Ningbo Nide Mechanical Equipment Co., Ltd.

宁波耐达机械设备有限公司

工厂地址/Factory Add

江苏省苏州市吴中区胥口镇惠安路8号惠民工业园6栋

Building 6,Huimin Industrial Park,No.8 Huian Road,Xukou Town,Wuzhong District, Suzhou,China

办公地址/Head office Add

浙江省宁波市高新区翔云路100号科贸中心东14-5　邮编：315040

14-5，East Kemao Center,No.100 Xiangyun Road,Hi-Tech District,Ningbo 315040,China

联系人Contact：Annie

电话Tel：0086-（0）574-87295639

传真Fax：0086-（0）574-87295637

手机Mobile：0086 13738869026

E-mail：emarketing@nide-group.com　marketing@nide-group.com

Web: www.nide-group.com

台州服务中心/Taizhou After Service Center

地址/Add：台州温岭市大溪镇/Add: Daxi town wenling taizhou

电话/Tel：13566688236

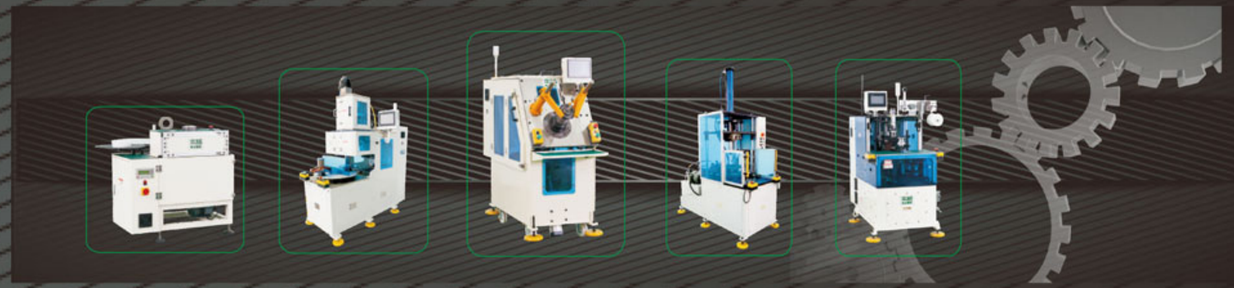
印度售后服务中心/India After Service Center

南部-哥印拜陀　South-Coinbatore

北部-新德里　North-New Delhi

土耳其售后服务中心/Turkey After Service Center

伊斯坦布尔　Istanbul　In Process





Ningbo Nide Mechanical Equipment Co., Ltd.

宁波耐达机械设备有限公司

www.nide-group.com

目录 Contents

公司简介	Company Profile	01/02
文化篇	Culture	04
实力篇	trength	05/06
产品篇	Product	07/36
绝缘纸插入机	Insulation Paper Inserting Machine	07
伺服插纸机	Servo Paper Inserting Machine	08
卧式绝缘纸插入机	Horizontal Type Insulation Paper Inserting Machine	09
定子线圈绕线机	Stator Coil Winding Machine	10
大功率绕线机	High Power Coil Winding Machine	11
立式绕线机	Vertical Coil Winding Machine	12
双头四工位立式绕线机	Double heads four station vertical type auto coil winding machine	13
四头八工位立式绕线机	Eight Working Station Coil Winding Machine	14
波纹绕线机	Wave Winding Machine	15
伺服嵌线机	Horizontal Winding Inserting Machine	16
卧式嵌线机	Horizontal Winding Inserting Machine	17
三工位嵌线机	Three station winding inserting machine	18
深井泵电机嵌线机	Deep water pump motor winding inserting machine	19
全自动绕线嵌线一体机	Automatic stator winding and coil inserting machine	20
嵌线扩涨一体机	Winding inserting and expanding machine	21
卧式单面绑线机	Horizontal Single Side Lacing Machine	22
伺服双面绑线机	Servo Double Sides Lacing Machine	23
单面绑线机	Single Side Lacing Machine	24
全自动四工位绑线机	Automatic four stations lacing machine	25
预整机	Pre-forming machine	26
进出工位中间整形机	Middle forming machine (with auto slider and protective teeth)	27
翻转工位中间整形机	Stator middle forming machine with upender	28
进出工位最终整形机	Final Forming Machine (with auto slider)	29
翻转工位精整机	Stator final forming machine with upender	30
卧式中间整形机	Horizontal type middle forming machine	31
卧式最终整形机	Horizontal Final Forming machine	32
双工位轮毂电机绕线机	Double Station Wheel Motor Winding Machine	33
轮毂电机插纸机	Wheel motor paper inserting machine	34
双工位轮毂插片机	Double station wheel motor wedge inserting machine	35
双头槽盖纸成型机	Double heads wedge forming and cutting machine	36
槽底纸成型机	Insulation paper forming and cutting machine	37
槽楔扩涨机	Wedge expanding machine	38
定子双工位内绕机	Stator winding machine (with two working station)	39
内定子绝缘纸插入机	Inner stator insulation paper inserting machineg	40
定子自动化生产线	Automatic stator Production Line	41
定子自动化检测	Automatic stator Testing Line	42
设备订购所需产品资料	Information Needed For Equipment Ordering	43
模具/其它配件	Tooling/Other Spare Parts	44
服务篇	Service	45/46

企业文化/Enterprise culture



企业宗旨：重视文化建设、注重细节管理、追求每天进步

我们秉承“重视文化建设、注重细节管理、追求每天进步”的企业宗旨和“服务、专业、快捷、诚信、创新”的企业理念，贯彻“创造价值、实现自我、承担责任”的企业使命。精益求精是我们永恒的追求，不断满足客户的要求是我们发展的目标。

实力篇
Strength

工厂一角/A corner of the factory





加工中心/Machining center







主要提供产品

绕线机系列：多头绕线机、双工位绕线机、卧式绕线机、单工位立式绕线机、四头八工位立 式绕线机、多线并绕绕线机、电动车绕线机

绝缘纸机系列：单头绝缘纸插入机、卧式绝缘纸插入机、异形槽绝缘纸插入机、槽底纸裁断机、槽盖纸形成机

嵌线机系列：伺服嵌线机、伺服分度嵌线机、卧式伺服嵌线机、绕嵌一体机

整形机系列：线圈扩张机、中间整形机、最终整形机、卧式线圈扩张机、卧式中间整形机、卧式最终整形机

绑线机系列：伺服单面绑线机、伺服双面绑线机、四工位双面绑线机、卧式单面绑线机








绝缘纸插入机

Insulation Paper Inserting Machine

主要特点

该机型是为中小型三相电机、汽油发电机等定子槽底部绝缘纸自动插入的专用自动化设备；送纸、折边、冲压成形均自行完成，具有噪音小、速度快、成形饱满等优点；变更槽数只需更改文本设置即可，可实行隔槽、跳槽自动插入，定子槽形转产更换模具方便快捷。

Main Feature

A special design for inserting slot paper into the stator with multi slot shapes, paper cutting, paper forming and inserting are automatically completed, feeding paper and breadth setting are controlled by servo system; forming mold is adjustable to different sizes of slot automatically; characterized by simple operation, low noise, high efficiency.



机　型 Model	CZDL1-90/135	CZDL2-160/190
叠厚范围 Stack Height	20~90mm	20-160mm
定子内径 Stator I .D	Φ20-Φ90mm	Φ50-Φ120mm
定子外径 Stator O .D	≤Φ135mm	≤Φ190mm
折边高度 Height of Edge Folded	2-4mm/ 4-7mm	2-4mm/ 4-7mm
材料厚度 Insulation Paper’ s Thickness	0.188~0.35mm	0.188~0.35mm
生产节拍 Efficiency	≈0.5s/s	≈0.8s/s
电　源 Power Supply	380V/50/60Hz 2kW	380V/50/60Hz 2kW
重　量 Weight	≈200Kg	≈250Kg
外形尺寸 Dimension	(L)1200×(W)650×(H)1100mm	(L)1200×(W)650×(H)1200mm

伺服插纸机

Servo Paper Inserting Machine

主要特点

本机是针对同一定子有不同的槽形而设计，一盘绝缘纸可一次性完成插纸工作；其主要特点是多种槽形定子插纸时自动调整周长、切纸、卷边、插入；采用伺服电机送纸定宽，人际界面设定所需特殊参数，成型模具自行切换至不同槽形；操作简单、噪音小、速度快、自动化程度高。

Main Feature

A special design for inserting slot paper into the stator with multi slot shapes, paper cutting, paper forming and inserting are automatically completed, feeding paper and breadth setting are controlled by servo system; forming mold is adjustable to different sizes of slot automatically; characterized by simple operation, low noise, high efficiency.





机　型 Model	CZSL1-80/135	CZSL2-160/160
定子内径 Stator I .D	Φ40-Φ80mm	Φ70-Φ140mm
定子外径 Stator O .D	≤Φ135mm	≤Φ160mm
定子叠厚 Stack Height of Stator	≤80mm	≤160mm
折边宽度 Width of Edge Folded	2.5~4mm	3~7mm
送纸长度 Feeding Perimeter	≥12mm	≥15mm
材料厚度 Material’ s Thickness	≤0.35mm	≤0.35mm
电　源 Power Supply	380v/50/60Hz 2.5kW	380V/50/60Hz 2.5kW
气　源 Air Pressure	≥0.5MPa	≥0.6MPa
重　量 Weight	≈250Kg	≈280Kg
外形尺寸 Dimension	(L)1150×(w)1000×(H)1500mm	(L)1150×(W)1000×(H)1600mm

卧式绝缘纸插入机

Horizontal Insulation Paper Inserting Machine

主要特点

本机型是专为中大型电机等定子槽底部绝缘纸自动插入的专用自动化设备；送纸、折边、冲压成形均自行完成；特别适用于发电机、深水泵电机、三相电机等，变更槽数只需更改文本设置即可，可实行隔槽、跳槽自动插入，定子槽形转产更换模具方便快捷。

Main Feature

Suitable exclusively for large and medium-sized motors, inserting insulation paper automatically from bottom of stator slot; automatic paper feeding, edge folding and forming; characterized by low noise, fast speed, excellent forming, etc.; slot number change is controlled by electric; interval slot inserting and skip slot inserting could be at option; it is convenient and easy for different slot number stator production and changing tooling.especially suitable for generator, deep pump motor, three phase machine, etc.





机　型 Model	CZDW1-190/210	CZDW2-300/300
叠厚范围 Stack Height	40~200mm	80~300mm
定子内径 Stator I .D	Φ70-Φ150mm	Φ70-Φ250mm
定子外径 Stator O .D	≤Φ210mm	≤Φ300mm
折边高度 Height of Edge Folded	2-4mm/ 4-7mm	2-4mm/ 4-7mm
材料厚度 Insulation Paper’ s Thickness	0.188~0.35mm	0.188~0.35mm
生产节拍 Efficiency	≈1.2s/s	≈1.5s/s
电　源 Power Supply	380V/50/60Hz 3.5kW	380V/50/60Hz 3.5kW
重　量 Weight	≈500Kg	≈600Kg
外形尺寸 Dimension	(L)1100×(W)900×(H)1500mm	(L)1600×(W)1420×(H)1600mm

定子线圈绕线机

Stator Coil Winding Machine

主要特点

本机型可作多连式、多层式线圈的绕制；可一次同时绕1～8组线圈，专用绕线机控制器可设定自动换槽、起绕点、慢车启动、慢车停止、两端停车、自动归位、自动启动等功能；配备两根模轴交替使用；适用于风扇电机、水泵电机、空调电机、三相电机等微型类感应电机。

Main Feature

Suitable for multi-connected and multi layer winding; wind 1-8coils simultaneously at a time; automatic slot change, starting winding position, idling start, idling stop, double-ended stop, automatic reset and automatic start could be set in control system. There are two alternate spindles to facilitate higher output; apply to all kinds of micro motors such as fan motor , Pump motor , air conditioner motor , three phase machine,etc.





机　型 Model	RX1-160	RX2-250	RX3A-550
线径范围 Wire Diameter	Φ0.1~Φ1.2mm	Φ0.2~Φ1.5mm	Φ0.2~Φ1.5mm
回转直径 Swing Diameter	Φ220mm	Φ350mm	Φ550mm
工作头数 Winding Head	1~8	3	1
最大定子叠厚 Max Stack Height	100mm	180mm	300mm
最大定子外径 Max Stator O.D	Φ160mm	Φ210mm	Φ210mm
丝杆行程 Screw Stroke	170mm	400mm	400mm
最高转速 Max Speed	3200r/min	1600r/min	500r/min
气源压力 Air Pressure	0.4MPa	0.4MPa	0.4MPa
电　源 Power Supply	220V 50/60Hz 0.75kW	220V 50/60Hz 1.5kW	220V 50/60Hz 2.2kW
重　量 Weight	≈350Kg	≈350Kg	≈400Kg
外形尺寸 Dimension	(L)1520×(W)1220×(H)1290mm	(L)1300×(W)1260×(H)1280mm	(L)1360×(W)1300×(H)1280mm

大功率绕线机

Big Coil Winding Machine

主要特点

本机型适用于大功率电机线圈的绕制，专用绕线机控制器实现自动绕线、排线、跨槽、自动过腊管、产量设定等特点；绕完线后模具可自动伸缩，无需将模具卸下取线圈，大大降低了工人的劳动强度，提高了工作效率；同一系列型号定子线圈转产模具可调节实现，可满足多股线并绕，张力稳定可调节，保证了产品的标准化生产。



Main Feature

Adopts special purpose controller to realize the function of auto winding, auto arraying, slot acrossing, auto getting through wax tube and output setting, etc, this machine is suitable for winding the coil for big power motor. The tooling could be auto extend and retract, therefore. it is not need to discharge the tooling when taking out the finished coil, thus to reduce the labor and improve the efficiency. It could produce different dimension coils which is for same series size stator by adjusting the tooling, and tension is adjustable.

机　型 Model	RX4-650	RX6-1200
线径范围 Wire Diameter	Φ0.3-Φ1.6mm	Φ0.3-Φ1.6mm
回转直径 Swing Diameter	Φ350-Φ650mm	Φ500-Φ1200mm
工作头数 Winding Head	1	1
适用机座号 Applicative Frame Size	200,225,250,280	280,315,355,400,455
丝杆行程 Screw Stroke	400mm	450mm
最高转速 Max Speed	160r/min	60r/min
最多并绕根数 Max Parallel Wire No.	20 pcs	60 pcs
气源压力 Air Pressure	0.4MPa	0.4MPa
电　源 Power supply	220V 50/60Hz 3kW	380V 50/60Hz 5.5kW
重　量 Weight	≈800Kg	≈1000Kg
外形尺寸 Dimension	(L)1500×(W)1700×(H)1550mm	(L)2300×(W)2200×(H)2000mm

立式绕线机

Automatic Coil Winding Machine

主要特点

本机型为单头双工位自动绕线机；可将线圈整齐排列到挂线杯治具中，特别适用于高槽满率、小槽口定子的绕线；绕线方式自动跳段、 自动剪线、自动分度依序一次完成，人际界面设定参数 、绕线张力可调，具有连续绕线/非连续绕线等功能，可满足2极、4极、6极电机线圈绕制。



Main Feature

The machine is with single winding head and two operation station, the system automatic put the coil into transfer former orderly; the machine is especially suitable for winding the coil for high slot filling rate,small slot opening stator ;winding mode such as automatic skip,automatic cutting and automatic indexing can be finished at a time successively ;parameter could be set in human-machine interface,winding tension is adjustable;obtain continuous/discontinuous winding way and meets the 2 poles,4 poles and 6 poles coils winding requirement.

机　型 Model	RXL1-160
线径范围 Wire Diameter	Φ0.2-Φ1.2mm
飞叉直径 Fly Fork Diameter	Φ400mm
工作头数 Winding Head	1
最大定子叠厚 Max Stack Height	160mm
最大定子外径 Max Stator O.D	Φ210mm
跳档段数 Jump File No.	1~7
最高转速 Max Speed	2200r/min
气源压力 Air Pressure	0.4MPa
电　源 Power Supply	380V 50/60Hz 4.5kW
重　量 Weight	≈1200Kg
外形尺寸 Dimension	(L)2200×(W)1200×(H)2200mm

双头四工位立式绕线机

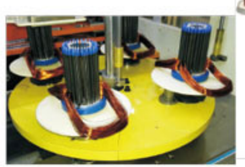
Double heads four station vertical type auto coil winding machine

主要特点

本机型为双头四工位立式绕线机；转盘四工位机构,主副相可同时绕制；设备可将线圈整齐排列到挂线杯中，特别适合于产量要求高的定子绕线；自动跳段、自动剪线、自动分度依序一次完成；人机界面可设定圈数参数、绕线速度、沉模高度、沉模速度、绕线方向等；绕线张力可调，具有连续排线、非连续排线等功能；可满足2极、4极、6极电机线圈的绕制。

Main Feature

This machine has two winding heads with four working station. The main phase and auxiliary phase can be wound simultaneously. It suitable for high production capacity requirement high slot filling rate, small slot opening stator coil winding. Winding mode such as auto skip, auto cutting and auto indexing could be completed at a time successively. Parameter could be set in HMI. Continuous/discontinuous winding way and meets the 2 poles, 4 poles, and 6 poles coils winding.





机　　型 Model	RXL2-160
线 径 范 围 Wire Diameter	Φ0.18-Φ1.2mm
飞 叉 直 径 Fly Fork Diameter	Φ400mm
工 作 头 数 Winding Head	2
最大定子叠厚 Max Stack Height	160mm
最大定子外径 Max Stator O.D	Φ200mm
跳 档 段 数 Jump File No.	1~5
最 高 转 速 Max Speed	1800r/min
气 源 压 力 Air Pressure	0.6-0.8MPa
电　　源 Power Supply	380V 50/60Hz 7.5kW
重　　量 Weight	≈2000Kg
外 形 尺 寸 Dimension	(L)2600×(W)2200×(H)2200mm

四头八工位立式绕线机

Eight Working Station Coil Winding Machine

主要特点

本机型为四头八工位立式绕线机，效率高是本机特点；转盘单面四工位机构,主副相可同时绕制；设备可将线圈整齐排列到挂线杯中，特别适合于产量要求高的定子绕线；自动跳段、自动剪线、自动分度依序一次完成；人机界面可设定圈数参数、绕线速度、沉模高度、沉模速度、绕线方向等；绕线张力可调，具有连续排线、非连续排线等功能；可满足2极、4极、6极电机线圈的绕制。

Main Feature

The machine is four winding heads with eight operation stations,high efficiency is its feature.The machine automatically put the coil into transfer former orderly,especially suitable for high production capacity requirement,high slot filling rate,small slot opening stator coil winding. Winding mode such as auto skip,auto cutting and auto indexing could be completed at a time successuvely,parameter could be set in human-machine interface.Continuous/discontinuos winding way and meets the 2 poles,4 poles and 6 poles coils winding.





机　　型 Model	RXL4-100
线 径 范 围 Wire Diameter	Φ0.19-Φ1.2mm
飞 叉 直 径 Swing Diameter	Φ220mm
操 作 工 位 Operation Station	8
工 作 头 数 Winding Head	4pcs
最大定子叠厚 Max Stack Height	65mm
最大定子外径 Max Stator O.D	Φ120mm
最 高 转 速 Max Speed	2500r/min
气 源 压 力 Air Pressure	≥0.5MPa
电　　源 Power Supply	380V 50/60Hz 15kW
重　　量 Weight	≈4500Kg
外 形 尺 寸 Dimension	(L)2400×(W)1900×(H)2250mm

波纹绕线机

Wave Winding Machine

主要特点

采用伺服电机主要绕线动力，钢丝绳牵引气动自动整形设计形式，自动送线，切断，兼容单线及双线并饶的绕组形式，挂线杯自动分度，特别适用于汽车发动机定子的波纹饶组的绕制。

Main Feature

Winding spindle driving by servo motor,wire feeding, cutting and winding are automaticlly completed,it could use one wire or two wires parallel winding, transfer form indexing is automatical,the machine is especially suitable for automobile alternator stator coil winding.



机　　型　Model	BXBW1-55/80
线 径 范 围　Wire Diameter	Φ0.5-Φ1.8mm
最大定子叠厚　Max Stack Height	55mm
最大定子外径　Max Stator O.D	Φ160mm
最大定子内径　Max Stator I.D	Φ80mm
最 高 转 速　Max Speed	250r/min
气 源 压 力　Air Pressure	≥0.4MPa
电　　源　Power Supply	380V 50/60Hz 4kW
重　　量　Weight	≈1200Kg
外 形 尺 寸　Dimension	(L)1850X(W)2100X(H)2000

伺服嵌线机

Servo Winding Inserting Machine

主要特点

本机型为线圈与槽楔自动嵌入定子槽形中的设备；此设备能够将线圈和槽楔或线圈与槽中层间槽楔一次性嵌入定子槽形中；槽楔采用步进电机送纸，线圈与槽楔采用伺服电机嵌入，配备人际界面可设定所需参数，可根据不同的电机的槽满率与线的种类设定不同的嵌入速度与送槽楔方式；转产可更换模具实现，特别适应于空调电机、洗涤电机、压缩机电机、风扇电机、发电机电机、泵用电机等微型类感应马达。

Main Feature

With servo driven system, the machine is used for inserting coil and wedge into stator slot simultaneously, the wedge feeding is to be done by stepping motor,different parameter could be set in human-machine interface;the speed and feeding mode is acquirable according to different slot filling rate and different kind of wire; The machine mainly apply to air conditioner motor,washing machine motor,compression motor,fan motor,generator motor, pump motor, single and three phase induction motor, etc.





机　　型 Model	QX1-150/160
适应内径 Stator I.D	Φ30~Φ110mm
适应外径 Stator O.D	≤Φ160mm
叠厚范围 Stack Height	10-150mm
模具行程 Tooling Travel	≤60mm
适应线品 Appropriate Wire	铜线/铝线Copper Wire/Alum Wire
适应槽数 Slot Number Range	8~48 slots
电　　源 Power Supply	380V 50/60Hz 3kW
重　　量 Weight	≈600Kg
外形尺寸 Dimension	(L)1850×(W)650×(H)1700mm

卧式嵌线机

Horizontal Winding Inserting Machine

主要特点

本机型为卧式全自动嵌线机，采用交流伺服电机驱动系统、伺服打纸系统、气动系统，由工业可编程PLC综合控制，同时具有槽模自动定长送料、切断、冲入成形、随线圈一起嵌入定子等功能；线圈嵌入速度可分段设定，可根据不同电机设定不同的送槽模方式；该机配置了人机控制界面，具有状态显示，故障报警，各类参数设置等功能，具有适应范围广、自动化程度高、操作简便、模具更换方便快捷等特点。





Main Feature

With horizontal frame design, controlled by industrial programmable PLC, the machine is used for winding and wedge automatically inserting. It adopts AC servo motor driving system, AC frequency conversion speed regulation system, pneumatic system. It can achieve wedge length setting, feeding, cutting, forming and inserted into stator together with coil automatically. Coil inserting speed can be set at different section. Wedge feeding mode can be set according to different motor. Equipped with human-machine control interface ,it has the function of status display, malfunction alarm, various parameters setting etc,,it has the characteristic of widely application, high automation, easy operation and convenient tooling change.

机　　型 Model	QW1-250/300
适应内径 Stator I.D	Φ100~Φ150mm
适应外径 Stator O.D	≤Φ250m
叠厚范围 Stack Height	80~300mm
适应线径 Appropriate Wire	Φ0.2~Φ1.2mm
适应槽数 Slot Number Range	24~48 slots
电　　源 Power Supply	380V 50/60Hz 3kW
重　　量 Weight	≈800Kg
外形尺寸 Dimension	(L)3210×(W)820×(H)1600mm

三工位嵌线机

Three station winding inserting machine

主要特点

本机为立式三工位定子嵌线机，采用移动式嵌线模具组，一个工位用于配套机械手线将已绕好的线圈转移到该工位，一个工位完成槽模绝缘纸的切冲成型工作，另一个工位用于将线圈嵌入铁芯，具有单齿绝缘纸保护功能，并具有双面机械手装卸料功能，能将嵌好线的定子直接搬运到自动线上。三工位同时工作，工作效率高。

本机采用气动和交流伺服系统结合运动控制系统综合控制。配备人机界面显示，具有动态显示、故障报警显示和各功能参数设置。本机功能先进，自动化程度高，工作稳定，操作简单等特点。





Main Feature

This machine adopts movable winding inserting tooling with three working station. One is used to equip with mechanical arm to transfer the coil to the station. The second one is used to cut and form wedge. The third is used to do coil and wedge inserting. This machine is with single-tooth wedge protective function and two sides' mechanical loading and unloading function. It can transfer the stator to the automatic stator production line. The working efficacy is very high with three working station.

This machine is controlled by motion control system, pneumatic and AC servo system. Equipped with HMI, all the parameter can be displayed and set on the touch screen. With a high automatic level, this machine works stably and the operation step is easy.

机　　型 Model	Q3L1-75/130T
定 子 叠 厚 Stack Height Range	30~90mm
定 子 外 径 Stator O.D	≤Φ150mm
定子内径范围 Stator I.D	Φ40~Φ100mm
定子齿宽 Stator Teeth width	≥4.5mm
适 应 线 径 Appropriate Wire	Φ0.2~Φ1.2mm
气 源 压 力 Air Pressure	0.6~0.8MPa
电　　源 Power Supply	380V 50/60Hz 11kW
重　　量 Weight	≈3500Kg
外 形 尺 寸 Dimension	(L)2550×(W)2230×(H)2300mm

深井泵电机嵌线机

Deep water pump motor winding inserting machine

主要特点

该机型为卧式半自动嵌线机，采用日本三菱交流伺服电机和气动元件系统驱动，由工业可编程PLC综合控制，具有X、Y轴自动送料定子装置，能将线圈和槽楔自动一次嵌入定子槽型中。主要适用于深井泵类电机、及各种超长电机定子的嵌线工艺。

该机配置了人机控制界面，具有状态显示，故障报警，各类参数设置等功能，调整叠厚方便快捷，自动化程度高，能有效的降低操作人员体力。

Main Feature

This is horizontal type semi-auto winding inserting machine. It adopts Mitsubishi AC servo motor and pneumatic element system drive. It is controlled by PLC and equipped with X and Y spindle auto feeding device. It can automatically insert coil and wedge into stator slot simultaneously. It is applied to deep water pump motor and other various type of overlength motor stator.

Equipped with HIM, this machine can display the machine status, alarm information, all the parameters on the touch screen. With a high automation level, this machine can reduce the labor and improve the efficiency.





机　　型 Model	QWB1-600/150
定 子 叠 厚 Stack Height Range	300~600mm
定 子 外 径 Stator O.D	≤Φ100mm
定子内径范围 Stator I.D	Φ50~Φ150mm
适 应 线 径 Appropriate Wire	Φ0.2~Φ1.2mm
气 源 压 力 Air Pressure	0.6~0.8MPa
电　　源 Power Supply	380V 50/60Hz 3.5kW
重　　量 Weight	≈1200Kg
外 形 尺 寸 Dimension	(L)2100×(W)2000×(H)1600mm

全自动绕线嵌线一体机

Automatic stator winding and coil inserting machine

主要特点

该系列机型专为电机定子绕线嵌线而设计，集绕线、制槽契、嵌线于一机；绕线工位自动将线圈整齐的排列到嵌线模中，有效避免了人工挂线造成的线圈交叉、杂乱导致的嵌线断线、伤线，该机带有伤漆膜检测报警功能，也是该机的特色之一；嵌线工位由伺服嵌线，推线、推纸高度等参数可在触摸屏上自由设定；该机多个工位同时进行工作，互不干扰，节省人工，效率高。

Main Feature

This machine is can do coil winding, coil inserting and wedge inserting. During winding, the coil will be auto wound to the tooling, so as to avoid the wire damage and snap caused by wire cross and disorder during manual wire transfer. This machine can detect the wire coating damage. The inserting station is controlled by servo motor. The parameter can be set in the touch screen.

With serval station working simultaneously, this machine is efficiency and saves labor cost.





机　　型 Model	R2QL1-120/150
适应内径 Stator I.D	Φ40mm~Φ110mm
适应外径 Stator O.D	≤Φ150m
叠厚范围 Stack Height	30mm~90mm
适应线径 Appropriate Wire	Φ0.18~Φ1.2mm
并绕根数 Parallel wire no	3
嵌线方式 Winding inserting mode	链式/同芯式 chained/same core
电　　源 Power Supply	380V 50/60Hz 10kW
气源压力 Air Pressureer Supply	0.6~0.8MPa
重　　量 Weight	≈4000Kg
外形尺寸 Dimension	(L)2000×(W)1300×(H)2300mm

嵌线扩涨一体机

Winding inserting and expanding machine

主要特点

本机集嵌线、线圈扩涨整形于一机，主要针对一产品需多次嵌线而设计，嵌线完成后通过高精度移位自动转换至扩涨工位，进行线圈的扩张整形，多次循环嵌线扩涨完成嵌线工作；采用交流伺服控制漆包线的嵌入和槽盖纸的自动插入，扩张通过液压系统完成；通过人机界面可进行各种参数的设置和修改，并具有故障显示、实时报警功能。

Main Feature

This machine is a combination of winding inserting machine and coil expanding machine, suitable for stator which needs to do winding inserting several times. After winding inserting process, it will transfer to expanding station to do coil expanding. It willcirculatethe winding inserting and expanding process till it is finished.

This machine adopts AC servo to control the wire inserting and wedge inserting. The expanding process is controlled by hydraulic system. The parameter can be displayed andset in the HMI.



机　　型 Model	QKW1-300/300
定 子 叠 厚 Stack Height Range	≤300mm
定 子 外 径 Stator O.D	≤Φ300mm
定子内径范围 Stator I.D	≤Φ200mm
适 应 线 径 Appropriate Wire	Φ0.2~Φ1.2mm
油 缸 排 量 Displacement of Cylinder	50L/min
电　　源 Power Supply	380V 50/60Hz 10kW
重　　量 Weight	≈3500Kg
外 形 尺 寸 Dimension	(L)3600×(W)1670×(H)1700mm

卧式单面绑线机

Horizontal Single Side Lacing Machine

主要特点

本机型采用卧式设计结构，单针伺服电机完成角度钩线动作，可编程控制器、人际界面可设定线包跳跃高度、逐槽、跳槽、及花式绑扎，适用于线包高度规格多、铁芯较重的定子；上料采用可移动、可升降、可旋转装置，对取放定子绑扎方便快捷,有效的降低操作人员的工作强度。

Main Feature

It is in horizontal style. Servo motor completes thread hooking; PLC and HMI could set up jumping height of hooking needle, slot-by-slot lacing, slot-skipping lacing or fancy lacing. It is applicable for the stator of multi-height coils and heavy stator. Horizontal style is movable, lifting and direction-adjustable, which is convenient for the lacing and efficiently reduce the labor strength.



机　　型 Model	BXIW1-260/300	BXIW2-300/320
适应内径 Stator I.D	Φ90~Φ180mm	Φ90~Φ250mm
适应外径 Stator O.D	Φ175~Φ300mm	Φ175~Φ320mm
叠厚范围 Stack Height	100~260mm	100~300mm
线包高度 Height of Coil	20~65mm	20~65mm
适应槽数 Slot Number Range	8~48 slots	8~48 slots
电　　源 Power Supply	220V 50/60Hz 4.5kW	220V 50/60Hz 4.5kW
重　　量 Weight	≈600Kg	≈650Kg
外形尺寸 Dimension	(L)1160×(W)1200×(H)1500mm	(L)1500×(W)1200×(H)1500mm

伺服双面绑线机

Servo Double Sides Lacing Machine

主要特点

本机型采用立式放置定子，配备有压紧装置、自动送料装置、自动剪线装置、自动送线装置等，定子两端线包实行双针同时自动绑扎；由伺服驱动系统完成钩针转角钩线工作、定子分度、线包高度（仅限六轴）；人际界面设定可实行逐槽绑扎、隔槽绑扎、跳槽绑扎及各类花式绑扎；本机体积小、速度快、噪音低等优越特点，操作简便，模具更换方便快捷。

Main Feature

Loading stator vertically; equipped with pressing, automatic feeding, automatic cutting device, etc.; overhang winding adopts twin needle lacing by servo system simultaneously; needle transpositioning, hooking and stator indexing are controlled by servo system; spindle adopts characterized by compact appearance, fast speed, low noise; simple operation and easy tooling change.





机　　型 Model	BXSIIL1-160/160-4/6
适应内径 Stator I.D	Φ40~Φ100mm
适应外径 Stator O.D	≤Φ190mm
叠厚范围 Stack Height	18~160mm
线包高度 Height of Coil	≤45/65mm
绑扎方式 Lacing Mode	逐槽/隔槽/花式绑扎 Slot by Slot/Interval Slot/Fancy Lacing
绑线速度 Lacing Speed	0.5s/s
电　　源 Power Supply	380V 50/60Hz 4.5kW
重　　量 Weight	≈600kg
外形尺寸 Dimension	(L)1500×(W)650×(H)1700mm

单面绑线机

Single Side Lacing Machine

主要特点

本机型采用立式放置定子，单针单面线包自动包扎,由伺服驱动系统控制钩针转角完成钩线工作，主轴速度可调；采用工业可编程PLC，人际界面可设定逐槽、跳槽、及花式绑扎；较适合品种杂、产量少或较多引线的定子绑扎工作。

Main Feature

Stator loaded vertically, the machine laces one side firstly, manually turn over and then laces the other side. Needle indexing, hooking are controlled by servo system, the spindle speed is adjustable. The different lacing pattern such as lacing slot by slot, interval slot and fancy could be set. The machine is suitable for multi-size, low quantity stator production.





机　　型 Model	BXIL1-100/135	BXIL2-160/190
适应内径 Stator I.D	Φ30~Φ90mm	Φ35~Φ120mm
适应外径 Stator O.D	≤Φ135mm	≤Φ190mm
叠厚范围 Stack Height	10~100mm	40~160mm
线包高度 Height of Coil	≤40mm	≤60mm
绑扎方式 Lacing Mode	逐槽/隔槽/花式绑扎Slot by Slot/Interval Slot/Fancy Lacing	逐槽/隔槽/花式绑扎Slot by Slot/Interval Slot/Fancy Lacing
绑线速度 Lacing Speed	0.6s/s	0.8s/s
电　　源 Power Supply	380V 50/60Hz 3.5kW	380V 50/60Hz 3.5kW
重　　量 Weight	≈400kg	≈450Kg
外形尺寸 Dimension	(L)1000×(W)600×(H)1250mm	(L)1000×(W)600×(H)1300mm

全自动四工位绑线机

Automatic four stations lacing machine





主要特点

本机型采用转盘四工位绑线机构，配备有物料压紧、自动送料、自动送线、自动打结、自动剪线烫线、自动清理线头等装置；定子两端线包实行双针同时自动绑扎；由五轴伺服驱动系统完成钩针转角钩线、定子分度、定子换产参数调整等动作；人际界面设定可实行逐槽、隔槽、跳槽及各类花式绑扎；本机拥有定位精确、速度快、噪音低、模具更换便捷等优点；全自动运作无需人工现场操作，亦可配定子全自动线应用。

Main Feature

This machine adopts turntable plates structure with four working station, equipped with stator pressing device, auto feeding device, auto wire feeding device, auto knotting device, auto cutting device and ect. Overhang winding adopts twin needle lacing simultaneously. Needle transpositioning, hooking and stator indexing are controlled by five spindle servo system.

Different lacing pattern can be set, such as slot by slot lacing, interval slot lacing and fancy lacing. With fast speed, low noise, simple operation and easy tooling change, this machine can be connected to automatic stator production line.Continuous/discontinuous winding way and meets the 2 poles, 4 poles, and 6 poles coils winding.

机　　型 Model	BXSIIL4-160/160
适应内径 Stator I.D	≤Φ100mm
适应外径 Stator O.D	Φ60-Φ135mm
适应叠厚 Stack Length Range	30-100mm
线包高度 Height of Coil	≤45mm
生产节拍 Pitch time	≤0.5s/s
气源压力 Air Supply	0.4~0.6MPa
电　　源 Power Supply	380V 50/60Hz 6kW
重　　量 Weight	≈1500Kg
外形尺寸 Dimension	(L)2000×(W)1100×(H)1900mm

预整机

Pre-forming machine

主要特点

本机液压系统作为主动力，上下各四根轴承钢导柱作为导向，上下滑板在液压油缸的推动下，通过内涨外扩来实现整形工作。为定子两侧线包进行初步整形的设备；方便二次嵌线和插入隔相纸，确保后续中间整形的质量。

Main Feature

this is hydraulic pressing system, guided by 4 pillars, pushed by oil cylinder, the upper and down sliders expands the inner shape of the coil over-hang, it effectively facilitate the second time coil insertion and easy the operator to putt the phase separator in between the coils..





机　　型 Model	Z1XJ1-150/160	Z1XJ2-200/210
叠厚范围 Stack Height	20~150mm	20~200mm
定子内径 Stator I .D	Φ30~Φ120mm	Φ30~Φ140mm
定子外径 Stator O .D	≤Φ160mm	≤Φ210mm
油缸排量 Displacement of Cylinder	20L/min	20L/min
电　　源 Power Supply	380V 50/60Hz 1.5kW	380V 50/60Hz 1.5kW
重　　量 Weight	≈500Kg	≈500Kg
外形尺寸 Dimension	(L)1140×(W)900×(H)2540mm	(L)1200×(W)920×(H)3270mm

进出工位中间整形机

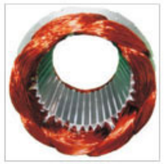
Middle forming machine (with auto slider and protective teeth)

主要特点

本机型为液压系统作主动力，工业可编程PLC控制，每槽单一护齿插入整理漆包线逃线，飞线有效的确保爬电距离的可靠性；内涨外包端部压形的整形原理设计，有效的保证定子绑扎前的整形尺寸与美观。

Main Feature

This is hydraulic, PLC controlled coil forming machine. The machine expands the inner of the over-hang and wraps the external of the over-hang during forming process, it effectively ensures the over-hang dimension and the appearance. The forming processes for the ID, OD and height of the coil finish in one time, the protective teeth could ensure the sufficient creepage distance.





机　型 Model	Z2XL1-150/160T	Z2XJ2-200/210T
叠厚范围 Stack Height	20~150mm	80~200mm
定子内径 Stator I .D	Φ30~Φ110mm	Φ80~Φ150mm
定子外径 Stator O .D	≤Φ160mm	≤Φ210mm
油缸排量 Displacement of Cylinder	20L/min	20L/min
电　源 Power Supply	380V 50/60Hz 3.75kW	380V 50/60Hz 3.75kW
重　量 Weight	≈500Kg	≈600kg
外形尺寸 Dimension	(L)1300×(W)1000×(H)2400mm	(L)1850×(W)1200×(H)2700mm

翻转工位中间整形机

Stator middle forming machine with upender

主要特点

该机型使用翻转进出工位结构设计，并与上下物料，减轻操作的强度，便于定子的定位。

涨机以液压系统作主动力，工业可编程PLC控制，每槽护齿插入，有效的防止漆包线的塌陷，槽底纸的损伤、塌陷。有效的保证定子绑扎前的整形尺寸与美观。线包的高度可根据实际情况进行调节，模具替换快捷方便。该产品技术成熟、工艺先进、质量可靠，使用、维护方便。

本产品适用于空调电机、压缩机电机、发电机电机、及汽车电机等类型的适外径及高度较大的定子感应马达

Main Feature

This machine adopts auto slider and upender structure, making stator loading and unloading easy.This machine adopts whole hydraulic system and PLC program. The protective teeth can efficiently avoid the copper wire enamel broken, slot paper and wedge damage. It can effectively ensures the over-hang dimension and appearance before lacing process. The over-hang height can be adjusted as per requirement. With reliable quality and mature technology, this machine is easy to operate and maintain. Tooling change is also fast and easy.

This machine is suitable for air conditioner motor, compressor motor, generator motor, automobile motor and other induction motor with a high stator height.



机　型 Model	Z2XJ3-300/300F
叠厚范围 Stack Height	≦300mm
定子内径 Stator I .D	Φ30~Φ187mm
定子外径 Stator O .D	≦Φ300mm
油缸排量 Displacement of Cylinder	30L/min
电　源 Power Supply	220V/380V-50HZ
重　量 Weight	2500KG
外形尺寸 Dimension	(L)2050X(W)930X(H)3180mm

进出工位最终整形机

Final Forming Machine (with auto slider)

主要特点

本机型采用液压系统作主动力,进出工位结构；工业可编程PLC控制;模具设计采用内涨外包,端部压形伸缩原理实现定子线圈的最终成形,成形尺寸精确,整形美观。



Main Feature

Driven by hydraulic system; PLC programming; tooling design adopts flexible principles of inner expansion, outer wrapping and edge forming to form the stator winding; to ensure appropriate winding outside dimension after lacing.



机　型 Model	Z3XL1-150/160	Z3XJ1-200/210
叠厚范围 Stack Height	20~150mm	80~300mm
定子内径 Stator I .D	Φ30~Φ110mm	Φ80~Φ140mm
定子外径 Stator O .D	≤Φ160mm	≤Φ250mm
油缸排量 Displacement of Cylinder	20L/min	20L/min
电　源 Power Supply	380V 50/60Hz 1.5kW	380V 50/60Hz 1.5kW
重　量 Weight	≈500Kg	≈600Kg
外形尺寸 Dimension	(L)1080×(W)850×(H)2170mm	(L)1630×(W)900×(H)2630mm

翻转工位精整机

Stator final forming machine with upender

主要特点

该机型使用翻转进出工位结构设计，并与上下物料，减轻操作的强度，便于定子的定位。涨机以液压系统作主动力，工业可编程PLC控制，每槽双护齿插入，有效的防止漆包线的塌陷，槽底纸的损伤、塌陷。有效的保证定子最终整形尺寸与美观。线包的高度可根据实际情况进行调节，模具替换快捷方便。该产品技术成熟、工艺先进、质量可靠，使用、维护方便。

本产品适用于空调电机、压缩机电机、发电机电机、及汽车电机等类型的适外径及高度较大的定子感应马达

Main Feature

This machine adopts auto slider and upender structure, making stator loading and unloading easy.This machine adopts whole hydraulic system and PLC program. The protective teeth can efficiently avoid the copper wire enamel broken, slot paper and wedge damage. It can effectively ensures the final over-hang dimension and appearance. The over-hang height can be adjusted as per requirement. With reliable quality and mature technology, this machine is easy to operate and maintain. Tooling change is also fast and easy.



机　型 Model	Z3XJ3-300/300F
叠厚范围 Stack Height	≦300mm
定子内径 Stator I .D	Φ30~Φ187mm
定子外径 Stator O .D	≦Φ300mm
油缸排量 Displacement of Cylinder	30L/min
电　源 Power Supply	220V/380V-50HZ
重　量 Weight	2500KG
外形尺寸 Dimension	(L)2050X(W)930X(H)2760mm

卧式中间整形机

Horizontal type middle forming machine

主要特点

本机适用于大功率定子、较高定子（如深井泵定子）或大体积定子端部线圈的整形，整体设计结构为卧式，自动进出工位，工件取放采用可升降可移动式吊具；采用内涨、外包、端部原理整形，可编程PLC控制，人机界面可设定、保压时间等。

Main Feature

This machine is suitable for big power stator, long stack length stator(deep-well pump stator) or other big dimension stator. It is horizontal type with a auto slider. Stator can be moved by lifting device. Tooling adopts flexible principles of inner expansion, outer wrapping and edge forming. It is controlled by PLC. The parameter can be set in the HMI.



机　型 Model	Z2XW2-400/300
叠厚范围 Stack Height	≤400mm
定子内径 Stator I .D	Φ50~Φ200mm
定子外径 Stator O .D	≤Φ300mm
油缸排量 Displacement of Cylinder	50L/min
电　源 Power Supply	380V 50/60Hz 4kW
重　量 Weight	≈2000Kg
外形尺寸 Dimension	(L)4400×(W)1850×(H)1350mm

卧式最终整形机

Horizontal Final Forming machine

主要特点

本机适用于该机型才用卧式进出工位结构设计，便于上下物料。更换模具时，仅需要将拖块、内涨芯及上定子固定套更换即可；模芯采用快拆结构，拖块及定子固定套仅需要松开螺丝即可快速更换；采用高硬度尼龙材料，加工周期短，同时使得更换模具更加轻便。

采用液压系统作为动力，工业编程PLC控制；模具采用内涨、外包、端部压形伸缩原理实现定子线包的最终成型，成型尺寸精确，整形美观。大功率定子、较高定子（如深井泵定子）或大体积定子端部线圈的整形，整体设计结构为卧式，自动进出工位，工件取放采用可升降可移动式吊具；采用内涨、外包、端部原理整形，可编程PLC控制，人机界面可设定、保压时间等。

Main Feature

This machine is horizontal type so as to easily load and unload stator. It is driven by hydraulic system, and controlled by PLC. It expands the inner of the over-hang during forming process; it effectively ensures the over-hang dimension and the appearance. During tooling change, just change the block, inner expansion core and upper stator fixing sleeve. The core adopts quick release structure. For the block and upper stator fixing sleeve, it can be quickly changed by loosening the related screws.

It is horizontal type with a auto slider. Stator can be moved by lifting device. Tooling adopts flexible principles of inner expansion, outer wrapping and edge forming. It is controlled by PLC. The parameter can be set in the HMI.



机　型 Model	Z3XW2-400/350
叠厚范围 Stack Height	≤100-400mm
定子内径 Stator I .D	Φ80~Φ230mm
定子外径 Stator O .D	≤Φ350mm
油缸排量 Displacement of Cylinder	40L/min
电　源 Power Supply	380V 50/60Hz 4kW
重　量 Weight	≈1800Kg
外形尺寸 Dimension	(L)2550×(W)1930×(H)2200mm

双工位轮毂电机绕线机

Double Station Wheel Motor Winding Machine

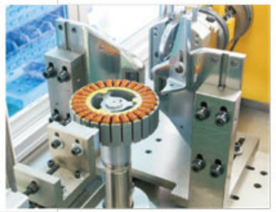
主要特点

本机型专为轮毂电机绕线而设计，整机采用伺服电机控制系统实现产品绕制；人际界面具有故障诊断、产量计存等功能，可设定自动绕线、多线径绕线、自动分度、自动跨槽、绕线速度等参数设定；操作简单、生产效率高等特点。

Main Feature

The machine is designed for the wheel motor coil winding . It equips with the servo control system,
It could diagnose the fault, count the output. etc. The other function such as auto winding, multi-diameter wires winding, auto indexing, auto skip slot and winding speed could be programmed. The machine is easy operated, easy maintained.





机　型 Model	DCRX1-200
适用线径 Wire Diameter	0.2~1.3mm
定子直径 Stator Diameter	Φ80~Φ200mm
绕线根数 Parallel wire no.	1~9
定子高度 Stator Height	18~35mm
电　源 Power Supply	220V 50/60Hz 1.5kW
重　量 Weight	≈700Kg
外形尺寸 Dimension	(L)1300×(W)800×(H)1500mm

轮毂电机插纸机

Wheel motor paper inserting machine

主要特点

本机专门为轮毂电机定子放置绝缘纸而设计，采用步进电机送纸，极大地提高了轮毂电机插纸效率。工作频率可无级变速，整机无明显振动、噪音，定子无因插纸而引起翘片、变形等现象。通过人机界面可设定定子槽数、送纸速度、分度速度、分度方向等功能。

Main Feature

The machine is designed for wheel motor stator slot paper insertion. It adopts servo working system which dramatically improve the paper inserting efficiency. The parameter of stator slots number, feeding speed, indexing speed and indexing direction canbe set in the HMI.



机型Model number	DCCZ1-200
适应外径Stator OD	80-200mm
适应叠厚Stack length range	18-35mm
绝缘纸厚度Insulation paper thickness	0.188-0.35mm
电源Power supply	220V 50/60Hz 1.0kW
重量Weight	350kg
外形尺寸Dimension	(L)500×(W)550×(H)1500mm



双工位轮毂插片机

Double station wheel motor wedge inserting machine

主要特点

本机采用伺服驱动分度转位，以气动方式完成自动送料、自动插片。工作频率可无级变速、整机无明显振动、噪音。人机界面可设定定子槽数、插片槽数，插片用完后会自动报警提示。



Main Feature

Indexing automatic by servo system, wedge feeding and inserting pneumatically. The working frequency is infinitely variable speeds. The slot number and wedge inserting slot can be set in the HMI. After wedge run out, machine will auto alarm.





机型Model number	DCCP2-200
适应外径Stator OD	150-200mm
适应叠厚Stack length range	18-35mm
插片厚度Wedge thickness	3.5mm-6mm
生产节拍Pitch time	30S/1pc
电源Power supply	220V 50/60Hz 0.6Kw
重量Weight	350Kg
外形尺寸Dimension	(L)1650×(W)450×(H)1500mm

双头槽盖纸成型机

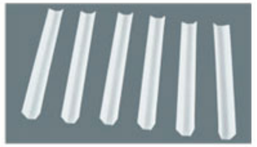
Double heads wedge forming and cutting machine

主要特点

本机采用步进电机送纸，双列模具切纸功能，人机界面直接输入送纸长度，切纸速度可调，成形前有加热装置并可调节温度。

Main Feature

Paper feeding is driven by stepping motor; double row mould for paper cutting, feeding length can be input in human-machine interface, cutting speed is adjustable, there is heating device before forming, and heating temperature is adjustable.





机　型 Model	CG1-100
送纸长度 Feeding length	10~1000mm
切纸厚度 Cutting thickness	0.2~0.5mm
切纸速度 Cutting speed	≈0.5S/片
电　源 Power supply	220V/50/60Hz
重　量 Weight	≈150Kg
外型尺寸 Dimension	(L)450×(W)650×(H)1100mm

槽底纸成型机

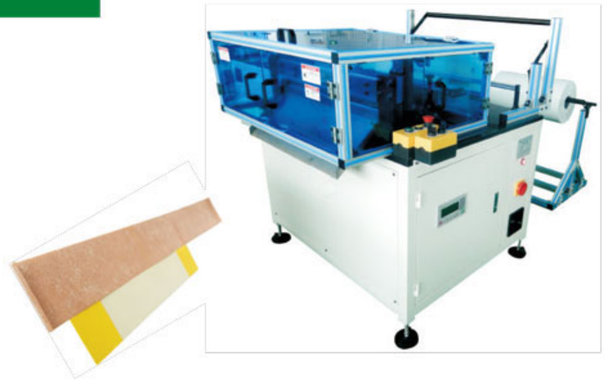
Insulation paper forming and cutting machine

主要特点

本机采用步进电机实现送纸，折边、送纸长度、宽度可调，可设定定产定量；适用于手工制造电机、品种型号杂的厂家绝缘纸的裁切（可定制加热成型）。

Main Feature

Paper feeding is driven by stepping motor, edge folding, feeding length, width is adjustable, and fixed output can be set; suitable for manual motor manufacturer and manufacturer who has varies of motor models. (Heating function can be requested.)



机　型 Model	CD1-300	CD2-400	CD3-600
送纸长度 Feeding length	10~1000mm	10~1000mm	10~1000mm
切纸宽度 Cutting width	≤300mm	≤400mm	≤600mm
切纸厚度 Cutting thickness	0.1~0.35mm	0.2~0.5mm	0.2~0.5mm
折边宽度 Width of edge folded	2~4或4~7mm	2~4或4~7mm	2~4或4~7mm
电　源 Power supply	220V/50/60Hz 0.5kW	220V/50/60Hz0.5kW	220V/50/60Hz0.5kW
重　量 Weight	≈180kg	≈230kg	≈280kg
外型尺寸 Dimension	(L)1100×(W)850×(H)1200mm	(L)1100×(W)850×(H)1200mm	(L)1100×(W)850×(H)1200mm

槽楔扩涨机

Wedge expanding machine

主要特点

该机器采用卧式结构，气动系统作为动力源；相同槽口和内径的定子可共用模具，扩涨片两端扩涨行程同步，不需要掉头进行二次扩涨，可根据实际要求调整扩涨片行程；本机采用脚踏开关启停，操作简单方便，对槽楔、绝缘纸及线包无损伤，扩涨后槽楔仍在正确的位置等特点。

Main Feature

Adopt horizontal structure, pneumatic system as main power; stator with same slot width and internal diameter can share one tooling, stroke of both ends of expanding blades is synchronous, no need two times expending, and expending blade stroke can be adjusted as per requirement; Footswitch controls ON/OFF, easy operation, and no damage to wedge, insulation paper and coil, wedge is still at right position after expending.



机型 Model	KC1-160/160
适应外径 Stator O.D	≤160mm
适应内径 Stator I.D	50~110mm
适应叠厚 Stack height	20~200mm
扩涨片行程 Expending blade stroke	≤3mm
电源 Power supply	220V 50/60Hz
重量 Weight	250kg
外型尺寸 Dimension	(L)1150×(W)500×(H)1000mm

定子双工位内绕机

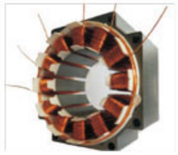
Stator winding machine (with two working station)

主要特点

主要针对无刷电机的生产，采用双工位设计，采用伺服精准定位，可全自动一次完成自动缠线头线尾，自动绕线，自动排线，自动转位，自动夹剪绕线，自动脱模等动作，特别适用于风扇电机、无叶风扇电机、直流无刷电机。

Main Feature

The machine is suitable for winding BLDC stator, It equips with servo system, It can automatically intertwine wire end, winding, arraying, indexing, cutting,demolding.





机　型 Model	RXN2-150/100
适应内径 Stack I.D	≥50mm
适应外径 Stack O.D	≤150mm
叠厚范围 Stack Height	10~100mm
适绕线径 Suitable Wire Diameter	Φ0.3~Φ1.4mm
电　源 Power Supply	220V 50/60Hz
重　量 Weight	≈750Kg
外形尺寸 Dimension	(L)1400×(W)1000×(H)2000

内定子绝缘纸插入机

Inner stator insulation paper inserting machineg

主要特点

该机型专为内定子插纸而设计，采用机械传动系统、伺服系统和气动系统高效的自动完成物料定位、物料压紧、送纸、成型、推纸等工作；加入了绝缘纸两端倒角功能，有效解决了绝缘纸干扰绕线问题，大大提高了合格率。本机操作调整简单、自动化程度高，特别适用于串激电机、无刷电机、步进电机定子绝缘纸插入。

Main Feature

This machine is designed for inner stator to do insulation paper inserting. It adopts mechanical driven system, servo system and pneumatic system. As a result, the machine can automatically do positioning, pressing, paper feeding, paper forming, paper pushing. The paper edge can be auto chamfered so as to solve the winding problem caused by paper, and improve the percent of pass of stator. This machine is easy to operate, of high automation, and suitable forseries motor, BLDC motor and stepping motor stator.



机　型 Model	CZNL1-100/135
适应内径 Stack I.D	≥30mm
适应外径 Stack O.D	≤135mm
叠厚范围 Stack Height	10~100mm
材料厚度 Material’ s Thickness	≤0.3
电　源 Power Supply	220V 50/60Hz 3kW
重　量 Weight	≈400Kg
外形尺寸 Dimension	(L)1500×(W)650×(H)1480

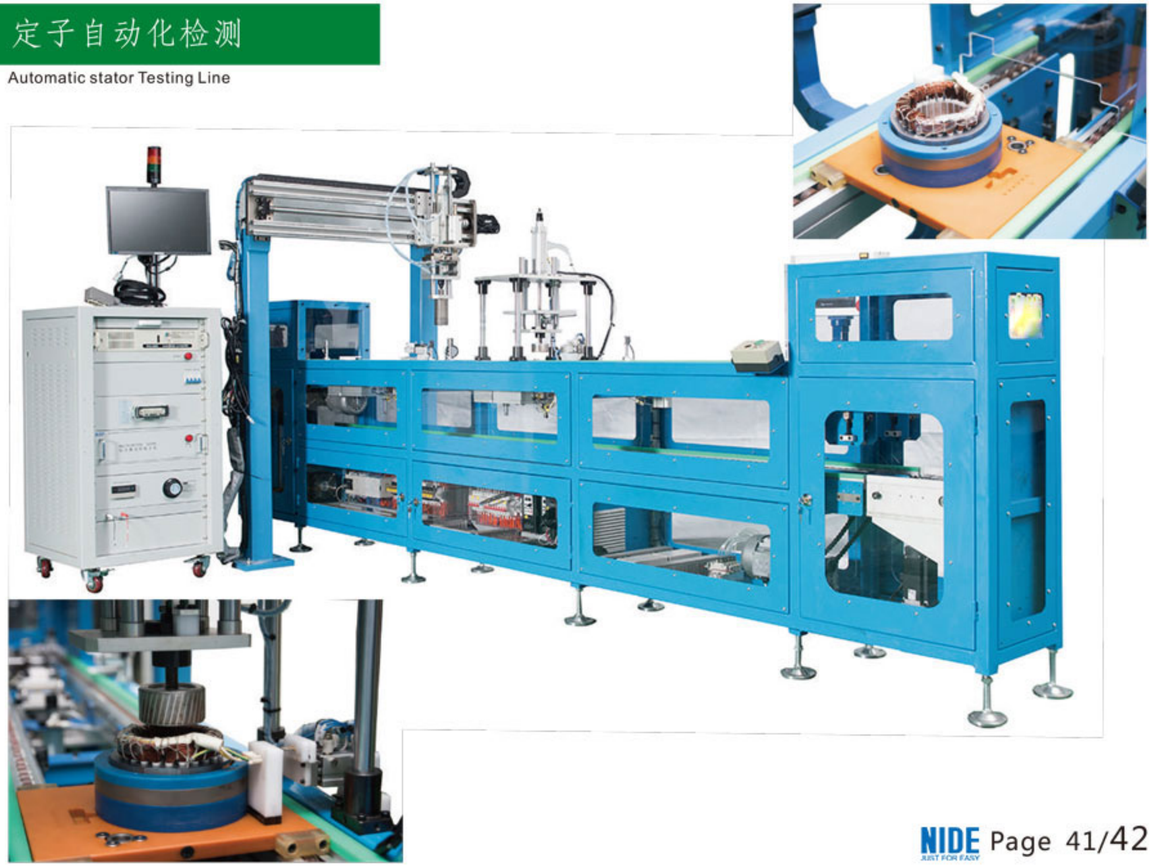
定子自动化生产线

Automatic stator Production Line



定子自动化检测

Automatic stator Testing Line



设备订购所需产品资料

Information Needed For Equipment Ordering

序号No.	机型 Model	所需资料Drawings Required
1	绕线机 Coil Winding Machine	绕组图（含线径）、线包展开图 Winding Drawing,Winding Distribution Drawing
2	绝缘纸插入机 Insulation Inserting Machine	冲片图、铁芯图（含叠厚明细） Lamination Drawing,Stator Stack Drawing
3	定子嵌线机 Coil Inserting Machine	冲片图、铁芯图(含叠厚明细)、绕组图（含线径）、线包展开图、槽楔图 Lamination Drawing,Stator Stack Drawing,Winding Drawing,Winding Distribution Drawing,Wedge Drawing
4	预整形机 Pre-forming Machine	冲片图、铁芯图（含叠厚明细）、线包端部尺寸图 Lamination Drawing,Stator Stack Drawing,Winding Drawing
5	中间整形机 Middle Forming Machine	冲片图、铁芯图（含叠厚明细）、线包端部尺寸图 Lamination Drawing,Stator Stack Drawing,Winding Drawing
6	绑线机 Coil Lacing Machine	冲片图、铁芯图（含叠厚明细）、线包端部尺寸图 Lamination Drawing,Stator Stack Drawing,Winding Drawing
7	最终整形机(精整机) Final Forming Machine	冲片图、铁芯图（含叠厚明细）、线包端部尺寸图 Lamination Drawing,Stator Stack Drawing,Winding Drawing



模具/其它配件

Tooling/Other Spare Parts



挂线杯
Transfer jig



立绕模具
Auto coil winding form



线圈绕线模具
Semi coil winding form



储存条
Depot blade



推纸杆
Wedge pusher



嵌线模具
Inserting tooling



导条
Lamella



副推头
Auxi pusher



整形模具
Middle forming tool



护齿片扩涨片
Protective teeth expending blade

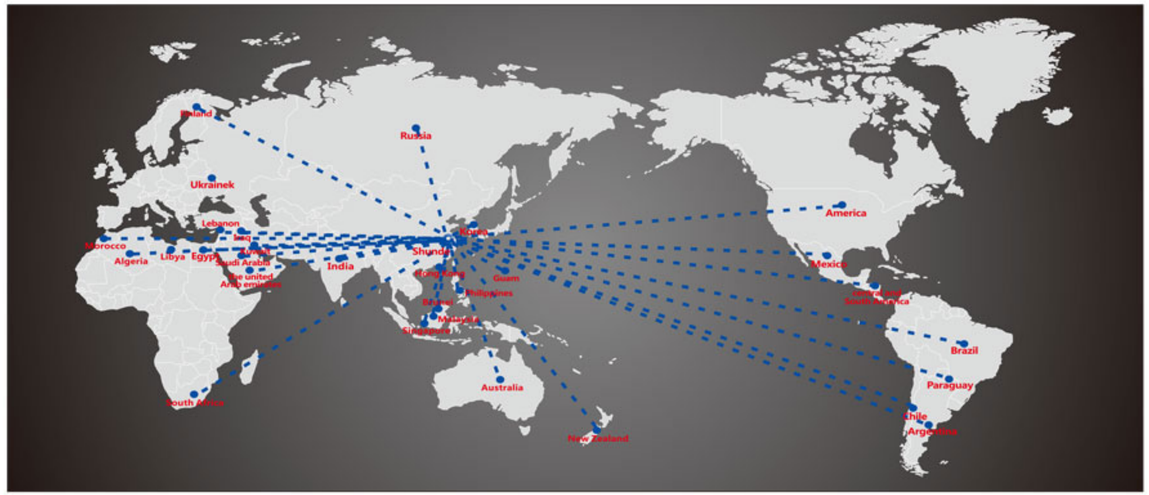


插纸模具
Paper inserting tool



铜推头
Wire pusher

营销网络/Distribution Network



部分客户/Some Customers

SIEMENS
南阳防爆集团股份有限公司
南京森元机电有限公司 南京起重电机总厂
Nidec All for dreams 尼得科电机
HYOSUNG 韩国晓星集团
ROTOMAG 印度ROTOMAG
YILMAZ REDUKTOR 土耳其耶尔马兹
DLONG 卧龙
SXDJ SHANXI ELECTRIC MACHINE FACTORY
六安江淮电机有限公司
上海电驱动股份有限公司
江苏三江电器集团 JIANGSU SANJIANG ELECTRIC GROUP
Volt elektrik motorları
WNM 皖南电机
凯泉集团 KAIQUAN GROUP
embraco
REGAL 雷勃电气(常州)有限公司
ZOOA 中达电机股份有限公司
LAFERTGROUP 意大利拉法特
伊朗MOTOGEN

售后服务/After-sales Service

本格未来：

弘扬地方文化 打造一流团队

融入世界经济 争创特色品牌

勤劳、执着、创新的本格人，凭借产品质量和服务取得了一定的成绩，获得了客户的好评，我们将继续秉承以人为本、格物致知的理念，以零起点的心态继续努力，积极面对未来的激烈竞争，立足本土，放眼全球，实现多元化经营，打造一个生命力强大的本格品牌。

万里关山从头越，乘风破浪正当时。本格企业愿与社会各界朋友一道，携手共创辉煌。



售后服务分布

国内：天津 山东威海 四川重庆

江苏苏州 浙江台州 宁波 福州福安

国外：印度哥印拜陀 新德里 土耳其伊斯坦布尔

24小时内采取行动

Take action within 24 hours