







Company History

Established in 1994, Shun Chuan Machinery Ind Co., Ltd. specializes in the design and manufacture of metalworking machinery. Although Shun Chuan is still comparatively young, but derived extensive knowledge from a former reputed company's 25 years of precision manufacturing experience. Therefore, Shun Chuan is often referred to as "a young but experienced manufacturer."

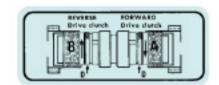
Since establishmend, Shun Chuan has dedicated itself to R&D and innovation based on extensive manufacturing experience. Shun Chuan has won a solid reputation for the dependability of its products.

In the early years, Shun Chuan produced the complete range of conventional lathes originally developed by the former reputed Company. Over the next several years, Shun Chuan constantly improved machine design, construction and developed new models including the currently popular conversational computerized lathes. At the moment, Shun Chuan produces the most complete range of lathes among Taiwan lathe manufacturers.

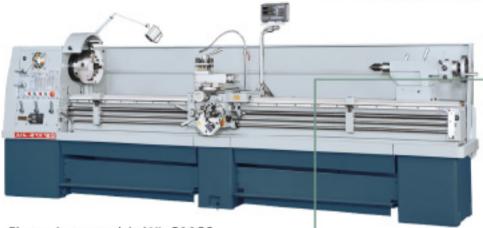
Shun Chuan machines have been sold to over 50 countries in Europe, America, Africa, the Middle East, and Asia. In addition to our current business, our new customers are gradually increasing providing Shun Chuan with the opportunity to expand our products and services. We will constantly develop new models to provide flexible choices and a competitive edge to our customers all over the world.



AHL Series



AHL-1840/1860/1880 -2140/2160/2180/21120



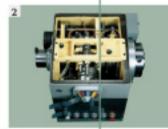
AHL-1840V/1860V/1880V -2140V/2160V/2180V/21120V



Photo shown model :AHL-21120











- Photo shown model: AHL-2160V
 - 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.

- · All castings are properly stabilized and stress relieved.
- Bed ways are hardened & ground to min. HS-70.
- 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.
- 11 LUBRICATION Oil sight window for efficient check of oil level action. • Pressure lubrication system in headstock can ensure it's lubricated and cooling when high speed cutting. • Splash lubrication in feed gearbox & apron.
- HEADSTOCK Housing is vibration-absorbent, deflection-free.
 Gears are hardened & MAAG or REISHAUER ground.
- [3] GEAR BOX Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears. • Induction hardened & precision ground gears.
- APRON R/H or L/H wheel can be available on request.
 Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.
- 15I CARRIAGE & SLIDE Anti-Float design backlash eliminator fitted in cross slide nut. • Safety clutch at feed shaft. • One shot lubrication in carriage & top slide. • Dual dials supply inch system screw. • Metric dial supply metric system only. SAFETY FEATURES • Nylon safety gears in end train.
 - · Shear pin in leadscrew.
- 16I HEAVY DUTY SPINDLE Machined from forged alloy steel, hardened ground & dynamically balanced. • Three point support by high grade precision, machine tool taper roller & ball bearings.



- 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

OPTIONAL ACCESSORIES:

- 1 3-Jaws scroll 12" chuck
- 2 4-Jaws independent chuck 12" for 18....or 14" for 21...
- 3 5C collet closer attachment
- 5C collets (metric or inch)
- 5 Chuck safety guard
- 6 Hydraulic copying attachment

- 7 Tool post grinder attachment
- g Taper turning attachment
- g Electrical system for CE
- 10 Protect cover on leadscrew for CE
- 11 Steady rest w/ball bearing
- 12 Follow rest w/bronze tip
- 3 Faceplate 14"

- 14 Drill chuck & arbor
- 15 Rotating center MT.5
- 16 Halogen lamp
- 17 Quick change tool post
- 18 Carriage micro stop set
- 19 Digital read out system
- Full length splash guard

271 mm (10.67")

ø542 mm (21.34")

ø790 mm (31.10') ø380 mm (14.96')

AHL-1840	AHL-2140 AHL-2160	AHL-1840V	AHL-2140V AHL-2160V
AHL-1860	AHL-2180	AHL-1860V	AHL-2180V
AHL-1880	AHL-21120	AHL-1880V	AHL-21120V

MODEL Height of centers 231 mm (9.09") 271 mm (10.67°) 231 mm (9.09°) Swing over bed ø462 mm (18.19") ø542 mm (21.34") ø462 mm (18.19") Swing in gap ø710 mm (27.95") ø790 mm (31.10°) ø710 mm (27.95") g298 mm (11.73°) ø380 mm (14.96") ø298 mm (11.73") Capacity Swing over cross slide Distance between centers Width of bed 345 mm (13.58") 250 mm (9.84") Gap width in front of faceplate

 Gap width in front of faceplate
 250 mm (9.84")

 Spindle nose, internal taper
 D1-8, MT.No.7

 Spindle center sleeve
 MT. No.7 x MT. No.5

 Spindle bore
 ø80 mm (3.149")

Headstock and Spindle bore

Main Spindle Spindle speed: /
Range

Gear steps

16 steps / 20~1600 R.P.M. Green 20 65 210 670 Yellow 25 85 280 900 Red 35 115 380 1200 Blue 50 150 500 1600 "MATRIX" Disc clutch for Forward / Reverse L 18~55 R.P.M.

M 55~180 R.P.M.

4 steps / MH 180~600 R.P.M.

H 600~1800 R.P.M.

Infinitely variable

543 mm (21.37") / 542 mm (21.33") Length on bed / Width of carriage Cross slide travel 272 mm (10.7°) Carriage 137 mm (5.39") Top slide travel 38 Kinds / 2~72 T.P.I. Whitworth threads: Kinds / Range 40 Kinds / 0.4~14 mm Metric threads: Kinds / Range Threads D.P. threads: Kinds / Range 21 Kinds / 8~44 D.P. and 18 Kinds / 0.3~3.5 M.P. M.P. threads: Kinds / Range Feeds 0.04~1.0 mm (0.0015"~0.04") Longitudinel feeda 0.02~0.5 mm (0.00075"~0.02") Cross feeds ø76 mm (3") Quill diameter 165 mm (6.5°) Tailstock Quill travel MT.No.5 Taper of center Main spindle 10HP 12.5HP AC 7.5kW (10HP) AC 9.4kW (12.5HP), Inverter Forced lubrication for HD. Motor

Coolant pump
Weight (Net /Gross) Approx.

Measurement

Length Packing sizes Width x Height 2000 kgs 2350 kgs 2700 kgs 2300 kgs 2550 kgs 3000 kgs 3700 kgs 2000 kgs 2350 kgs 2700 kgs 2650 kgs 3000 kgs 3700 kgs 3700 kgs 2550 kgs 2700 kgs 2700 kgs 3700 kgs 370

1/8HP

Width 1120 mm (44.1") x Height 1745 mm (68.7")







Photo shown model: BHL-1550 w/protect cover on leadscrew

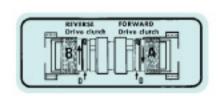
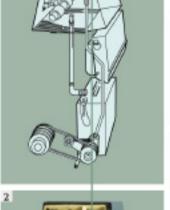
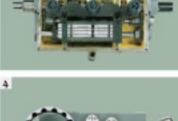




Photo shown model: BHL-1550V

- 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.











- · All castings are properly stabilized and stress relieved.
- Bed ways are hardened & ground to min. HS-70.
- . 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.
- 111 LUBRICATION Oil sight window for efficient check of oil level action. • Pressure lubrication system in headstock can ensure it's lubricated and cooling when high speed cutting. • Splash lubrication in feed gearbox & apron.
- 12I HEADSTOCK Housing is vibration-absorbent, deflection-free.

 Gears are hardened & MAAG or REISHAUER ground.
- I3I GEAR BOX Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- |4| APRON R/H or L/H wheel can be available on request.
 - Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.
- 15I HEAVY DUTY SPINDLE Machined from forged alloy steel, hardened ground & dynamically balanced. • Three point support by high grade precision, machine tool taper roller & ball bearings.



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

OPTIONAL ACCESSORIES:

- 3-Jaws scroll 9" chuck
- 4-Jaws independent 10" chuck
- 3 5C collet closer attachment
- 5C collets (metric or inch)
- Driving plate with dog
- 6 Chuck safety guard
- Hydraulic copying attachment

- Tool post grinder attachment
- Taper turning attachment
- 10 Electrical system for CE
- 11 Protect cover on leadscrew for CE
- Steady rest w/ball bearing
- 13 Follow rest w/bronze tip
- Faceplate 12"

- Drill chuck & arbor
- 16 Rotating center MT.4
- 17 Halogen lamp
- 18 Quick change tool post
- Carriage micro stop set
- 20 Digital read out system
 - Full length splash guard

BHL-1550

BHL-1550V

М	O	D	ю	L
	~			-

	Height of centers		190 mm (7.48")
	Swing over bed		ø380 mm (14.96°)
	Swing in gap		ø610 mm (24")
Capacity	Swing over cross slide		ø238 mm (9.37°)
	Distance between centers		1250 mm (50°)
	Width of bed		280 mm (11")
	Gap width in front of faceplate		265mm (10.43")
	Spindle nose, internal taper		D1-6, MT.No.6
	Spindle center sleeve		MT. No.6 x MT. No.4
	Spindle bore		ø56 mm (2.2")
Headstock		16 steps / 25~2000 R.P.M.	

and

Threads

and

Feeds

Tailstock

Motor

Main Spindle Spindle speed: Range

Green 25 80 260 840 Yellow 33 108 350 1120 Gear steps Red 45 140 470 1500 Blue 60 190 625 2000 "MATRIX" Disc clutch for Forward / Reverse

L _ _ 22-72 R.P.M. M 70-235 R.P.M. 4 steps / MH _ 235~780 R.P.M. H 753~2500 R.P.M.

484 mm (19.05") / 450 mm (17.71")

235 mm (9.25")

120 mm (4.72")

45 Kinds / 2~72 T.P.I.

Infinitely variable

Length on bed / Width of carriage Cross slide travel Carriage Top slide travel

Whitworth threads: Kinds / Range Metric threads: Kinds / Range

Longitudinal feeds Cross feeds

D.P. threads: Kinds / Range M.P. threads: Kinds / Range

39 Kinds / 0.2-14 mm 21 Kinds / 8-44 D.P. 18 Kinds / 0.3-3.5 M.P. 0.04 1.0 mm (0.0015" 0.04") 0.02-0.5 mm (0.00075"-0.02")

Quill diameter ø59 mm (2.322') 127 mm (5") Quill travel Taper of center MT.No.4

Main spindle Forced lubrication for HD. Coolant pump

AC 5.5kW (7.5HP), Inverter 7.5HP 1/4HP 1/8HP

1450 kgs / 1700 kgs Weight (Net /Gross) Approx.

Measurement

Length Packing sizes Width x Height

2580 mm (101.58°) Width 1120 mm (44.1") x Height 1745 mm (68.7")

5|6

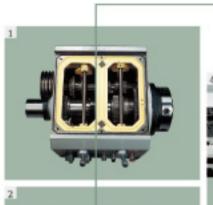




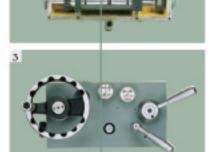
SR-1840/1860 -2140/2160



Photo shown model :SR-2160









- · 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,
- · All models cross slide is hardened and ground to prolong operation life.

- All castings are properly stabilized and stress relieved.
- Bed ways are hardened & ground to min. HS-70.
- . 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.

- | HEADSTOCK Housing is vibration-absorbent, deflection-free. Gears are hardened & MAAG or REISHAUER ground.
- 121 GEAR BOX Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- |3| APRON R/H or L/H wheel can be available on request. · Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.
- 141 CARRIAGE & SLIDE Anti-Float design backlash eliminator fitted in cross slide nut. . Safety clutch at feed shaft. . One shot lubrication in carriage & top slide. • Dual dials supply inch system screw. • Metric dial supply metric system only. SAFETY FEATURES • Nylon safety gears in end train.

 - · Shear pin in leadscrew.
- 151 HEAVY DUTY SPINDLE Machined from forged alloy steel, hardened ground & dynamically balanced. . Three point support by high grade precision, machine tool taper roller & ball bearings.



- 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

OPTIONAL ACCESSORIES:

- 1 3-Jaws scroll 10" chuck
- 2 4-Jaws independent 12" chuck
- 3 5C collet closer attachment
- 4 5C collets (metric or inch)
- 5 Faceplate 14"
- 6 Chuck safety guard
- 7 Hydraulic copying attachment

- 5 Level pads.....6 pcs
- 6 Tool set & Box
- 7 Operation manual & parts list
 - 8 Tool post grinder attachment
- 9 Taper turning attachment
- 10 Electrical system for CE
- 11 Protect cover on leadscrew for CE
- 12 Steady rest w/ball bearing
- 13 Follow rest w/bronze tip
- 14 Drill chuck & arbor

- 15 Rotating center MT.4
- 16 Halogen lamp

Hs 530 750 1050 1500

- 17 Quick change tool post
- 18 Carriage micro stop set
- 19 Digital read out system
- 20 Full length splash guard

SR-1840 SR-1860 SR-2140 SR-2160

Height of centers 231 mm (9.09") 271 mm (10.67")

Swing over bed 9462 mm (18.19") 9542 mm (21.34")

Swing in gap 9650 mm (25.6") 9730 mm (28.74")

Capacity Swing over cross slide 9307 mm (12.1") 9387 mm (15.23")

Distance between centers 850 mm (33.46") 1350 mm (53.15") 850 mm (33.46") 1350 mm (53.15") Width of bed 305 mm (12")

Gap width in front of faceplate 165 mm (6.5")

Spindle nose, internal taper D1-8, ø85 mm Taper 1/19.18

Spindle center sleeve ø85 mm Taper 1/19.18 x MT. No.5

Spindle bore ø80 mm (3.149")

Headstock

and Gear steps 12 steps / 30—1500 R.P.M.

Main Spindle Spindle speed: / Ls 30 45 60 90

Ms 110 150 210 320

Range Hs 520 750 1050 1500

Length on bed / Width of carriage 440 mm (17.32") / 477 mm (18.77")

Carriage Cross slide travel 272 mm (10.7")

Top slide travel 160 mm (6.3")
Whitworth threads: Kinds / Range 45 Kinds / 2~72 T.P.I.

 Threads and Feeds
 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 mm (0.0015"~0.04")

Cross feeds 0.02~0.5 mm (0.00075"~0.02")

Quill diameter d68 mm (2.677")

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

Motor Main spindle 7,5HP 10HP

Coolant pump 1/8HP

Weight (Net /Gross) Approx. 1700 / 2000 kgs 1850 / 2150 kgs 1750 / 2050 kgs 1900 / 2200 kgs

Measurement Length 2400 mm (94.5") 2900 mm (114.2") 2400 mm (94.5") 2900 mm (114.2")

Packing sizes Width x Height Width 1155 mm (45.5") x Height 1745 mm (68.7")

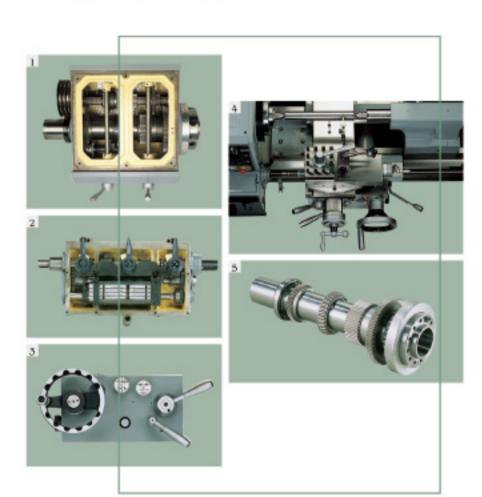
Specifications subject to change without notice







Photo shown model: ML-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 80mm (3.149") spindle bore, ASA D1-6.
- All models cross slide is hardened and ground to prolong operation life.

- · All castings are properly stabilized and stress relieved.
- . Bed ways are hardened & ground to min. HS-70.
- . 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.
- III HEADSTOCK . Housing is vibration-absorbent, deflection-free.
 - . Gears are hardened & MAAG or REISHAUER ground.
- 12I GEAR BOX Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- |3| APRON R/H or L/H wheel can be available on request.
 - Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.
- I4I CARRIAGE & SLIDE Anti-Float design backlash eliminator fitted in cross slide nut. • Safety clutch at feed shaft. • One shot lubrication in carriage & top slide. • Dual dials supply inch system screw. • Metric dial supply metric system only. SAFETY FEATURES • Nylon safety gears in end train.
 - Shear pin in leadscrew.
- 151 HEAVY DUTY SPINDLE Proven design of same models but with big spindle bore (80mm) to offer you more efficient, durable operation. • Spindle machined from forged alloy steel, hardened, ground & treated by dynamically balanced. •The spindle is supported at three-point by high precision taper roller and ball bearings keeps rigid, high accuracy.



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

OPTIONAL ACCESSORIES:

- 3-Jaws scroll 10" chuck
- 4-Jaws Independent 10" chuck
- 5C collet closer attachment
- 5C collets (metric or inch)
- Driving plate with dog
- Chuck safety guard
- Hydraulic copying attachment
- Tool post grinder attachment
- Taper turning attachment
- 10 Electrical system for CE
- 11 Protect cover on leadscrew for CE
- 12 Steady rest w/ball bearing
- 13 Follow rest w/bronze tip
 - Faceplate 12"

- 14 Drill chuck & arbor
- 15 Rotating center MT.4
- 16 Halogen lamp
- 17 Quick change tool post
- 18 Carriage micro stop set
- 19 Digital read out system
- 20 Full length splash guard



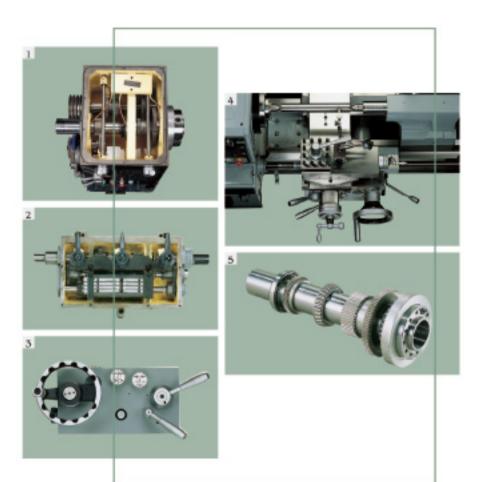
			IVIL-1760	IVIL-2	000	IVIL-1760V	IVIL-2060V		
	MODEL								
	Height of cente	ers	216 mm (8.5°)	254 m	m (10")	216 mm (8.5")	254 mm (10")		
	Swing over bed	1	ø432 mm (17")	ø508 n	nm (20")	ø432 mm (17")	ø508 mm (20°)		
	Swing in gap		ø622 mm (24.48")	ø698 mr	n (27.48°)	ø622 mm (24.48*)	ø698 mm (27.48")		
Capacity	Swing over cro	ss slide	ø277 mm (10.9°)	ø353 mr	n (13.89°)	ø277 mm (10.9°)	ø353 mm (13.89")		
	Distance between	en centers	1000 mm (40") 1500 mm (60")	1000 mm (40')	1500 mm (80°)	1000 mm (40°) 1500 mm (60°)	1000 mm (40") 1500 mm (6		
	Width of bed		305 mm (12")						
	Gap width in fro	ont of faceplate	195 mm (7.67*)						
	Spindle nose, i	nternal taper		D	1-6, ø85 mr	m Taper 1/19.18			
	Spindle center	sleeve		ø85	mm Taper 1	L/19.18 x MT. No.5			
Handstool.	Spindle bore				ø80 mr	n (3.149")			
Headstock and Main Spindle	Spindle speed:	Gear steps / Range	_A36 B130_1	6-1800 R.P. 50 70 80 250 00 1200 1	M. 105 380 800	M _ 1	30~125 R.P.M. 25~450 R.P.M. 0~2200 R.P.M.		
	Length on bed	/ Width of carriag	ie .	440	mm (17.32	") / 477 mm (18.77")			
Carriage	Cross slide trav		235 mm (9.25*)	272 mm		235 mm (9.25")	272 mm (10.7°)		
oumago	Top slide travel		160 mm (6.3")						
	Whitworth three	ads: Kinds / Rang	te .	45 Kinds / 2~72 T.P.I.					
TI I.	Metric threads: Kinds / Range		39 Kinds / 0.2~14 mm						
Threads	D.P. threads: K	linds / Range	21 Kinds / 8-44 D.P.						
and	M.P. threads: I	Kinds / Range	18 Kinds / 0.3-3.5 M.P.						
Feeds	Longitudinal fe	eds	0.04-1.0 mm (0.0015"-0.04")						
	Cross feeds		0.02-0.5 mm (0.00075"-0.02")						
	Quill diameter		ø59 mm (2.322")						
Tailstock	Quill travel		127 mm (5')						
	Taper of center		MT.No.4						
	Main spindle		7.5HP			AC 5.5kW (7.5HP), Inverter			
Motor	Forced lubrication for HD.		1/4HP						
	Coolant pump					/8HP			
	Weight (Net /G	ross) Approx.	2000kgs 2150kgs		2200kgs	1700 kgs 1850 kgs 2000kgs 2150kgs	1750 kgs 1900 kgs / 2050kgs 2200kgs		
Measurement		Length	(94.5") (114.2")	2400 mm (94.5")	2900 mm (114.2°)	2400 mm 2900 mm (94.5") (114.2")	2400 mm 2900 mm (94.5") (114.2")		
	Packing sizes	Width x Height		Width 1120 mm (44.1") x Height 1745 mm (68.7")					







Photo shown model : CL-1740



- III HEADSTOCK Housing is vibration-absorbent, deflection-free. • Gears are hardened & MAAG or REISHAUER ground. • Spindle machined from forged alloy steel, hardened, ground & treated by dynamically balanced.
- [2] GEAR BOX Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- APRON R/H or L/H wheel can be available on request.
 Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.

CL-1740/1760 -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.

- · All castings are properly stabilized and stress relieved.
- . Bed ways are hardened & ground to min. HS-70.
- . 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.
- 141 CARRIAGE & SLIDE Anti-Float design backlash eliminator fitted in cross slide nut. • Safety clutch at feed shaft. • One shot lubrication in carriage & top slide. • Dual dials supply inch system screw. • Metric dial supply metric system only. SAFETY FEATURES • Nylon safety gears in end train.
 - Shear pin in leadscrew.
- 151 HEAVY DUTY SPINDLE •The spindle is supported at three-point by high precision taper roller and ball bearings keeps rigid, high accuracy.



- Backplate for 9" chuck
- 2 Dead center MT.4
- 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

OPTIONAL ACCESSORIES:

- 1 3-Jaws scroll 9" chuck
- 4-Jaws independent 9" chuck
- 3 5C collet closer attachment
- 4 5C collets (metric or inch)
- 5 Driving plate with dog
- 6 Chuck safety guard
- 7 Hydraulic copying attachment
- Tool post grinder attachment
- Taper turning attachment
- 10 Electrical system for CE
- 11 Protect cover on leadscrew for CE
- 12 Steady rest w/ball bearing
- 13 Follow rest w/bronze tip
- 14 Faceplate 12"

- 15 Drill chuck & arbor
- 16 Rotating center MT.4
- 17 Halogen lamp
- 18 Quick change tool post
- 19 Carriage micro stop set
- 20 Digital read out system
- 21 Full length splash guard



	MODEL								
	Height of cente	ers			216 mm	(8.5")			
	Swing over bed	i	ø432 mm (17*)						
	Swing in gap				ø622 mm	(24.48")			
Capacity	Swing over cro	ss slide			ø277 mm	(10.9")			
dupudity	Distance between	een centers	1000 mm (40°)		1500 mm (60")	1000 mm (40°)	1500 mm (60")		
	Width of bed				305 m	m (12')			
	Gap width in fr	ont of faceplate	120 mm (4.72")						
	Spindle nose,	internal taper			D1-6, N	/IT.No.6			
	Spindle center	sleeve			MT. No.6	KMT. No.4			
	Spindle bore				ø52.5 mn	n (2.066")			
Headstock			8 steps						
and		Gear steps		/80~	2000 R.P.M.	2 stone L 20	400 R.P.M.		
Main Spindle	Spindle speed	: /	OPT.			2 steps / = = = =	2500 P.P.M		
		Range	16 steps /		40~1000 R.P.M.	4P H 400~2500 R.P.M.			
			4P / 8P	4P	80~2000 R.P.M.	Infinitely variable			
	Length on bed	/ Width of carriage			440 mm (17.32") / 477 mm (18.77°)			
Carriage	Cross slide trav	vel	235 mm (9.25")						
	Top slide trave	1	160 mm (6.3°)						
	Whitworth thre	ads: Kinds / Range	45 Kinds / 2—72 T.P.I.						
Thomas	Metric threads: Kinds / Range		39 Kinds / 0.2~14 mm						
Threads	D.P. threads: k	Kinds / Range	21 Kinds / 8-44 D.P.						
and	M.P. threads:	Kinds / Range	18 Kinds / 0.3-3.5 M.P.						
Feeds	Longitudinal fe		0.04~1.0 mm (0.0015"~0.04")						
	Cross feeds		0.02~0.5 mm (0.00075*~0.02*)						
	Quill diameter		ø59 mm (2,322")						
Tailstock	Quill travel		127 mm (5°)						
	Taper of cente	r	MT.No.4						
	Main spindle		5HP 4P OPT, 7.5	HP 4P	/3.75 HP 8P	AC 3.7kW (5H	IP), Inverter		
Motor	Forced lubricat	tion for HD.				1/4	10.57		
1010101	Coolant pump				1.	/8HP			
	Weight (Net /G	iross) Approx.	1600 kgs / 1900	kgs	1850 kgs / 2150 kgs	1600 kgs / 1900 kgs	1850 kgs / 2150 k		
Measurement		Length	2400 mm (94.5		2900 mm (114.2°)	2400 mm (94.5°)	2900 mm (114.2°)		
	Packing sizes Width x Height		2400 mm (94.5						
		widur x rieignt	Width 1120 mm (44.1") x Height 1745 mm (68.7")						







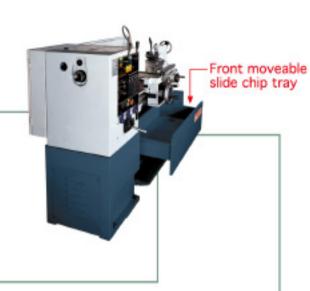
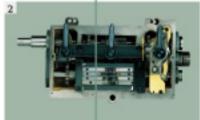


Photo shown model: TML-1640











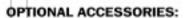
- HEADSTOCK Housing is vibration-absorbent, deflection-free.
 Gears are hardened & MAAG or REISHAUER ground.
- 12I GEAR BOX Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- APRON R/H or L/H wheel can be available on request.
 Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.

- · 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 castings are properly stabilized and stress relieved.
- Bed ways are hardened & ground to min. HS-70.
- . 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.
- 14I CARRIAGE & SLIDE Anti-Float design backlash eliminator fitted in cross slide nut. • Safety clutch at feed shaft. • One shot lubrication in carriage & top slide. • Dual dials supply inch system screw. • Metric dial supply metric system only. SAFETY FEATURES • Nylon safety gears in end train.
 - Shear pin in leadscrew.
- 15I HEAVY DUTY SPINDLE Machined from forged alloy steel, hardened ground & dynamically balanced. • Three point support by high grade precision, machine tool taper roller & ball bearings.



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



- 3-Jaws scroll 9" chuck
- 4-Jaws independent 10" chuck
- 3 5C collet closer attachment
- 4 5C collets (metric or inch)
- 5 Driving plate with dog
- 6 Chuck safety guard

Capacity

- Hydraulic copying attachment
- Tool post grinder attachment
- Taper turning attachment
- 10 Electrical system for CE
- 11 Protect cover on leadscrew for CE
- 12 Steady rest w/ball bearing
- 13 Follow rest w/bronze tip
- 14 Faceplate 12"

- 14 Drill chuck & arbor
- Rotating center MT.4
- 16 Halogen lamp
- 17 Quick change tool post
- 18 Carriage micro stop set
- 19 Digital read out system
 - Full length splash guard

TML-1640

TML-1660

1500 mm (60°)

205 mm (8.07°)

12 steps / 36~1800 R.P.M.

MODEL

Height of centers Swing over bed

ø410 mm (16.14") Swing in gap ø583 mm (22.95") Swing over cross slide ø262 mm (10.3")

1000 mm (40") Distance between centers

260 mm (10.236") Width of bed 135 mm (5.31°) 225 mm (8.85") Gap width in front of faceplate

D1-6, MT. No.6 Spindle nose, internal taper Spindle center sleeve MT. No.6 x MT. No.4 ø52.5 mm (2.066')

Spindle bore Headstock

and Gear steps

36 50 Main Spindle Spindle speed: - 250 M 130 180 250 380 H 620 900 1200 1800 Range

Length on bed / Width of carriage 513 mm (20.19") / 412 mm (16.22")

Carriage Cross slide travel 220 mm (8.6") Top slide travel 130 mm (5.1") 45 Kinds / 2~72 T.P.I. Whitworth threads: Kinds / Range

Metric threads: Kinds / Range 39 Kinds / 0.2~14 mm **Threads** D.P. threads: Kinds / Range 21 Kinds / 8~44 D.P. and M.P. threads: Kinds / Range 18 Kinds / 0.3 - 3.5 M.P. Feeds Longitudinal feeds 0.05~1.7 mm (0.002"~0.067")

0.025~0.85 mm (0.001"~0.034") Cross feeds Quill diameter ø52 mm (2.47")

Quill travel 152 mm (6") Tailstock MT.No.4 Taper of center 5HP Main spindle

Motor 1/8HP Coolant pump

Weight (Net /Gross) Approx. 1500 / 1650 kgs 1600 / 1750 kgs Measurement 2270 mm (89.4°) 2785 mm (109.7") Length

Packing sizes Width x Height Width 1120 mm (44.1") x Height 1745 mm (68.7")



RML Series



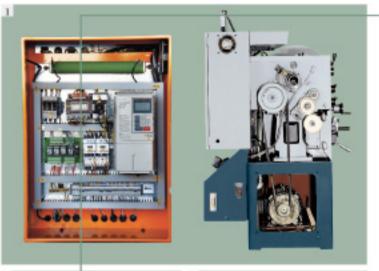
RML-1440/1460 -1640/1660



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



Photo shown model: RML-1440



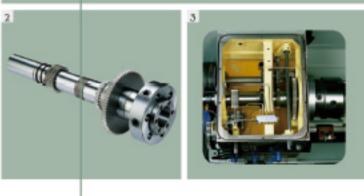


Photo shown model : RML-1640V w/protect cover on leadscrew

- 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 castings are properly stabilized and stress relieved.
- . Bed ways are hardened & ground to min. HS-70.
- . 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.
- 11 E.V.S. MODEL ELECTRIC CONTROL CE electric on request.
 - The electric cabinet is sealed protected against entrance of water, dirt and other contaminants.
 A main disconnect switch provided.
 Electric 1/4HP pump for headstock pressure lubrication.
 - Prolong life expectancy of gears and spindle. Combination of forced lubrication and oil bath system in headstock.
- 12I HEAVY DUTY SPINDLE Machined from forged alloy steel, hardened ground & dynamically balanced. • Supported by three points precision bearings (2 taper roller & 1 ball bearing).
- E.V.S. HEADSTOCK Forced lubrication to all running points.
 Hardened & ground gears and shafts. R.P.M. LED display
 - Hardened & ground gears and shafts. R.P.M. LED display indicator makes it easy to obtain the optional constant surface speed also improves cutting tool life. • Electronic control panel located on top head stock, with RPM display unit, speed control electric knob, emergency stop and motor start push button.
 - Electronic infinitely variable speed with A.C. motor inverter.
 - Two headstock gear speed ranges supply a high torque in low range from 20 up to 400 RPM and in high range from 400 up to 2500 R.P.M.



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

OPTIONAL ACCESSORIES:

- 3-Jaws scroll 9" chuck
- 4-Jaws independent 10" chuck
- 3 5C collet closer attachment
- 4 5C collets (metric or inch)
- 5 Driving plate with dog
- 6 Chuck safety guard
- Hydraulic copying attachment
- Tool post grinder attachment
- Taper turning attachment
- 10 Electrical system for CE
- 11 Protect cover on leadscrew for CE
- 12 Steady rest w/ball bearing
- 13 Follow rest w/bronze tip
 - Faceplate 12"

- 15 Drill chuck & arbor
- 16 Rotating center MT.4
- 17 Halogen lamp
- 18 Quick change tool post
- 19 Carriage micro stop set
- 20 Digital read out system
- 21 Full length splash guard

		RML-1440 RML-1460	RML-1640 RML-1660	RML-1440V RML-1460V	RML-1640V RML-1660V
	MODEL				
	Height of centers	180 mm (7.08")	205 mm (8.07")	180 mm (7.08")	205 mm (8.07°)
	Swing over bed	ø360 mm (14.17°)	ø410 mm (16.14°)	ø360 mm (14.17°)	ø410 mm (16.14")
	Swing in gap	ø533 mm (20.98°)	ø583 mm (22.95°)	ø533 mm (20.98°)	ø583 mm (22.95")
Capacity	Swing over cross slide	ø212 mm (8.35°)	ø262 mm (10.3°)	ø212 mm (8.35°)	ø262 mm (10.3")

260 mm (10.236") Spindle nose, internal taper Spindle center sleeve

Gap width in front of faceplate 135 mm (5.31') 225 mm (8.85') 135 mm (5.31') 225 mm (8.85') 135 mm (5.31') 225 mm (8.85')

1000 mm (40") 1500 mm (60") 1000 mm (40") 1500 mm (60") 1000 mm (40") 1500 mm (60") 1000 mm (40") 1500 mm (60")

D1-6, MT, No.6 MT, No.6 x MT, No.4 ø52.5 mm (2.066*)

Headstock and Main Spindle

Gear steps Spindle speed:

Range

Swing over cross slide Distance between centers

Spindle bore

8 steps / 70~1800 R.P.M. 4P /

OPT. 16 steps / 8P _ 4P 40~1000 R.P.M. 80~2000 R.P.M. 4P / 8P

4P H 400~2500 R.P.M. 25~3000 R.P.M. (OPT.)

Infinitely variable

513 mm (20.19") / 412 mm (16.22") Length on bed / Width of carriage Cross slide travel 220 mm (8.6°) Carriage Top slide travel 130 mm (5.1") 45 Kinds / 2-72 T.P.I. Whitworth threads: Kinds / Range 39 Kinds / 0.2-14 mm Metric threads: Kinds / Range Threads D.P. threads: Kinds / Range 21 Kinds / 8-44 D.P. and M.P. threads: Kinds / Range 18 Kinds / 0.3-3.5 M.P. Feeds Longitudinal feeds

0.05~1.7 mm (0.002"~0.067") Cross feeds 0.025~0.85 mm (0.001"~0.034") ø52 mm (2.047")

Quill diameter Tailstock Quill travel

Taper of center Main spindle Forced lubrication for HD.

Length

5HP4P OPT.5HP 4P / 2.5HP 8P AC 3.7kW (5HP), Inverter 1/4HP

Motor Coolant pump

1350 kgs 1450 kgs 1400 kgs 1500 kgs 1500kgs 1600kgs

1550kgs 1650kgs

1350 kgs 1450 kgs 1500kgs 1600kgs 2270 mm 2785 mm (89.4°) (109.7°)

1400 kgs 1500 kgs 1550kgs 1650kgs 2270 mm 2785 mm (89.4°) (109.7°)

Width 1120 mm (44.1") x Height 1745 mm (68.7")

152 mm (6")

MT. No.4

1/8HP

Weight (Net /Gross) Approx. Measurement

Packing sizes Width x Height

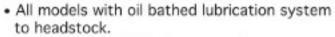




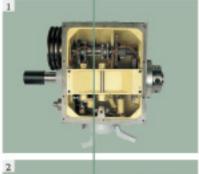
Photo shown model: ERL-1340 w/protect cover on leadscrew

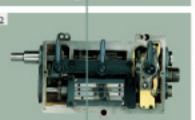


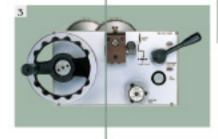
Photo shown model: ERL-1340V

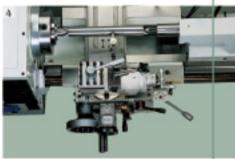


- All models meet CE. (on request)
- All models with 40mm (1.57") spindle bore, ASA D1-4.











- · All castings are properly stabilized and stress relieved.
- Bed ways are hardened & ground to min. HS-70.
- · 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.
- 11 HEADSTOCK . Housing is vibration-absorbent, deflection-free.
 - Gears are hardened & MAAG or REISHAUER ground.
- 12I GEAR BOX Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- [3] APRON R/H or L/H wheel can be available on request.
 - Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.
- [4] CARRIAGE & SLIDE Anti-Float design backlash eliminator fitted in cross slide nut. • Safety clutch at feed shaft. • One shot lubrication in carriage & top slide. • Dual dials supply inch system screw. • Metric dial supply metric system only. SAFETY FEATURES • Nylon safety gears in end train.
 - Shear pin in leadscrew.
- 15| HEAVY DUTY SPINDLE Machined from forged alloy steel, hardened ground & dynamically balanced. • Two point support by high grade precision, machine tool taper roller.



- 1 Backplate for 7" chuck
- 2 Dead center MT.3
- 3 Dead 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

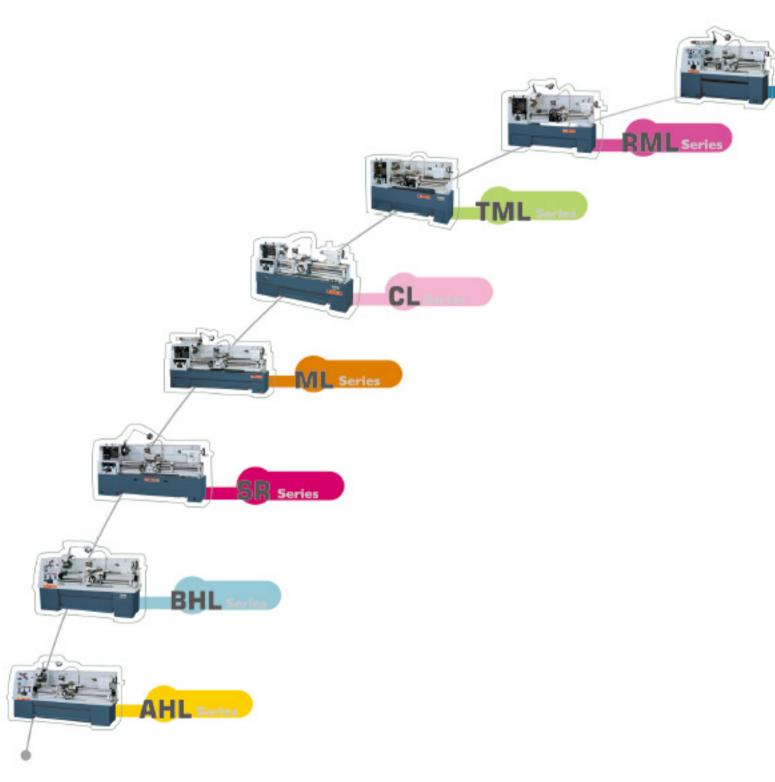


- 1 3-Jaws scroll 7" chuck
- 2 4-Jaws independent 8" chuck
- 3 5C collet closer attachment
- 4 5C collets (metric or inch)
- 5 Driving plate with dog
- 6 Chuck safety guard
- Hydraulic copying attachment
- 8 Tool post grinder attachment
- 9 Taper turning attachment
- 10 Electrical system for CE
- 11 Protect cover on leadscrew for CE
- 12 Steady rest w/ball bearing
- 13 Follow rest w/bronze tip
- 14 Faceplate 12"

- 15 Drill chuck & arbor
- 16 Rotating center MT.3
- 17 Halogen lamp
- 18 Quick change tool post
- 19 Carriage micro stop set
- 20 Digital read out system
- 21 Full length splash guard



	MODEL								
	Height of cente	ers		171 mm	(6.73")				
	Swing over bed	i	ø342 mm (13.46°)						
	Swing in gap			ø512 m	m (20") Not available for	1330			
Capacity	Swing over cro	ss slide		ø205 mm (8.07")					
	Distance between	een centers	760 mm (30")	1000 mm (40°)	760 mm (30°)	1000 mm (40")			
	Width of bed		230 mm (9°)						
	Gap width in front of faceplate		150 mm (5')						
	Spindle nose,	internal taper		D1-4, N					
	Spindle center	sleeve		MT. No.5					
Headatack	Spindle bore			ø40 mm	(1.57")				
Headstock and Main Spindle	Gear steps Spindle speed: / Range		8 steps 4P /80~ OPT. 16 steps / 4P - 2P / 4P	-500 R.P.M. -3000 R.P.M.					
	Length on bed	/ Width of carriage	400 mm (15.748°) / 384 mm (15.118°)						
Carriage	Cross slide travel		180 mm (7")						
ouago	Top slide travel	ı	100 mm (4")						
	Whitworth thre	ads: Kinds / Range		45 Kinds	s / 2~72 T.P.I.				
Throads	Metric threads:	: Kinds / Range	39 Kinds / 0.2~14 mm						
Threads	D.P. threads: Kinds / Range		21 Kinds / 8-44 D.P.						
and Feeds	M.P. threads:	Kinds / Range	18 Kinds / 0.3-3.5 M.P.						
Leenz	Longitudinal fe	eds	0.05~1.7 mm (0.002"~0.067")						
	Cross feeds			0.025-0.85 r	nm (0.001"-0.034")				
	Quill diameter		ø50 mm (1.968")						
Tailstock	Quill travel			112 mm (4.5")					
	Taper of center	r		٨	AT.No.3				
Motor	Main spindle Coolant pump		3HP 4P 0PT.5	HP 2P/2.5HP 4P	AC 2.2kW 1/8HP	(3HP), Inverter			
	Weight (Net /G	iross) Approx.	850 / 1000 kgs	1000 / 1200 kgs	850 / 1000 kgs	1000 / 1200 kgs			
Measurement		Length	2000 mm (78.8")	2270 mm (89.4")	2000 mm (78.8")	2270 mm (89.4°)			





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