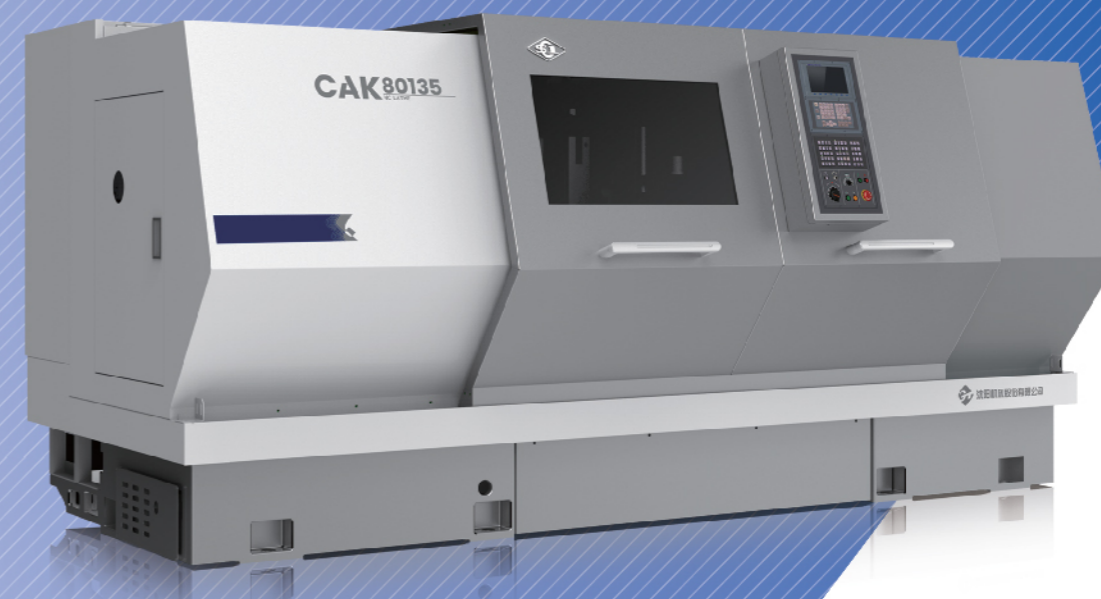


CAK Series CNC Lathe

The explanation, diagram and technical parameters are varying with continuous technology development without further notice.

Service line

400-615-9999



No.1,17-A, Kaifa Avenue, Shenyang Economic & Technological Development Zone, Shenyang, China
Scan QR code to follow official WeChat

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

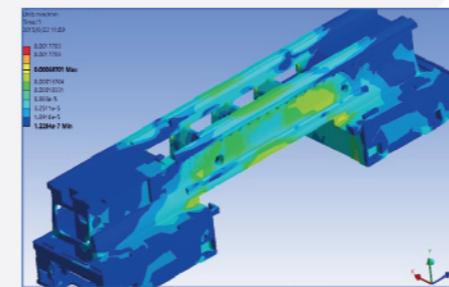
Effective and stable

C Strong body

Heavy and strong

D Smart brain

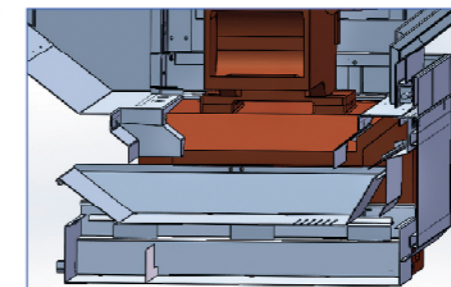
Customized controller



High rigidity



Dynamic balance



Strong water proof



Length-diameter ratio



Big torque



High efficiency

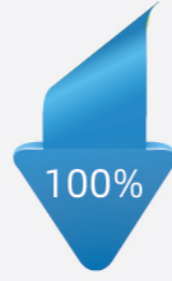


Controller

◆ The picture is a rendered image, and the actual object shall prevail

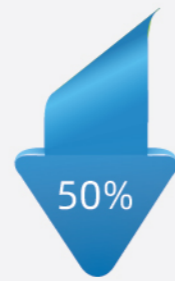
Product advantages

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.



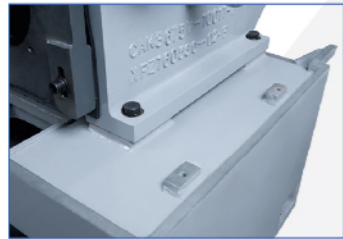
Surface quality improved

Absolute encoder reduced fault

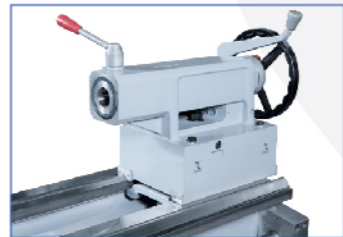


Shorter accelerate and decelerate time

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
Max cutting length	mm	650	650	850	850
Max swing diameter over bed	mm	Φ400	Φ400	Φ400	Φ400
Max.swing diameter over slide	mm	Φ180	Φ200	Φ200	Φ200
Max cutting diameter	mm	Φ360	Φ400	Φ400	Φ400
Spindle nose type		A2-6	A1-6	A1-6	A1-6
Chuck diameter	mm	Φ200	Φ250	Φ250	Φ250
Spindle bore	mm	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)
Tailstock quill diameter	mm	Φ60	Φ60	Φ60	Φ60
Tailstock quill travel	mm	140	140	140	140
Turret type		Vertical 4 positions	Horizontal 6 positions	Vertical 4 positions	Horizontal 6 positions
Tool shank size	mm	□20×20	□20×20	□20×20	□20×20
X/Z axis rapid traverse	m/min	6/12	6/12	6/12	6/12
Machining accuracy		IT6-IT7	IT6-IT7	IT6-IT7	IT6-IT7
Machine net weight	kg	1860	1860	1960	1960
Overall dimension (LxWxH)	mm	2350×1500×1580	2350×1500×1580	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

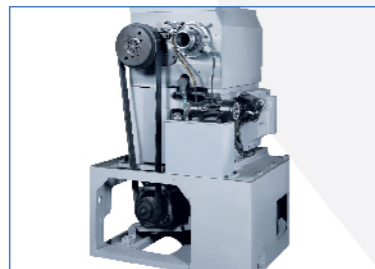
Material:Alloy steel
Machining time:9 mins

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
		85L	85P	85	135	186	85
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



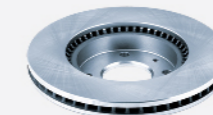
Valve
Valve industry
Material: Cast iron
Machining time:9 mins



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



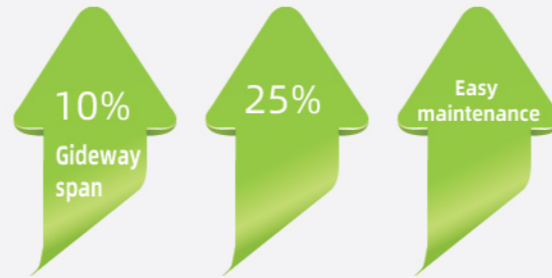
Motor shaft
Motor industry
Material:45# steel
Machining time:12 mins



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

Product advantages

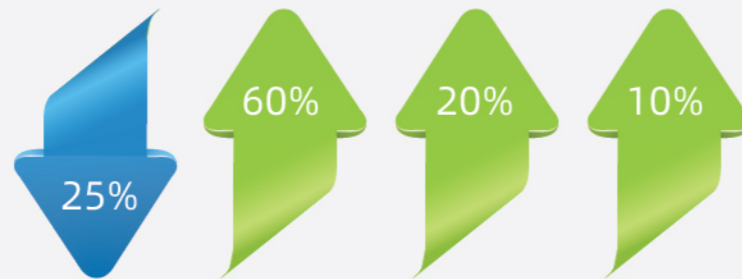
Unique patent hydraulic shift headstock structure;
 External hanging main servo motor, save space, easy maintenance;
 T-grooved tail stock structure improve stability;
 Super waterproof groove structure increase waterproofability.



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			
		85	135	200	285	85	135/135S	200	285	85	135	200	285
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	3410×2010×1780	3860×2010×1780	4510×2010×1780	5360×2010×1780	3410×2010×1780	3860×2010×1780	4510×2010×1780	5360×2010×1780	3410×2250×1930	3860×2250×1930	4510×2250×1930	5360×2250×1930

Samples



Valve

Valve industry

Material: Casting

Machining time:14 mins



Train shaft

Rail transit industry

Material: LZW50 steel

Machining time:25 mins



Thrust wheel

Engineering industry

Material: Manganese steel

Machining time:19 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																	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	
4-jaw manual chuck	Φ200	◊	◊	◊	◊																								
	Φ250	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊																	
	Φ320					◊	◊	◊	◊	◊	◊	◊																	
	Φ400													◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	
	Φ500													◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	
Hydraulic chuck	Φ800																	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	
	8" Solid/Hollow	◊	◊	◊	◊																								
	10" Solid/Hollow	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊																	
	12" Solid/Hollow																												
Turret	15" Solid/Hollow																												
	Vertical 4-position	◆	◆	◆	◊	◆	◊	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Horizontal 6-position	◊	◊	◊	◆	◊	◆	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	
	Gang tool	◊	◊	◊	◊																								
	Φ30 ~ Φ80mm(Roller type)	◊	◊	◊	◊																								
	Φ20 ~ Φ125mm(Roller type)																												
	Φ120 ~ Φ190mm(Roller type)																												
Steady rest	Φ140 ~ Φ210mm(Roller type)																												
	Φ160 ~ Φ350mm(Roller type)																												
	Φ20 ~ Φ170mm(Roller type)																												
	Φ50 ~ Φ400mm(Roller type)																												
	Φ30 ~ Φ80mm	◊	◊	◊	◊																								
	Φ20 ~ Φ90mm																												
Follow rest (not for horizontal turret)	Φ20 ~ Φ110mm																												
	Φ60/Φ80/Φ100/Φ120																												
	Single spindle	◆	◆	◆	◆																								
Spindle	Manual shift					◆Stepless		◊Stepless	◆	◊Stepless	◆	◊Stepless	◆	◊Stepless	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Auto shift																												
Chip box		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
Chip conveyor	Rear chip conveyor	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	
Safety lock		◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	

◆ Standard ◊ Optional

