

PIONEER™

All Geared Lathe Machine

*A wide range
for your turning needs....™*



GHL 250



A wide range for your turning needs....

योग: कर्मषु कौशलम्।



SALIENT FEATURES

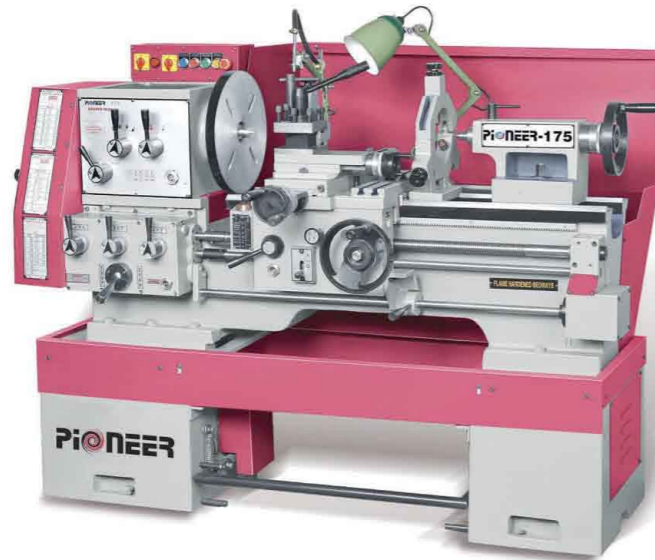
- Robust design with SPEED, PRECISION, RIGID and STRENGTH.
- Flame hardened & ground guide ways bed (Induction hardened Optional)
- Head stock Spindle is Hardened & ground made from 20mncr5 alloy steel mounted on taper roller bearings
- Head Stock Gears and Splines made from 20mncr5 alloy steel hardened and ground with profile grinding which is self lubricated and oil bath.
- Universal Feed Gear Box with Inch, mm, dp and module thread facility with easy operating speed change with JOY STICK and levers for wide range of threads and feeds. (Except Ecoturn)
- Universal Feed Box Gears & Splines made from EN-8 alloy steel toughened and mounted on bearings which is self lubricated and oil bath.
- No need of change gears while turn millimeter to inch - threads indicated in chart in selective models.
- Self lubricated fully closed right hand wheel type apron with drop out type worm with finger tip control (Except Ecoturn & SAG)
- Thread shaft and Feed shaft separate for long life (Except Ecoturn)
- The robust designed tail stock with hardened and ground spindle of EN-8 alloy steel
- Separate Electrical control panel board with Reverse, forward, inching and emergency stop (Except Ecoturn)
- Timing Belt pulleys instead of change gears in selective models.
- Taper wages of SG iron casting in cross slide in selective model
- 4 Position Tool post with 5 Position in-built indexing.
- All standards in MILLIMETER.
- Electro mechanical brake with starting third shaft (optional)
- Instruction Manual Book

Ecoturn



ECT-1-2

GHL 175



GHL-1-2

GHL 215



GHL- 3-4

GHL 250-PL



GHL- 7-8

SAG 254



SAG -1-2-3-4-5

GHL 300



GHL-11-12-13-14-15

www.allgearedlathe.com
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SPECIFICATIONS

Description	Pioneer - Ecoturn	Pioneer - GHL - 175	Pioneer - GHL - 215	Pioneer GHL - 250 - PL	Pioneer GHL - 250	Pioneer SAG - 254	Pioneer - GHL - 300
Height of Center (mm)	215	175	215	250	250	254	300
Swing Over Bed (mm)	425	350	430	500	500	500	600
Swing Over Cross Slide (mm)	250	176	250	320	290	300	370
Distance Between Center (mm)	750 / 1000	750/1000	1000/1500	1000 / 1500	1000 / 1500	1000/1500/2000/2500/3000	1000/1500/2000/2500/3000/3500
Max. Swing in Gap (mm)	620	620	700	750	770	800	850
Bed							
Bed Type	2V & 2 FLAT	2V & 2 FLAT	2V & 2 FLAT	2V & 2 FLAT	2V & 2 FLAT	2V & 2 FLAT	2V & 2 FLAT
Bed Width (mm)	279	280	280	280	355	325	355
Length of Gap in front of Face Plate (mm)	120	160	160	160	160	175	150
Head Stock							
Number of Spindle Speeds	8	8 (std.) 16 (Optni.)	8 (std.) 16 (Optni.)	8 (Std.) 16 (Optni.)	18	8	12
Spindle Speed Range : R.P.M.	54 to 1200	54-1200 (std.) 54-1700 (Optni.)	54-1200 (std.) 54-1700 (Optni.)	54-1200 (Std.) 54-1700 (Optni.)	32 to 1600 (Std.) 40-2000 (Optni.)	30 to 1300 (Std.) 40-1700 (Optni.)	27 to 700 (Std.) 45-1200 (Optni.)
Type & Size of Spindle Nose	A/2 - 4	Cam Lock, size D1-4	Cam Lock, size D1-4	A/2 - 6	Cam Lock, size 6*	A/2-6	A/2-8
Spindle Bore (mm)	40 mm	40 mm	40 mm	55 mm	55 mm	52 mm	80 mm
Spindle Taper Number	MT-5	MT-5	MT-5	MT-6	MT-6	MT-6	MT-6
Diameter of Front Bearing	OD 110 x ID 60	OD 110 X ID 60	OD 110 X ID 60	OD 130 x ID 85	OD 150 X ID 85	OD 140 X ID 80	OD 200 x ID 110
Feeds and Threads							
Number of Feeds	55	72	76	76	76	72	72
Range of longitudinal Feeds (mm/Rev)	0.08 - 1.48 mm/Rev.	0.033 to 0.739	0.026 to 0.936	0.026 to 0.936	0.037 to 1.34	0.057 to 1.600	0.037 to 1.34
Range of Cross Feeds (mm/Rev)	0.017 - 0.250 mm/Rev.	0.021 to 0.458	0.016 to 0.58	0.016 to 0.58	0.016 to 0.58	0.014 to 0.4	0.016 to 0.58
Number of Threads	55	104	106	106	106	105	105
Range of Metric Threads/No.	0.5 to 7.5 (20)	0.2 to 7 mm (32)	0.2 to 7 mm (33)	0.2 to 7 mm (33)	0.2 to 7 mm (33)	0.2 to 7 mm (33)	0.2 to 7 mm (33)
Range of Inch Threads/No.	60 to 4 T.P.I. (35)	72 to 4 TPI (36)	72 to 4 TPI (36)	72 to 4 T.P.I. (36)	72 to 4 T.P.I. (36)	72 to 4 TPI (36)	72 to 4 TPI (36)
Range of Module Threads/No.	-	0.4 to 3 Module (15)	0.3 to 3 Module (16)	0.3 to 3 Module (16)	0.3 to 3 Module (16)	0.4 to 3 Module (15)	0.4 TO 3 Module (15)
Range of D.P. Threads/No.	-	44 to 8 D.P. (21)	44 to 8 D.P. (21)	44 to 8 D.P. (21)	44 to 8 D.P. (21)	44 to 8 D.P. (21)	44 to 8 D.P. (21)
Lead Screw Dia (mm)	31.75	31.75	31.75	31.75	38.1	38.1	38.1
Lead Screw Pitch (mm)	4 T.P.I.	6 mm	6 mm	6mm	6 mm	6 mm	6mm
Saddle							
Cross Slide Dimension (mm)	168 x 367	178 X 415	178 X 415	178 x 415	250 X 500	200 X 450	250 X 500
Cross Slide Travel (mm)	225	225	225	225	325	325	325
Tool Shank Section (mm)	25 x 25	22 X 22	25 X 25	25 x 25	25 X 25	25 X 25	25 x 25
Saddle Traverse (mm)	640/890	640/890	890/1390	870 / 1370	890/1390	890/1390/1890/2390/2890	900/1400/1900/2400/2900/3400
Compound Slide Traverse (mm)	130	130	130	130	150	150	150
Tail Stock							
Spindle Dia (mm)	50.8	50.8	50.8	50.8	63.5	50.8	63.5
Spindle Taper Number	MT-3	MT-3	MT-3	MT-4	MT-4	MT-4	MT-4
Spindle Travel	175	175	175	175	200	200	200
Lateral Move of Tail Stock (mm)	5	5	5	5	5	5	5
Motor							
Main Motor (Kw.)	1.5	1.5	2.25	2.25	3.75	3.75 Std. (5.5 Optni)	5.5 Std. (7.5 Optni)

* As per IS 2582 Part II-(1972)

Standard Accessories
Four Position Tool Post, Tool Post Spanner, Center Adapter, 2-Nos. Dead Centers, Electric Motor with electrical controls, Thread Dial Indicator, Chip Tray, Oil Gun, Tool Kit, Manual book.

Extra Accessories
Collet attachment & Collets, Taper Turning Attachment, Rear Tool Post, Electro Mechanical Brake with Starting Third Shaft, Machine Lamp, Chuck Flange, Face plate, Follow Rest, Steady Rest, Quick Change Tool Post, Coolant Pump & Fitting, Rear Splash Guard, Carrier Plate, True Chuck, Dog Chuck

MODEL	FLOOR SPACE (Approx)	WEIGHT kgs. (Approx) Net	WEIGHT kgs. (Approx) Gross	CASE DIMENSIONS (Approx) L x W x H		
ECT - 1	2300 x 1000mm	920	1120	2500	1100	1600
ECT - 2	2600 x 1000mm	980	1180	2800	1100	1600
GHL - 1	2300 x 1000mm	1000	1200	2500	1100	1600
GHL - 2	2600 x 1000mm	1200	1400	2800	1100	1600
GHL - 3	2600 x 1000mm	1250	1450	2800	1100	1600
GHL - 4	3100 x 1000mm	1500	1750	3300	1100	1600
GHL - 7	2600 x 1000mm	1350	1550	2800	1100	1700
GHL - 8	3100 x 1000mm	1550	1750	3300	1100	1700
GHL - 5	2800 x 1000mm	1800	2100	3000	1100	1600
GHL - 6	3300 x 1000mm	2100	2400	3500	1100	1600

MODEL	FLOOR SPACE (Approx)	WEIGHT kgs. (Approx) Net	WEIGHT kgs. (Approx) Gross	CASE DIMENSIONS (Approx) L x W x H		
SAG - 1	3200 x 1000mm	1750	2075	3400	1100	1400
SAG - 2	3800 x 1000mm	1850	2150	4000	1100	1400
SAG - 3	4300 x 1000mm	2250	2550	4500	1100	1400
SAG - 4	4800 x 1000mm	2400	2800	5000	1100	1400
SAG - 5	5300 x 1000mm	2550	2900	5500	1100	1400
GHL - 11	2700 x 1100mm	2100	2400	2900	1200	1800
GHL - 12	3200 x 1100mm	2250	2550	3400	1200	1800
GHL - 13	3800 x 1100mm	2700	3000	4000	1200	1800
GHL - 14	4400 x 1100mm	3000	3400	4600	1200	1800
GHL - 15	4900 x 1100mm	3300	3700	5100	1200	1800

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NOTE :
 (1) All The above specifications are approximate and subject to change without prior notice as improvements are made from time to time.
 (2) The description "standard accessories / Salient features" conforms to its list not the photo of models shown in the catalogue and subject to change without prior notice as improvements are made from time to time.