



PRODUCT CATALOGUE

HEAVY-DUTY PRECISION MACHINE TOOLS



"Built for Strength. Engineered for Precision. Designed for Performance."



COMPANY PROFILE

ESSKAY Engineering Corporation is a trusted Indian manufacturer of industrial machine tools, delivering reliable and heavy-duty machinery to engineering workshops, fabrication industries, educational institutions, maintenance departments, and manufacturing plants like Cement Plants, Steel Plants, Power Plants, and other heavy industries like Hydro Power plants, etc. Established in 1981, the company has built its reputation on quality workmanship, robust machine construction, and customer-focused engineering solutions. For over four decades, ESSKAY has been committed to manufacturing machines that combine strength, precision, durability, and performance, helping customers achieve higher productivity and consistent machining accuracy.

OUR TECHNICAL STRENGTHS

- **Since 1981:** More than 40 years of manufacturing and engineering excellence.
- **Heavy-Duty Construction:** Machines built with extra-rigid structures for vibration-free performance under extreme workloads.
- **Precision Engineering:** Crafted for tight machining tolerances and an extended operational life.
- **Premium Components:** Absolute configuration of verified industrial bearings, gears, and premium electrical layout groups.
- **Flame Hardened Beds:** Enhanced induction-hardened guideway tracking, maintaining structural accuracy across years of operation.
- **Chrome Finished Components:** Superior floor aesthetics, enhanced corrosion resistance, and prolonged hardware durability.
- **Customer-Centric Approach:** Custom tailored design choices backed by dependable technical after-sales assistance.
- **Made in India:** Proudly manufacturing world-class machine tools for Indian and global heavy industrial sectors.

COMPREHENSIVE PRODUCT RANGE

ESSKAY manufactures and supplies a versatile matrix of industrial workshop tooling, including:

• Heavy Duty Lathe Machines	• Slotting Machines
• All Geared Lathe Machines	• Universal Milling Machines
• Light Duty & Medium Duty Lathes	• Special Purpose Machines
• Shaping Machines	• Workshop Machinery & Toolroom Hardware

QUALITY COMMITMENT & CORPORATE VISION

Every single ESSKAY machine is manufactured with strict attention to quality, ensuring high machining accuracy, long operational life, reliable performance under heavy workloads, low maintenance requirements, and maximum productivity for industrial users.

Our Vision: To be a leading manufacturer of heavy-duty machine tools by continuously delivering innovative, reliable, and precision-engineered solutions that empower industries worldwide.



6 FEET BED LENGTH SERIES

Space-efficient toolroom configuration implementing full quick-change lever selections and high-clearance 5" hollow spindle bores.

MODEL CODE	DIM.	CENTER HEIGHT	BED WIDTH	OPERATIONAL SWINGS & CAPACITIES			MOTOR POWER
				OVER BED	CROSS SLIDE	IN GAP	
ESS0612	Inches	10"	12"	20"	12"	28"	2 HP
	mm	254	304.8	508	304.8	711.2	
ESS0614	Inches	12"	14"	24"	16"	32"	2 HP
	mm	304.8	355.6	609.6	406.4	812.8	
ESS0616	Inches	14"	16"	28"	20"	36"	3 HP
	mm	355.6	406.4	711.2	508.0	914.4	



Figure 1: ESSKAY 6 Feet Heavy Duty Precision Lathe Machine (ESS0614)



8 FEET BED LENGTH SERIES

Bridges flexible toolroom assignments seamlessly with structural parameter steps at the heavy 18" Center Height marker.

MODEL CODE	DIM.	CENTER HEIGHT	BED WIDTH	OPERATIONAL SWINGS			GEARBOX & BED DESIGN	SPINDLE BORE	MOTOR POWER
				OVER BED	CROSS SL.	IN GAP			
ESS0814	Inches	12"	14"	24"	16"	32"	Full Norton Semi-Planer	5" (127 mm)	3 HP
	mm	304.8	355.6	609.6	406.4	812.8			
ESS0816	Inches	14"	16"	28"	20"	36"	Full Norton Semi-Planer	5" (127 mm)	3 HP
	mm	355.6	406.4	711.2	508.0	914.4			
ESS0818	Inches	16"	18"	32"	24"	40"	Full Norton Semi-Planer	5" (127 mm)	3 HP
	mm	406.4	457.2	812.8	609.6	1016.0			
ESS0820	Inches	18"	20"	36"	28"	44"	Semi-Norton Fully Planer	105 mm (4.13")	5 HP
	mm	457.2	508.0	914.4	711.2	1117.6			



 **HEAVY DUTY CONSTRUCTION**
Built for strength and durability

 **HIGH PRECISION PERFORMANCE**
Designed for accurate and consistent results

 **BUILT FOR LONG LIFE**
Robust structure for continuous operation

 **RELIABLE & EFFICIENT**
Smooth operation with minimal maintenance

Figure 2: ESSKAY 8 Feet Heavy Duty Precision Lathe Machine (ESS0818)



10 FEET BED LENGTH SERIES

Extended structural envelope designed specifically to process long production shaft tracking and heavy fabrication loads.

MODEL CODE	DIM.	CENTER HEIGHT	BED WIDTH	OPERATIONAL SWINGS			GEARBOX & BED DESIGN	SPINDLE BORE	MOTOR POWER
				OVER BED	CROSS SL.	IN GAP			
ESS1016	Inches	14"	16"	28"	20"	36"	Full Norton Semi-Planer	5" (127 mm)	3 HP
	mm	355.6	406.4	711.2	508.0	914.4			
ESS1018	Inches	16"	18"	32"	24"	40"	Full Norton Semi-Planer	5" (127 mm)	5 HP
	mm	406.4	457.2	812.8	609.6	1016.0			
ESS1020	Inches	18"	20"	36"	28"	44"	Semi-Norton Fully Planer	105 mm (4.13")	5 HP
	mm	457.2	508.0	914.4	711.2	1117.6			



Figure 3: ESSKAY 10 Feet Heavy Duty Precision Lathe Machine (ESS1018)



12 FEET BED LENGTH SERIES

High-capacity industrial lineup featuring precision tailstock gearboxes and automated tracking assemblies.

MODEL CODE	DIM.	CENTER HEIGHT	BED WIDTH	OPERATIONAL SWINGS			GEARBOX & BED DESIGN	SPINDLE BORE	MOTOR POWER
				OVER BED	CROSS SL.	IN GAP			
ESS1218	Inches	16"	18"	32"	24"	40"	Full Norton Semi-Planer	5" (127 mm)	3 HP
	mm	406.4	457.2	812.8	609.6	1016.0			
ESS1220	Inches	18"	20"	36"	28"	44"	Semi-Norton Fully Planer	105 mm (4.13")	5 HP
	mm	457.2	508.0	914.4	711.2	1117.6			
ESS1222	Inches	20"	22"	40"	32"	48"	Semi-Norton Fully Planer	105 mm (4.13")	5 HP
	mm	508.0	558.8	1016.0	812.8	1219.2			
ESS1224	Inches	22"	24"	44"	36"	56"	Semi-Norton Fully Planer	105 mm (4.13")	5 HP
	mm	558.8	609.6	1117.6	914.4	1422.4			
ESS1226	Inches	24"	26"	48"	40"	60"	Semi-Norton Fully Planer	105 mm (4.13")	7.5 HP
	mm	609.6	660.4	1219.2	1016.0	1524.0			

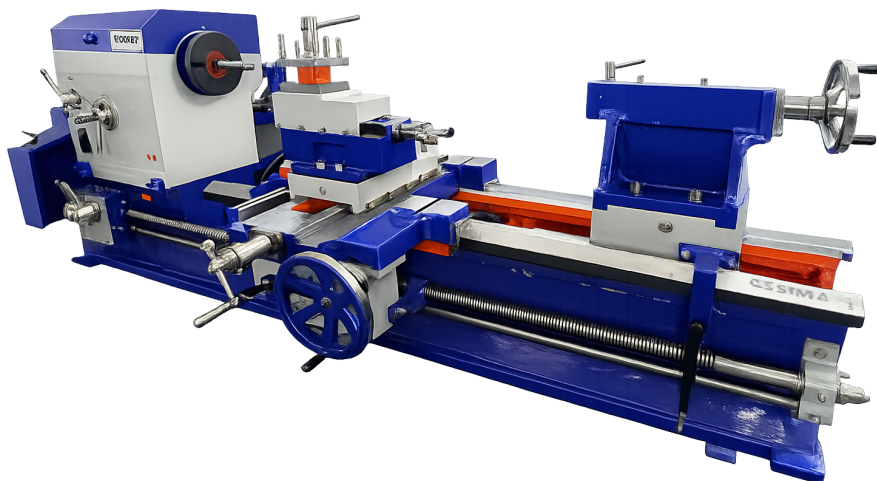


Figure 4: ESSKAY 12 Feet Heavy Duty Precision Lathe Machine (ESS1224)



16 FEET BED LENGTH SERIES

Premium induction-treated Flame Hardened Bed series engineered to withstand continuous heavy mechanical loads up to 28" Center Heights.

MODEL CODE	DIM.	CENTER HEIGHT	BED WIDTH	OPERATIONAL SWINGS			GEARBOX & BED DESIGN	SPINDLE BORE	MOTOR POWER
				OVER BED	CROSS SL.	IN GAP			
ESS1618	Inches	16"	18"	32"	24"	40"	Full Norton Semi-Planer	5" (127 mm)	3 HP
	mm	406.4	457.2	812.8	609.6	1016.0			
ESS1620	Inches	18"	20"	36"	28"	44"	Semi-Norton Fully Planer	105 mm (4.13")	5 HP
	mm	457.2	508.0	914.4	711.2	1117.6			
ESS1622	Inches	20"	22"	40"	32"	48"	Semi-Norton Fully Planer	105 mm (4.13")	5 HP
	mm	508.0	558.8	1016.0	812.8	1219.2			
ESS1624	Inches	22"	24"	44"	36"	56"	Semi-Norton Fully Planer	105 mm (4.13")	5 HP
	mm	558.8	609.6	1117.6	914.4	1422.4			
ESS1626	Inches	24"	26"	48"	40"	60"	Semi-Norton Fully Planer	105 mm (4.13")	7.5 HP
	mm	609.6	660.4	1219.2	1016.0	1524.0			
ESS1628	Inches	26"	28"	52"	44"	64"	Semi-Norton Fully Planer	105 mm (4.13")	7.5 HP
	mm	660.4	711.2	1320.8	1117.6	1625.6			
ESS1630	Inches	28"	30"	56"	48"	68"	Semi-Norton Fully Planer	105 mm (4.13")	10 HP
	mm	711.2	762.0	1422.4	1219.2	1727.2			



Figure 5: ESSKAY 16 Feet Heavy Duty Precision Lathe Machine (ESS1624)



20 FEET FLAGSHIP BED LENGTH SERIES

Our premium heavy-duty industrial series, constructed on deep-section induction hardened Fully Planer beds standard.

MODEL CODE	DIM.	CENTER HEIGHT	BED WIDTH	OPERATIONAL SWINGS & SWIVELS			MOTOR POWER
				OVER BED	CROSS SLIDE	IN GAP	
ESS2020	Inches	18"	20"	36"	28"	44"	5 HP
	mm	457.2	508.0	914.4	711.2	1117.6	
ESS2022	Inches	20"	22"	40"	32"	48"	5 HP
	mm	508.0	558.8	1016.0	812.8	1219.2	
ESS2024	Inches	22"	24"	44"	36"	56"	5 HP
	mm	558.8	609.6	1117.6	914.4	1422.4	
ESS2026	Inches	24"	26"	48"	40"	60"	7.5 HP
	mm	609.6	660.4	1219.2	1016.0	1524.0	
ESS2028	Inches	26"	28"	52"	44"	64"	7.5 HP
	mm	660.4	711.2	1320.8	1117.6	1625.6	
ESS2030	Inches	28"	30"	56"	48"	68"	10 HP
	mm	711.2	762.0	1422.4	1219.2	1727.2	



Figure 6: ESSKAY 20 Feet Flagship Heavy Duty Precision Lathe Machine (ESS2026)



ACCESSORIES & CONFIGURATION OPTIONS



STANDARD COMPLIMENTARY PACK

Provided standard out-of-the-box with every Lathe Machine:

- **One No. Steady Rest:** Heavy workpiece anti-deflection component.
- **One No. Follow Rest:** Travelling cutter support assembly.
- **One No. Motor Plate (if applicable):** Rigid adjustable motor positioning base plate.
- **One No. Chuck Plate (if applicable):** Machined backplate to mount the Dog Chuck (four-jaw chuck).
- **Chip Tray and Back Covers (if applicable):** Full-length workspace debris collection and shielding.
- **Motor Cover for safety (if applicable):** Protective enclosure layout for operator security.
- **Outer Vee Belts fenner make (if applicable):** Premium performance power transmission lines.
- **Starter (if applicable):** Heavy-duty electrical motor activation control switchboard.
- **Internal wiring (if applicable):** Fully structured power connectivity lines.
- **Set of Gears:** Provided with Gearbox (23 nos for Semi-Norton gearbox and 5 nos for Norton gearbox respectively, whichever is applicable).



OPTIONAL UPGRADE ELEMENTS (EXTRA COST)

Expand specific machining envelopes or compound indexing axes:

- **Industrial Motors Make:** Premium matched continuous-duty power options of either **CG (Crompton Greaves)** or **Siemens make**. Engineered to operate steadily at **1440 RPM on 3-Phase (415V) lines**. Horsepower counts are factory-tailored to suit selected framework series (2 HP to 10 HP).
- **Workholding Chucks:** Precision 3-Jaw Self-Centering Scroll Chuck and Independent 4-Jaw Dog Chuck units.
- **Carriage Profiling Tools:** Taper Turning Attachment (TTA), Carriage Keyway Slotting Attachment, and Quick Change Tool Post (QCTP).
- **Grinding & Cooling Groups:** Motorized external/ internal Tool Post Grinders and integrated automated high-pressure Coolant Pump systems.