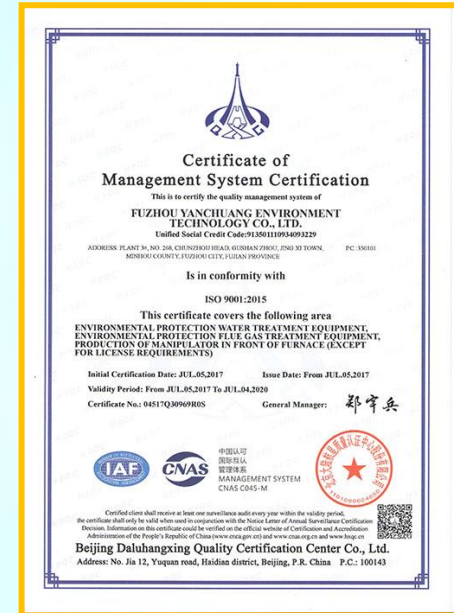




FUZHOU YANCHUANG ENVIRONMENTAL TECHNOLOGY CO., LTD, located in fuzhou city Fujian China , has the stronger design development with complete equipments with produce to make. There are more than 130 employees, among which the high-tech talent accounts for 37% in our company. Meanwhile, we have cooperated with many large and medium-sized universities and design institutes to jointly develop and solve various projects. In September 2016, it was awarded as a technology enterprise by Fujian provincial science and technology department, and obtained ISO9001 quality system certification and multiple practical patents.



According to the background of the international steel market , in this several years, we continue to develop and improve our products , the “YANCHUANG” brand intermediate frequency furnace manipulator (IF furnace manipulator) which is applied to the intermediate frequency furnace steel making workshop, has been sold to over 20 provinces and regions.And they are exported to Vietnam, Thailand, Indonesia and other southeast Asian countries and Africa regions,well received by customers.



On the one hand , our company sticks to the principle of “Quality first, Customer priority, Service first”, and follow the standard of ISO9001 international quality certification system to manufacture strictly, on the other hand we set up after-sales service centers ,and then establish independent and technical document for each client.In order to create more satisfaction products for customers complete, the trained Customer Service staff will pay regular visit to the customer, feed back any issues arises and provide prompt remedy.

our patents



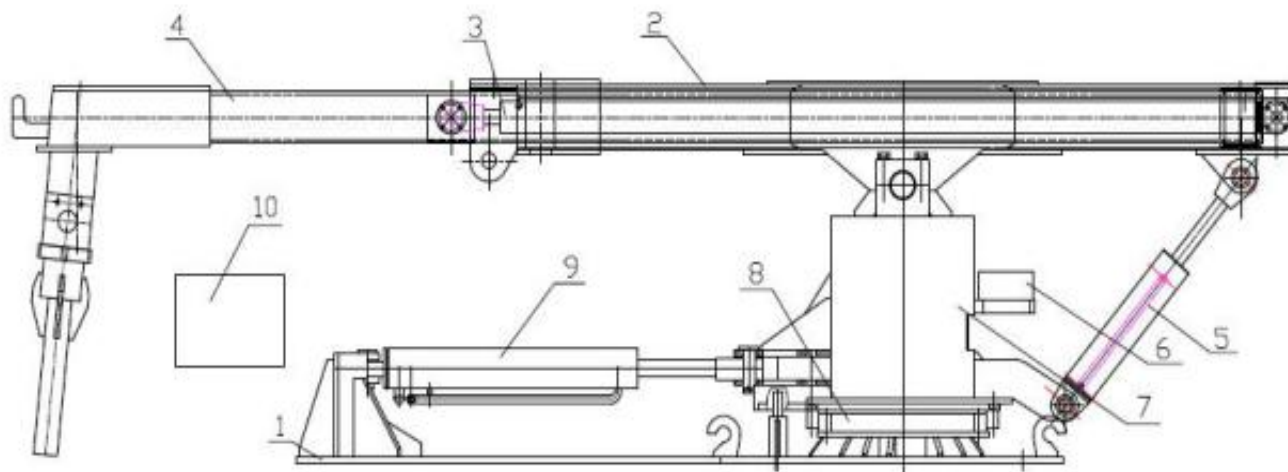
IF furnace manipulator

Equipment composition structure and general drawing

1,composition structure

The IF furnace manipulator consists of pedestal,slewing bearings,Rotary column assembly,External beam assembly,inner beam assembly,Rotary cylinder,Lifting cylinder,Push-pull cylinder,Hydraulic circuit system,electric control system.

2,Equipment general drawing(frame diagram)



Main components:1,pedestal
2,External beam
3,Push-pull cylinder
4,inner beam
5,Lifting cylinder
6,manifold block assembly
7,Rotary column assembly
8,slewing bearings
9,Rotary cylinder
10,Hydraulic station

Technical description

1,Application range

The Robotic arm Machine is applied in the medium frequency induction furnace steel making workshop,installed between two furnace shells.

2,Main advantages:

- 1)the person does not need to operate directly to the mouth of the furnace, using the remote control operation, safety, reduce the accident rate;
- 2)reduce labor intensity, saving labor, reduce the original four people to 2 people
- 3)make scrap material to achieve no blocking phenomenon, quickly melting rate,the average per furnace tapping time will be fast 8 to 10 minutes (if use of light and thin materials will be faster), so that to improve more than 10% of the steel yield;
- 4)because tapping quickly,so it will be save electrical power about 3 to 5KWH/ton
- 5)makes the furnace refractory more durable, due to rapid pressure, the refractory is not easy to bear high heat, if a furnace can only use 30~ 32 furnace before time , now, the furnace can be used for at least about 38heats .
- 6)can be used to lift refractory materials when the workshop is busy,so that save time and labor.

3.Main technological innovation points

- 1)The whole mechanism adopts hydraulic cylinder to drive the manipulator's telescopic, lifting and rotating functions,driving force big,running smoothly.
- 2)The front-end pulling bar of the inner beam are designed as a quick loading structure, and can be quickly replaced.
- 3)Hydraulic components are concentrated in the design of the rear part of the device,keep away from heat source,and increase the reliability of equipment operation.

With 11KW oil pump motor Unit,automatic stop pump and pressure relief once stop working.

- 4)Using local and remote control two kings of electrical control ,and can be switched freely.Remote control operation can achieve shut down and emergency power off freely.
- 5)small equipment volume,save space,convenient operation,flexible Application.

4,Main structure

- 1)pedestal
- 2)Rotary column assembly
- 3)Internal and external beam assembly
- 4)Hydraulic circuit system
- 5)Electric control system.



5,Main technical parameters(Maybe changed after exactly design)

- 1)Rotation range:-86 °~86 °
- 2)Expansion stroke:0~ 2700mm
- 3)Lifting mechanism stroke:+1500~ -1170mm
- 4)Equipment size L×W×H:5700×1300×1500
- 5)Push-pull torque:0 ~ 5T
- 6)lower pressing torque :0 ~ 4T
- 7)rotating torque :0 ~ 2.5T
- 8)system pressure:0~16MPa

Scope of supply description



NO.	Part name	unit	qty	remarks
1	Robotic arm Main device	set	1	
2	Hydraulic station	set	1	Without pipe(Fuel tank to equipment inlet pipe),provides by the user
3	electronic control system (remote control)	set	1	Without field cable and installation accessories

Using conditions

- 1.Installation site:on the platform of center distance and line Between two furnace.
- 2.Working condition: High temperature and high pressure.

