

Soluções em Máquinas-Ferramenta

CNC

Nossa Performance
faz A DIFERENÇA



Usinagem Média & Pesada

Tornos Verticais CNC & Convencionais

Distribuidor
Fulltontech

Diferenciais

- CNC & Convencional
- Guias Hidrostáticas
- Comando Siemens
- Duplo RAM
- Rolamento INA / NSK
- Painel Mecano - Alemanha
- Alta Precisão & Repetibilidade
- RAM temperado e retificado
- Opcional: Eixo: C & Y
- Opcional: Ferramenta Acionada
- Placa Hidrostática
- Estrutura em Ferro Fundido
- Diâm. de 1,25 a 16,2 metros
- Até 400 toneladas

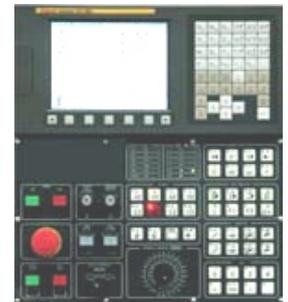
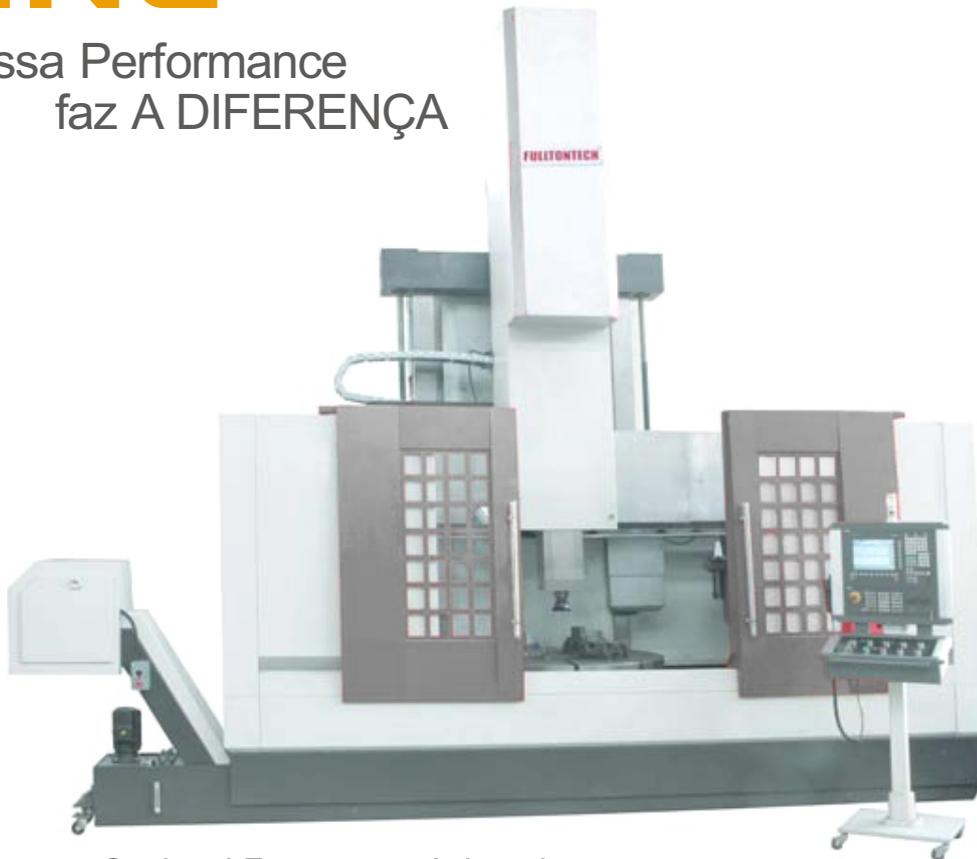
Torno Vertical CNC Uma Coluna



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Opcional Ferramenta Acionada
Opcional Eixo "C"
Opcional Cabine de Fechamento

Main Specifications	unit	Model				
		CK5112	CK5116	CK5120	CK5123	CK5126
Vertical turret cutting diameter(Max.)	mm	1250	1600	2000	2300	2600
Diameter of worktable	mm	1000	1400	1800	2000	2250
Max.height of workpiece	mm	1000	1200	1400	1400	1600
Max.weight of workpiece	ton	3.5	5	8	8	10
Speed range of worktable turning	r/min	2-250	2-200	2-120	2-120	2-80
Speed step of worktable turning	step	4 steps with frequency conversion ,stepless in each range				
Max. cutting force of vertical tool head	N.	17000	25000	40000	40000	50000
Tool head horizontal travel	mm	850	1020	1115	1400	1500
Tool head vertical travel	mm	750	750	750	750	800
Tool post		electric 4 positions				
Rapid travel of tool head	mm/min	8000/3000		3000	3000	3000
Cross rail travel	mm	600	850/1000	890/1240	990/1240	1240/1640
Rapid travel of cross rail	mm/min	660	660	440	440	440
Section of tool shank(L X W)	mm	32X32	40x40	40x40	40x40	40x40
Power of main motor	kw	37	45	45	45	45
Net weight of machine	ton	9	13.2/15	16	19.5/22	28/30
CNC system		Siemens/Fanuc				

Torno Vertical CNC Dupla Coluna



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Main Specifications	unit	Model			
		CK5225	CK5228	CK5231	CK5235
cutting diameter	mm	2500	2800	3100	3500
ble	mm	2250	2250	2830	2830
piece	mm	2000	2000	2000	2000
kpiece	ton	10	10	10	10
e turning	N.m	63000	63000	63000	63000
chining capacity	N	35000	35000	35000	35000
hining capacity	N	30000	30000	30000	30000
Left is manual, right is CNC					
rktable	step	4 steps,stepless in each range			
e	r/min	1-80	1-80	1-80	1-80
tool head	mm	1400	1400	1400	1400
ol head	mm	1000	1000	1000	1000
of tool head	mm/min	3000	3000	3000	3000
of cross rail	mm/min	350	350	350	350
	kw	AC55	AC55	AC55	AC55
Siemens / Fanuc					

Torno Vertical CNC Dupla Coluna



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Nossa Performance
faz A DIFERENÇA



Main Specifications	unit	Model			
		CK5240-1	CK5240-2	CK5240-3	CK5240-4
Max.vertical turret cutting diameter	mm	4000	4000	4000	4000
Diameter of worktable	mm	3150	3600	3600	3600
Max.height of workpiece	mm	2000	2000	2500	3150
Max.weight of workpiece	ton	10	32	32	50
Max. torque of table turning	N.m	63000	100000	100000	100000
Right tool head machining capacity	N	35000	35000	35000	50000
Left tool head machining capacity	N	30000	30000	30000	40000
Toolpost		Left is manual, right is CNC			
Speed steps of worktable (stepless)	step	4 steps	3 steps		2 steps
Speed of worktable	r/min	1-63	1-63	1-63	0.5-63
Horizontal travel of tool head	mm	2165	2165	2165	2165
Vertical travel of tool head	mm	1000	1000	1250	1600
Rapid travel speed of tool head	mm/min	3000	3000	3000	3000
Rapid travel speed of cross rail	mm/min	350	350	350	350
Main motor power	kw	AC55/DC75	AC55/DC75	AC55/DC75	AC55/DC75
CNC system		Siemens / Fanuc			

Torno Vertical CNC Dupla Coluna

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Main Specifications	unit	Model			
		CK5250-1	CK5250-2	CK5250-3	CK5250-4
Max.vertical turret cutting diameter	mm	5000	5000	5000	5000
Diameter of worktable	mm	4000	4000	4300	4500
Max.height of workpiece	mm	2500	3150	3150	4000
Max.weight of workpiece	ton	32	32	50	50
Max. torque of table turning	N.m	100000	100000	100000	100000
Right tool head machining capacity	N	35000	35000	50000	50000
Left tool head machining capacity	N	30000	30000	40000	40000
Toolpost		Left is manual, right is CNC			
Speed steps of worktable (stepless)	step	3 steps		2 steps	
Speed of worktable	r/min	0.5-50	0.5-50	0.5-50	0.5-50
Horizontal travel of tool head		2800	2800	2800	2800
Vertical travel of tool head	mm	1250	1600	1600	2000
Rapid travel speed of tool head	mm/min	4000	4000	4000	4000
Rapid travel speed of cross rail	mm/min	380	380	380	380
Main motor power	kw	DC75	DC75	DC75	DC75
CNC system		Siemens/Fanuc			

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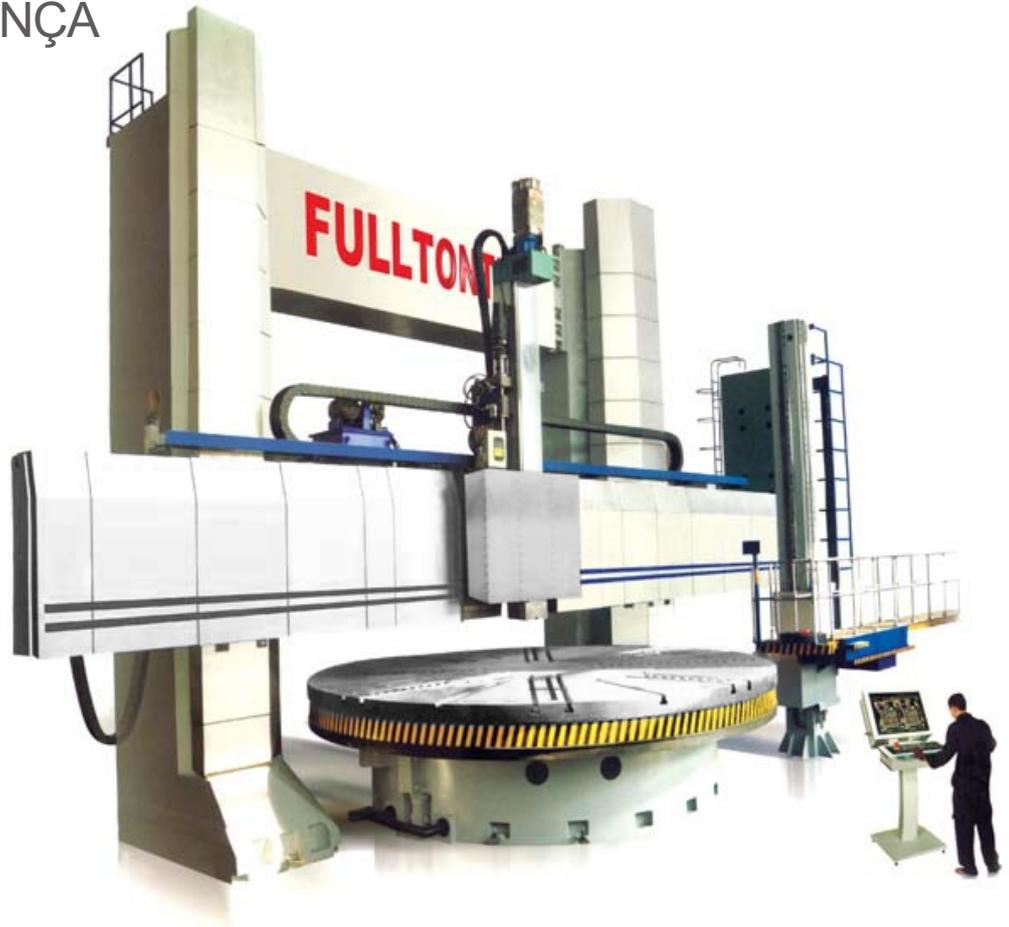
Main Specifications	unit	Model		
		CK5263-1	CK5263-2	CK5263-3
Max.vertical turret cutting diameter	mm	6300	6300	6300
Diameter of worktable	mm	4300	5000	5000
Max.height of workpiece	mm	3150	4000	4000
Max.weight of workpiece	ton	50	50	100
Max. torque of table turning	N.m	100000	100000	100000
Right tool head machining capacity	N	50000	50000	50000
Left tool head machining capacity	N	40000	40000	40000
Toolpost		Left is manual, right is CNC		
Speed steps of worktable (stepless)	step	2 steps		
Speed of worktable	r/min	0.5-40	0.5-40	0.5-40
Horizontal travel of tool head		3450	3450	3450
Vertical travel of tool head	mm	1600	2000	2000
Rapid travel speed of tool head	mm/min	4000	4000	4000
Rapid travel speed of cross rail	mm/min	380	380	380
Main motor power	kw	DC75	DC75	DC75
CNC system		Siemens/Fanuc		

Torno Vertical CNC Dupla Coluna

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CNC

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Main Specifications	unit	Model				
		CK5280	CK52100	CK52125	CK52160	
Max.machining diameter	mm	8000	10000	12500	16000	
Max.machining height	mm	4000	4000	5000	6000	
Diameter of worktable	mm	6300	7100	9000	10000	
Max. load of worktable	ton	150	200	300	400	
Turning speed of worktable	rpm	0.2-15	0.2-15	0.2-15	0.2-15	
Tool post travel-vertical	mm	2000	2000	2500	3000	
Tool post travel-Horizontal	mm	4300	5300	6700	8300	
Feedrate of toolpost	mm/min	0-3000	0-3000	0-3000	0-3000	
Cross rail travel (up/down)	mm	2000	2500	3500	4500	
Feedrate of ram-vertical	mm/min	0-3000	0-3000	0-3000	0-3000	
Dimension of ram section	mm	320*320	400*400	400*400	400*400	
Dimension of Tool shank section	mm	80*80	80*80	80*80	80*80	
Cross rail travel speed(up/down)	mm/min	300	300	300	300	
Main motor power	kw	75	90	110	120	
Overall dimension	Length	mm	11000	14000	16000	20000
	Width	mm	9000	10000	12000	13000
	Height	mm	8000	9000	10000	11000
CNC system		Siemens				

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CNC

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Main Specifications		unit	Model			
			CK5116M	CK5120M	CK5123M	CK5126M
Worktable diameter.		mm	1400	1800	2000	2250
Max. swing diameter		mm	1800	2000	2300	2600
Max. machining diameter		mm	1600	2000	2300	2600
Max. workpiece height		mm	1600	1600	1600	1600/1800
Max. worktable load		kg	8000	8000	8000	10000
Worktable speed	turning	rpm	3.15-315	3.15-315	2-120	2-80
	Indexing	rpm	0.0032-3.2	0.0032-3.2	0.0032-3.2	0.0032-2
Travel of X axis		mm	1200	1400	1400	1500
Travel of Z axis		mm	800	800	800	800
Vertical travel of cross rail		mm	1200	1200	990/1240	1240/1600/1800
Cross rail positioning step/distance		step/mm	13/100	13/100	10/100	10/100
Tool capacity		set	12 (milling tool) or 6 (turning tool)			
Max. tool weight		kg	20	20	20	50
ATC tool changing time		sec	30	30	30	30
Milling head speed		rpm	1-2000	1-2000	1-2000	1-2000
Max. output torque		N.m	600	600	600	600
Milling head motor		kw	16	16	16	16
Worktable motor (30 min.)		kw	AC28	AC28	AC32	AC45

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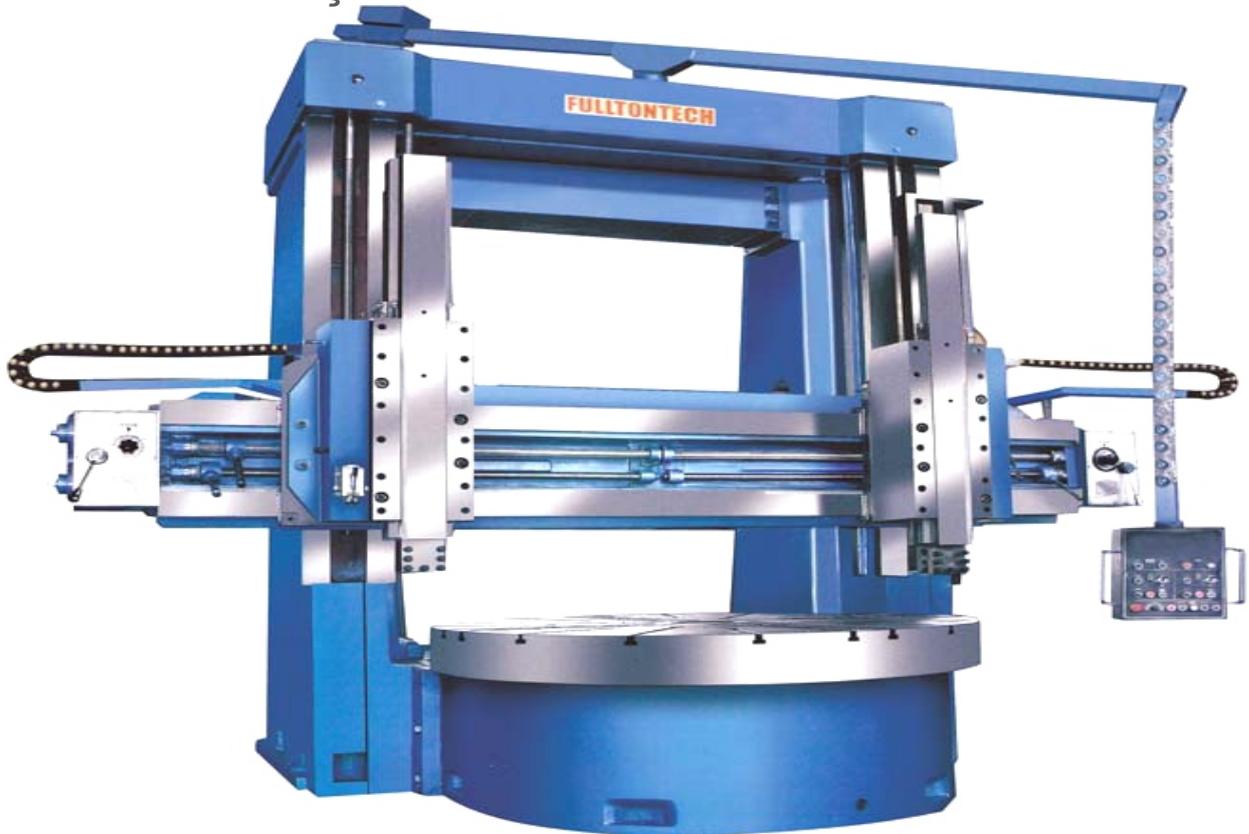
Main Specifications	unit	CK5280M	CK52100M
Max. Machining diameter		8000	10000
Max. Machining height	mm	4000	5000
Diameter of worktable		6300	7100
Max. Load of worktable (option: 400 ton for all)	ton	100	200
Worktable turning speed (stepless)		0--15	0--15
Ram quantity	set	One for turning and one for milling & drilling	
Vertical travel of the ram on tool post(Z axis)		2000	2500
Feed range of the ram on tool post(Z axis) (stepless)	mm/min	0--3000	0--3000
Feed range of the slide on tool post(X axis) (stepless)		0--3000	0--3000
Cross rail travel (up/down)	mm	3500	4500
Cross rail travel speed(up/down)	mm/min	300	300
Ram section dimension	mm	320*320	400*400
Tool shank section dimension	mm	80*80	80*80
Milling spindle turning speed	rpm	0-1250	0~800
Milling spindle taper	ISO	ISO50	ISO50
Milling spindle power	kw	37	37
Gantry travel speed(option)	mm/min	No	0--300
Main motor power	kw	88/127	110/130

Torno Vertical Convencional Dupla Coluna

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Main Specifications	unit	Model					
		C5225-1	C5225-2	C5225-3	C5225-4	C5228-1	C5228-2
Max.vertical turret cutting diameter	mm	2500	2500	2500	2500	2800	2800
Diameter of worktable	mm	2250	2250	2250	2250	2250	2250
Max.weight of workpiece	ton	10	10	10	16	10	10
Max.height of workpiece	mm	1600	2000	2500	2000	1600	2000
Speed of worktable	r/min	2-63	2-63	2-63	2-63	2-63	2-63
Speed steps of worktable	step	16	16	16	16	16	16
Max. torque of table turning	N.m	63000	63000	63000	63000	63000	63000
Horizontal travel of left tool head	mm	1400	1400	1400	1400	1600	1600
Horizontal travel of right tool head	mm	1400	1400	1400	1400	1600	1600
Vertical travel of left tool head	mm	800	1000	1250	1000	800	1000
Vertical travel of right tool head	mm	800	1000	1250	1000	800	1000
DRO(Digital Readout system)		two axes (option-three or four axes)					
Main motor power	kw	55	55	55	55	55	55
Machine weight	ton	33	34	35	37	38	40

Torno Vertical Convencional Dupla Coluna

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Main Specifications	unit	Model					
		C5231	C5235-1	C5235-2	C5240-1	C5240-2	C5240-3
Max.vertical turret cutting diameter	mm	3100	3500	3500	4000	4000	4000
Diameter of worktable	mm	2830	2830	3100	2250	2830	3150
Max.weight of workpiece	ton	10	10	32	10	10	16
Max.height of workpiece	mm	2000	2000	2000	2000	2000	2000
Speed of worktable	r/min	2-63	2-63	2-63	2-63	2-63	2-63
Speed steps of worktable	step	16	16	16	16	16	16
Max. torque of table turning	N.m	63000	63000	63000	63000	63000	63000
Horizontal travel of left tool head	mm	1720	1880	1880	2250	2150	2200
Horizontal travel of right tool head	mm	1720	1880	1880	2250	2150	2200
Vertical travel of left tool head	mm	1000	1000	1000	1000	1000	1000
Vertical travel of right tool head	mm	1000	1000	1000	1000	1000	1000
DRO(Digital Readout system)		two axes (option-three or four axes)					
Main motor power	kw	55	55	55	55	55	55
Machine weight	ton	41	43	46	50	50	52

Main Specifications	unit	Model					
		C5240-4	C5240-5	C5240-6	C5240-7	C5240-8	C5240-9
Max.vertical turret cutting diameter	mm	4000	4000	4000	4000	4000	4000
Diameter of worktable	mm	3600	3600	3600	3600	3600	3600
Max.weight of workpiece	ton	32	32	32	50	50	50
Max.height of workpiece	mm	2000	2500	3150	2500	3150	4000
Speed of worktable	r/min	0.5-63	0.5-63	0.5-63	0.5-63	0.5-63	0.5-63
Speed steps of worktable	step	3	3	3	2	2	2
Max. torque of table turning	N.m	63000	63000	63000	90000	90000	90000
Horizontal travel of left tool head	mm	2300	2300	2300	2200	2200	2200
Horizontal travel of right tool head	mm	2300	2300	2300	2200	2200	2200
Vertical travel of left tool head	mm	1000	1250	1600	1250	1600	2000
Vertical travel of right tool head	mm	1000	1250	1600	1250	1600	2000
DRO(Digital Readout system)		two axes (option-three or four axes)					
Main motor power	kw	55	55	55	DC75	DC75	DC75
Machine weight	ton	55	56	58	92	94	96

Torno Vertical Convencional Dupla Coluna

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faz A DIFERENÇA



Specifications	unit	Model			
		C5250-1	C5250-2	C5250-3	C5250-4
cutting diameter	mm	5000	5000	5000	5000
table	mm	4000	4000	4000	3600
workpiece	ton	32	32	32	50
workpiece	mm	2000	2500	3150	2500
speed	r/min	0.5-50	0.5-50	0.5-50	0.5-50
worktable	step	3	3	3	2
torque turning	N.m	63000	63000	63000	90000
width of left tool head	mm	2800	2800	2800	2800
width of right tool head	mm	2800	2800	2800	2800
width of left tool head	mm	1000	1250	1600	1250
width of right tool head	mm	1000	1250	1600	1250
Control System)		two axes (option-three or four axes)			
Power	kw	DC75	DC75	DC75	DC75
Weight	ton	66	68	72	80

Specifications	unit	Model				
		C5250-5	C5250-6	C5263-1	C5263-2	C5263-3
cutting diameter	mm	5000	5000	6300	6300	6300
table	mm	4300	4500	4300	4500	5700
workpiece	ton	50	50	50	50	100
workpiece	mm	3150	4000	3150	4000	4000
speed	r/min	0.5-50	0.5-50	2-40	2-40	2-40
worktable	step	2	2	2	2	2
torque turning	N.m	90000	90000	90000	90000	90000
width of left tool head	mm	2800	2800	3450	3450	3450
width of right tool head	mm	2800	2800	3450	3450	3450
width of left tool head	mm	1600	2000	1600	2000	2000
width of right tool head	mm	1600	2000	1600	2000	2000
Control System)		two axes (option-three or four axes)				
Power	kw	DC75	DC75	DC75	DC75	DC75
Weight	ton	82	86	118	127	132

Torno Vertical Convencional Uma Coluna



Side turret



Forth axis DRO

Main Specifications	unit	Model				
		C5112-1	C5112-2	C5116-1	C5116-2	C5116-3
Vertical turret cutting diameter(Max.)	mm	1250	1250	1600	1600	1600
Side turret cutting diameter(Max.)--option	mm	1100	1100	1400	1400	1400
Diameter of worktable	mm	1000	1000	1400	1400	1400
Max.height of workpiece	mm	1000	1200	1200	1400	1600
Max.weight of workpiece	ton	3.2	3.2	5	5	5
Speed range of worktable turning	r/min	6.3-200	6.3-200	5-160	5-160	5-160
Speed step of worktable turning	step	16	16	16	16	16
Vertical/side turret feeding range	mm/min	0.8-86	0.8-86	0.8-86	0.8-86	0.8-86
Vertical/side turret feeding step	step	12	12	12	12	12
Vertical turret travel (horizontal)	mm	700	700	915	915	915
Vertical turret travel (vertical)	mm	650	650	750/1000	750/1000	750/1000
Side turret travel (horizontal)-option	mm	630	630	630	630	630
Side turret travel (vertical)--option	mm	900	900	900	900	900
Cross rail travel	mm	650	650	650	850	1100
Digital Readout (DRO)		two axes (option-three or four axes)				
Power of main motor	kw	22	22	30	30	30
Net weight of machine	ton	8	8	12.8	14	14.8

Torno Vertical Convencional Uma Coluna



Perfect lubrication of worktable



Square and five-station tool post



Main Specifications	unit	Model					
		C5120-1	C5123-1	C5123-2	C5123-3	C5126-1	C5126-2
Vertical turret cutting diameter(Max.)	mm	2000	2300	2300	2300	2600	2600
Side turret cutting diameter(Max.)--option	mm	1800	2000	2000	2000	2400	2400
Diameter of worktable	mm	1800	2000	2000	2000	2250	2250
Max.height of workpiece	mm	1250	1400	1600	2000	1600	2000
Max.weight of workpiece	ton	8	8	8	8	10	10
Speed range of worktable turning	r/min	3.2-100	3.2-100	3.2-100	3.2-100	2-63	2-63
Speed step of worktable turning	step	16	16	16	16	16	16
Vertical/side turret feeding range	mm/min	0.8-86	0.8-86	0.8-86	0.8-86	0.8-86	0.8-86
Vertical/side turret feeding step	step	12	12	12	12	12	12
Vertical turret travel (horizontal)	mm	1115	1235	1235	1235	1500	1500
Vertical turret travel (vertical)	mm	750	750	800	1000	800	1000
Side turret travel (horizontal)-option	mm	630	630	630	630	630	630
Side turret travel (vertical)--option	mm	900	900	900	900	900	900
Cross rail travel	mm	890	990	1240	1640	1240	1640
Digital Readout (DRO)		two axes (option-three or four axes)					
Power of main motor	kw	30	30	30	30	37	37
Net weight of machine	ton	18.2	19	21.5	23	26	28