



粤兴重工  
Yuexing Machinery

用粤兴，万事兴

Ushin Yuexing, prosperous everything

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2024

# 铝材智能装备一站式 服务解决方案商

A ONE-STOP SERVICE SOLUTION PROVIDER FOR  
ALUMINUM INTELLIGENT EQUIPMENT



佛山市粤兴重工机械有限公司

Foshan YueXing Machinery Equipment Co.,Ltd

# ABOUT US 关于我们



历经二十几年的铝型材挤压技术沉淀，佛山市粤兴重工机械有限公司在广东省佛山市南海区狮山镇（国家级高新技术区）建立研发基地，与知名大学建立产学研深层次合作，共同研发智能、高压节能铝型材挤压机，用科技创新为地球降温1℃。

After more than 20 years of precipitation in aluminum profile extrusion technology, Foshan Yuexing Heavy Industry Machinery Co., Ltd. has established a research and development base in Shishan Town (National High tech Zone), Nanhai District, Foshan City, Guangdong Province. It has established a deep level cooperation with well-known universities to jointly develop intelligent, high-pressure, and energy-saving aluminum profile extrusion machines, using technological innovation to cool the Earth by 1 °C.

粤兴重工挤压机产品型号从700吨~7500吨数十个机型，采用独特先进的油、电控制操作系统，智能化的数字控制及监控系统，选用原装进口元配件，使我们的产品生产过程中更稳定、挤压精度更高、非挤压时间更短等多优势。油电混合，粤兴重工挤压机在生产节能降耗中比传统机型省电20%-40%。

There are ten models of extrusion machines from Yuexing Machinery Equipment Co.,Ltd, ranging from 700 tons to 7500 tons. They adopt unique and advanced oil and electrical control operating systems, intelligent digital control and monitoring systems, and use original imported components, making our product production process more stable, with higher extrusion accuracy, and shorter non extrusion time. Oil electric hybrid, Yuexing Machinery extruder saves 20% -40% electricity compared to traditional models in production energy conservation and consumption reduction.

我们的产品服务于太阳能边框生产、新能源汽车零部件、动力电池托盘等产品提供生产解决方案。

Our products provide production solutions for solar frame production, new energy vehicle components, power battery trays, and other products.

粤兴重工全力以赴做压机品牌！坚持以客户成功为目的服务原则，致力与客户共创共赢齐发展！用粤兴，万事兴！

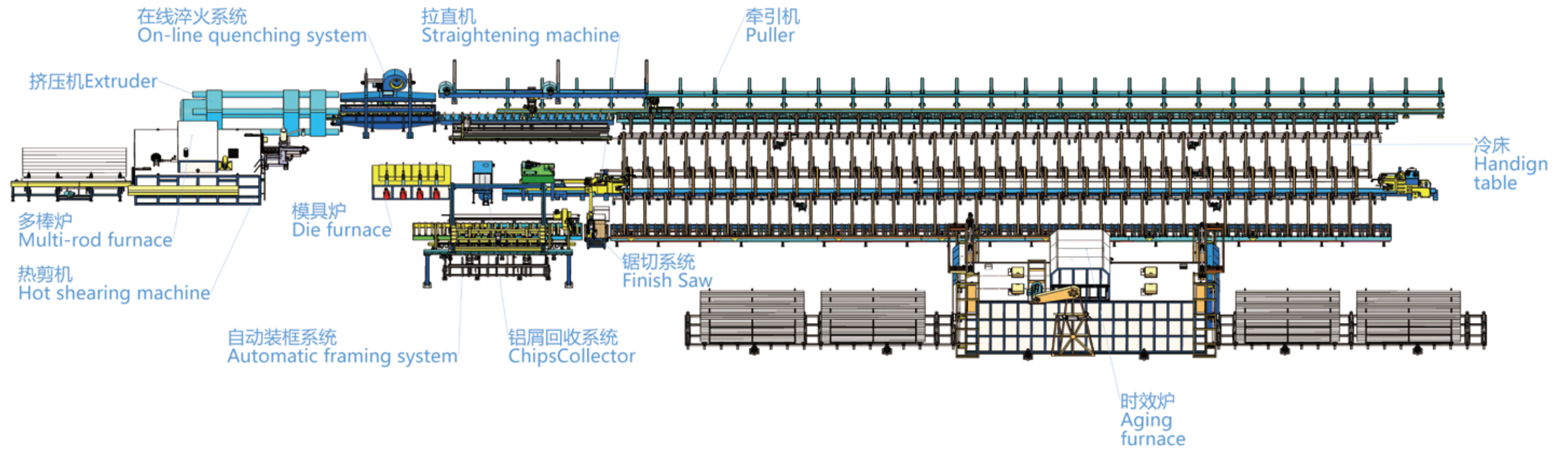
Yuexing Heavy Industry is fully committed to becoming a press brand! Adhere to the principle of serving customers with the goal of customer success, and strive to create, win, and develop together with customers! Ushin Yuexing, prosperous everything!

## 部分战略合作伙伴



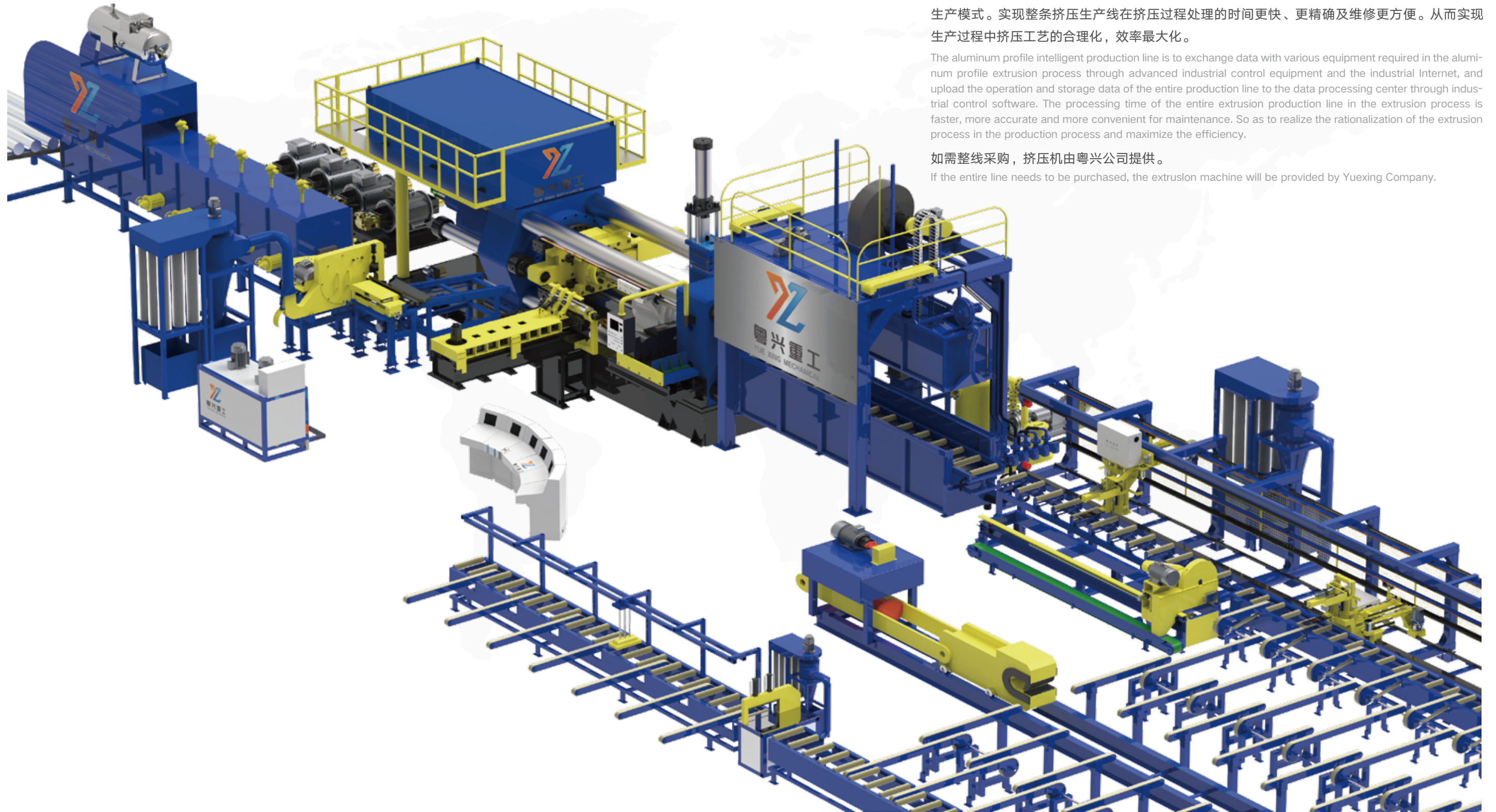


粤兴重工  
Yuexing Machinery





## 铝型材智能生产线 Intelligent aluminum extrusion production line



### 铝型材智能生产线

#### Intelligent aluminum extrusion production line

铝型材智能生产线就是通过先进的工控设备与工业互联网把铝型材挤压过程中所需的各种设备进行数据的相互交换，通过工控软件把整条生产线上的操作、储存数据上传到数据处理中心的生产模式。实现整条挤压生产线在挤压过程处理的时间更快、更精确及维修更方便。从而实现生产过程中挤压工艺的合理化，效率最大化。

The aluminum profile intelligent production line is to exchange data with various equipment required in the aluminum profile extrusion process through advanced industrial control equipment and the industrial Internet, and upload the operation and storage data of the entire production line to the data processing center through industrial control software. The processing time of the entire extrusion production line in the extrusion process is faster, more accurate and more convenient for maintenance. So as to realize the rationalization of the extrusion process in the production process and maximize the efficiency.

如需整线采购，挤压机由粤兴公司提供。

If the entire line needs to be purchased, the extrusion machine will be provided by Yuexing Company.



# 挤压机 Extrusion machine



1100T长行程挤压机  
1100T LONG STROKE EXTRUSION MACHINE



4500MT短行程后上棒挤压机  
4500MT SHORT STROKE REAR UPPER ROD EXTRUSION PRESS

产品型号 Production Type					
公吨 MT	类别 Type	铝棒直径 Billet size diameter (inch)	常规铝棒尺寸 Usage billet Dia(mm)	常规模具尺寸 Usage die Dia(mm)	常规出料口尺寸 Usage exist hole dimension(mm)
780	长行程 Long stroke	4	Ø100×580	Ø220×206	Ø130×150
800	长行程 Long stroke	4.5	Ø115×600	Ø220×206	Ø140×160
1100	长行程 Long stroke	5	Ø127×720	Ø280×280	Ø160×200
1250	短行程 Short stroke	5	Ø135×800	Ø300×280	Ø210×170
1450	短行程 Short stroke	6	Ø152×900	Ø350×340	Ø220×260
1650	短行程 Short stroke	7	Ø178×900	Ø380×380	Ø240×280
1800	短行程 Short stroke	7	Ø178×1100	Ø400×400	Ø240×280
2000	短行程 Short stroke	8	Ø203×1100	Ø420×400	Ø270×320
2200	短行程 Short stroke	8	Ø203×1100	Ø440×420	Ø270×320
2500	短行程 Short stroke	9	Ø228×1200	Ø480×520	Ø335×420
2750	短行程 Short stroke	10	Ø254×1300	Ø560×560	Ø360×450
3300	短行程 Short stroke	11	Ø278×1300	Ø590×560	Ø360×450
3600	短行程 Short stroke	12	Ø305×1300	Ø680×680	Ø370×450
4000	短行程 Short stroke	12	Ø305×1300	Ø700×700	Ø387×477
4500	短行程 Short stroke	13	Ø330×1400	Ø700×700	Ø405×495
5000	短行程 Short stroke	14	Ø355×1400	Ø720×720	Ø447×560
5500	短行程 Short stroke	15	Ø380×1500	Ø800×800	Ø482×600
6500	短行程 Short stroke	16	Ø406×1600	Ø900×850	Ø520×640
7500	短行程 Short stroke	17	Ø430×1700	Ø1000×950	Ø542×660



# 全伺服纯电三头牵引机 servo electric motors drive type three heads puller system

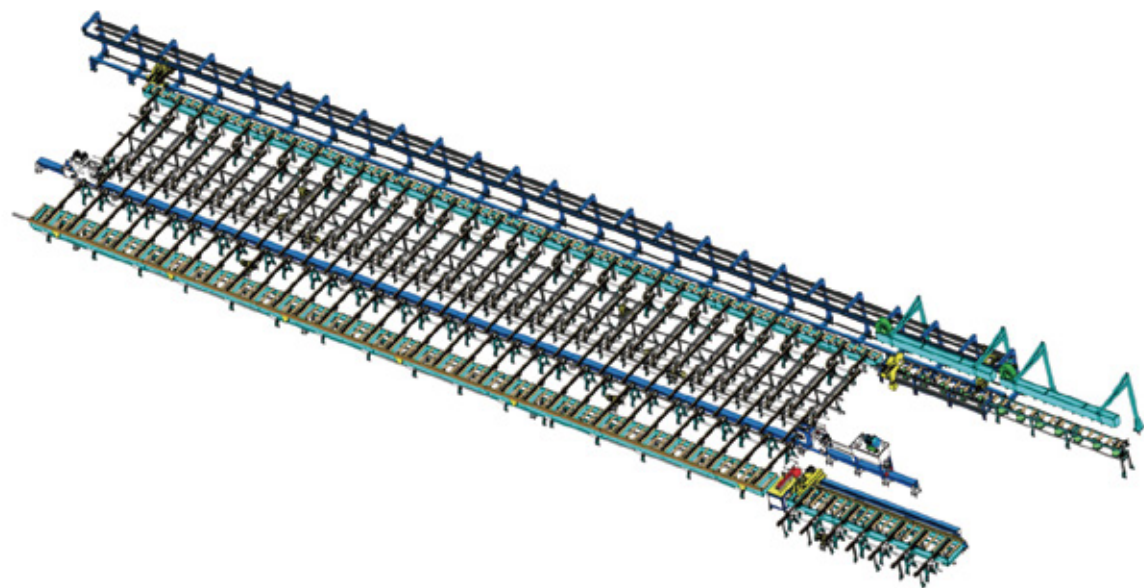


- 01 先进的西门子控制系统，综合运用工业以太网传输技术；工业互联网，极大的提高网络抗干扰性和实时程监控机器运行情况；  
Advanced Siemens control system, combined application of industrial Ethernet transmission technology; Industrial Internet, greatly improves network anti-interference and real-time performance; Real time remote machine status monitoring function.
- 02 采用最先进的控制系统，稳定的两小车往返功能，杜绝震动纹，防止铝材变形提高了产品生产的效率及成品率，适应挤压速度60-72米/分的高速挤压机；  
With the most advanced control system, stable performance of forward and backward of the puller, eliminate vibration stripe, prevent aluminum deformation, improve product production efficiency and yield. Capable for the 60-72m/min high speed extrusion press.
- 03 飞锯带智能控制系统，可根据挤压铝型材挤压速度自动调节出锯速度的快慢；  
With the help of intelligent control system and saw blade protection system, the flying saw not only can.
- 04 夹料装置使用月牙型压爪，上下开夹形式锁紧，压爪设计留有一定的自由活动空间能更好地夹紧铝型材，同时能防止压力过大，夹变形铝型材；  
Crescent shaped jaw clamping, upper and down open/close to lock up, The clamping jaw has a certain free space, which can better clamp aluminum profiles and prevent aluminum profiles deformation due to excessive pressure.
- 05 三头牵引机由P1、P2两套牵引机头和一套P3同步锯组成；  
Three head double puller machine is including 2 sets of puller head (P1 &P2) and 1 set of synchronous hot saw(P3)
- 06 采用上下两层四导轨设计，由精密电梯导轨左右结构组成；  
The upper and lower two layers four guide rail structure is adopted, which it is composed of the precise elevator guide rail parallel located.
- 07 整套三头牵引机可以24小时循环不间断工作；  
The machine can work continuously 24 hours per day without break.
- 08 牵引机所有动作均为全自动，无须人工操作，安全可靠；  
All the movements are fully automatic without manual operation, safe and reliable
- 09 适用挤压机机型(3600T~7500T)  
Suitable for 3600T~7500T press

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Suitable for 3600T~7500T press



## 冷床 Handing table



### 技术参数 TECHNICALPARAMETER

吨位 Tonnage	长*宽 Size	皮带宽度 Belt Size	锯片直径 Blade Diameter
630T	26000*6000	60mm	φ 405
700-800T	26000*6000	60mm	φ 405
1000T	26000*6000 32000*7000	60/80mm	φ 405
1250T	32000*7000	80mm	φ 455
1450T	26000*6000 32000*7000	80mm	φ 455
1800T	38000*8000	80mm	φ 500
2000T	38000*9000	80/100mm	φ 600
2200T	38000*9000 38000*10000	100mm托链式	φ 600
2500T	38000*11000 38000*12000	100mm托链式	φ 650
2750T	38000*12000 38000*13000	100mm托链式	φ 650
3000T	38000*12000 42000*13000	100mm托链式	φ 800
3600T	42000*13000 45000*13000	100mm托链式	φ 1000
4000T	45000*14000	120mm托链式	φ 1000
5500T	45000*15000 50000*16000	120/140mm托链式	φ 1300
6300T	50000*16000	140mm托链式	φ 1300-1600
7500T	60000*16000	140mm托链式	φ 1300-1600

## 调直机 Stretcher

调直机分类为:双人操作、单人操作、全自动无人操作。

主要技术参数(根据客户需求定制)

吨位涵括: 15T-600T

调直行程: 600-1500mm

高性能调直机主要特点:

- 01 整机功能通过PLC智能控制;
- 02 一键式操作动作自动完成;
- 03 按长度拉伸、按拉力拉伸、按比例拉伸;
- 04 智能储存当时材料调直工艺, 一键调用;
- 05 前后钳口带自动升降上料装置摄像头监控上料情况;
- 06 高效的液压控制;高效节能;
- 07 故障自我诊断, 简易维护。

The straightening machine is classified as: double person operation.

single person operation, and fully automatic unmanned operation.

Main technical parameters (customized according to customer needs)

WEIGHT:15T-600T

TRIP:600-1500MM

Main characteristics of high-performance straightening machine:

The entire machine function is intelligently controlled through PLC;

One click operation action automatically completed;

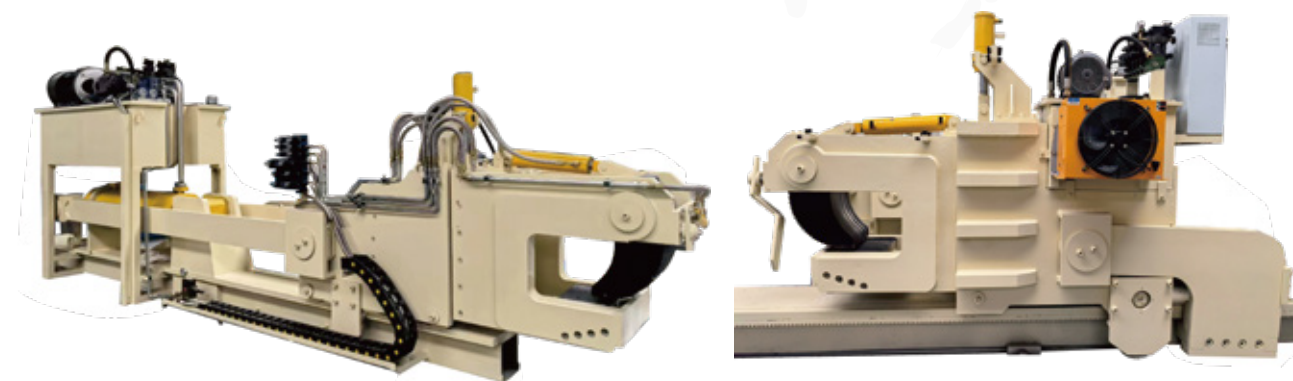
Stretch according to length,tension, and proportion;

Intelligent storage of material straightening process at that time, one click call;

Automatic lifting and feeding device for front and rear jaws; Camera monitoringof feeding situation;

Efficient hydraulic control; Efficient and energy-saving;

Self diagnosis of faults and easy maintenance.



## 成品锯和自动定尺 Finished saws and automatic sizing



高配置的自动成品锯配合自动定尺，  
能实现连续自动锯切功能。  
高效，减轻工人劳动强度。

High configuration automatic finished product saw with automatic setting  
A ruler that can achieve continuous automatic sawing function.  
Efficient and reduces the labor intensity of workers.

## 多棒长棒炉 Multi rod long rod furnace

全自动智控高效节能多棒长棒炉由:铝棒进料装置、炉体、热剪机、燃烧系统、PLC控制系统组成。

### 主要特点:

高效节能;

整机功能通过PLC智能控制;一键式操作,全部动作自动完成;  
故障自我诊断,简易维护;精确的热剪,使材料得到高效利用;  
特殊的循环风机设计,确保铝棒受热更均匀;更科学的结构,  
减少热能损失。

### 主要技术参数(根据客户需求定制)

- 01 铝棒长度:  $\leq 7000\text{mm}$
- 02 铝棒直径:  $\phi 80\text{-}\phi 350$
- 03 加热温度:  $\leq 580^\circ\text{C}$
- 04 燃料: 天然气、液化石油气、电;

The fully automatic intelligent control high-efficiency energy-saving multirod long rod furnace consists of: aluminum rod feeding device, furnace body, hot shear machine, combustion system, and PLC control system.

### Main features:

Efficient and energy-saving;

The entire machine function is intelligently controlled through PLC: One click operation, all actions are automatically completed;

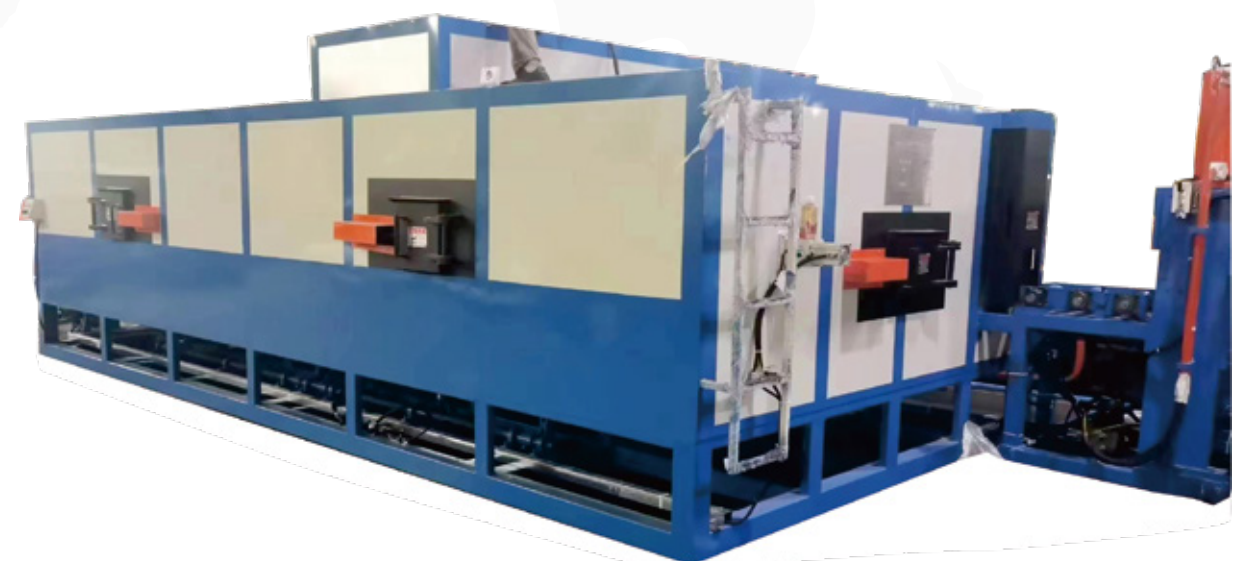
Self diagnosis of faults and easy maintenance, Accurate thermal shearing enables efficient utilization of materials;

Special circulating fan design ensures more uniform heating of aluminum bars;

A more scientific structure, Reduce thermal energy loss.

### Main technical parameters:

- 1. Aluminum rod lengths:  $\leq 7000\text{mm}$
- 2. Aluminum rod diameter:  $\phi 80\text{-}\phi 350$
- 3. Heating temperature:  $\leq 580^\circ\text{C}$
- 4. Fuel: Natural gas, liquefied petroleum gas, electricity;





## 时效炉 Mold furnace

应用了新高均温技术，高风量循环风，采用PID自动控温，高精度执行最优铝型时效工艺曲线。

### 主要特点:

- 01 升温快;
- 02 能耗低温度控制精准;
- 03 温差  $\pm 3$ 度;
- 04 操作简单;
- 05 安全稳定性好。

New high average temperature technology has been applied, with high air circulation and PID automatic temperature control, Execute the optimal aluminum mold aging process curve with high precision.

### Main features:

Fast heating up;  
Low energy consumption and precise temperature control;  
Temperature difference + 3 degrees.  
Good safety and stability;



## 模具工频炉 Induction die furnace

### 主要特点: Features

- 01 电磁感应加热;  
Electromagnetic induction heating.
- 02 根据生产工艺，对铝棒进行梯度加热，各区间温度可调;  
During the production process, the aluminum rod undergoes gradient heating, and the temperature of each section can be adjusted.
- 03 控制交变电流的频率和强度;  
Control the frequency and intensity of alternating current.
- 04 整机功能通过PLC智能控制实现；一键式操作，全部动作自动完成；  
The whole function is realized by PLC intelligent control, one-click operation, all actions are automatically completed.
- 05 记忆储存功能，一键调用已储存数据自动设定；  
Memory storage function, one-click get and automatically set up from storage data.
- 06 高效冷却系统；  
High efficiency cooling system.
- 07 故障自我诊断，通过数据传送完成远程监控与维护；  
Fault self-diagnosis, remote monitoring and maintenance by data transmission.



## 单棒加热炉 Single rod heating furnace



- 01 性能特点:单支喷射式长棒加热炉、热剪生产线是集热工、机械、自动化控制为一体的铝挤压加热设备。使用液化气或者天然气进行强化喷射加热,配合液压热剪切等多项新技术组合。与传统多棒热剪炉的能耗相比,节约燃气40%。

Performance characteristics; single jet long rod heating furnace and hot shear production line are aluminum extrusion heating equipment integrating thermal engineering, machinery and automatic control, Use liquefied petroleum gas or natural gas for enhanced jet heating, combined with multiple new technologies such as hydraulic thermal shearing. Compared with the energy consumption of traditional multi-rod hot shear furnace, it can save 40% of gas.

- 02 加热方式:分多区进行直燃式喷射快速加热铝棒,利用烟气余热预热铝棒后再进入热交换器预热助燃空气,以降低排烟温度与降低能耗;对每区进行加热控制,每个加热区都设置温度传感器对铝棒进行实时监控,可实现梯度加热。使用的燃料为:石油液化气、天然气。

Heating method: Divide into multiple zones for direct-fired injection to quickly heat the aluminum rods, use the waste heat of the flue gas to preheat the aluminum rods and then enter the heat exchanger to preheat the combustion air to reduce the exhaust gas temperature and energy consumption, for each zone For heating control, each heating zone is equipped with a temperature sensor to monitor the aluminum rod in real time, which can realize gradient heating. The fuel used is: petroleum liquefied gas, natural gas.

- 03 控制方式:PLC+触摸屏,可进行手动、半自动、全自动控制操作。

Control mode: PLC + touch screen, which can perform manual, semi-automatic and fully automatic control operations.

## 铝棒热锯机 Aluminum billet hot saw machine



- 01 铝棒热锯机是铝棒加热炉与挤压机之间衔接设备,广泛用于铝型材挤压生产线上的辅助设备;具有锯切铝棒长度准确、切口齐平等优点,能优化铝棒的使用性能同时提高了生产效率。

The aluminum billet hot saw machine is an auxiliary equipment for aluminum extrusion production line, which is a connecting device between the aluminum bar heating furnace and the extrusion press machine. It has the advantages of accurate cutting and even cutting, which can optimize the service performance of aluminum billet and improve the production efficiency.

- 02 热锯机机构主要由输送辊道、滑台式热锯、铝屑回收机构、定尺台机构、翻棒下料机构五部分组成;其功能用于帮助铝棒加热炉输送铝棒到热锯辊道上,然后根据所需铝棒长度进行自动定尺,再由热锯进行锯切分离,最后由翻棒下料机构输送到挤压机机械手上。

The hot saw machine is mainly composed of five parts: conveying roller bed, sliding type hot saw, aluminum scrap recycling unit, fixed length measuring table unit and billet turn-over feeding unit. The main function of this machine is transfer the aluminum billet from heating furnace to the hot saw roller bed, then fixed length and cutting automatically according to requirement, Finally, the aluminum billet is transferred to the mechanical hand of the extruder by billet turn-over feeding unit.

- 03 输送辊道通过减速电机带动滚轮旋转进行输送,速度与棒炉动力保持一致。

The conveying roller bed rotates the roller by a reduction motor for transmission, and the speed is consistent with the heating furnace.

- 04 滑台式热锯:电机和锯切传动机构安装在滑台上,轨迹通过直线导轨纯平移锯切,滑台平移通过伺服电机带动滚珠丝杆传动,该结构进锯平稳、速度可调节,锯切电机带变频器控制,通过检测电机转速控制滑台进退,防止电机转速下降时出现卡锯现象,能有效保护锯片。

Sliding type hot saw: The motor and sawing driving device are mounted on the sliding table, The linear guide rail achieve to flat moving track sawing, sliding table translation through ball screw driven by servo motor drive, the structure make the sawing stable, adjustable speed, Sawing motor with frequency converter control, through the detection of motor speed to control slide table back and forth, in order to prevent the stuck saw phenomenon when the motor speed down, effectively protect the saw blade.

- 05 铝屑回收机构:配置大旋风布袋回收风机进行回收,铝块和粉末进行分离回收,回收效果更佳。

Aluminum scrap recycling unit: equipped with large bag recycling blower, The separation and recovery of aluminum block and powder, which have better recovery effect.

- 06 定尺台机构通过气缸顶料机构检测棒长进行自动定尺。

The measuring table unit can automatically measure the billet length by the air cylinder ejection device.

- 07 翻棒下料机构通过气缸自动翻爪机构使铝棒滚出输送辊道,再由气缸控制下料机构送达挤压机机械手。

The turn-over feeding unit makes the aluminum billet roll out of the conveying roller bed through the automatic cylinder stripper mechanism, and then the feeding device is controlled by the cylinder and sent it to the extrusion manipulator.