



## **CW61100B/125B/160B**

*CW61100B CW61125B CW61160B parallel lathes are suitable for turning or cast iron and steel workpieces, turning of non-ferrous metal parts of big or medium sizes. It can do external cylindrical surface turning, inner hole and end face turning. It can also turn various internal and external metric, inch, module and diametrical pitch threads, the top slide can be used independently for turning of short taper.*

*These lathes are of high power, high rigidity and wide rotating speed range, so it can be used for high speed and strong force turning.*

### **Main Structure**

#### **1. Bed with high rigidity**

*Casted in whole piece, box type internal structure, of high rigidity, with hardened guideway, TSF coated carriage to minimize the possibility of low speed stick-slip.*

#### **2. Main spindle with high rigidity and high accuracy**

*Spindle bearing of famous brand, spindle-box of heat-symmetrical structure to avoid spindle axis drifting, oil lubricating to minimize heat distortion. Spindle with three support structure to secure accuracy and increase rigidity, all gears quenched and tooth-ground to secure precise transmission and low noise. So the spindle is of low temperature rise, minimized heat distortion, and long-term steady high accuracy.*

Item	Unit	CW61100B	CW61125B	CW61160B
Swing over bed	mm	1000	1250	1640
Swing over carriage	mm	615	865	1250
Maximum length of workpiece	mm	1500/3000/5000/6000/8000/10000/12000/14000/16000/18000		
Maximum turning length	mm	1300/2800/4800/5800/7800/9800/11800/13800/15800/17800		
Span of guideway	mm	755		
Spindle nose	mm	A2-15(8XM22)		
Spindle bore	mm	130	130	130
Taper hole of spindle		1:20/140	1:20/140	1:20/140
Number of forward turning speeds		21		
Number of reverse turning speeds		12		
spindle speeds(forward)	r/min	3.15-315		
spindle speeds(reverse)	r/min	3.5-291		
Number of feeds per revolution(longitudinal/transverse)		56/56		

Feed per revolution(Longitudinal)	mm	0.1-12(0.004"-0.473")		
Feed per revolution(Transverse)	mm	0.05-6(0.002"-0.236")		
Feed per revolution(Upper tool-post)	mm	0.025-3(0.001"-0.118")		
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		
Distance between spindle center-line and tool resting plane	mm	48		
Section of tool shank	mm	□45		
Tool post swing range	°	±90°		
Maximum travel of carriage	mm	1450/2950/4950/5950/7950/9950/11950/13950/15950/17950		
Maximum travel of top slide	mm	300		
Maximum travel of cross slide	mm	520(20")	580(22")	630(24")
Tool post travel per turn of the dials of top or cross slide	mm	0.05(0.002")		
Rapid travel speed(longitudinal)	mm/min	3740		
Rapid travel speed(Transverse)	mm/min	1870		
Rapid travel speed(Top slide)	mm/min	935		
Diameter of tailstock quill	mm	160(6")	160(6")	160(6")
Travel of tailstock quill	mm	300(12")	300(12")	300(12")
Taper hole of tailstock quill		Morse 6	Morse 6	Morse 6
Main motor power	kw	22	22	22
Maximum weight of workpiece	kg	6000	6000	6000
Width	mm	2150	2150	2150
Height	mm	1700	1825	2150

*Remark: the workpiece limit Load:6 TONS.can change into limit load 8TONS;  
spindle bore 130mm,bed width 755mm*