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**HLT 恒力泰**  
HENG LITAI

—— 始创于1957 / SINCE 1957 ——



## 金属型材挤压机 METAL PROFILE EXTRUSION PRESS

佛山市恒力泰机械有限公司  
HLT Industry Co., Ltd.



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佛山市恒力泰机械有限公司【科达制造（股票代码：600499）的全资子公司，以下简称：恒力泰或公司】是专业从事自动液压机研发制造的民营企业，源于1957年，迄今已有60多年的历史，是国家高新技术企业、国家火炬计划重点高新技术企业、全国制造业单项冠军企业、中国建材机械20强企业、广东省装备制造业50骨干企业、广东省战略性新兴产业（智能制造）骨干企业、中国专利奖和佛山市政府质量奖获奖企业。

公司于1988年研制成功600吨级的液压自动压砖机，荣获国家科技进步奖。恒力泰生产的陶瓷压机是陶瓷生产企业的核心和关键设备，整体技术处于“国内领先、国际先进”水平，荣获国家级、省（部）级多项殊荣，是全国制造业单项冠军产品、中国陶瓷行业名牌产品、中国建材机械行业名牌产品、国家重点新产品、广东省高新技术产品和广东省名牌产品，产品覆盖国内各陶瓷主产区，并远销到亚洲、欧洲、非洲和美洲的30多个国家和地区，在国际上具有极高知名度，连续16年占据全球市场占有率的领先地位。

恒力泰建有省级工程技术研究中心和省级企业技术中心，是陶瓷砖自动液压机和透水砖自动压机行业标准的负责起草单位，也是耐火砖自动液压机行业标准的参与起草单位。公司专注自动液压机研发制造三十余载，目前已形成从600吨~36000吨共50多个规格型号的陶瓷压机、耐火砖压机、铝型材挤压机、墙体砖压机等系列产品，具备年产各类压机700台的能力，具有雄厚的研发生产实力，至今已出厂各类自动液压机接近九千台。

2017年恒力泰公司开始进军金属型材挤压机装备行业，经过技术调研充分了解了各种生产工艺，经过精心研发及制做，首先成功推出了YPL2000型材挤压机，现已成功推出了YPL2500、YPL3000、YPL3600、YPL4000、YPL5000、YPL6000等系列铝型材挤压机。

依托丰富的自动液压机设计、制造经验及雄厚的研发创新能力，公司可按照客户的工艺要求进行工艺试验，根据试验的结果针对性确定产品参数和性能指标，为各行业客户提供成熟高效的定制化产品服务。现已推出YPT透水砖自动液压机，YPR1300T氧化铝自动液压机，YP2080锂电池材料压机，YPR4000T靶材压机等系列产品，服务于多个行业，后续新产品将陆续面世，让恒力泰的卓越产品服务于更多的行业。

恒力泰有着六十余年的装备研发和生产技术沉淀及品牌影响力。展望未来，佛山市恒力泰机械有限公司将与各界同仁携手合作，伴随国家“一带一路”发展战略，积极参与国际市场竞争，为继续做强做大中国机械装备产业作出贡献。

HLT Industry Co., Ltd. [a wholly-owned subsidiary of KEDA Industrial Group Co., Ltd. (stock code: 600499), hereinafter referred to as: HLT] is a private enterprise specializing in the research and development and manufacturing of automatic hydraulic presses. It was established in 1957 and has been more than 60 years history, it is a national high-tech enterprise, a key high-tech enterprise of the National Torch Program, a single champion enterprise in the national manufacturing industry, a top 20 Chinese building materials machinery enterprise, a 50 backbone enterprise in the equipment manufacturing industry of Guangdong Province, and a strategic emerging industry in Guangdong Province (Intelligent Manufacturing) Key Enterprise, China Patent Award and Foshan Municipal Government Quality Award Winning Enterprise.

The company successfully developed a 600-ton hydraulic automatic brick press in 1988 and won the National Science and Technology Progress Award. The ceramic tile press produced by HLT is the core and key equipment of ceramic manufacturers. The overall technology is at the level of "domestic leading and international advanced". It has won many national and provincial (ministerial) awards, and is a single champion in the national manufacturing industry. famous-brand products in China's ceramic industry, famous-brand products in China's building materials machinery industry, national key new products, high-tech products in Guangdong Province, and famous-brand products in Guangdong Province. The products cover the main ceramic production areas in China and are exported to more than 30 countries and regions in Asia, Europe, Africa and Americas, are well-known internationally, and have occupied a leading position in the global market share for 16 consecutive years.

HLT has a provincial engineering technology research center and a provincial enterprise technology center. It is responsible for drafting the industry standards for ceramic tile automatic hydraulic presses and permeable brick automatic hydraulic presses, and is also a participating unit in drafting industry standards for refractory brick automatic hydraulic presses. The company has focused on the development and manufacture of automatic hydraulic presses for more than 30 years. At present, it has formed more than 50 specifications and models of ceramic presses, refractory brick presses, aluminum extrusion presses, wall brick presses and other products ranging from 600 tons to 36,000 tons. It has the ability to produce 700 units of various types of presses per year, and has strong R&D and production capabilities. So far, HLT has been provided nearly 9,000 units of various automatic hydraulic presses to the customers.

In 2017, HLT began to enter the metal profile extrusion press equipment industry. After technical investigations, fully understood various production processes. After careful research and development and manufacturing, it first successfully launched the YPL2000 aluminum extrusion press, and now has been successfully launched YPL2500, YPL3000, YPL3600, YPL4000, YPL5000, YPL6000 etc. the series of aluminum extrusion presses.

Relying on rich automatic hydraulic press design, manufacturing experience and strong R&D and innovation capabilities, the company can conduct process tests according to customer process requirements, and determine product parameters and performance indicators based on the results of the test, providing customers in various industries with mature and efficient customization product service. A series of new products such as YPT permeable brick automatic hydraulic press, YPR1300T alumina automatic hydraulic press, YP2080 lithium battery material press, YPR4000T palladium press and other series of new products have been launched, serving many industries, and subsequent new products will be launched one after another, letting HLT's excellence Products serve more industries.

HLT has more than 60 years of equipment R&D and production technology precipitation and brand influence. Looking forward to the future, HLT will work hand in hand with colleagues from all walks of life to actively participate in international market competition along with the national "One Belt One Road" development strategy, and contribute to the continued strengthening and expansion of China's machinery and equipment industry.





## 产品优势

## PRODUCT ADVANTAGE

1

### 全预应力主体框架结构 Complete prestressed main frame structure

大大提高了挤压机架的结构强度和整体刚性，有效保证机架的疲劳寿命，有利于保证制品的质量。

Greatly improve the structural strength and overall rigidity of the extruder frame, effectively guarantee the fatigue life of the frame, and helpful to ensure the quality of the product.

2

### 变频式容积调速控制 Frequency conversion type volumetric speed control

采用力士乐高频响、高精度伺服变量泵与变频电机相结合，同时兼顾了速度调节的精确度、快速性和节能性，速度调节灵敏度高，恒速控制精度高，有利于提升产品质量。

The combination of Rexroth's high-frequency response, high-precision servo variable pump and variable frequency motor, while taking into account the accuracy, rapidity and energy saving of speed adjustment, speed adjustment with high sensitivity, constant speed control with high accuracy, is conducive to improving product quality.

3

### 短行程主机结构 Short-stroke main structure

框架具有更好的精度和更小的变形，提高挤压头和挤压筒的使用寿命，减少了液压油使用量，发热损失小，提高了速度控制的精度，缩短了非挤压辅助时间。

The frame has better accuracy and smaller deformation, improves the service life of the extrusion head and the container, reduces the amount of hydraulic oil used, and reduces heat loss, improves the accuracy of speed control, and shortens the non-extrusion auxiliary time.

4

### 移动式压余剪 Mobile butt shear

采用移动式压余剪结构，铲刀回程时，不会将铲刀上的残余料污染到模具端面，保证合模可靠性并减少挤压缺陷。

The mobile butt shear structure is adopted. When the blade returns, the residual material on the blade will not be contaminated to the end face of the mold, which ensures the reliability of mold clamping and reduces extrusion defects.

5

### 模座锁紧机构 Die stack locking device

配有模座锁紧机构，确保压余剪切干净均匀，有利于可靠合模和多孔挤压控制。

Equipped with a die stack locking device to ensure the butt is sheared cleanly and evenly, which is conducive to reliable mold clamping and multi-hole extrusion control.

6

### 挤压杆锁定和快速拆装 Extrusion stem locking and quick disassembly

挤压时不会产生挤压杆垂头，提高挤压精度，提高挤压头和挤压筒寿命，也有利于多孔挤压；具有挤压杆快速拆装功能，更换挤压杆更方便快捷。

There'll be no sag for extrusion stem during extruding, which improves the accuracy of extrusion, increases the life of the extrusion head and the container, and is also conducive to multi-hole extrusion; it has the function of quick disassembly and assembly of the extrusion stem, making it easier and faster to replace the extrusion stem.

7

### 挤压筒对中检测功能 Container centering detection function

工作中实时检测挤压筒的位置精度，确保工作时的主机精度，保证生产质量的稳定。

Real-time detection of the position accuracy of the container during work, to ensure the accuracy of the main frame during work, and ensure the stability of production quality.

8

### 高可靠的高压管路 High-reliable high-pressure pipeline

所有高压钢管全部采用非焊接形式，密封可靠性高，故障率低。

All high-pressure steel pipes are non-welded pipes, with high sealing reliability and low failure rate.

9

### 工艺参数存贮功能 Process parameter storage function

可以将不同的生产工艺参数进行存贮，便于重复生产时直接使用，降低操作难度，提高生产效率。

Different production process parameters can be stored, which is convenient for direct obtain during repeated production, reducing operation difficulty and improving production efficiency.

10

### 远程监控与维护 Operation process monitoring and maintenance

通过互联网可对挤压机实现远程工作状态监控，参数修改，故障诊断排除及程序修改，大大提升服务效率。

Through the Internet, it is possible to monitor the working status of the extruder, modify the parameters, diagnose and eliminate the fault, and modify the program, which greatly improves the service efficiency.

11

### 自诊断功能 Self-diagnosis function

具备完善的故障报警提示和自我诊断功能，处理故障简单易行。

With perfect fault alarm prompt and self-diagnosis function, it is simple and easy to handle faults.

12

### 挤压工艺适用性强 Strong applicability of extrusion process

可按工艺需求直接设定挤压速度控制曲线，设备会自动按设定的挤压速度曲线完成工艺动作输出，满足不同产品的工艺控制要求。

The extrusion speed control curve can be set directly according to the process requirements, and the equipment will automatically complete the process action output according to the extrusion speed curve setting to meet the process control requirements of different products.

13

### 可靠高效的辅助机械 Reliable and efficient auxiliary machinery

精确自动测铝棒长度的推棒装置与可伸缩的自适应高效送棒器，挤压筒和挤压杆的回程距离可以依据实际铝棒长度进行控制，最大限度的节约非挤压时间。

Bar pushing device with accurately and automatically measuring the length of aluminum bar, and the retractable automatic adaptive high-efficiency bar feeder, the return distance of the container and the extrusion stem can be controlled according to the actual aluminum bar length, saving non-extrusion time to the greatest extent.



## 成熟先进的生产制造体系

### MATURE AND ADVANCED MANUFACTURING SYSTEM

专业生产自动液压机三十余载，对自动液压机中的主关件具有丰富的生产制造经验和独到的核心技术，保证零部件的加工精度与装配效果，提高设备工作的稳定性、可靠性。

Specializing in the production of automatic hydraulic press for more than 30 years, HLT has rich manufacturing experience and unique core technology for the main components of automatic hydraulic press, ensuring the processing accuracy and assembly effects of parts and components, and improving the stability and reliability of equipment



▲ 2米龙门加工中心  
2M GANTRY MACHINING CENTER



▲ 2.5米数控立车  
2.5M CNC VERTICAL LATHE



▲ 125卧式加工中心  
125 HORIZONTAL MACHINING CENTER



▲ 6920数控镗床  
6920 BORING MACHINE



▲ 8米数控卧车  
8M CNC BEDDING EQUIPMENT



▲ 4米立车  
4M VERTICAL LATHE



▲ 8米数控龙门铣  
8M CNC GANTRY MILLING MACHINE



## 健全有效的质量保证体系

### SOUND AND EFFECTIVE QUALITY CONTROL SYSTEM

铝型材挤压机在制造过程中每一个环节都要经过严格的质量把关，确保每一个制造环节都能够满足相关要求，铝型材挤压机在制造过程质量的把控从材料进货、零件的加工、装配、整机试验都必须达到相关标准要求，同时对每一台机都进行全生命周期的质量管理。

Every step in the manufacturing process of the aluminum extrusion press must undergo strict quality control to ensure that each manufacturing step can meet the relevant requirements. The quality of the aluminum extrusion press in the manufacturing process is controlled include the purchase of materials and the processing of components, assembling and testing of the whole machine, which must meet the requirements of relevant standards. At the same time, the quality management of the whole life cycle is carried out for each machine.



**主要部件运行精度检测** OPERATION ACCURACY DETECTION OF MAIN COMPONENTS



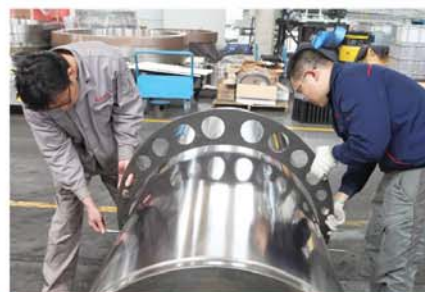
**零件金相组织分析**  
METALLOGRAPHIC ANALYSIS OF COMPONENTS



**主机装配精度检测**  
PRESS ASSEMBLY ACCURACY DETECTION



**无损硬度检测**  
NON-DESTRUCTIVE HARDNESS TESTING



**零件关键部位尺寸检测**  
DIMENSIONAL INSPECTION OF KEY PARTS OF COMPONENTS



**零件尺寸检测**  
SIZE INSPECTION OF COMPONENT



**粗糙度检测与分析**  
ROUGHNESS DETECTION AND ANALYSIS



**零件超声波探伤检验**  
ULTRASONIC INSPECTION OF COMPONENTS



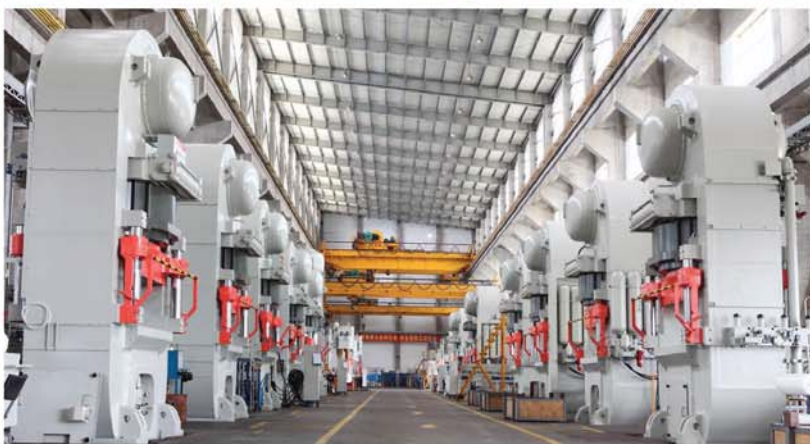
**零件化学成分检测与分析**  
CHEMICAL COMPOSITION DETECTION AND ANALYSIS OF COMPONENTS



稳定可靠    高效节能    功能齐全    绿色环保

## 生产过程执行管理系统 (MES)

MANUFACTURING EXECUTION SYSTEM



## 产品介绍

PRODUCT INTRODUCTION

### YPL2000 正向单动挤压机

SINGLE ACTION DIRECT EXTRUSION PRESS



## 产品介绍

### PRODUCT INTRODUCTION

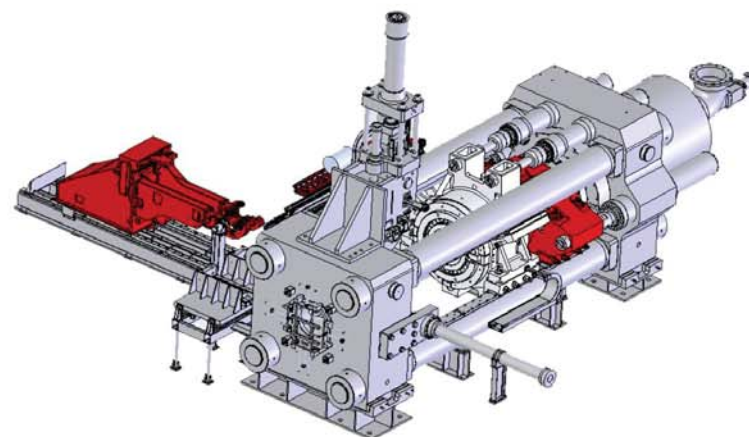
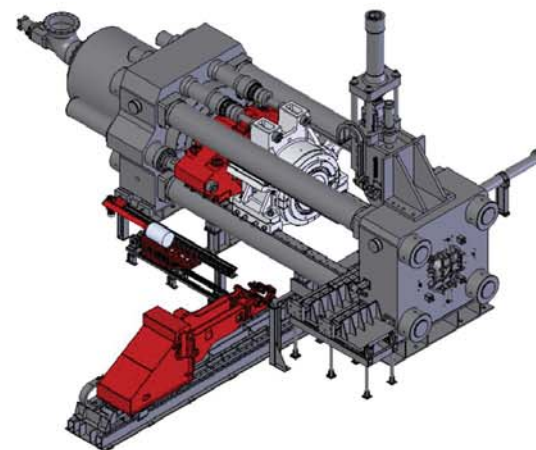
## YPL2500 正向单动挤压机

SINGLE ACTION DIRECT EXTRUSION PRESS



## YPL6000 正向单动挤压机

SINGLE ACTION DIRECT EXTRUSION PRESS





## 主体部分

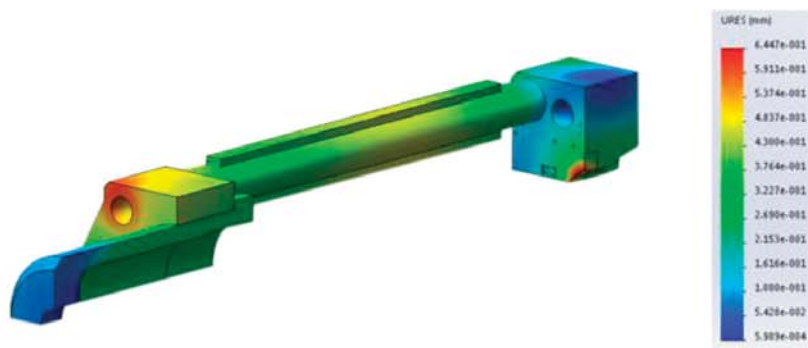
### MAIN BODY OF THE PRESS

#### 主机特点：

- 主机关键零件采用锻件，提高材料机械性能；
- 框架及关键零件采用有限元仿真计算，保证结构强度与刚度满足使用要求；
- 采用移动式压余剪结构，在铲刀回程时，铲刀上的残余料不会接触到模具端面，避免因此而造成型材产品缺陷；
- 带有模座锁紧机构，在挤压和铲余料时，模具不会产生晃动，提高产品质量，也有利于多孔挤压控制。
- 配备挤压筒对中检测装置，实时监控对中情况。

#### Main body features:

- Forgings are used for the key parts of the main body to improve the mechanical performance of the material;
- The frame and key parts adopt finite element simulation calculation to ensure that the structural strength and rigidity meet the operation requirements;
- Adopting mobile residual butt shear structure, during the return stroke of the blade, the residual material on the blade will not touch the end face of the mold, so as to avoid the defect of the product due to this.
- Equipped with die stack locking device, the mold will not shake when extrusion and residual scissoring, which improves the product quality and is also conducive to the control of multi-hole extrusion.
- Equipped with a centering detection device for the container to monitor the centering situation in real time.



## 液压泵站

### HYDRAULIC PUMP STATION

#### 液压泵站特点：

- 采用多个高频响高精度DFEN伺服比例泵，结合变频调速，挤压恒速精度高，稳定性好，节能效果更好，在生产效率与节能方面达到了很好的平衡；
- 采用多变量泵组合方式灵活适应压机各种工况，高效节能；
- 所有高压钢管全部采用非焊接形式，密封可靠性高；



#### Hydraulic pump station features:

- Using multiple high-frequency response high-precision DFEN servo proportional pumps, combined with frequency conversion speed regulation, high precision for constant speed extrusion, good stability, better energy saving, reach a good balance between production efficiency and energy saving;
- Adopt multi-variable pump combination mode to flexibly adapt to various working conditions of the press, high efficiency and energy saving;
- All high-pressure steel pipes are non-welded pipes, with high sealing reliability;

## 电气控制系统

### ELECTRONIC SYSTEM

- 电控系统采用高性能可编程控制器和国际顶级品牌电气元件，工作性能稳定可靠；  
High-performance PLC and top brand electronics to ensure system reliability and stability.
- 人性化的人机界面功能丰富，可实现多种状态显示及操作提示，易于操作；  
Intuitive HMI with rich functions, multiple status and operation display for easy operation.
- 完善的各种保护功能，确保操作人员人身安全和设备安全；  
Plentiful safety measures to ensure personnel and equipment safety.
- 全数字化的参数设定和调整，调节方便准确；  
Fully digitalized parameter setting makes it easier to adjust.
- 具备完善的故障报警和自我诊断功能，处理故障简单易行；  
Alarm and self-diagnosis system for easy and effective trouble-shooting.
- 通过互联网可对压机实现远程工作状态监控、参数修改及故障诊断排除等；  
Monitor of machine working condition, change of parameter and remote diagnosis, all possible via internet.



## 压机智能管理系统

### PRESS INTELLIGENT MANAGEMENT SYSTEM

#### 1.智能运维：运行监控，消息推送

Intelligent operation and maintenance: Operation monitoring, Notification forwarding

#### 2.智能群组：多机组网，同步控制，生产调配

Smart grouping: Press networking, Synchronous control, Production optimization

#### 3.智能控制：状态学习，优化控制

Intelligent control: State learning, Optimized control

#### 4.能源管理：优化能效，节省能耗

Energy Control: Energy efficiency optimization, Energy conservation

#### 5.数据分析：统计分析，报表生成

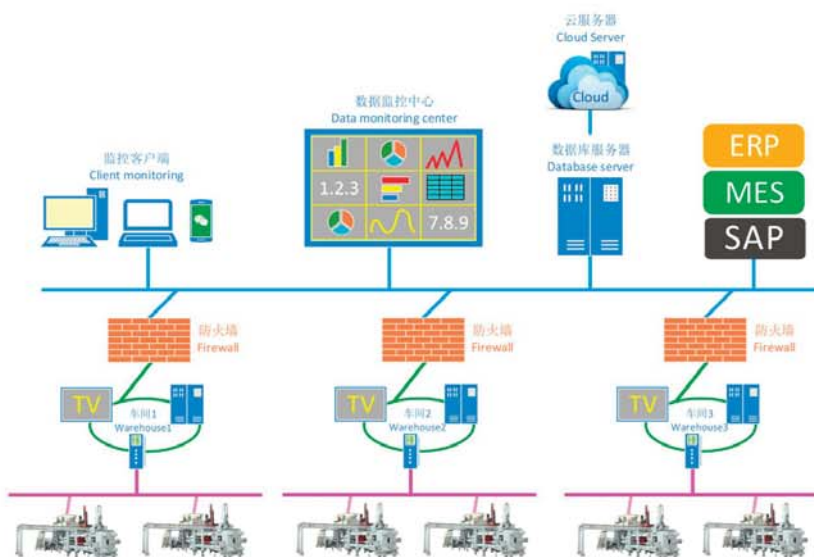
Data analysis: Statistics analysis, Statement generation

#### 6.数据接口：与MES、ERP连接，数据上传

Data interface: Connects with MES, ERP, Data upload

#### 7.远程支持：程序升级，故障排查

Remote support: Program upgrading, Trouble shooting



### 压机智能监控系统 INTELLIGENT MONITORING SYSTEM

#### YPL2500压机数据监控系统



## 压机专用液压油

### PRESS HYDRAULIC OIL

恒力泰压机专用液压油采用国际顶级液压油技术专门研制，精选优质基础油和高性能符合添加剂调配而成，特别适用于恒力泰自动液压机系统的传动与润滑。

### 恒力泰压机专用油C2/C3/合成型C4

采用美国雪佛龙公司技术，是专为恒力泰压砖机研制的优质压机专用油。

#### 恒力泰压机专用油 C2

- ◆ 优秀的抗磨性能，给设备全面的保护，有效延长设备使用寿命。
- ◆ 出色的氧化稳定性，减少停机时间，实现更长的油品的使用寿命。
- ◆ 良好的抗泡性和水分分离特性，确保设备安全无故障运行。

#### 恒力泰压机专用油 C3

##### 产品特点 Customer Benefits

- ◆ 加强抗磨性能，给设备全面的保护，有效延长设备使用寿命。
- ◆ 加强氧化稳定性，减少停机时间，实现更长的油品的使用寿命。
- ◆ 良好的抗泡性和水分分离特性，确保设备安全无故障运行。
- ◆ 通过苛刻的恒力泰高温浸泡试验和压机缺油测试。

#### 恒力泰压机合成型专用油 C4

##### 产品特点 Customer Benefits

- ◆ 采用雪佛龙合成型配方。
- ◆ 优秀的抗磨性能，给设备全面的保护，有效延长设备使用寿命。
- ◆ 出色的氧化稳定性，减少停机时间，实现更长的油品的使用寿命。
- ◆ 良好的抗泡性和水分分离特性，确保设备安全无故障运行。



恒力泰压机专用油C2/C3/合成型C4

### 恒力泰压机专用油合成型液压油P1

恒力泰压机专用油P1是采用全球十大润滑油公司之一的马石油优质合成基础油ETRO和精选添加剂为恒力泰压机专门研制的合成型液压油，满足最新博世力士乐RDE-90235的要求，为液压泵提供可靠的保护，延长设备使用寿命。

恒力泰压机专用油P1通过了苛刻的30天高温浸泡试验、压机缺油测试以及恶劣条件下陶瓷生产厂商现场测试。

#### 超长油品使用寿命，延长换油周期

- ◆ 拥有马石油三类基础油ETRO带来的高粘度指数，在高温时粘度更稳定，更容易在高剪切条件下保持油品黏性能和系统清洁
- ◆ 出色的热稳定性和氧化稳定性，在较高温度和极高压力下保持油品性能水平。油品TOST试验达6500小时，是GB标准的6.5倍，降低客户的综合使用成本



恒力泰压机专用油 P1 合成型液压油



**优质零备件**  
QUALITY SPARE PARTS



## 挤压机系列基本参数

### BASIC PARAMETERS OF ALUMINUM EXTRUSION PRESS SERIES

#### 挤压机技术参数

#### Technical parameters

公称力(公吨) Nomal force (Tons)	类别 Category	系统压力 (MPa) System pressure	铝棒规格 (英寸) Aluminum bar specifications ( inch )	铝棒规格 ( mm ) 直径X长度 Aluminum bar specifications(mm) Diameter X length	挤压筒面压 (kg/mm2) Extrusion barrel surface pressure	出料口尺寸 ( mm ) Outlet size
2000	短行程 Short stroke	29	7	178X1100	75.2	Φ210/L250
2500	短行程 Short stroke	29	8	203X1350	72.2	Φ250/L350
2500	短行程 Short stroke	29	9	228X1000	57.2	Φ250/L350
3000	短行程 Short stroke	30	10	254X1200	55.2	Φ300/L400
3600	短行程 Short stroke	30	12	305X1200	46.9	Φ360/L450
4000	短行程 Short stroke	30	13	330X1300	44.3	Φ380/L500
5000	短行程 Short stroke	31	14	356X1500	47.8	Φ450/L600
6000	短行程 Short stroke	31	16	406X1500	44.1	Φ480/L620
7500	短行程 Short stroke	31	18	432X1700	45.7	Φ550/L780
10000	短行程 Short stroke	31	20	508X1800	47.3	Φ650/L900

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