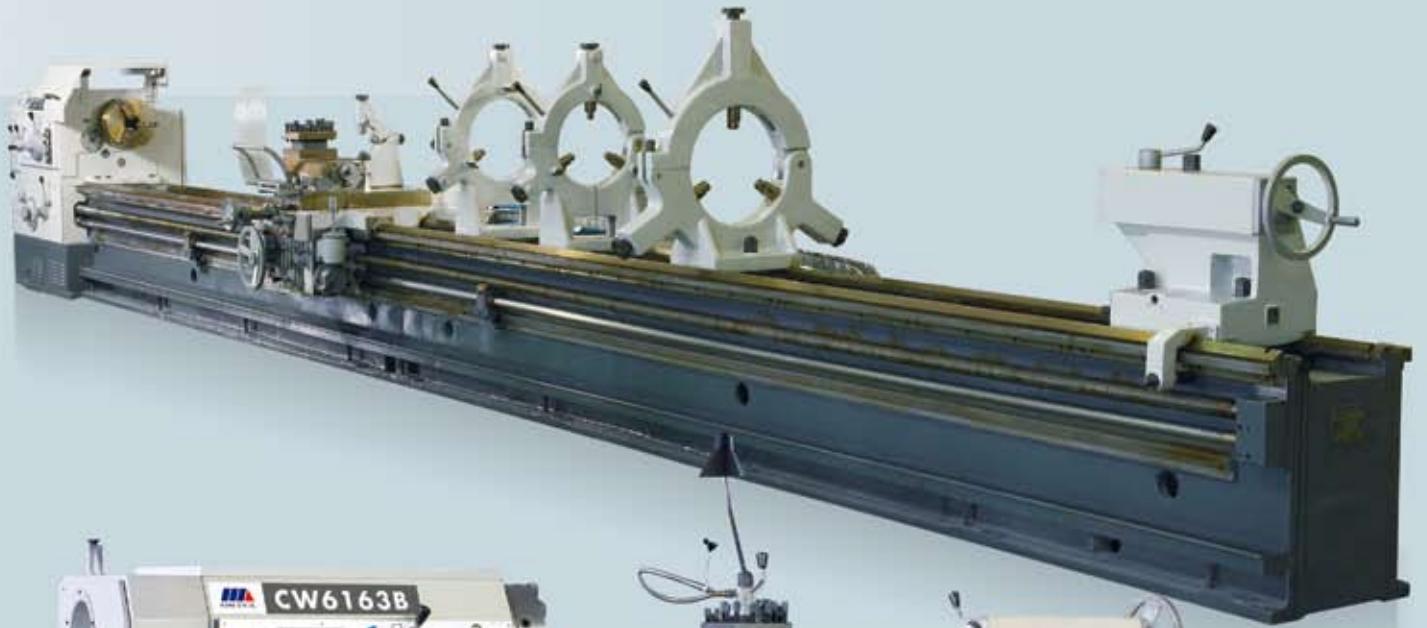




CW series

www.wme.cn/Lathe/

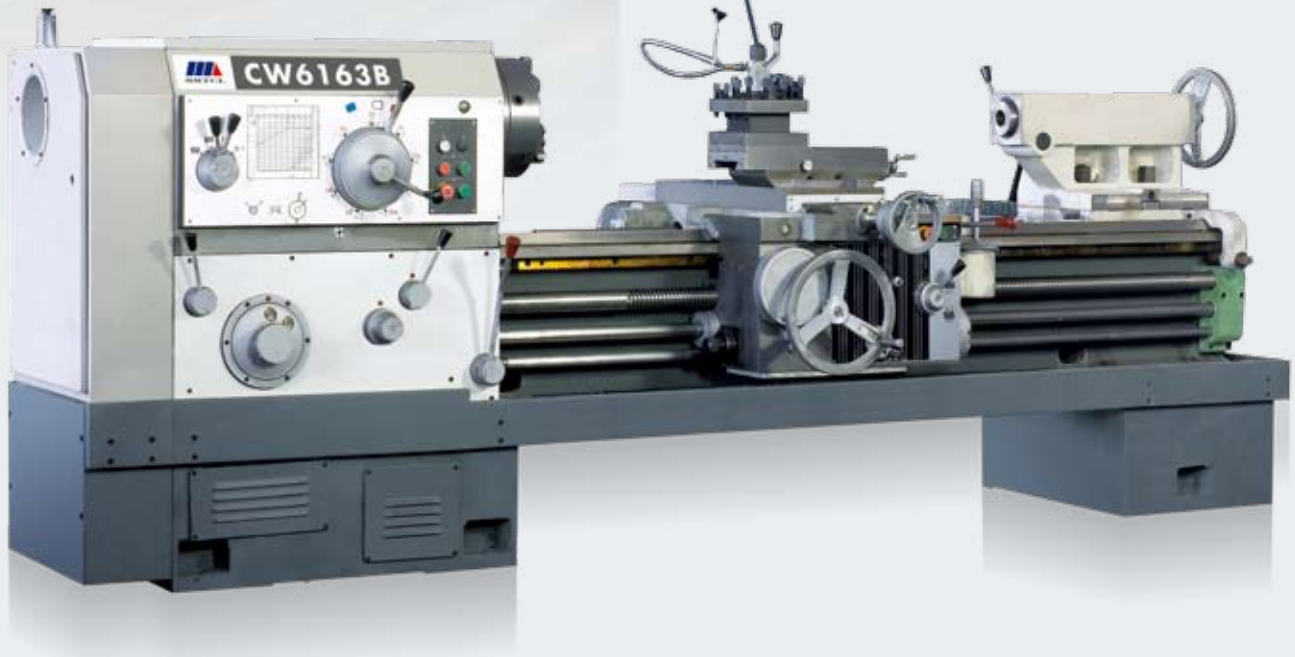
Vanguard CW series engine lathes are constructed of high quality alloy castings. Its large torque and high spindle speeds allow quicker cutting operations for faster turn around. The spindles are forged steel and are supported by precision NSK bearings which give it greater accuracy ensuring very precise turning capabilities. All bed ways are induction hardened and precision ground on CNC way grinding machines thus enhancing machine life. Its gear box is totally enclosed, and has an automatic forced lubrication system.



Lathe CW6163B



CW6163B



The side wall of the bed is double-ribbed and coupled with internal rib plates. Rigidity of machines increases by 33% compared to that of N-type ribs of single wall construction. The 4-way rapid traverse is located on the saddle and is operated by a single handle for operator efficiency.

Standard Equipment

- 3-jaw chuck
- Follow rest
- Steady rest
- Center and Sleever
- Flood coolant system
- Machine work light

Optional Equipment

- 3 & 4 jaw chucks
- Steady Rest (larger diameters)
- Taper attachment
- Thread cutting dial
- Digital readout
- Adjustable pads

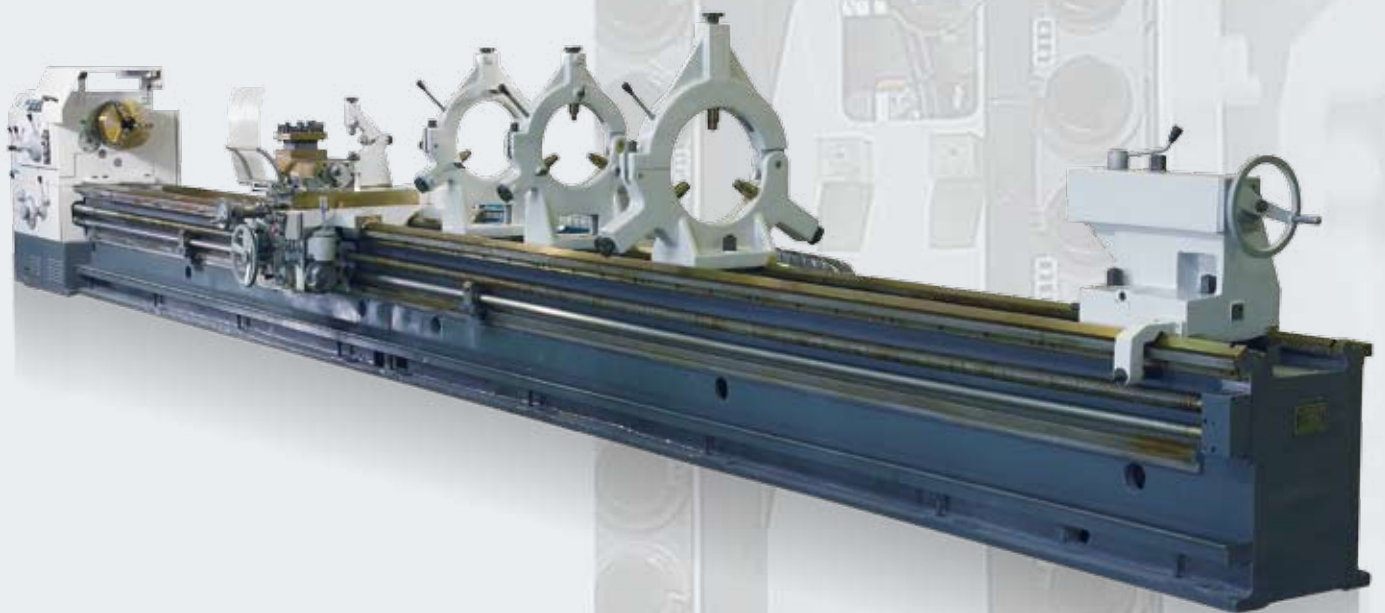
CW6180B



Both rigidity of construction and rigidity of transmission are high, so precision is stable and heavy cut can be carried out.

Owing to the saddle guideway which is inlaid with "TFS" wear-resisting material plate, the carriage moves lightly and nimbly. The service life of the guideway is extended. Lubricating system circulates from the external independent storage tank, thus cutting precision is increased.

The spindle bore is 104mm. The tailstock is equipped with a graduated disc and graduated line. The machine is characterized with elegant appearance and easy to be cleaned and maintained.



Standard Equipment

3 jaw chuck	Center and Sleever
4 jaw chuck	Flood coolant system
Face plate	Machine work light
Follow rest	
Steady rest	

Optional Equipment

- Face plate
- 3 & 4 jaw chucks
- Steady Rest (larger diameters)
- Taper attachment
- Thread cutting dial
- Digital readout
- Adjustable pads



CW61125B



Standard Equipment

- 4 jaw chuck
- Face plate
- Follow rest
- Steady rest
- Rolling steady rest
- Live center
- Center and Sleever
- Flood coolant system
- Machine work light

Optional Equipment

- 3 & 4 jaw chucks
- Steady Rest (larger diameters)
- Roller support
- Digital readout
- Adjustable pads

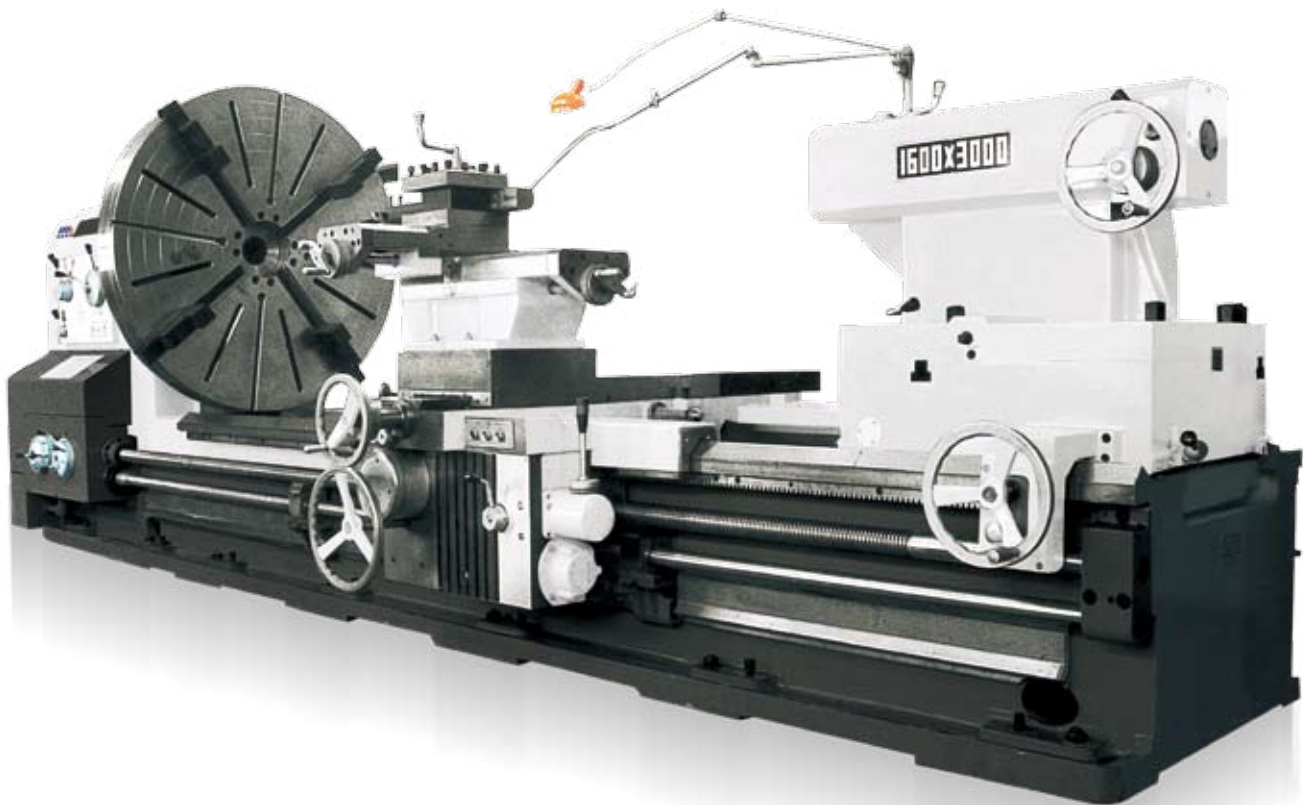
Braking and rotating-direction change of spindle is controlled by hydraulic power with sensitive and reliable performances. By the manipulation of a push button, spindle speed change can be made to a higher or lower step without stopping the machine. Lubrication in the headstock is effected by forced pressure oil while spindle speed ranges are furnished for selection by user when placing order.

CW61160B

The apron is provided with a safety device to protect the machine against overloading. The top slide may be operated by power for cutting short taper surface. The combination of longitudinal feed of the saddle and feed of the slide facilitates the cutting of a long taper surface on this machine.

all guideways on the bed are casehardened to prolong their service life.

The centralized level can be easily and conveniently operated.



Standard Equipment

- 4 jaw chuck
- Follow rest
- Rolling steady rest
- Center and Sleever
- Flood coolant system
- Machine work light

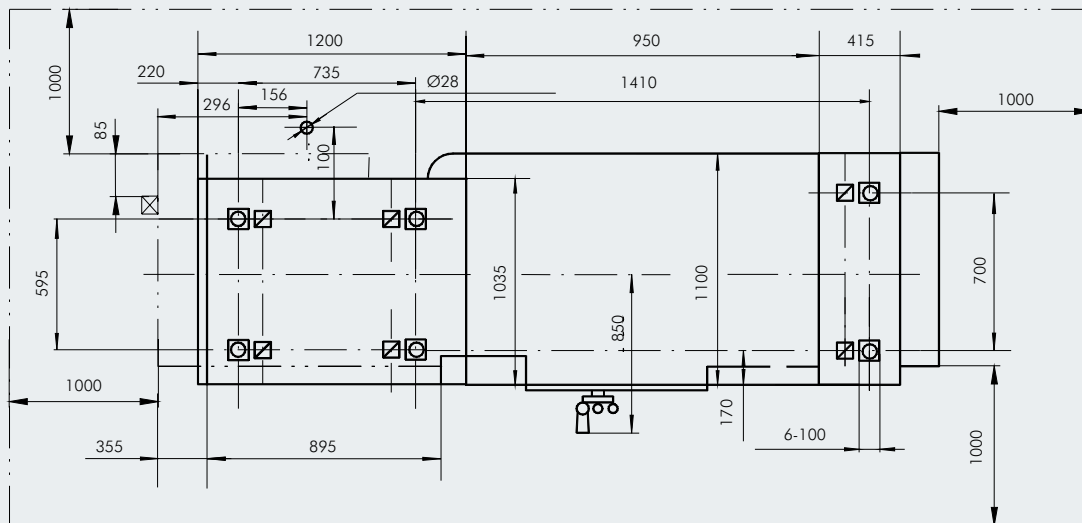
Optional Equipment

- Face plate
- 3 & 4 jaw chucks
- Roller support
- Adjustable pads

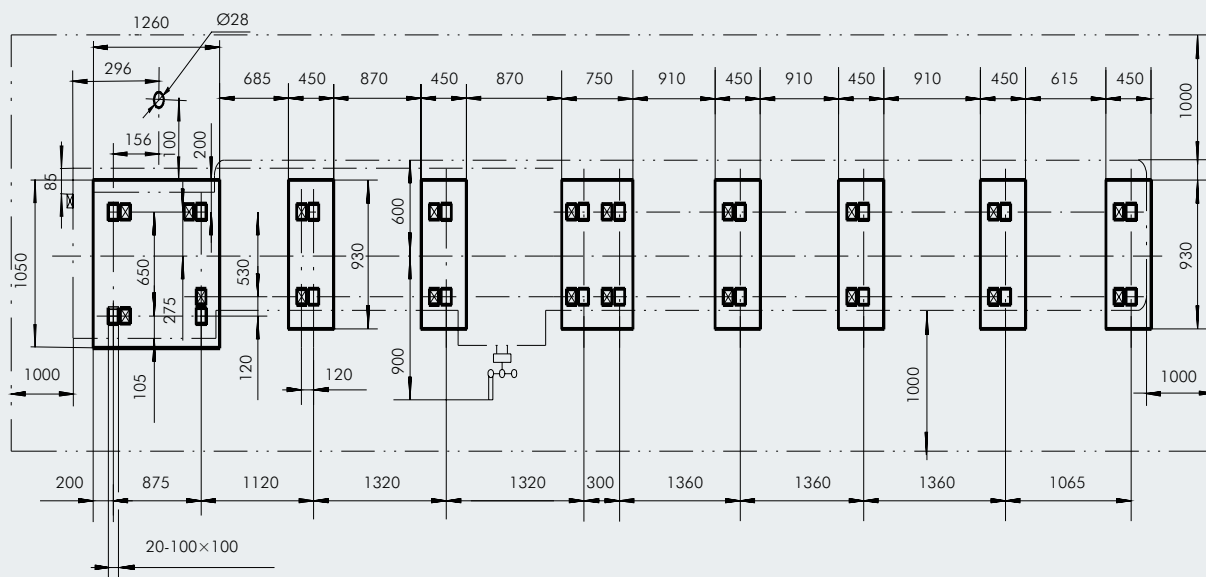
Main Technical Specifications

Foundation Layout

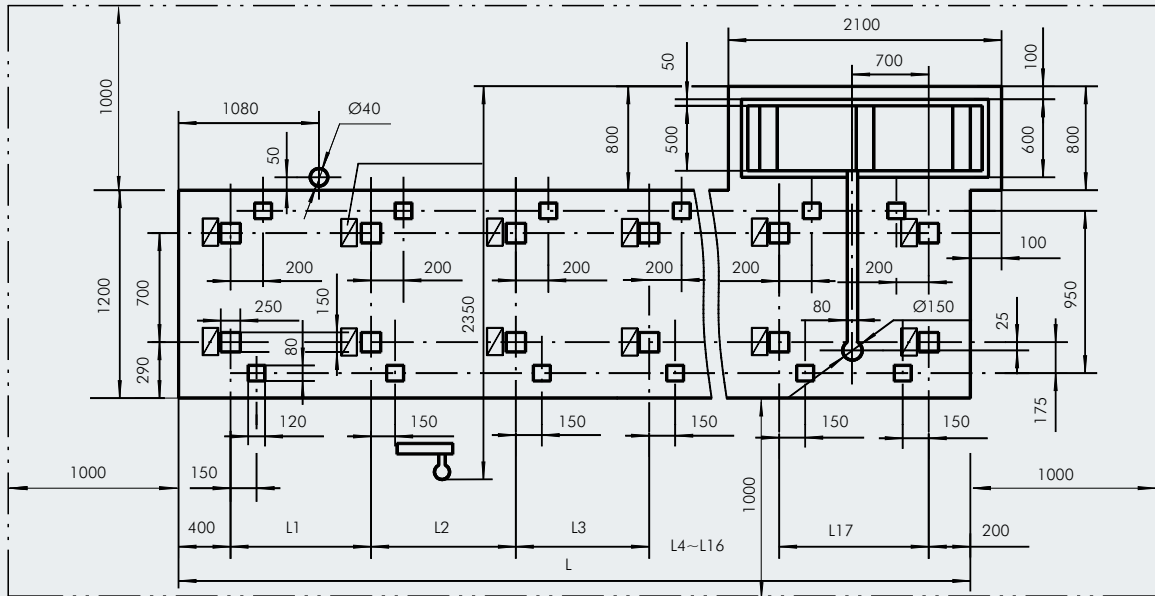
CW6163/6193 series



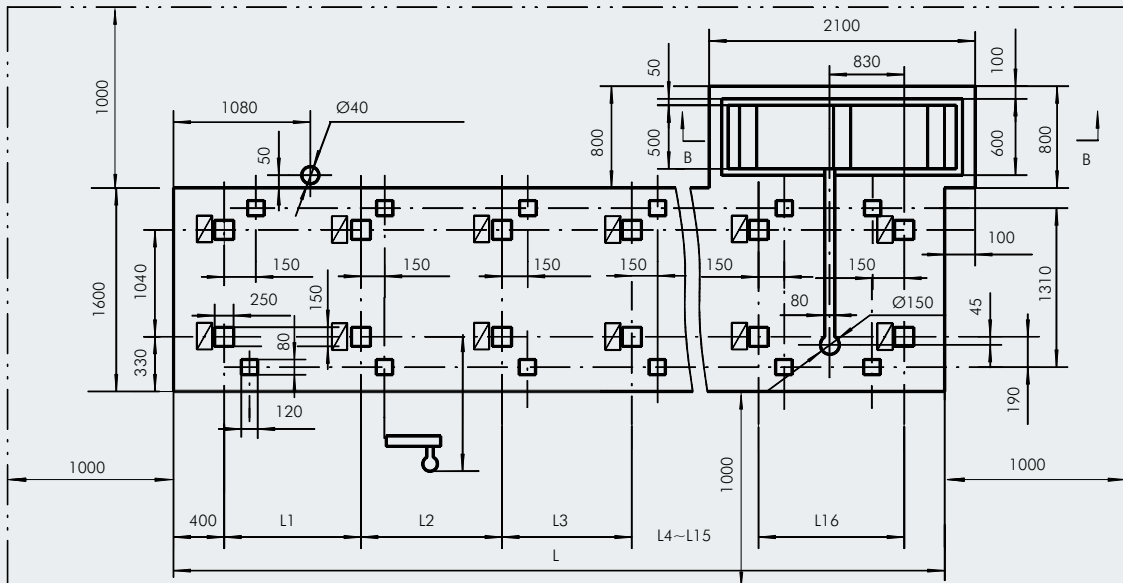
CW6280 series



CW61100 series



CW62200 series



Main Technical Specifications

Item	Units	CW6263B/C CW6163B/C	CW6280B/C CW6180B/C	CW6293B/C CW6193B/C
Max. swing diameter over bed	mm	630	800	930
max. swing diameter over carriage	mm	350	480	650
max. workpiece length	mm	750, 1500, 2000, 3000-15000	1500, 3000, 4000, 3000-15000	1500, 2000, 3000-15000
max.swing diameter and width in gap	mm	800/300	1000/310	1100/300
Spindle bore and nose		Ø104mm; D11(B series) Ø130;D11(C series)		
Taper in spindle nose and center		Ø120mm (B series) Ø140mm (C series); Mores 5		
Steps of spindle speeds		18 kinds	18 kinds	18 kinds
range of spindle speeds	r/min	7.5-1000(B series) 8.5-800 (C series)	5.4-720	6-800(B series) 8.8-800(C series)
Steps of longitudinal feeds		64kinds	64kinds	64kinds
range of longitudinal feeds	mm/r	0.05-24.3	0.06-24.3	0.05-24.3
Longitudinal and cross feed rate		1/2	1/2	1/2
Pitch of leadscrew		12mm	12mm	12mm
Number, range of Metric thread	mm	50 kinds 1-240	50 kinds 1-240	50 kinds 1-240
Number, range of whitworth thread	t.p.i	26 kinds; 14-1	26 kinds; 14-1	26 kinds; 14-1
Number, range of Module thread	mm	53 kinds; 0.5-120	53 kinds; 0.5-120	53 kinds; 0.5-120
Mumber, rage of diametral thread	DP	24 kinds; 28-1	24 kinds; 28-1	24 kinds; 28-1
Max. cross travel of lower slide	mm	315	500	500
Max. travel of top slide	mm	200	200	200
Max. travel of quill of tailstock	mm	250	250	250
Taper of quill of tailstock		Morse No. 5	Morse No. 5	Morse No. 5
Power of main motor	kW	11	11 or 15	11
Width of bed guideways	mm	550	600	550
Hardness of bed guideways		RC52	RC52	RC52
Max. weight of workpiece	kg	2000	2000	2000
Diameter of tails stock quill		100	100	100

CW61110B/C	CW61125B	CW61160	CW61200
1100	1250	1600	2000
800	610/865	1200	1580
1500, 3000, 4000, 3000-15000	1500, 3000, 5000-15000	3000, 5000, 6000-1500	3000, 5000, 6000-1500
1300/310			
Ø104mm; D11 / Ø130: D11(C series)	Ø130	Ø130	Ø130
Ø120; Mores No. 5 / Ø140 (C series)	Ø140	Ø140	Ø140
18 kinds	21 kinds	21 kinds	21 kinds
5.4-720	2-200(50Hz)/3.15-315(60Hz)	2-200(50Hz)/3.15-315(60Hz)	2-200(50Hz)/3.15-315(60Hz)
64kinds	56kinds	56kinds	56kinds
0.05-24.3	0.1-12	0.1-12	0.1-12
1/2	1/2	1/2	1/2
12mm	12	12	12
50 kinds 1-240	44 kinds; 1120	44 kinds; 1120	44 kinds; 1120
26 kinds; 14-1	31kinds; 24-1/4	31kinds; 24-1/4	31kinds; 24-1/4
53 kinds; 0.5-120	45 kinds; 0.5-60	45 kinds; 0.5-60	45 kinds; 0.5-60
24 kinds; 28-1	38 kinds; 1/2-56	38 kinds; 1/2-56	38 kinds; 1/2-56
500	520	960	1010
200	300	200	200
250	300	300	300
Morse No. 5	Morse No. 6	80 (metric)	80 (metric)
11 or 15	22	22	22
600	755	1100	1100
RC52	RC52	RC52	RC52
2000	6000	8000	8000
100	160	180	180