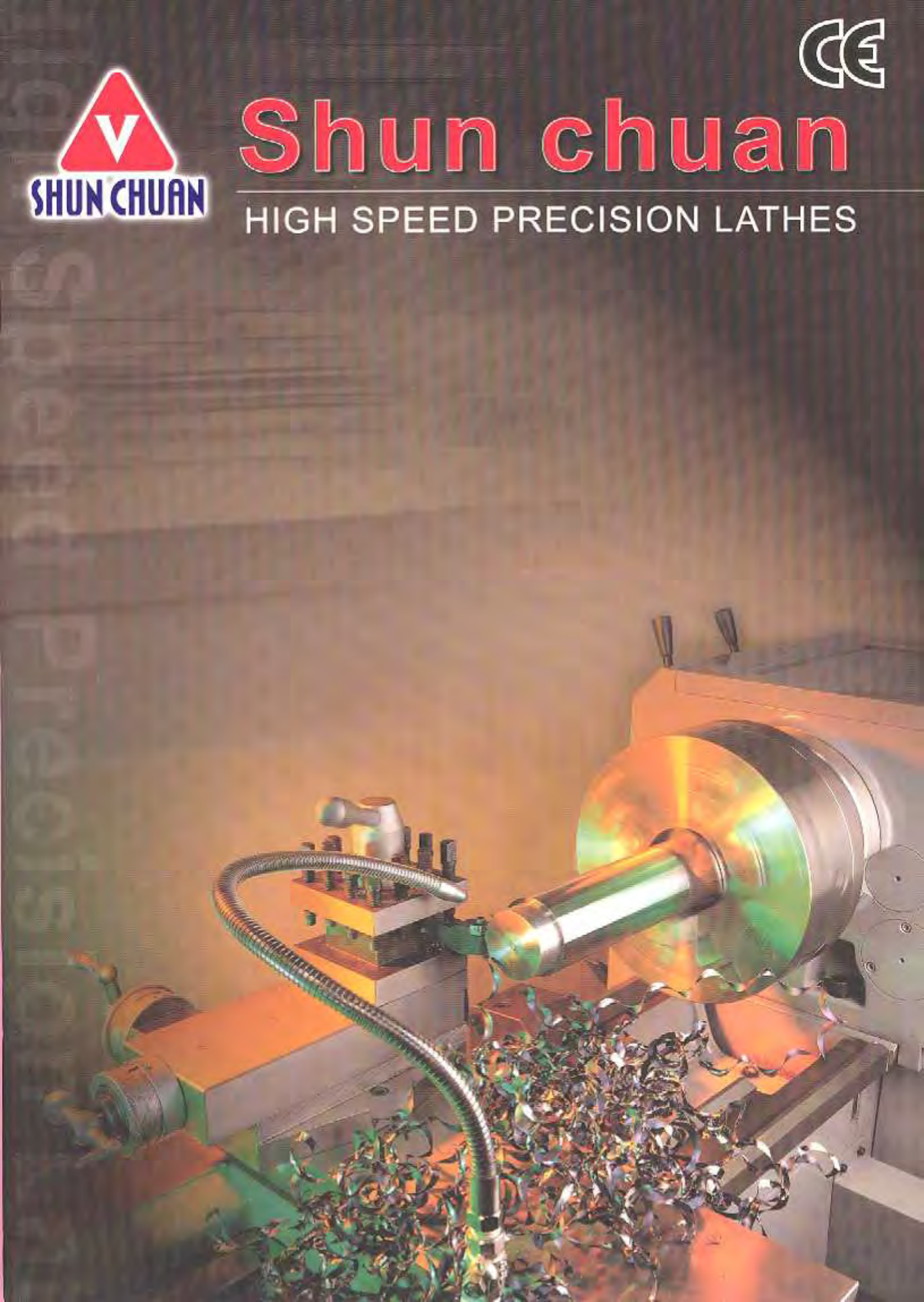




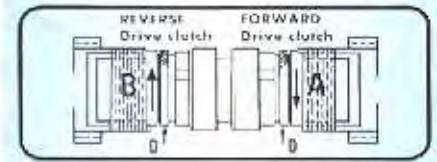
Shun chuan

HIGH SPEED PRECISION LATHES





- All models with mechanical clutch, (not included 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.



Model

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

Photo shown model : AHL-1860 W/protect cover on leadscrew



Features

- All casting 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 paddle provided.
- Built-in coolant pump & fitting provided.
- CSS on request for E.V.S model.
- Wider bed way which give vibration-absorbent.

Model

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

Photo shown model : AHL-2160V





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.



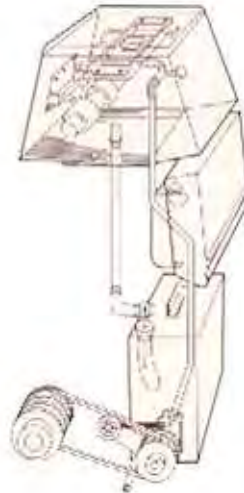
BED

- Meehanite casting, vibration stress relieved
- Induction hardened and precision ground bed ways.
- Precision hand scraped removable gap



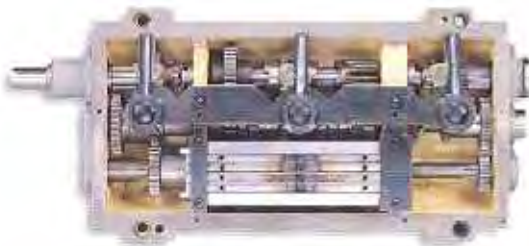
HEADSTOCK

- Housing is vibration-absorbent, deflection free.
- Gears are hardened & MAAG or REISHAUER ground.



LUBRICATION

- Oil sight window for efficient check of oil level.
- Pressure lubrication system in headstock can ensure its lubricated and cooling when high speed cutting.
- Employed splash lubrication in gearbox & apron.



GEAR BOX

- Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- Induction hardened & precision ground gears.



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

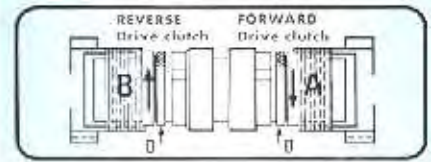
APRON

- R/H or L/H wheel can be available on request.
- Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.





- All models with mechanical clutch. (not included 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(22") spindle bore, ASA D1-6.



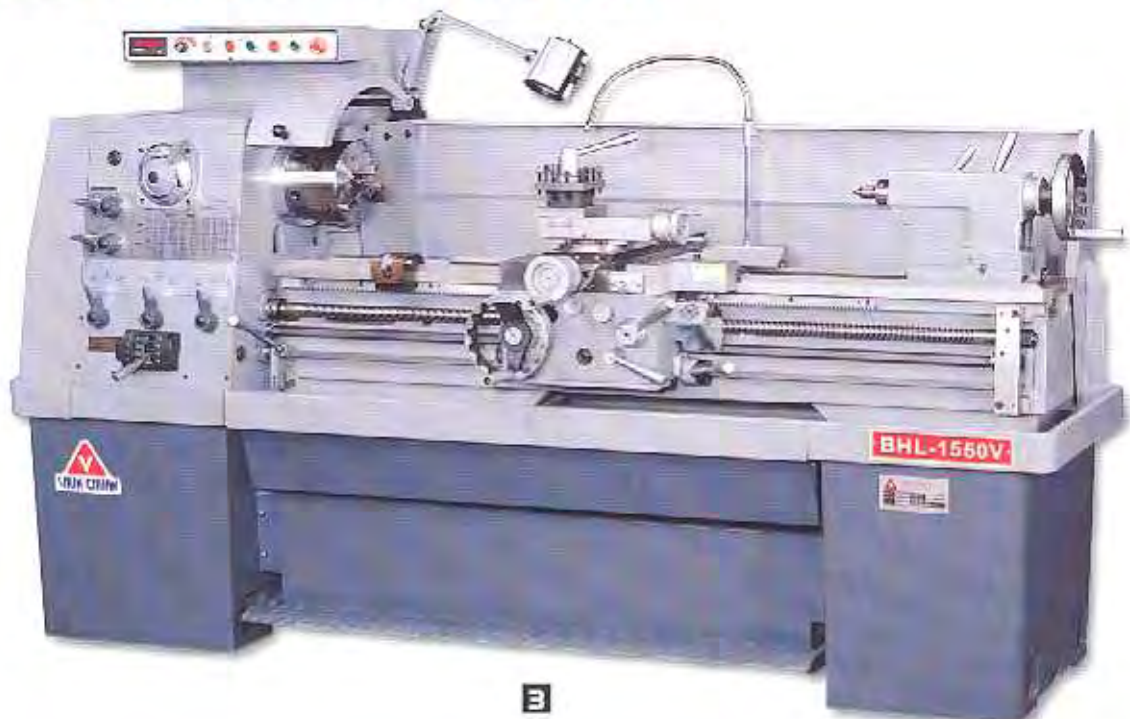
BHL-1550 Photo shown model : BHL-1550 W/protect cover on leadscrew



Features

- All casting 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 paddle provided.
- Built-in coolant pump & fitting provided.
- CSS on request for E.V.S model.
- Wider bed way which give vibration-absorbent.

BHL-1550V Photo shown model : BHL-1550V





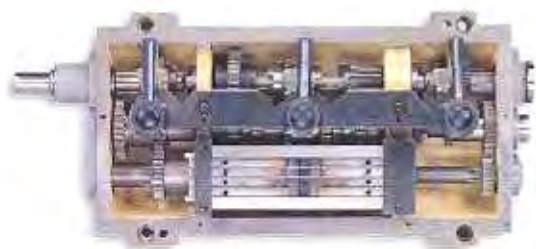
HEAVY DUTY SPINDLE

- Machined from forged alloy steel, hardened, ground & dynamically balanced.
- Three point support by high grade precision, machine tool taper roller & ball bearings



HEADSTOCK

- Housing is vibration-absorbent, deflection-free
- Gears are hardened & MAAG or REISHAUER ground.



GEAR BOX

- Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.



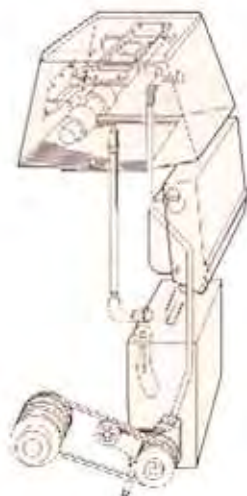
APRON

- R/H or L/H wheel can be available on request.
- Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.



BED

- Meehanite casting, vibration stress relieved.
- Induction hardened and precision ground bed ways.
- Precision hand scraped removable gap.



LUBRICATION

- Oil sight window for efficient check of oil level
- Pressure lubrication system in headstock can ensure its lubricated and cooling when high speed cutting.
- Employed splash lubrication in gearbox & apron



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

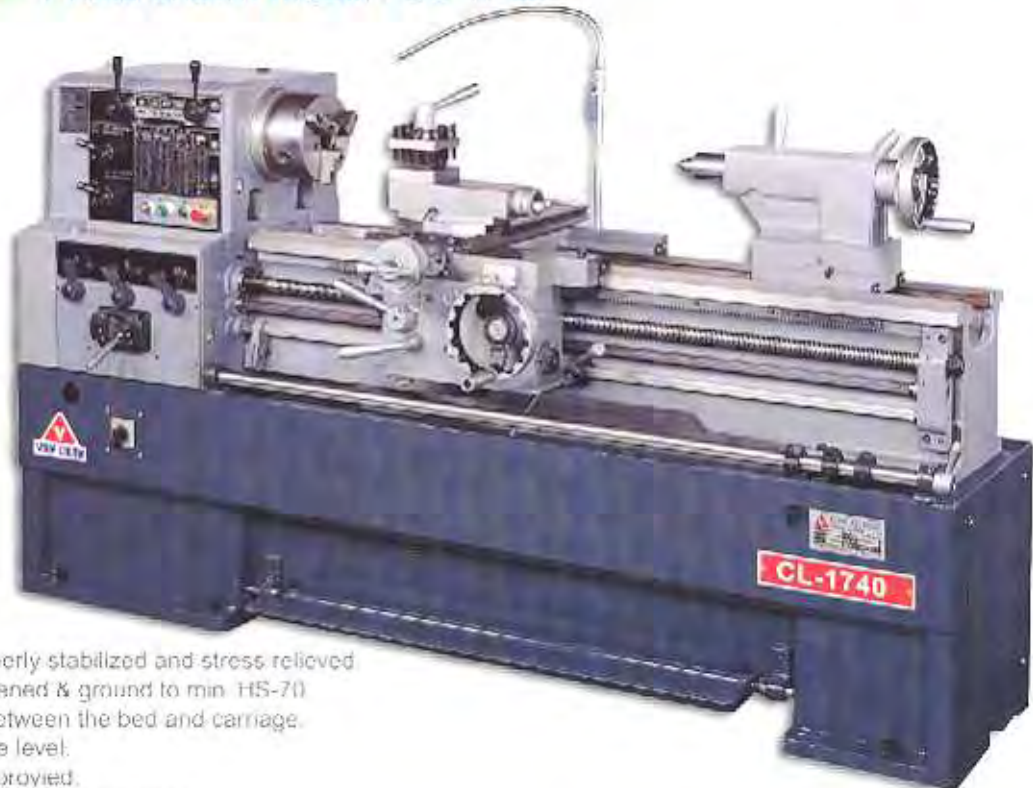


- E.V.S. models with auto lubrication system to headstock & external tank for cooling the oil.
- All models with one piece solid stand.
- All models with universal feed gearbox & reversable apron.
- All models meet CE (on request)
- ML models with 80mm(3.149") spindle bore, ASA D1-6
- All models cross slide is hardened and ground to prolong operation life.

Model

CL-1730 / CL-1740 / CL-1760 CL-1730V / CL-1740V / CL-1760V

Photo shown model : CL-1740



Features

- All casting are properly stabilized and stress relieved
- Bed ways are hardened & ground to min. H5-70
- Turcite B coating between the bed and carriage.
- Extremely low noise level.
- Foot brake paddle provided.
- Built in coolant pump & fitting provided.
- CSS on request for E.V.S model
- Wider bed way which give vibration-absorbent.

Model

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

Photo shown model : ML-1760V





HEAVY DUTY SPINDLE

- ◆ Proven design of same models but with big spindle bore ($\varnothing 80\text{mm}$) to offer you more efficient, durable operation.



BED

- ◆ Meehanite casting, vibration stress relieved.
- ◆ Induction hardened and precision ground bed ways.
- ◆ Precision hand scraped removable gap.



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.
- ◆ The spindle is supported at three-point by high precision taper roller and ball bearings keeps rigid, high accuracy.



APRON

- ◆ R/H or L/H wheel can be available on request.
- ◆ Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.



GEAR BOX

- ◆ Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.



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.



- 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.

Model RML-1440 / RML-1460 RML-1640 / RML-1660
Photo shown model : RML-1440



Features

- All casting are properly stabilized and stress relieved
- Bed ways are hardened & ground to mm. HS-70
- Turcite B coating between the bed and carriage.
- Extremely low noise level.
- Foot brake paddle provided.
- Built-in coolant pump & fitting provided
- CSS on request for E.V.S model.
- Wider bed way which give vibration-absorbent.



• CSS Device

Model RML-1440V / RML-1460V RML-1640V / RML-1660V
Photo shown model : RML-1640V W/protect cover on leadscrew





HEAVY DUTY SPINDLE

- Machined from forged alloy steel, hardened, ground & dynamically balance.
- Three point support by high grade precision, machine tool taper roller & ball bearings.



E.V.S. HEADSTOCK

- Forced lubrication to all running points.
- Hardened & ground gears and shafts.
- Spindle is supported by three points precision bearings (2 taper roller & 1 ball bearing)
- Dynamic balanced spindle.



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.



BED

- One piece casting base.
- Meehanite casting, vibration stress relieved.
- Induction hardened and precision ground bed ways.
- Precision hand scraped removable gap.



- Electronic 1/4HP pump for headstock pressure lubrication.
- Prolong life expectancy of gears and spindle.
- Combination of forces lubrication and oil bath system in headstock.

Nylon safety gears in end train.



- 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, light indicator for high-low speed ratio, 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



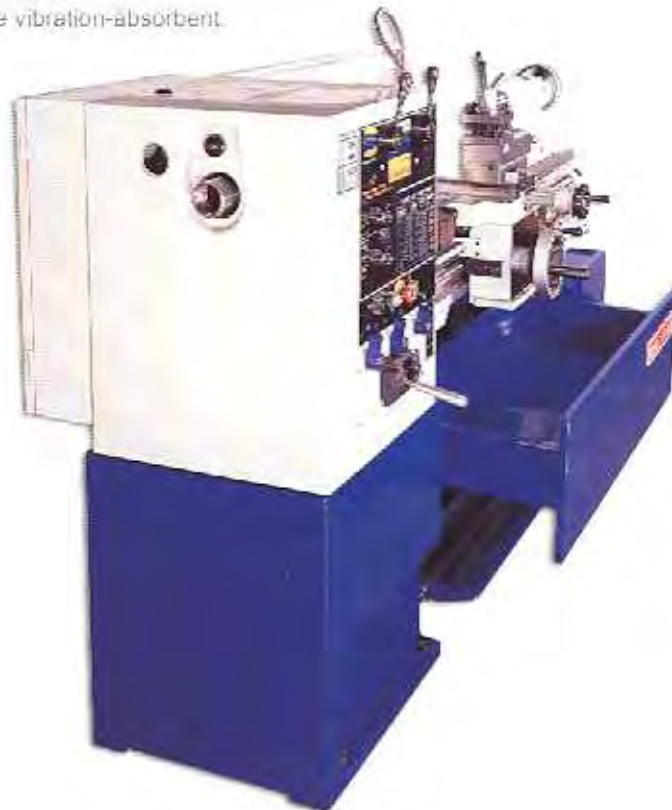
- E.V.S. models with auto lubrication system to headstock & external tank for cooling the oil.
- All models with one piece solid stand.
- All models with universal feed gearbox & reversable apron.
- All models meet CE (on request)
- All models with 52.5mm(2.066") spindle bore. ASA D1-6.

Model TML-1640 / TML-1660
Photo shown model : TML-1640



Features

- All casting 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 paddle provided.
- Built-in coolant pump & fitting provided.
- Wider bed way which give vibration-absorbent.





HEAVY DUTY SPINDLE

- Machined from forged alloy steel, hardened, ground & dynamically balance.
- Three point support by high grade precision, machine tool taper roller & ball bearings.



BED

- One piece casting base.
- Meehanite casting, vibration stress relieved.
- Induction hardened and precision ground bed ways.
- Precision hand scraped removable gap.



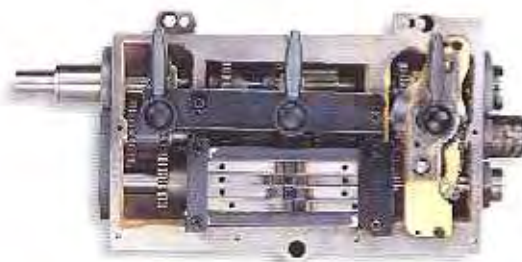
HEADSTOCK

- Housing is vibration-absorbent, deflection-free.
- Gears are hardened & MAAG or REISHAUER ground.



APRON

- R/H or L/H wheel can be available on request.
- Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.



GEAR BOX

- Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.



CARRIAGE & SLIDE

- Anti-Finat 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.



- 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.

Model

ERL-1330 / ERL-1340

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



Features

- All casting are properly stabilized and stress relieved.
- Bed ways are hardened & ground to min. HS 70
- Extremely low noise level.
- Foot brake paddle provided.
- Built-in coolant pump & fitting provided
- CSS on request for E.V.S model.
- Wider bed way which give vibration absorbent.

Model

ERL-1330V / ERL-1340V

Photo shown model : ERL-1340V





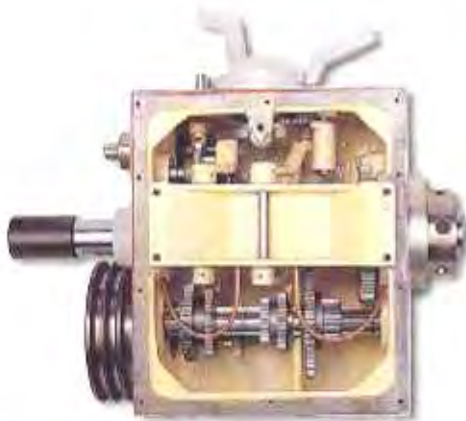
HEAVY DUTY SPINDLE

- Machined from forged alloy steel, hardened ground & dynamically balance.
- Three point support by high grade precision machine tool taper roller & ball bearings



BED

- Meehanite casting, vibration stress relieved
- Induction hardened and precision ground bed ways.
- Precision hand scraped removable gap



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.
- The spindle is supported at two-point by high precision taper roller and ball bearings keeps rigid, high accuracy.



APRON

- R/H or L/H wheel can be available on request.
- Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.



GEAR BOX

- Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears..



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.

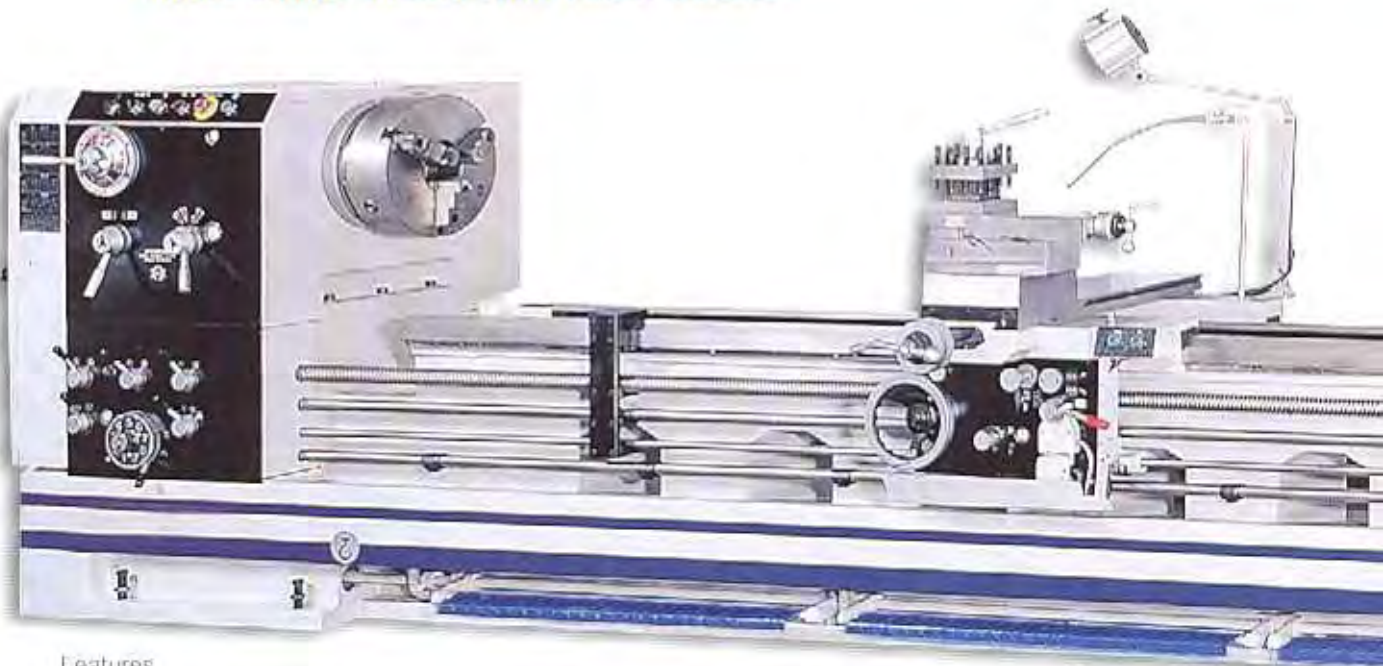
SAFETY FEATURES

- Nylon safety gears in end train.
- Shear pin in leadscrew.



- All models with pressure pump lubrication system to headstock
- All models meet CE (on request)
- All models with ϕ 105mm(4.133") spindle bore, ASA D1-11 or ASA A1-11
- All models with ϕ 155mm(6.102") spindle bore, ASA A2-11 (optional)
- All models cross slide is hardened and ground to prolong operation life
- All models slide screw oil bathed reducible abrasion

Model HR-680 x 1000G , 1500G ,2000G , 2500G , 3000G , 3500G , 4000G , 5000G , 6000G
 HR-780 x 1000G , 1500G ,2000G , 2500G , 3000G , 3500G , 4000G , 5000G , 6000G
 HR-880 x 1000G , 1500G ,2000G , 2500G , 3000G , 3500G , 4000G , 5000G , 6000G
 Photo shown model : HR-780 x 4000G



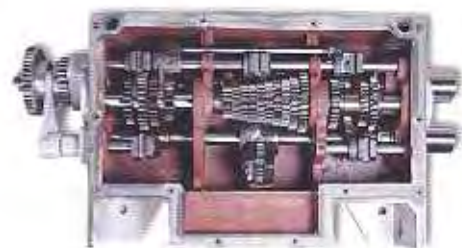
Features

- All casting 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 paddle provided
- Built-in coolant pump & fitting provided.
- Wider bed way which give vibration absorbent.



APRON

- R/H or L/H wheel can be available on request.
- Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.
- Rapid speed for longitudinal & cross slide



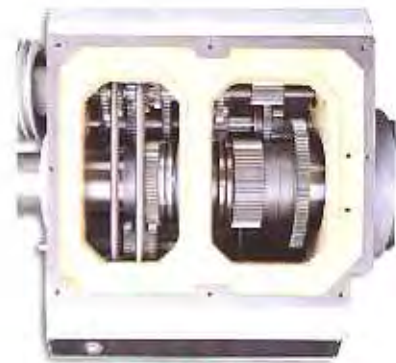
GEAR BOX

- Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- Induction hardened & precision shaving gears.



BED

- One piece casting plinth with bed
- Melanite casting, vibration stress relieved
- Induction hardened and precision ground bed ways.
- Precision hand scraped removable gap.



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.
- The spindle is supported at three-point by high precision taper roller and ball bearings keeps rigid, high accuracy



TAILSTOCK

- A large tailstock quill ϕ 105mm (4.133") with 1:1 and 1:4 changeable lead, it offers easy drilling

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

- Shear pin in leadscrew.



MODEL		AHL-1840 AHL-1860 AHL-1880	AHL-2140 / AHL-2160 AHL-2180 / AHL-21120	AHL-1840V AHL-1860V AHL-1880V	AHL-2140V / AHL-2160V AHL-2180V / AHL-21120V
Capacity	Height of centers	230mm (9.055")	271mm (10.67")	230mm (9.055")	271mm (10.67")
	Swing over bed	φ460mm (18.11")	φ533mm (8.11")	φ460mm (18.11")	φ533mm (8.11")
	Swing in gap	φ710mm (27.95")	φ790mm (31.10")	φ710mm (27.95")	φ790mm (31.10")
	Swing over cross slide	φ280mm (11.02")	φ356mm (14.01")	φ280mm (11.02")	φ356mm (14.01")
	Distance between centers	1000mm (40") 1500mm (60") 2000mm (80")	1000mm (40") 1500mm (60") 2000mm (80")	1000mm (40") 1500mm (60") 2000mm (80")	1000mm (40") 1500mm (60") 2000mm (80")
	Width of bed	345mm (13.58")			
	Gap width in front of faceplate	255mm (10")			
Headstock & Main spindle	Spindle nose, Internal taper	D1-8 MT No. 7			
	Spindle center sleeve	MT No. 7 x MT No. 5			
	Spindle bore	φ80mm (3.149")			
	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 forward/Reverse		4 steps / L 18 ~ 55 R.P.M. M 55 ~ 180 R.P.M. MH 180 ~ 600 R.P.M. H 600 ~ 1800 R.P.M. Infinitely variable	
Carriage	Length on bed / Width of carriage	543mm (21.37") / 542mm (21.33")			
	Cross slide travel	280mm (11.02")			
	Top slide travel	137mm (5.39")			
Threads & Feeds	Whitworth threads: Kinds	45 Kinds			
	Range	2 ~ 72 T.P.I.			
	Metric threads: Kinds	39 Kinds			
	Range	0.2 ~ 14mm			
	D.P. threads: Kinds	21 Kinds			
	Range	8 ~ 44 D.P.			
	M.P. threads: Kinds	18 Kinds			
Range	0.3 ~ 3.5 M.P.				
Tailstock	Longitudinal feeds	0.04 ~ 1.0 mm (0.0015" ~ 0.04")			
	Cross feeds	0.02 ~ 0.5 mm (0.00075" ~ 0.02")			
	Quill diameter	φ76mm (2.322")			
	Quill travel	165mm (6.5")			
Motor	Taper of center	MT, No.5			
	Main spindle	10HP	12.5HP	AG 9.375kW (12.5HP), Inverter	
	Forced lubrication for HD	-----			1/4HP
Measurement	Coolant pump	1/8HP			
	Weight (Net / Gross) Approx.	2400kgs 2750kgs 3700kgs	2900kgs 2650kgs 3000kgs	2000kgs 2350kgs 2700kgs	2300kgs 2650kgs 3000kgs
	Packing sizes	2350kgs 2700kgs 3100kgs	2650kgs 3000kgs 3400kgs	1550kgs 2700kgs 3100kgs	2650kgs 3000kgs 3400kgs
Packing sizes	Length	2935mm (99.6") 3035mm (119.5") 3035mm (119.5")	2935mm (99.6") 3035mm (119.5") 3035mm (119.5")	2935mm (99.6") 3035mm (119.5") 3035mm (119.5")	2935mm (99.6") 3035mm (119.5") 3035mm (119.5")
	WidthxHeight	Width 1120mm (44.1") x Height 1745mm (68.7")			

Specification subject to change without notice

STANDARD ACCESSORIES

1. Backplate for 12" chuck
2. Dead center MT.5 made of carbon steel
3. Dead center MT.5 with carbide tip
4. Spindle center sleeve MT.7 x MT.5
5. Level pads.....8pcs
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
4. 5C collets (metric or inch)
5. Chuck safety guard
6. Hydraulic copying attachment
7. Tool post grinder attachment
8. Taper turning attachment
9. Electrical system for CE
10. Protect cover on leadscrew for CE
11. Steady rest w/ball bearing
12. Follow rest w/bronze tip
13. 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
20. Full length splash guard

MODEL		BHL-1550	BHL-1550V
Capacity	Height of centers	190mm (7.48")	
	Swing over bed	φ387mm (15.23")	
	Swing in gap	φ610mm (24")	
	Swing over cross slide	φ238mm (9.37")	
	Distance between centers	1250mm (50")	
	Width of bed	280mm (11")	
	Gap width in front of faceplate	265mm (10.43")	
Headstock & Main spindle	Spindle nose, Internal taper	D1-6 . MT. No.4	
	Spindle center sleeve	MT. No.6 x MT. No.4	
	Spindle bore	φ56mm (2.2")	
Main spindle	Gear steps	16 steps : 25 - 2000 R.P.M. Green 25 80 250 840 Yellow 33 108 350 1120 Red 45 140 470 1500 Blue 60 190 625 2000	4 steps : L 22 - 72 R.P.M. M 70 - 235 R.P.M. MH 235 - 780 R.P.M. H 753 - 2500 R.P.M.
	Spindle speed: Range	"MATRIX" 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	120mm (4.72")	
Threads & Feeds	Whitworth threads: Kinds	45 Kinds	
	Whitworth threads: Range	2 - 72 T.P.I.	
	Metric threads: Kinds	39 Kinds	
	Metric threads: Range	0.2 - 14mm	
	D.P. threads: Kinds	21 Kinds	
	D.P. threads: Range	8 - 44 D.P.	
Tailstock	M.P. threads: Kinds	18 Kinds	
	M.P. threads: Range	0.3 - 3.5 M.P.	
	Longitudinal feeds	0.04 - 1.0mm (0.0015" - 0.04")	
	Cross feeds	0.02 - 0.5mm (0.00075" - 0.02")	
	Quill diameter	φ59mm (2.322")	
	Quill travel	127mm (5")	
	Taper of center	MT. No.4	
Motor	Main spindle	7.5HP	AC 5.5kW (7.5HP). Inverter
	Forced lubrication for HD.	-----	1/4HP
	Coolant pump	1/8HP	
Measurement	Weight (Net/Gross) Approx.	1450kgs 1700kgs	
	Packing sizes Length WidthxHeight	2580mm (101.58") Width 1120mm (44.1") x Height 1745mm (68.7")	

Specification subject to change without notice

STANDARD ACCESSORIES

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

OPTIONAL ACCESSORIES

1. 3-Jaws scroll 9" chuck
2. 4-Jaws independent 10" chuck
3. SC collet closer attachment
4. SC collets (metric or inch)
5. Driving plate with dog
6. Chuck safety guard
7. 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.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	ML-1740		ML-2040		ML-1740V		ML-2040V					
	ML-1760		ML-2060		ML-1760V		ML-2060V					
Capacity	Height of centers		216mm (8.5")		254mm (10")		216mm (8.5")		254mm (10")			
	Swing over bed		φ435mm (17")		φ508mm (20")		φ435mm (17")		φ508mm (20")			
	Swing in gap		φ622mm (20.98")		φ698mm (27.48")		φ622mm (20.98")		φ698mm (27.48")			
	Swing over cross slide		φ227mm (10.9")		φ353mm (13.89")		φ227mm (10.9")		φ353mm (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 of faceplate				195mm (7.67")							
Headstock & Main spindle	Spindle nose, Internal taper				D1-6, φ85mm Taper 1/19.18							
	Spindle center sleeve				φ85mm Taper 1/19.18 x MT. No.5							
	Spindle bore				φ80mm (3.149")							
	Gear steps		12 steps		36 ~ 1800 R.P.M.		3 steps		L 30 ~ 125 R.P.M.			
Carriage	Spindle speed, Range		L 36 50 70 105		M 130 180 250 380		H 620 900 1200 1800		M 125 ~ 450 R.P.M.		H 450 ~ 2200 R.P.M.	
	Length on bed / Width of carriage				440mm (17.32") / 477mm (18.77")							
	Cross slide travel				270mm (10.62")							
	Top slide travel				120mm (4.72")							
Threads & Feeds	Whitworth threads, Kinds				45 Kinds							
	Range				2 ~ 72 T.P.I.							
	Metric threads, Kinds				39 Kinds							
	Range				0.2 ~ 14mm							
Threads & Feeds	D.P. threads, Kinds				21 Kinds							
	Range				8 ~ 44 D.P.							
	M.P. threads, Kinds				18 Kinds							
	Range				0.3 ~ 3.5 M.P.							
Tailstock	Longitudinal feeds				0.04 ~ 1.0mm (0.0015" ~ 0.04")							
	Cross feeds				0.02 ~ 0.5mm (0.00075" ~ 0.02")							
	Quill diameter				φ59mm (2.322")							
	Quill travel				127mm (5")							
Motor	Taper of center				MT. No.4							
	Main spindle				7.5HP				AC 5.5kW (7.5HP), Inverter			
	Forced lubrication for HD.								1/4HP			
Measurement	Coolant pump				1/8HP							
	Weight (Net/Gross) Approx.		1700kgs	1850kgs	1750kgs	1900kgs	1700kgs	1850kgs	1750kgs	1900kgs	1700kgs	1850kgs
	Length		3000kgs	2150kgs	2050kgs	2200kgs	2000kgs	2150kgs	2050kgs	2200kgs	2000kgs	2150kgs
	Packing sizes WidthxHeight		2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")	2400mm (94.5")	2900mm (114.2")
				Width 1120mm (44.1")				Height 1745mm (68.7")				

Specification subject to change without notice

STANDARD ACCESSORIES

1. Backplate for 10" chuck
2. Dead center MT.5 made of carbon steel
3. Dead center MT.4 with carbide tip
4. Spindle center sleeve
..... φ85mm Taper 1/19.18 x MT.5
5. Level pads.....6pcs
6. Tool set & Box
7. Operation manual & parts list

OPTIONAL ACCESSORIES

1. 3-Jaws scroll 10" chuck
2. 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
7. 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.4
17. Halogen lamp
18. Quick chang tool post
19. Carriage micro stop set
20. Digital read out system
21. Full length splash guard

MODEL		CL-1730	CL-1740	CL-1760	CL-1730V	CL-1740V	CL-1760V	
Capacity	Height of centers	216mm (8.5")						
	Swing over bed	φ435mm (17")						
	Swing in gap	φ622mm (20.98")						
	Swing over cross slide	φ277mm (10.9")						
	Distance between centers	760mm(30")	1000mm(40")	1500mm(60")	760mm(30")	1000mm(40")	1500mm(60")	
	Width of bed	305mm (12")						
	Gap width in front of faceplate	120mm (4.72")						
Headstock & Main spindle	Spindle nose, internal taper	D1 6 . MT. No.6						
	Spindle center sleeve	MT. No.6 x MT. No.4						
Main spindle	Spindle bore	φ52.5mm (2.066")						
	Gear steps	8 steps 4P	80 ~ 2000 R.P.M.		2 steps 4P	L 20 ~ 400 R.P.M.		
		Spindle speed:	OPT. 16 steps 4P / 2P	4P 40 ~ 1000 R.P.M. 2P 80 ~ 2000 R.P.M.		H 400 ~ 2500 R.P.M.		
Range		Infinitely variable						
Carriage	Length on bed / Width of carriage	440mm (17.32") / 477mm (18.77")						
	Cross slide travel	270mm (10.62")						
	Top slide travel	120mm (4.72")						
Threads & Feeds	Whitworth threads:	Kinds	45 Kinds					
		Range	2 ~ 72 T.P.I.					
	Metric threads:	Kinds	39 Kinds					
		Range	0.2 ~ 14mm					
	D.P. threads:	Kinds	21 Kinds					
		Range	8 ~ 44 D.P.					
	M.P. threads:	Kinds	18 Kinds					
		Range	0.3 ~ 3.5 M.P.					
Longitudinal feeds	0.04 ~ 1.0mm (0.0015" ~ 0.04")							
Cross feeds	0.02 ~ 0.5mm (0.00075" ~ 0.02")							
Tailstock	Quill diameter	φ59mm (2.322")						
	Quill travel	127mm (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.	-----				1/4HP		
	Coolant pump	1/8HP						
Measurement	Weight (Net/Gross) Approx.		1500kgs 1800kgs	1600kgs 1000kgs	1650kgs 2150kgs	1500kgs 1800kgs	1600kgs 1000kgs	1650kgs 2150kgs
	Packing sizes	Length	2150mm (84.7")	2400mm (94.5")	2900mm (114.2")	2150mm (84.7")	2400mm (94.5")	2900mm (114.2")
		WidthxHeight	Width 1120mm (44.1") x Height 1745mm (68.7")					

Specification subject to change without notice

STANDARD ACCESSORIES

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

OPTIONAL ACCESSORIES

1. 3-Jaws scroll 9" chuck
2. 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
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.4
17. Halogen lamp
18. Quick chang tool post
19. Carriage micro stop set
20. Digital read-out system
21. Full length splash guard





MODEL		RML-1440 RML-1460		RML-1640 RML-1660		RML-1440V RML-1460V		RML-1640V RML-1660V		
Capacity	Height of centers	180mm (7.08")		205mm (8.07")		180mm (7.08")		205mm (8.07")		
	Swing over bed	φ360mm (14.17")		φ410mm (16.14")		φ360mm (14.17")		φ410mm (16.14")		
	Swing in gap	φ533mm (20.98")		φ583mm (22.95")		φ533mm (20.98")		φ583mm (22.95")		
	Swing over cross slide	φ214mm (8.42")		φ264mm (10.39")		φ214mm (8.42")		φ264mm (10.39")		
	Distance between centers	1000mm (39")	1500mm (60")	1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")	
	Width of bed	260mm (10.236")								
	Gap width in front of faceplate	135mm (5.31")	225mm (8.85")	135mm (5.31")	225mm (8.85")	135mm (5.31")	225mm (8.85")	135mm (5.31")	225mm (8.85")	
Headstock & Main spindle	Spindle nose, internal taper	D1-6 MT, No.6								
	Spindle center sleeve	MT, No.6 x MT, No.4								
	Spindle bore	φ52.5mm (2.066")								
	Gear steps	8 steps 4P 70 ~ 1800 R.P.M.				2 steps 4P L 20 ~ 400 R.P.M. H 400 ~ 2500 R.P.M.				
	Spindle speed:	OPT. 16 steps 4P/2P 4P 40 ~ 1800 R.P.M. 2P 40 ~ 2000 R.P.M.				Infinitely variable				
Carriage	Length on bed/Width of carriage	513mm (20.19")		412mm (16.22")						
	Cross slide travel	220mm (7")								
	Top slide travel	140mm (5.5")								
Threads & Feeds	Whitworth threads:	Kinds	45 Kinds							
		Range	2 ~ 72 T.P.I.							
	Metric threads:	Kinds	39 Kinds							
		Range	0.2 ~ 14mm							
	D.P. threads:	Kinds	21 Kinds							
		Range	8 ~ 44 D.P.							
M.P. threads:	Kinds	18 Kinds								
	Range	0.3 ~ 3.5 M.P.								
	Longitudinal feeds	0.05 ~ 1.7 mm (0.002" ~ 0.067")								
	Cross feeds	0.025 ~ 0.85mm (0.001" ~ 0.034")								
Tailstock	Quill diameter	φ52mm (2.047")								
	Quill travel	152mm (6")								
	Taper of center	MT, No.4								
Motor	Main spindle	5HP/4P OPT. 5HP/4P 2.5 HP/8P				AC 3.7kW (5HP), Inverter				
	Forced lubrication for HD.	-----				1/4HP				
	Coolant pump	1/8HP								
Measurement	Weight (Net/Gross) Approx.	1350kgs	1450kgs	1400kgs	1500kgs	1350kgs	1450kgs	1400kgs	1500kgs	
		1600kgs	1600kgs	1550kgs	1650kgs	1600kgs	1800kgs	1550kgs	1650kgs	
	Packing sizes	Length	2270mm (89.4")	2785mm (109.7")	2270mm (89.4")	2785mm (109.7")	2270mm (89.4")	2785mm (109.7")	2270mm (89.4")	2785mm (109.7")
Width			1120mm (44.1")		Height		1745mm (68.7")			

Specification subject to change without notice.

STANDARD ACCESSORIES

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

OPTIONAL ACCESSORIES

1. 3-Jaws scroll 9" chuck
2. 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
7. 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.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		TML-1640	TML-1660
Capacity	Height of centers	205mm (8.07")	
	Swing over bed	φ 410mm (16.14")	
	Swing in gap	φ 583mm (22.95")	
	Swing over cross slide	φ 264mm (10.39")	
	Distance between centers	1000mm (40")	1500mm (60")
	Width of bed	260mm (10.236")	
	Gap width in front of faceplate	135mm (5.31")	225mm (8.85")
Headstock & Main spindle	Spindle nose, Internal taper	D1-6 , MT. No.6	
	Spindle center sleeve	MT. No.6 x MT. No.4	
	Spindle bore	φ 52.5mm (2.066")	
Main spindle	Gear steps Spindle speed, Range	12 steps 36 – 1800 R.P.M.	
		L 36 50 70 105	
		M 130 180 250 380	
Carriage	Length on bed / Width of carriage Cross slide travel Top slide travel	513mm (20.19") 412mm (16.22")	
		220mm (8.6")	
		140mm (5.5")	
Threads & Feeds	Whitworth threads:	Kinds	45 Kinds
		Range	2 – 72 T.P.I.
	Metric threads:	Kinds	39 Kinds
		Range	0.2 – 14mm
	D.P. threads:	Kinds	21 Kinds
		Range	8 – 44 D.P.
M.P. threads:	Kinds	18 Kinds	
	Range	0.3 – 3.5 M.P.	
Tailstock	Longitudinal feeds	0.05 – 1.7mm (0.002" ~ 0.067")	
	Cross feeds	0.025 – 0.85mm (0.001" ~ 0.034")	
	Quill diameter	φ 52mm (2.047")	
	Quill travel	152mm (6")	
	Taper of center	MT. No.4	
Motor	Main spindle	5HP	
	Coolant pump	1/8HP	
Measurement	Weight (Net/Gross) Approx.	1500kgs	1600kgs
		1650kgs	1750kgs
	Packing sizes	Length	2270mm (89.4")
	WidthxHeight	Width 1120mm (44.1") x Height 1745mm (68.7")	

Specification subject to change without notice.

STANDARD ACCESSORIES

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

OPTIONAL ACCESSORIES

- 1.3-Jaws scroll 9" chuck
- 2.4-Jaws independent 10" chuck
- 3.5C collet closer attachment
- 4.5C collets (metric or inch)
- 5.Driving plate with dog
- 6.Chuck safety guard
- 7.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.4
- 17.Halogen lamp
- 18.Quick chang tool post
- 19.Carriage micro stop set
- 20.Digital read out system
- 21.Full length splash guard



MODEL		ERL-1330	ERL-1340	ERL-1330V	ERL-1340V
Capacity	Height of centers	170mm (6.69")			
	Swing over bed	φ 340mm (13.38")			
	Swing in gap	φ 512mm (20")			
	Swing over cross slide	φ 210mm (8.26")			
Headstock & Main spindle	Distance between centers	760mm (30")	1000mm (40")	760mm (30")	1000mm (40")
	Width of bed	230mm (9")			
	Gap width in front of faceplate	150mm (6")			
	Spindle nose, internal taper	D1-4 MT. No.5			
	Spindle center sleeve	MT No.5 x MT. No.3			
	Spindle bore	φ 40mm (1.57")			
	Spindle speed:	8 steps 4P 80 - 2000 R.P.M. OPT 16 steps 4P/2P 4P 50-1305 R.P.M. 2P 100-2570 R.P.M.		2 steps L 100-500 H.P.M. 4P H 500-3000 R.P.M. Infinitely variable	
Carnage	Length on bed/Width of carriage	400mm (15.748")		384mm (15.118")	
	Cross slide travel	180mm (7")			
	Top slide travel	100mm (4")			
Threads & Feeds	Whitworth threads:	Kinds 45 Kinds		Range 2 - 72 T.P.I.	
	Metric threads:	Kinds 39 Kinds		Range 0.2 - 14mm	
	D.P. Threads:	Kinds 21 Kinds		Range 8 - 44 D.P.	
	M.P. Threads:	Kinds 18 Kinds		Range 0.3 - 3.5 M.P.	
	Longitudinal feeds:	0.05 - 1.7mm (0.002" - 0.067")			
	Cross feeds	0.025 - 0.85mm (0.001" - 0.034")			
Tailstock	Quill diameter	φ 50mm (1.968")			
	Quill travel	112mm (4.5")			
	Taper of center	MT. No.3			
Motor	Main spindle	3HP4P OPT. 5 HP 2P / 2.5HP 4P		AC 2.2kW (3HP), Inverter	
	Coolant pump	1/8HP			
Measurement	Weight (Net/Gross) approx.	850kgs / 1000kgs	1000kgs / 1200kgs	850kgs / 1000kgs	1000kgs / 1200kgs
	Packing sizes	Length 2000mm (78.8")		Length 2270mm (89.4")	
		WidthxHeight Width 865mm (38") x Height 1745mm (68.7")			

Specification subject to change without notice

STANDARD ACCESSORIES

1. Backplate for 7" chuck
2. Dead center MT .3 made of carbon steel
3. Dead center MT.3 with carbide tip
4. Spindle center sleeve MT.5 x MT.3
5. Level pads8pcs
6. Tool set & Box
7. Operation manual & parts list

OPTIONAL ACCESSORIES

- 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
- 7.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 10"
- 15.Drill chuck & arbor
- 16 Rotating center MT.3
- 17.Halogen lamp
- 18.Quick chang tool post
- 19.Carriage micro stop set
- 20.Digital read out system
- 21 Full length splash guard

MODEL		HR-680				HR-780				HR-880				
Capacity	Height of centers	340mm (13.38")				350mm (13.77")				440mm (17.32")				
	Swing over bed	φ 680mm (26.77")				φ 780mm (30.7")				φ 880mm (34.64")				
	Swing in gap	φ 970mm (38.18")				φ 1070mm (42.12")				φ 1170mm (46.06")				
	Swing over cross slide	φ 440mm (17.32")				φ 540mm (21.25")				φ 640mm (25.19")				
	Distance between centers	120mm (4.72") / 150mm (5.91") / 200mm (7.87") / 250mm (9.84") / 300mm (11.81") / 350mm (13.78") / 400mm (15.75") / 500mm (19.69") / 600mm (23.62")												
	Width of bed					458mm (18")								
	Gap width in front of faceplate					482mm (19")								
Headstock & Main spindle	Spindle nose	D1-11 or A1-11				OPT. A2-11								
	Internal taper	φ 110mm Taper 1/21.6				φ 160.24mm Taper 1/19.002								
	Spindle center sleeve	φ 110mm Taper 1/21.6 x MT No.5				OPT. φ 180.24mm Taper 1/19.002 x MT No.5								
Main spindle	Spindle bore	φ 105mm (4.133")				OPT. φ 155mm (6.102")								
	Spindle speed:	12 steps / 12 - 1000 R.P.M. Green 12 20 29 40 Yellow 55 85 120 175 Red 300 445 650 1000				OPT. 12 steps / 10 - 800 R.P.M. Green 10 17 25 36 Yellow 47 70 100 150 Red 245 370 540 800								
	Range													
Carriage	Length on bed / Width of carriage					640mm (25.19") / 815mm (32.08")								
	Cross slide travel	340mm (13.38")				390mm (15.35")				440mm (17.32")				
	Top slide travel					240mm (9.44")								
Threads & Feeds	Whitworth threads:	Kinds					36 Kinds							
		Range					2 - 28 T.P.I.							
	Metric threads:	Kinds					65 Kinds							
		Range					0.8 - 14mm							
	D.P. Threads:	Kinds					36 Kinds							
		Range					4 - 56 D.P.							
	M.P. Threads:	Kinds					22 Kinds							
		Range					0.5 - 7 M.P.							
	Longitudinal feeds	0.05 - 0.7mm (0.002" - 0.0276")				3 m / min (118.1 ipm)								
	Rapid speed													
Cross feeds	0.025 - 0.35mm (0.001" - 0.0138")				1.5 m / min (59 ipm)									
	Rapid speed													
Tailstock	Quill diameter					φ 105mm (4.133")								
	Quill travel					210mm (8.267")								
Motor	Taper of center					MT. No.6								
	Main spindle					15 HP 4P OPT. 20 HP 4P								
	Rapid feed for longitudinal					1 / 4 HP								
	Coolant pump					1 / 8 HP								
Measurement	Weight (Net / Gross) Approx.	3300kgs	3600kgs	3900kgs	4200kgs	4500kgs	4800kgs	5100kgs	6300kgs	6600kgs				
		3450kgs	3800kgs	4150kgs	4500kgs	4850kgs	5200kgs	5600kgs	7000kgs	7300kgs				
	Packing sizes	Length	2850mm (112.2")	3350mm (131.9")	3850mm (151.6")	4400mm (173.3")	5020mm (197.7")	5550mm (218.5")	5870mm (231.1")	6840mm (269.3")	7880mm (310.3")			
Width x Height		Width 1750mm (68.9") x Height 1850mm (72.9")												

Specification subject to change without notice

STANDARD ACCESSORIES

1. Backplate for 16" chuck
2. Dead center MT.5 made of carbon steel
3. Dead center MT.6 with carbide tip
4. Spindle center sleeve
..... φ 110mm Taper 1/21.6 x MT.5
OPT. φ 180.24mm Taper 1/19.002 x MT.5
5. Level pads.....8pcs (basic amount)
6. Tool set & Box
7. Operation manual & parts list

OPTIONAL ACCESSORIES

1. 3-Jaws scroll 16" chuck
2. 4-Jaws independent 20" chuck
3. Chuck safety guard
4. Drill chuck & arbor
5. Rotating center MT.6
6. Taper turning attachment
7. Electrical system for CE
8. Protect cover on leadscrew for CE
9. Steady rest w/ball bearing
10. Follow rest w/ball bearing
11. Faceplate 24"
12. Carriage micro stop set
13. Digital read out system
14. Full length splash guard
15. Moving rear chip guard

Shun chuan Shun chuan



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