

# Dimensions and technical characteristics (Universal Lathes)

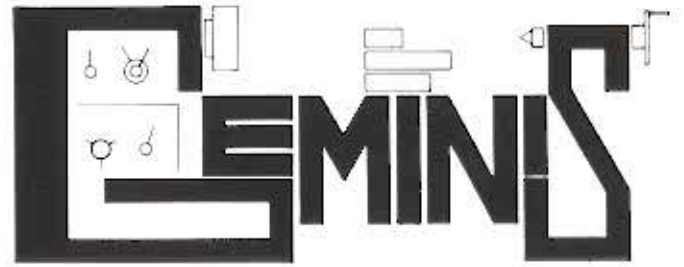
DENOMINATION	Unit	MEDIUM SERIES			MEDIUM SERIES (SPECIAL)			MEDIUM SERIES (STRONG)	
		GE-650	GE-870	GE-1000	GE-680	GE-870	GE-1000	GE-1000-A	GE-1150-A
<b>CAPACITY</b>									
Height of centres from the flat guide	mm.	335	430	500	330	430	500	480	555
Max. swing over carriage	mm.	410	580	720	410	580	720	650	800
Max. swing over gap	mm.	850	1100	1240	850	1100	1240	1300	1450
Max. swing over bed	mm.	680	870	1000	680	870	1000	1000	1150
Length of gap from nose	mm.	310		340	310		340		450
Distance b.c. (others on demand)	m.	1 to 6		1 to 10	1 to 6		1 to 10		1 to 12
<b>HEADSTOCK</b>									
Main spindle bore diameter	mm.	ø4-104*	84-104*	104-162*	84-104*	84-104*	104-162*	104-162*	104-162*
Nose according to	Size	8"-11"*	8"	8"	8"-11"*	8"	8"	11"-15"*	11"-15"*
Spindle diameter on front bearings	mm.	130-150*	130-150*	130-150*	130-150*	130-150*	130-150*	160-220*	160-220*
<b>SPEEDS</b>	Number		18			18		24	
Standard range	r.p.m.		13-1000			13-1000		4.5-900	
Rapid range	r.p.m.		16-1250*			16-1250*		5.6-1120*	
<b>MOTORS</b>									
Main motor on max. standard range	Kw.	11 (15 HP)	15 (20 HP)		11 (15 HP)	15 (20 HP)		22 (30 HP)	
Main motor on max. fast range	Kw.	15 (20 HP)*	18.5 (25 HP)*		15 (20 HP)*	18.5 (25 HP)*		29.5 (40 HP)*	
<b>THREADS AND FEEDS</b>									
Leadscrew diameter	mm.		50			50		60	
Thread of leadscrew	mm.-t.p.i.	6	4*			12-2*		12-2*	
Metric threads	mm.	48 from 0.5 to 30	30 from 0.5 to 30			54 from 1 to 60		154 from 0.4 to 600	
Module threads	Module	31 from 0.25 to 15				48 from 0.5 to 30		108 from 1 to 150	
Whitworth threads	T.P.I.	30 from 3/8 to 50	48 from 1 to 56			54 from 30 to 1/2		165 from 40 to 3/32	
Diametral pitch threads	pitch		48 from 2 to 112			54 from 60 to 1		179 from 160 to 3/8	
<b>CARRIAGES</b>									
Length of longitudinal slide	mm.	620	800		650	800		900	
Width of cross slide	mm.	260	350		260	350		380	
Travel of cross slide	mm.	350	415	465	335	460		620	
Max. distance from centre to turret	mm.	310	352	422	295	423		520	
Travel of swivel slide	mm.								
Travel of tool holder slide	mm.	150	250		150	250		250	
Tool section	mm.	32 x 32	40 x 40		32 x 32	40 x 40		40 x 40	
<b>TAILSTOCK</b>									
Quill diameter	mm.	85	100		85	120		140	
Travel of the quill	mm.	270	310		270	310		300	
Center		Morse 5 - 60°	Morse 6 - 60°		Morse 5 - 60°	Metric 80 - 60°		Metric 80 - 60°	
<b>BED</b>									
Width	mm.	450	550		450	550		680	
Height to the flat guide	mm.	805	805		805	805		750	

DENOMINATION	Unit	SEMI HEAVY SERIES 2 BEDWAYS			SEMI HEAVY SERIES 3 BEDWAYS		HEAVY SERIES 2 BEDWAYS			HEAVY SERIES 3 BEDWAYS		
		GE-1200 S	GE-1400 S	GE-1600 S	GE-1200 S-3G	GE-1400 S-3G	GE-1800	GE-2000	GE-2200	GE-1800-3G	GE-2000-3G	GE-2200-3G
<b>CAPACITY</b>												
Height of centres from the flat guide	mm.	600	700	800	605	705	900	1000	1100	905	1005	1105
Max. swing over carriage	mm.	870	1070	1230	1000	1200	1440	1640	1840	1480	1680	1880
Max. swing over gap	mm.	1600	1800	2000			1940	2140	2340			
Max. swing over bed	mm.	1260	1440	1630	1200	1400	1800	2000	2200	1800	2000	2200
Length of gap from nose	mm.		530					632				
Distance b.c. (others on demand)	m.		1 to 16		1 to 18		1 to 18			1 to 24		
<b>HEADSTOCK</b>												
Main spindle bore diameter	mm.	104-162*	412*	514*	104-162*	412*	514*	104		104		
Nose according to	Size	11"-15"*	28"*		11"-15"*	28"*		15"		18"		
Spindle diameter on front bearings	mm.	200-240*	480*	600*	200-240*	480*	600*	240		280		
<b>SPEEDS</b>	Number		24		24			24		24		
Standard range	r.p.m.		2.80-560		2.80-560			1.80-240		1.12-224		
Fast range	r.p.m.		3.50-710*		3.50-710*			2.24-300*		1.40-280*		
<b>MOTORS</b>												
Main motor on max. standard range	Kw.		29.5 (40 HP)		29.5 (40 HP)			44 (60 HP)		74 (100 HP)		
Main motor on max. fast range	Kw.		37 (50 HP)*		37 (50 HP)*			55 (75 HP)*		92 (125 HP)*		
<b>THREADS AND FEEDS</b>												
Leadscrew diameter	mm.		50		65			65		75		
Thread of leadscrew	mm.-t.p.i.		12-2*		12-2*			12-2*		12-2*		
Metric threads	mm.		54 from 1 to 60		54 from 1 to 60			72 from 1 to 240		72 from 1 to 240		
Module threads	Module		48 from 0.5 to 30		48 from 0.5 to 30			66 from 0.5 to 120		66 from 0.5 to 120		
Whitworth threads	T.P.I.		54 from 30 to 1/2		54 from 30 to 1/2			72 from 30 to 1/8		72 from 30 to 1/8		
Diametral pitch threads	pitch		54 from 60 to 1		54 from 60 to 1			72 from 60 to 1/4		72 from 60 to 1/4		
<b>CARRIAGES</b>												
Length of longitudinal slide	mm.		1000		1050			1370		1525		
Width of cross slide	mm.		420		480			600		650		
Travel of cross slide	mm.	600	700	700	530		900	1000	1000	760		
Max. distance from centre to turret	mm.	585	685	785	625		820	920	1020	1020		
Travel of swivel slide	mm.		300		400			600		600		
Travel of tool holder slide	mm.		125		200			160		230		
Tool section	mm.		40 x 40		50 x 50			63 x 63		80 x 80		
<b>TAILSTOCK</b>												
Quill diameter	mm.		150		180			220		280		
Travel of the quill	mm.		275		270			320		350		
Center			Metric 80 - 60°		Incorporated Ø 70 - 75°			Incorporated Ø 80 - 90°		Incorporated Ø 100 - 90°		
<b>BED</b>												
Width	mm.		850		1150			1150		1450		
Height to the flat guide	mm.		650		700			720		770		

NOTE: FOR FURTHER DETAILS THERE IS AN INDEPENDENT CATALOGUE AVAILABLE FOR EVERY MODEL.

GEMINIS 850220





**GE-650, GE-870, GE-1000**



**GEMINIS, S. A. – ELGOIBAR (Spain)**

✉ 52 (Santa Clara, s/nº)

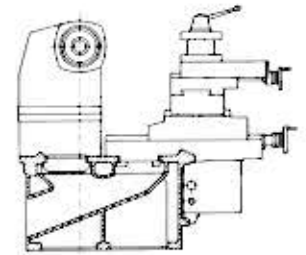
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✚ GEMINIS

✉ 36645 GEMI E

**GE-1000-A, GE-1150-A**

**Standard  
Manufacturing**



**GE-1200-S, GE-1400-S, GE-1600-S**

**GE-1200-S-3G, GE-1400-S-3G**

**GE-1800, GE-2000, GE-2200 (NOT SHOWN)**



**GE-1800-3G, GE-2000-3G, GE-2200-3G**

## **CNC LATHES**

SWING OVER BED FROM 680 to 2200 mm.

DISTANCE BETWEEN CENTERS FROM 1 to 24 m.

POWER FROM 30 to 150 HP.

