

Technical parameter

Item		Unit	CA 6140B/A	CA 6240B/A	CA 6150B/A	CA 6250B/A
Max. swing diameter over bed		mm	Φ400		Φ500	
Max. swing diameter over cross slide		mm	Φ210		Φ300	
Max. swing over saddle x Effective length		mm	-	Φ630×210	-	Φ720×210
Max. length between centers/Max. turning length		mm	1000/900; 1500/1400; 2000/1900			
Bed width、hardness		mm	400, Rc52		400, Rc52	
Tool post section size		mm	25×25		25×25	
Spindle		-				
Spindle speed range (Steps)	Forward	r/min	10-1400 (24)		10-1400 (24)	
	Reverse	r/min	14-1580 (12)		14-1580 (12)	
Spindle bore and nose type		mm	Φ80 A28		Φ80 A28	
The taper of the front spindle bore		-	Φ90mm (1:20)		Φ90mm (1:20)	
Feed						
Longitudinal feed per revolution (64 kinds)	Standard	mm/r	0.11-1.6		0.11-1.6	
	Fine feed	mm/r	0.028-0.11		0.028-0.11	
	Heavy feed	mm/r	1.76-6.4		1.76-6.4	
Cross feed per revolution (64 kinds)	Standard	mm/r	0.05-0.8		0.05-0.8	
	Fine feed	mm/r	0.014-0.05		0.014-0.05	
	Heavy feed	mm/r	0.88-3.2		0.88-3.2	
Tool post						
Cross travel of toolpost		mm	320		320	
Travel of upper toolpost		mm	140		140	
Swivel angle of toolpost		°	±90		±90	
Rapid traverse speed of toolpost	Longitudinal	m/min	4		4	
	Cross	m/min	2		2	
Tailstock						
Max. travel of tailstock spindle		mm	150		150	
Diameter of tailstock spindle		mm	Φ75		Φ75	
Taper of tailstock spindle		-	Morse #5		Morse #5	
Range of threads						
Metric threads (Kinds)		mm	1-192 (44)		1-192 (44)	
Inch threads (Kinds)		t.p.i	1/2-24 (28)		1/2-24 (28)	
Metric module threads (Kinds)		mm	0.25-48 (39)		0.25-48 (39)	
Diametral pitch threads (Kinds)		D.P	1/2-96 (38)		1/2-96 (38)	
Main motor power		kW	7.5		7.5	
Net weight						
1000mm		kg	2070		2140	
1500mm		kg	2220		2290	
2000mm		kg	2570		2640	
Overall dimension (LxWxH)						
1000mm		mm	2668×1000×1270		2668×1037×1315	
1500mm		mm	3168×1000×1270		3168×1037×1315	
2000mm		mm	3668×1000×1270		3668×1037×1315	

Note: The parameters provided in the table are for reference only. Please refer to the actual equipment for any changes.

Technical parameter

Item		Unit	CA 6140A	CA 6240A	CA 6150A	CA 6250A
Max. swing diameter over bed		mm	Φ400		Φ500	
Max. swing diameter over cross slide		mm	Φ210		Φ300	
Max. swing over saddle x Effective length		mm	-	Φ630×210	-	Φ720×210
Max. length between centers/Max. turning length		mm	750/650 (仅 CA6140A); 1000/900; 1500/1400 ; 2000/1900			
Bed width、hardness		mm	400, Rc52		400, Rc52	
Tool post section size		mm	25×25		25×25	
Spindle		-				
Spindle speed range (Steps)	Forward	r/min	11-1600 (24)		11-1600 (24)	
	Reverse	r/min	14-1580 (12)		14-1580 (12)	
Spindle bore and nose type		mm	Φ52 A6		Φ52 A6	
The taper of the front spindle bore		-	Morse #6		Morse #6	
Feed						
Cross feed per revolution (64 kinds)	Standard	mm/r	0.08-1.59		0.08-1.59	
	Fine feed	mm/r	0.028-0.054		0.028-0.054	
	Heavy feed	mm/r	1.71-6.33		1.71-6.33	
Longitudinal feed per revolution (64 kinds)	Standard	mm/r	0.04-0.79		0.04-0.79	
	Fine feed	mm/r	0.014-0.027		0.014-0.027	
	Heavy feed	mm/r	0.86-3.16		0.86-3.16	
Tool post						
Cross travel of toolpost		mm	320		320	
Travel of upper toolpost		mm	140		140	
Swivel angle of toolpost		°	±90		±90	
Rapid traverse speed of toolpost	Longitudinal	m/min	4		4	
	Cross	m/min	2		2	
Tailstock						
Max. travel of tailstock spindle		mm	150		150	
Diameter of tailstock spindle		mm	Φ75		Φ75	
Taper of tailstock spindle		-	Morse #5		Morse #5	
Range of threads						
Metric threads (Kinds)		mm	1-192 (44)		1-192 (44)	
Inch threads (Kinds)		t.p.i	2-24 (21)		2-24 (21)	
Metric module threads (Kinds)		mm	0.25-48 (39)		0.25-48 (39)	
Diametral pitch threads (Kinds)		D.P	1-96 (37)		1-96 (37)	
Main motor power		KW	7.5		7.5	
Net weight						
750mm		kg	1990		-	
1000mm		kg	2070		2140	
1500mm		kg	2220		2290	
2000mm		kg	2570		2640	
Overall dimension (LxWxH)						
750mm		mm	2418×1000×1267		-	
1000mm		mm	2668×1000×1267		2668×1037×1312	
1500mm		mm	3168×1000×1267		3168×1037×1312	
2000mm		mm	3668×1000×1267		3668×1037×1312	

Note: The parameters provided in the table are for reference only. Please refer to the actual equipment for any changes.

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CA Series Conventional lathe

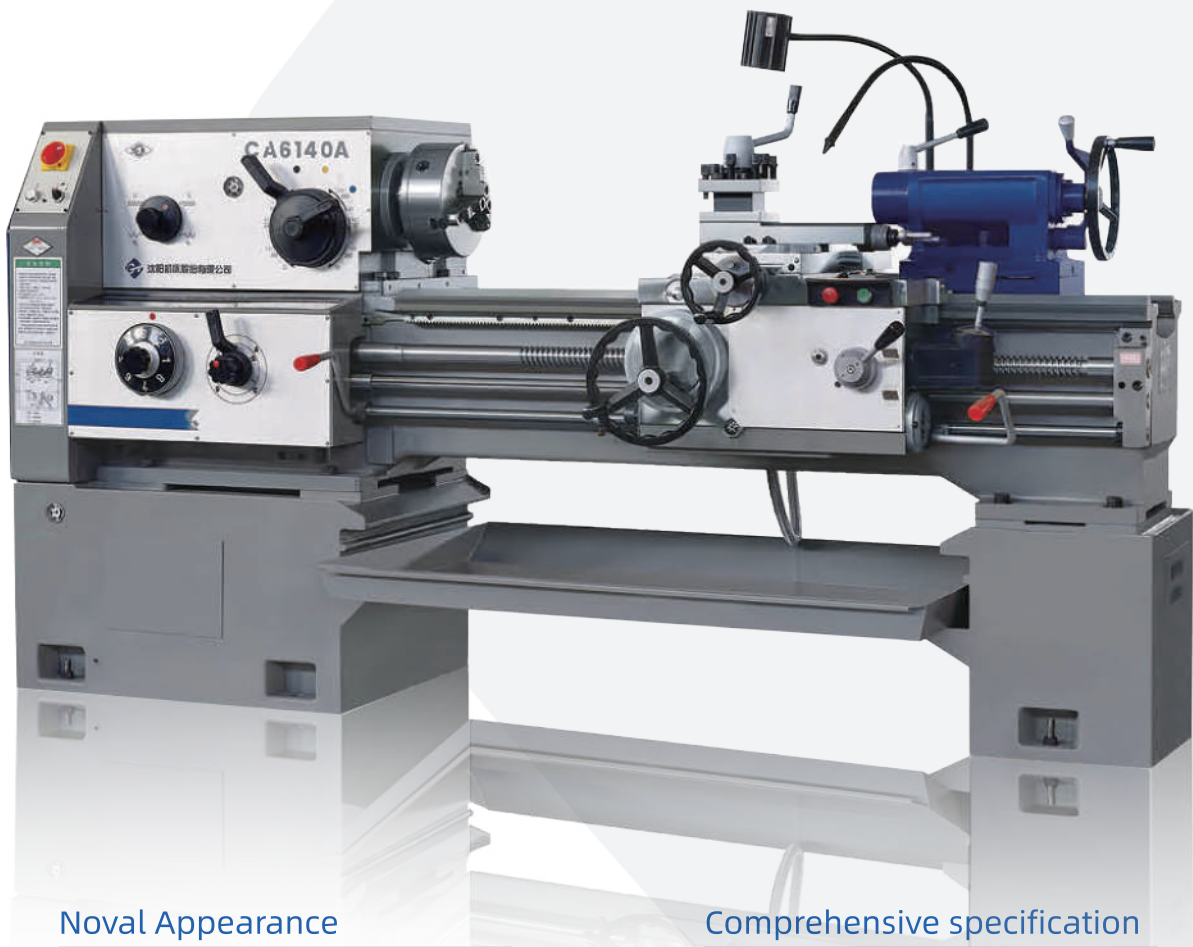


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The explanation, diagram and technical parameters are varying with continuous technology development without further notice.
凡图样标注、说明书标注、图样及技术参数均随技术发展而变更，未经注明，恕不另行通知。

CA Series

High rigidity、high efficiency、stable and reliable



Noval Appearance

The machine tool's appearance design integrates ergonomic principles into a mature machine structure, enhancing the feel of operation. The main sheet metal parts feature eye-catching blue and gray pressed components, resulting in an aesthetically pleasing overall effect.

Complete Functionality

The CA series lathes can handle various materials for face turning, internal and external cylindrical surfaces, and other rotary surface machining. They are also capable of precisely machining metric, inch, module, and diametral pitch threads. Additionally, they can easily perform tasks such as drilling, reaming, and oil groove cutting.

Comprehensive specification

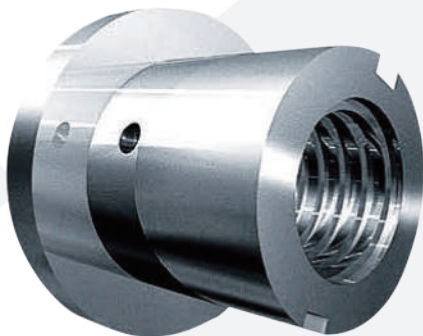
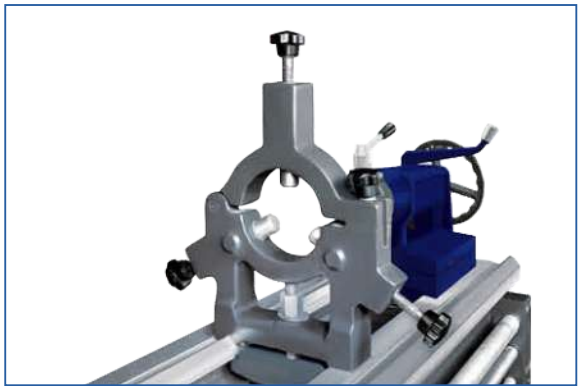
Comprehensive Specifications of CA Series Products.The CA series offers a wide range of products, including straight-bed lathes, saddle-bed lathes, and large-bore lathes.

Outstanding Performance

The standard CA series lathes are equipped with large-diameter front bearings on the spindle and have a wider bed span compared to similar products, achieving higher structural rigidity and elevating product performance to new level.



Images of actual
workpiece processed:
Workpiece example: Nut
Material: 45# Steel



Machine configuration

Item	No.	Unit	A-type 6140	A-type 6240	A-type 6150	A-type 6250	B/A-type 6140	B/A-type 6240	B/A-type 6150	B/A-type 6250
3-jaw chuck										
Φ250K11250C/A16	1	Set	◆	◆	◆	◆				
Φ250K11250C/A28	1	Set					◆	◆	◆	◆
4-jaw chuck										
Φ400K72400C/A26	1	Set		◇		◇				
Φ400K72400C/A28	1	Set						◇		◇
Facing plate										
Φ600	1	Set		◇		◇		◇		◇
Steady rest										
Φ20-Φ125	1	Set	◇	◇	◇	◇	◇	◇	◇	◇
Φ100-Φ205	1	Set	◇	◇			◇	◇		
Φ125-Φ250	1	Set			◇	◇			◇	◇
Follow rest										
Φ20-Φ80	1	Set	◇	◇	◇	◇	◇	◇	◇	◇
Center										
5 S25-2	1	Set	◆	◆	◆	◆	◆	◆	◆	◆
Center sleeve										
6/5 S25-10	1	Set	◆	◆	◆	◆				
0011230L	1	Set					◆	◆	◆	◆
Center sleeve										
-	1	Set	◇	◇	◇	◇	◇	◇	◇	◇
Live center										
-	1	Set	◇	◇	◇	◇	◇	◇	◇	◇

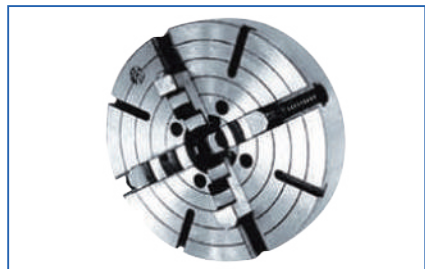
Note: ◆ Standard configuration ◇ Optional configuration, Blank spaces indicate no such configuration is available. For special configurations, please contact us.



Facing plate



3-jaw chuck



4-jaw chuck

CAK Series CNC Lathe

Service line

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CAK Series

CNC Lathe

Introduction

New CAK series continues features and construction from last generation, improved precision, anti-vibration, functions and stability, new looking design has a better water proof.

CAK series CNC lathe is a China famous brand, we are always besides you!



Features

A Nice Appearance

Fluent and easy clean

B Powerful heart

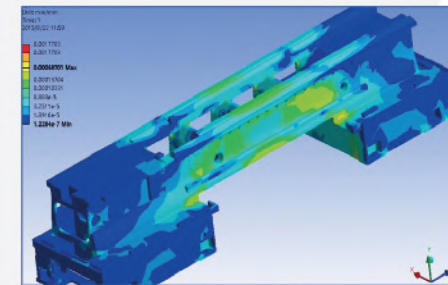
Effective and stable

C Strong body

Heavy and strong

D Smart brain

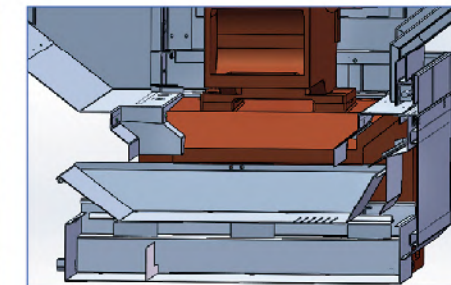
Customized controller



High rigidity



Dynamic balance



Strong water proof



Length-diameter ratio



Big torque



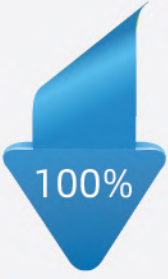
High efficiency



Controller

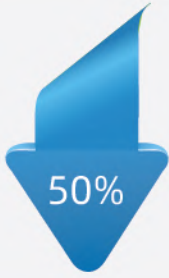
Product advantages

No travel switch on two axis, low fault;
T-groove reinforce structure of tailstock, increase stability;
Super large water tank, enhancing the waterproof ability of the whole machine.



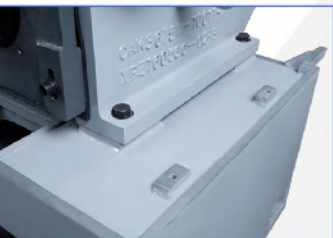
Surface quality improved

Absolute encoder reduced fault



Shorter accelerate and decelerate time

Parameter change visual fault diagnosis



Super waterproof groove



T-groove tailstock fixing



Parameter

Item	Unit	CAK3665	CAK4065	CAK4085		CAK4085P
Max.parts length	mm	750	750	1000	1000	920
Max cutting length	mm	650	650	850	850	770
Max swing diameter over bed	mm	Φ400	Φ400	Φ400	Φ400	Φ320
Max.swing diameter over slide	mm	Φ180	Φ200	Φ200	Φ200	Φ200
Max cutting diameter	mm	Φ360	Φ400	Φ400	Φ400	Φ320
Spindle nose type		A2-6	A1-6	A1-6	A1-6	A1-6
Chuck diameter	mm	Φ200	Φ250	Φ250	Φ250	Φ250
Spindle bore	mm	Φ53	Φ53	Φ53	Φ53	Φ53
Single spindle speed range	r/min	100-3000	100-2400	100-2400		100-2400
Spindle speed range (manual stepless)	r/min				100-2000	
Rated power of main motor	kw	7.5 (Main servo motor)	7.5 (Main servo motor)	7.5 (Main servo motor)	7.5 (Main servo motor)	7.5 (Main servo motor)
Tailstock quill diameter	mm	Φ60	Φ60	Φ60	Φ60	Φ60
Tailstock quill travel	mm	140	140	140	140	140
Turret type		Vertical 4 positions	Horizontal 6 positions	Vertical 4 positions	Vertical 4 positions	Horizontal 6 positions
Tool shank size	mm	□20×20	□20×20	□20×20	□20×20	□20×20
X/Z axis rapid traverse	m/min	6/12	6/12	6/12	6/12	6/12
Machining accuracy		IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7
Machine net weight	kg	1860	1860	1960	1960	1960
Overall dimension (LxWxH)	mm	2350×1500×1580	2350×1500×1580	2470×1500×1580	2470×1500×1580	2470×1500×1580

Samples



Auto shaft

Automobile industry

Material:45# steel
Machining time:7 mins



Bearing ring

Bearing industry

Material: Bearing steel
Machining time:5 mins



Flange

Engineering industry

Material:Gray casting iron
Machining time:4mins



Gear shaft

Gear industry

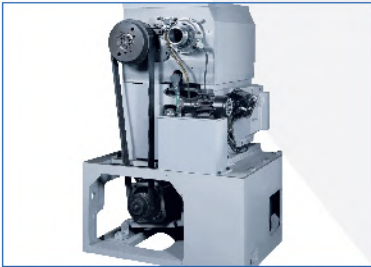
Material:Alloy steel
Machining time:9 mins

Product advantages

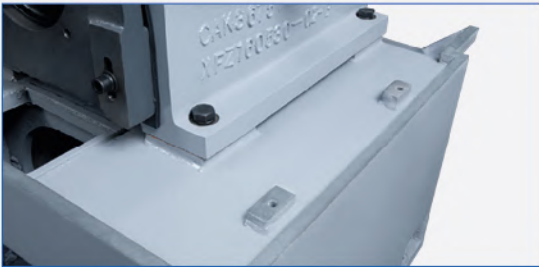
Unique patent automatic shift headstock structure Independent oil tank, easy maintain, T-grooved tail stock structure improve stability Super waterproof groove structure increase waterproof ability



Absolutely encoder reduce fault Independent oil tank, easy maintain reduce 30% heat



Independent oil tank



Super waterproof groove



Parameter

Item	Unit	CAK50					CAK61/66
Specification		85L	85P	85	135	186	85
Max.parts length	mm	900	890	890	1390	1900	890
Max cutting length	mm	850	770	850	1350	1860	850
Max swing diameter over bed	mm	Φ500	Φ500	Φ500	Φ500	Φ500	Φ610/Φ660
Max.swing diameter over slide	mm	Φ280	Φ300	Φ300	Φ300	Φ300	Φ370/Φ420
Max cutting diameter	mm	Φ500	Φ400	Φ500	Φ500	Φ500	Φ610/Φ660
Spindle nose type		A2-8	A2-8	A2-8	A2-8	A2-8	A2-8
Chuck diameter	mm	Φ250	Φ250	Φ250	Φ250	Φ250	Φ250
Spindle bore	mm	Φ53	Φ80	Φ78	Φ78	Φ78	Φ78
Spindle speed range (Auto 3 step)	r/min			15-2200	15-2200	15-2200	15-2200
Spindle speed range (manual stepless)	r/min	100-1800		22-1800	22-1800	22-1800	22-1800
Spindle speed range (Auto 3 step, 12 grades)	r/min			40-1800	40-1800	40-1800	
Spindle speed range (Single spindle)	r/min		30-2500				
Rated power of main motor	kw	7.5 (frequency conversion)	11 (Main servo motor)	7.5 (Main servo motor)	7.5 (Main servo motor)	7.5 (Main servo motor)	7.5 (Main servo motor)
Rated power of main motor(S series)	kw			6.5/8 (Dual-speed)	6.5/8 (Dual-speed)	6.5/8 (Dual-speed)	
Tailstock quill diameter	mm	Φ75	Φ75	Φ75	Φ75	Φ75	Φ75
Tailstock quill travel	mm	150	150	150	150	150	150
Turret type		Vertical 4 positions	Horizontal 6 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions
Tool shank size	mm	□25×25	□25×25	□25×25	□25×25	□25×25	□25×25
X/Z axis rapid traverse	m/min	6/12	6/12	6/12	6/12	6/12	6/12
Machining accuracy		IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7
Machine net weight	kg	2200	2800	2800	3000	3400	2950/3000
Overall dimension (LxWxH)	mm	2470×1500×1580	2770×1700×1735	2770×1700×1735	3270×1700×1735	3870×1700×1735	2770×1700×1735 2770×1855×1735

Samples



Valve
Valve industry
Material: Cast iron
Machining time:9 mins



Direction wheel
Textile industry
Material: Casting
Machining time:6 mins



Motor shaft
Motor industry
Material:45# steel
Machining time:12 mins



Brake disk
Automobile industry
Material: Casting
Machining time:7 mins

Product advantages

Unique patent hydraulic shift headstock structure;
External hanging main servo motor, save space, easy maintenance;
T-grooved tail stock structure improve stability;
Super waterproof groove structure increase waterproofability.



Guideway span 600mm
Swallow tails span360mm

Rapid speed improve

Main motor on the back easy to adjust



Accelerate decelerate time lower

X axis leadscrew Φ40mm

Max Φ700 diameter over slide

Two axis transmission mechanism improve accuracy



3 steps filter chip box
low beak down rate



Parameter

Item	Unit	CAK63				CAK80				CAK100			
Specification		85	135	200	285	85	135/135S	200	285	85	135	200	285
Max.parts length	mm	1000	1500	2150	3000	1000	1500	2150	3000	1000	1500	2150	3000
Max cutting length	mm	850	1350	2000	2850	850	1350	2000	2850	850	1350	2000	2850
Max swing diameter over bed	mm	Φ630	Φ630	Φ630	Φ630	Φ800	Φ800	Φ800	Φ800	Φ1000	Φ1000	Φ1000	Φ1000
Max.swing diameter over slide	mm	Φ350	Φ350	Φ350	Φ350	Φ520	Φ520	Φ520	Φ520	Φ700	Φ700	Φ700	Φ700
Max cutting diameter	mm	Φ630	Φ630	Φ630	Φ630	Φ800	Φ800	Φ800	Φ800	Φ1000	Φ1000	Φ1000	Φ1000
Spindle nose type		A2-11	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11
Chuck diameter	mm	Φ315	Φ315	Φ315	Φ315	Φ315	Φ315/Φ400	Φ315	Φ315	Φ500	Φ500	Φ500	Φ500
Spindle bore	mm	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104/Φ130	Φ104	Φ104	Φ104	Φ104	Φ104	Φ104
Spindle speed range (Hydraulic 4-shift stepless)	r/min	17-1000	17-1000	17-1000	17-1000	17-1000	17-1000/800	17-1000	17-1000	17-1000	17-1000	17-1000	17-1000
Rated power of main motor	kw	11 (Main servo motor)	11 (Main servo motor)	11 (Main servo motor)	11 (Main servo motor)	15 (Main servo motor)	15 (Main servo motor)	15 (Main servo motor)	15 (Main servo motor)	15 (Main servo motor)	15 (Main servo motor)	15 (Main servo motor)	15 (Main servo motor)
Tailstock quill diameter	mm	Φ125	Φ125	Φ125	Φ125	Φ125	Φ125/Φ160	Φ125	Φ125	Φ125	Φ125	Φ125	Φ125
Tailstock quill travel	mm	250	250	250	250	250	250	250	250	250	250	250	250
Turret type		Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions	Vertical 4 positions
Tool shank size	mm	□32×32	□32×32	□32×32	□32×32	□32×32	□32×32 □40×40	□32×32	□32×32	□40×40	□40×40	□40×40	□40×40
X/Z axis rapid traverse	m/min	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
Machining accuracy		IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7	IT6~IT7
Machine net weight	kg	5200	5550	5950	6950	5400	5750/6000	6150	7150	5800	6150	6750	7500
Overall dimension (LxWxH)	mm	3410×2010 x1780	3860×2010 x1780	4510×2010 x1780	5360×2010 x1780	3410×2010 x1780	3860×2010 x1780	4510×2010 x1780	5360×2010 x1780	3410×2250 x1930	3860×2250 x1930	4510×2250 x1930	5360×2250 x1930

Samples



Valve

Valve industry

Material: Casting
Machining time:14 mins



Thrust wheel

Engineering industry

Material: Manganese steel
Machining time:19 mins



Train shaft

Rail transit industry

Material: LZW50 steel
Machining time:25 mins



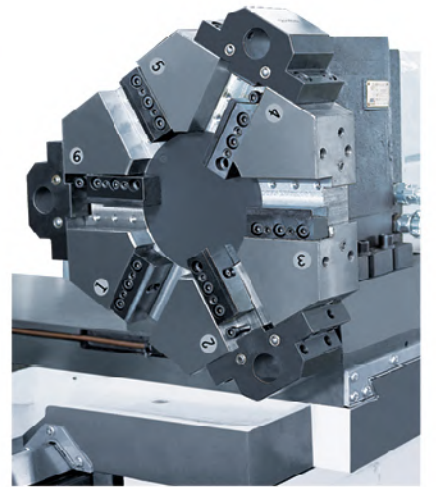
Motor shaft

Motor industry

Material:45# steel
Machining time:27 mins

Item	Specification	CAK36	CAK40		CAK50								CAK63				CAK80				CAK100					
		65	65	85	85P	85L	85P	85	85s	135	135s	186	186s	85	135	200	285	85	135	135S	200	285	85	135	200	285
Control system	FANUC Oi-TF plus system	◇	◇	◇	◇	◇	◇	◇		◇		◇		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	GSK 980YA3 system								◆		◆		◆													
	GSK 980TDi system	◆	◆	◆	◆	◆	◆	◆		◆		◆														
	GSK 988TA system													◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
	Siemens 808AD system	◇	◇	◇	◇	◇	◇	◇		◇		◇														
	Siemens 828D system	◇	◇	◇	◇	◇	◇	◇		◇		◇		◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
	HNC808Di system	◇	◇	◇	◇	◇	◇	◇		◇		◇														
Protection cover	Semi							◇	◇	◇	◆	◆				◆	◆				◆	◆			◆	◆
	Full	◆	◆	◆	◆	◆	◆	◆	◆	◆	◇	◇	◆	◆				◆	◆	◆				◆	◆	
Tailstock	Manual	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Hydraulic	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
	Thinken quill tailstock													◇	◇	◇	◇	◇	◇	◆	◇	◇	◇	◇	◇	◇
3-jaw manual chuck	Φ200	◆	◇	◇	◇																					
	Φ250	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆														
	Φ315					◇	◇	◇	◇	◇	◇	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◇	◇	◇	◇
	Φ400													◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	
	Φ500													◇	◇	◇	◇	◇	◇	◇	◇	◇	◆	◆	◆	◆
	Φ800																	◇	◇	◇	◇	◇	◇	◇	◇	◇
	Φ200	◇	◇	◇	◇																					
4-jaw manual chuck	Φ250	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇														
	Φ320					◇	◇	◇	◇	◇	◇	◇														
	Φ400													◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
	Φ500													◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
	Φ800																	◇	◇	◇	◇	◇	◇	◇	◇	◇
Hydraulic chuck	8 " Solid/Hollow	◇	◇	◇	◇																					
	10 " Solid/Hollow	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇														
	12 " Solid/Hollow						◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
	15 " Solid/Hollow													◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
Turret	Vertical 4-position	◆	◆	◆	◇	◆	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆170A	◆	◆	◆	◆	◆	◆
	Horizontal 6-position	◇	◇	◇	◆	◇	◆	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
Steady rest	Gang tool	◇	◇	◇		◇		◇	◇	◇	◇	◇														
	Φ30 ~ Φ80mm(Roller type)	◇	◇	◇	◇																					
	Φ20 ~ Φ125mm(Roller type)						◇	◇	◇	◇	◆	◆														
	Φ120 ~ Φ190mm(Roller type)						◇	◇	◇	◇	◇	◇														
	Φ140 ~ Φ210mm(Roller type)						◇	◇	◇	◇	◇	◇														
	Φ160 ~ Φ350mm(Roller type)												◇	◇	◆	◆	◇	◇	◇	◆	◆					
	Φ20 ~ Φ170mm(Roller type)												◇	◇	◇	◇	◇	◇	◇	◇	◇					
	Φ50 ~ Φ400mm(Roller type)																					◇	◇	◆	◆	
Follow rest (not for horizontal turret)	Φ30 ~ Φ80mm	◇	◇	◇	◇																					
	Φ20 ~ Φ90mm						◇	◇	◇	◇	◆	◆														
	Φ20 ~ Φ110mm												◇	◇	◆	◆	◇	◇	◇	◆	◆	◇	◇	◆	◆	
Boring tool holder	Φ60/Φ80/Φ100/Φ120												◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	
Spindle	Single spindle	◆	◆	◆	◆		◆	◇		◇		◇														
	Manual shift			◆		◆Stepless		◇Stepless	◆	◇Stepless	◆	◇Stepless	◆													
	Auto shift							◆		◆		◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chip box		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chip conveyor	Rear chip conveyor	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
Safety lock		◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇

◆ Standard ◇ Optional



CW Series

Conventional lathe

Service line
400-615-9999



No.1, 17-A, Kaifa Avenue, Shenyang Economic & Technological
Development Zone, Shenyang, China
Service line: 400-615-9999
Scan Q code to follow official Wechat

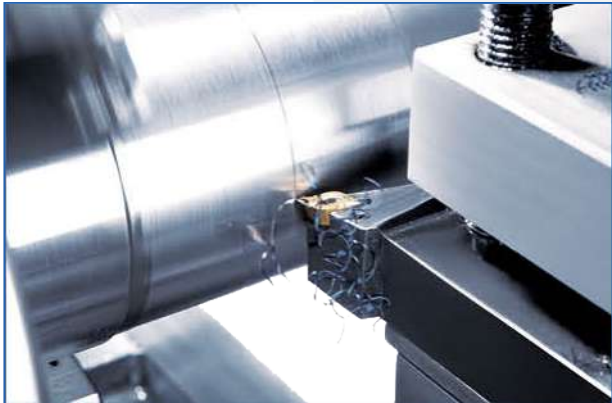
www.smtcl.com

The explanation, diagram and technical parameter are varying with continuous technology development without further notice.
凡说明书、图样及技术参数均随技术发展随时更改，恕不另行通知。(20250101-0010)



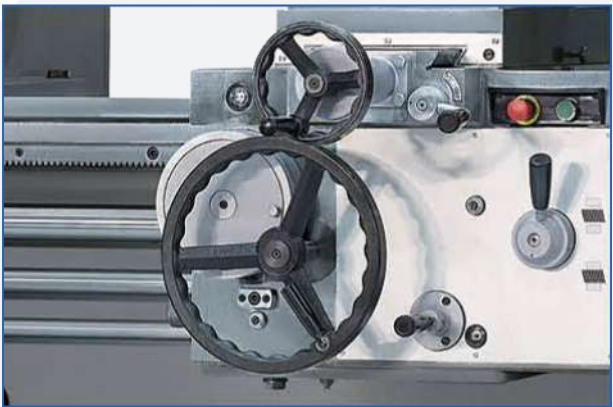
Noval Appearance

The machine tool's appearance has been fully upgraded, integrating ergonomic design with a mature machine structure. The use of new materials enhances the product quality.



Powerful cutting

CW6180B as a base model features guide way that are 600mm, uses an integrated floor-mounted bed with a stable inclined rib structure. This ensures the high rigidity characteristics required for this specification of machine. Equipped with an 11kw high-torque motor and an optimized reduced-speed headstock, it achieves powerful cutting.



User-friendly operation

The ergonomic handles, handwheels, and other controls are simple to use and provide a good feel, aligning with the operator's usage habits. The colors are nice, and the layout is logical, effectively reducing the chance of operational errors.

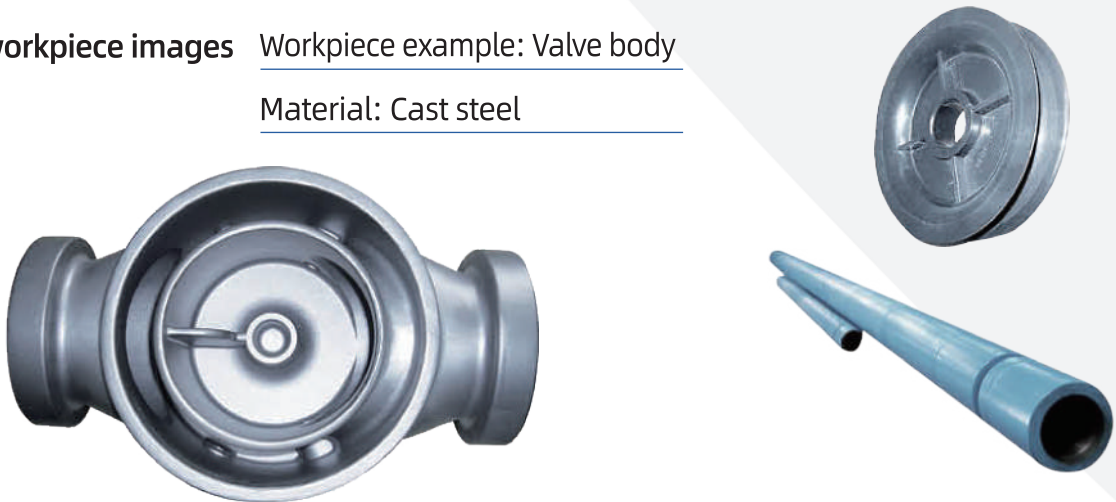


Stable performance

Advanced manufacturing equipment is used in the production of the machine tools. The production process strictly adheres to standardized operations and ISO 9000 quality control system, stable and reliable performance.

Actual workpiece images Workpiece example: Valve body

Material: Cast steel



Technical parameter

Item	Unit	CW 6163B CW 6263B	CW 6180B CW 6280B	CW 6193B CW 6293B	CW 6110B CW 6210B	
Max. swing diameter over bed	mm	Φ630	800	Φ930	Φ1100	
Max. swing diameter over cross slide	mm	Φ350	Φ480	Φ650	Φ800	
Max. length of workpiece	mm	1000,1500,2000,3000 4000,5000,6000,7000	1500,3000 4000,5000,6000,8000	1000,1500,2000,3000 4000,5000,6000	1500,3000 4000,5000,6000	
Max. swing diameter over gap/width	mm	Φ800/300	Φ1000/310	Φ1100/300	Φ1300/310	
Spindle bore diameter and taper type	-	Φ104、D11	Φ104、D11	Φ104、D11	Φ104、D11	
Front cone of spindle hole & Taper	-	120、1:20, Morse #5	120、1:20, Morse #5	120、1:20, Morse #5	120、1:20, Morse #5	
Number of spindle speed steps and range	r/min	18 Kinds 7.5-1000	18 Kinds 5.4-720	18 Kinds 6-800	18 Kinds 4.8-800	
Longitudinal feed rates and ranges	mm/r	64 Kinds 0.05-24.3	64 Kinds 0.06-24.3	64 Kinds 0.05-24.3	64 Kinds 0.05-24.3	
Range: 1:1	mm/r	0.1-1.52	0.1-1.52	0.1-1.52	0.1-1.52	
Range: 16:1	mm/r	1.6-24.3	1.6-24.3	1.6-24.3	1.6-24.3	
Fine feed range using exchange gears	mm/r	0.05-0.912	0.065-0.912	0.05-0.912	0.05-0.76	
Ratio of cross feed to longitudinal feed	-	1/2	1/2	1/2	1/2	
Rapid traverse speed of saddle	mm/min	4000	4000	4000	4000	
Pitch of leadscrew	-	12(Metric); 1/2" (Inch)	12(Metric); 1/2" (Inch)	12(Metric); 1/2" (Inch)	12(Metric); 1/2" (Inch)	
Number of Metric threads and range	mm	50 Kinds 1-240	50 Kinds 1-240	50 Kinds 1-240	50 Kinds 1-240	
Number of Inch threads and range	t.p.i	26 Kinds 14-1	26 Kinds 14-1	26 Kinds 14-1	26 Kinds 14-1	
Number of Module threads and range	mm	53 Kinds 0.5-120	53 Kinds 0.5-120	53 Kinds 0.5-120	53 Kinds 0.5-120	
Number of Diametral pitch threads and range	DP	24 Kinds 28-1	24 Kinds 28-1	24 Kinds 28-1	24 Kinds 28-1	
Max. cross travel of lower toolpost	mm	420	500	500	500	
Max. travel of upper toolpost	mm	200	200	200	200	
Travel of tailstock sleeve	mm	250	250	250	250	
Taper of tailstock sleeve	-	Morse #5	Morse #5	Morse #5	Morse #5	
Bed width and hardness	mm	550 RC52	600 RC52	550 RC52	600 RC52	
Main motor power	kW	11	11or15	11	11or15	
Rapid motor power	kW	1.1	1.1	1.1	1.1	
Coolant pump motor power	W	120	180	120	180	
Machine net weight and dimensions	1000	kg/mm	3600/3160×1380×1450	-	4000/3160×1440×1835	-
	1500	kg/mm	3700/3660×1380×1450	4900/3660×1450×1630	4200/3660×1440×1835	5500/3660×1560×1790
	2000	kg/mm	4100/4160×1380×1450	-	4600/4160×1440×1835	-
	3000	kg/mm	4700/5150×1380×1450	5500/5155×1450×1630	5200/5155×1440×1835	6100/5155×1560×1790
	4000	kg/mm	5800/6210×1380×1450	6100/6210×1450×1630	6300/6210×1440×1835	6700/6210×1560×1790
	5000	kg/mm	6800/7390×1380×1450	6900/7390×1450×1630	7300/7390×1440×1835	7500/7390×1560×1790
	6000	kg/mm	8500/8300×1380×1450	7500/8150×1450×1630	9000/8300×1440×1835	8100/8150×1560×1790
	7000	kg/mm	8900/9300×1380×1450	-	-	-
8000	kg/mm	-	9000/10500×1450×1630	-	-	
Max. load capacity	t	2.5(Standard configuration)	2.5(Standard configuration)	2.5(Standard configuration)	2.5(Standard configuration)	

Note: Note: The CW(93B, 110B) series lathes are products that have been highed based on the CW(63, 80) series lathes. The CW6263B and CW6293B does not have the length of 6000mm option.

Technical parameter

Item		Unit	CW 61100B CW 61100B(Increase load capacity to 3 tons)	CW 61125B CW 61125B(Increase load capacity to 3 tons)
Max. swing diameter over bed		mm	Φ1000	Φ1250
Max. length of workpiece		mm	1500/3000/5000/6000/8000	1500/3000/5000/6000/8000
Max. swing diameter over cross slide		mm	Φ610	Φ865
Spindle bore diameter		mm	Φ130	Φ130
Front taper of spindle hole		-	Metric 140 1：20	Metric 140 1：20
Types of spindle speeds	Forward	-	21 Kinds	21 Kinds
	Reverse	-	12 Kinds	12 Kinds
Spindle speed range	Forward	r/min	3.15-315(2-200)	3.15-315(2-200)
	Reverse	r/min	3.5-278(2.24-178)	3.5-278(2.24-178)
The range of feed per revolution of the tool post		-	56 Kinds	56 Kinds
Longitudinal		mm	0.1-12	0.1-12
Cross		mm	0.05-6	0.05-6
Upper toolpost		mm	0.025-3	0.025-3
Range of Metric threads		mm	56 Kinds 1-120	44 Kinds 1-120
Range of Inch threads		t.p.i	31 Kinds 24-1/4	31 Kinds 24-1/4
Range of Module threads		mm	45 Kinds 0.5-60	45 Kinds 0.5-60
Range of Diametral pitch threads		DP	38 Kinds 1/2-56	38 Kinds 1/2-56
Max. travel of saddle		mm	L-50	L-50
Max. cross travel of lower toolpost		mm	520	630
Max. cross travel of upper toolpost		mm	300	300
Rapid traverse of toolpost (Longitudinal/Cross)		mm/mm	3740/1870	3740/1870
Diameter of tailstock sleeve		mm	Φ160(Φ180)	Φ160(Φ180)
Max. travel of tailstock sleeve		mm	300	300
Taper of tailstock sleeve tapper		-	Morse #6 (Metric 80 1：20)	Morse #6 (Metric 80 1：20)
Main motor power		kW	22	22
Overall machine dimension	L	mm	L+3100	L+3100
	W	mm	2150	2150
	H	mm	1700	1825
Width of the bed		mm	755	755
Max.torque		KNm	12.85	12.85
Max. loadng capacity		kg	5000(8000)	5000(8000)
Number of rollers support/increased load capacity		Pcs /t	1/2	1/2

Note: When processing disk-type workpieces, the max load capacity is 2 tons. The data in () refers to parameter for an increased load capacity of 3 tons.

Item	1.5m	3m	5m	6m	8m
Machine net weight (kg)					
CW61100B	9200	10700	13000	13700	15700
CW61100B (The load capacity has increased by 3 tons)	9560	11060	13360	14060	16060
CW61125B	10200	11900	14500	15400	17900
CW61125B (The load capacity has increased by 3 tons)	10560	12260	14860	15560	18260

Note: The parameters provided in the table are for reference only. In case of any changes, please refer to the actual product.

Technical parameter

Item		Unit	S1- 245B	S1- 262A
Max. Diameter of pipe to be machined		mm	Φ60-Φ219	Φ114-Φ340
Max. turning length (Saddle travel)		mm	1000/1500	1000/1500/3000
Max. distance between centers (With tailstock)		mm	1000/1500	1000/1500/3000
Height from spindle center to guide way surface		mm	400	450
Height from spindle center to the ground		mm	1100	1150
Spindle bore diameter		mm	Φ240	Φ355
Front and rear taper fo spindle bore		-	1:50	1:50
Number of spindle speed steps		-	12	12
Spindle speed range		r/min	8-306	5.6-254
Number of longitudinal and cross feed range		-	32	32
Longitudinal feed rate range		mm/r	0.095-1.44	0.095-1.44
Cross feed rate range		mm/r	0.095-1.44	0.095-1.44
Range of Inch threads		t/in	1-14	1-14
Range of Metric threads		mm	1-15	1-15
Range of Module threads		mm	0.5-7.5	0.5-7.5
Range of Diametral pitch threads		t/in	28-2	28-2
Distance from spindle centerline to tool support surface		mm	33	33
Tool sectional size		mm	32×32	32×32
Swivel angle of intermediate toolpost		-	±90°	±90°
Max. cross travel of lower toolpost		mm	300	300
Max.travel of upper toolpost		mm	200	200
Rapid traverse of toolpost (Cross)		m/min	4	4
Max.taper length for continuous machining		mm	500	500
Max.cross travel		mm	100	100
Diameter of tailstock sleeve		mm	Φ100	Φ100
Travel of tailstock sleeve		mm	250	250
Taper of center sleeve		-	Morse #5	Morse #5
Taper of center		-	Morse #5	Morse #5
Cross travel of tailstock		mm	±15	±15
Main motor power		kw	18.5	18.5
Speed of main motor		r/min	1500	1500
Overall machine dimension	L	mm	3882.5/4190	3700/4190/5690
	W	mm	1908/1974	1908/1974/1974
	H	mm	1500/1500	1620/1620/1620
Machine net weight (kg)		kg	7876/8500	7876/8500/11200

Note: The parameters provided in the table are for reference only. In case of any changes, please refer to the actual product.

Machine configuration

Item	CW 6163B	CW 6263B	CW 6180B	CW 6280B	CW 6193B	CW 6293B	CW 6110B	CW 6210B
Max. cutting length	850,1350,1850,2850,3850,4850	850,1350,1850,2850,3850,4850	850,1350,1850,2850,3850,4850	850,1350,1850,2850,3850,4850	850,1350,1850,2850,3850,4850	850,1350,1850,2850,3850,4850	850,1350,1850,2850,3850,4850	850,1350,1850,2850,3850,4850
Steady rest								
Φ20-170	◇	◇						
Φ40-350			◇	◇				
Φ30-420					◇	◇		
Φ40-460							◇	◇
Φ160-350	◇	◇						
Φ300-640					◇	◇	◇	◇
Follow rest								
Φ20-130	◆	◆						
Φ30-130			◆	◆				
Φ30-180					◆	◆	◆	◆
Φ50-180			◇	◇				
3-jaw chuck								
K11315C/D11	◆	◆	◆	◆	◆	◆	◆	◆
Φ400	◇	◇	◇	◇	◇	◇	◇	◇
Φ500	◇	◇	◇	◇	◇	◇	◇	◇
4-jaw chuck								
Φ400	◇	◇	◇	◇	◇	◇	◇	◇
Φ500	◇	◇	◇	◇	◇	◇	◇	◇
Φ630		◇	◇	◇	◇	◇	◇	◇
Φ800				◇	◇	◇	◇	◇
Spindle bore								
Φ104	◆	◆	◆	◆	◆	◆	◆	◆
Type of spindle nose								
D11	◆	◆	◆	◆	◆	◆	◆	◆
Center								
5 S25-2	◆	◆	◆	◆	◆	◆	◆	◆
Center sleeve								
	◆	◆	◆	◆	◆	◆	◆	◆
Live center								
Morse #5	◇	◇	◇	◇	◇	◇	◇	◇
Facing plate								
Φ650		◇	◇	◇	◇	◇	◇	◇
Φ800				◇	◇	◇	◇	◇
Φ930					◇	◇	◇	◇
Φ1120								◇
Adjustable pads (pcs)	◇	◇	◇	◇	◇	◇	◇	◇

Note: ◆ Standard configuration ◇ Optional configuration A blank indicates that the configuration is not available. For special configurations, please contact us.

Item	S1-245B 1000/1500	S1-262A 1000/1500	S1-262A 3000
Steady rest	◇	◇	◆
Domestically produced bearings	◆	◆	◆
Vertical 4-position toolpost	◆	◆	◆
Single tailstock	◇	◇	◆
Taper attachment	◆	◆	◆
Electric 4-jaw chuck	◆	◆	◆
Motor	◆	◆	◆

Note: ◆ Standard configuration ◇ Optional configuration A blank indicates that the configuration is not available. For special configurations, please contact us.

Machine configuration

Item	CW 6163B/6000 CW 6163B/7000 CW 6263B/7000	CW 6180B/6000 CW 6180B/8000 CW 6280B/6000 CW 6280B/8000	CW 6193B/6000	CW 6110B/6000	CW 6110B/1500	CW 6110B/3000 CW 6110B/5000 CW 6110B/6000 CW 6110B/8000	CW 61125B/3000 CW 61125B/5000 CW 61125B/6000 CW 61125B/8000
Tailstock							
Manual tailstock	◆	◆	◆	◆	◆	◆	◆
3-jaw manual chuck							
Φ315	◆	◆	◆	◆			
Φ400	◇	◇	◇	◇			
Φ500	◇	◇	◇	◇	◇	◇	◇
4-jaw manual chuck							
Φ400	◇	◇	◇	◇			
Φ500	◇	◇	◇	◇	◇	◇	◇
Φ630	◇	◇	◇	◇	◇	◇	◇
Φ800		◇	◇	◇			
Φ1000					◆	◆	◆
Toolpost							
Manual Toolpost	◆	◆	◆	◆	◆	◆	◆
Facing plate							
Φ650	◇						
Φ800		◇					
Φ930			◇				
Φ1110				◇			
Steady rest							
Φ20-Φ170mm	◇						
Φ40-Φ350mm		◇					
Φ30-Φ420mm			◇				
Φ40-Φ460mm				◇			
Φ300-Φ640mm			◇	◇			
Φ50-Φ400mm						◇	
Φ50-Φ540mm							◇
Φ130-Φ480mm		◇					
Φ160-Φ350mm	◇						
Φ180-Φ600mm					◇	◇	◇
Follow rest							
Φ20-Φ130mm	◆						
Φ30-Φ130mm		◆					
Φ30-Φ180mm			◆	◆			
Φ50-Φ220mm		◇				◆	◆
Φ200-Φ310mm	◇	◇					
Live center							
Morse #5	◇	◇	◇	◇			
Morse #6					◆	◆	◆
Roller support							
Φ470-Φ630mm					◇	◇	◇
Increased load capacity							
The load capacity has increased by 3 tons					◇	◇	◇

Note: For CW61100B/CW61125B,the load capacity is increased by 3 tons. The standard center rest is 180mm-600mm,and the standard live center is metric 80.

Note: ◆ Standard configuration ◇ Optional configuration A blank indicates that the configuration is not available. For special configurations, please contact us.