



China
Zhong Hua Jiang
CNC Router Machine
CNC Spindle Motor

常州市华江电器有限公司
CHANGZHOU HUAJIANG ELECTRICAL CO., LTD

公司简介

COMPANY PROFILE

Add: No.379-2, hengyu road, henglin town, changzhou, Jiangsu, China

Email: zhonghuajiang@huajiang.cn

Website: www.zhonghuajiangspindle.com



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本公司成立于 2000 年，专业生产数控雕刻机、数控主轴电机和变频器。我们是最早制造风冷和水冷主轴电机的生产商，特别是风冷主轴系列，我们已于 2007 年将其注册为专利。为了提高公司知名度和强化竞争力，开拓更多市场，我们于 2018 年创立了“Zhong Hua Jiang”品牌。

我们在行业内以高品质的产品受到一致好评。我们的产品广泛出口到美国、欧洲、东南亚等地的领先公司和世界 500 强公司。

华江拥有强大的研发团队，所有产品均处于行业领先地位。我们的另一大优势是根据客户不同的要求和应用定制产品。

我们的销售额以每年 10-15% 的速度持续增长。凭借一流的产品质量、合理的价格、卓越可靠的信誉、专业和高效的服务，华江多年来一直占据市场主导地位。

欢迎随时与我们联系，让我们致力于更好更强！

Huajiang was founded in 2000, specializing in the production of CNC router machine, CNC spindle motor and VFD(Inverter). We are the pioneer in manufacturing water cooled and air cooled spindle motor, especially air cooled spindle series, we have registered it as a patent in 2007.

In order to improve the popularity of our company, strengthen our competitiveness, explore and develop more markets, we established Brand "Zhong Hua Jiang" on 2018.

We are well known as manufacturer of top quality products. Our products are widely exported to leading companies and Fortune 500 companies in USA, Europe, east and south Asia, etc.

Huajiang has a strong research and development team, all products are in a leading position in the industry. We are proficient in customizing products according to various requests and applications.

Our sales volume continuously increases at the rate of 10-15% per year. With first class quality products, reasonable price, excellent and reliable reputation, professional and close service, Huajiang has been dominating the market for many years.

Whatever you have any inquiry or idea for CNC products, pls no hesitate to contact us, let's commit to it and make it more power!



荣誉证书

CERTIFICATE OF HONOR





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6040Z 3 轴
Three axis

技术参数 Technical Parameters

最大工作行程	XYZ=400*570*75mm	Max. stroke	XYZ=400*570*75mm
可加工材料厚度	≤ 100mm	Machinable material thickness	≤ 100mm
外形尺寸大小	750*570*390mm	Outline dimension	750*570*390mm
框架材料	6061-T5 铝合金	Frame material	6061-T5 aluminium alloy
轨道式	镀铬轴 + 线性轴承	Rail type	Chrome plated shaft + linear bearing
螺旋式	滚珠螺杆 , 直径 16mm, 螺纹螺距 5mm	Screw type	Ball screw, diameter 16mm, Thread pitch 5mm
机械分辨率解析度	XYZ- 轴: 0.0025mm/step	Mechanical resolution	XYZ-shaft: 0.0025mm/step
定位精度	0.05mm	Positioning accuracy	0.05mm
主轴电机	变频电主轴 , 0.8KW	Spindle motor	Frequency conversion spindle motor, 0.8KW
转速	24000rpm/min	RPM	24000rpm/min
夹头类型	ER11(3.175mm, 6mm)	Chuck type	ER11 (3.175mm, 6mm)
XYZ 电动机	步进电机 JK57HS76-4204B-01AF	XYZ motor	Stepper motor JK57HS76-4204B-01AF
步进驱动	高性能 , 集成驱动	Stepper drive	High performance, integrated drive
进给速率	2000mm/min	Feed rate	2000mm/min
通讯接口	USB2.0/25 针并口	Communication interface	USB2.0/25 Needle parallel
系统需求	WIN-XP 或 WIN-7 操作系统	System requirement	WIN-XP or WIN-7
指令码	G code/.nc/.ncc/.tab/.txt	Order code	G code/.nc/.ncc/.tab/.txt
电压	输入 85V-240VAC (400HZ)	Voltage	Input 85V-240VAC (400HZ)
操作环境	温度: 5°C -40°C ; 湿度: 35%-80%	Operation environment	Temp.: 5°C -40°C ; Humidity: 35%-80%
外包装尺寸大小	2.3kg (86*62*48)	Package weight&dimension	2.3kg (86*62*48)
重量	45.8kg (包括所有包装)	Weight	45.8kg (Including package)



// 6040Z 4 轴
Four axis



技术参数 Technical Parameters

最大工作行程	XYZ=400*570*75mm	Max. stroke	XYZ=400*570*75mm
可加工材料厚度	≤ 100mm	Machinable material thickness	≤ 100mm
外形尺寸大小	750*570*390mm	Outline dimension	750*570*390mm
框架材料	6061-T5 铝合金	Frame material	6061-T5 aluminium alloy
轨道式	镀铬轴 + 线性轴承	Rail type	Chrome plated shaft + linear bearing
螺旋式	滚珠螺杆 , 直径 16mm, 螺纹螺距 5mm	Screw type	Ball screw, diameter 16mm, Thread pitch 5mm
机械分辨率解析度	XYZ- 轴: 0.0025mm/step	Mechanical resolution	XYZ-shaft: 0.0025mm/step
定位精度	0.05mm	Positioning accuracy	0.05mm
主轴电机	变频电主轴 , 0.8KW	Spindle motor	Frequency conversion spindle motor, 0.8KW
转速	24000rpm/min	RPM	24000rpm/min
夹头类型	ER11 (3.175mm, 6mm)	Chuck type	ER11 (3.175mm, 6mm)
XYZ 电动机	步进电机 JK57HS76-4204B-01AF	XYZ motor	Stepper motor JK57HS76-4204B-01AF
步进驱动	高性能 , 集成驱动	Stepper drive	High performance, integrated drive
进给速率	2000mm/min	Feed rate	2000mm/min
通讯接口	USB2.0/25 针并口	Communication interface	USB2.0/25 Needle parallel
系统需求	WIN-XP 或 WIN-7 操作系统	System requirement	WIN-XP or WIN-7
指令码	G code/.nc/.ncc/.tab/.txt	Order code	G code/.nc/.ncc/.tab/.txt
电压	输入 85V-240VAC (400HZ)	Voltage	Input 85V-240VAC (400HZ)
操作环境	温度: 5°C -40°C ; 湿度: 35%-80%	Operation environment	Temp.: 5°C -40°C ; Humidity: 35%-80%
外包装尺寸大小	2.3kg (86*62*48)	Package weight&dimension	2.3kg (86*62*48)
重量	45.8kg (包括所有包装)	Weight	45.8kg (Including package)



3040T 3轴
Three axis



技术参数 Technical Parameters

最大工作行程	XYZ=290*380*60mm	Max. stroke	XYZ=290*380*60mm
可加工材料厚度	≤ 70mm	Machinable material thickness	≤ 70mm
外形尺寸大小	525*400*290mm	Outline dimension	525*400*290mm
框架材料	6061-T5 铝合金	Frame material	6061-T5 aluminium alloy
轨道式	镀铬轴 + 线性轴承	Rail type	Chrome plated shaft + linear bearing
螺旋式	T型螺杆, 直径 12mm, 螺纹螺距 2mm	Screw type	T type screw, diameter 12mm, Thread pitch 2mm
螺旋式	滚珠螺杆, 直径 12mm, 螺纹螺距 4mm	Screw type	Ball screw, diameter 12mm, Thread pitch 4mm
机械分辨率解析度	XYZ- 轴: 0.0025mm/step	Mechanical resolution	XYZ-shaft: 0.0025mm/step
定位精度	0.05mm	Positioning accuracy	0.05mm
主轴电机	300W 直流电主轴	Spindle motor	300W DC spindle motor
转速	11000rpm/min	RPM	11000rpm/min
夹头类型	ER11 (3.175mm, 6mm)	Chuck type	ER11 (3.175mm, 6mm)
XYZ 电动机	步进电机 JK57HS41-2004XB-01AF	XYZ motor	Stepper motor JK57HS41-2004XB-01AF
步进驱动	高性能, 集成驱动	Stepper drive	High performance, integrated drive
进给速率	1500mm/min	Feed rate	1500mm/min
通讯接口	USB2.0/25 针并口	Communication interface	USB2.0/25 Needle parallel
系统需求	WIN-XP 或 WIN-7 操作系统	System requirement	WIN-XP or WIN-7
指令码	G code/.nc/.ncc/.tab/.txt	Order code	G code/.nc/.ncc/.tab/.txt
电压	输入 85V-240VAC (400HZ)	Voltage	Input 85V-240VAC (400HZ)
操作环境	温度: 5°C -40°C ; 湿度: 35%-80%	Operation environment	Temp.: 5°C -40°C ; Humidity: 35%-80%
外包装尺寸大小	1.3kg (61.5*48.5*38.5)	Package weight&dimension	1.3kg (61.5*48.5*38.5)
重量	25.5kg (包括所有包装)	Weight	25.5kg (Including package)

雕刻机 CNC Router Machine

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD



// 3040T 4轴
Four axis



技术参数 Technical Parameters

最大工作行程	XYZ=290*380*60mm	Max. stroke	XYZ=290*380*60mm
可加工材料厚度	≤ 70mm	Machinable material thickness	≤ 70mm
外形尺寸大小	525*400*290mm	Outline dimension	525*400*290mm
框架材料	6061-T5 铝合金	Frame material	6061-T5 aluminium alloy
轨道式	镀铬轴 + 线性轴承	Rail type	Chrome plated shaft + linear bearing
螺旋式	T 型螺杆 , 直径 12mm, 螺纹螺距 2mm	Screw type	T type screw, diameter 12mm, Thread pitch 2mm
螺旋式	滚珠螺杆 , 直径 12mm, 螺纹螺距 4mm	Screw type	Ball screw, diameter 12mm, Thread pitch 4mm
机械分辨率解析度	XYZ- 轴: 0.0025mm/step	Mechanical resolution	XYZ-shaft: 0.0025mm/step
定位精度	0.05mm	Positioning accuracy	0.05mm
主轴电机	300W 直流电主轴	Spindle motor	300W DC spindle motor
转速	11000rpm/min	RPM	11000rpm/min
夹头类型	ER11 (3.175mm, 6mm)	Chuck type	ER11 (3.175mm, 6mm)
XYZ 电动机	步进电机 JK57HS41-2004XB-01AF	XYZ motor	Stepper motor JK57HS41-2004XB-01AF
步进驱动	高性能 , 集成驱动	Stepper drive	High performance, integrated drive
进给速率	1500mm/min	Feed rate	1500mm/min
通讯接口	USB2.0/25 针并口	Communication interface	USB2.0/25 Needle parallel
系统需求	WIN-XP 或 WIN-7 操作系统	System requirement	WIN-XP or WIN-7
指令码	G code/.nc/.ncc/.tab/.txt	Order code	G code/.nc/.ncc/.tab/.txt
电压	输入 85V-240VAC (400HZ)	Voltage	Input 85V-240VAC (400HZ)
操作环境	温度: 5°C -40°C ; 湿度: 35%-80%	Operation environment	Temp.: 5°C -40°C ; Humidity: 35%-80%
外包装尺寸大小	1.3kg (61.5*48.5*38.5)	Package weight&dimension	1.3kg (61.5*48.5*38.5)
重量	25.5kg (包括所有包装)	Weight	25.5kg (Including package)



// 3020T 3轴
Three axis



技术参数 Technical Parameters

最大工作行程	XYZ=210*300*60mm	Max. stroke	XYZ=210*300*60mm
可加工材料厚度	≤ 70mm	Machinable material thickness	≤ 70mm
外形尺寸大小	440*310*290mm	Outline dimension	440*310*290mm
框架材料	6061-T5 铝合金	Frame material	6061-T5 aluminium alloy
轨道式	镀铬轴 + 线性轴承	Rail type	Chrome plated shaft + linear bearing
螺旋式	T型螺杆, 直径 12mm, 螺纹螺距 2mm	Screw type	T type screw, diameter 12mm, Thread pitch 2mm
螺旋式	滚珠螺杆, 直径 12mm, 螺纹螺距 4mm	Screw type	Ball screw, diameter 12mm, Thread pitch 4mm
机械分辨率解析度	XYZ- 轴: 0.0025mm/step	Mechanical resolution	XYZ-shaft: 0.0025mm/step
定位精度	0.05mm	Positioning accuracy	0.05mm
主轴电机	300W 直流电主轴	Spindle motor	300W DC spindle motor
转速	11000rpm/min	RPM	11000rpm/min
夹头类型	ER11 (3.175mm, 6mm)	Chuck type	ER11 (3.175mm, 6mm)
XYZ 电动机	步进电机 JK57HS41-2004XB-01AF	XYZ motor	Stepper motor JK57HS41-2004XB-01AF
步进驱动	高性能, 集成驱动	Stepper drive	High performance, integrated drive
进给速率	1500mm/min	Feed rate	1500mm/min
通讯接口	USB2.0/25 针并口	Communication interface	USB2.0/25 Needle parallel
系统需求	WIN-XP 或 WIN-7 操作系统	System requirement	WIN-Xp or WIN-7
指令码	G code/.nc/.ncc/.tab/.txt	Order code	G code/.nc/.ncc/.tab/.txt
电压	输入 85V-240VAC (400HZ)	Voltage	Input 85V-240VAC (400HZ)
操作环境	温度: 5°C -40°C ; 湿度: 35%-80%	Operation environment	Temp.: 5°C -40°C ; Humidity: 35%-80%
外包装尺寸大小	1.05kg (51*40*38.5)	Package weight&dimension	1.05kg (51*40*38.5)
重量	22kg (包括所有包装)	Weight	22kg (Including package)



3020T 4轴
Four axis

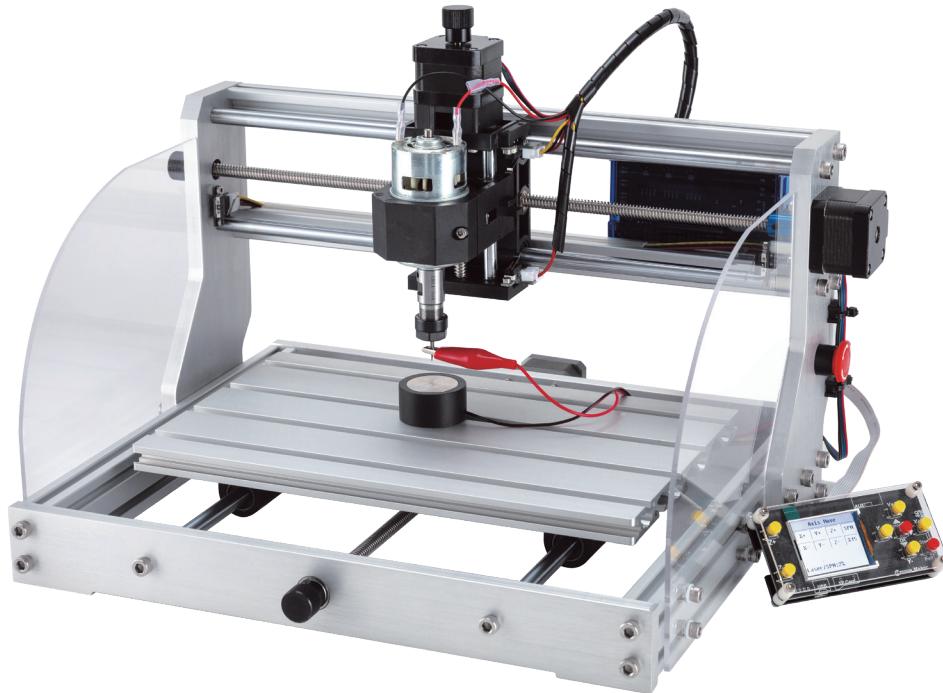


技术参数 Technical Parameters

最大工作行程	XYZ=210*300*60mm	Max. stroke	XYZ=210*300*60mm
可加工材料厚度	≤ 70mm	Machinable material thickness	≤ 70mm
外形尺寸大小	440*310*290mm	Outline dimension	440*310*290mm
框架材料	6061-T5 铝合金	Frame material	6061-T5 aluminium alloy
轨道式	镀铬轴 + 线性轴承	Rail type	Chrome plated shaft + linear bearing
螺旋式	T 型螺杆 , 直径 12mm, 螺纹螺距 2mm	Screw type	T type screw, diameter 12mm, Thread pitch 2mm
螺旋式	滚珠螺杆 , 直径 12mm, 螺纹螺距 4mm	Screw type	Ball screw, diameter 12mm, Thread pitch 4mm
机械分辨率解析度	XYZ- 轴: 0.0025mm/step	Mechanical resolution	XYZ-shaft: 0.0025mm/step
定位精度	0.05mm	Positioning accuracy	0.05mm
主轴电机	300W 直流电主轴	Spindle motor	300W DC spindle motor
转速	11000rpm/min	RPM	11000rpm/min
夹头类型	ER11 (3.175mm, 6mm)	Chuck type	ER11 (3.175mm, 6mm)
XYZ 电动机	步进电机 JK57HS41-2004XB-01AF	XYZ motor	Stepper motor JK57HS41-2004XB-01AF
步进驱动	高性能 , 集成驱动	Stepper drive	High performance, integrated drive
进给速率	1500mm/min	Feed rate	1500mm/min
通讯接口	USB2.0/25 针并口	Communication interface	USB2.0/25 Needle parallel
系统需求	WIN-XP 或 WIN-7 操作系统	System requirement	WIN-Xp or WIN-7
指令码	G code/.nc/.ncc/.tab/.txt	Order code	G code/.nc/.ncc/.tab/.txt
电压	输入 85V-240VAC (400HZ)	Voltage	Input 85V-240VAC (400HZ)
操作环境	温度: 5°C -40°C ; 湿度: 35%-80%	Operation environment	Temp.: 5°C -40°C ; Humidity: 35%-80%
外包装尺寸大小	1.05kg (51*40*38.5)	Package weight&dimension	1.05kg (51*40*38.5)
重量	22kg (包括所有包装)	Weight	22kg (Including package)



3018 3 轴 Three axis



技术参数 Technical Parameters

最大工作行程	270mm*155mm*45mm	Max. stroke	270mm*155mm*45mm
可加工材料厚度	45mm	Machinable material thickness	45mm
外形尺寸大小	450mm*370mm*290mm	Outline dimension	450mm*370mm*290mm
框架材料	铝合金	Frame material	Aluminium alloy
轨道式	镀铬轴 + 线性轴承	Rail type	Chrome plated shaft + linear bearing
螺旋式	T型螺杆 直径 8mm 螺距 2mm	Screw type	T type screw, diameter 8mm, Thread pitch 2mm
机械分辨率解析度	XYZ 轴: 0.005mm/step	Mechanical resolution	XYZ-shaft: 0.005mm/step
定位精度	0.05mm	Positioning accuracy	0.05mm
主轴电机	775 主轴电机 12-24V	Spindle motor	775 Spindle motor 12-24V
转速	10000rpm/min	RPM	10000rpm/min
夹头类型	ER11	Chuck type	ER11
XYZ 电动机	步进电机 2.0A 4.5N	XYZ motor	Stepper motor 2.0A 4.5N
步进驱动	高性能 集成驱动	Stepper drive	High performance, integrated drive
进给速率	2000mm/min	Feed rate	2000mm/min
通讯接口	USB2.0	Communication interface	USB2.0
系统需求	WIN-XP、WIN-7、WIN-10	System requirement	WIN-XP、WIN-7、WIN-10
指令码	G code/.nc,.ncc,.ngc,.tap,.cnc.	Order code	G code/.nc,.ncc,.ngc,.tap,.cnc.
电压	输入 110V-220V	Voltage	Input 110V-220V
操作环境	温度: 5-40° C; 湿度: 35%-80%	Operation environment	Temp.: 5°C -40°C ; Humidity: 35%-80%
外包装尺寸大小	520mm*450mm*280mm	Package weight&dimension	520mm*450mm*280mm
重量	10KG	Weight	10KG

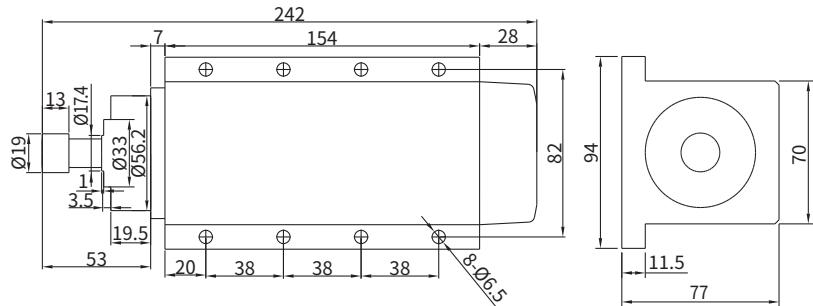
风冷电机 Air Cooled Spindle Motor

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD



// 0.8KW ER11 风冷 方型带边

0.8 KW ER11 Air Cooled Square Belt

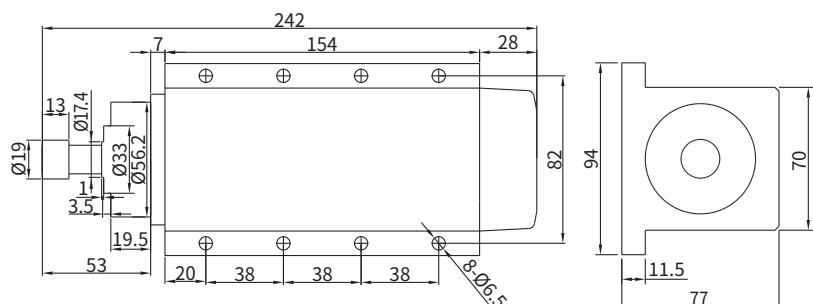


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
0.8KW ER11 风冷 方型带边	1-24000	0.8	110/220	6
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	3	ER11Φ1 - Φ7	风冷 Air - cooled	雕刻机 Engraving Machines

// 1.5KW ER11 风冷 方型带边

1.5 KW ER11 Air Cooled Square Belt



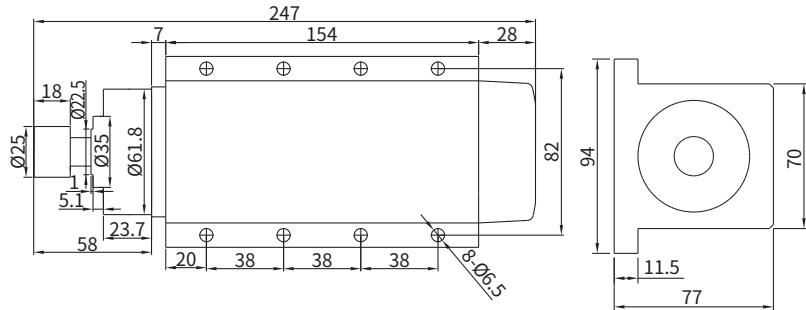
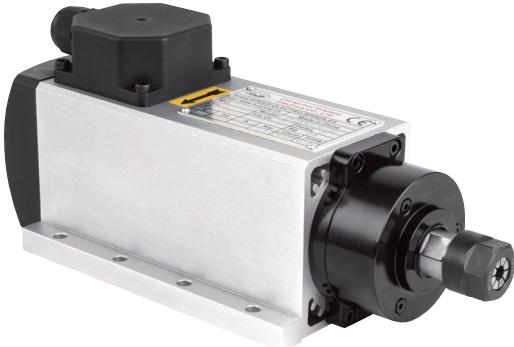
技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
1.5KW ER11 风冷 方型带边	1-24000	1.5	110/220	8
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	3.6	ER11Φ1 - Φ7	风冷 Air - cooled	雕刻机 Engraving Machines



1.5KW ER16 风冷 方型带边

1.5KW ER16 Air Cooled Square Belt

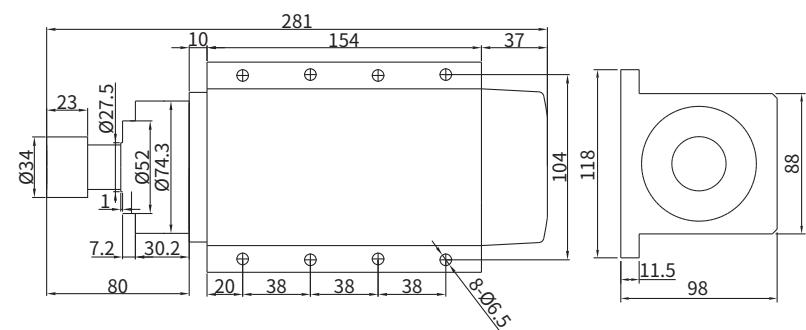


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
1.5KW ER16 风冷 方型带边	1-24000	1.5	110/220	8
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	4.3	ER16Φ1 - Φ10	风冷 Air - cooled	雕刻机 Engraving Machines

风冷 方型带边

2.2KW ER20 Air Cooled Square Belt



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
2.2KW ER20 风冷 方型带边	1-24000	2.2	110/220	10
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	7.1	ER20Φ1 - Φ13	风冷 Air - cooled	雕刻机 Engraving Machines

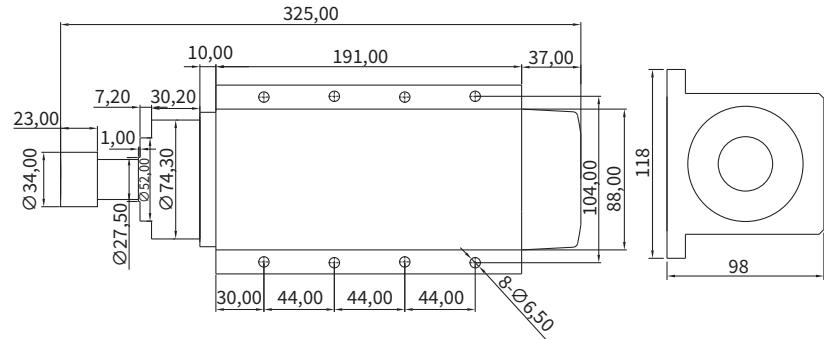
风冷电机 Air Cooled Spindle Motor

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD



// 3KW ER20 风冷 方型带边

3KW ER20 Air Cooled Square Belt

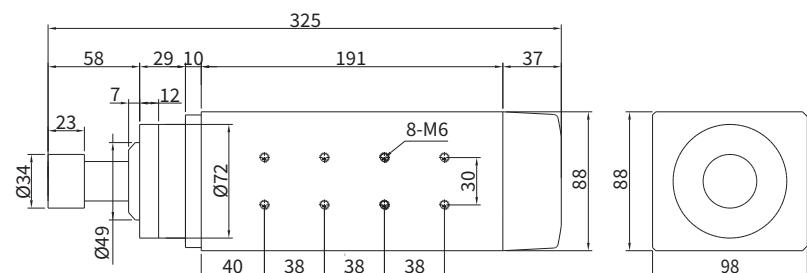


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
3KW ER20 风冷 方型带边	1-18000/24000	3	220/380	10
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300/400	7.8	ER20Φ1 - Φ13	风冷 Air - cooled	雕刻机 Engraving Machines

// 3KW ER20 风冷 方型

3KW ER20 Air Cooled Square



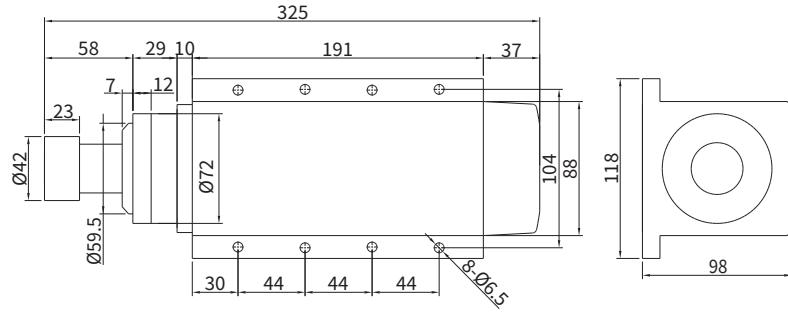
技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
3KW ER20 风冷 方型	1-18000/24000	3	220/380	10
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300/400	9	ER20Φ1 - Φ13	风冷 Air - cooled	雕刻机 Engraving Machines



4KW ER25 风冷 方型带边

4KW ER25 Air Cooled Square Belt

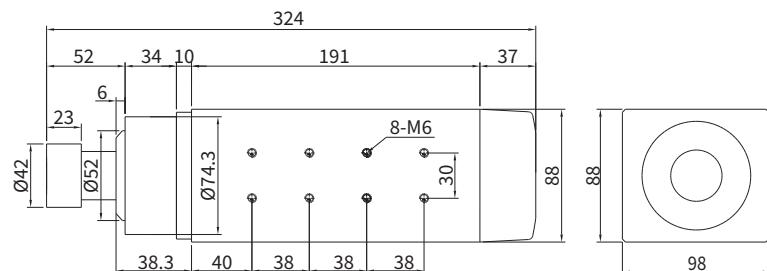


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
4KW ER25 风冷 方型带边	1-18000	4	220/380	10
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	9	ER25Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

4KW ER25 风冷 方型

4KW ER25 Air Cooled Square



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
4KW ER25 风冷 方型	1-18000	4	220/380	10
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	8.8	ER25Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

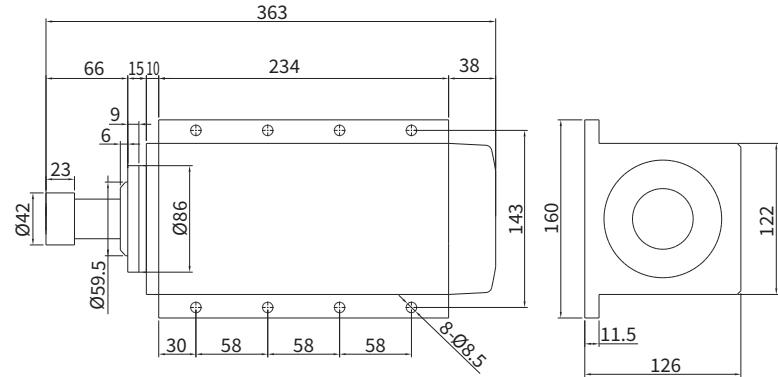
风冷电机 Air Cooled Spindle Motor

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD



// 4.5KW ER25 风冷 方型带边

4.5KW ER25 Air Cooled Square Belt

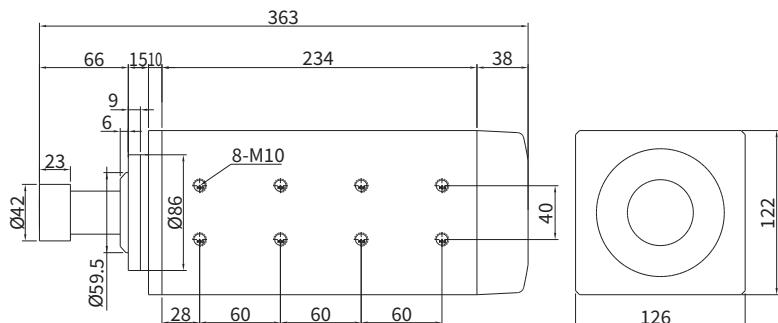


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
4.5KW ER25 风冷 方型带边	1-18000	4.5	220/380	12
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	10.8	ER25Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

// 4.5KW ER25 风冷 方型

4.5KW ER25 Air Cooled Square



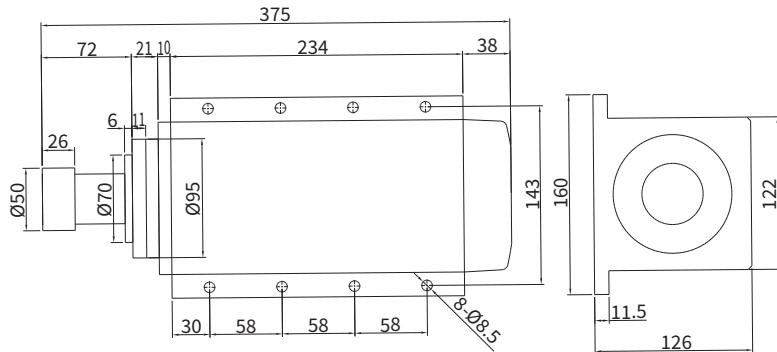
技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
4.5KW ER25 风冷 方型	1-18000	4.5	220/380	12
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	10	ER25Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines



6KW ER32 风冷 方型带边

6KW ER32 Air Cooled Square Belt

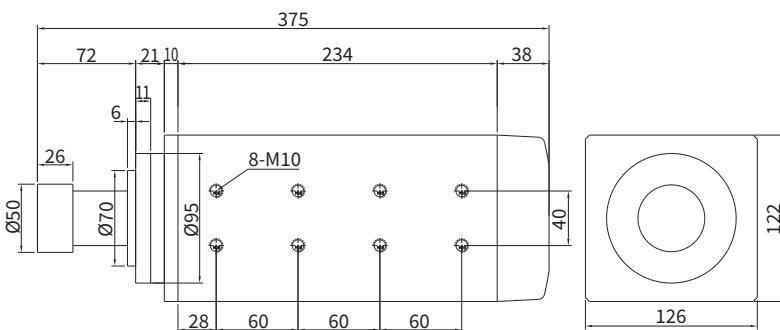


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
6KW ER32 风冷 方型带边	1-18000	6	220/380	12
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	15.3	ER32Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

6KW ER32 风冷 方型

6KW ER32 Air Cooled Square



技术参数 Technical Parameters

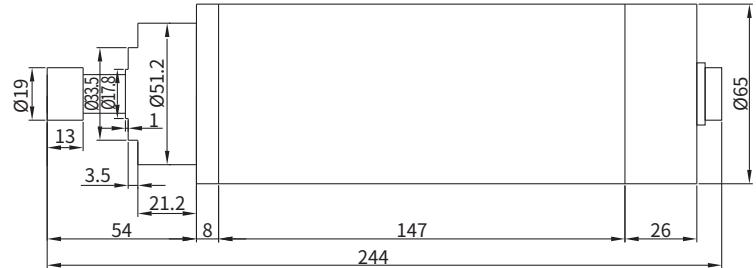
型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
6KW ER32 风冷 方型	1-18000	6	220/380	12
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	15	ER32Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

风冷电机 Air Cooled Spindle Motor

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD



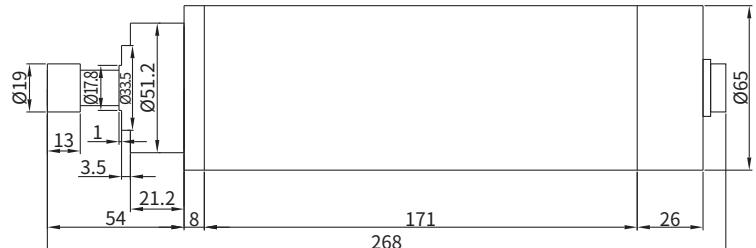
// 65 0.8KW ER11 风冷
65 0.8KW ER11 Air Cooling



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
65 0.8KW ER11 风冷	1-24000	0.8	110/220	6
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	2.4	ER11Φ1 - Φ7	风冷 Air - cooled	雕刻机 Engraving Machines

// 65 1.5KW ER11 风冷
65 1.5KW ER11 Air Cooling



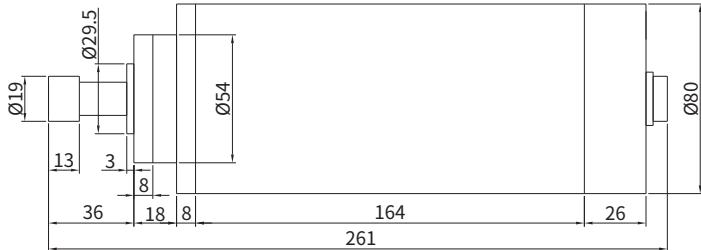
技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
65 1.5KW ER11 风冷	1-24000	1.5	110/220	8
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	2.7	ER11Φ1 - Φ7	风冷 Air - cooled	雕刻机 Engraving Machines



// 80 1.5KW ER11 风冷

80 1.5KW ER11 Air Cooling



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
80 1.5KW ER11 风冷	1-24000	1.5	110/220/380	8
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	4.1	ER11Φ1 - Φ7	风冷 Air - cooled	雕刻机 Engraving Machines

// 80 1.5KW ER16 风冷

80 1.5KW ER16 Air Cooling



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
80 1.5KW ER16 风冷	1-24000	1.5	110/220/380	8
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	4.3	ER16Φ1 - Φ10	风冷 Air - cooled	雕刻机 Engraving Machines

风冷电机 Air Cooled Spindle Motor

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD



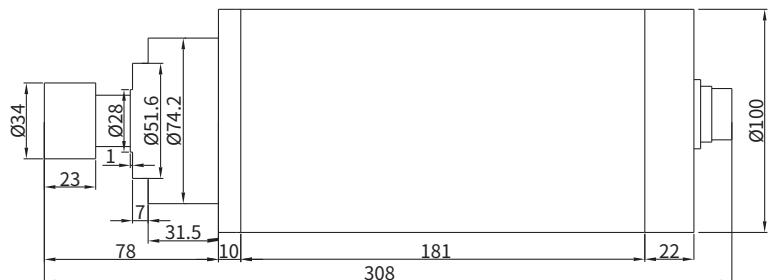
// 80 2.2KW ER20 风冷 80 2.2KW ER20 Air Cooling



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
80 2.2KW ER20 风冷	1-24000	2.2	110/220/380	8.5
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	5	ER20Φ1 - Φ13	风冷 Air - cooled	雕刻机 Engraving Machines

// 100 3KW ER20 风冷 100 3KW ER20 Air Cooling



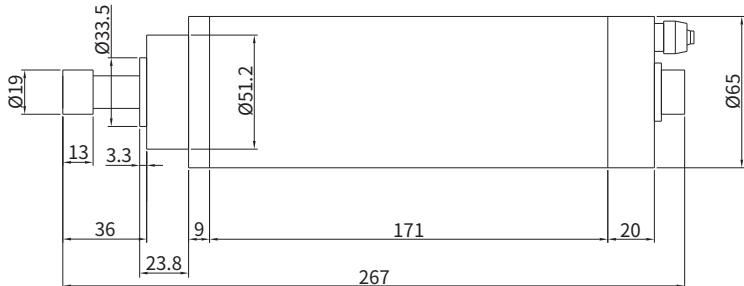
技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
100 3KW ER20 风冷	1-18000/24000	3	220/380	10
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300/400	9	ER20Φ1 - Φ13	风冷 Air - cooled	雕刻机 Engraving Machines



// 65 0.8KW ER11 水冷

65 0.8KW ER11 Water Cooled



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
65 0.8KW ER11 水冷	1 - 24000	0.8	110/220	6
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	3	ER11Φ1 - Φ7	水冷 Water - cooled	雕刻机 Engraving Machines

// 65 1.5KW ER11 水冷

65 1.5KW ER11 Water Cooled



技术参数 Technical Parameters

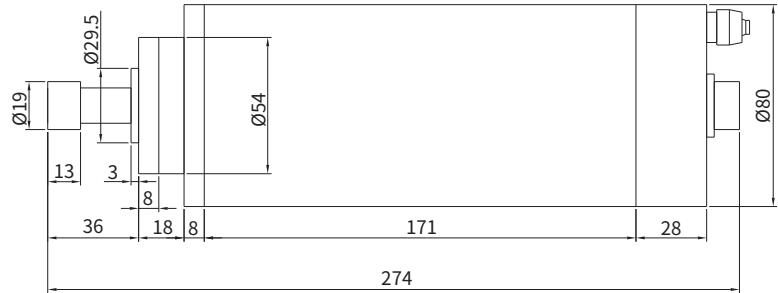
型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
65 1.5KW ER11 水冷	1 - 24000	1.5	110/220	8
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	3	ER11Φ1 - Φ7	水冷 Water - cooled	雕刻机 Engraving Machines

水冷电机 Water Cooled Spindle Motor

The logo for ZhongHuaJiang is located in the top right corner. It features the brand name "ZhongHuaJiang" in a stylized, handwritten font, enclosed within an oval border. Below the name is a decorative flourish consisting of two curved lines and a small circular element.

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD

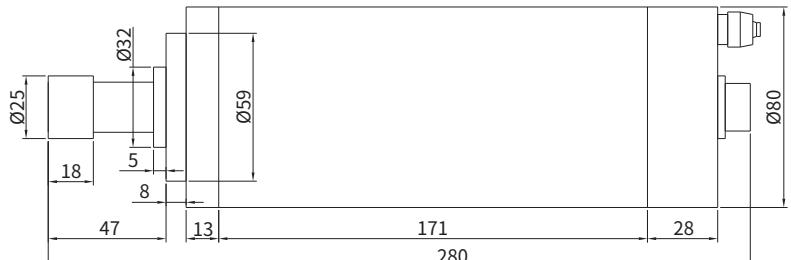
// 80 1.5KW ER11 水冷
80 1.5KW ER11 Water Cooled



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
80 1.5KW ER11 水冷	1 - 24000	1.5	110/220/380	8
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	4.4	ER11Φ1 - Φ7	水冷 Water - cooled	雕刻机 Engraving Machines

80 1.5KW ER16 水冷
80 1.5KW ER16 Water Cooled

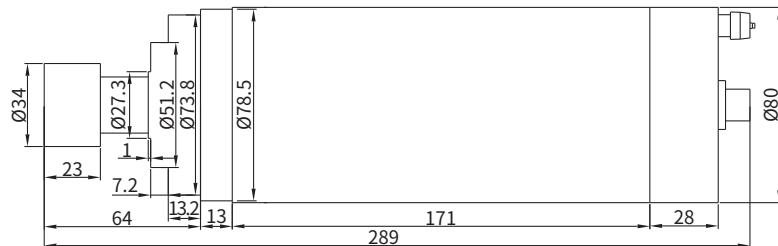


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
80 1.5KW ER16 水冷	1 - 24000	1.5	110/220/380	8
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	4.9	ER16Φ1 - Φ10	水冷 Water - cooled	雕刻机 Engraving Machines



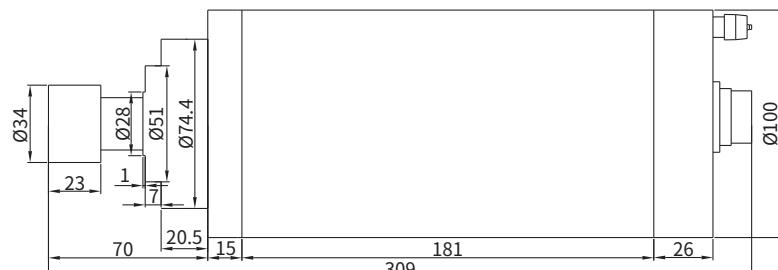
// 80 2.2KW ER20 水冷
80 2.2KW ER20 Water Cooled



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
80 2.2KW ER20 水冷	1 - 24000	2.2	110/220/380	8.5
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	5.2	ER20Φ1 - Φ13	水冷 Water - cooled	雕刻机 Engraving Machines

// 100 3KW ER20 水冷
100 3KW ER20 Water Cooled



技术参数 Technical Parameters

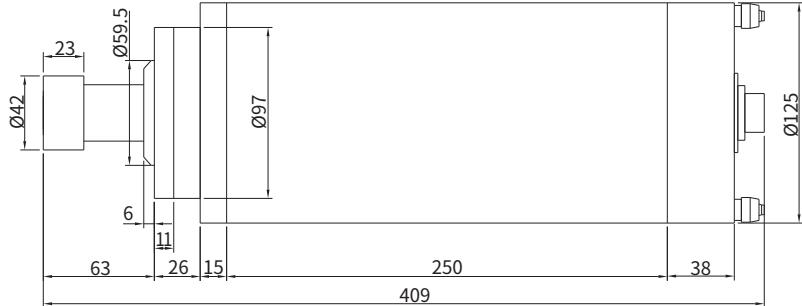
型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
100 3KW ER20 水冷	1 - 24000	3	220/380	10
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
400	8.8	ER20Φ1 - Φ13	水冷 Water - cooled	雕刻机 Engraving Machines

水冷电机 Water Cooled Spindle Motor

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD



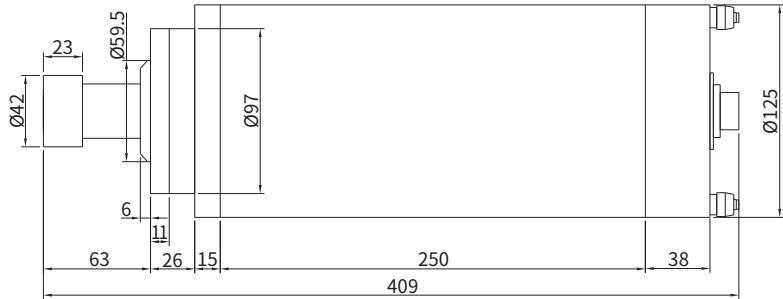
// 125 4.5KW ER25 水冷 125 4.5KW ER25 Water Cooled



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
125 4.5KW ER25 水冷	1 - 18000	4.5	220/380	12
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	22.2	ER25Φ4 - Φ20	水冷 Water - cooled	雕刻机 Engraving Machines

// 125 5.5KW ER25 水冷 125 5.5KW ER25 Water Cooled



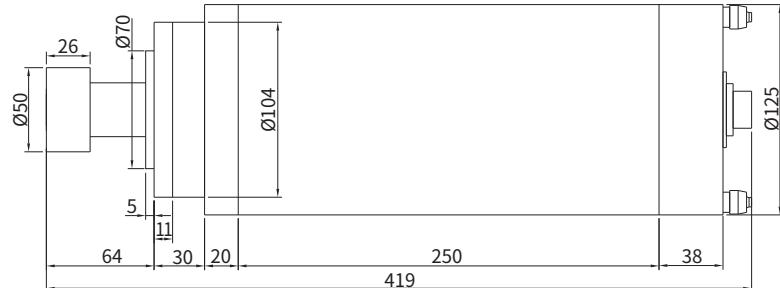
技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
125 5.5KW ER25 水冷	1 - 18000	5.5	220/380	12
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	22.2	ER25Φ4 - Φ20	水冷 Water - cooled	雕刻机 Engraving Machines



125 5.5KW ER32 水冷

125 5.5KW ER32 Water Cooled



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
125 5.5KW ER32 水冷	1 - 18000	5.5	220/380	12
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	22.8	ER32Φ4 - Φ20	水冷 Water - cooled	雕刻机 Engraving Machines

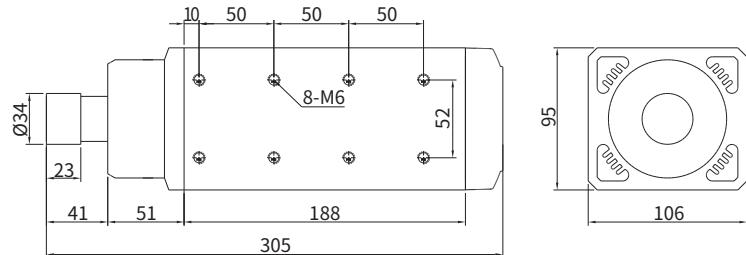
YS 系列电机 YS Series Spindle Motor

常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD



// YS8350 4.0KW ER20 风冷 方型

YS8350 4.0KW ER20 Air Cooled Square

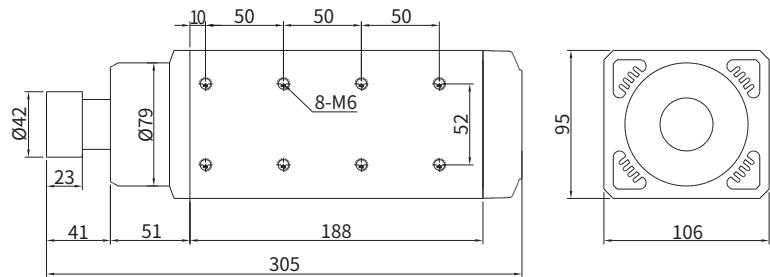


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
YS8350 4.0KW ER20 风冷 方型	1 - 18000/24000	4	220/380	9 - 7.0
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300/400	8.9	ER20Φ1 - Φ13	风冷 Air - cooled	雕刻机 Engraving Machines

// YS8350 4.0KW ER25 风冷 方型

YS8350 4.0KW ER25 Air Cooled Square



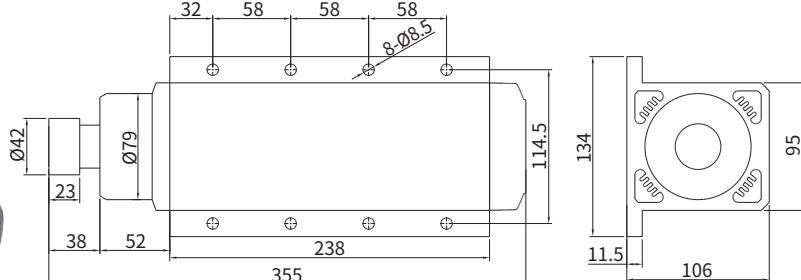
技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
YS8350 4.0KW ER25 风冷 方型	1 - 18000/24000	4	220/380	9 - 7.0
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300/400	9.1	ER25Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines



// YS8350B 4.5KW ER25 风冷 方型带边

YS8350B 4.5 KW ER25 Air Cooled Square Belt

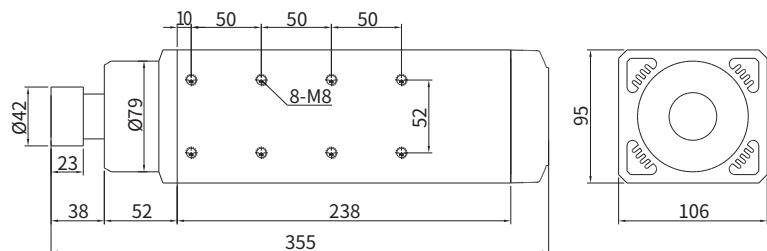


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
YS8350B 4.5KW ER25 风冷 方型带边	1 - 18000/24000	4.5	220/380	12.5 - 7.0
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300/400	11.5	ER25Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

// YS8350B 4.5KW ER25 风冷 方型

YS8350B 4.5 KW ER25 Air Cooled Square



技术参数 Technical Parameters

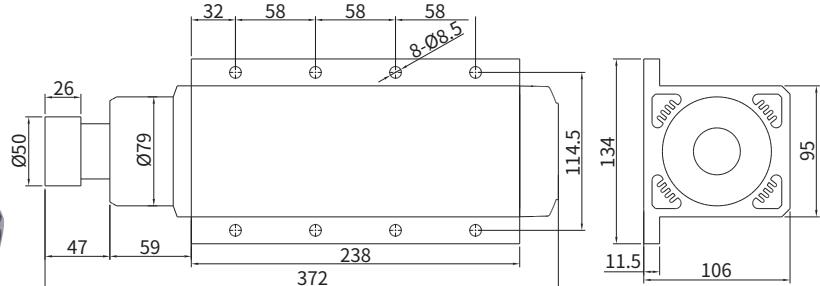
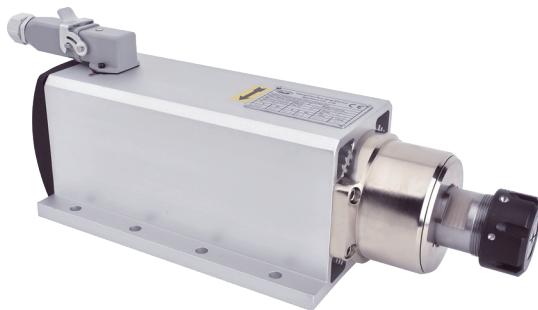
型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
YS8350B 4.5KW ER25 风冷 方型	1 - 18000/24000	4.5	220/380	12.5 - 7.0
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300/400	11.5	ER25Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

YS 系列电机 YS Series Spindle Motor



常州市华江电器有限公司 CHANGZHOU HUAJIANG ELECTRICAL CO., LTD

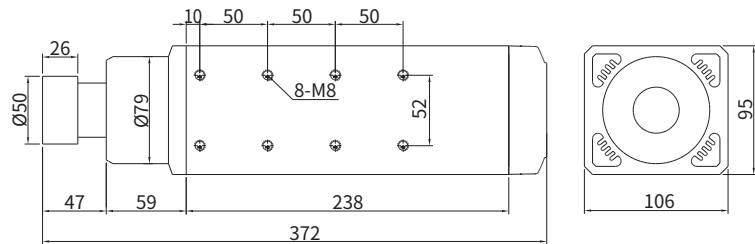
// YS8350C 6KW ER32 风冷 方型带边 YS8350C 6KW ER32 Air Cooled Square Belt



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
YS8350C 6KW ER32 风冷 方型带边	1-18000	4.5	220/380	12.5-10.5
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	12.1	ER32Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

// YS8350C 6KW ER32 风冷 方型 YS8350C 6KW ER32 Air Cooled Square



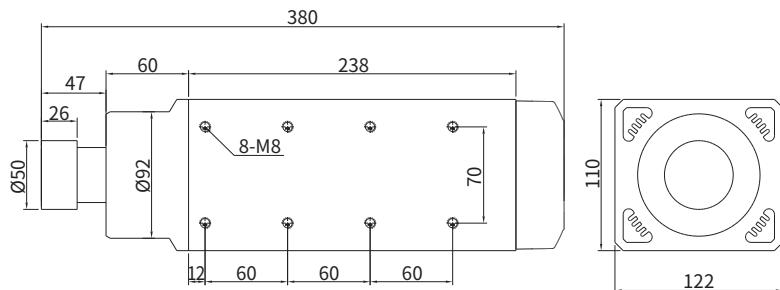
技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
YS8350C 6KW ER32 风冷 方型	1-18000	4.5	220/380	12.5 - 10.5
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	12	ER32Φ2 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines



// YS9055 6KW ER32 风冷 方型

YS9055 6KW ER32 Air Cooled Square

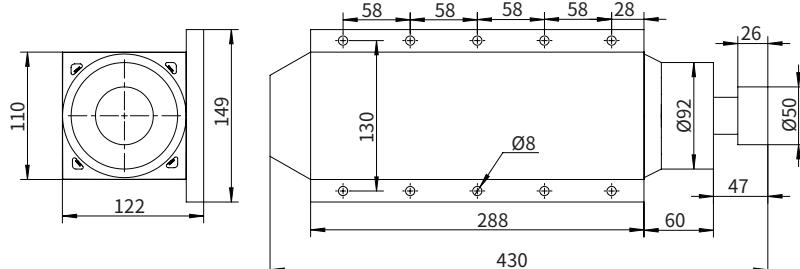


技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
YS9055 6KW ER32 风冷 方型	1 - 18000	6	220/380	11.5 - 12.5
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	14.9	ER32Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines

// YS9055T 7.5KW ER32 风冷 方型

YS9055T 7.5KW ER32 Air Cooled Square



技术参数 Technical Parameters

型号 Model	转速万 (r/min) Speed	功率 (KW) Power	电压 (V) Voltage	电流 (A) Electric Current
YS9055T 7.5KW ER32 风冷 方型	1-18000	7.5	220/380	14.7-15.2
频率 (HZ) Frequency	重量 (KG) Weight	轴端连接 Shaft End Connection	冷却 Cooling	用途 Usage
300	18.5	ER32Φ4 - Φ20	风冷 Air - cooled	雕刻机 Engraving Machines



// 电机接线 Electrical Wiring



// 主轴使用方式及维护 Spindle Usage and Maintenance

一、所有主轴的使用注意事项 Using notice:

- 1 电主轴与变频器应配套使用，变频器的规格及参数设置应和电主轴的额定参数相匹配。如设置不正确，会烧毁电主轴。
The spindle and the frequency converter should be used together, and the specifications and parameters of the frequency converter should be matched with the rated parameters of the spindle. If incorrect, the spindle will be burned.
- 2 水冷电主轴使用前必须保证冷却循环系统的工作正常，严禁在无冷却条件下使用，冷却水量按1升 / 千瓦分钟计算，冷却水量最低流量不少于5升 / 分钟，冷却水管与水嘴连接必须可靠，不泄漏。
Before using the water-cooled electric spindle, make sure that the cooling circulatory system is working smoothly. Use it without the cooling conditions is prohibited. Calculate the cooling water as per 1L/kw minutes, and the cooling water flow rate should at least 5L/ minute, the connection between the cooling water pipe and water mouth must be reliable without leakage.
- 3 冷却液必须洁净，无油腻，温度控制在5-30℃。若环境温度高于30℃，冷却介质必须进行强制制冷。精密加工机床要求冷却液恒温20±2℃。Coolant must be clean, not greasy, temperature control in 5-30℃. If the environment temperature is higher than 30℃, then the cooling medium must force refrigeration. For precision machine tool the coolant constant temperature should be 20 plus or minus 2 °C .
- 4 电主轴在保存和运输过程中，轴承内部的高速油脂状态会发生改变，客户使用前应先低速磨合。磨合从电主轴的最低转速开始进行，30分钟后按3000转级差进数，每档磨合20分钟，若不磨合直接高速启动，会产生异响、噪音、发热等现象，影响轴承使用寿命。电主轴在长期使用保存过程中应至少在一星期之内开机（低速）15-30分钟。
In the process of saving and transporting the spindle, the high speed grease status in the bearing will be changed, and the customer should run the spindle under the minimum speed for 30 minutes firstly, then increase 3000 RPM as a shift for each following 20 minutes. If you start running in high speed directly without run-in period, the spindle will cause the phenomenon such as foreign noise, high heat rise etc., and it affects the bearing life. The spindle should be turned on (low speed) for 15-30 minutes weekly for the long term use purpose.
- 5 电主轴装夹刀具时，必须将筒夹、螺帽、内锥孔清洗干净，以免影响精度，刀柄插入筒夹必须大于15毫米。
When clamping the cutter into the spindle, the tube clamping, nut and inner cone shall be cleaned to avoid the influence of precision. The holder of the handle shall be inserted into tube clamp bigger than 15mm.
- 6 电主轴每天加工时必须进行预热，待电主轴到达加工转速，运行15-20分钟后进行精加工。每天宜让电主轴停机2小时，以便恢复机械疲劳，从而延长使用寿命。The spindle must be preheated every day, and when the spindle reaches the processing speed, run for 15-20 minutes then processing. Keep the spindle rest for 2 hours every day to prolong the use life.
- 7 严禁敲击电主轴端盖，卸刀时严禁敲打筒夹及刀头。运输、保管及使用中严禁磕碰，特别是轴端。It is strictly forbidden to knock on the spindle end cover. During transportation, storage and use, the hit is strictly prohibited, especially the shaft end.
- 8 电主轴必须按指定方向运转。The spindle should run according to the assigned direction.
- 9 装夹电主轴请按主轴装夹图指示进行。Assemble the spindle according to the drawing.
- 10 使用水冷机进行冷却的用户温度必须控制在22-25℃。
The temperature should be controlled within 22-25°C for the water-cooled spindle user.
- 11 电主轴使用气封，气源须经油水分离器、干燥过滤器方可使用，气压在0.2-0.25MPa，过滤精度5μm，否则会造成轴承损坏。
When the spindle uses air seal, the air must be used by the oil and water separator and the drying filter, the air pressure is 0.2-0.25 MPa, and the filtration precision is 5μm, otherwise the bearing will be damaged.

二、维护和保养 Maintenance:

- 1 电主轴运行中发出异常声音或振动特别大时，应立即停机检查轴承，必要时须更换新轴承。当运行中发出异常气味或突然停转，应立即切断电源，用摇表测量定子对地电阻及三相电阻，绝缘电阻丧失为定子烧坏，应回厂更换定子。
When abnormal noise or vibration is especially large in the operation process, check the bearing immediately and replace the new bearing when necessary. When the abnormal smell or suddenly stops happens during operation, should immediately cut off the power supply, use megger to measure the resistance between the stator and the ground, also the three-phase resistance, if the insulation resistance is in loss then the stator is burned, the spindle should be back to the factory to replace the stator.
- 2 电主轴应定期更换润滑脂。由专业培训维修人员来更换。
The spindle should replace the grease regularly by professional trained personnel.
- 3 电主轴不允许用任何机械方式在轴端强行制动。
The spindle is not allowed to force brake on the shaft by any mechanical means.
- 4 电主轴须维修时，应由专业培训维修人员或回厂由我公司修理。
When repairing the spindle, it shall be repaired by the professional trained personnel or back to the factory.



三、维修时应注意的事项 Maintenance notice:

维修人员须经过专业培训后才能上岗，维修场所必须清洁，应有严格防尘措施，拆装电主轴时应使用专用工具，严禁硬打硬敲，以免损坏零件。Maintenance personnel must be trained before they are qualified, and the maintenance place must be clean and should be strictly dust-proof. Special tools should be used when disassembling the spindle, it is forbidden to knock hard in order to avoid damage to the parts.

1 电主轴拆卸 Disassemble the spindle

- (1) 拆下水嘴座，去除定子与接线座的引线后，再拆下后盖及后螺母。 Remove the connecting seat and remove the rear cover and rear nut.
- (2) 拆下前防尘罩，拧下前螺母，拆下前盖。 Disassemble the front dust proof shield, take off the nut, and disassemble the front cover.
- (3) 将转子轴组件在压力机上向前压出机壳及前端盖。 Press out the rotor groupware.
- (4) 将后轴承组件从机壳上取出。 Take out the rear bearing groupware from the housing.
- (5) 将前轴承组件从转子轴中压出。 Press out the front bearing groupware.
- (6) (若只换轴承，不换定子，此步骤省略) 拆下前端盖 (注意：装配时前端盖和机壳在圆周上有方向关系)，将定子从机壳内取出，严禁用力掰扯。
(If only change the bearing, not change the stator, this step can be omitted) remove the front cover (note: the frontcover and the housing have the direction relationship on circle), take the stator from the housing, it is strictly prohibited to break off hard.

2 电主轴装配 Spindle assembly

- (1) 装配前各零件都必须用 120# 以上汽油清洗干净，以防污物带入壳体，影响主轴精度和寿命。
All parts must be cleaned with gasoline of 120 # before assembly to prevent the dirt from being brought into the housing, otherwise it will affect the accuracy and life of the spindle.
- (2) 装配顺序与拆卸步骤相反。 The assembly procedure is opposite to the disassembly procedure.
- (3) 有隔圈的主轴，更换新轴承时要配研隔圈，检测轴承的预紧力；保证隔圈两端面的平行差不大于 0.002mm。
When the spindle has separatering, when change the new bearing the ring should be equipped, the pre tight force of the bearing should be detected. The parallel difference between the two sidesof the ring is no more than 0.002 mm.
- (4) 轴承组件要在压力机上压入轴上和壳体内，严禁锤击敲打轴承。
The bearing shall be pressed into the shaft and the housing, and the bearing shall be strictly prohibited to knock.
- (5) 电主轴装配完毕后，用手拧转主轴伸出端应灵活无间隙，无任何卡滞现象，测试主轴的跳动合乎要求，然后装机按新轴从低速到高速试验程序试验。
When the spindle assembly has been completed, with the hand twist turning the shaft should be no clearance, without any clamp phenomenon, the shaft play meets the requirement, and test the spindle from low speed to high speed according to the test program.

四、常见故障及排除方法 Common Faults and Troubleshooting Methods:

故障 Fault	原因 Cause	排除方法 Troubleshooting method
开机后电主轴不运转 Not running	变频器无输出或设定不对 No output or wrong setup for the frequency converter	检查变频器输出设置正确 Check the output setup
	插头未插 Forget to plug	检查插头及连线 Check the plug and cable
	插头连线不好 Plug connection cable is NG	
开机后运转几秒钟后停机 Run for seconds then stop running	定子线包烧坏 The stator is burned	更换线包 Change the winding
	进水破坏线包绝缘 Water comes in and damage the winding insulation	烘干线包 Heat the winding
	高温引起线包绝缘损坏 High temp caused the winding broken	更换线包 Change the winding
	缺相运行造成过电流保护 Phase lack running caused the current protection	检查电机连线 Check the connect cable
开机后几秒钟电机冒烟或外壳发烫 Smoke comes out or housing heating after running for seconds	启动时间太短 Startup time is too short.	延长加速时间 Extend the acceleration time
	变频器无输出电压、频率与电主轴铭牌电压、频率不符 The output voltage and frequency is different between the frequency converter and spindle	检查变频器的基频设定 Check the basic frequency setup of the frequency converter
	变频器设定不对 The frequency converter setup is wrong	重设变频器 Reset the frequency converter
启动时螺母松动 Nut loose when startup	水路问题 Water circuit problem	检查水路是否畅通 Check the water circuit
	旋向错误 Screwing direction is wrong	按铭牌更改旋向 Change the screwing direction as per the lable
	轴承磨损严重 The bearing abrasion is serious	更换轴承 Change bearing
噪声及振动大 Noise & vibration is big	零件精度受损影响动平衡 Component precise is damaged and affect the balancing	校验动平衡 Balancing
	主轴跳动大 Shaft vibration largen	更换主轴 Change the shaft.
停机时螺母松动 Nut loose when stop running	停机时间太短 Rest time is too short	延长减速时间 Extend the speed slow down time

