds	0.04~1.0 (0.0015"~0.04")				
Cross feeds	0.02~0.5 (0.00075"~0.02")				
Tailstock					
Quill diameter	ø59mm (2.322")				
Quill travel	127 mm (5")				
Taper of center	MT. No.4				
Motor					
Main spindle	5HP 4P OPT. 7.5HP 4P / 3.75HP 8P		AC 3.7kW (5HP), Inverter		
Forced lubrication for HD.	.....		1/4 HP	
Coolant pump	.....		1/8 HP	
Measurement					
Weight (Net / Gross) Approx.	1600kgs / 1740kgs	1750kgs / 1910kgs	1600kgs / 1740kgs	1750kgs / 1910kgs	
Packing size	Length	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")
	Width x Height	Width 1120mm (44.1") x Height 1900mm (74.8")			

Specifications subject to change without notice.

TML Series

TML-1640

TML-1660

- All models with one piece solid stand
- All models with universal feed gearbox & reversible apron
- All models meet CE. (on request)
- All models with 52.5mm (2.066") spindle bore, ASA D1-6

FEATURES

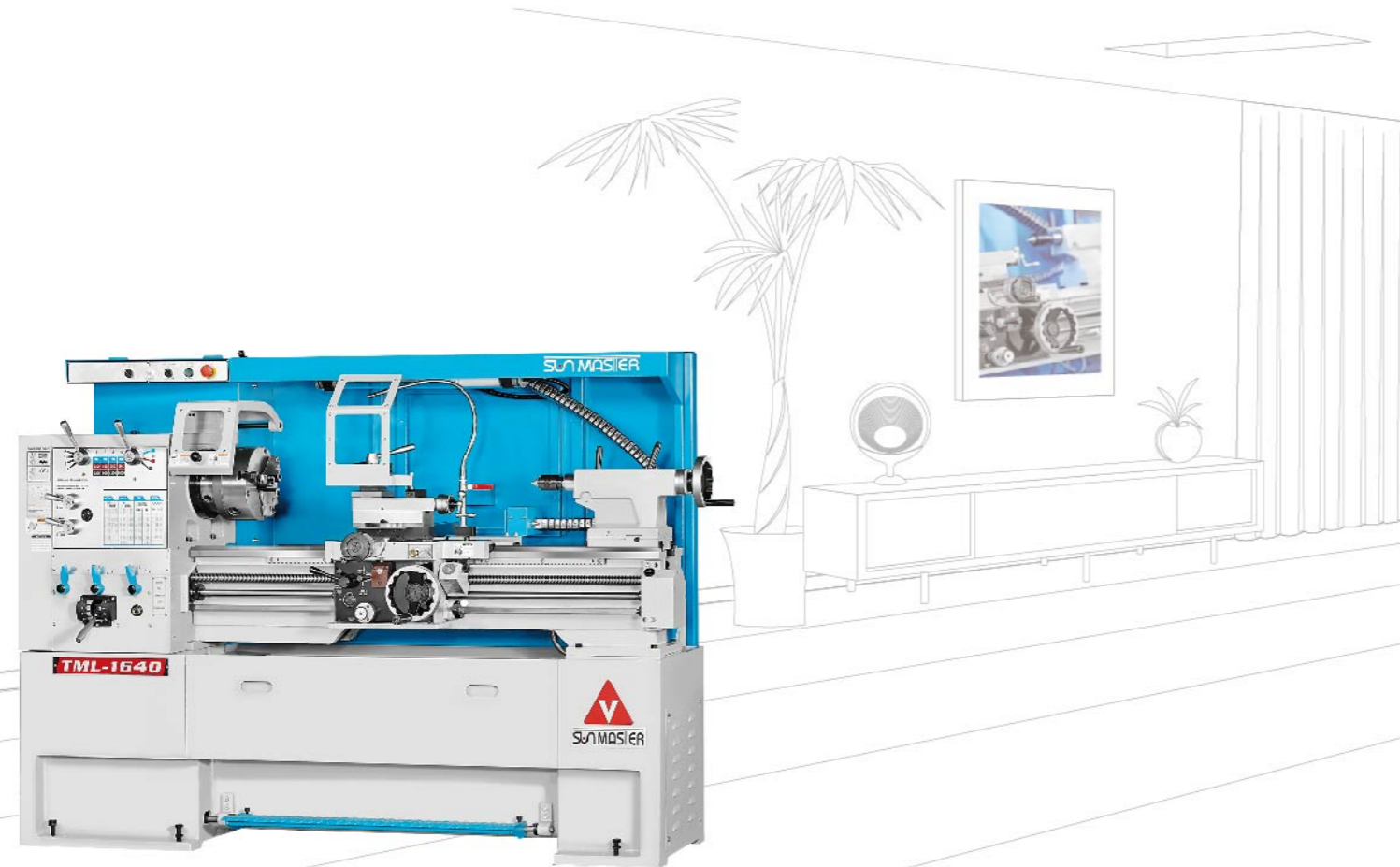
- All castings are properly stabilized and stress relieved
- Bed ways are hardened & ground to min. HRC 48~55
- Turcite B coating between the bed and carriage
- Extremely low noise level
- Foot brake pedal provided
- Built-in coolant pump & fitting provided
- Wider bed way which give absorbs vibration

STANDARD ACCESSORIES

1. Backplate for 9" chuck
2. Dead center MT.4
3. Dead center MT.4 with carbide tip
4. Spindle center sleeve MT.6
5. Level pads.....6 pcs
6. Tool set & Box
7. Operation manual & parts list



HIGH SPEED



	TML-1640	TML-1660
Capacity		
Height of centers	205mm (8.07")	
Swing over bed	ø410mm (16.14")	
Swing in gap	ø583mm (22.95")	
Swing over cross slide	ø262mm (10.3")	
Distance between centers	1000mm (40")	1500mm (60")
Width of bed	260mm (10.236")	
Gap width in front faceplate	135mm (5.31")	225mm (8.85")
Headstock and Main Spindle		
Spindle nose, internal taper	D1-6, MT. No.6	
Spindle center sleeve	MT. No.6 x MT. No.4	
Spindle bore	ø52.5mm (2.066")	
	12 steps / 36~1800 R.P.M.	
	L	36 50 70 105
	M	130 180 250 380
	H	620 900 1200 1800
Spindle speed:		
Gear steps / Range		
Carriage		
Length on bed / Width of carriage	513mm (20.19") / 412mm (16.22")	
Cross slide travel	220mm (8.6")	
Top slide travel	125mm (4.92")	
Threads and Feeds		
Whitworth threads: Kinds / Range	45 kinds / 2~72 T.P.I.	
Metric threads: Kinds / Range	39 kinds / 0.2~14 mm	
D.P. threads: Kinds / Range	21 kinds / 8~44 D.P.	
M.P. threads: Kinds / Range	18 kinds / 0.3~3.5 M.P.	
Longitudinal feeds	0.05~1.7 (0.002"~0.067")	
Cross feeds	0.025~0.85 (0.001"~0.034")	
Tailstock		
Quill diameter	ø52mm (2.47")	
Quill travel	152 mm (6")	
Taper of center	MT. No.4	
Motor		
Main spindle	5 HP	
Coolant pump	1/8 HP	
Measurement		
Weight (Net / Gross) Approx.	1500kgs / 1620kgs	1600kgs / 1760kgs
Packing size	Length	2270mm (89.4")
	Width x Height	Width 1120mm (44.1") x Height 1900mm (74.8")

Specifications subject to change without notice.

RML Series

RML-1430 / 1440 / 1460 / 1630 / 1640 / 1660

RML-1430V / 1440V / 1460V / 1630V / 1640V / 1660V

- E.V.S models with auto lubrication system to headstock & external tank for cooling the oil
- All models with one piece solid stand
- All models with universal feed gearbox & reversable apron
- All models meet CE. (on request)
- All models with 52.5mm (2.066") spindle bore, ASA D1-6



	RML-1430	RML-1440	RML-1460	RML-1630	RML-1640	RML-1660	RML-1430V	RML-1440V	RML-1460V	RML-1630V	RML-1640V	RML-1660V
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Capacity												
Height of centers	180mm (7.08")			205mm (8.07")			180mm (7.08")			205mm (8.07")		
Swing over bed	ø360mm (14.17")			ø410mm (16.14")			ø360mm (14.17")			ø410mm (16.14")		
Swing in gap	ø533mm (20.98")			ø583mm (22.95")			ø533mm (20.98")			ø583mm (22.95")		
Swing over cross slide	ø212mm (8.35")			ø262mm (10.3")			ø212mm (8.35")			ø262mm (10.3")		
Distance between centers	800mm (31.5")	1000mm (40")	1500mm (60")	800mm (31.5")	1000mm (40")	1500mm (60")	800mm (31.5")	1000mm (40")	1500mm (60")	800mm (31.5")	1000mm (40")	1500mm (60")
Width of bed	260mm (10.236")											
Gap width in front faceplate	135mm (5.31")			225mm (8.85")			135mm (5.31")			225mm (8.85")		

Headstock and Main Spindle

Spindle nose, internal taper	D1-6, MT. No.6											
Spindle center sleeve	MT. No.6 x MT. No.4											
Spindle bore	ø52.5mm (2.066")											
Spindle speed:	8 steps /						2 steps /					
	4P 70~1800 R.P.M.						4P L 20~400 R.P.M.					
	OPT.						H 400~2500 R.P.M.					
Gear steps / Range	16 steps /			8P 40~1000 R.P.M.			25~3000 R.P.M. (Opt.)					
	4P / 8P			4P 80~2000 R.P.M.			Infinitely variable					

Carriage

Length on bed / Width of carriage	513mm (20.19") / 412mm (16.22")											
Cross slide travel	220mm (8.6")											
Top slide travel	125mm (4.92")											

Threads and Feeds

Whitworth threads: Kinds / Range	45 kinds / 2~72 T.P.I.											
Metric threads: Kinds / Range	39 kinds / 0.2~14 mm											
D.P. threads: Kinds / Range	21 kinds / 8~44 D.P.											
M.P. threads: Kinds / Range	18 kinds / 0.3~3.5 M.P.											
Longitudinal feeds	0.05~1.7 (0.002"~0.067")											
Cross feeds	0.025~0.85 (0.001"~0.034")											

Tailstock

Quill diameter	ø52mm (2.047")											
Quill travel	152 mm (6")											
Taper of center	MT. No.4											

Motor

Main spindle	5HP 4P			OPT. 5HP 4P/ 2.5HP 8P			AC 3.7kW (5HP), Inverter					
Forced lubrication for HD.							1/4 HP					
Coolant pump	1/8 HP											

Measurement

Weight (Net / Gross) Approx.	1300kgs	1350kgs	1450kgs	1350kgs	1400kgs	1500kgs	1300kgs	1350kgs	1450kgs	1350kgs	1400kgs	1500kgs
	1400kgs	1470kgs	1610kgs	1450kgs	1520kgs	1660kgs	1400kgs	1470kgs	1610kgs	1450kgs	1520kgs	1660kgs
Packing size	Length	2070mm (81.5")	2270mm (89.4")	2785mm (109.7")	2070mm (81.5")	2270mm (89.4")	2785mm (109.7")	2070mm (81.5")	2270mm (89.4")	2785mm (109.7")	2070mm (81.5")	2270mm (89.4")
	Width x Height	Width 1120mm (44.1") x Height 1900mm (74.8")										

Specifications subject to change without notice.

FEATURES

- All castings are properly stabilized and stress relieved
- Bed ways are hardened & ground to min. HRC 48~55
- Turcite B coating between the bed and carriage
- Extremely low noise level
- Foot brake pedal provided
- Built-in coolant pump & fitting provided
- CSS (constant surface speed control) on request for E.V.S. model
- Wider bed way which give absorbs vibration

STANDARD ACCESSORIES

1. Backplate for 9" chuck
2. Dead center MT.4
3. Center MT.4 with carbide tip
4. Spindle center sleeve MT.6
5. Level pads.....6 pcs
6. Tool set & Box
7. Operation manual & parts list



ERL Series

ERL-1330 / 1340

ERL-1330V / 1340V

All models with oil bathed lubrication system to headstock
 All models meet CE. (on request)
 All models with 40mm (1.57") spindle bore, ASA D1-4



	ERL-1330	ERL-1340	ERL-1330V	ERL-1340V
Capacity				
Height of centers		171mm (6.73")		
Swing over bed		ø342mm (13.46")		
Swing in gap	.....	ø512mm (20")	.....	ø512mm (20")
Swing over cross slide		ø205mm (8.07")		
Distance between centers	760mm (30")	1000mm (40")	760mm (30")	1000mm (40")
Width of bed		230mm (9")		
Gap width in front faceplate		150mm (5")		
Headstock and Main Spindle				
Spindle nose, internal taper		D1-4, MT. No.5		
Spindle center sleeve		MT. No.5 x MT. No.3		
Spindle bore		ø40mm (1.57")		
Spindle speed:	8 steps / 4P 80~2000 R.P.M. OPT.		2 steps / 4P L 100~500 R.P.M. H 500~3000 R.P.M.	
Gear steps / Range	16 steps / 2P / 4P	4P 50~1350 R.P.M. 2P 100~2570 R.P.M.		Infinitely variable
Carriage				
Length on bed / Width of carriage		400mm (15.748") / 384mm (15.118")		
Cross slide travel		180mm (7")		
Top slide travel		95mm (3.74)		
Threads and Feeds				
Whitworth threads: Kinds / Range		45 kinds / 2~72 T.P.I.		
Metric threads: Kinds / Range		39 kinds / 0.2~14 mm		
D.P. threads: Kinds / Range		21 kinds / 8~44 D.P.		
M.P. threads: Kinds / Range		18 kinds / 0.3~3.5 M.P.		
Longitudinal feeds		0.05~1.7 (0.002"~0.067")		
Cross feeds		0.025~0.85 (0.001"~0.034")		
Tailstock				
Quill diameter		ø50mm (1.968")		
Quill travel		112 mm (4.5")		
Taper of center		MT. No.3		
Motor				
Main spindle	3HP 4P	OPT. 5HP 2P/ 2.5HP 4P		AC 2.2kW (3HP), Inverter
Coolant pump		1/8 HP		
Measurement				
Weight (Net / Gross) Approx.	850 / 950kgs	1000 / 1120kgs	850 / 950kgs	1000 / 1120kgs
Packing size	Length	2000mm (78.8")	2270mm (89.4")	2000mm (78.8")
	Width x Height	Width 965mm (38") x Height 1900mm (74.8")		

Specifications subject to change without notice.

FEATURES

All castings are properly stabilized and stress relieved
 Bed ways are hardened & ground to min. HRC 48~55
 Extremely low noise level
 Foot brake pedal provided
 Built-in coolant pump & fitting provided
 CSS (constant surface speed control) on request for E.V.S. model
 Wider bed way which give absorbs vibration

STANDARD ACCESSORIES

1. Backplate for 7" chuck
2. Dead center MT.3
3. Center MT.3 with carbide tip
4. Spindle center sleeve MT.5
5. Level pads.....6 pcs
6. Tool set & Box
7. Operation manual & parts list



OPTIONAL ACCESSORIES



5C LEVER TYPE COLLET CLOSER



WORKING LIGHT



DIGITAL READOUT SYSTEM (DRO'S)

Operator friendly readout systems reduce setup time and increase productivity.

Features available:

- Tool offsets for easy compensation of different tool sizes.
- Instant radius / diameter conversion reduces math errors and allows you to machine to print dimensions.
- 2 or 3 axes display.
- Preset and zero rest.
- Near-zero warning.
- Instant inch/mm conversion.
- Most popular brands.



FOLLOW REST

For all models.
With bronze or roller tips.



STEADY REST

For all models with roller tips.

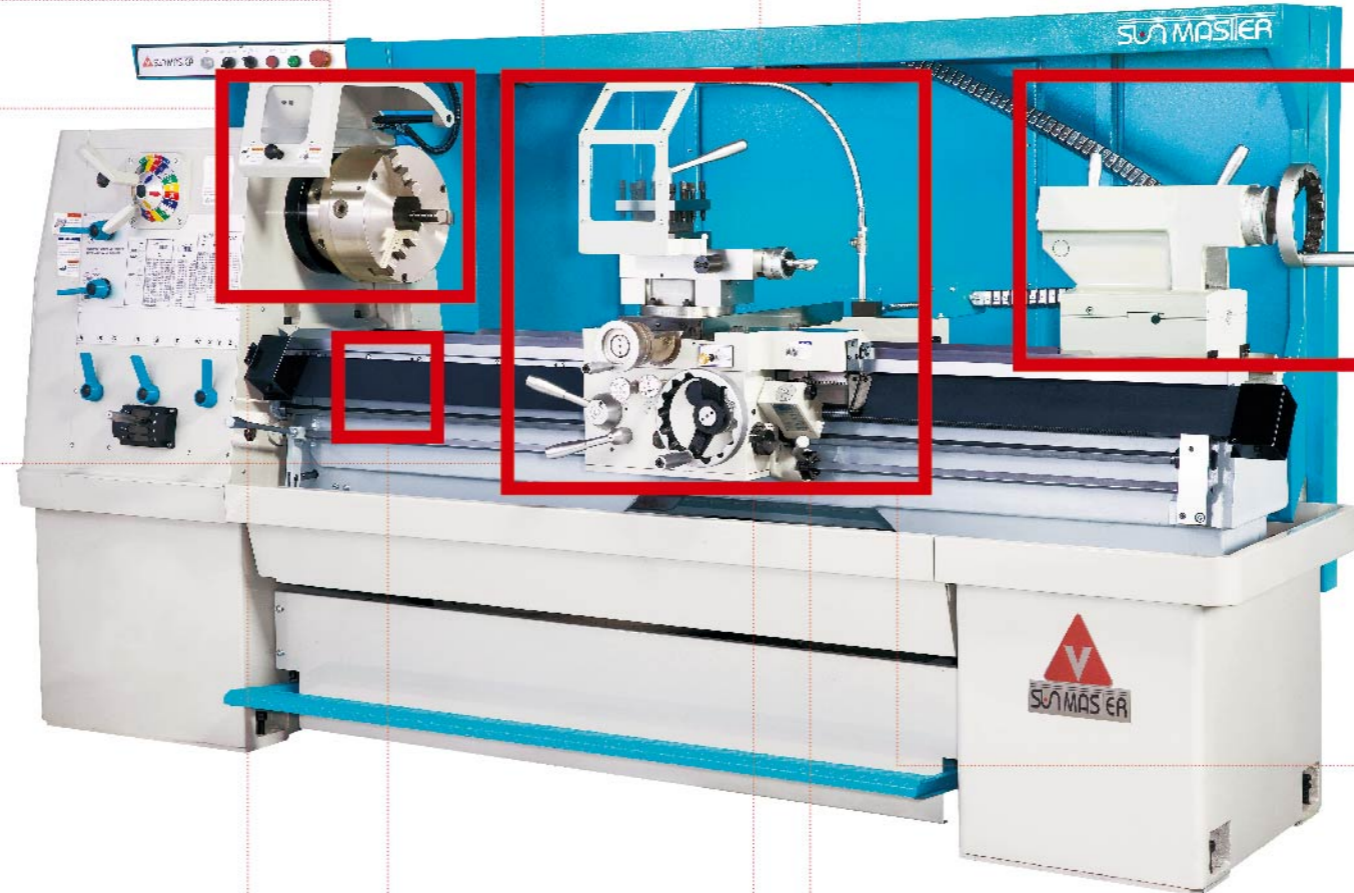


CHUCK SAFETY GUARDS

Solid and clear acrylic material for safety.



TOOL POST SAFETY GUARD



DELUXE TYPE REAR GUARD

DRILL CHUCKS

Keyless and key type.
All sizes available.

LIVE CENTERS



TELESCOPIC TAPER ATTACHMENT

Available for all models.

ALORIS QUICKCHANGE TOOL POST SET



POWER FEED



4 & 3 JAW CHUCK



FACEPLATES

Slotted. For all models.



MICROMETER CARRIAGE STOP



5-STEP CARRIAGE STOP



HAND WHEEL COVER

