

## Application and Performance

This series heavy duty lathes adopt 1100mm wide rectangular induction hardened and ground bed guide-ways, so of excellent stability, high rigidity and with maximum bearing of 12 tons between centers. The main spindle is of precision roller bearings 3-point supporting structure. Saddle guide-ways with Teflon belt coated. Rotating tailstock quill structure to minimize friction and heat generation.

These machines are suitable for various turning works, such as turning of external and internal cylindrical surfaces, end faces and turning of metric or inch threads, modular threads and diametrical pitch threads etc. Motorized short taper turning could be done by the top slide independently and long taper's motorized turning could be done by top slide combined with longitudinal feed. Further more, these machines can also carry out drilling, trepanning and boring processes, etc.

Particulars	Units	C61125	C61160	C61200
<b>Capacities</b>				
Swing over bed	mm	1250	1600	2000
Swing over carriage	mm	900	1250	1650
Max.Length of workpiece	mm		3000 5000 6000 8000 10000	
Max.Turning length	mm		2800 4800 5800 7800 9800	
Span of Guideway	mm	1100		
<b>Spindle</b>				
Spindle nose code	mm	A215		
Spindle thru bore	mm	100		
Taper hole of spindle		140		
Number of forward turning speeds		21		
Number of reverse turning speeds		12		
Spindle speed forward	r/min	3.15 ~ 315		
Spindle speed reverse	r/min	3.5 ~ 291		
<b>Feed Motion</b>				
Number of feeds per revolution (Longitudinal/Transverse)		56/56		
Feed per revolution longitudinal	mm/r	0.1 ~ 12		
Feed per revolution transverse	mm/r	0.05 ~ 6		
Feed per revolution upper tool-post	mm/r	0.025 ~ 3		
Number and range of metric thread		44; 1~120mm		
Number and range of inch thread		31; 28~1/4"		
Number and range of module thread		45; 0.5~60mm		
Number and range of diametrical pitch thread		38; 1/2~56DP		
<b>Tool Post</b>				
Distance between spindle center-lind and tool resting plane	mm	53		
Section of tool shank	mm	50		
Tool post swing range		90 degree		
Max. travel of top slide	mm	380		
Max. travel of cross slide	mm	740	850	850
Tool post travel per turn of the dials of top or cross slide	mm	0.05		
Rapid travel speed Longitudinal	mm/min	3740		
Rapid travel speed Transverse	mm/min	1870		
Rapid travel speed Top slide	mm/min	935		
<b>Tailstock</b>				
Diameter of Tailstock quill	mm	200		
Travel of tailstock quill	mm	300		
Taper hole of tailstock quill		6		
<b>Machine overall dimension</b>				
Height	mm	2120	2670	2870
Width	mm	2360		
Max.weight of workpiece	Kg	12000		

\* All above mentioned informations are subject to change. Because of product improvement.



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