

PA series

PA-35

- Swing over bed - 880 mm. (35")
- Swing over gap - 1,340 mm. (53")
- Distance between centers 1,500~12,000mm
- Spindle bore 6" ~ 14"
- Spindle motor - 20 HP.
- 2-way track

PA-40

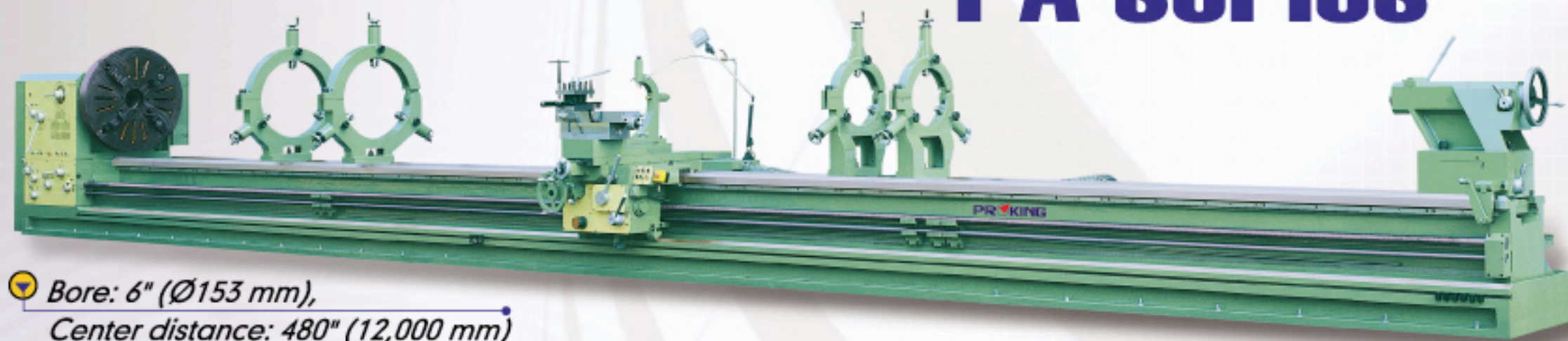
- Swing over bed - 1,010 mm. (40")
- Swing over gap - 1,470 mm. (58")
- Distance between centers 1,500~12,000mm
- Spindle bore 6" ~ 14"
- Spindle motor - 20 HP.
- 2-way track

PA-45

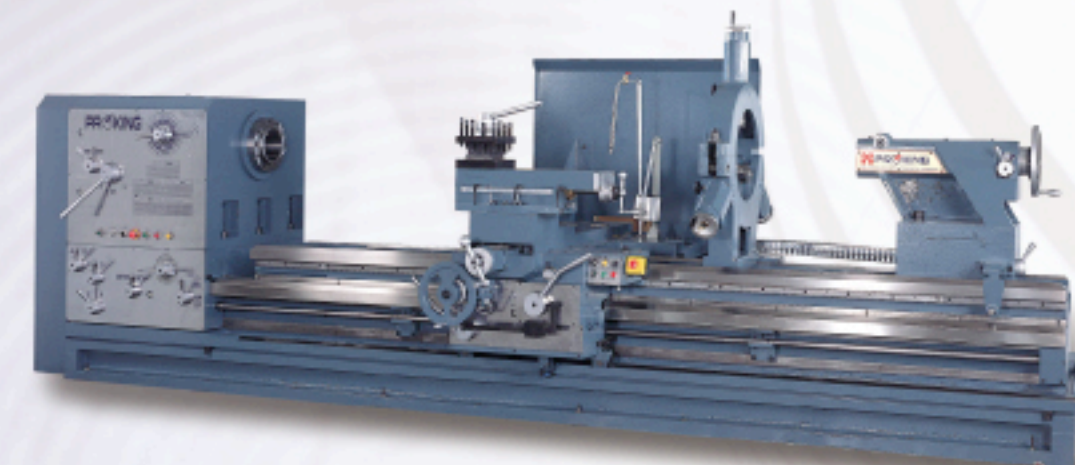
- Swing over bed - 1,135 mm. (45")
- Swing over gap - 1,600 mm. (63")
- Distance between centers 1,500~12,000mm
- Spindle bore 6" ~ 16"
- Spindle motor - 20 HP.
- 2-way track

PA-50

- Swing over bed - 1,275 mm. (50")
- Swing over gap - 1,740 mm. (69")
- Distance between centers 1,500~12,000mm
- Spindle bore 6" ~ 16"
- Spindle motor - 20 HP.
- 2-way track

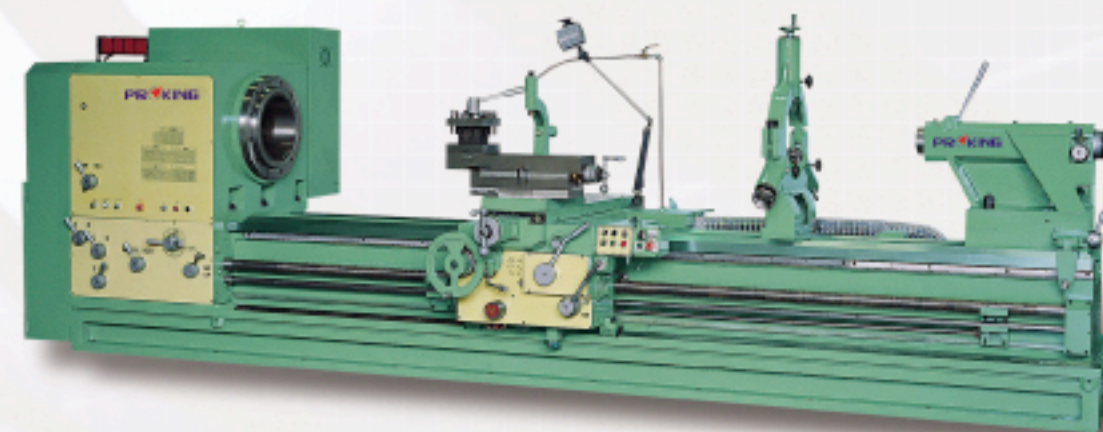


Bore: 6" (Ø153 mm),
Center distance: 480" (12,000 mm)



Equipped with stainless steel bed guard.

Bore: 6" (Ø153 mm),
Center distance: 120" (3,000 mm)

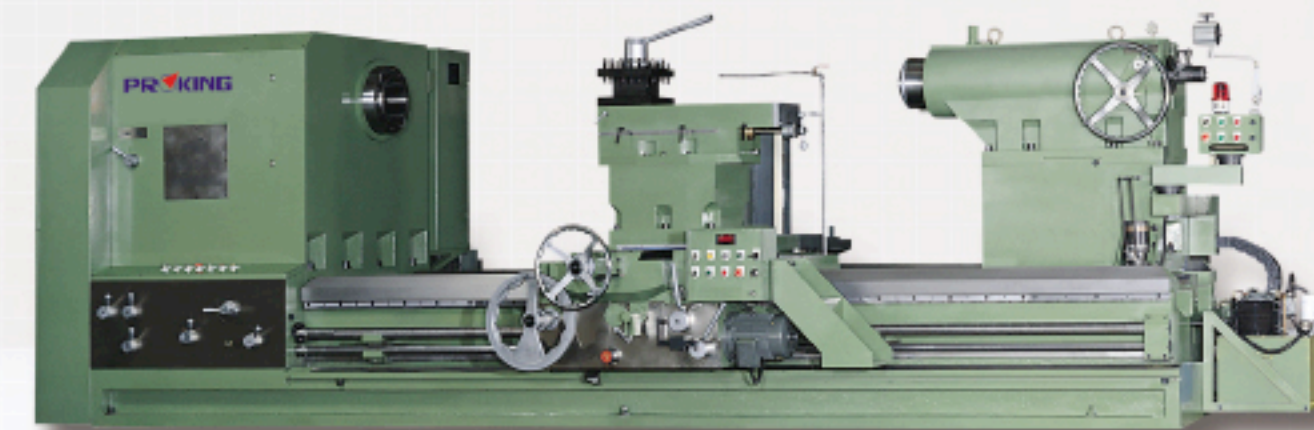


Bore: 12-1/2" (Ø310 mm),
Center distance: 120" (3,000 mm)

PK series



Bore: 9" (Ø230 mm),
Center distance: 240" (6,000 mm)



Bore: 9" (Ø230 mm),
Center distance: 120" (3,000 mm)

HEAVY DUTY GAP LATHES

PB-45

- Swing over bed - 1,135 mm. (45")
- Swing over gap - 1,610 mm. (63")
- Distance between centers 1,500~12,000mm
- Spindle bore 6" ~ 22"
- Spindle motor - 30 HP.
- 2-way track

PB-70

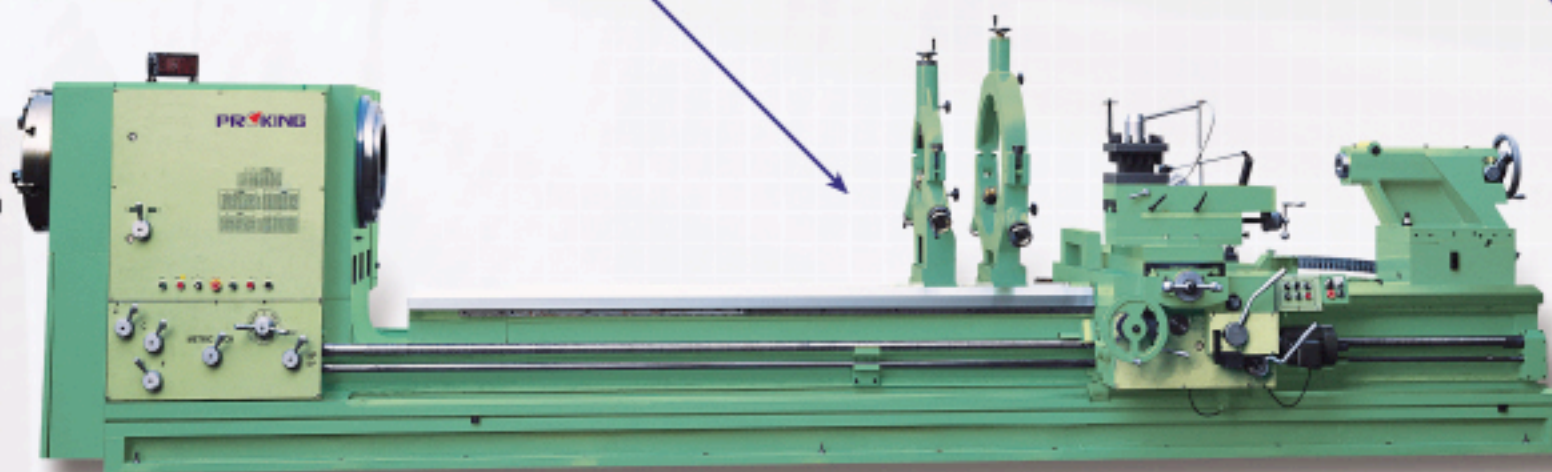
- Swing over bed - 1,790 mm. (70")
- Swing over gap - 2,230 mm. (87")
- Distance between centers 1,500~12,000mm
- Spindle bore 6" ~ 24"
- Spindle motor - 30 HP.
- 2-way track

PB-50

- Swing over bed - 1,275 mm. (50")
- Swing over gap - 1,730 mm. (68")
- Distance between centers 15,00~12,000mm
- Spindle bore 6" ~ 24"
- Spindle motor - 30 HP.
- 2-way track

PB-60

- Swing over bed - 1,527 mm. (60")
- Swing over gap - 1,980 mm. (78")
- Distance between centers 1,500~12,000mm
- Spindle bore 6" ~ 24"
- Spindle motor - 30 HP.
- 2-way track



Bore: 9" (Ø230 mm),
Center distance: 160" (4,000 mm)

PK-70

- Swing over bed - 1,790 mm. (70")
- Swing over gap - N/A
- Distance between centers 1,500~1,200mm
- Spindle bore 9" ~ 24"
- Spindle motor - 50 HP.
- 4-way track

PK-80

- Swing over bed - 2,040 mm. (80")
- Swing over gap - N/A
- Distance between centers 1,500~1,200mm
- Spindle bore 9" ~ 24"
- Spindle motor - 50 HP.
- 4-way track

PK-100

- Swing over bed - 2,540 mm. (100")
- Swing over gap - N/A
- Distance between centers 1,500~1,200mm
- Spindle bore 9" ~ 24"
- Spindle motor - 50 HP.
- 4-way track

PK-90

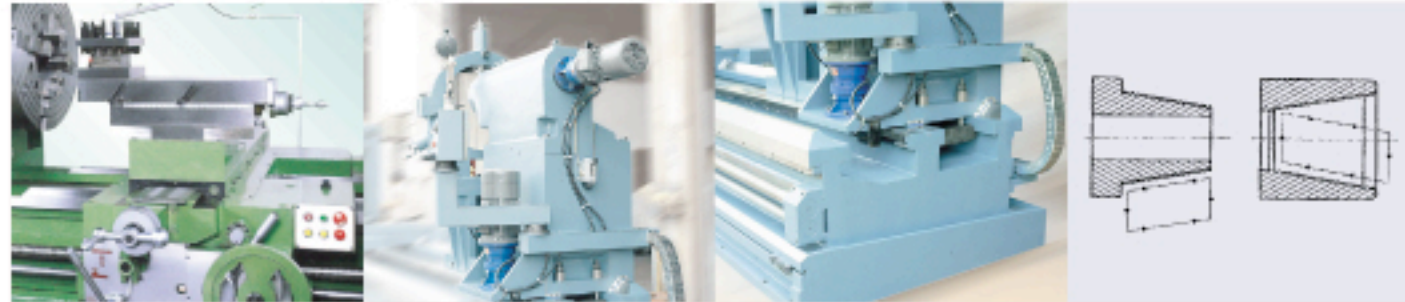
- Swing over bed - 2,290 mm. (90")
- Swing over gap - N/A
- Distance between centers 1,500~1,200mm
- Spindle bore 9" ~ 24"
- Spindle motor - 50 HP.
- 4-way track

High Precision, Maximum Durability, Easy to Operate and Maximum Dependability.

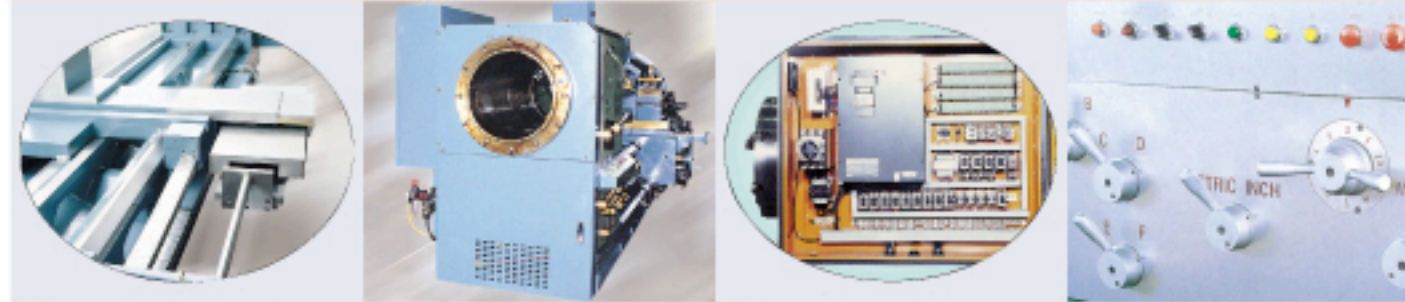
This quality designed and engineered heavy duty precision lathe delivers extremely powerful cutting capability and maximum rigidity. It is ideal for a wide variety of machining applications for various industries, such as machine parts, mining, steel refining, power plants, paper making, ship building, textiles and general industrial machinery. It gives high precision machining performance and is easy to operate.

Ruggedly Built . . . Maximum Stability . . . Performance that You Can Rely On . . .

Pronging heavy duty gap lathes are designed and engineered to let you turn heavy parts smoothly and efficiently. Their massive construction ensures maximum stability while performing heavy duty cutting operations. Built by our experienced technicians, these heavy duty gap lathes have been carefully inspected and tested before shipment to ensure high performance turning year after year.



- Saddle and apron. Mechanical power feed and rapid travel for saddle, cross slide and tool post.
- Tailstock (PK Series)
- 4-way track (PK Series)
- Semi-automatic cycle-turning and threading.



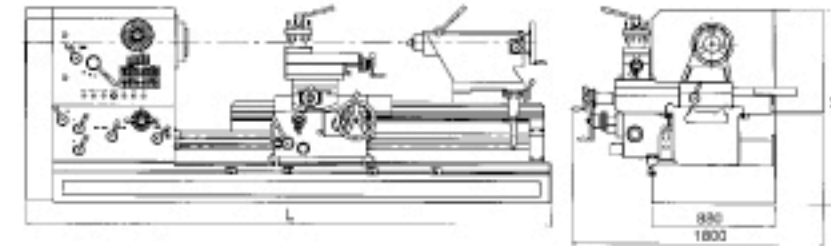
- Taper turning attachment (optional) (PK Series)
- Spindle bore 21" (535 mm.)
- Infinitely variable speed electrical cabinet (optional)
- Constant surface speed (optional)
- Universal gear box



- Bedway (PA, PB Series)
- Headstock and spindle 18 step spindle speed
- 4 step gear + infinite speed (optional)
- Constant surface speed (optional)
- Taper turning attachment (optional) (PA, PB Series)

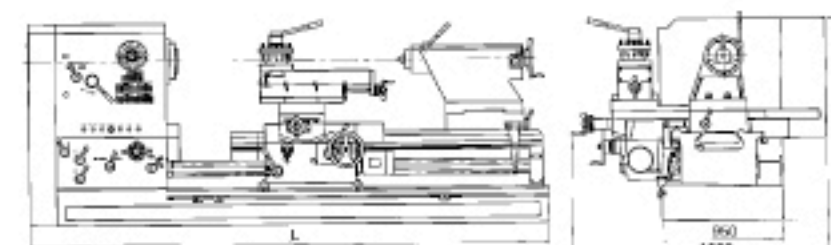
DIMENSIONS

PA Series



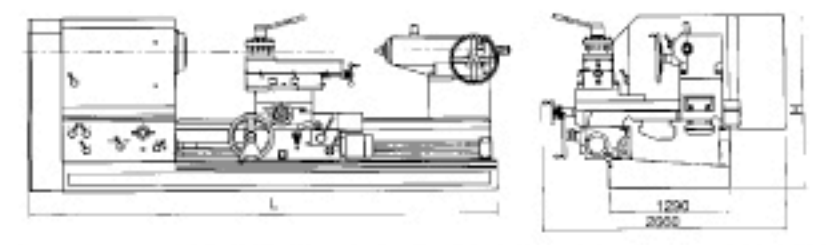
L	3690	4190	4690	5190	5690	6190	7190	8190	9190	10190	11190	13190	14190
Center Distance	1500	2000	2500	3000	3500	4000	5000	6000	7000	8000	9000	11000	12000

PB Series



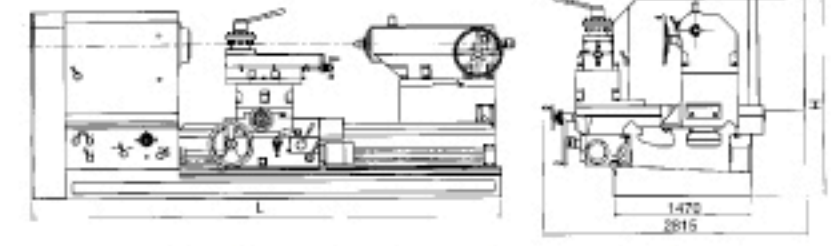
L	4010	4510	5010	5510	6010	6510	7510	8510	9510	10510	11510	12510	14510
Center Distance	1500	2000	2500	3000	3500	4000	5000	6000	7000	8000	9000	11000	12000

PH Series



L	4950	5450	6450	7450	8450	9450	10450	11450	12450	13450	14450	15450
Center Distance	1500	2000	2500	4000	5000	6000	7000	8000	9000	10000	11000	12000

PK Series



L	4950	5450	6450	7450	8450	9450	10450	11450	12450	13450	14450	15450
Center Distance	1500	2000	2500	4000	5000	6000	7000	8000	9000	10000	11000	12000

PA & PB & PH & PK Series Specifications:

ITEM	UNIT	PA-35	PA-40	PA-45	PA-50	PB-45	PB-50	PB-60	PB-70	PH-50	PH-60	PH-70	PH-80	PK-70	PK-80	PK-90	PK-100														
CAPACITY																															
Center height	mm. (in.)	440 (17.5)	505 (20)	568 (22.5)	638 (25)	568 (22.5)	638 (25)	764 (30)	895 (35)	638 (25)	764 (30)	895 (35)	1020 (40)	895 (35)	1020 (40)	1145 (45)	1270 (50)														
Swing over bed	mm.(in.)	880 (35)	1010 (40)	1135 (45)	1275 (50)	1135 (45)	1275 (50)	1527 (60)	1790 (70)	1275 (50)	1527 (60)	1790 (70)	2040 (80)	1790 (70)	2040 (80)	2290 (90)	2540 (100)														
Swing over cross-slide	mm. (in.)	610 (24)	740 (29)	870 (34)	1010 (40)	810 (32)	950 (37)	1201 (47)	1460 (57)	885 (35)	1137 (45)	1400 (55)	1650 (65)	1350 (53)	1590 (63)	1840 (730)	2090 (82)														
Swing over gap	mm. (in.)	1340 (53)	1470 (58)	1600 (63)	1740 (69)	1610 (65)	1730 (68)	1980 (78)	2230 (88)	N/A																					
Gap width from headstock	mm. (in.)	600 (24)																													
Distance between centers	mm. (in.)	1500 (60), 2000 (80), 2500 (100), 3000 (120), 3500 (140), 4000 (160), 5000 (200), 6000 (240), 7000 (280), 8000 (320), 9000 (360), 10000 (400), 11000 (440), 12000 (480)																													
BED																															
Width (W/O Auxiliary guide)	mm. (in.)	560 (22)				715 (28)				1020 (40)				1210 (47.5)																	
Width (W Auxiliary guide)	mm. (in.)	660 (26)				812 (32)				1195 (47)				1370 (54)																	
HEADSTOCK																															
Spindle nose		A2-11,			A2-15,			A2-11,			A2-15,			A2-15,			A2-20,			A2-20,			A2-28,			A2-28,			A2-32,		
Spindle bore	mm. (in.)	153 (6.02)			230 (9.05)			153 (6.02)			230 (9.05)			255 (10.03)			318 (12.51)			360 (14.17)			410 (16.14)			535 (21.06)			610 (24.02)		
Spindle step		18 steps (manual)																													
Spindle speeds	1 range - rpm	Auto 4 steps (with inverter)																													
	2 range - rpm	18 ~ 130,			16 ~ 120,			13 ~ 95,			12 ~ 85,			10 ~ 75,			8 ~ 50,			6 ~ 40,			4 ~ 25,								
	3 range - rpm	35 ~ 260,			30 ~ 200,			25 ~ 185,			23 ~ 170,			20 ~ 150,			15 ~ 100,			12 ~ 80,			8 ~ 50,								
	4 range - rpm	85 ~ 550,			70 ~ 420,			60 ~ 400,			55 ~ 300,			50 ~ 250,			35 ~ 200,			30 ~ 180,			20 ~ 140,								
		165 ~ 1000,			150 ~ 700,			120 ~ 600,			110 ~ 400,			95 ~ 350,			65 ~ 300,			50 ~ 250,			40 ~ 220,								
CARRIAGE																															
Cross-slide travel	mm. (in.)	670 (26.4)				800 (31.5)				1100 (43) Long carriage				1300 (51) Long carriage																	
Compound rest travel	mm. (in.)	450 (18)				500 (20)				600 (24)																					
THREAD FEEDS RANGE																															
Longitudinal feed	mm./rev (in/rev)	0.045 ~ 2.55 (0.0018 ~ 0.1)																													
Cross feed	mm./rev (in./rev)	0.023 ~ 1.28 (0.0009 ~ 0.05)																													
Longitudinal rapid lead	mm./min. (in./min.)	2000 (80)																													
Cross rapid feed	mm./min. (in./min.)	1270 (50)																													
Metric thread	mm.(kinds)	1 ~ 56 (60)																													
Inch thread	TPI (kinds)	1/2 ~ 28 (60)																													
Module thread	MOD (kinds)	0.25 ~ 14 (60)																													
Diametral pitch thread	DP (kinds)	2 ~ 112 (60)																													
Pitch of leadscrew	mm. (TPI)	12 (2)																													
TAILSTOCK																															
Quill diameter	mm. (in.)	115 (4.5)				145 (5.75)				235 (9.25)				280 (11)																	
Quill travel	mm. (in.)					200 (7.87)								250 (10)																	
Inner taper of quill		MT #6																													
Bearing surface on bed ways	mm. (in.)	500 (19.75)				600 (23.5)				660 (26)				1120 (44)																	
MOTOR																															
Main spindle motor	KW (HP)	15 (20)-STD. 22.5 (30) / 30 (40)-OPT.			22.5 (30)-STD. 30 (40) / 37 (50)-OPT.			30 (40)-STD. 37 (50) / 56 (70)-OPT.			37 (50)-STD. 256 (75) / 75 (100)-OPT.																				
Coolant pump motor	KW (HP)	0.1 (0.125)																													
MACHINE WEIGHT																															
2,000 mm. center distance	kgs.(lbs.)	10300(22000)	10350(22770)	10700(23540)	11050(24310)	13200(29040)	13600(29920)	14400(31680)	15200(33440)	16700(36740)	17700(38940)	18700(41440)	19700(43340)	22700(49940)	24200(53240)	25700(56540)	27200(59840)														

Specifications are subject to change request without notice for improvement.