SHERATON

High Speed / Heavy Duty

PRECISION LATHE

CE

High Speed / Heavy Duty

Quality Features Assure Great Value

Each Sheraton lathe is carefully built and integrates many fine features to meet the demand for continued accuracy and minimum trouble through years of heavy duty operation.

Sheraton

- Ruggedly constructed for ultra-high stability.
- High quality cast iron with stress belief without deformation.
- Rigid headstock is excellent for heavy cutting.
- All-gear headstock assures extremely smooth and quiet running.
- Precision spindle creates high machining accuracy.
- Fine craftsmanship with minimum trouble.

PRECISION

Wide range of quality lathes to choose from

Offers the most comprehensive range of high quality lathes, allowing for a flexible choice of machine to suit your specific requirement.

Quality assurance

Quality is the priority at 600 Machine Tools and as such, each machine is rigorously inspected in statical and dynamical performance and dependability, assuring of the highest quality level of products upon delivery. For over years, 600 Machine Tools quality has won customers' full satisfaction and long-term loyalty.

600 Machine Tools

600 Machine Tools

LATHE

HIGH SPEED

Conventional Model (ELM)

Inverter Drive Model (ELV)

1840 / 1860 / 1880

Center Height : 230 mm

Distance Between Centers: 1000 / 1500 / 2000 mm

Spindle Bore	**ELM** (18 Steps)	**ELV** (Inverter Drive)
Ø56 mm (std.)	39~2800 rpm	33~3100 rpm

2140 / 2160 / 2180 / 21120

Center Height : 270 mm

Distance Between Centers: 1000 / 1500 / 2000 / 3000 mm

Spindle Bore	**ELM** (18 Steps)	**ELV** (Inverter Drive)
Ø85 mm (std.)	25~1545 rpm	27~2250 rpm
Ø105 mm (opt.)	23~1293 rpm	20~1500 rpm

2540 / 2560 / 2580 / 25120

Center Height : 315 mm

Distance Between Centers: 1000 / 1500 / 2000 / 3000 mm

Spindle Bore	**ELM** (18 Steps)	**ELV** (Inverter Drive)
Ø85 mm (std.)	25~1545 rpm	27~2250 rpm
Ø105 mm (opt.)	23~1293 rpm	20~1500 rpm
Ø153 mm (opt.)	13~690 rpm	10~800 rpm

Inverter Controlled Lathe for Greater Performance

- 3 range of spindle gear change combined with inverter drive variable speed output.
- Automatic speed change by inverter control.
- Turning process control is more convenient than that of conventional lathe.
- Spindle speed is displayed on the RPM meter.
- Stop braking is controlled by inverter for quick action.
- Constant spindle speed combines with the use of cross-slide lever for feeding, is similar to Constant Surface Speed (C.S.S.) function. This function provides cutting accuracy and speed for side facing on a round plate.
- When performing step turning by using automatic cross feed, the automatic speed change combined with cross feed will increase efficiency greatly.

Conventional Model (ELM)

Inverter Drive Model (ELV)

3060 / 3080 / 30120
30160 / 30200 / 30240

Center Height : 385 mm
Distance Between Centers:
1600 / 2100 / 3100 / 4100 / 5100 / 6100 mm

Spindle Bore	**ELM** (18 Steps)	**ELV** (Inverter Drive)
Ø105 mm (std.)	23~1293 rpm	20~1500 rpm
Ø153 mm (opt.)	13~690 rpm	10~800 rpm

3360 / 3380 / 33120
33160 / 33200 / 33240

Center Height : 420 mm
Distance Between Centers:
1600 / 2100 / 3100 / 4100 / 5100 / 6100 mm

Spindle Bore	**ELM** (18 Steps)	**ELV** (Inverter Drive)
Ø105 mm (std.)	23~1293 rpm	20~1500 rpm
Ø153 mm (opt.)	13~690 rpm	10~800 rpm
Ø230 mm (opt.)	5~440 rpm	6~450 rpm
Ø255 mm (opt.)		

LARGE SWING HEAVY DUTY

Conventional Model (ELM)

Inverter Drive Model (ELV)

4260 / 4280 / 42120 / 42160 / 42200 / 42240 / 42280

Center Height: 565 mm

5060 / 5080 / 50120 / 50160 / 50200 / 50240 / 50280

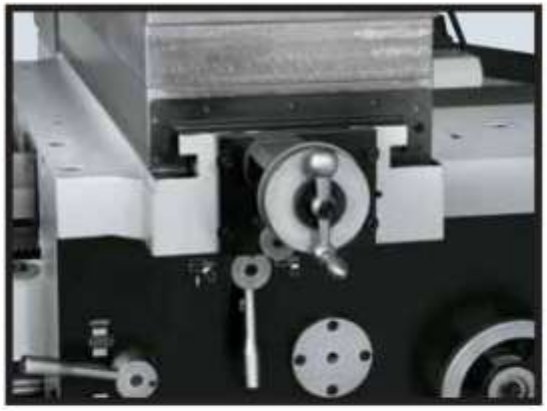
Center Height: 665 mm

6060 / 6080 / 60120 / 60160 / 60200 / 60240 / 60280

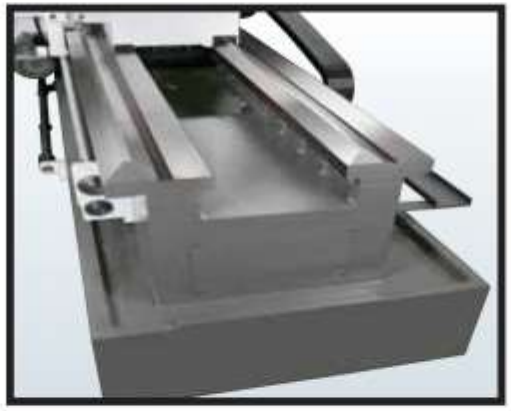
Center Height: 780 mm

Distance Between Centers: 1700 / 2200 / 3200 / 4200 / 5200 / 6200 / 7200 mm

Spindle Bore	**ELM** (18 Steps)	**ELV** (Inverter Drive)
Ø153 mm (std.)	5~615 rpm	7~710 rpm
Ø230 mm (opt.)	4~430 rpm	6~500 rpm
Ø255 mm (opt.)		



Strong box-way design between cross-slide and saddle, which creates border contact surface to offer heavier cutting capacity (good for larger pitch threading) and durable servicing life also holding machine accuracy for much longer time.



Heavily ribbed sturdy machine structure with extra wide bedways and rigid machine base, which offers fundamental strength and stability for larger swing lathe machine.

ULTIMATE STRUCTURE ASSURES

THE HIGHEST STABILITY

MASSIVE BED

- The box type bed is heavily constructed in combination with extra wide bed ways, resulting in increased structural rigidity and machining stability.
- Bed ways are hardened and precisely-ground for high wear-resistance.

SUPERBLY DESIGNED STRUCTURE

- The bed and machine base are manufactured from high quality cast iron, tempered to relieve stress without deformation year after year.
- The bed interior is scientifically rib-reinforced to dampen vibration and reduce deformation.

OVERSIZED BED

- The extra wide bed is a box type construction combined with large span between slide ways for increased rigidity while minimizing vibration and tool chattering when performing heavy cutting.
- Bed slideways are hardened and precisely-ground for smooth movement of the carriage.

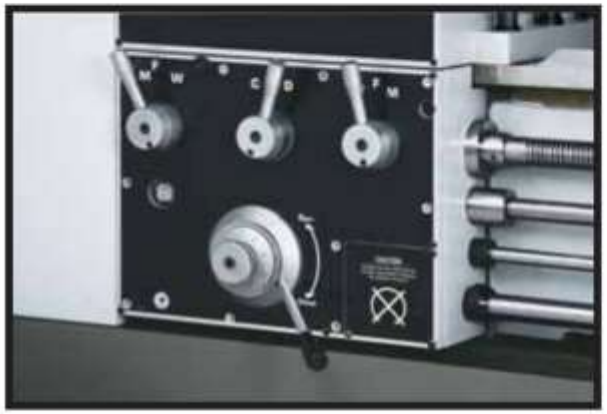
Precisely engineered spindles are manufactured in many sizes to suit different machining applications, extra large spindle up to Ø355mm bore is optionally available on certain model (S).

RIGID HEADSTOCK

- The headstock is ruggedly constructed for ultra-high stability when performing heavy cutting.
- The all-gear headstock provides a wide range of spindle speeds to suit various cutting requirements.
- All gears in the headstock quality are manufactured from high quality alloy steel (SCM-21), carburized and precisely-ground to assure maximum smoothness and quietness during running.

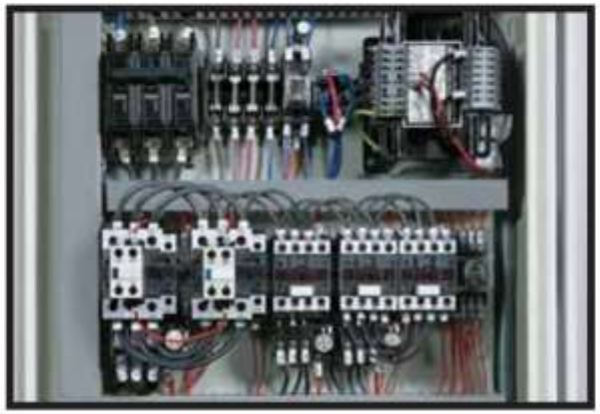
OIL-BATH DEVICE IN HEADSTOCK

- The headstock employs a combination of forced lubrication and oil-bath device to achieve better lubrication effect.



CONVENIENTLY OPERATED GEAR BOX

- Operations such as speed change, feed rate selection and inch/metric threading can be performed conveniently without need to change gear.
- Feed rate selection and threading are easily accomplished by simply shifting three levers and one rotary dial.
- The gear box is oil-bath lubricated to ensure smooth running at all times.

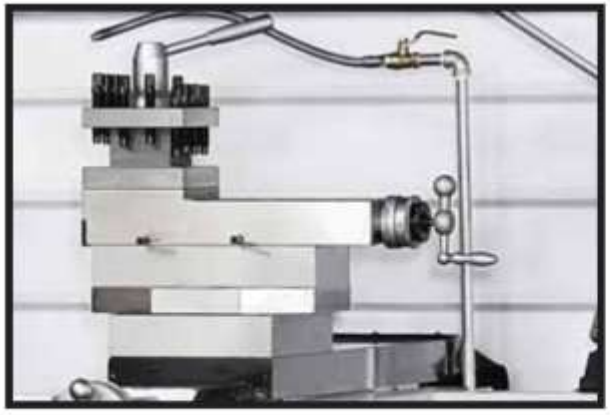


WELL ENGINEERED ELECTRICAL CABINET

- The electrical cabinet is attentively designed and deployed, allowing for easy access for trouble shooting and maintenance of electrical / electronic components.
- All electrical / electronic components are tested for dependable control performance.
- Low voltage control system avoids danger to the operator in case of electric shock.

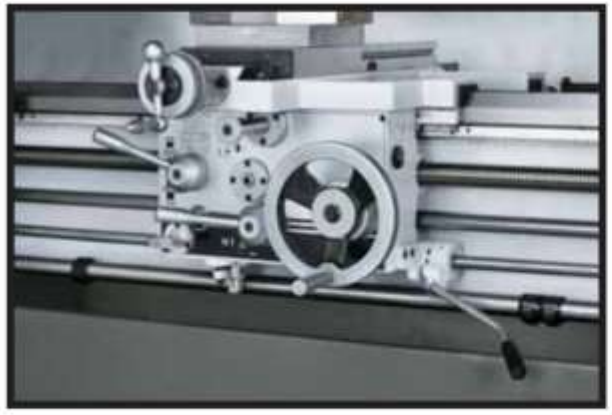
RUGGEDLY CONSTRUCTED TAILSTOCK

- The rugged and compact tailstock is easy to move along the bed ways and clamped in position.
- The tailstock quill is hardened, precisely-ground and graduated in inch and metric scales.
- Accurate tailstock contribute to precision turning and drilling.



COMPOUND TOOL POST

- The compound tool post is mounted on top of the cross slide.
- The slideways of carriage and saddle are hardened and precisely-ground for outstanding wear resistance.
- A hand lubricator is equipped for lubricating longitudinal and cross slideways.



APRON

- The apron has an interlock device to eliminate the problem of simultaneous power feeding and thread cutting.
- The apron forms an oil reservoir for oil-bath lubrication for all gears in the apron.

OPTIONAL EQUIPMENTS

3-JAW SCROLL CHUCK

- The 3 jaws move in and out simultaneously for quickly clamping a workpiece.
- Choice of various diameter of chucks depending on lathe model.

4-JAW INDEPENDENT CHUCK

4-jaw independent chuck is used for clamping workpieces with irregular shapes, reversible for gripping the inside or outside of a workpiece.

FACE PLATE

- In case an irregularly shaped workpiece can not be clamped by a chuck, then the face plate should be applied for holding such workpiece.

CHUCK GUARD

- The chuck guard is mounted over the chuck, providing safety protection for the operator during cutting.
- In the case that chuck guard is opened, machine power shuts off autamatically.

DUAL CHUCK SYSTEM

Upon customer's request, an additional chuck can be mounted at the rear end of the spindle, available only for spindle bore larger than 105 mm, a long workpiece can be clamped at two positions for increasing the stability of the work piece.

STEADY REST

- The steady rest is used for supporting a workpiece, that effectively prevents the workpiece from springing or bending.
- The jaws can be adjusted, allowing the workpiece to be supported at a correct position.

FOLLOW REST

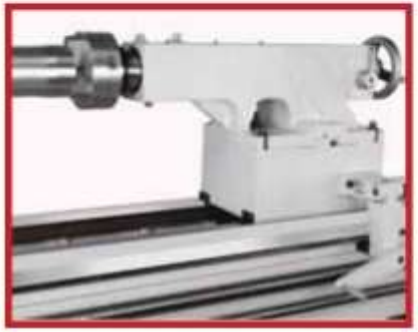
- The follow rest is mounted to the saddle, and moves together with the saddle for holding the workpiece.
- To prevent a workpiece from springing away from the point of the cutting tool.

MICROMETER BED STOPPER

- The micrometer bed stopper is mounted on the bed ways.
- This stopper provides increased convenience in case workpiece machining requires correct shoulder length.

TURRET TYPE 5-POSITION BED STOPPER

- The turret type 5-position bed stopper is mounted on the bed ways.
- Equipped with 5 adjustable reference-screws for conveniently setting stop position.



ROTATING QUILL OF TAILSTOCK

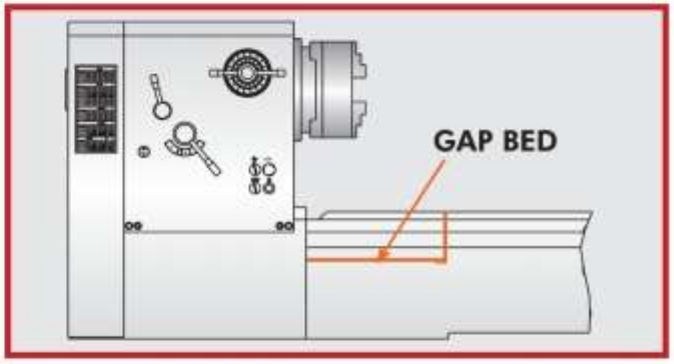
- The rotating quill provides an increase in loading capacity.
- Especially ideal for holding long workpiece.

CHIP AND COOLANT SHIELD

- The see-through chips and coolant shield is mounted at the front of the saddle. It is used to prevent chips and coolant from damage to the operator.

QUICK CHANGE TOOL POST

- The quick change tool post is equipped with a clamping lever for fixing cutting-tool easily and faster.
- It holds only one cutting tool.
- The tool post and cutting tool can be changed simultaneously for saving time in tool setting.



GAP BED

- The gap bed is a segment of bed, which can be removed for increasing swing capacity.

TAPER ATTACHMENT

- The taper attachment is mounted at the back side of the bed, and can be adjusted along the bed to meet machining requirement.
- It is suitable for taper-cutting.

SPECIFICATIONS

ITEM/MODEL		ELM-1840 / ELV-1840	ELM-1860 / ELV-1860	ELM-1880 / ELV-1880	ELM-2140 / ELV-2140	ELM-2160 / ELV-2160	ELM-2180 / ELV-2180	ELM-21120 / ELV-21120
CAPACITY								
Center height		230 mm			270 mm			
Max. swing over bed		460 mm			540 mm			
Max. swing over gap		640 mm (opt.)			720 mm (opt.)			
Max. swing over cross-slide		290 mm			360 mm			
Distance between centers		1000 mm	1500 mm	2000 mm	1000 mm	1500 mm	2000 mm	3000 mm
MAIN SPINLDE								
Spindle bore		Ø56 mm			Ø85 mm (std.)		Ø105 mm (opt.)	
Spindle nose		D 1-6			D 1-8		A 1-11	
Conventional type spindle speeds (18 steps)		39 - 2800 rpm			25 - 1545 rpm		23 - 1293 rpm	
Inverter type variable speeds	H	3100 - 681 rpm			2250 - 491 rpm		1500 - 331 rpm	
	M	680 - 153 rpm			490 - 126 rpm		330 - 93 rpm	
	L	152 - 33 rpm			125 - 27 rpm		92 - 20 rpm	
CARRIAGE								
Cross-slide travel		280 mm			330 mm			
Compound rest travel		120 mm			150 mm			
TAILSTOCK								
Tailstock spindle dia.		75 mm			75 mm			
Tailstock spindle travel		170 mm			170 mm			
Tailstock spindle taper		MT#5			MT#5			
BED								
Bed width		350 mm			350 mm			
THREADING								
Lead screw		4TPI or 6 mm / pitch			4TPI or 6 mm / pitch			
Metric pitch threads		0.5-7 mm / pitch (24 kinds)			0.5-7 mm / pitch (24 kinds)			
Inch pitch threads		4-56 TPI (36 kinds)			4-56 TPI (36 kinds)			
Module pitch threads		0.25-3.5 M (15 kinds)			0.25-3.5 M (15 kinds)			
DP threads		8-112 P (36 kinds)			8-112 P (36 kinds)			
FEEDING RANGE								
Range of longitudinal feeds		0.06-0.88 mm / rev.			0.06-0.88 mm / rev.			
Range of cross feeds		0.03-0.44 mm / rev.			0.03-0.44 mm / rev.			
MOTOR								
Main spindle motor		7-1/2 HP / 10 HP (opt.)			10 HP / 15 HP (opt.)			
Rapid feed motor		90 W (opt.)			90 W (opt.)			
Coolant pump motor		1/8 HP			1/8 HP			
MACHINE PACKING								
Net weight approx.		2000 kgs	2250 kgs	2500 kgs	2200 kgs	2350 kgs	2600 kgs	2600 kgs
Packing size (mm)		2290x1200x1700	2790x1200x1700	3290x1200x1700	2290x1200x1700	2790x1200x1700	3290x1200x1700	4290x1200x1700

ELM-2540 / ELV-2540	ELM-2560 / ELV-2560	ELM-2580 / ELV-2580	ELM-25120 / ELV-25120
315 mm			
630 mm			
810 mm (opt.)			
450 mm			
1000 mm	1500 mm	2000 mm	3000 mm
Ø85 mm (std.)	Ø105 mm (opt.)	Ø153 mm (opt.)	
D 1-8	A 1-11	A 2-11	
25 - 1545 rpm	23 - 1293 rpm	13 - 690 rpm	
2250 - 491 rpm	1500 - 331 rpm	800 - 176 rpm	
490 - 126 rpm	330 - 93 rpm	175 - 53 rpm	
125 - 27 rpm	92 - 20 rpm	52 - 10 rpm	
330 mm			
150 mm			
75 mm			
170 mm			
MT#5			
350 mm			
4TPI or 6 mm / pitch			
0.5-7 mm / pitch (24 kinds)			
4-56 TPI (36 kinds)			
0.25-3.5 M (15 kinds)			
8-112 P (36 kinds)			
0.06-0.88 mm / rev.			
0.03-0.44 mm / rev.			
10 HP / 15 HP (opt.)			
90 W (opt.)			
1/8 HP			
2250 kgs	2400 kgs	2650 kgs	2650 kgs
2290x1200x1700	2790x1200x1700	3290x1200x1700	4290x1200x1700

• Above specifications are subject to change without prior notice.

STANDARD ACCESSORIES:

- Center sleeve 1 PC
- Dead centers 2 PCS
- Main drive motor 1 SET
- Coolant equipment 1 SET
- Tool box & tools 1 SET

OPTIONAL ACCESSORIES:

- CE conformity
- Magnetic brake for spindle motor
- Steady rest
- Follow rest
- 3-jaws scroll chuck
- 4-jaws independent chuck
- Face plate
- Dual chuck system (for bigger than 105mm spindle bore)
- Rear chuck adaptor (for bigger than 105mm spindle bore)
- Micrometer bed stopper
- Turret type 5 position bed stopper
- Quick change toolpost
- Gap bed
- Taper attachment
- Rotating center
- Chuck guard
- Chip and coolant shield
- Lead screw guard
- Full length splash guard
- Z-axis rapid travel
- Digital readout system
- Work light

SPECIFICATIONS

ITEM/MODEL		ELM-3060 ELV-3060	ELM-3080 ELV-3080	ELM-30120 ELV-30120	ELM-30160 ELV-30160	ELM-30200 ELV-30200	ELM-30240 ELV-30240	ELM-3360 ELV-3360
CAPACITY								
Center height		385 mm						
Max. swing over bed		770 mm						
Max. swing over gap		980 mm (opt.)						
Max. swing over cross-slide		500 mm						
Distance between centers		1600 mm	2100 mm	3100 mm	4100 mm	5100 mm	6100 mm	1600 mm
MAIN SPINLDE								
Spindle bore		Ø105 mm (std.)			Ø153 mm (opt.)			
Spindle nose		A 1-11			A 2-11			
Conventional type spindle speeds (18 steps)		23 - 1293 rpm			13 - 690 rpm			
Inverter type variable speeds	H	1500 - 331 rpm			800 - 176 rpm			
	M	330 - 93 rpm			175 - 53 rpm			
	L	92 - 20 rpm			52 - 10 rpm			
CARRIAGE								
Cross-slide travel		450 mm						
Compound rest travel		250 mm						
TAILSTOCK								
Tailstock spindle dia.		105 mm						
Tailstock spindle travel		220 mm						
Tailstock spindle taper		MT#5						
BED								
Bed width		450 mm						
THREADING								
Lead screw		2TPI or 12 mm / pitch						
Metric pitch threads		0.8-14 mm / pitch (65 kinds)						
Inch pitch threads		2-28 TPI (36 kinds)						
Module pitch threads		0.5-7 M (22 kinds)						
DP threads		4-56 TPI (36 kinds)						
FEEDING RANGE								
Range of longitudinal feeds		0.05-0.70 mm / rev.						
Range of cross feeds		0.025-0.35 mm / rev.						
MOTOR								
Main spindle motor		15 HP / 20 HP (opt.)						
Rapid feed motor		1/4 HP						
Coolant pump motor		1/8 HP						
MACHINE PACKING								
Net weight approx.		3350 kgs	3600 kgs	4100 kgs	4600 kgs	5100 kgs	5700 kgs	3450 kgs
Packing size (mm)		3650x1700x1800	4150x1700x1800	5150x1700x1800	6150x1700x1800	7150x1700x1800	8150x1700x1800	3650x1700x1800

ELM-3380 ELV-3380	ELM-33120 ELV-33120	ELM-33160 ELV-33160	ELM-33200 ELV-33200	ELM-33240 ELV-33240
420 mm				
840 mm				
1020 mm (opt.)				
570 mm				
2100 mm	3100 mm	4100 mm	5100 mm	6100 mm
Ø105 mm (std.)	Ø153 mm (opt.)	Ø230 mm (opt.)	Ø255 mm (opt.)	
A 1-11	A 2-11	A 2-15	A 2-15	
23 - 1293 rpm	13 - 690 rpm	5 - 440 rpm	5 - 440 rpm	
1500 - 331 rpm	800 - 176 rpm	450 - 108 rpm	450 - 108 rpm	
330 - 93 rpm	175 - 53 rpm	107 - 31 rpm	107 - 31 rpm	
92 - 20 rpm	52 - 10 rpm	30 - 6 rpm	30 - 6 rpm	
450 mm				
250 mm				
105 mm				
220 mm				
MT#5				
450 mm				
2TPI or 12 mm / pitch				
0.8-14 mm / pitch (65 kinds)				
2-28 TPI (36 kinds)				
0.5-7 M (22 kinds)				
4-56 TPI (36 kinds)				
0.05-0.70 mm / rev.				
0.025-0.35 mm / rev.				
15 HP / 20 HP (opt.)				
1/4 HP				
1/8 HP				
3700 kgs	4200 kgs	4700 kgs	5200 kgs	5800 kgs
4150x1700x1800	5150x1700x1800	6150x1700x1800	7150x1700x1800	8150x1700x1800

• Above specifications are subject to change without prior notice.

STANDARD ACCESSORIES:

• Center sleeve	1 PC
• Dead centers	2 PCS
• Main drive motor	1 SET
• Coolant equipment	1 SET
• Tool box & tools	1 SET
• X-axis / Z-axis rapid travel	1 SET
• Magnetic brake for spindle motor	1 SET

OPTIONAL ACCESSORIES:

- CE conformity
- Steady rest
- Follow rest
- 3-jaws scroll chuck
- 4-jaws independent chuck
- Face plate
- Dual chuck system (for bigger than 105mm spindle bore)
- Rear chuck adaptor (for bigger than 105mm spindle bore)
- Micrometer bed stopper
- Turret type 5 position bed stopper
- Quick change toolpost
- Gap bed
- Taper attachment
- Rotating center
- Chuck guard
- Chip and coolant shield
- Lead screw guard
- Full length splash guard (for less than 3100mm length lathe)
- Moving rear splash guard
- Digital readout system
- Work light

SPECIFICATIONS

ITEM/MODEL		ELM-4260 ELV-4260	ELM-4280 ELV-4280	ELM-42120 ELV-42120	ELM-42160 ELV-42160	ELM-42200 ELV-42200	ELM-42240 ELV-42240	ELM-42280 ELV-42280
CAPACITY								
Center height		565 mm						
Max. swing over bed		1070 mm						
Max. swing over gap		1520 mm						
Max. swing over cross-slide		750 mm						
Distance between centers		1700 mm	2200 mm	3200 mm	4200 mm	5200 mm	6200 mm	7200 mm
Length of gap		570 mm						
MAIN SPINLDE								
Spindle bore			Ø153 mm (std.)		Ø230 mm (opt.)		Ø255 mm (opt.)	
Spindle nose			A 2-11		A 2-15		A 2-15	
Conventional type spindle speeds (18 steps)			5 - 615 rpm		4 - 430 rpm		4 - 430 rpm	
Inverter type variable speeds	H		710 - 188 rpm		500 - 116 rpm		500 - 116 rpm	
	M		187 - 40 rpm		115 - 31 rpm		115 - 31 rpm	
	L		39 - 7 rpm		30 - 6 rpm		30 - 6 rpm	
CARRIAGE								
Cross-slide travel		700 mm						
Compound rest travel		380 mm						
TAILSTOCK								
Tailstock spindle dia.		165 mm						
Tailstock spindle travel		300 mm						
Tailstock spindle taper		MT#6						
BED								
Bed width		610 mm						
THREADING								
Lead screw		2TPI or 12 mm / pitch						
Metric pitch threads		1-30 mm						
Inch pitch threads		30-1 TPI						
Module pitch threads		0.5-15 M						
DP threads		60-2 TPI						
FEEDING RANGE								
Range of longitudinal feeds		0.05-1.52 mm / rev.						
Range of cross feeds		0.025-0.76 mm / rev.						
MOTOR								
Main spindle motor		ELM: 20 HP / 25/30 HP (opt.) ELV: 25HP / 30HP (opt.)						
Rapid feed motor		3/4 HP						
Coolant pump motor		1/4 HP						
MACHINE PACKING								
Net weight approx.		6600 kgs	7000 kgs	7800 kgs	8600 kgs	9200 kgs	10000 kgs	10800 kgs
Packing size (mm)		4240x1840x1760	4740x1840x1760	5740x1840x1760	6740x1840x1760	7740x1840x1760	8740x1840x1760	9740x1840x1760

ELM-5060 / ELV-5060	ELM-5080 / ELV-5080	ELM-50120 / ELV-50120	ELM-50160 / ELV-50160	ELM-50200 / ELV-50200	ELM-50240 / ELV-50240	ELM-50280 / ELV-50280
			665 mm			
			1270 mm			
			1720 mm			
			950 mm			
1700 mm	2200 mm	3200 mm	4200 mm	5200 mm	6200 mm	7200 mm
			570 mm			
	Ø153 mm (std.)		Ø230 mm (opt.)	Ø255 mm (opt.)		
	A 2-11		A 2-15	A 2-15		
	5 - 615 rpm		4 - 430 rpm	4 - 430 rpm	large spindle bores are available on request	
	710 - 188 rpm		500 - 116 rpm	500 - 116 rpm		
	187 - 40 rpm		115 - 31 rpm	115 - 31 rpm		
	39 - 7 rpm		30 - 6 rpm	30 - 6 rpm		
			700 mm			
			380 mm			
			165 mm			
			300 mm			
			MT#6			
			610 mm			
			2TPI or 12 mm / pitch			
			1-30 mm			
			30-1 TPI			
			0.5-15 M			
			60-2 TPI			
			0.05-1.52 mm / rev.			
			0.025-0.76 mm / rev.			
			ELM: 20 HP / 25/30 HP (opt.) ELV: 25HP / 30HP (opt.)			
			3/4 HP			
			1/4 HP			
6900 kgs	7300 kgs	8100 kgs	8900 kgs	9700 kgs	10500 kgs	11300 kgs
4240x1840x1860	4740x1840x1860	5740x1840x1860	6740x1840x1860	7740x1840x1860	8740x1840x1860	9740x1840x1860

• Above specifications are subject to change without prior notice.

SPECIFICATIONS

ITEM/MODEL		ELM-6060 ELV-6060	ELM-6080 ELV-6080	ELM-60120 ELV-60120	ELM-60160 ELV-60160	ELM-60200 ELV-60200	ELM-60240 ELV-60240	ELM-60280 ELV-60280
CAPACITY								
Center height		780 mm						
Max. swing over bed		1500 mm						
Max. swing over gap		1950 mm						
Max. swing over cross-slide		1180 mm						
Distance between centers		1700 mm	2200 mm	3200 mm	4200 mm	5200 mm	6200 mm	7200 mm
Length of gap		570 mm						
MAIN SPINLDE								
Spindle bore		Ø153 mm (std.)		Ø230 mm (opt.)		Ø255 mm (opt.)		
Spindle nose		A 2-11		A 2-15		A 2-15		
Conventional type spindle speeds (18 steps)		5 - 615 rpm		4 - 430 rpm		4 - 430 rpm	large spindle bores are available on request	
Inverter type variable speeds	H	710 - 188 rpm		500 - 116 rpm		500 - 116 rpm		
	M	187 - 40 rpm		115 - 31 rpm		115 - 31 rpm		
	L	39 - 7 rpm		30 - 6 rpm		30 - 6 rpm		
CARRIAGE								
Cross-slide travel		700 mm						
Compound rest travel		380 mm						
TAILSTOCK								
Tailstock spindle dia.		165 mm						
Tailstock spindle travel		300 mm						
Tailstock spindle taper		MT#6						
BED								
Bed width		610 mm						
THREADING								
Lead screw		2TPI or 12 mm / pitch						
Metric pitch threads		1-30 mm						
Inch pitch threads		30-1 TPI						
Module pitch threads		0.5-15 M						
DP threads		60-2 TPI						
FEEDING RANGE								
Range of longitudinal feeds		0.05-1.52 mm / rev.						
Range of cross feeds		0.025-0.76 mm / rev.						
MOTOR								
Main spindle motor		ELM: 20 HP / 25/30 HP (opt.) ELV: 25HP / 30HP (opt.)						
Rapid feed motor		1 HP						
Coolant pump motor		1/4 HP						
MACHINE PACKING								
Net weight approx.		7400 kgs	7800 kgs	8600 kgs	9400 kgs	10200 kgs	11000 kgs	11800 kgs
Packing size (mm)		4240x2090x2010	4740x2090x2010	5740x2090x2010	6740x2090x2010	7740x2090x2010	8740x2090x2010	9740x2090x2010

• Above specifications are subject to change without prior notice.

STANDARD ACCESSORIES:

• Main drive motor	1 SET
• Coolant equipment	1 SET
• Magnetic brake for spindle motor	1 SET
• Six way rapid travel (including compound tool post)	1 SET
• Center sleeve	1 PC
• Dead centers	2 PCS
• Tool box & tools	1 SET

OPTIONAL ACCESSORIES:

- CE conformity
- Gap bed
- 3-jaws scroll chuck
- 4-jaws independent chuck
- Face plate type 4-jaw chuck
- Dual chuck system
- Rear chuck adaptor
- Steady rest
- Follow rest
- Work light
- Taper attachment
- Full length splash guard (for less than 3100mm length lathe)
- Moving rear splash guard
- Chip and coolant shield
- Chuck guard
- Leadscrew guard
- Rotating center
- Digital readout system