

# CNC Laboratory Configuration

## Specifications

Notes: Product pictures are only for reference, CEIEC may update them due to technical reasons.

<b>ITEM:</b>		<b>CNC MILLING MACHINE</b>		
<b>PART NUMBER:</b>		<b>0205010404</b>		
<b>BASIC FUNCTION:</b>				
<b>SPECIFICATIONS: (As per one set)</b>				
Item	Model	CEIEC XC650	CEIEC XC850	CEIEC XC1060
Worktable	Worktable size(mm)	420×800	500×1050	600×1300
	T-slot size(number of slot-slot width×pitch)(mm)	3-18×135	5-18×100	5-18×120
	Max. load(Kg)	600	600	800
Marching range	Travel for X/Y/Z axes(mm)	650/400/480	800/500/550	1000/600/600
	Distance from spindle-nose to table surface(mm)	80-560	105-655	180-780
	Distance from spindle center to column surface(mm)	480	550	655
Spindle	Spindle taper	BT40		
	Spindle speed(rpm)	60-8000		
	Motor power of spindle (kw)	5.5	5.5-7.5	7.5-11
Feed	Rapid traverse X,Y(m/min)	12	15	15
	Rapid traverse Z(m/min)	10	12	12
	Cutting federate(mm/min)	1-10000		
Positioning accuracy (JIS)	X-axis(mm)	0.022		
	Y-axis(mm)	0.022		
	Z-axis(mm)	0.022		
Repeatability accuracy (JIS)	X-axis(mm)	0.012		
	Y-axis(mm)	0.012		
	Z-axis(mm)	0.012		
Power requirement(KVA)		15	20	25
Weight of machine(Kg)		3500	4500	6500
Dimensions of machine (L×W×H) ( mm)		2400×2000×2300	2800×2200×2600	3400×2700×2800
CNC System		HNC/FANUC/Siemens		



<b>ITEM:</b>		<b>CNC FLAT BED LATHE</b>		
<b>PART NUMBER:</b>		<b>0205000216</b>		
<b>BASIC FUNCTION:</b>				
<b>SPECIFICATIONS: (As per one set)</b>				
Item	Unit	CEIEC CC6136	CEIEC CC6140	CEIEC CC6150
Max. swing over dia bed	mm	Φ360	Φ400	Φ530
Max.s wing over dia slide	mm	Φ180	Φ200	Φ290
Max. length of workpiece	mm	750	750/1000	750/1000
Spindle tape	MT	MT6	1:20	1:20
Guideway width	mm	320	320	400
Dia of spindle bore	mm	Φ52	Φ57	Φ82
Spindle nose		D-6	D-6	A2-8
Main motor power(change frequency)	kw	5.5	5.5	7.5
Spindle speed range	rpm	75-2500rpm	75-2500rpm	75-2500rpm
Diameter of tailstock quill	mm	Φ60	Φ55	Φ75
Travel of tailstock quill	mm	120	120	150
Taper of tailstock quill	MT	MT4	MT4	MT5
Max. travel X axis	mm	190	260	260
Max. travel Z axis	mm	750	750/1000	750/1000
Axis tool post rapid traverse	m/min	4/8	4/8	4/8
No. of tool stations	pcs	4	4	4
Size of tool shank	mm	25×25		
Work accuracy		IT6—IT7		
Weight of machine	kg	1800	1500/1800	2100/2300
Dimensions of machine(LWH)	mm	2032×710×1240	2032×800×1240/ 2238×800×1240	(2860/3260) ×1270×1750
CNC System		HNC\FANUC\Siemens		



<b>ITEM:</b>	<b>CNC TURNING CENTER</b>			
<b>PART NUMBER:</b>	<b>0205000217</b>			
<b>BASIC FUNCTION:</b>				
<b>SPECIFICATIONS: (As per one set)</b>				
Item	Unit	CEIEC HCC4536	CEIEC HCC4545	CEIEC HCC4550
Max. cutting length	mm	200	400	580
Max. cutting diameter(Various shafts)	mm	Φ220	Φ300	Φ320
Max. cutting diameter(disc)	mm	Φ360	Φ360	Φ480
Spindle nose		A2-6	A2-6	A2-8
X axis motor torque	Nm	10	10	27
Z axis motor torque	Nm	10	14	27
Chuck dimension	mm	Φ106.375	Φ106.375	Φ139.719
Spindle speed	rpm	3000	3000	2600
Main motor power	kw	5.5	7.5	15
Spindle inside diameter	mm	Φ50	Φ57	Φ87
Bar capacity	mm	Φ40	Φ45	Φ72
X/Z axis rapid traverse	m/min	8/10	8/10	8/10
Number of tool stations	pcs	8	8	8
Size of tool shank	mm	25×25	25×25	25×25
Quill travel	mm	No	Φ65	Φ100
Quill inside taper	M.T	-----	4#	5#
Travel of tailstock quill	mm	-----	80	120
Max travel of tailstock	mm	-----	650	670
Dimensions of machine(LWH)	mm	1770×900×1300	2320×1000×1530	2580×1040×1460
Weight of machine	kg	2500	3200	3500
CNC System	HNC\FANUC\Siemens			



<b>ITEM:</b>		<b>VERTICAL MACHINING CENTER</b>		
<b>PART NUMBER:</b>		<b>0205050101</b>		
<b>BASIC FUNCTION:</b>				
<b>SPECIFICATIONS: (As per one set)</b>				
Item	Model	CEIEC XHC650	CEIEC XHC850	CEIEC XHC1060
Worktable	Worktable size(mm)	420×800	500×1000	600×1300
	T-slot size(number of slot-slot width×pitch)(mm)	3-18×135	5-18×90	5-18×120
	Max. load(Kg)	600	600	800
Maching range	Travel for X/Y/Z axes(mm)	650/400/480	800/500/550	1000/600/600
	Distance from spindle-nose to table surface(mm)	80-560	105-655	180-780
	Distance from spindle centerto column surface(mm)	480	550	600
Spindle	Spindle taper	BT40		
	Spindle speed(rpm)	8000		
	Motor power of spindle(kw)	5.5	7.5	7.5-11
Feed	Rapid traverse X, Y (m/min)	12	15	15
	Rapid traverse Z(m/min)	10	12	12
	Cutting federate(mm/min)	1-10000		
Tool magazine	Tool magazine type	Disk tool magazine Hat tool magazine		
	Tool selection type	Close tool selection		
	Capacity(piece)	16 / 20 / 24		
Positioning accuracy (JIS)	X、Y-axis(mm)	0.015		
	Z-axis(mm)	0.015		
Repeatability accuracy (JIS)	X、Y-axis(mm)	0.01		
	Z-axis(mm)	0.01		
Guideway		X、Y、Z		
Weight	Weight of maching(Kg)	3800	4800	6800
Dimension (L×W×H)	Dimensions of machine (L×W×H) ( mm)	2400×2000×2300	2800×2200×2600	3400×2700×2800



CNC system	CNC System	HNC/FANUC/Siemens
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CHINA EDUCATIONAL INSTRUMENT & EQUIPMENT CORP.

<b>ITEM:</b>	<b>CNC COMPREHENSIVE EXPERIMENT DEVICE (LATHE)</b>	
<b>PART NUMBER:</b>	<b>0205060000</b>	
<b>BASIC FUNCTION:</b>		
<p>CEIEC-21ST CNC comprehensive experiment device is composed of CEIEC-21S CNC experiment device and 6126 CNC instrument lathe. It is the first selected devices for the training of CNC principles, programming, operating, and maintaining in China, and is especially effective for improving the student's ability to master programming methods, to design CNC systems, and to maintain CNC machines. The device includes the following components: HNC-21T CNC system, spindle unit, servo-drive unit, step-drive unit, I/O unit, and 6126 CNC instrument lathe.</p> <p>6126 CNC instrument lathe's X axis uses servo drive and servo motor to form a half closed-loop system, and its Z axis uses step driver and step motor to form an opened-loop system.</p>		
<b>SPECIFICATIONS: (As per one set)</b>		
Item	Unit	Parameter
Maximum swing over bed	mm	260
Max swing over carrier	mm	130
Maximum travel of X/Y axis	mm	170/350
Diameter of spindle bore	mm	35
Diameter taper of tail-stock		Mohs 5
Spindle speed range	r/min	120-2000
Spindle motor power	kw	1.1
X-axis servo motor	N.m	3.2
Z-axis step motor	N.m	8.5
X/Z position accuracy	mm	0.03/0.0032
X/Z repeat position accuracy	mm	0.012/0.013
Net weight of machine	kg	600
Dimension	mm	1300 x 780 x 1220



<b>ITEM:</b>	<b>CNC COMPREHENSIVE EXPERIMENT DEVICE (MILLING MACHINE)</b>	
<b>PART NUMBER:</b>	<b>0205060401</b>	
<b>BASIC FUNCTION:</b>		
<p>CEIEC-21SM CNC comprehensive experiment device is composed of CEIEC-21S CNC experiment device and 2016 CNC instrument milling machine. It is the first selected devices for the training of CNC principles, programming, operating, and maintaining in China, and is especially effective for improving the student's ability to master programming methods, to design CNC systems, and to maintain CNC machines. The device includes the following components: HNC-21M CNC system, spindle unit, servo-drive unit, step-drive unit, I/O unit, and 2016 CNC instrument lathe.</p> <p>2016 CNC instrument milling machine's X axis uses servo drive and servo motor to form a half closed-loop system; its Y axis uses a linear scale, servo drive and servo motor to form a closed-loop system; and its Z axis uses step driver and step motor to form an opened-loop system.</p>		
<b>SPECIFICATIONS: (As per one set)</b>		
Item	Unit	Parameter
Work area	mm	370 x 170
Maximum travel of X/Y/Z axis	mm	200/160/150
Load capacity	kg	70
Spindle motor power	kw	0.4
Spindle rotation speed	r/min	3000-2400
Tool holder	mm	2, 3, 4, 5,6
X/Y-axis maximum torque (servo drive)	N.m	16/16
Z-axis maximum torque (servo drive)	N.m	2.2
Maximum feed speed	Mm/min	3600
Position accuracy	mm	0.0032
Repeat position accuracy	mm	0.016
Net weight	kg	300
Dimension	mm	850 x 820 x 1440

