



**STANDARD ACCESSORIES:**

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

**OPTIONAL ACCESSORIES:**

- 1 3-Jaws scroll 12" chuck
- 2 4-Jaws independent chuck 12" for 18....or 14" for 21...
- 3 SC collet closer attachment
- 4 SC 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	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
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<b>Capacity</b>	Height of centers 230 mm (9.055") Swing over bed ø460 mm (18.11") Swing in gap ø710 mm (27.95") Swing over cross slide ø280 mm (11.02") Distance between centers 1000 mm 1500 mm 2000 mm 2500 mm 3000 mm 1407 1907 2407 2907 3407	271 mm (10.67") ø533 mm (20.98") ø790 mm (31.10") ø356 mm (14.01") 1500 mm 1900 mm 2300 mm 2700 mm 3100 mm 1607 2007 2407 2807 3207	230 mm (9.055") ø460 mm (18.11") ø710 mm (27.95") ø280 mm (11.02") 1000 mm 1500 mm 2000 mm 2500 mm 3000 mm 1407 1907 2407 2907 3407	271 mm (10.67") ø533 mm (20.98") ø790 mm (31.10") ø356 mm (14.01") 1500 mm 1900 mm 2300 mm 2700 mm 3100 mm 1607 2007 2407 2807 3207
<b>Headstock and Main Spindle</b>	Width of bed 345 mm (13.58") 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")			
<b>Carriage</b>	Length on bed / Width of carriage 543 mm (21.37") / 542 mm (21.33") Cross slide travel 272 mm (10.7") Top slide travel 137 mm (5.39")			
<b>Threads and Feeds</b>	Whitworth threads: Kinds / Range 38 Kinds / 2~72 T.P.I. Metric threads: Kinds / Range 40 Kinds / 0.4~14 mm D.P. threads: Kinds / Range 21 Kinds / 8~44 D.P. M.P. threads: Kinds / Range 18 Kinds / 0.3~3.5 M.P. Longitudinal feeds 0.04~1.0 mm (0.0015"~0.04") Cross feeds 0.02~0.5 mm (0.00075"~0.02")			
<b>Tailstock</b>	Quill diameter ø76 mm (3") Quill travel 165 mm (6.5") Taper of center MT.No.5			
<b>Motor</b>	10HP	12.5HP	AC 9.375KW (12.5HP), Inverter	1/4HP
<b>Measurement</b>	Weight (Net /Gross) Approx. 2000 kgs 2350 kgs 2700 kgs 2300 kgs 2650 kgs 3000 kgs 3700 kgs 2000 kgs 2350 kgs 2700 kgs 2300 kgs 2650 kgs 3000 kgs 3700 kgs 2350 kgs 2700 kgs 3100 kgs 2650 kgs 3000 kgs 3400 kgs 4200 kgs 2350 kgs 2700 kgs 3100 kgs 2650 kgs 3000 kgs 3400 kgs 4200 kgs 2635 mm 3035 mm 3535 mm 2635 mm 3035 mm 3535 mm 4624 mm 2635 mm 3035 mm 3535 mm 2635 mm 3035 mm 3535 mm 4624 mm 106.87 (13.927) 133.927 (10.87) 133.927 (10.87) 133.927 (10.87) 106.87 (13.927) 133.927 (10.87) 133.927 (10.87)			
		Width 1120 mm (44.1") x Height 1745 mm (68.7")		

Specifications subject to change without notice.

# SHUN CHURN SUN MASTER

## HIGH SPEED PRECISION LATHES

### AHL Series

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

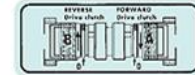
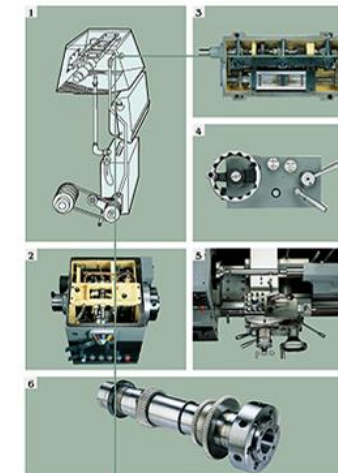


Photo shown model :AHL-21120



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.

**FEATURES**

- 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 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.
- IV 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 dies supply inch system screw. • Metric dial supply metric system only.
- IIII HEADSTOCK • Housing is vibration-absorbent, deflection-free. • Gears are hardened & MAAG or REISHAUER ground.
- SAFETY FEATURES • Nylon safety gears in end train. • Shear pin in leadscrew.
- IIII GEAR BOX • Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears. • Induction hardened & precision ground gears.
- IIII 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.
- IIII APRON • R/H or L/H wheel can be available on request. • Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.