

Jinan Swinks Equipment CO.,LTD.

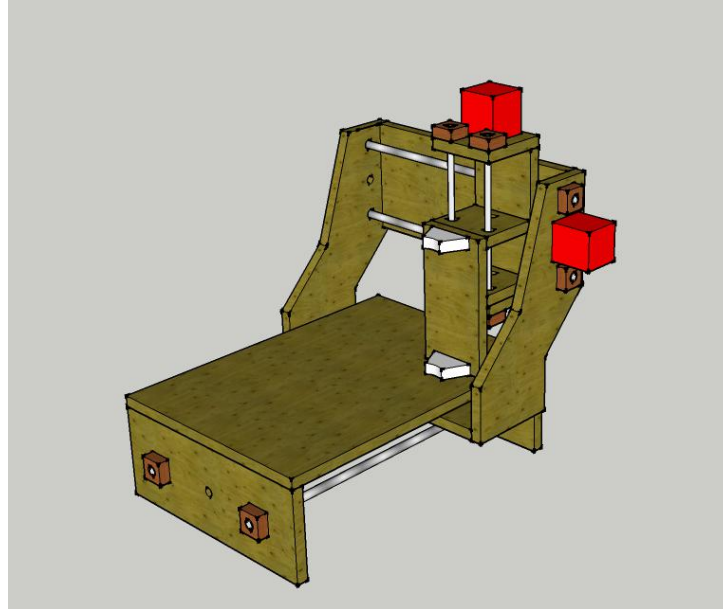
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DIY Your Own CNC Router



What is DIY ?

DIY is do it yourself, a term that focuses on people creating things for themselves without the aid of paid professionals. The term DIY is often used on social media such as YouTube.

What is CNC Router ?

A computer numerical control (CNC) router is a computer-controlled cutting machine related to the hand-held router used for cutting various hard materials, such as wood, composites, aluminium, steel, plastics, and foams. CNC routers can perform the tasks of many carpentry shop machines such as the panel saw, the spindle moulder, and the boring machine. They can also cut mortises and tenons.

DIY Parts instruction of I-X

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Part I Water Cooling Spindle



Model	power (kw)	voltage (V)	Diemeter and length (mm)	rpm	HZ	clamp	No. of bearings
GDZ-65-800A	0.8kw	220v	φ65×158	24000	400	ER11	2
GDZ-65-800A	0.8kw	220v	φ65×195	24000	400	ER11	4
GDZ-65-1.5	1.5kw	220v	φ65×210	24000	400	ER11	4
GDZ-80-1.5B	1.5kw	380v	φ80×188	24000	400	ER11	3
GDZ-80-1.5(4)	1.5kw	220v	φ80×208	24000	400	ER11	4
GDZ-80-1.5	1.5kw	220v	φ80×213	24000	400	ER16	3
GDZ-80-2.2B	2.2kw	220v	φ80×213	24000	400	ER20	3
GDZ-80-2.2B	2.2kw	380v	φ80×213	24000	400	ER20	3
GDZ-80-2.2(4)	2.2kw	220v	φ80×238	24000	400	ER20	4
GDZ-100-3.0	3.0kw	220v	φ100×220	24000	400	ER20	3
GDZ-100-3.0	3.0kw	380v	φ100×220	24000	400	ER20	3
GDZ-100-3.0B	3.0kw	380v	φ100×247	24000	400	ER20	4
GDZ-100-4.5	4.5kw	220v	φ100×260	24000	400	ER20	4
GDZ-100-4.5	4.5kw	380v	φ100×260	24000	400	ER20	4
GDZ-125-5.5	5.5kw	380v	φ125×298	24000	400	ER25	4



800w φ65 spindle length&short



1.5kw φ80 ER11 spindle

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2.2kw ϕ 80 ER20 spindle



3.0kw ϕ 100 ER20 spindle



5.5kw ϕ 125 ER25 spindle



5.5kw ϕ 125 ER25 spindle for Stone CNC

Swink

Part II Air Cooling Spindle-Round Type



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model	power (kw)	power	Specification	rpm	HZ	clamp	No. of bearings
GDZ-65F-800	0.8kw	220v	φ65×188	24000	400	ER11	4
GDZ-80F-1.5	1.5kw	220v	φ80×195	24000	400	ER11	4
GDZ-80F-2.2	2.2kw	220v	φ80×195	24000	400	ER16	4
GDZ-80F-2.2	2.2kw	220v	φ80×195	24000	400	ER20	4



800w φ65 ER11 spindle



1.5kw φ80 ER11 spindle



2.2kw φ80 ER20 Spindle

Air Cooling Spindle-Square Flange Type

model	power (kw)	power	Specification	rpm	HZ	clamp	No. of bearings
GDZ80×73-1.5	1.5kw	220v	80×73	24000	400	ER11	4
GDZ80×73-2.2	2.2kw	220v	80×73	24000	400	ER20	4

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GDZ80×73-2.2	2.2kw	380v	80×73	24000	400	ER20	4
GDZ105×102-3.5	3.5kw	220v	105×102	18000	300	ER20	4
GDZ105×102-3.5	3.5kw	380v	105×102	18000	300	ER20	4
GDZ120×103-4.5	4.5kw	220v	120×103	18000	300	ER32	4
GDZ120×103-4.5	4.5kw	380v	120×103	18000	300	ER32	4
GDZ120×103-6	6kw	380v	120×103	18000	300	ER32	4



1.5kw ER11 (with Flange) air cooling spindle



2.2kw ER20 (with Flange) air cooling spindle



3.5kw ER20 (with Flange) air cooling spindle



4.5kw ER32 (with Flange) air cooling spindle

Air Cooling Spindle-Square Standard Type

Model	Power (kw)	Voltage	Specification	Rpm	HZ	Clamp	No. of bearings
GDZ93×82-1.5	1.5kw	220v	93×82	18000	300	ER20	4

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GDZ93×82-1.5	1.5kw	380v	93×82	18000	300	ER20	4
GDZ93×82-2.2	2.2kw	220v	93×82	18000	300	ER25	4
GDZ93×82-2.2	2.2kw	380v	93×82	18000	300	ER25	4
GDZ93×82-3.5	3.5kw	220v	93×82	18000	300	ER25	4
GDZ93×82-3.5	3.5kw	220v	93×82	18000	300	ER25	4
GDZ120×103-4.5	4.5kw	220v	120×103	18000	300	ER32	4
GDZ120×103-4.5	4.5kw	380v	120×103	18000	300	ER32	4
GDZ120×103-6	6kw	220v	120×103	18000	300	ER32	4
GDZ120×103-6	6kw	380v	120×103	18000	300	ER32	4



1.5kw ER20 (Standard) air cooling spindle



2.2kw ER25 (Standard) air cooling spindle



3.5kw ER25 (Standard) air cooling spindle



4.5kw ER32 (Standard) air cooling spindle

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Part III Frequency Inverter

Best Brand

power	in put	out put	Out Put HZ	phase	size L*W*H
1.5kw	220v	0-220v	0-1000HZ	3	150×105×120
1.5kw	380v	0-380v	0-1000HZ	3	150×105×120
2.2kw	220v	0-220v	0-1000HZ	3	200×135×148
3.0kw	220v	0-220v	0-1000HZ	3	200×135×148
4.0kw	220v	0-220v	0-1000HZ	3	200×135×148
4.0kw	380v	0-380v	0-1000HZ	3	200×135×148
5.5kw	220v	0-220v	0-1000HZ	3	200×135×148
5.5kw	380v	0-380v	0-1000HZ	3	200×135×148



Fuling Brand

power	in put	out put	out HZ	phase	size L*W*H
1.5kw	220v	0-220v	0-1000HZ	3	170×125×142
2.2kw	220v	0-220v	0-1000HZ	3	250×154×155
3.7kw	380v	0-380v	0-1000HZ	3	250×154×155
5.5kw	220v	0-220v	0-1000HZ	3	250×154×155
5.5kw	380v	0-380v	0-1000HZ	3	250×154×155
7.5kw	380v	0-380v	0-1000HZ	3	322×205×193
11kw	380v	0-380v	0-1000HZ	3	322×205×193

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Part IV Step Driver

brand	mode	in put	out put	price
leadshine	DM542-05	DC20v-50v	DC40v	33
leadshine	DMA860H	A（D）C18v-80v	AC70v	48
leadshine	ND2278	AC80-220v	AC110v	116
JMC	2MA860H	AC50-80v/DC70-110v	AC70v	38
JMC	2M2260	AC80-220v	AC110v	96



Leadshine 542



leadshine DMA860H

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leadshineND2278



JMC2DM860



JMC 2MA860H



JMC2M2260

Part V Step Motors

Model	specifications	out diameter	phase	output torque （NM）
57BYG-311	57mm×57mm×76mm	6.35mm	two-phase four-wire	3NM
57BYG-311	57mm×57mm×76mm	8mm	two-phase four-wire	3NM
86BYG-450A	86mm×86mm×76mm	12.7mm	two-phase four-wire	6NM
86BYG-450A	86mm×86mm×76mm	14mm	two-phase four-wire	6NM
86BYG-450B	86mm×86mm×112mm	12.7mm	two-phase four-wire	8NM

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86BYG-450B	86mm×86mm×112mm	14mm	two-phase four-wire	8NM
86BYG-450C	86mm×86mm×146mm	12.7mm	two-phase four-wire	10NM
86BYG-450C	86mm×86mm×146mm	14mm	two-phase four-wire	10NM



311Model



450A Model



450B Model



450C model

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Part VII Hybird Easy Servo

driver model	motor type	brand	output tor	output torque (NM)	Motor output shaft neck.
HBS86H	86HSM80-E1	leadshine	6NM	AC70v	14mm
HBS86H	86HSM85-E1	leadshine	8NM	AC70v	14mm
HBS758S	86HSM80-E1	leadshine	6NM	AC70v	14mm
HBS758S	86HSM85-E1	leadshine	8NM	AC70v	14mm
HBS1108s	86HSM85H-E1	leadshine	10nm	AC110V	14mm
HBS2206s	863HSM80H-E1	leadshine	10NM	AC220v	14mm
HBS2206s	863HSM100H-E1	leadshine	12NM	AC220v	14mm



HBS86H

HBS758S

HBS1108S

HBS2206S



863HSM100H-E1

863HSM100H-E1

86HSM85-E1

86HSM80-E1

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Part VII Switch Power Supply

model	power (kw)	output	input	output patch
24v-75w	75w	AC220v	DC24v	1
24v-120w	120w	AC220v	DC24v	2
24v-200w	200w	AC220v	DC24v	3
40v-400w	400w	AC220v	DC40v	3
48v-600w	600w	AC220v	DC48v	4
48v-800w	800w	AC220v	DC48v	4



Part VIII control system

Brand	Model	Axis
Richauto	A11	3 axis
	A15	4 spindle changing
	A18	4 axis
Weihong Nc.studio	53C	3 axis
	53B	3 axis
	63A	4 spindle changing
	95A	double Z axis
	98A	4 axis
	NK105G2	3 axis
	NK105G3 normal	3 axis
	NK105G3 ATC	3 axis

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A11



A15



A18



NK105G2



NK05G3



Nk105G3ATC

Part VIII Dust collector

Power	HZ	voltage	No. of bags
2.2kw	50hz	220v	1
2.2kw	50hz	380v	1
3kw	50hz	380v	2
4kw	50hz	380v	2
5.5kw	50hz	380v	2
7.5kw	50hz	380v	2



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Part IX Vacuum Pump

	power	voltage	price
water pump	5.5kw	380v	367
	7.5kw	380v	450
air pump	5.5kw	380v	565
	7.5kw	380v	615



Water pump



air pump

Part X Others



Transformer



Cable chain

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Cables



Water pump



Spindle holders



Changable spindle holders



Tool clamps



Limit sensor

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Tool holders	Dust hood
	
Dust cover	Water pipe

Should you have other requirements of part of cnc router ,pls feel free to contact with us ASAP

BR Swinks