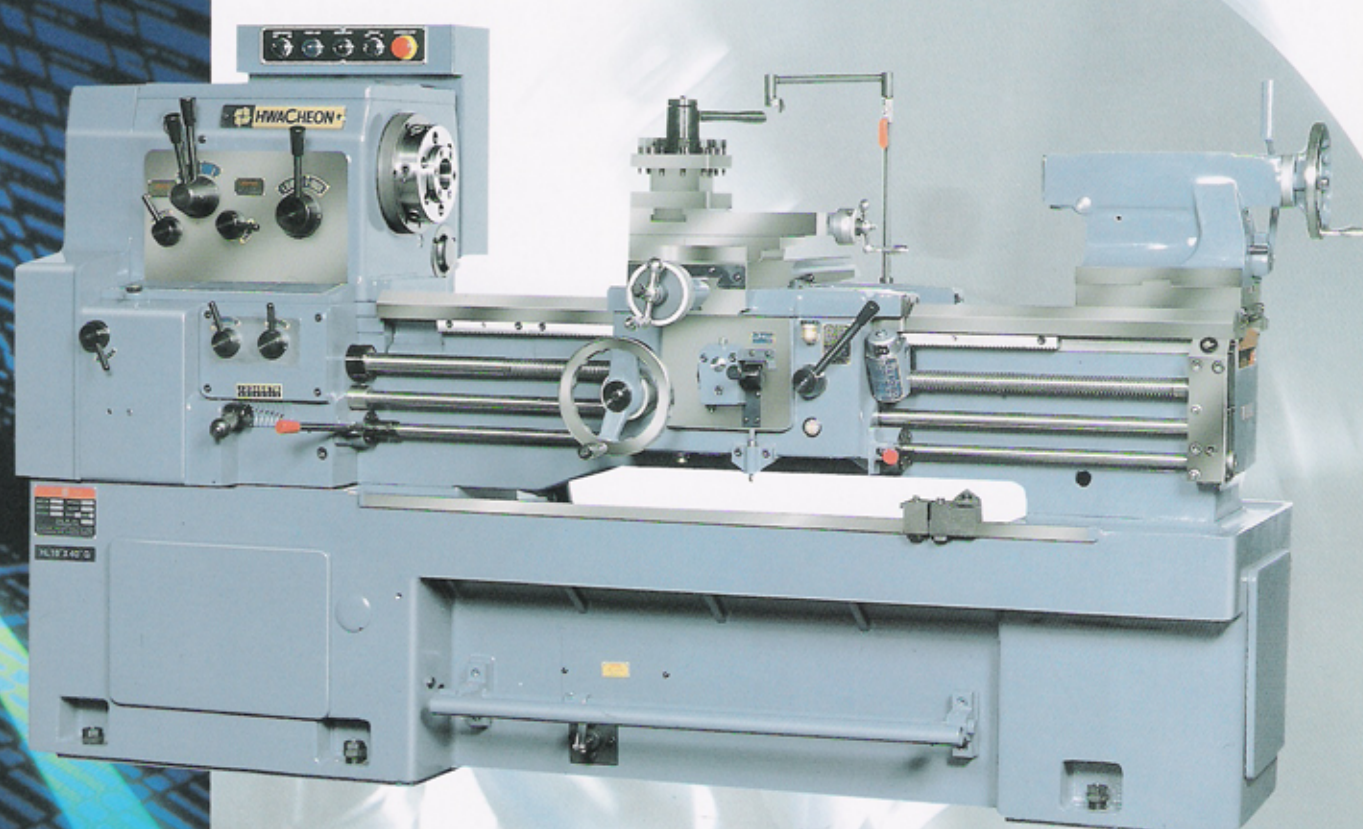


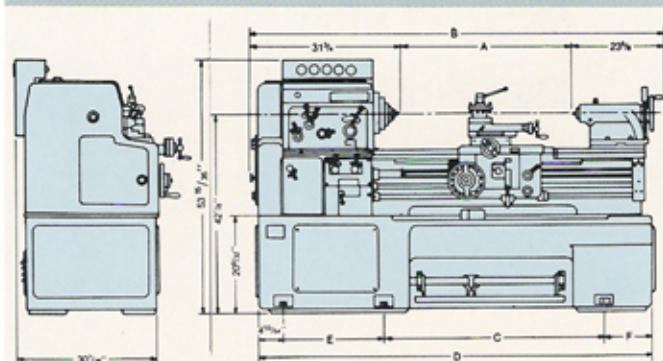
High Speed Precision Engine Lathe

HL-460 18"

HWACHEON LATHE



Dimensions



Standard Equipment

- | | |
|---|---------------------------|
| 1. Coolant Pump | 13. Grease Pump |
| 2. Driving Plate 11 3/4" | 14. Oil Gun |
| 3. Center Sleeve MT #6 | 15. Box Handle 1/2", 5/8" |
| 4. Live Center M.T #4 | 16. Hexagon Handle |
| 5. Dead Center (Cemented Carbide Tip) MT #4 | 17. Spanners |
| 6. Face Plate(Gap Type only) 17 5/8" | 18. Screw Driver |
| 7. Steady Rest 1.5-5" | 19. L-Wrench 3/8" |
| 8. Carriage Micro Stopper | 20. Repairing Paint |
| 9. Thermal Relay(Dual Voltage Region Only) | 21. Testing Chart |
| 10. Change Gear 72T | 22. Instruction Manual |
| 11. Installation Block | 23. Parts List |
| 12. Tool Box | |

Optional Equipment

- | | |
|--|---------------------------|
| 1. CHUCK 14 Inch 4-Jaw Independent Chuck | 3. Rear Tool Post |
| 10 Inch 3-Jaw Scroll Chuck | 4. Taper Attachment |
| 2. Steady Rest(5" ~ 11") | 5. Change Gear(60T, 157T) |

Features

- Number(12 steps) and range of speeds of this lathe is so created that the most suitable cutting speed may be given to any size of workpiece diameter within the possible range of cutting size, namely, within the range of swing over bed.
- The main spindle is supported at three points by precision bearings and its hole is generously sized. Automatic forced lubrication system supplies lubricant to every slidingway and driving mechanism inside the headstock.
- By lubricating device installed inside apron, automatic lubrication is provided between carriage slide ways and bedways
- An adjustable carriage feed stop dog is provided on bed as well as a positive micrometer stop.
- Number of feed changes(40 different kinds)and thread cutting(80-4 T.P.I. 0.25~7mm pitch) are widely selective by lever operations.
- The machine is equipped with an overload safety device for feeding and thread cutting.
- Hydraulic copying attachment, taper-cutting attachment and rear tool post are easily attached by means means of carriage grooves of both sides.
- Cross feed screws are always supply a proper quantity of grease more than one time per a week for maintaining smooth travel under maximum accuracy
- Bed is so designed to prevent torsion, side-wall is double wall and rib type.
- Hardened and ground bedways are made of high tensile cast iron. Produced under the license of U.K Meehanite Know-How.
- Lower portions of bed casting are box shaped and are full length, forming the legs, chip pan and coolant reservoir.
- The hydraulic disk brake provides safe quick braking of the spindle without generation of heat in the headstock.
- Gap bed and Non-Gap bed are available upon request of buyer.

	Swing Over Bed	A	B	C	D	E	F
HL-460	460 (18 3/8")	1000	2406	1300	2190	520	245
		40"	94 3/4"	51 3/16"	86 1/4"	20 1/2"	9 5/9"
		1500	2906	1520	2690	755	290
		59"	114 3/8"	59 27/32"	105 29/32"	29 3/4"	11 13/32"

Specifications

• Unit : inch (mm)

MODEL		40"(1,000)	59"(1,500)
Swing	Swing over bed	18 3/25 (460)	
	Swing over bed from face plate	19 1/4 (490)	
Distance	Up to 7" in short taper nose	11 1/50 (280)	
	6" in cam lock nose	26 7/8 (680)	
Spindle	Swing over cross slide	42 1/8 (1070)	
	Swing over gap	9 1/20 (230)	
Feeds	Distance from floor to center	40"(1000)	
	Distance from bed to center	59"(1500)	
Threads	Distance between centers	ASA A1-6 or D1-6	
	Spindle nose	23/64 (52)	
Tool slide	Spindle bore	M.T.No.6	
	Taper of spindle bore	M.T.No.4	
Tail stock	Taper of center	12	
	Number of spindle speeds	32, 62, 82, 112, 160, 200, 285, 395, 510, 710, 1010, 1800	
Bed	Range of spindle speeds(R.P.M.)	40Kinds	
	No. of feed changes(Long & Cross)	0.0018~0.025"(0.045~0.627)/rev. & 0.0035~0.050"(0.090~1.254)/rev.	
Motor	Range of longitudinal feeds	0.0018~0.025"(0.045~0.627)/rev. & 0.0035~0.050"(0.090~1.254)/rev.	
	Range of cross feeds	1 1/4" dia X Acme thread 4 T.P.I. or 6mm pitch	
Net weight	Lead screw	1 1/2" dia X Acme thread 4 T.P.I. or 6mm pitch	
	Inch threads	80~4 T.P.I.	
Floor Space	Metric threads	0.25~7mm pitch	
	D.P. threads	112~8	
	Module threads	0.5~3.5	
	Cross slide travel	10"(255)	
	Compound rest travel	57/8"(150)	
	Maximum size cutting tool(X × Y)	1" × 1"(25 × 25)	
	Spindle travel	6"(150)	
	Taper of center	M.T.No. 4	
	Width of the bed face	13 3/4 (350)	
	Width of gap(from face plate)	8 1/2 (220) in short taper nose	
	Main spindle motor	7.5HP(5.5kw) 4p or 7.5HP(5.5kw) 4p	
	Coolant pump motor	100w 2p	
		4557lbs(2067kg)	
		2410 × 940mm	
		5776lbs(2620kg)	
		2915 × 940 mm	

貨泉



WHACHEON U.S.A., Inc.

Phone: 800.524.9227 / 562.494.3664 Fax: 562.494.4105

Mail to: P.O. Box 52137, Long Beach, CA 90755

Ship To: 1957 Obispo Ave. Signal Hill, CA 90755