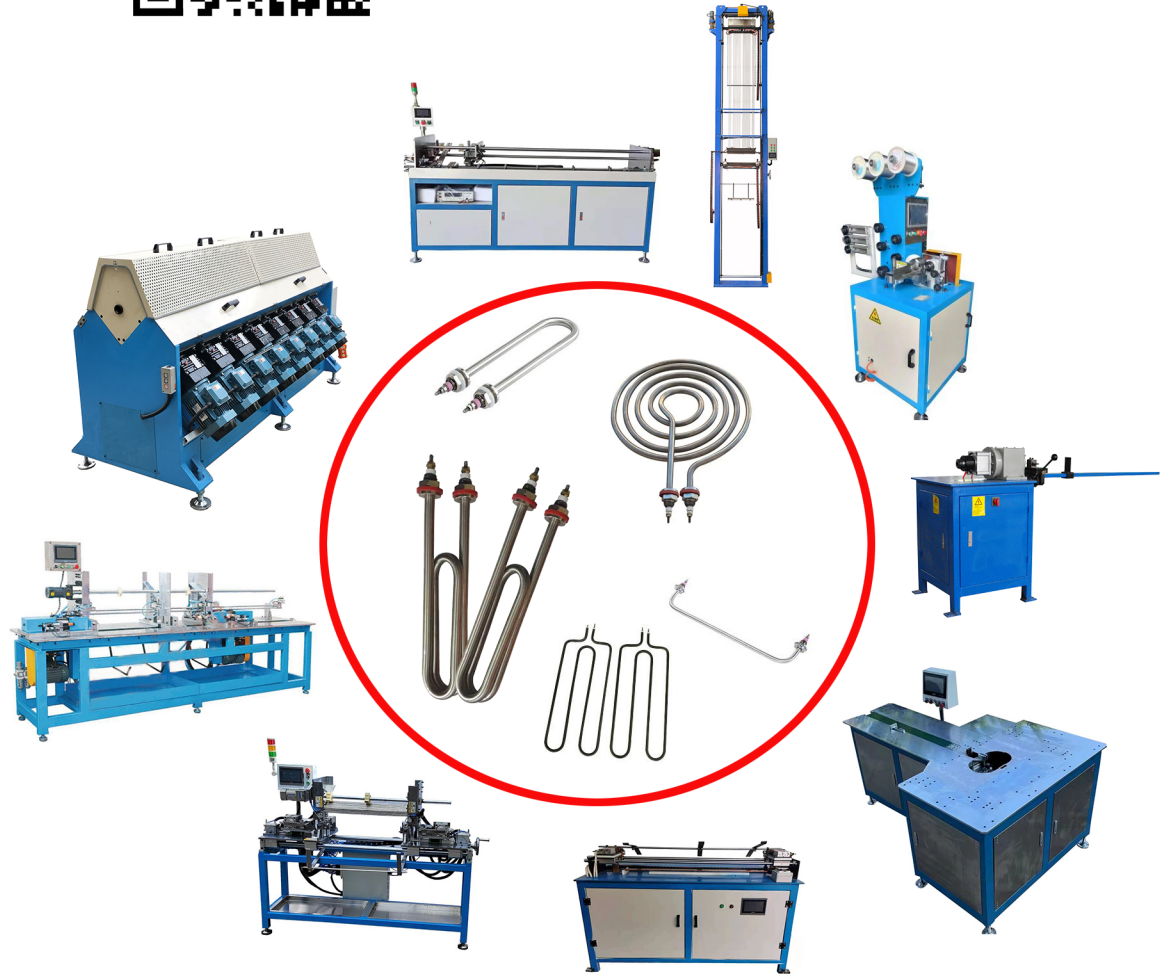


Zhaoqing City Greater Technology Co., Ltd

Heater Machines & Materials supplier



heater-machines.com

Thank you for your interest on our products, here is our 2023 catalog.

We keep improving current machines and supply latest products all the time, please keep in touch with us. Thanks for your interest!



Zhaoqing City Greater Technology Co., Ltd focuses on electric heater machineries and heating element supplies.

Greater offers tubular heater machineries: cartridge heater machinery, hot runner heater machinery, industrial heater machinery, heater supplies, and heater manufacturing raw materials.

The machines including tube cutting machines, resistance wire winding machines, welding machines, plug with pin assembling machines, filling machines, feeding machines, diameter-shrinking/reducing machines, trimming machine, anneal machines, bending machines.

And materials and accessories_such as terminal pins, tube material for heating elements, ceramic beads, resistance wires, MGO rods, terminal pins, metal fittings, flanges, and molds etc.

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Tube Cutting Machine



GT-ACT29 Auto Tube Cutting Machine



GT-CT15 (30) Tube Cutting Machine

GT-ACT29 Auto Tube Cutting Machine

★Description

Auto tube cutting machine use to cut tubes for heating elements automatically. Mainly for heater production in large production. Suitable for copper pipes, iron pipes, stainless steel pipes, aluminum pipes, etc.

★Main details

1. Auto feeding, cutting, pipe breaking, and auto unload tubes.
2. Can cut two different length.
3. Only need to manual put the tubes on the rack, and take the finished cut tubes. One person can take care of several machines.
4. Quality pneumatic rotary chuck, to clamp the tube more stable.
5. With touch screen, easy operation.
6. Actions are controlled by time, easy to operate and less failure.
7. Tubes with few burrs after cutting.



GT-CT15 (30) Tube Cutting Machine

★Description

GT-CT15(30) tube cutting machines are semi-auto tube cutting machine designed to meet the requirements of many sizes and small quantity of pipes cutting (such as cartridge heaters). The machine suitable for copper pipes, iron pipes, stainless steel pipes, aluminum pipes, etc.

★Main models and technical parameter rs

Model	Recommend diameter/length	productivity	Feeding speed	power	air supply	size	weight
GT-ACT29	Φ6-15mm; <4500 or 6000mm	5000- 10000pcs/8h	Max 100m/min (can be adjustable)	380V/50Hz/ 0.7Kw	0.5-0.7Mpa	8600*800*1 4500mm	400Kg
GT-CT15 GT-CT30	Φ5-15mm; Φ5-30mm; Length no limit	5000- 10000pcs/8h	/	380V/50HZ/ 0.75KW	0.5-0.7Mpa	800*600*80 0mm	180KG

GT-ASCT19

Auto Coil Tube Straightening and Cutting Machine



GT-ASCT19 Auto Coil Tube Straightening and Cutting Machine

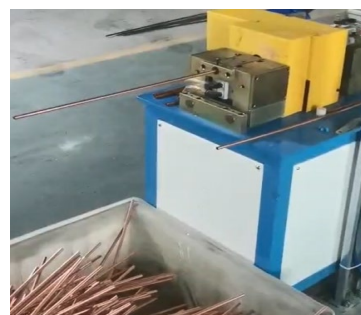
Manual pipe Chamfering machine

★Description

GT-ASCT19 Auto Coil Tube Straightening and Cutting Machine mainly for straighten the coil tube auto, and auto cut the tube according to the length need. Machine suitable for coil copper tube, aluminum tube to straight and cut.

★Main details

1. Suitable OD of tube: $\Phi 4$ - $\Phi 19$ mm;
2. Wall-thickness: 0.2-2.0mm;
3. Feeding speed: 0-60mm/min;
4. Cutting method: rotary cutting;
5. Min length to cut: 25mm;
6. Power supply: 3phase 380V, 50HZ or according to customized;
7. Air supply: 0.4-0.8Mpa clean compressed air;





GT-DJ201 Chamfering machine



★Description

Manual pipe chamfering machine use to chamfer the pipe after cut, to remove the burrs inside the pipe.

★Main details

1. Manual operation, easy work
2. Machine with small size

Semi Auto Tapering Machine

★Description

Semi Auto Tapering Machine use to make one end empty tube in cone shape, which use to measure temperature in water heater.

★Main details

1. Manual operation, easy work.
2. Machine with small size.



GT-LJ202 Semi Auto Tapering Machine

Straightening Machine



GT-TZ3B Straightening Machine

★Description

GT-TZ3B straightening machine is mainly used for straightening and repairing bent steel pipe during pipe-making.

★Main details

1. Min length to straighten: 450mm;
2. Diameter to straighten: recommend Φ 6- Φ 16mm can adjustable.
3. Mainly for empty tube straighten.

★Description

GT-TZ14B Straightening Machine mainly use to straighten heaters after shrink, or combine with shrinking machine to make a line.

★Main details

1. First 4 groups straighten horizontally and later 4 group for vertically.
2. Because the elements will not rotate in high speed during straighten, so after straighten, heater will not leak out powder, will not in different length.
3. Straighten speed can be adjust.
4. Diameter to straighten: recommend 4-10mm (one machine for one diameter)



GT-TZ14B Straightening Machine

★Description

GT-TZ10B straightening machine

install with 10 straighten rollers, which 5 rollers in one side. Each roller can move forward or back, left and right within a range.

★Main details

1. Tube is rotating and moving forward during straighten.
2. Min length to straighten: 400mm.
3. Diameter to straighten: Φ 6-12mm;



GT-TZ10B Straightening Machine



GT-TZJ05B Straightening Machine

★Description

GT-TZJ05B Straightening Machine is improved machine for GT-TZ3B, TZ3B is with 3 group, GT-TZJ05B with 5 groups.

The machine can adjust diameter, and straighten speed.

Finished Sample

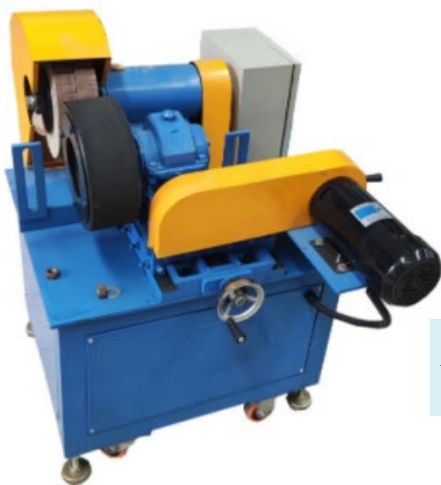


Before

After

Buffing Machine

GT-PG (1-8) Group Buffing Machine



Single buffing machine

★Description

GT-PG(1-8) group buffing machine, mainly to meet the different requirements of surface finish of the heaters by heater factories. There are 1 - 8 groups buffing machines to choose. Polishing wheel is driven by motor high-speed rotation. The pressure wheel is driven by another motor through the reducer. The diameter can be adjusted conveniently, and the axis inclination of polishing wheel can meet the needs of different tube diameter.

★Main details

1. Diameter can adjust.
2. Speed can adjust.
3. Easy operation.



4 group buffing machine



8 group buffing machine

★Main models and technical parameters

Model	diameter/length	Productivity 8H	power	size	weight
GT-PG 1-8 (group)	Φ4-Φ30mm; 300-6000mm;	8000m-9000m	380V/50Hz (1.1*8) Kw	800*900*900; 4800*1200*1100m m;	300KG-3000KG

Resistance Wire Winding Machine



GT-JY036 winding machine, single wheel, 1-3 wire



GT-RS328 PLC winding, single/double wheel, 1-2 wire



GT-RS328 winding machine. Single/double wheel, 1-3 wire



GT-RS328 Winding machine. Single/double wheel, 1-2 wire



GT-RS368 Resistance coil machine, For straight coil



GT-RS368 Resistance coil machine, For coil with big in the middle, small in both end

Resistance Wire Winding machine

★Description

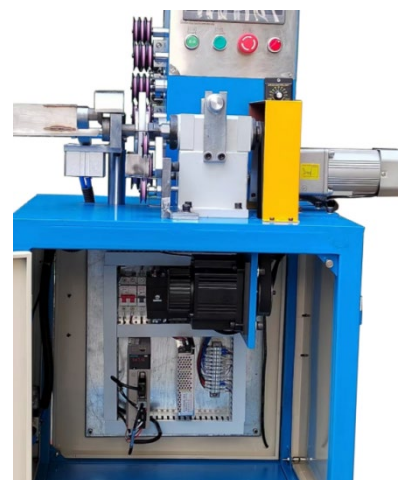
Resistance wire winding machine, which is a machine to coil resistance wire into compact spiral coil. Put the original resistance wire rolls on the shaft rack which with a brake gear, guide the resistance wire to a precision rotating tool by the wire wheel, and coil and compact the wire on the mandrel by an adjustable speed rotary device.

GT-JY036 winding machine is our new winding machine improved in 2023 year, machine with easy operation, with improved disconnection protection device, can set compensation resistor in touch screen easy, max store 10 different designs.

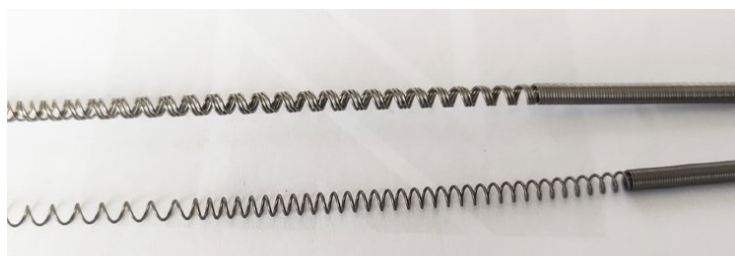
GT-JY036 winding machine can make with servo motor control, with ceramic rolling wheels, which coil quality resistance coil.

The difference between winding machine with PLC or without PLC: Machine with PLC control the length by encode and PLC touch screen. PLC can record and control the number of spiral coils.

GT-RS368 winding coil machine with smooth end cut. If need to auto assemble resistance coil with terminal pin, this machine is recommend .



Finished resistance coil by Resistance wire winding machines



Three/ single wire winding sample



Three resistance wire winding sample

Winding Machine With Tails



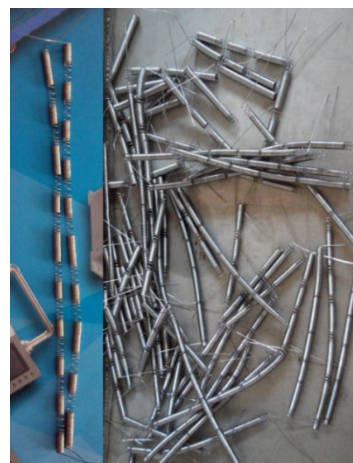
GT-DRS25 PLC
Winding machine with tails



GT-DRS50PLC
Winding machine with tails

★Description

GT-DRS25PLC and GT-DRS50PLC Winding Machine with tails are special machine that automatically winding machine which keeps tails in both ends; The machine adopts **PLC, touch screen and servo motor** to control. With stable performance, and simple operation. It can automatic load the resistance wire - starting - winding - stopping - cutting and taking out the resistance wire.



★Main models and technical parameters

Model	Suggested mandrel	wire diameter	length	power	air supply	size	weight
GT-DRS25PLC	2-3.5mm	Φ0.15-0.6mm	within 450mm or according to customized	220V	0.6Mpa	1200*700*1500	ABOUT 150KG
GT-DRS50PLC	2-4mm	0.15-0.6mm	within 500mm or according to customized	220V	0.6Mpa	1500*700*1400	ABOUT 150KG

Resistance wire winding machine for MGO rod or mica sheet winding (Function 2 in 1)



GT-RS30 Wire Winding Machine

GT-DRS23N Wire Winding machine (Upgraded)

★Description

These machines mainly for resistance wire coil on MGO rod or mica sheets. These machines can make with body frame, or without frame (machine need to put on table).

Machine can make without touch screen (refer GT-RS30), or with touch screen (refer GT-DRS23N).

GT-RS30 Wire Winding Machine

★Main details

- 1. without touch screen and without frame
- 2. with small size, easy operation.
- 3. The machine usually make in 300-500mm long.

GT-DRS23N Wire Winding Machine

★Main details

- 1. With PLC and touch screen, easy adjust.
- 2. Can set different pitch winding.
- 3. Machine with frame, friendly for users.
- 4. The machine usually make in 500mm long.



coil resistance wire on MGO rod.



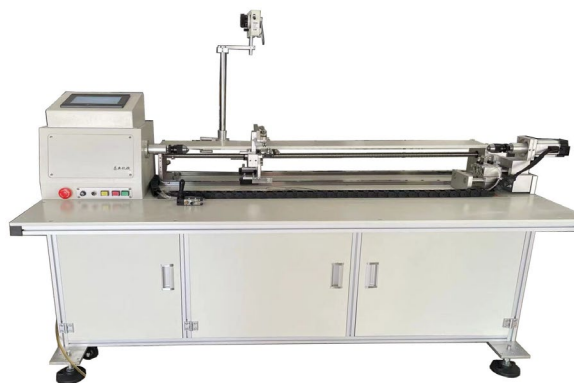
Coil resistance wire on mica sheet

GT-DRS24PLC

Resistance wire winding machine for hot runner heater



GT-DRS24PLC winding machine



GT-RXRLD20 winding machine

★Description

GT-DRS24PLC and GT-RXRLD20 winding machine are controlled by PLC. It is a spiral wire winding machine which is specially designed for flat pipes of *hot runner heaters*.

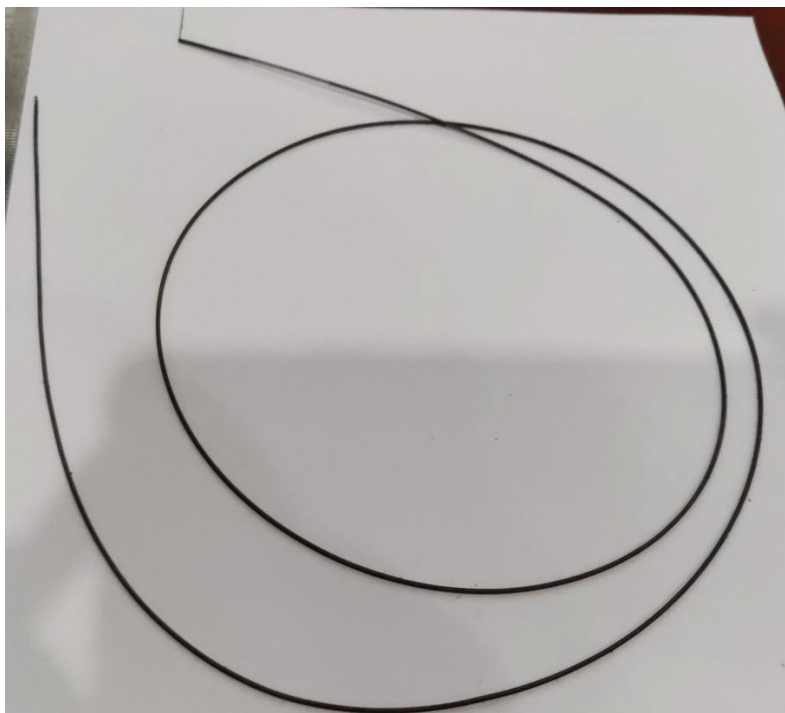
The diameter of the spiral coil is tiny, usually only 0.5mm or less, so it is difficult to operate on other winding equipment.

GT-RXRLD20 is improved machine in 2023 year, with easy operation, stable winding.

★Main details

1. Max length to coil: 2000 mm;
2. Winding speed is adjustable;
3. Suitable for small wire winding for hot runner heaters.

finished sample for GT-DRS24PLC and GT-RXRLD20 winding machine.



Auto Wire Shrinking Machine (for hot runner tube)



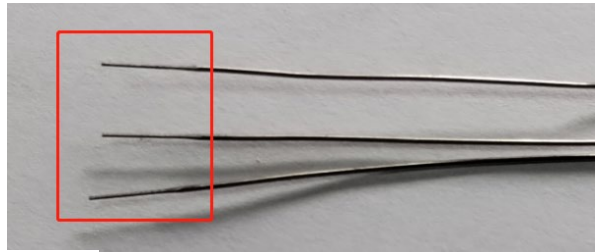
GT-WS201
Auto Resistance Wire Shrinking Machine
(for hot runner)

★Description

GT-WS201 Auto Wire Shrinking Machine use to compress the resistance wire head diameter smaller. Mainly use for hot runner heaters resistance wire.

★Main details

1. Auto feed resistance wire.
2. Auto straight.
3. Auto cut.
4. Auto shrink smaller diameter.



GT-YMRS201 Resistance Winding Machine (for mica sheet)

★Description

GT-YMRS201 Resistance Winding Machine is a winding machine for mica sheet. Mainly use for band heaters.

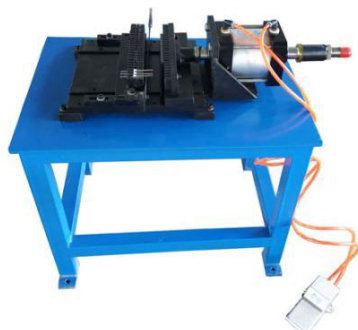
★Main details

1. Can coil round or flat wire.
2. Auto feed mica sheet, max in 1000mm;
3. Auto winding.
4. Power supply: single phase 220V, 50HZ.
5. Motor: 1KW.



GT-YMRS201 Resistance Winding Machine

Plug to pin assembly machine (Sealer Install machine)



GT-YZJ201
 Manual Plug to Pin Assembly Machine



GT-YZJ202
 Automatic Plug to Pin Assembly Machine



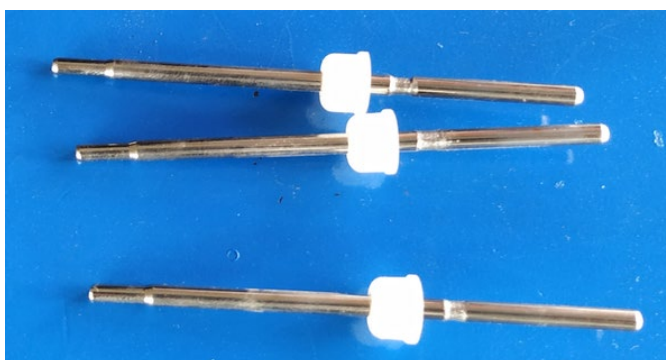
GT-YZJ203
 Automatic Plug to Pin Assembly Machine

★Description

GT-YZJ201 Manual Plug to Pin Assembly Machine

, driven by cylinder, put the terminal pin and plugs(sealers) in the groove, press the foot value or control by electrical button, terminal pin will be automatically install into plug. Load and unload the material are by manual. The machine is easy to operate, and high efficient.

GT-YZJ202, GT-YZJ203 is automatic plug(sealer) assembly machine. Put the plugs(sealers) on the plate and terminal pins on the rack, sealer will be installed on the pin one by one automatically.



★Main models and technical parameters

Model	Touch screen	Pin length	Plug(Sealer) size	Air supply
GT-YZJ201	no	According to customized	One size according to customized	5-8kg
GT-YZJ202	yes	<150mm; <250mm; According to customized;	One size according to customized	5-8kg
GT-YZJ203	yes	45-80mm; According to customized	One size according to customized	5-8kg

Pin Coil Assemble Machine



GT-NS203 Manual pin coil assemble machine



GT-AS201 Auto pin coil assemble machine

★Description

GT-NS203 Manual pin coil assemble machine use to assemble the terminal pin and resistance coil. With this machine, to assemble resistance coil with pins easy and fast.

GT-AS201 Auto pin coil assemble machine is a multi function pin coil machine, the machine auto assemble pin with coil, pin with plug, can add with weld function for pin with coil, with test. It is a auto heating element production line machine.



MGO Powder Filling Machines

Before reduced diameter of tubes, need to fill Magnesium Oxide powder into metal tubes. To make different heaters, we supply: tubular heater filling machine, cartridge heater filling machine, hot runner heater filling machine etc.

MGO Filling Machines

GT-FMPLC (with double centralizing duct 6-48 sections) Filling Machine



8 station
filling machine



24 station filling
machine



48 station filling
machine

★Description

GT-FM series filling machines suitable for fill tubular heaters in long length, different diameter. The heaters fill by FM filling machines are in high density, which can up to 2.3g/cm³ depend to the diameter, MGO powder, filling speed.

There are double centering ducts filling machine and triple centering ducts in FM filling machines. FM filling machine process different length 1000-8000mm according to customized. If configured with different accessories that one machine can fill 1 to 6 different diameters pipes based on customized design.

★Main details

1. Filling station: 6-48 stations according to customized and diameter.
2. Filling diameter: with one diameter on the machine according to customized.
3. Filling length: 300-max length according to customized.

4. Filling speed: 150-500mm / min adjustable.
5. Power supply: AC380V,50HZ.
6. Size of machine: 1700*1000mm*(max length*2+2000)mm (L*W*H)

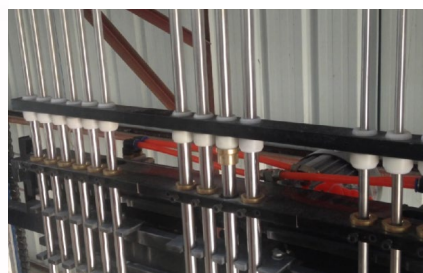
GT-FMPLC (triple centralizing ducts 6-48 station) Filling Machine



18 station filling machine(8+2+8)



24 station filling machine (3+9+9+3)



3 different diameters process on one filling machine(according to customized)

★Description

GT-FM-PLC (triple centering ducts in 6-48 station) MGO powder filling machine, is improved on the basis of GT-FMPLC (double centering ducts in 6-48 station).

The main difference of double guide tubes and triple guide tubes filling machines is as below: Three centralizing ducts filling machine can install different diameters on one machine.

If there are different diameters accessories installed on one machine, you can choose just one, two or any other diameters to fill small quantity one time. Other diameter(s) was not selected will not be filled MGO powder.

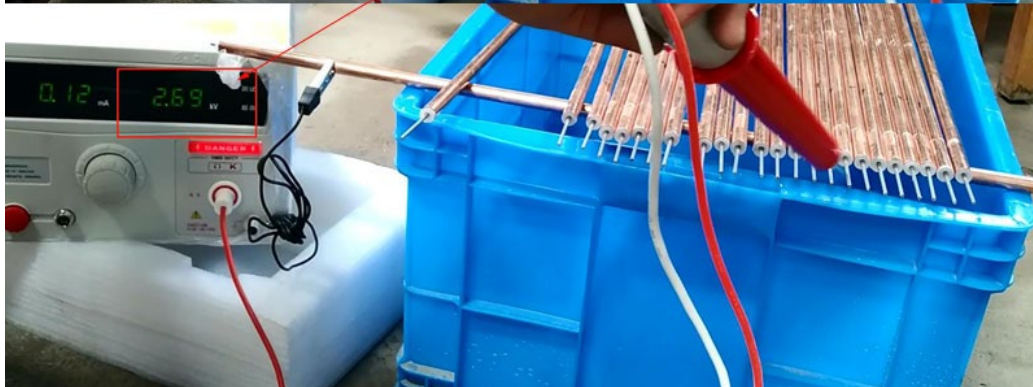
For bulk quantity each diameter suggested use independent machine.

★Main details

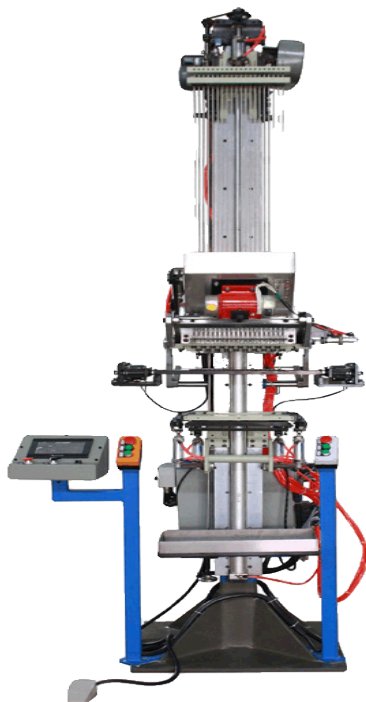
1. Filling station: 6-48 stations according to customized and diameter.
2. Filling diameter: with 1-6 diameters in one machine according to customized.
3. Filling length: 300 ~ max length according to customized.
4. Filling speed: 150 ~ 500mm / min. adjustable.
5. Power supply: AC380V,50HZ.

7. Size of machine: 1700*1000mm*(max length*2+2000)mm (L*W*H)

Finished heater fill by GT-FM filling machines



GT-FF24 Fast Filling Machine Single Centering Duct , GT-FMX-Type Aluminum Filling Machine



GT-FF24 Single Centering Duct Filling Machine



GT-FMX or (—) Type Aluminum Filling Machine

GT-FF24 (single centering duct in 24-36 station) Fast Filling Machine

★Description

GT-FF24 type fast filling machine is a single-column, single-tube structure. The advantage of this machine is that the capacity of the magnesium powder in the catheter is large and the filling speed is relatively fast. It adopts a deceleration motor to drive the conduit mechanism to lift. At the same time, the machine adopts PLC touch screen + encoder control, and the filling set length is more accurate.

The machine features: the filling speed is relatively fast, and can meet the short, large diameter heaters.

GT-FMX-Type Aluminum Filling Machine

★Description

GT-FMX-Type Aluminum Filling Machine also it's a "—" type aluminum tube filling machine. This is a new type filling machine. A specially designed model due to the different internal structure of the filled product.

The machine structure can satisfy the filled working-piece: one, two or three sets of heating wire element. It uses the special vibrator structure, make the products produced more satisfying customer requirements.



Model	diameter/length	control	vibration	power	size(H*L*W)	weight
GT-FF (24-36)	Φ8-Φ28.5mm 250mm-1000mm	PLC+touch screen	mechanical and electromagnetic	220V 50Hz/1.5-2.0KW/0.6Mpa	(4500*1700*1000mm)	800Kg-1200Kg

GT-FMX-Type (6-10)	Φ8-Φ18mm 300mm-2000mm	PLC+touch screen	mechanical and electromagnetic	380V /50Hz/500W/0 .6Mpa	5500*900*16 00mm	800Kg
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★Main models and technical parameters

- **Hot Runner Heater Filling Machine**
- **Industrial /Cartridge Heater Filling Machine**



GT-BFJ12
Hot Runner Heater Filling Machine

GT-DTF03
Cartridge Heater Filling Machine

GT-BFJ12

Hot Runner Heater Filling Machine

★Description

GT-BFJ12 Hot Runner Heater Filling Machine is designed for hot runner heaters or tube has MGO rod inside, which needs to fill more MGO powder to increase density purpose.

Due to the special structure of the hot runner, the length is generally within the range of 150 mm to 2000 mm.



Before fill

After fill

GT-DTF02

Cartridge Heater Filling Machine

★Description

GT-DTF03(6-24)Industrial Heater Filling Machine, this machine is specially designed for cartridge heater.

★Main models and technical parameters

Model	diameter/length to fill	control	vibration	air supply	Size(H*L*W)	weight
GT-BFJ(6-12 station)	Φ2.5-Φ6mm 150mm-2000mm	Manual/auto	mechanical and electromagnetic	0.6Mpa	5500*1000*600 mm	500Kg
GT-DTF02(6-24 station)	Φ8-Φ20mm 200mm-2000mm	Manual/auto	mechanical and electromagnetic	0.6Mpa	/	/

GT-APA201

Automatic upper plug assembly machine



★Description

GT-APA201 automatic upper plug assembling machine, use to assemble upper with plug after heater filled. The machine can save labor cost. Length can be adjust. (Length recommend within 1 meter)

GT-APA201
Automatic upper plug assembly machine

★Main models and technical parameters

Model	Diameter	Length	Control	Power supply	Air Supply
GT-APA201	According to customized	Within 1 meter can be adjustable	With PLC and touch screen	Single phase 220V, 50HZ	0.6Mpa

Feeding Equipment

Auto feeder without / with test Machine

Auto feeding machine before reducing (without or with high voltage test option).

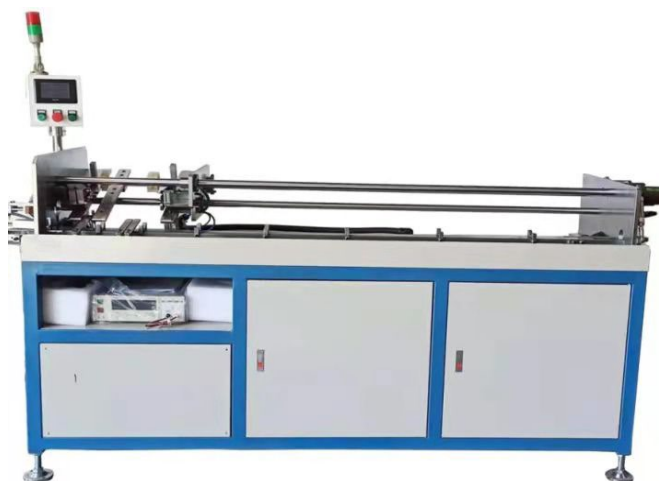
Auto Hi-pot and resistance value test machine after reducing



GT-SL02 Automatic feeder (without test)



GT-SLC03 Automatic feeder with Hi-pot testing(feed by chain)



GT-SLC02 Auto feeder with testing (feed by belt)

★Description

Auto feeder without test/or with test usually match with shrinking machine to work. The heaters will feed auto into shrinking machine to reduce.

Auto feeder with test will test hi-pot of heater before reduce. Qualified heater will auto feed to reduce, unqualified heaters will sorted separately.

Auto feeder machine can feed by chain or feed by belt. By belt is more stable, and less damage for surface of heater.

Tube Diameter Reducing Equipment

Simple reducing machine/Hammer swaging diameter reducing machine.

This machine is suitable for low quantity, or many different sizes.



GT-DG250 Rolling Machine

★Description

GT-DG250 Rolling Mill uses a pair of roller assemble on the machine, and with some holes according to the requirement, rolling the pipes from large to small one by one hole (groove). It can produce circular pipes, square pipes, flat pipes, elliptical pipes in copper, iron, SS, aluminum etc.

★Main details

1. Reduce heater to increase density (for round heater or square heater);
2. Reduce heater by several holes, each hole reduce small range;
3. Specially designed for industrial heater reducing, hot runner heater reducing (recommend match with square heater swaging machine);
- 4 Easy operation, suitable for small quantity production;
5. For heaters not need in strict straightness or good surface;

★Description

GT-SW01 Swaging Machine mainly for hot runner heater diameter reducing. The machine suitable for small diameter round heater reducing.

★Main details

1. Reduce heater to increase density (for round heater);
2. Specially designed for hot runner or cartridge heater industrial heater reducing;
3. Easy operation and molds change easy, Suitable for small quantity and multi-diameters production;
4. One mold in 4 pcs, with good smooth and round finish;
4. Mold in 100mm long;
6. Small size in nice design.



GT-SW01 Swaging machine

Square and Rectangular Heater Swaging Machine



GT-SWS01 swaging machine



GT-SW28 swaging machine

★Description

Square/Rectangular heater swaging machine, specially for reducing square pipe, rectangular pipe. The mold is in four pieces, which install on the shaft. It is an ideal equipment to manufacture high density flat shape hot runner heaters.

GT-SWS01 swaging machine is the *upgraded version* of square/rectangular heater swaging machine improved, with more stable, better quality shrunk.



Round Heater Swaging Machine



GT-SW15/30 Swaging Machine



★Description

GT-SW15/30 **Round Tube Hammer Reducing Machine** is specially designed for industrial heating elements, which in small quantity, and many sizes. It can produce high density cartridge heaters and double end tubular heaters. It is easy and quick to change the molds.

★Main details

1. Reduce heater to increase density (for **round heater**);
2. Specially designed for industrial heater reducing;
3. Easy operation and molds change easy, Suitable for small quantity and multi-diameters production;
4. One mold in 4 pcs, with good smooth and round finish;
5. Small size in nice design.
6. Power: Dia.16 or lest use 5.5KW motor; >17mm use 7.5 KW

GT-JY Shrinking Machines (with 12-18stations)



GT-JY12
12-station shrinking machine



GT-JY16
16-station shrinking machine



GT-JY18
18-station shrinking machine

★Description

GT-JY series Shrinking Machine (12-21 stations) is one popular tubular heater shrinking machine, integrated with iron casted in one machine body, insure sturdy mechanical structure.

Features:

1. The iron casted in one body is rigidity and strength, that ensure processing tube straight in-line, stable, smooth. And rollers will not become loose during rolling;
2. Drives can choose fixed speed or variable speed;
3. Can change rollers to reduce different tube diameter. The rollers are made of tool steel or tungsten carbide sintered alloy to be choose.
4. Equipped with different rollers, can done compressed round, square, or flat shape tubes.
5. If the tube blocked in processing it will automatically stop.
6. Machine can be customized with CNC system to control.

★Main details

Popular station in 12 stations(Roller die section), 16 stations, 18 stations, 21 stations.

1. Diameters range after shrunk: $\Phi 5\text{-}\Phi 20\text{mm}$ (for 12station).
2. Maximum diameter start: $\Phi 23\text{mm}$ (for 12 station).
3. Minimum length start with: 120mm.
4. Shrink process speed: 17.5 meters / min or according to customized.

★Main models and technical parameters

Model	Power supply	Number of roller station	Single power	Motor gearbox	Machine size (M)	Weight (KG)
GT-JY12	3 phase 380V, 50HZ	12 Stations	0.75/1.1KW	Fixed speed Variable speed	1.65*0.85*1.1	1800KG
GT-JY16	3 phase 380V, 50HZ	16 Stations	0.75/1.1KW	Fixed speed Variable speed	2.2*0.85*1.1	2500KG

GT-JY18	3 phase 380V, 50HZ	18 Stations	0.75/1.1KW	Fixed speed Variable speed	2.4*0.85*1.1	2700KG
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GT-JYH12 Hot Runner Shrinking Machine



GT-JYH12
Hot Runner Tube Shrinking Machine

★Description

GT-JYH12 Hot Runner Shrinking Machine is a machine mainly for hot runner heaters, small size heaters shrinking.

★Main details

1. Diameter after shrink: $\Phi 1.2$ - $\Phi 6$ mm;
2. Max diameter before shrink: $\Phi 9$ mm;
3. Min length to shrink: 80mm;
4. Station: 12 stations;
5. Machine can add with CNC system and with touch screen, which will get quality shrunk heaters, less power use, control speed. (For 2.5-1.8mm, recommend use with CNC system)
6. Size: about 1.2*0.85*1.1m
7. Weight: about 1500kg.

GT-JYH12CNC
Hot Runner Tube Shrinking Machine
(with CNC)



GT-JYC12 Cartridge Heater Shrinking Machine



GT-JYC12 cartridge heater shrinking machine

★Description

GT-JYC12 Cartridge Heater Shrinking Machine is a machine mainly for short length cartridge heater diameter shrinking.

★Main details

1. Diameter after shrink: Φ 3.0- Φ 12mm;
2. Max diameter before shrink: Φ 14mm, or depend on customized.
3. Min length to shrink: 80mm;
4. Station: 12 stations;
5. Size: about 1.2*0.85*1.1m
6. Weight: about 1500kg.

GT-JYCNC CNC Shrinking Machine



★Description

GT-JYCNC Shrinking Machine is one upgraded shrinking machine be easy control with PLC and touch screen.

The machine work with less power than other shrinking machine.

Speed can adjust according to different material heaters.

★Main details

1. Diameter after shrink: Φ 5- Φ 20mm according to customized;
2. Station: 12 -18 stations;
3. Speed: Fixed speed or Variable speed.

GT-JYCNC
CNC shrinking machine

GT-JY Shrinking Machine customized with large rollers and shafts

★Description

GGT-JY shrinking machine designed with large rollers and shafts, mainly suitable for bigger diameter and longer heating elements.

The machine made of larger rollers and shafts, with iron casted in one machine body, insure sturdy mechanical structure.

★Main details

1. Roller size: 120mm;
2. Max diameter before shrink: 40mm (according to customized).
3. Minimum length before shrink: 120mm;
4. Station: 18 -24 stations;
5. Speed: uniform speed or un-uniform speed.



GT-JY 24-Stations Shrinking Machine
with larger roller and shafts

GT-SG Shrinking Machines

★Description

GT-SG series machine is our another style shrinking machine, which made with SS plates as main body. The roll assemble can be divided from the body of machine.

This style machine mainly supply from 8-16 stations. According to different diameters, length and user's requirement, can choose machine without gearbox, small gearbox, normal gearbox.

Pics are some popular shrinking machines supplied before.

★Main details

1. Popular station in 12 stations, 16 stations, 8 stations.
2. Gearbox can choose uniform speed, or un-uniform speed according to customized;
3. Change rollers can reduce different diameters, rollers can choose steel rollers or tungsten carbide rollers.
4. Roll assemble (had of shrinking machine) can changed easily.



GT-SGB1-12station



GT-SGB2-12station



GT-SGB2-16station

GT-SMX01 X-shape heater shrinking machine



GT-SMX01 X shape heater shrinking machine



★Description

GT-SMX01 **X-shape heater shrinking machine** use to reduce X shape aluminum Convection Air Conditioner Heater.

★Main details

1. Suitable to reduce X shape heater;
2. Change rollers can shrink different size X shape heaters;
3. Size of heater after shrink: 14.5-18mm;
4. Max size before shrink: $\Phi 22$ mm;
5. Min length to shrink: 120mm;
6. Shrink Speed: about 8 meters per min
7. When heater blocked, the machine will stop.

GT-JYF01 Flat Heater Shrinking Machine

★Description

GGT-JYF01 flat heater shrinking machine use to shrink flat heaters, such as fryer heater, rail melting strip heater.

★Main details

1. Machine with CNC system, shrink quality heaters, easy operation.
2. Nice design with small size.



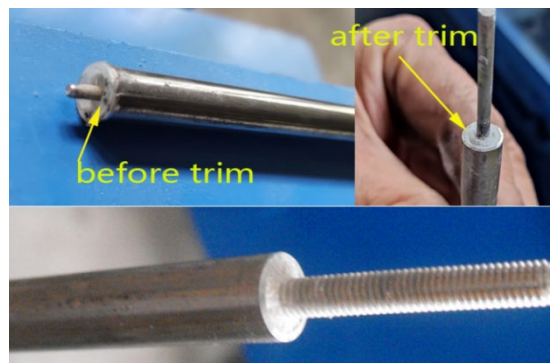
GT-JYF01 flat heater shrinking machine

Trimming Machine; Powder Digging; Pin Cutting Machine

GT-CG30 PLC Automatic Trimming Machine



GT-CG30 PLC Automatic Trimming Machine



★Description

GT-CG30PLC automatic trimming machine is a high-efficiency equipment for tubular heaters. The machine trim both end of heater auto.

★Main details

1. Auto feeding material, auto centering;
2. Auto trimming, auto unload material;
3. With alarm indication;
4. Total output will calculate.
5. With PLC I/O monitoring;
6. Manually put heaters in bulk and take the finished trimmed heater, one person can take in charge of several machines;
7. With touch screen, easy operation;
8. Max length of heater to trim: depend on customized in 1000mm, 1500mm,2000mm. 2500mm; Within the customized length can be adjustable;
9. Recommend diameter of heater to trim: $\Phi 6 - \Phi 14\text{mm}$;

GT-CG30B Semi-Auto Trimming Machine



GT-CG30B Semi-Auto Trimming Machine

★Description

GT-CG30B

Semi-auto trimming machine is mainly for heaters that are difficult to operate on both sides. Such as long, large and curved tubular heaters are suitable. Suitable for pipes in copper, iron, stainless steel, aluminum material, etc.

★Main details

1. Semi-auto , easy operation;
2. Length of heater to trim: no limit;
3. To trim different diameter of heater, need to change mold;
4. Length to trim can be adjustable;
5. Machine with small size;

GT-CTR202 Cartridge Heater Trimming Machine



GT-CTR202 Cartridge Heater Trimming Machine



★Description

GT-CTR202 Cartridge Heater Trimming Machine is a trimming machine mainly for cartridge heaters. This machine with touch screen, work with screw. Machine with stable working.

★Main details

1. Manual load heater, auto trim, easy to run;
2. With touch screen, easy operation;
3. Trimmed dust will fall inside the collect box, less dust during working

4. Nice design, stable working;

MGO Powder Digging Machine



GT-WF201
Manual Powder Digging Machine

★Description

The machine is used to dig the extra magnesium powder at the ends of the heater. For next step for installation of insulating parts such as ceramic pc. There are manual dig powder and auto dig powder machine.



GT-WF202PLC
Automatic Powder Digging Machine

★Description

The machine is used to dig the extra magnesium powder at the ends of the heater. For next step for installation of insulating parts such as ceramic pc. There are manual dig powder and auto dig powder machine.

★Main models and technical parameters

Model	Suitable diameter to turn	Length to trim	Power supply	Air supply	Size
GT-WF202PLC	Round pipe within 6-10mm	300-1000mm (depend on customized)	380V 50HZ 0.55KW*2	0.6Mpa	3200*800*1200
GT-WF201	Round pipe within 5-25mm	Any length	220V 50HZ 0.5KW	0.6Mpa	1200*800*1100

Automatic Pin Cutting Machine



GT-CP025 auto pin cutting machine



★Description

GT-CP025 auto pin cutting machine use to cut both end of terminal pin for tubular heaters.

★Main details

1. Auto feed, auto cut pin, auto unload finished heater;
2. With touch screen, easy operation;
3. Max length of heater to trim: depend on customized. Recommend length within 1000mm;
4. Diameter of heater to trim: according to customized;

GT-ESSM10 End Shrink Swaging Machine



★Description

1. GT-ESSM10 End Shrink Swaging Machine use to shrink the end of teflon heater. By using end shrink swaging machine, heater do not need to glue and spend time for glue to be dry.

★Main details

- 1.Length of shrink can adjustable;
- 2.Change mold can change diameter of heater to shrink;
3. Recommend diameter of heater to shrink: 2.5-10mm.
4. Machine with small size, low noise, and easy adjustment.

GT-ESSM10 End Shrink Swaging Machine

Multi-function Machine



GT-MF01
Pull plug + cut pin machine

★Description

Multi-function machine is combine with different functions on one machine.

For example, a machine combined either **pull plug + cut pin;** or **trimming + cut pin;** or **cut pin+ pin chamfering;** or **stretching + cut pin;**

To make sure machine maintain easy and with high efficiency, recommend machine with 2 functions on the machine.

★Main details

1. Max length of heater: standard 1000mm or according to customized (Max.2m) ;
2. Diameter to process: according to customized;
3. Function of the machine: 2 function according to customized, such as pull plug + cut pin, trimming +cut pin, cut pin+pin chamfering.
4. Auto feed material, auto unload.

★Description

GT-TS204 This is a machine to test **resistance value and hit-pot** automatic for heaters after diameter reduced.

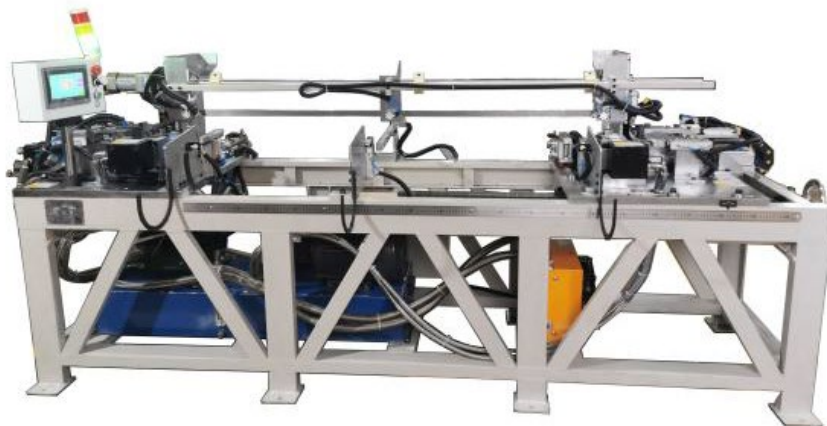
★Main details

1. Auto feed heaters to test, and auto unload tested heaters. Qualified heaters and un-qualified heaters will be sorted.
2. Can set target quantity to test and stop the machine.
3. Machine will stop auto if with fault.
4. Diameter to test: $\Phi 6$ - $\Phi 12$ mm (according to customized)
5. Min length to test: 220mm;
6. Straightness after shrinking: straightness of 1:200mm;
7. Size: about 1.3*0.6*1m (for 1 meter machine)



GT-TS204
Auto Resistance Value and Hi-Pot Tester

Stretching Machine



GT-LS201
Stretching Machine for short heaters



GT-LS202
Stretching Machine for long heaters

★Description

For tubes are not in same length after shrunk that need to stretch to reach same length. The machine with hydraulic system, in stable stretching and high efficiency.

★Main details

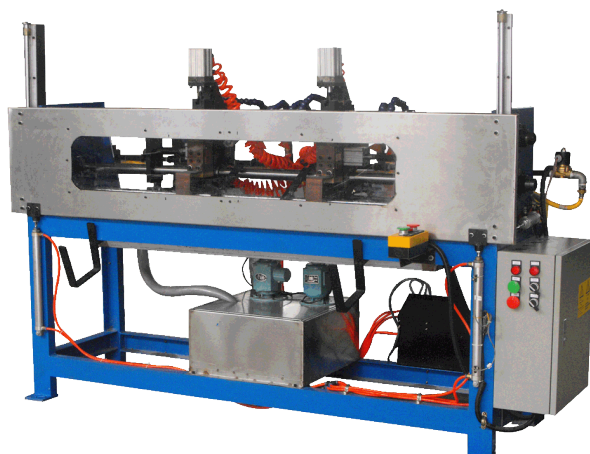
1. Automatic load and unload for tubes **within 2 meters**. If longer than 2 meters, it's better manual load and unload heaters.
2. With PLC and touch screen, easy operation.
3. Length tolerance after stretching can reach $\pm 1\text{mm}$.
4. Machine will stop auto if out of material.
5. Machine with small size, less noise, easy adjustment.
6. Before stretching, for tubes **length difference selected within 15mm**.

Annealing Machine

Tube Partial Annealing Machine



GT-TH203 Annealing Machine
(without cooling)



GT-TH202 Annealing Machine
(with shower cooling)



GT-ATH201 Auto Anneal
machine (without cooling)

★Description

Short-circuit annealing machine, mainly for anneal the tube safter diameter reduced. Which the tube surface is very hard without annealing, the bending position is too small, to be easily got broken or cracked. After annealing, the tubes will be soften.

The machine used a dry-type transformer, equipped with a pneumatic clamping mechanism to clamp the pipe on the electrodes at both ends, using a low-voltage, high-current to create short-circuit to heat and anneal with metal-shell.

The annealing machine with shower cooling will automatically spray and cool after annealed.

Auto Anneal machine is with load and unload tubular heaters to anneal automatically.

Remark:

These anneal machine only anneal part of heater, can not anneal the whole heater.

★Main details

1. Anneal length: Min. 200mm to max length according to customized;
2. Anneal diameter: $\Phi 6-16$ mm (need to change mold);
3. With 7-8 grade to adjust voltage according to diameter of heater and material;
4. Pneumatic clamping;
5. For auto anneal machine, heater auto feed to anneal, auto anneal, auto unload annealed heater

GT-TH204 Automatic High Frequency Anneal Machine for overall/long tube annealing



GT-TH204 Automatic high frequency anneal machine

★Description

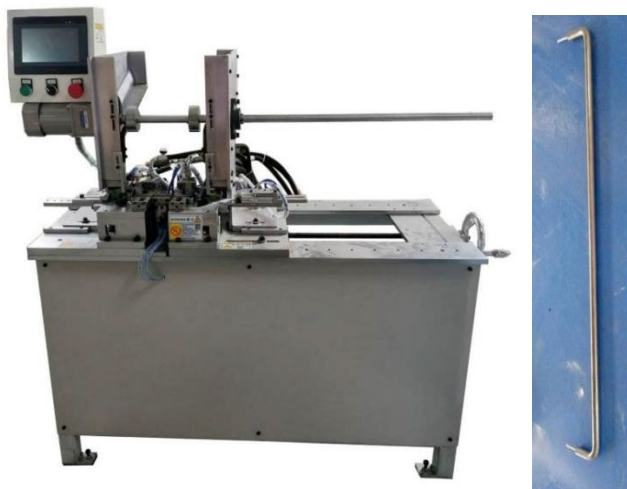
GT-TH204 Automatic High Frequency Anneal Machine suitable **annealing to soften the whole long pipes**. When annealing the pipes are heated up certain temperature through a high-frequency machine.

★Main details

1. Auto feeding, annealing speed can adjustable, easy to change size, easy maintain.
2. With **PLC control**, human and machine interface, **easy operation**.
3. High efficiency, low pollution, stable quality and safety.
4. When lack of material, machine will stop auto.
5. About 3-4 meters per min.
6. With small size, low noise, easy adjustment.

Heater Bending Equipment

GT-WGQD 90° Degree Single-End Bender



GT-WGQD 90° degree auto bending machine

★Description

GT-WGQD 90 degree auto bending machine auto bend 90 degree for heating elements. Suitable for tubular heater bend both leg in 90 degree.

★Main details

1. Auto feed heaters, auto bend, auto unload bend heaters.
2. Max length of heater to bend: within 500mm can be adjustable (according to customized).
3. Diameter of heater: $\Phi 6$ - $\Phi 10$ mm according to customized.
4. With touch screen, easy operation.

GT-WGRLD Helix Bending Machine For Hot Runner Heater



GT-WGRLD
Helix Bending Machine For Hot Runner Heater



★Description

GT-WGRLD Helix Bending Machine For Hot Runner Heater, is a bending machine to coil flat hot runner heater into helix shape. It is also applied to coil small round heaters.

★Main details

1. Mainly to bend coil heater.
2. Pitch, coil of quantity and speed can adjust.
3. With touch screen, easy operation.
4. Machine in small size, nice design.
- 5.

GT-WGMA202
Multi Function Bending Machine



★Description

Multi Function Bending Machine is semi-auto bending machine for tubular heater. This style machine can bend round circle heater, spiral heater according to customized;

★Main details

- 1.Multi Function Bending Machine, suitable to bend round heater, spiral heater according to customized;
- 2.With touch screen, easy operation;
- 3.Pitch, speed can be adjustable;

GT-WGMA202
Multi Function Bending Machine

GT- WGYX203
Round Shape Bending Machine



★Description

The round shape bending machine is bender mainly for round shape pipe bending. The machine can bent in half circle or one circle round shape. The production efficiency is high. After the leg of the heater finish and bend, it can bend about 5000 pcs / 8 H by skilled workers.

★Main details

1. Bend legs of heater first;
2. Manual put heater on the mold;
3. Machine will bend auto;
4. Machine with small size, easy operation.

GT- WGYX203
Round Shape Bending Machine

GT- WGYX201 Round heater bending machine



GT- WGYX201 Round heater bending machine



★Description

Round heater bending machine, mainly for bend round heater like picture.

GT- WGUX203 U Type Hydraulic Pipe Bender



GT- WGUX203
U Type Hydraulic Pipe Bender

★Description

U Type Hydraulic Heater Bending Machine, mainly for bend single U shape, or M shape, W shape heater.

GT- WGUX201 Q Shape Bending Machine



GT- WGUX201 Q Shape Bending Machine



★Description

Q shape bending machine, mainly for bend Q shape, U shape, W shape heater. This machine is semi-auto bending machine.

GT- WGAU203 Auto U Shape Bending Machine



GT- WGAU203 Auto U shape bending machine



★Description

Auto U shape bending machine suitable to one U shape heater bending after shrink.

★Main details

1. auto feed heater to bend, auto centering, auto bend, auto unload bend heaters;
2. With touch screen, easy operation;
3. When out of material, machine will auto stop;
4. Small size, less noise, easy adjustment.

GT- WGMA201 Multi-Angle Bending Machine



GT- WGMA201
Multi-Angle Bending Machine

★Description

Multi-Angle Bending Machine with 3 elbow, suitable to bend M SHAPE,U shape and square shape heaters. The machine with smooth, continuous, high control accuracy, used in tubular heaters bending.



★Main details

1. power supply: 220V;
2. motor power: 5.1KW;
3. Air supply: clean compressed air 0.5-0.7MPa;
4. with touch screen and PLC control;
5. with 3 bending elbow;
6. max can store 20 designs;
7. for 6.6mm heater, can bend 3-4 pcs one time,;
8. for 8mm heater, can bed 1-2 pcs one time;
9. length to bend: 400-3000mm;

Welding Equipment

- Pneumatic Pulse Spot Welding Machine



GT-DH105 Welding Machine



GT-DH106 Welding Machine



GT-DH107 Welding Machine



★Description

Pneumatic pulse spot welding machine, is a machine specially used for welding resistance wire and terminal pin (lead bar), lead bar and metal piece.

The machine is easy to operate. It is one of necessary machine for heater manufacturers. The two styles welding machine are similar.

Finished sample

- Cap welding Machine



GT-XHJ200
Welding Machine (Horizontal style)



GT-HJ201
Welding Machine (Vertical style)

★Description

Cap welding machine mainly use to weld the bottom of tube for cartridge heaters or hot runner heaters. There are horizontal and vertical style. The vertical style are popular among heater factories since it with quality welding.



- **Laser welding machine**
GT-LM202



GT-LM202
Laser welding machine



★**Description**

GT-LM202 Laser welding machine use to weld SS flange with SS heaters.

★**Main details**

1. Suitable for laser welding, such as weld **SS flange with SS heaters**.
2. Manual load material, or with manipulator work auto.
3. Auto welding.

Marking Equipment for Heater

GT-GZJ201

- Pneumatic Marking Machine



★Description

Mark character-numbers on the surface of heater in one line.

★Main details

1. Direction of character/number: in one line.
2. Character mold change easy.
3. Depth for marking can adjust.
4. Semi-auto machine, easy work.

GT-GZJ201Pneumatic Marking Machine

GT-GZJ203

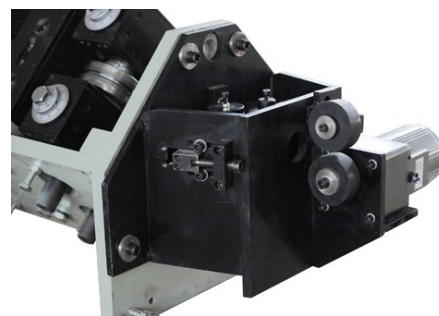
- Roll Reducer Auto Marking Mechanism

★Description

Roll Reducer Auto Marking Mechanism is connected with the exit of the rolling shrinking machine.

The filled heater feed to reducing machine to reduce, and when arrive to the exit of the reducing machine, the pipe will mark character auto by the mechanism installed at the exit of the reducing machine.

The device mainly for heater and marking not need strict quality. And want to save labor cost for marking.



GT-GZJ203 Roll reducer auto marking mechanism

- GT-LM201 Laser Marking Machine



★Description

Laser marking on surface of the heater, with computer and software control, easy operation.



GT-LM201 Laser Marking Machine

Other Equipment

GT-KYJ201 Crimping Machine



GT-KYJ201 Crimping Machine

★Description

GT-KYJ201 **Crimping Machine** is designed and manufactured according to the production of the heater, mainly for hot runner heater production.



GT-JY202 Rolling Machine



GT-JY202
Round Rolling Machine

★Description

GT-JY202 Round Rolling Machine use to roll SS fin for band heater.
Max width is 500mm;
diameter to coil can be adjustable;
rolling speed can be adjustable.

★Main details

1. power: 3 phase 380V, 1100W;
2. speed can be adjustable;
3. max width of fin to coil: 500mm;
4. min diameter of coil: **100mm**;
5. size: about 1100*550*1000mm;
6. weight: about 160kg;



- Pleating Machine



GT-YB301 Pleating Machine



GT-YB302 Pleating Machine

Pleating machine use to press SS plate for round band heater with easy operation.

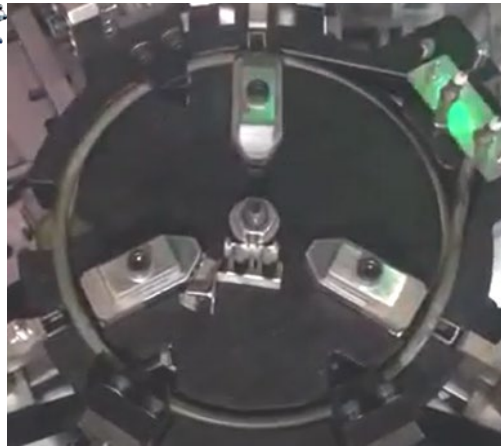
GT-YB301 pleating machine is horizontal type, while GT-YB302 is vertical.



- GT-MT201 Mounting Machine



GT-MT201 mounting machine



★Description

Mounting machine is used to riveting the metal pcs for the oven heater. With hydraulic as driver, riveting firmly.

Ultrasonic Cleaning Equipment



GT-CS01 Single cleaning machine



GT-CS03 three tanks cleaning machine



GT-CS05 five tanks cleaning machine

★Description

Ultrasonic cleaning equipment is mainly used to clean the raw materials of the heaters, such as resistance wire, pipes, terminal pins etc. If the raw materials of the heaters are not clean, it will let the quality of heaters not good. So if raw material of the heater must be clean.

There are one tank, two tanks, three tanks, four tanks and five tanks for ultrasonic cleaning equipment. There are different functions for each tank. More tanks, more function, better effect. Customers can customize according to the product. At present, five tanks is the largest cleaning equipment.

• Cooling Fin Winding Equipment



GT-RP201PLC Fin Winding Machine

★Description

GT-RP201PLC Fin Winding Machine use to wind metal fin into spiral coil shape for fin heaters.

★Main details

1. With PLC and touch screen, easy operation.
2. Winding speed can adjustable;
3. Pitch within range can be adjustable;
4. Can coil different pitch;
5. Max length: 1000mm or according to customized.
6. Width of fin to coil: 3-15mm according to customized;
7. Thickness of fin to coil: 0.1-0.8mm according to customized;
8. Inside diameter to coil: Φ4-Φ20mm according to customized;
9. Change mold can coil different diameter/pitch coil fin;
10. Machine with rack for fin material, auto feed fin to coil;
11. Can set the target length to wind, when reach the target length, machine will stop auto.



Pin Equipment



GT-YBDJ201 Single chamfering machine

★Description

GT-YBDJ201 Single chamfering machine is a terminal pin production machine. The machine with auto feed material, auto chamfer one end of terminal pin.

★Main details

1. Auto feed pin, auto chamfer.
2. Angle of chamfer can be adjust.
3. Machine with small design, easy operation.



★Description

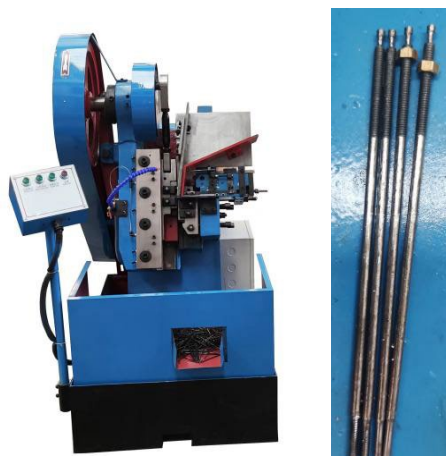
GT-YBMG201 Automatic grinding machine is a terminal pin production machine. The machine use to grind the neck of pin smaller, which use to hand on MGO powder filling machine.

★Main details

1. Auto feed pin, auto grind.
2. Length to grind can be adjust.
3. Depth of grind can be adjust.



GT-YBMG201 Automatic grinding machine



GT-YBCY201 Automatic Threading machine

★Description

GT-YBCY201 Automatic Threading machine is a terminal pin production machine. The machine use to make screw thread on the pin.

★Main details

1. Auto feed pin, auto thread, auto unload finished pin.
2. Length of thread can be adjust.
3. Depth of thread can be adjust.





GT-YBGY201
Rolling Thread Machine



★Description

GT-YBGY201 Rolling Thread Machine is a machine to roll thread on the pin after reduced.

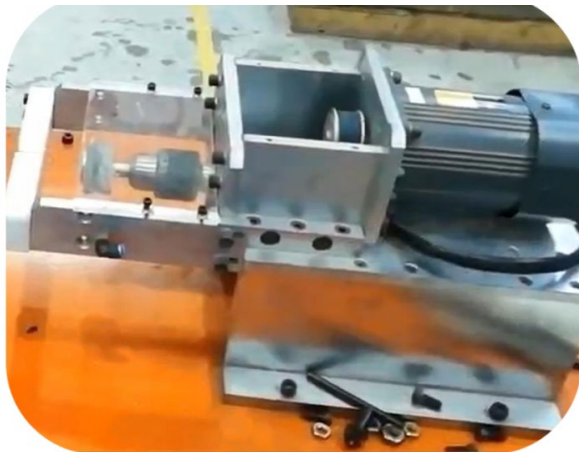
★Main details

1. Length of thread to roll can control by worker.
2. Manual operation, easy to run the machine.

GT-DJ202 Terminal Pin Chamfering Machine

★Description

GT-DJ202 terminal pin chamfering machine use to chamfer terminal pin of heating element after tube reduced diameter.



★Main details

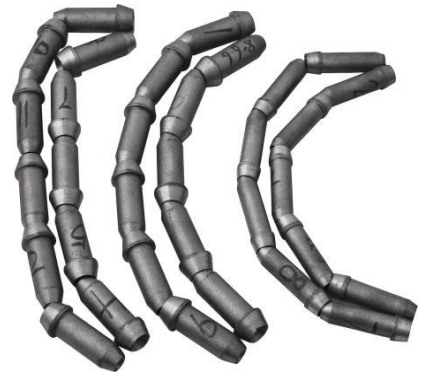
1. Manual work, easy operation.
2. Mold adjust easy.
3. Machine with small size, less volume.



Steel roller for shrinking machine



Tungsten carbide roller for shrinking machine



Guide sleeve for shrinking machine



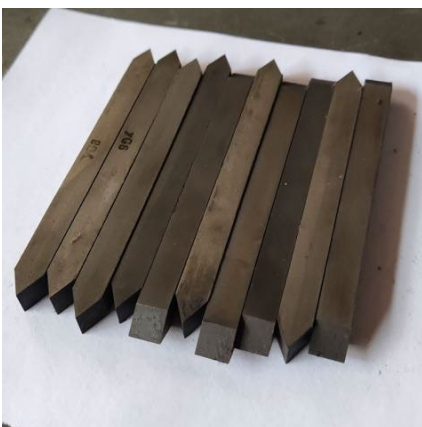
Wheel for wire winding machine



Mandrel for wire winding machine



Chuck for tube cutting machine



Blade for tube cutting machine



Chuck for tube cutting machine



Roller for Straightening machine

Machine make accessories



Polishing wheel for buffing machine



Polishing wheel for buffing machine



helix nozzle for filling machine



Guide tube for MGO filling machine



Guide tube for MGO filling machine



Mandrel for MGO filling machine



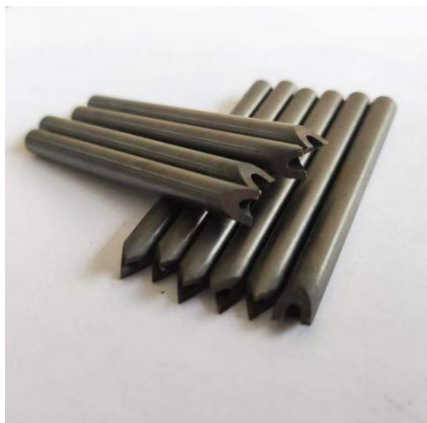
Hook for MGO filling machine



Blade for trimming machine



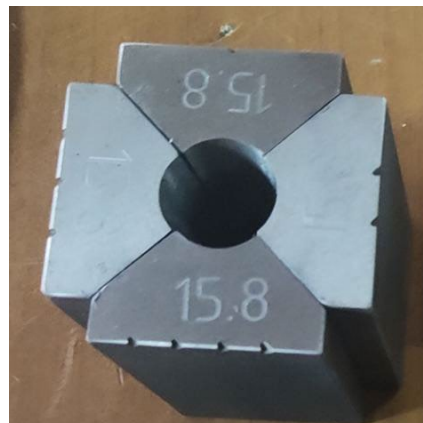
New blade for trimming Machine (not need to grind)



Dig tool for dig powder machine



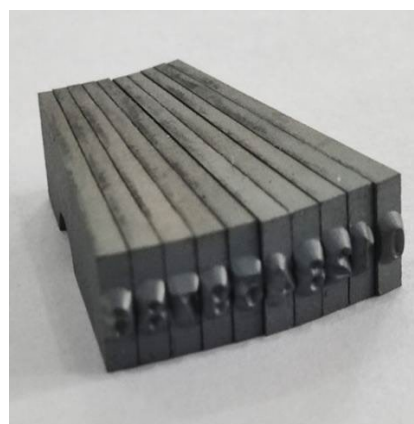
Accessories for filling machine



Mold for swaging machine



Spacer for swaging machine



Molds for marking machine



Mold for trimming machine



Shafts for shrinking machine



surface bearing for shrinking machine



Metal pcs for filling machine

Heater Material



Different tubes for heating elements



SS caps for cartridge heaters



Resistance Wire



MGO rods (1-4 holes, 6holes, 8 holes)



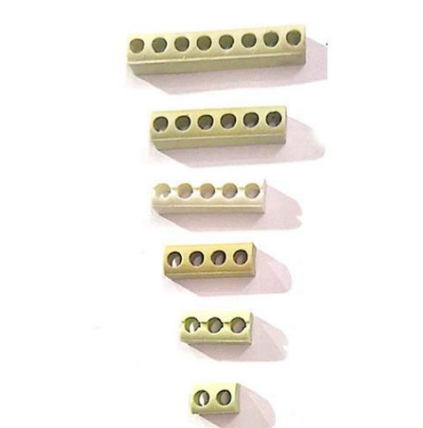
Bottom MGO part for cartridge heaters



Top MGO part for cartridge heaters



8 holes ceramic bars for



2-8 holes ceramic bars for



Ceramic pcs for heating

band heaters

band heaters

elements

Heater Material



Plastic sealers



Ceramic pcs for heating elements



Ceramic pcs for heating elements



Ceramic sets for heating elements



Ceramic base for heating elements



Ceramic tubes for heating elements



Ceramic ring for heating elements



Ceramic terminal block



Ceramic terminal block

Heater Material



Brass flanges for heating elements



SS flanges for heating elements



SS parts for heating elements



Terminal pins for heating elements



187 tree shape crimp terminal metal pcs



250 crimp terminal metal pcs



**250 crimp terminal
metal pcs
in 45 degree**



**T shape crimp
terminal metal pcs
20*M4*45 degree**



**T shape crimp
terminal metal pcs
20*M4*90degree**

Heater Material



**T shape crimp terminal
metal pcs 23*M4**



**T shape crimp terminal
metal pcs 6.35*20**



**T shape crimp terminal
metal pcs
6.35*20*45degree**



**U shape metal pcs
M4*2 M6*2**



**U shape metal pcs
M6**



**Metal pcs
20X1.5X15**



**metal pcs
8*13**



**metal pcs
M6**



**Brass valve for
water heaters**