

HERBERT-smith

EXTRA HEAVY DUTY ALL GEARED LATHES

WORLD CLASS

India's
Fastest
Selling
Lathe



CW61100B, CW61125B, CW61160B parallel lathes are suitable for turning of 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.



SHIV MACHINE TOOLS
A unit of SHIMATO GROUP

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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.

Standard Accessories

4 Jaw Chuck, Face plate, Steady Rest, Follow Rest, Rolling Steady Rest, Live Center, Centre Sleeve, Coolant System, Machine Lamp, Operation manual and Tool box.

Optional Accessories

3 Jaw Chuck, Steady rest (large diameter or extra sets), Roller support, Digital Read out (Position indicators) system.

SPECIFICATION

Particulars	CW61100B	CW61125B	CW61160B
Capacity			
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		
Maximum turning length (mm)	1300, 2800, 4800, 5800, 7800, 9800, 11800		
Span of guideway (mm)	755		
Spindle			
Spindle nose (mm)	A215 (8 x M22)		
Spindle bore (mm)	130		
Taper hole of spindle	1;20/140		
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		
Feed Motion			
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		
Tool Post			
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		
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		
Tailstock			
Diameter of Tailstock quill (mm)	160 (6")		
Travel of tailstock quill (mm)	300 (12")		
Taper hole of tailstock quill	MT 6		
Others			
Main motor power (KW)	22	22	22
Maximum weight of workpiece (Kg)	6000	6000	6000
Machine Overall Dimension			
Length	4600, 6100, 8100, 9100, 11100, 13100, 15100		
Height	1700	1825	2150
Width	2150		
Machine Mass	9200 onwards	10200 onwards	11400 onwards

Note:All specifications are subject to change without prior notice.