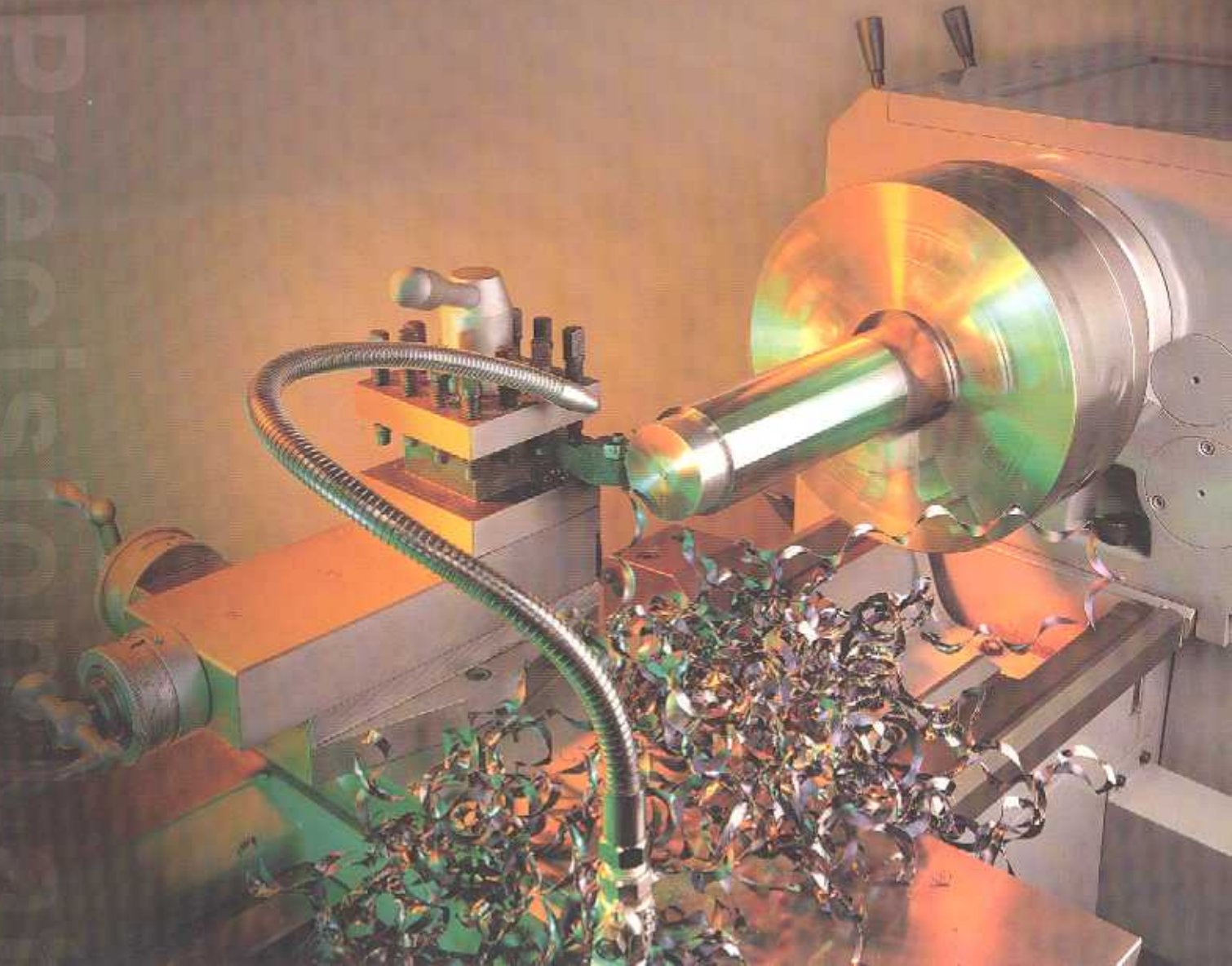




Shun chuan

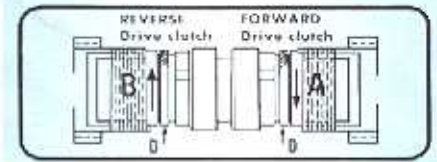
HIGH SPEED PRECISION LATHES

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.



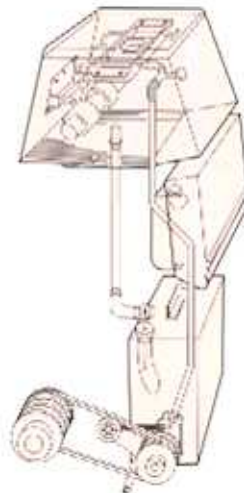
BED

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



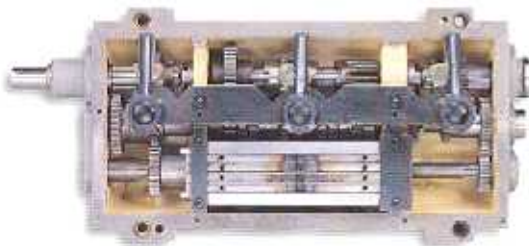
HEADSTOCK

- ◆ 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.



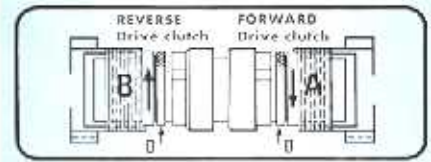
APRON

- ◆ 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

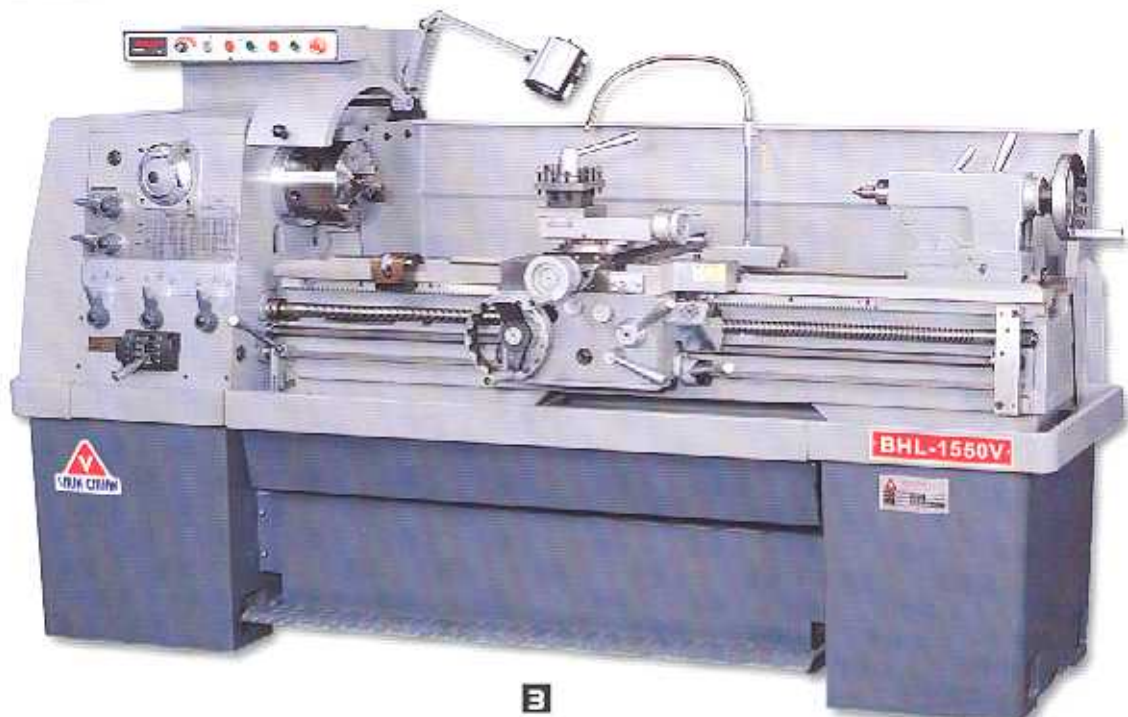


Features

- 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





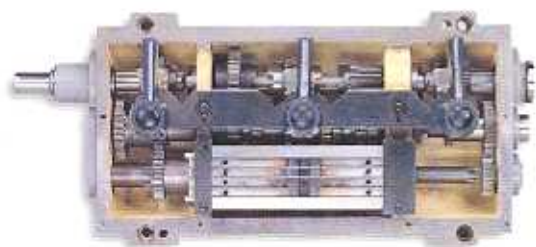
HEAVY DUTY SPINDLE

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



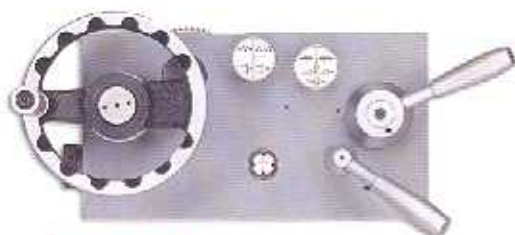
HEADSTOCK

- ◆ 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.



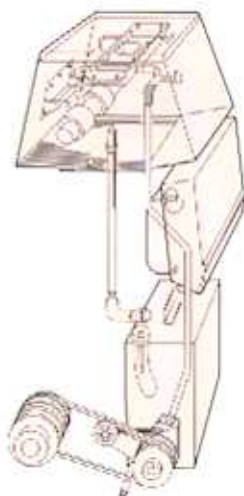
APRON

- ◆ 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. 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

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.



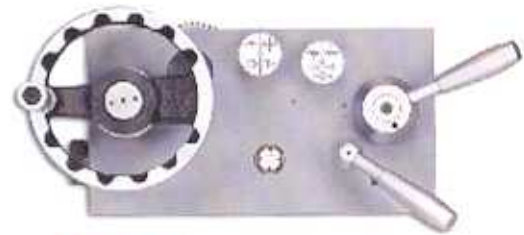
BED

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



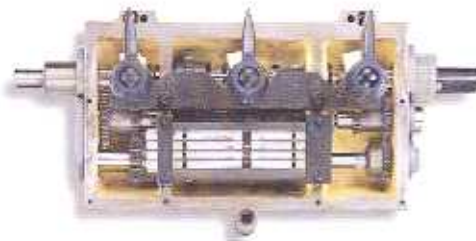
HEADSTOCK

- ◆ 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 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.



• CSS Device

Model

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

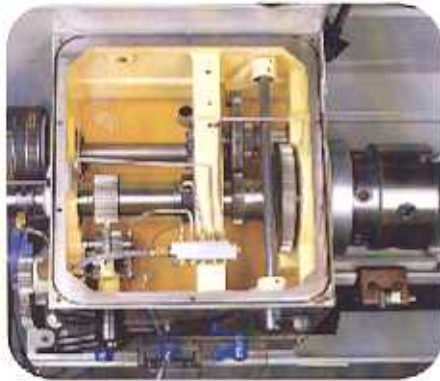
Photo shown model : RML-1640V W/protect cover on leadscrew





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



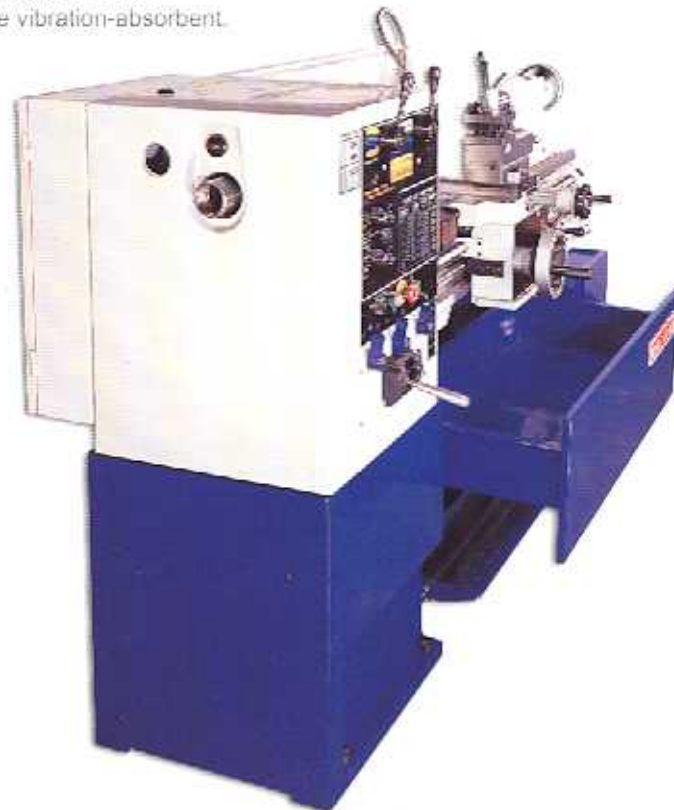
- E.V.S. models with auto lubrication system to headstock & external tank for cooling the oil.
- All models with one piece solid stand.
- All models with universal feed gearbox & reversable apron.
- All models meet CE (on request)
- All models with 52.5mm(2.066") spindle bore, ASA D1-6.

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.



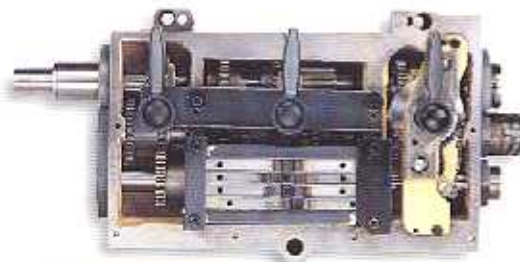
HEADSTOCK

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



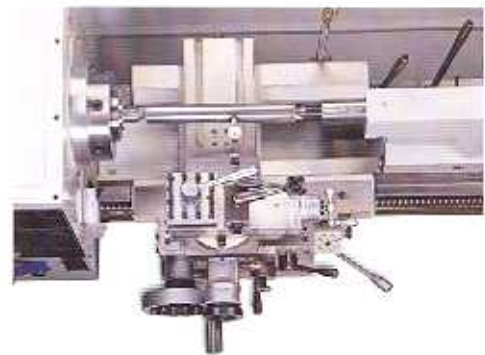
APRON

- ◆ 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-Flout 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





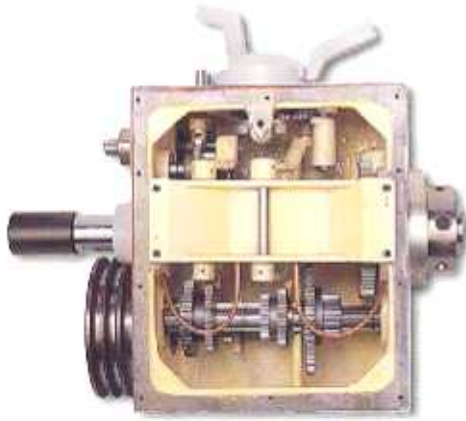
HEAVY DUTY SPINDLE

- ◆ 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.



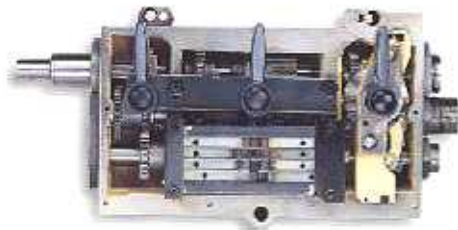
HEADSTOCK

- ◆ 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



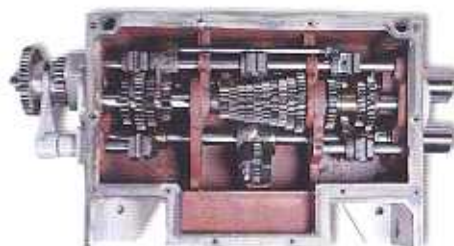
Features

- 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
- ◆ 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



TAILSTOCK

- ◆ A large tailstock quill $\varnothing 105\text{mm}$ (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-2120	AHL-1840V AHL-1860V AHL-1880V	AHL-2140V / AHL-2160V AHL-2180V / AHL-2120V	
Capacity	Height of centers	230mm (9.055")	271mm (10.67")	230mm (9.055")	271mm (10.67")	
	Swing over bed	φ 460mm (18.11")	φ 533mm (8.11")	φ 460mm (18.11")	φ 533mm (8.11")	
	Swing in gap	φ 710mm (27.95")	φ 790mm (31.10")	φ 710mm (27.95")	φ 790mm (31.10")	
	Swing over cross slide	φ 280mm (11.02")	φ 356mm (14.01")	φ 280mm (11.02")	φ 356mm (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	φ 80mm (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.				
Tailstock	M.P. threads: Kinds	18 Kinds				
	Range	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")				
Tailstock	Quill diameter	φ 76mm (2.322")				
	Quill travel	165mm (6.5")				
	Taper of center	MT. No.5				
Motor	Main spindle	10HP	12.5HP	AC 9.375kW (12.5HP), Inverter		
	Forced lubrication for HD	-----			1/4HP	
	Coolant pump	1/8HP				
Measurement	Weight (Net / Gross) Approx.	2000kgs 2350kgs 2700kgs	2900kgs 2650kgs 3000kgs	2000kgs 2350kgs 2700kgs	2300kgs 2650kgs 3000kgs	
	Length	2550mm 3035mm 3535mm	2630mm 3035mm 3535mm	2550mm 3035mm 3535mm	2630mm 3035mm 3535mm	
	Packing sizes	Width x Height	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
3. 12" for 18.... or 14" for 21....
4. 5C collet closer attachment
5. 4.5C collets (metric or inch)
6. Chuck safety guard
7. Hydraulic copying attachment
8. Tool post grinder attachment
9. Taper turning attachment
10. Electrical system 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")	
	Spindle speed: Gear steps / Range	16 steps / 25 - 2000 R.P.M. Green 25 80 260 840 Yellow 33 108 350 1120 Red 45 140 470 1500 Blue 60 190 625 2000 *MATRIX* Disc clutch for Forward/Reverse	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. 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 / Range	45 Kinds / 2 ~ 72 T.P.I.	
	Metric threads: Kinds / Range	39 Kinds / 0.2 ~ 14mm	
	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 ~ 1.0mm (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	7.5HP
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. 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		ML-1740 ML-1760		ML-2040 ML-2060		ML-1740V ML-1760V		ML-2040V 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")								
	Spindle nose, Internal taper	D1-6, φ85mm Taper 1/19.18								
Headstock & Main spindle	Spindle center sleeve	φ85mm Taper 1/19.18 x MT. No.5								
	Spindle bore	φ80mm (3.149")								
Main spindle	Gear steps Spindle speed: Range	12 steps / 36 ~ 1800 R.P.M. L 36 50 70 105 M 130 180 250 380 H 620 900 1200 1800				3 steps / L 30 ~ 125 R.P.M. M 125 ~ 450 R.P.M. H 450 ~ 2200 R.P.M. Infinitely variable				
		Length on bed / Width of carriage 440mm (17.32") / 477mm (18.77")								
Carriage	Cross slide travel	270mm (10.62")								
	Top slide travel	120mm (4.72")								
	Whitworth threads:	Kinds	45 Kinds							
Range		2 ~ 72 T.P.I.								
Threads & Feeds	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 ~ 1.0mm (0.0015" ~ 0.04")								
	Cross feeds	0.02 ~ 0.5mm (0.00075" ~ 0.02")								
	Quill diameter	φ59mm (2.322")								
Motor	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.	1700kgs	1850kgs	1750kgs	1900kgs	1700kgs	1850kgs	1750kgs	1900kgs	
		2000kgs	2150kgs	2050kgs	2200kgs	2000kgs	2150kgs	2050kgs	2200kgs	
	Packing sizes Length 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")	
Width 1120mm (44.1") x 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	
Spindle speed:	Range	OPT. 16 steps 4P / 2P		4P 40 ~ 1000 R.P.M. 2P 80 ~ 2000 R.P.M.		L 20 ~ 400 R.P.M. H 400 ~ 2500 R.P.M. 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.				
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")					
Motor	Quill travel	127mm (5")					
	Taper of center	MT. No.4					
Measurement	Main spindle	5 HP 4P OPT. 7.5HP 4P			3.75 HP 8P		
	Forced lubrication for HD.	-----			AC 3.7kW (.5HP), Inverter		
Measurement	Coolant pump	1/8HP					
	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")	2850mm (114.2")	2150mm (84.7")	2400mm (94.5")	2000mm (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 change 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 (40")	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				2 steps 4P				L 20 ~ 400 R.P.M.
	Spindle speed: Range	OPT. 16 steps 4P/2P				4P 40 ~ 1000 R.P.M. 2P 80 ~ 2000 R.P.M.				H 400 ~ 2500 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								
	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.								
	M.P. threads: Kinds	18 Kinds								
	M.P. threads: 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	5HP4P OPT. 5HP 4P				2 1/2 HP 8P				AC 3.7kW (5HP), Inverter
	Forced lubrication for HD.	-----								
	Coolant pump	-----				1/8HP				1/4HP
Measurement	Weight (Net/Gross) Approx.	1350kgs	1450kgs	1400kgs	1500kgs	1350kgs	1450kgs	1400kgs	1500kgs	
		1600kgs	1600kgs	1550kgs	1650kgs	1600kgs	1600kgs	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")
	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.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")		
Carriage	Gear steps	12 steps 36 - 1800 R.P.M.		
	Spindle speed: Range	L	36 50 70 105	
		M	130 180 250 380	
		H	620 900 1200 1800	
Length on bed / Width of carriage	513mm (20.19")	412mm (16.22")		
Threads & Feeds	Cross slide travel	220mm (8.6")		
	Top slide travel	140mm (5.5")		
Threads & Feeds	Whitworth threads: Kinds Range	45 Kinds		
		2 ~ 72 I.P.I.		
	Metric threads: Kinds Range	39 Kinds		
		0.2 ~ 14mm		
	D.P. threads: Kinds Range	21 Kinds		
		8 ~ 44 D.P.		
M.P. threads: Kinds Range	18 Kinds			
	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")		
Motor	Taper of center	MT. No.4		
	Main spindle	5HP		
	Coolant pump	1/8HP		
Measurement	Weight (Net/Gross) Approx.	1500kgs / 1650kgs	1600kgs / 1750kgs	
	Packing sizes	Length	2270mm (89.4")	2785mm (109.7")
		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.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		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")			
	Distance between centers	760mm (30")	1000mm (40")	760mm (30")	1000mm (40")
Headstock & Main spindle	Width of bed	230mm (9")			
	Gap width in front of faceplate	150mm (5")			
	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")			
Main spindle	Gear steps	8 steps / 4P / 80 - 2000 R.P.M.			2 steps / L 100-500 R.P.M. 4P / H 500-3000 R.P.M. Infinitely variable
	Spindle speed: Range	OPT. 16 steps / 4P/2P / 50-1305 R.P.M. / 100-2570 R.P.M.			
Carriage	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			
	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	0.05 - 1.7mm (0.002" - 0.067")			
	Cross feeds	0.025 - 0.85mm (0.001" - 0.034")			
	Quill diameter	φ 50mm (1.968")			
Motor	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") / 2270mm (89.4") / 2000mm (78.8") / 2270mm (89.4")			
		Width x Height 865mm (38") x 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 pads.....8pcs
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 change 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	1375mm(47") / 1500mm(59") / 2000mm(79") / 2500mm(100") / 3000mm(120") / 3500mm(140") / 4000mm(157") / 5000mm(200") / 6000mm(236")											
	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 160.24mm Taper 1/19.002 x MT No.5							
Carriage	Spindle bore	φ 105mm (4.133")				OPT. φ 155mm (6.102")							
	Spindle speed:	Gear steps 12 steps / 12 ~ 1000 R.P.M.				12 steps / 10 ~ 800 R.P.M.							
	Range	Green 12 20 29 40 Yellow 55 85 120 175 Red 300 445 650 1000				OPT. Green 10 17 25 36 Yellow 47 70 100 150 Red 245 370 540 800							
	Length on bed / Width of carriage					640mm (25.19") / 815mm (32.08")							
	Cross slide travel	340mm (13.38")				390mm (15.35")				440mm (17.32")			
Threads & Feeds	Whitworth threads:	Kinds 36 Kinds				2 ~ 28 T.P.I.							
	Range												
	Metric threads:	Kinds 65 Kinds				0.8 ~ 14mm							
	Range												
	D.P. Threads:	Kinds 36 Kinds				4 ~ 56 D.P.							
	Range												
	M.P. Threads:	Kinds 22 Kinds				0.5 ~ 7 M.P.							
Range													
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")							
	Taper of center					MT. No.6							
Motor	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 160.24mm 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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