

FULLTONTech

WE ARE DIFFERENT

We don't produce the cheapest machine, but the high class & reliable machine

YOUR TRUSTWORTHY PARTNER!



www.FULLTONTech.com

VERTICAL LATHE



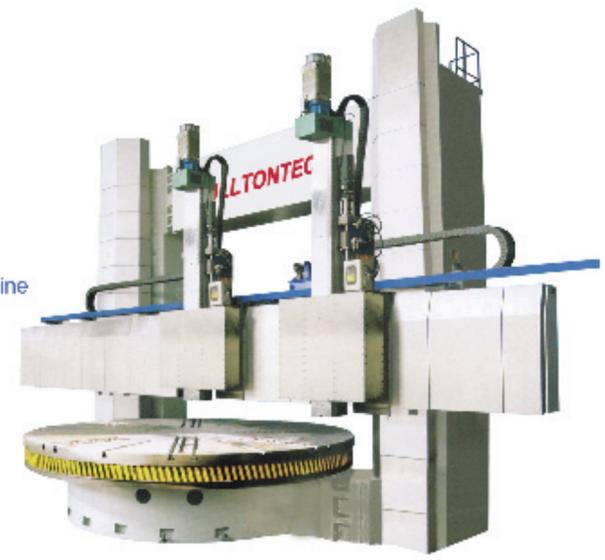
Headquartered in Dalian, one of the largest seaport cities of China, Dalian Fullton Machinery Co., Ltd is a leading machinery group corp. focusing on the production of heavy duty machine tools in its four manufactories respectively with the product range of Vertical Turret Lathe, Heavy-duty Horizontal Lathe, Boring Mills and Gantry Milling Machine of both conventional and CNC type.

In reliance of the advantage in product range, reliable quality, technical backup and after-sales service, FULLTONTTECH has become a well-known Chinese brand name overseas.

Combined with outstanding productivity and service our customers enjoy a significant market advantage. We believe in achieving excellence in service and continual improvement in products. Fullton Machinery would constantly strives toward the aim of precision, innovation, service and the practical, sustainable approach to business.



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Situada en Dalian, una de las ciudades portuarias más grandes de China, Dalian Fullton Machinery Co.Ltd. es la maquinaria líder enfocado en la producción de máquinas pesadas en sus cuatro fabricantes que producen respectivamente torno vertical, torno pesado, mandrinadora y fresadora de Pórtico tanto convencional cuanto CNC.

En dependencia de la ventaja en la gama de productos, calidad confiable, respaldo técnico y servicio post venta. FULLTONTTECH se ha convertido en una marca famosa de china y en mercado internacional.

Combinado con una excelente productividad y servicio, nuestros clientes disfrutan de una importante ventaja de mercado. Creemos en lograr la excelencia en el servicio y la mejora continua de los productos. Fullton Machinery se esforzará constantemente hacia el objetivo de la precisión, la innovación, el servicio y el enfoque práctico y sostenible de los negocios.

Main Application Fields ✓

Áreas De Aplicación Principal

✓ Aerospace Aeroespacial



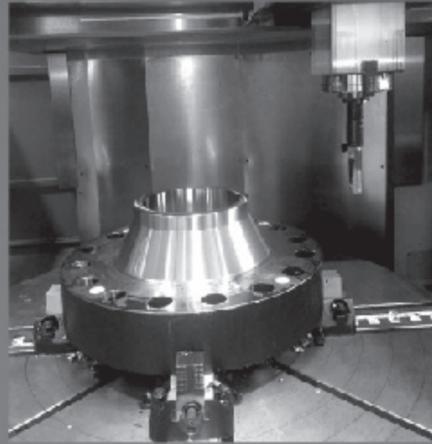
✓ Rail Transit Tránsito Ferroviario



✓ Shipping Industries Industrias Navieras



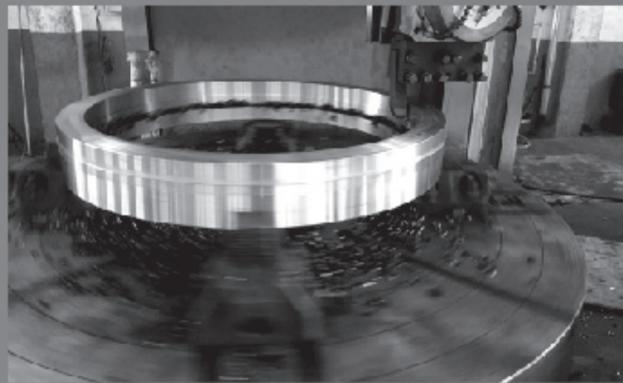
✓ Mining Machine Máquina Minera



✓ General Machine Máquina General



✓ Wind Power Energía Eólica



✓ Cutting Cortado



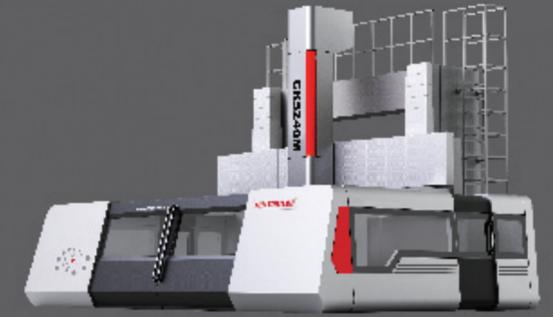
✓ Milling Fresado



✓ Drilling Perforado



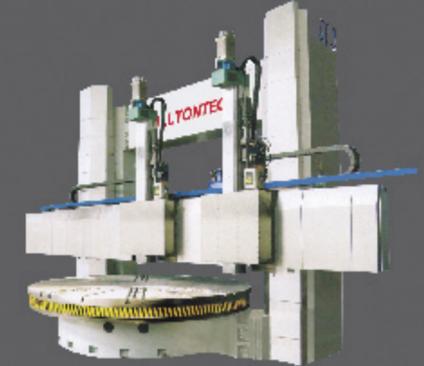
✓ Single Column Vertical Lathe-Turning& Milling
Torno Vertical Columna Único- Torneado y Fresado



✓ Double Column Vertical Lathe-Turning& Milling
Torno Vertical Columnas Doble- Torneado y Fresado



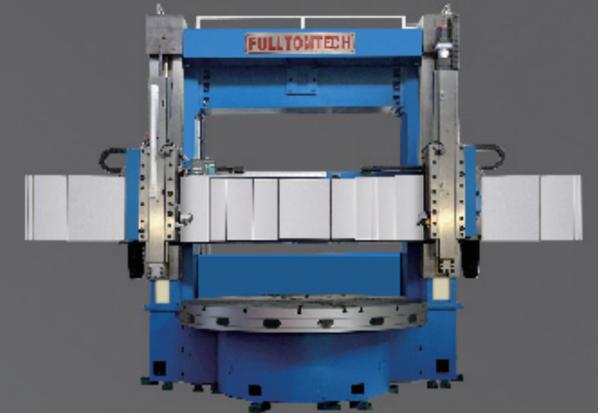
✓ Single Column Vertical Lathe-CNC
Torno Vertical CNC Columna Único



✓ Double Column Vertical Lathe-CNC
Torno Vertical CNC Columnas Doble



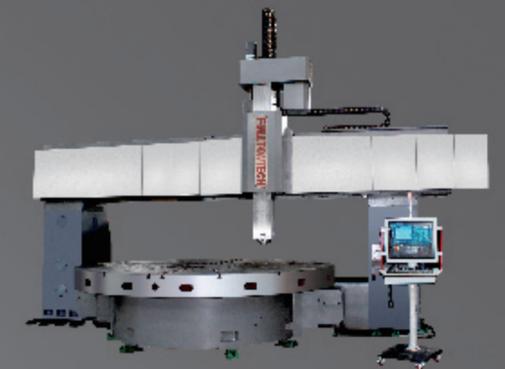
✓ Single Column Vertical Lathe-Conventional
Torno Vertical CNC Columna Único-Convencional



✓ Double Column Vertical Lathe-Conventional
Torno Vertical CNC Columnas Doble-Convencional



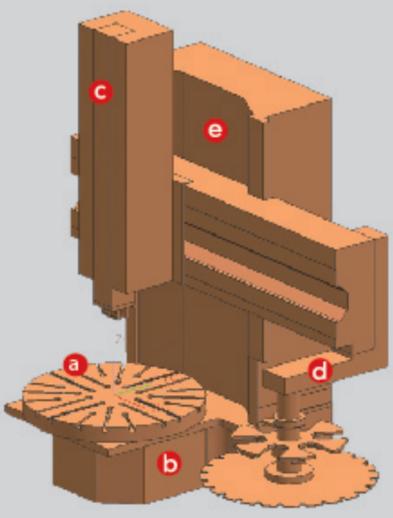
✓ High Speed Vertical Lathe-Train Wheel
Torno Vertical Con Alta Velocidad-Rueda De Tren



✓ Customized Vertical Lathe
Torno Vertical Personalizado



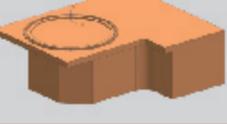
The Advanced Structure And Features



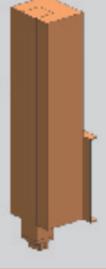
a Worktable
Special design 4 jaws chuck with high load capacity, could choose hydraulic chuck as option. The cross roller bearing is under the chuck which ensure the high speed turning and high accuracy.



b Worktable base
Made by high quality casting, with special design structure for reinforce and waterproof.



c Ram
Forging steel, with Tempering and heat treatment, the square structure could guarantee the heavy cutting and accuracy.



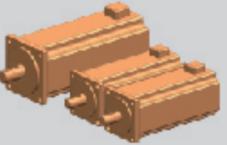
d ATC-Tool Magazine
30 stations servo ATC, 6 station cutting toolpost with high coupling & 24 stations for drilling/milling tools.



e Column
Column is made of high rigid resin sand castings with thermal / vibratory stress relief (VSR) aging treatment.

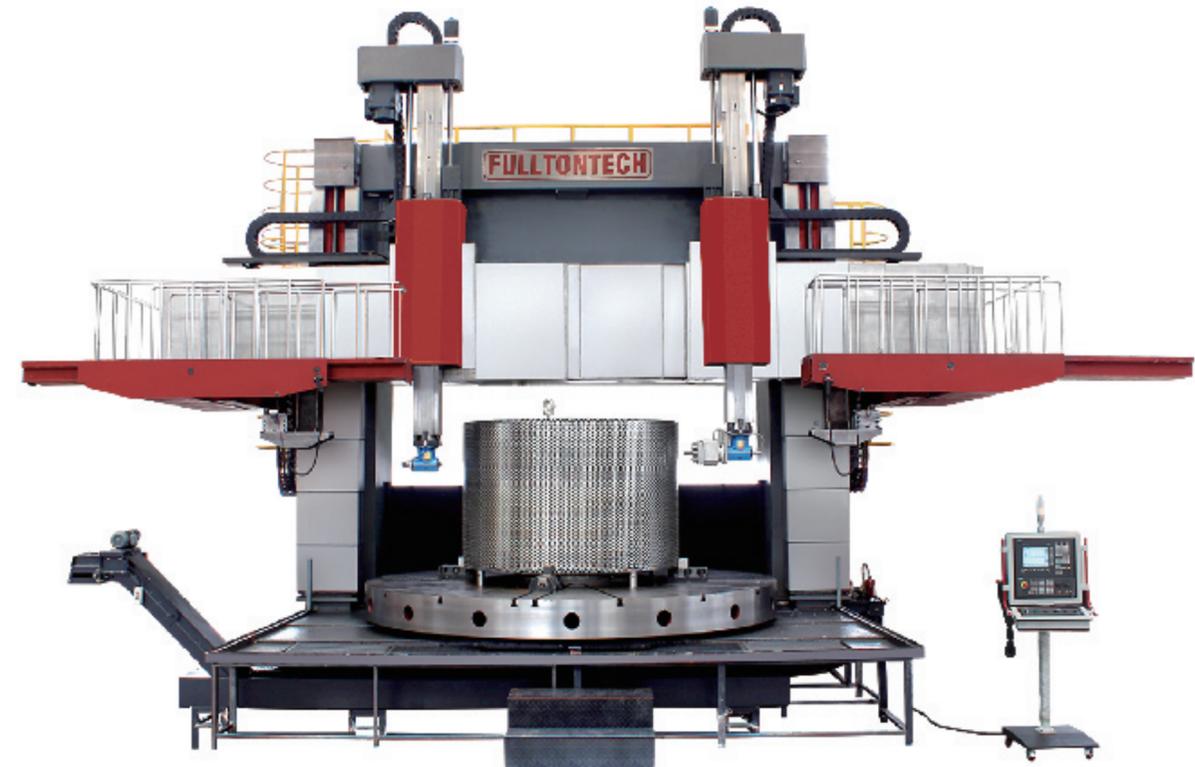
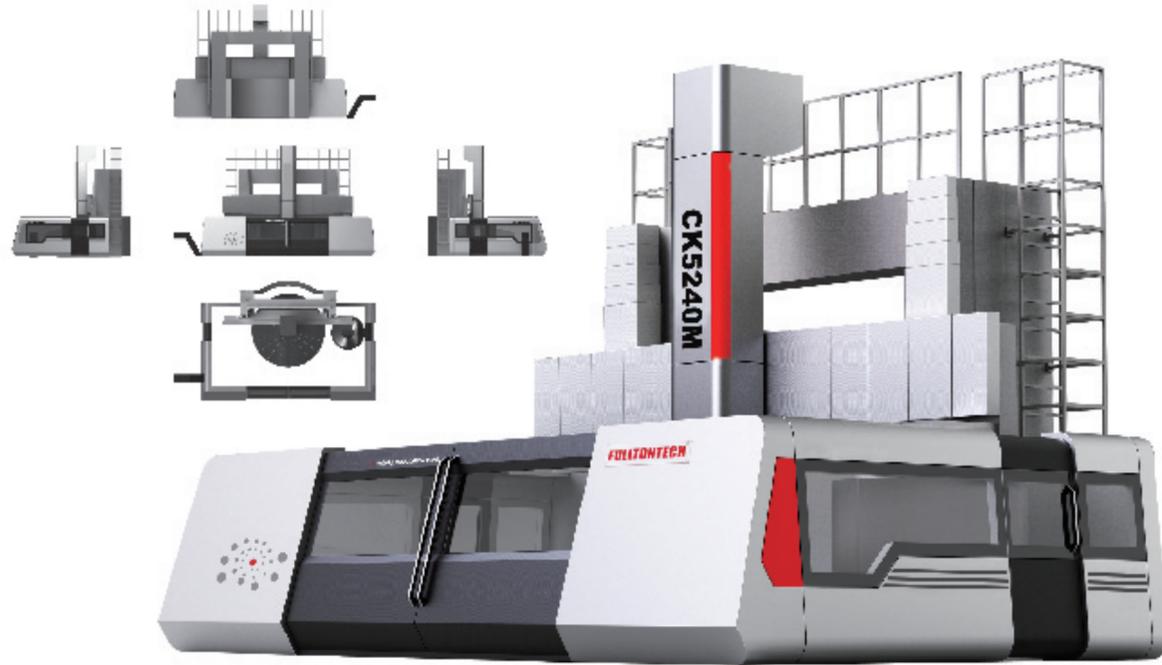


Worktable drive
High performance servo motor are using for main drive, big power dual speed servo motor is for main drive of cutting, the other two servo motors are for C axis and indexing.





Specifications Especificaciones	Unit	CK5108HM	CK5110HM	CK5112HM	CK5116HM	CK5120HM	CK5123M
Max. swing diameter Máx. diámetro de balanceo	mm	800	1000	1350	1700	2000	2300
Max. cutting diameter Máx. diámetro de corte	mm	800	1000	1350	1700	2000	2300
Worktable diameter Diámetro de la mesa de trabajo	mm	720	900	1000	1400	1800	2000
Max. workpiece height Máx. altura de la pieza de trabajo	mm	600/800	600/800	1200/1400	1400/1600	1600	1600
Max. worktable load Peso máximo sobre la mesa	ton	2	2	5	8	10	8
Worktable main motor Potencia de motor de la mesa	kw	22	22	30/37	37/45	45	45
Worktable speed Velocidad de la mesa	rpm	800	630	400	300	250	125
Travel of X axis Recorrido de longitudinal X	mm	500	600	700	900	1100	1250
Travel of Z axis Recorrido de vertical Z	mm	600/800	600/800	800	1000	1000	1000
Crossbeam balance positioning block Bloqueo de la viga transversal	mm	Fixed crossbeam Bloqueo en cualquier posición			200mm each cada 200mm		
Tool capacity-Servo ATC Capacidad de ATC	station	24 (milling tool) plus 8 (cutting tool post) 24(herramienta de fresado)más 8(porta herramienta para corte)					
Live spindle taper Alojamiento del cono		ISO50/BT50					
Milling head speed Velocidad del cabezal de fresado	rpm	2000					
Ram section size Tamaño de la sección de RAM	mm	255x255					
Max. output torque Torque máximo	N.m	600					
Live spindle motor-Siemens servo Potencia de motor de husillo-SIEMENS	kw	17					
Machine weight(around) Peso neto aproximado	ton	18	20	29	36	43	45



Features and Options:

- Crossbeam adopts the combination of linear guideway and boxway, which could guarantee the accuracy and rigidity at the same time
- X axis and Z axis adopt the optical learner scale for the guarantee of the accuracy
- ATC-Tool magazine: Servo type 30 stations: 6 stations toolpost with hirth coupling for cutting
24 stations for drilling & milling tools shank(BT50/ISO50/CAT50)
- Could choose two rams in CNC with simultaneous machining or two CNC ram both with live spindle
- Could choose the 90 degree milling head, which could put into ATC for automatic clamping
- CTS-Coolant through spindle, we offer 5mpa, 10mpa
- Siemens 828D, Siemens 840D SL, Fanuc Oi TF, Fanuc 31i
- Machining height and ram travel can be customized
- Enclosure guard with coolant collection, chip conveyor

Características y Opciones

- La viga transversal adopta la combinación de guía lineal y bancada, que podría garantizar la exactitud y la rigidez al mismo tiempo
- El eje X y eje Z adoptan la escala óptica para garantizar la precisión
- ATC-magazine, hay 30 estaciones:
porta herramientas de 6 estaciones con piñón de indexación para corte
24 estaciones para perforado y fresado, mango de herramientas(BT50/ISO50/CAT50)
- Podría elegir dos RAM CNC con mecanizado simultáneo o dos RAM CNC con husillo motorizado.
- Podría elegir el cabezal de fresado de 90 grados, que se podría colocar en ATC magazine para la sujeción automática
- CTS-Refrigerante interno en husillo, ofrecemos 5mpa, 10mpa
- Siemens 828D, Siemens 840D SL, Fanuc Oi TF, Fanuc 31i
- La altura de mecanizado y recorrido de RAM se pueden personalizar.
- Protección completo con recogida de refrigerante, transportador de virutas

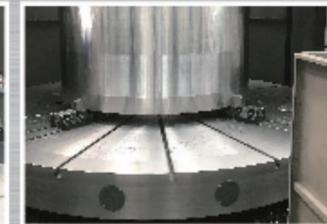
Specifications Especificaciones	Unit	CK6226M	CK6231M	CK6240M	CK6260M	CK6283M	CK6280M	CK62100M
Max. swing diameter Máx.diámetro de balanceo	mm	2500	3100	4000	5000	6300	8000	10000
Max. cutting diameter Máx.diámetro de corte	mm	2500	3100	4000	5000	6300	8000	10000
Worktable diameter Diámetro de la mesa de trabajo	mm	2250	2830	3150/3600	4000/4500	4800/5700	6000	6000/7200
Max. workpiece height Máx.altura de la pieza de trabajo	mm	2000/2500	2000/2500	2000/2500/3150	2500/3150/4000	3150/4000	3150/4000/5000	4000/5000
Max. worktable load Peso máximo sobre la mesa	ton	16	16	20/32	32/50	50/80/100	100/150	150/200
Worktable main motor Potencia de motor de la mesa	kw	75	75	75	75/90	90/110	110/132	132/160
Worktable speed Velocidad de la mesa	rpm	63	63	50	40	40	20	20
Travel of X axis Recorrido de longitudinal X	mm	1350	1700	2100	2600	3300	4200	5200
Travel of Z axis Recorrido de vertical Z	mm	1000/1300	1000/1300	1000/1300/1600	1300/1600/2000	1600/2000	1600/2000/2500	2000/2500
Tool capacity-Servo ATC Capacidad de ATC	station	24 (milling tool) plus 6 (cutting tool post) 24(herramienta de fresado)más 6(portaherramienta para corte)						
Live spindle taper Alojamiento del cono		ISO50/BT50						
Milling head speed Velocidad del cabezal de fresado	rpm	2000						
Ram section size Tamaño de la sección de RAM	mm	255x255/280x280/320x320/400x400						
Max. output torque Torque máximo	N.m	600/800						
Live spindle motor-Siemens servo Potencia de motor de husillo-SIEMENS	kw	17/28						



ISO9001

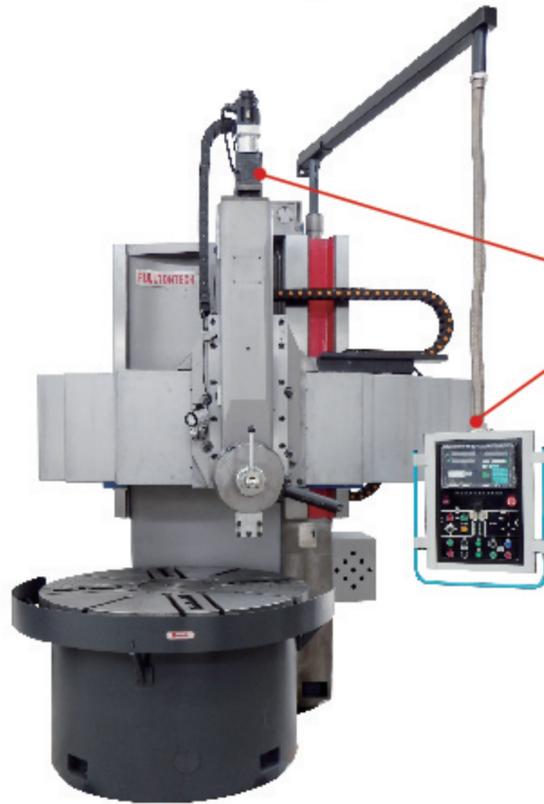
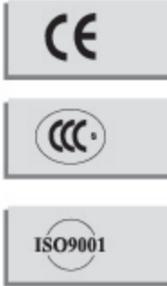


ISO9001

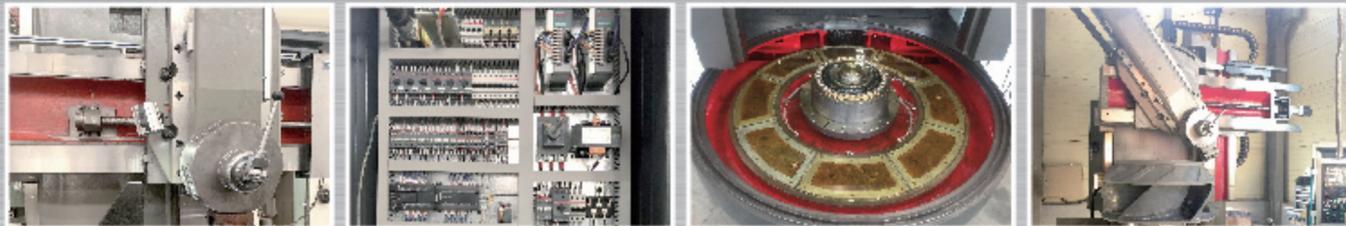
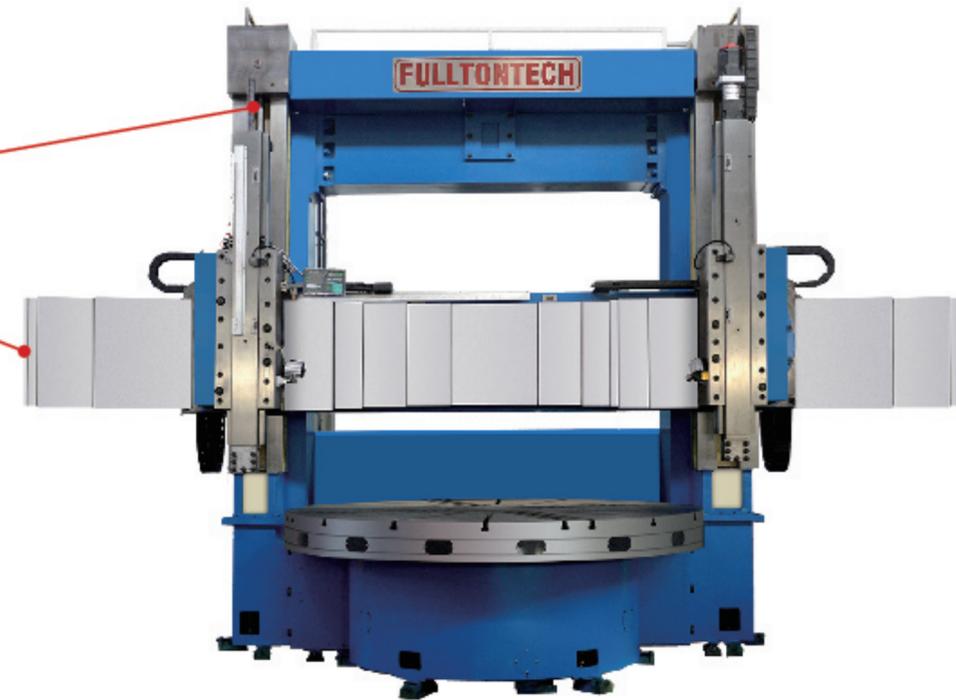


Specifications Especificaciones	unit	CK5112	CK5116	CK5120	CK5123	CK5126
Max. machining diameter Máx. diámetro de corte	mm	1250	1600	2000	2300	2600
Diameter of worktable Diámetro de la mesa	mm	1000	1400	1800	2000	2250
Max. height of workpiece Máx. altura de la pieza de trabajo	mm	1000/1200	1200/1400/1600	1600/1800	1600/1800	1600/1800
Max. weight of workpiece Peso máximo sobre la mesa	ton	3.5	5	8	8	10
Worktable turning speed Velocidad de la mesa	rpm	1-250	1-200	0.5-100	0.5-80	0.5-80
Worktable turning speed steps Paso de velocidad de la mesa	step	4 steps / 2 steps 4 pasos / 2 pasos				
Horizontal travel of ram-X axis Recorrido de RAM longitudinal X	mm	675	850	1050	1200	1350
Vertical travel of ram-Z axis Recorrido de RAM vertical Z	mm	800	800	800	800	800
Tool post Porta herramienta		Square ram with toolpost / Electric turret RAM cuadrado/ torreta eléctrica				
Power of main motor Potencia de motor principal	kw	30	45	45	45	45
CNC system Controles numéricos		Siemens/Fanuc				

Specifications Especificaciones	Units	CK5225	CK5231	CK5240	CK5250	CK5263	CK5280	CK52100
Max. machining diameter Máx. diámetro de corte	mm	2500	3150	4000	5000	6300	8000	10000
Diameter of worktable Diámetro de la mesa	mm	2250	2830	3150/3600	4000/4500	4800/5700	5700/6000	6000/7200
Max. height of workpiece Máx. altura de la pieza de trabajo	mm	2000/2500	2000/2500	2000/2500/3150	2500/3150/4000	3150/4000	3150/4000/5000	4000/5000
Max. weight of workpiece Peso máximo sobre la mesa	ton	16	16	16/32	32/50	50/80/100	100/150	150/200
Toolpost/Ram Portaherramienta/RAM		Two Rams: Left is manual, Right is CNC Dos RAMs: Izquierdo manual, Derecho CNC						
Worktable turning speed Velocidad de la mesa	rpm	0.5-63	0.5-63	0.5-50	0.5-40	0.5-40	0.5-20	0.5-20
Worktable turning speed steps Paso de velocidad de la mesa	steps	2/4 steps	2/4 steps	2 steps	2 steps	2 steps	2 steps	2 steps
Horizontal travel of ram-X axis Recorrido de RAM longitudinal X	mm	1300	1650	2050	2550	3200	4100	5200
Vertical travel of ram-Z axis Recorrido de RAM vertical Z	mm	1000/1300	1000/1300	1000/1300/1600	1300/1600/2000	1600/2000	1600/2000/2500	2000/2500
Power of main motor Potencia de motor principal	kw	55/75	55/75	75	75/90	90/110	110/132	132/160
CNC system Controles numéricos		Siemens/Fanuc						

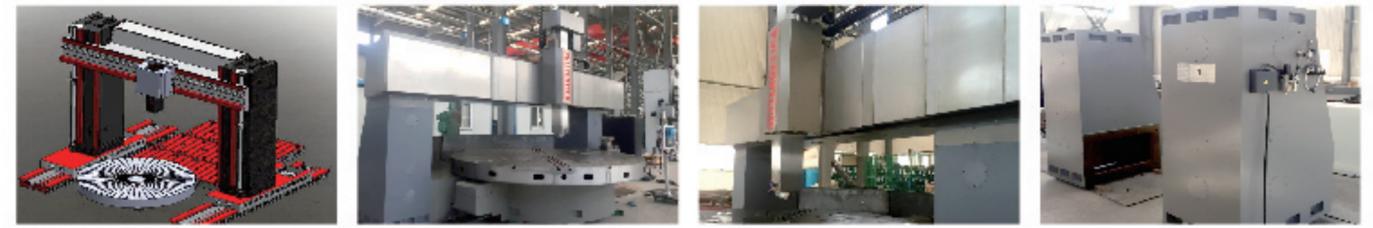
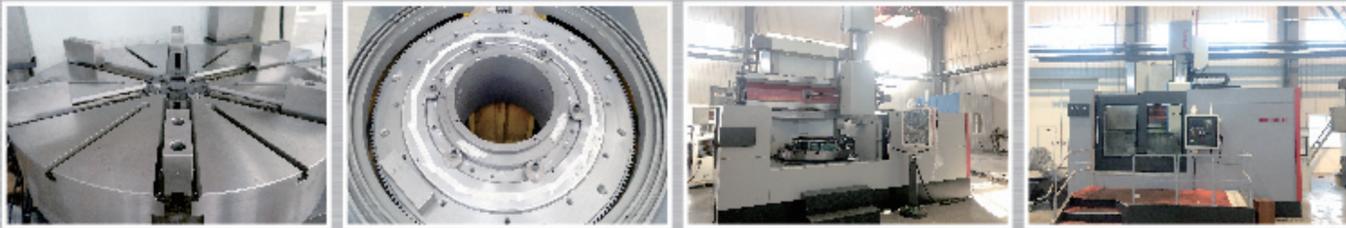
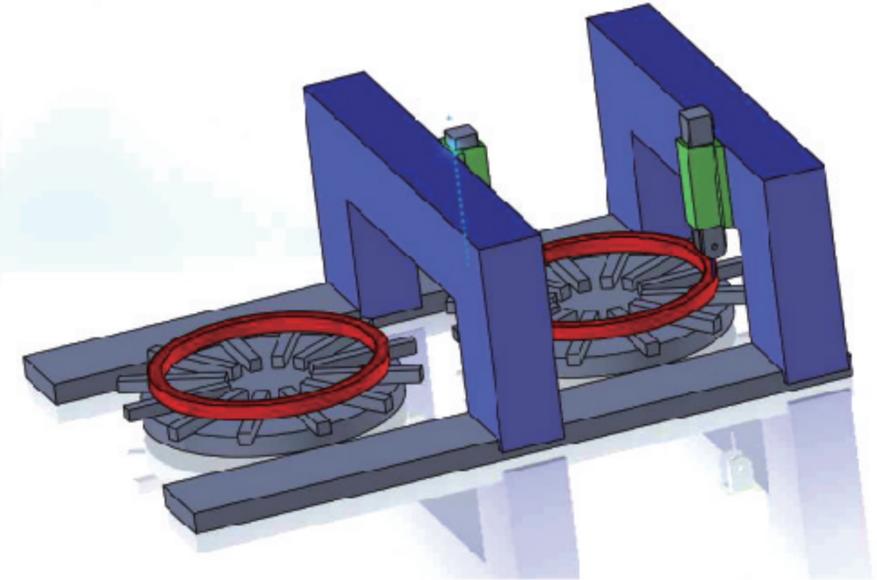
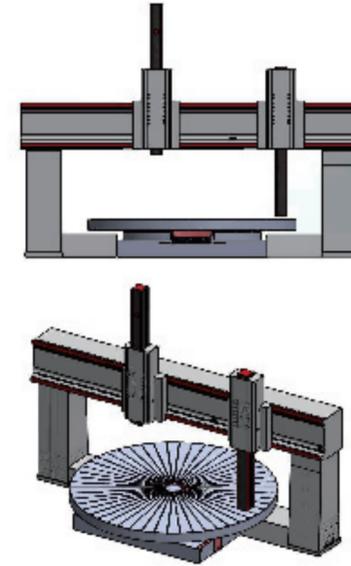


X&Z Axis Use Servo Motor With Ballscrew For Feeding



Specifications Especificaciones	Unit	C5112	C5116	C5120	C5123	C5126
Max. swing diameter Máx. diámetro de balanceo	mm	1250	1600	2000	2300	2600
Diameter of worktable Diámetro de la mesa	mm	1000	1400	1800	2000	2250
Max. height of workpiece Máx. altura de la pieza de trabajo	mm	1000/1200	1200/1400/1600	1600/1800	1600/1800/2000	1600/1800/2000
Max. weight of workpiece Peso máximo sobre la mesa	ton	3.2	5	8	8	10
Worktable turning speed range Rango de velocidad de la mesa	rpm	6.3-200	5-160	3.2-100	3.2-100	2-63
Worktable turning speed range Paso de giratorio de la mesa	step	16	16	16	16	16
Ram feeding in X & Z axis Avance de RAM en eje X-Z	mm/min	0.2-630 (Drive by servo motor and ballscrew) 0.2-630 (servo motor y tornillo de bola)				
Horizontal travel of ram-X axis Recorrido de RAM longitudinal X	mm	675	850	1050	1200	1350
Vertical travel of ram-Z axis Recorrido de RAM vertical Z	mm	800	800	800/1000	800/1000	800/1000
Ram swivel Balanceo de RAM	degree	±30	±30	±30	±30	±30
Digital Readout (DRO) DRO	axis	X&Z-2 axis				
Power of main motor Potencia de motor	kw	22	30	30	30	37

Specifications Especificaciones		C5225	C5231	C5240	C5250	C5263
Max. swing diameter Máx. diámetro de balanceo	mm	2500	3150	4000	5000	6300
Diameter of worktable Diámetro de la mesa	mm	2250	2830	3150/3600	4000/4500	4800/5700
Max. height of workpiece Máx. altura de la pieza de trabajo	mm	2000	2000/2500	2000/2500/3150	2500/3150/4000	3150/4000
Max. weight of workpiece Peso máximo sobre la mesa	ton	16	16	16/32	32/50	50/100
Worktable turning speed Velocidad de la mesa	rpm	2-63	2-63	0.5-50	0.5-40	0.5-40
Worktable turning speed range Paso de giratorio de la mesa	step	16 or 2	16 or 2	2	2	2
Horizontal travel of ram-X1, X2 axis Recorrido de RAM longitudinal X1 X2	mm	1300	1650	2050	2550	3250
Vertical travel of ram-Z1, Z2 axis Recorrido de RAM vertical Z1, Z2	mm	1000	1000/1300	1000/1300/1600	1300/1600/2000	1600/2000
Crossbeam travel Recorrido de la viga transversal	mm	1600	1600/2100	1600/2100/2750	2100/2750/3500	2650/3500
Digital Readout (DRO) DRO		2 axis for right ram 2 ejes por RAM derecho				
Power of main motor Potencia de motor		55/75	55/75	75	75	90/110



Specifications Especificaciones	unit	CK5112H	CK5116H	CK5120H
Max. machining diameter Máx. Diámetro de corte	mm	1250	1600	2000
Diameter of worktable Diámetro de la mesa	mm	1000	1400	1800
Max. height of workpiece Máx. altura de la pieza de trabajo	mm	1000/1200	1200/1400/1600	1600/1800
Max. weight of workpiece Peso máximo sobre la mesa	ton	5	8	10
Worktable turning speed Velocidad de la mesa	rpm	1-400	1-315	0.5-250
Worktable turning speed steps Paso de velocidad de la mesa	step	2 steps 2 pasos		
Horizontal travel of ram-X axis Recorrido de RAM longitudinal X	mm	675	850	1050
Vertical travel of ram-Z axis Recorrido de RAM vertical Z	mm	800	800	800
Tool post Porta herramienta		Square ram could choose ATC RAM cuadrado podría elegir ATC		
Power of main motor Potencia de motor principal	kw	37	37	37
CNC system Controles numéricos		Siemens/Fanuc		

Customized Vertical Lathe
Give us your idea or let us know your workpiece information
We can design the machine for you!

Torno Vertical Personalizado
Denos su idea o háganos saber la información de su pieza de trabajo,
¡podemos diseñar la máquina para usted!



