



ZHONGSHAN ZOYVAN INTELLIGENT EQUIPMENT CO.,LTD

Company Profile | Products | Patent & Certificate | Cooperative Partner

Company Profile

Zhongshan Zoyvan Intelligent Equipment Co., Ltd. is located in Zhongshan, Guangdong, China, and has over 20 years of experience in the design, R&D, and production of aluminum processing machinery.

We are a high-tech manufacturer of intelligent aluminum processing equipment, distinguished by our strong capabilities in software-hardware integration and extensive customization flexibility.

Our product portfolio includes:

- Aluminum Extrusion Press,
- Precision Automatic Sawing Table for Aluminum Profiles
- Hydraulic Tube End Forming Machine for Aluminum Tubes
- Fully Automatic Tube Drawing Machine
- Automatic Aluminum Profile Peeling Machine
- Furnace Billet Loading Manipulator
- Industrial Robot

With 50 patents, an 80-member professional technical team, and deep industry experience, ZOYVAN adheres to a **“quality first, customer first”** business philosophy and continuously improves product quality and service standards.

ZOYVAN remains committed to providing customers with better products and services, creating lasting value for their operations.

Main Products



Aluminum Extrusion Press

Precision automatic saw

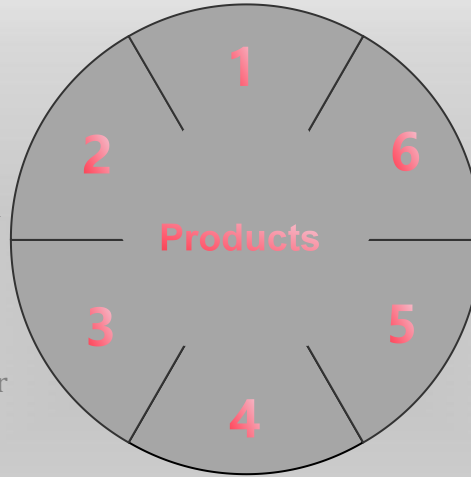
Aluminum Tube Hydraulic Reducer

Fully Automatic Tube Drawbench

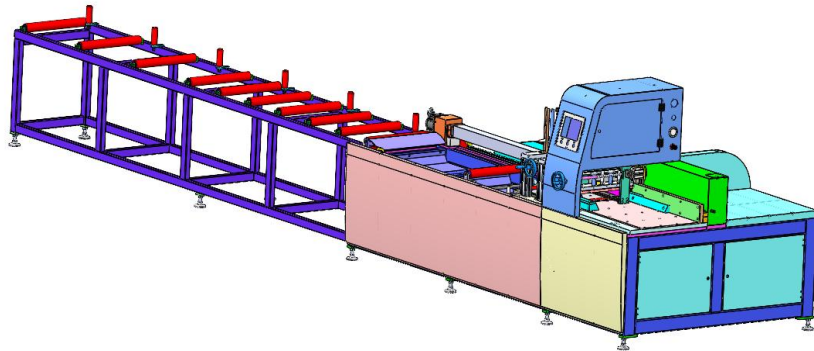
Aluminum Furnace Billet Loading Manipulator

Aluminum Billet Automatic Peeler

Industrial Robot



Precision automatic saw



Independent research and development of tailless automatic saw table, can achieve automatic feeding and automatic sawing:

- 1. Special sawing action design (cutting off the material) :** After the saw blade cuts the material in a straight line, the saw blade returns to the origin after the sawing profile is pulled apart by mechanical control.
- 2. Automatic feeding, automatic sawing:** using servo motor with high precision grinding rack, plus electronic ruler, positioning accuracy is high.
- 3. Intelligent automation:** saves people, labor and time, can reduce costs, improve quality, and has simple and convenient operation.

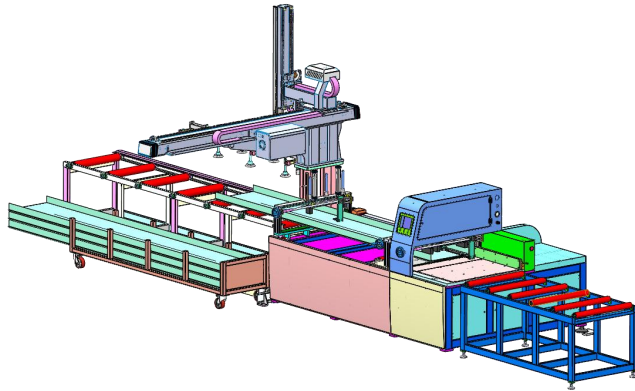
Precision automatic saw



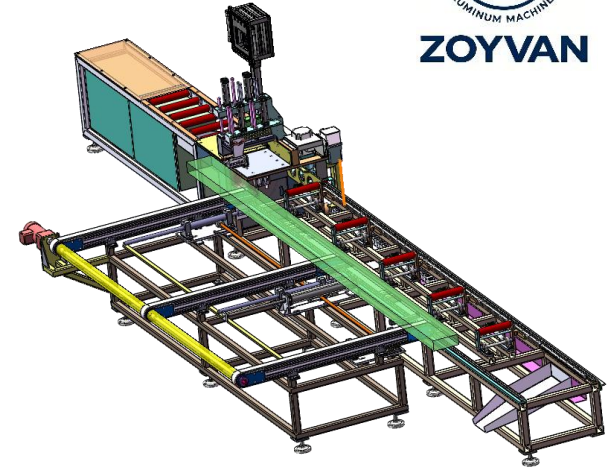
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	Model	ZDJ-405-1500	ZDJ-505-1500	ZDJ-610-1500	ZDJ-505-6000	ZD610-6000
1	Total Power(KW)	10	12	16	12	16
2	Saw Blade Specifications (mm)	355-405	405-505	505-610	405-505	505-610
3	Saw blade speed (mm)	3000	2500-3000	2000-2500	2500-3000	2000-2500
4	Cutting width (mm)	360	420	480	420	480
5	Cutting Height (mm)	100	135	175	135	175
6	Feeding speed (m/min)	0-40	0-40	0-40	0-40	0-40
7	Saw Blade Feed Rate(m/min)	0-40	0-40	0-40	0-40	0-40
8	Saw blade backward speed(m/min)	0-40	0-40	0-40	0-40	0-40
9	Sawing accuracy(mm)	±0.1	±0.1	±0.1	±0.05	±0.06
10	Automatic Feeding Length(mm)	1500	1500	1500	6000	6000
11	Tail Material Length(mm)	50	60	70	60	70

Cases and Scenarios

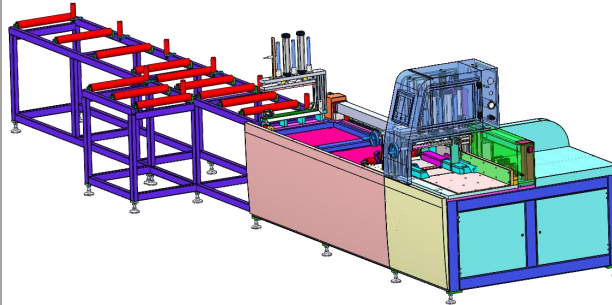


U-shaped Automatic Sawing Machine
Designed for special material shapes, it can complete automatic feeding, with minimal sawing errors, and the minimum sawing scrap is less than 30mm.



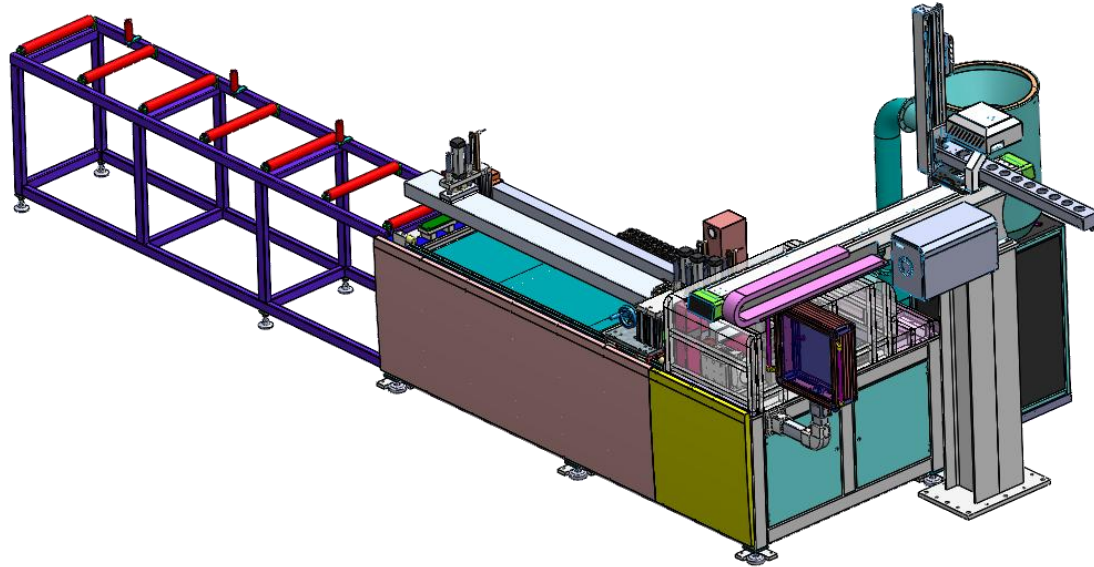
Tail-less Material Quick Release Automatic Saw Table

The end pressing design is shaped like a cantilever beam, making it easier to quickly place the material to be processed during operation, and it can handle various forms like round and square tubes.



Square Tube Automatic Sawing Machine
Designed for special material shapes, it can handle automatic feeding, with very little cutting error.

Cases and Scenarios



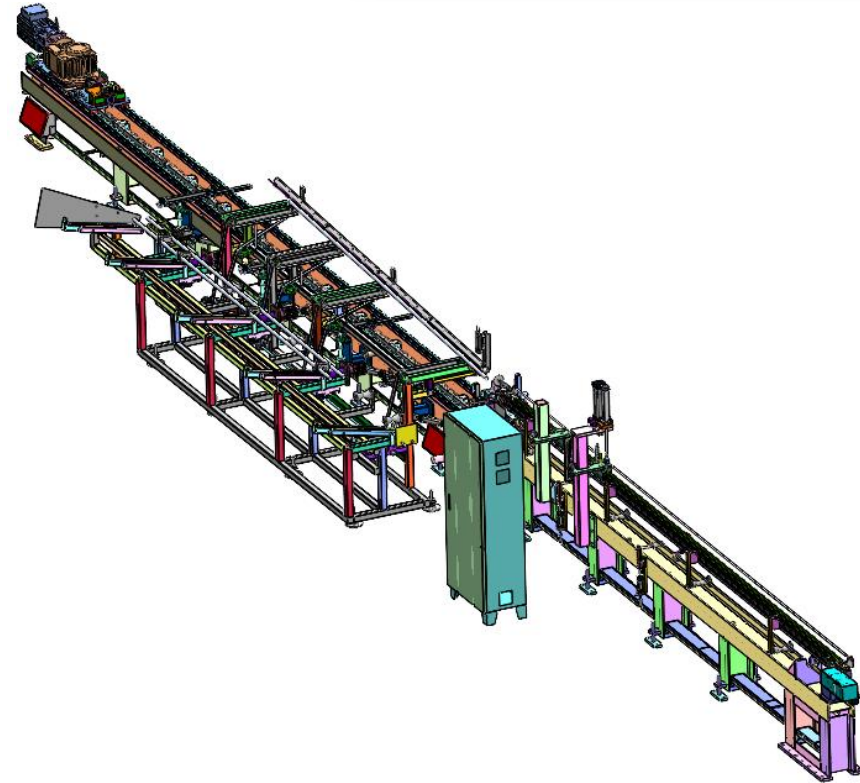
Square Tube Rotary Cutting Saw

Equipped with servo sizing feed system and high-precision linear guide rails, this machine is specially designed for cutting ultra-short aluminum square tubes. It features minimal material loss during cutting, with the minimum loss rate below 10%. The sawing efficiency is extremely high and the cutting tolerance is within 0.05mm. It realizes integrated automatic operations including feeding, positioning, clamping, sawing and discharging.

Fully Automatic Aluminum Tube Drawing Machine



1. Drawing length, speed and configuration can be designed according to different requirements of customers.
2. The model is comprehensive, available for customers to choose.
The use of PLC full control, can achieve manual mode, semi-automatic mode, automatic mode and many other functions.
3. The product performance is reliable, for the use of manufacturers to save labor to the greatest extent, improve production efficiency.
4. The equipment structure and operation is simple.

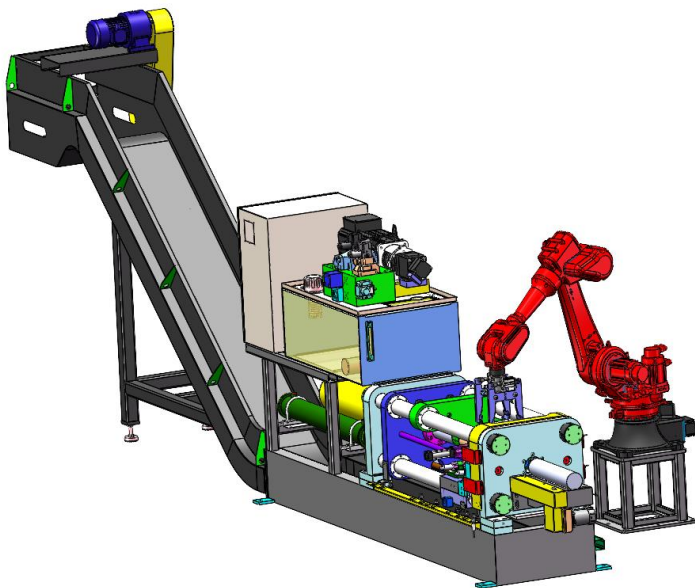


Fully Automatic Aluminum Tube Drawing Machine



Model	ZDLBJ-11KW	ZDLBJ-22KW	ZDLBJ-37KW	ZDLBJ-68KW
Specifications and dimensions	ø12-ø30	ø12-ø40	ø15-ø60	ø20-ø80
Total Power(KW)	15	28	45	75
Feed rate(m/min)	60	60	50	40
Retreat speed (m/min)	60	60	50	40
High center(mm)	800	800	820	820
Rated Pulling Force(KN)	14	28	56	120
Guide Rail Specifications	HGH30	HGH35	HGH35	HGH45
Rack model	4 die model	5 die model	6 die model	8 die model

Automatic peeling machine



The equipment is used to peel the surface oxide layer of a heated aluminum rod in an aluminum extrusion plant.

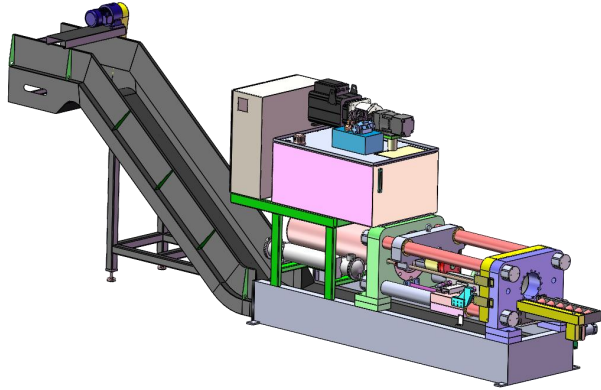
1. **The rod support device can move back and forth:** To ensure the neutrality of the short rod, the trapezoidal guide rail slides, and it is easy to adjust the center, to ensure peeling accuracy.
2. **The peeling knife design is unique:** to ensure that the aluminum skin can completely fall off by itself, uniform thickness.
3. **High degree of automation:** the robot can automatically complete the rod in and out of the rod, the peeling machine to complete the peeling, pushing and waste skin collection and other actions, can also be manually operated.
4. **Automatic feeding and unloading:** ensure that the aluminum rod is no longer subject to secondary pollution after peeling.

Automatic peeling machine



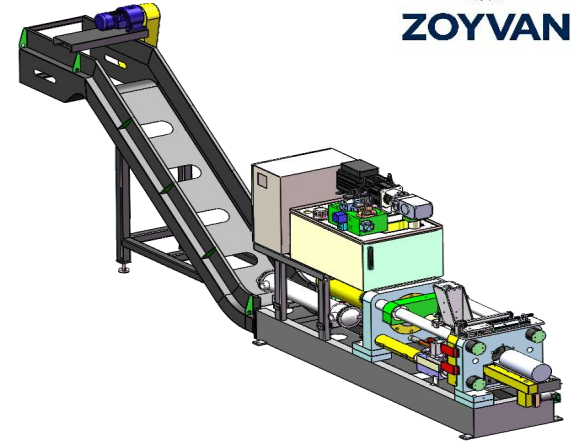
	Model	BPJ-Z100	ZDJ-Z178	ZDJ-Z254	ZDJ-Z305
1	Total Power(KW)	16.5	23.5	41.5	56.5
2	Aluminum Ingot Specifications (mm)	89-100	120-178	203-254	278-303
3	Main motor power (KW)	15	22	40	55
4	Aluminum Ingot Length (mm)	200-600	250-800	300-1250	350-1500
5	Peeling Thickness (mm)	>2.5	>2.5	>3	>3
6	Time to peel a single billet (s)	20-30	20-35	25-35	25-50
7	Main Cylinder Bore Diameter (mm)	200-220	220-250	250-280	280-300
8	Maximum Thrust (T)	50-60	60-78	78-98	98-113
9	hot peeling temperature(°C)	350-530	350-530	350-530	350-530
10	Machine Width (mm)	700	800	950	1100

Cases and Scenarios



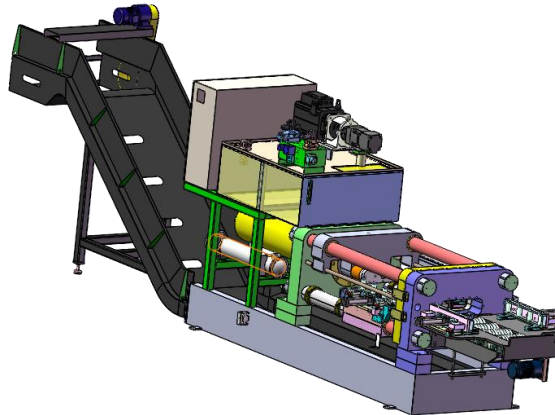
Automatic peeling machine

This equipment can handle most lengths of aluminum ingots, producing aluminum billets with smooth and uniform surfaces, and fits into a continuous production line with a heating furnace, peeling machine, and extruder. ←



Flat Aluminum Billet Peeling Machine

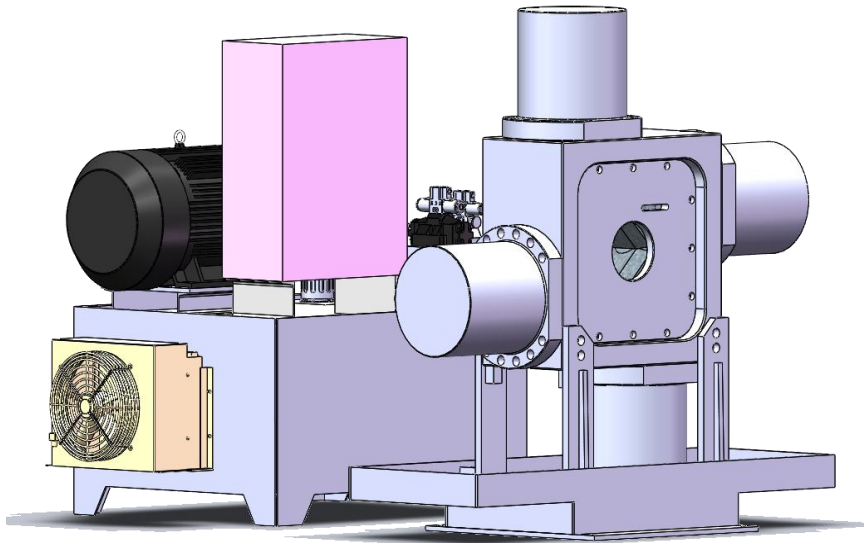
This machine is tailor-made for flat aluminum billets with thicker and wider overall structure. A central guiding unit is installed at the discharge outlet, ensuring smooth and uniform surfaces of aluminum billets after processing. →



Anti-bending round rod peeling machine

This equipment can be designed for aluminum ingots with uneven cross-sections, the machine is equipped with an anti-warping mechanism. The pressing head can avoid interference with mechanical grippers, delivering aluminum billets with smooth and uniform surfaces after processing.

Hydraulic retracting machine



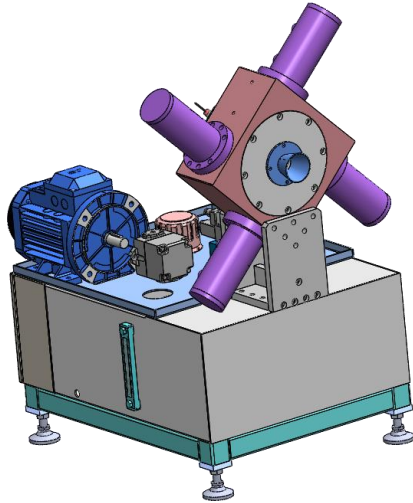
- 1.The end reducing size and pressure can be customized according to different customer requirements.
- 2.A full range of models are available for customers' selection. Adopting full PLC control, the machine can be matched with an automatic feeding rack to realize fully automatic production procedures.
- 3.With reliable performance, this equipment helps manufacturers greatly reduce labor costs and boost production efficiency.
- 4.Compact structure and simple operation.

Hydraulic retracting machine



Model	STJ-80	STJ-250	STJ-320	STJ-350
Efficiency (s) End Reducing Time Per Tube (s)	4	12	15	20
End Reducing Diameter (mm)	ø10-ø35	ø20-ø100	ø25-ø110	ø25-ø130
Total Power(KW)	5.5	22	37	45
Cylinder Bore Diameter (mm)	ø80	ø250	ø320	ø350

Cases and Scenarios

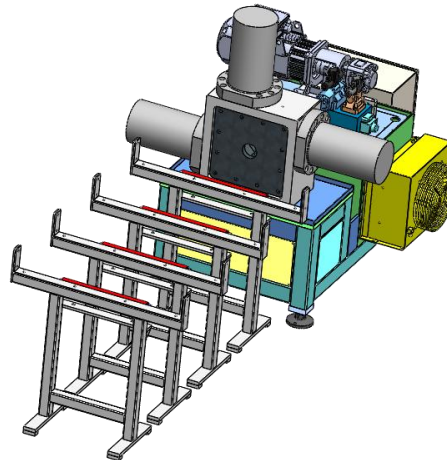


Four-die Aluminum Tube End Reducing Machine

Single cold heading forming can be completed within several seconds. Continuous batch processing is supported to reduce tube ends to dimensions suitable for drawing.

Eight-die Tube End Reducing Machine

This machine adopts hydraulic drive as the main power source with a pneumatic auxiliary ejection structure. It is suitable for end reducing of most aluminum round tubes and delivers neat forming results.



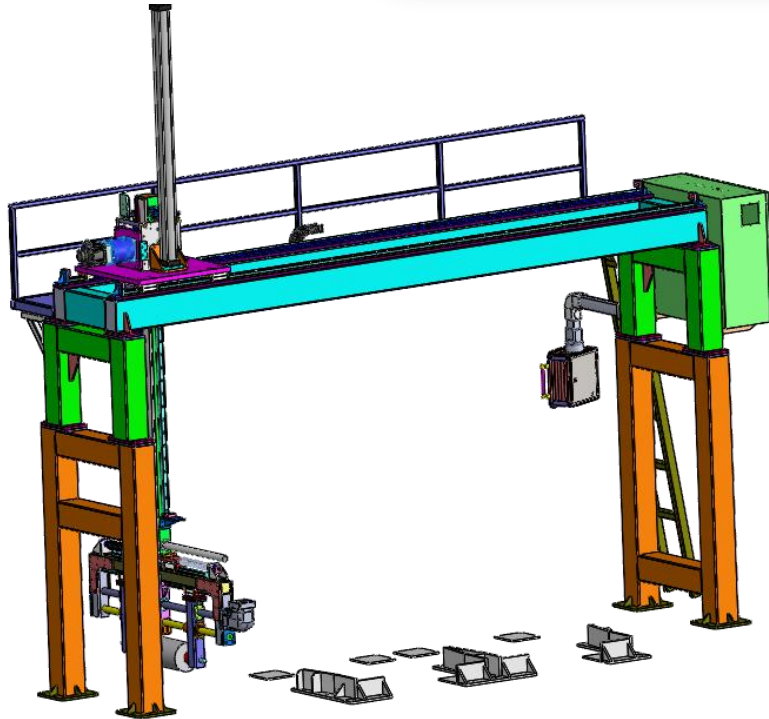
Square Tube End Reducing Machine

Single cold heading forming is available for continuous batch production. Customized for the structural dimensions of square tubes, it ensures smooth feeding and discharging, and can be integrated into an automated production line consisting of end reducers, tube drawing machines and cutting saws.

Aluminum Furnace Billet Loading Manipulator

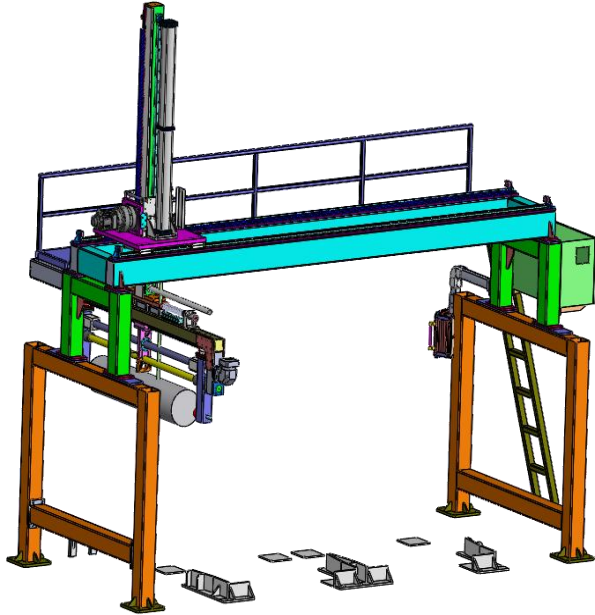


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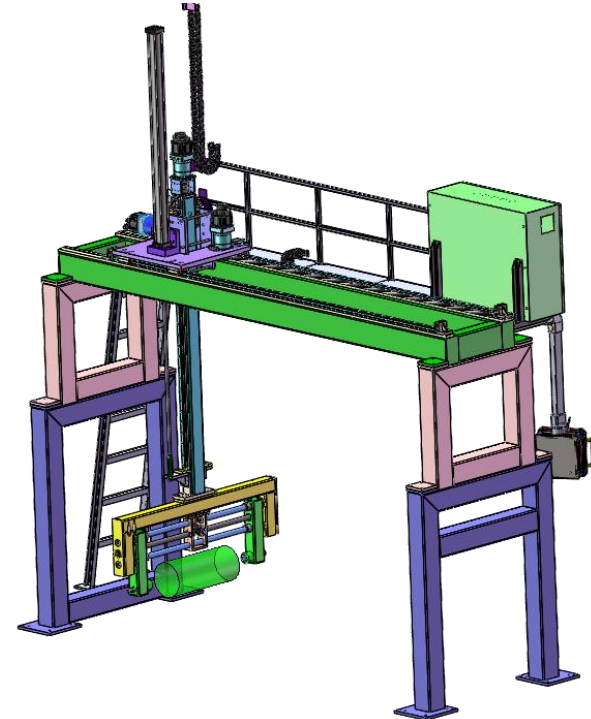
- 1.The machine adopts a gantry truss with a stable structure. It uses forward and reverse lead screws for clamping and servo horizontal movement, delivering precise positioning and sufficient clamping force.
- 2.Fully automatic continuous cyclic operation with short single billet loading cycles enables 24-hour non-stop running. It eliminates production bottlenecks caused by shift changes and operator fatigue, boosting the overall production line capacity by over 25%.
- 3.Featuring reliable performance and fully automatic continuous cyclic operation with short single billet loading cycles and 24-hour non-stop operation, the machine minimizes labor requirements and greatly improves production efficiency.
4. The equipment boasts a simple structure and easy operation.

Cases and Scenarios

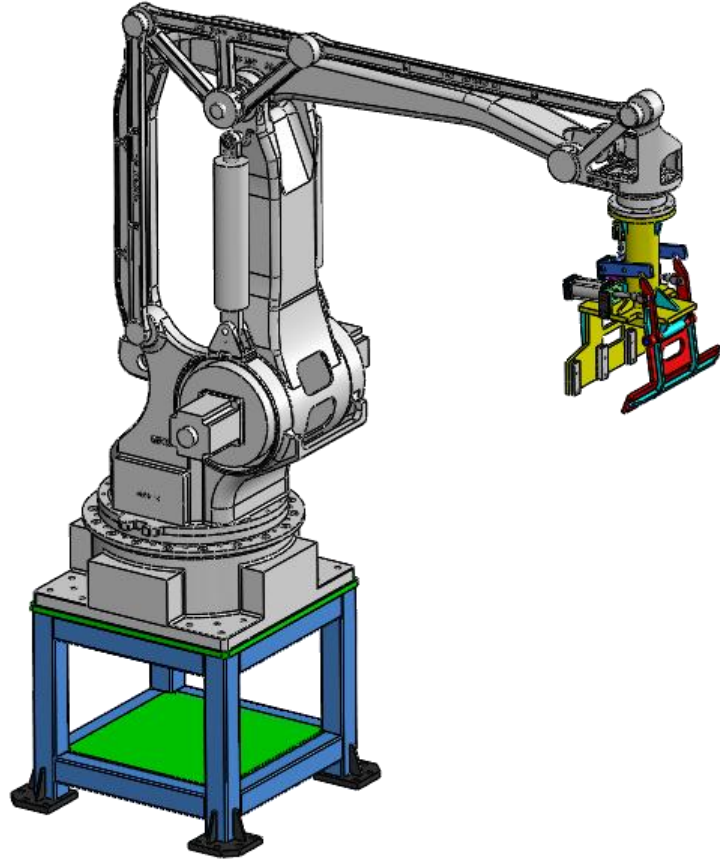


This machine adopts servo drive as the main power with a pneumatic lifting gripper structure. Equipped with an extended lifting guide rail, it delivers stable clamping and precise centering.

This machine is primarily servo-driven and fitted with a pneumatic lifting gripper mechanism. It achieves stable clamping and accurate centering, and comes with a touchscreen for convenient operation.



Industrial Robot



Industrial Robot



1.High production efficiency with continuous cyclic operation: It supports non-stop mass production for 24 hours without fatigue or interruption, greatly boosting production line cycle speed and overall output.

2.High safety performance: The gripper can be locked to prevent opening in case of sudden power failure, optimizing workshop safety and avoiding production accidents.

3.Stable equipment with low failure rate: Adopting servo drive and precision structural design, it runs smoothly with low noise and outstanding durability. Easy maintenance ensures consistent production continuity.

Patent for Invention



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广东省中山市石岐区悦来南路 38 号益华领峯大厦 1321 层之一 中山永谦专利商标代理事务所(普通合伙)
朱陆庆(13415323960)

发文日:

2024 年 04 月 16 日

申请号成专利号: 202323002425.X

发文序号: 2024041600037630

申请人成专利权人: 中山市金泽利机械设备有限公司

发明创造名称: 拉旗移动组件

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1. 根据专利法第 40 条及实施细则第 40 条的规定, 上述实用新型申请经初步审查, 没有发现驳回理由, 现作出授予实用新型专利权的通知书。

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3. 审查员依职权修改内容为:

审查员: 李陆庆
联系电话: 022-84868475

审查部: 专利审查业务部

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朱陆庆(13415323960)

发文日:

2024 年 04 月 16 日

申请号成专利号: 202323002426.4

发文序号: 2024041600037630

申请人成专利权人: 中山市金泽利机械设备有限公司

发明创造名称: 应用于轴管机的大钳装置

办理登记手续通知书

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联系电话: 010-62556655

审查部: 专利审查业务部

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2023.09

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Patents and Certificate





Cooperative Partner

Alinex



ZHONGSHAN ZOYVAN INTELLIGENT EQUIPMENT CO.,LTD



Contact:

Mobile: 18024812950

Wechat: 18024812950

Whatsapp: 86-18024812950

E-mail: torh@zoyvan.com

Website: www.zoyvan.com



Address

1/F, 10 Lianfa Road, Qianlong, Sanxiang Town, Zhongshan, Guangdong, China