

Chuwang Automation
Enterprise/Product Album
June 10th, 2025

楚旺自动化
企业/产品画册
2025/06/10

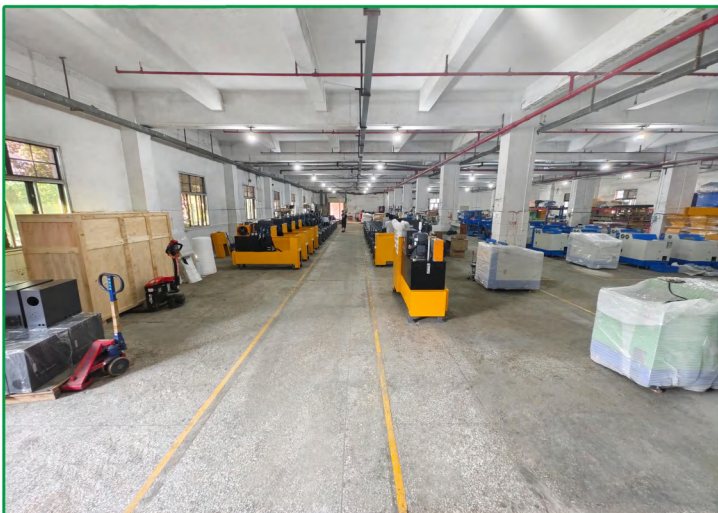
节能 • 环保 • 增值
机加工企业 好帮手



金属刨丝/屑粉 $\xrightarrow{\text{压缩成}}$ 圆柱形饼块



深圳市楚旺自动化有限公司
SHENZHEN CHUWANG AUTOMATION CO., LTD.



深圳市楚旺自动化有限公司，成立于2010年，企业集研发、生产、销售于一体，拥有26年自动化设备领域研发经验，多项设备软件著作权、发明专利、实用新型专利和外观专利，服务的客户超1800+工厂。。。

当前主营，专利产品：

数控插齿机：内/外圆面插齿(批花)加工专用机床，分度精细，效率高，适用于钟表、**照相机**、连接器、瞄准镜、高档旋钮等行业的生产配套。投入市场已经16年，设备精度稳定、可靠，第一代设备仍在工作中。

“全铝照相机镜头圈插齿工艺”的应用，彻底改变了“照相机镜头圈加装外套胶皮齿圈防滑”的做法。这一创新技术的应用，不仅带来了防滑效果的显著提升，而且推动了照相机镜头圈制造行业的整体进步，具有变革性的意义！”

切粉压缩机：压缩机加工废料体积、回收切削油/液，为客户解决废料占用仓储空间大、油液浪费大和环保问题。国内首家小型金属压块机原创厂家，17年研发，19年开始批量生产，80%的客户来自转介绍！



Shenzhen Chuwang Automation Co., Ltd. was established in 2010. The enterprise integrates research and development, production and sales. It has 26 years of research and development experience in the field of automation equipment, as well as multiple equipment software copyrights, invention patents, utility model patents and design patents. At present, it has more than 1,800 customers at home and abroad.

Current main business, patented products:

CNC gear shaper:

A special machine tool for gear shaping (knurling) on the inner/outer cylindrical surface. It has fine indexing and high efficiency and is suitable for production and supporting in industries such as watches, cameras, connectors, sight glasses, high-end knobs and so on. It has been on the market for 15 years, and there has been no quality problem with the main configuration of the equipment.

The application of the "all-aluminum camera lens ring gear shaping process" has completely changed the practice of "adding an outer rubber toothed ring to the camera lens ring for anti-slip". The application of this innovative technology not only brings a significant improvement in anti-slip effect but also promotes the overall progress of the camera lens ring manufacturing industry and is of revolutionary significance!

Powder Cutting Compressor:

It is used to compress the volume of machining waste and recycle cutting oil and cutting fluid, solving customers' problems of large warehouse space occupation by waste, severe oil-fluid waste, and environmental protection issues. As the first original manufacturer of small metal briquetting machines in China, it developed the product in 2017, started mass production in 2019, and 80% of its customers come from referrals!

01 公司简介 Company Profile 1-2

专注自动化设备26年

Dedicated to automation equipment for 26 years.

当前主营专利设备：数控插齿机 切粉压缩机

Currently, our main patented equipment: CNC gear shaping machine and cutting powder compressor.

02 数控插齿机：内/外圆面插齿/批花专用机床 4-5

CNC gear shaper: A special machine tool for gear shaping/ knurling on inner and outer cylindrical surfaces.

03 切粉压缩机：金属切削废屑压饼挤油一体机..... 6-14

Cutting powder compressor: An integrated machine for pressing metal cutting waste scraps into cakes and squeezing oil.

04 选择我们的理由 Reasons to Choose Us..... 15-18

楚旺自动化，原创设备厂家，专注高质量设备

Chuwang Automation, an original equipment manufacturer, focuses on high-quality equipment.

降低故障率=增加复购率和转介率

Reducing failure rate is equal to increasing repurchase rate and referral rate.

05 部分客户 Part of the customers..... 尾页

联系我们 Contact us..... 尾页



总齿数设定: 120 Z 数据设定界面一
 实际加工齿数: 120 Z 当前位置显示: 0 C
 进刀初始位置设定: 1200 C
 每次切削深度设定 (单位: 1C=0.01mm) 设置错误清零

第1刀	第2刀	第3刀	第4刀	第5刀	第6刀	第7刀	第8刀	第9刀	第10刀	第11刀	第12刀	第13刀	第14刀
20	4	0	0	0	0	0	0	0	0	0	0	0	0

设置刀数显示: 0 刀
 切削总深度值: 0 C

模式: 1 分齿模式

当前位置显示: 0

在料松 切削关 上死点 回原点 自动画面

齿数	角度	齿数	角度	齿数	角度	齿数	角度	齿数	角度	齿数	角度	齿数	角度	齿数	角度
1	11	21	31	41	51	61	71	81	91	101	111	121	131	141	151
2	12	22	32	42	52	62	72	82	92	102	112	122	132	142	152
3	13	23	33	43	53	63	73	83	93	103	113	123	133	143	153
4	14	24	34	44	54	64	74	84	94	104	114	124	134	144	154
5	15	25	35	45	55	65	75	85	95	105	115	125	135	145	155
6	16	26	36	46	56	66	76	86	96	106	116	126	136	146	156
7	17	27	37	47	57	67	77	87	97	107	117	127	137	147	157
8	18	28	38	48	58	68	78	88	98	108	118	128	138	148	158
9	19	29	39	49	59	69	79	89	99	109	119	129	139	149	159
10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160

适用范围 Scope of application:

本机为内/外圆面插齿(批花)加工专用机床, 分度精细, 效率高, 适用于钟表、照相机、连接器、瞄准镜、高档旋钮等行业的生产配套。

This machine is a special machine tool for gearshaping process on inner and outer cylindrical surfaces. It has fine indexing and high efficiency and is suitable for production support in industries such as watches, cameras, connectors, sights and high-end knobs.

机床特点 Machine features:

- 1、齿数可任意设定;
- 2、进刀深度可任意设定, 最小设定深度为0.01MM;
- 3、分层/分齿/跳齿加工, 最大进刀次数达56次;
- 4、加工运行速度自由可调, 最高加工265刀/分钟;
- 5、触摸屏操作, 人性化的操作界面, 可以随时看到加工状态;
- 6、一键操作模式, 一个开关包含:
自动启动、回原点、暂停三个机床常用功能;
- 7、自动对刀功能及各种手动操作功能;
- 8、自动计数及单件加工计时功能;
- 9、为保证工件同心度手动状态可以使用车夹具功能。

1. The number of teeth can be set arbitrarily.
2. The feed depth can be set arbitrarily, and the minimum set depth is 0.01MM.
3. Layered/geared/jumping tooth processing, with a maximum feed number of 56 times.
4. The processing running speed can be freely adjusted, with a maximum processing speed of 265 cuts per minute.
5. Touch screen operation and a user-friendly operation interface allow you to see the processing status at any time.
6. One-key operation mode. A switch contains three commonly used machine tool functions: automatic start, return to origin, and pause.
7. Automatic tool setting function and various manual operation functions.
8. Automatic counting and single-piece processing timing function.
9. In order to ensure the concentricity of the workpiece, the lathe fixture function can be used in manual state.

基本参数 Basic parameters:

电压 单相 AC220V
 功率 2 KW
 压缩空气 4~6kg/cm²
 润滑方式 32#导轨润滑油
 体积(最大外形尺寸) 长 1400*宽 900*高 1460MM
 重量 900KG
 工作方式 半自动

Voltage: Single-phase AC220V.
 Power: 2 KW.
 Compressed air: 4 - 6 kg/cm².
 Lubrication method: 32# guide rail lubricating oil.
 Volume (maximum overall dimension):
 Length 1400 * Width 900 * Height 1460MM.
 Weight: 900KG.
 Working mode: Semi-automatic.

照相机镜头圈
Camera focusing ring



望远镜 显微镜
Telescope, microscope



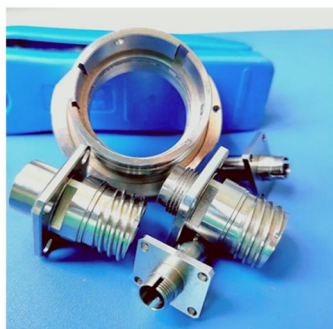
钟表表盘外圈
Outer ring of watch dial



高档旋钮
High-end knob



连接器 航空接头
Connector, aviation connector



手表表的
Watch crown



杂件
Miscellaneous parts



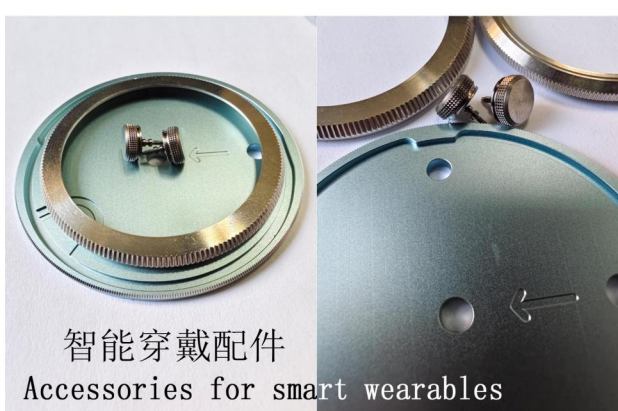
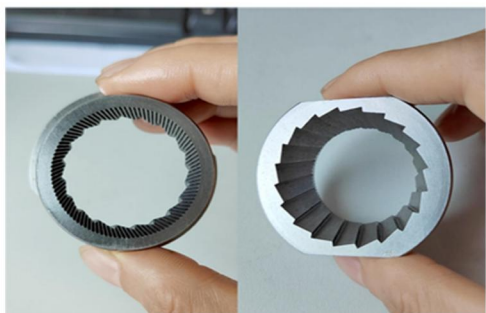
瞄准镜 军工
Sight, military



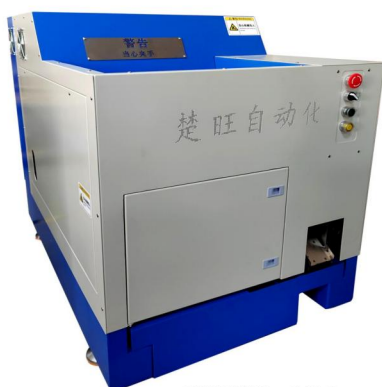
传动配件
Transmission parts



研磨机配件
Accessories for grinding machine



智能穿戴配件
Accessories for smart wearables



CWIYS-002



CWIYS-003



CWIYS-004

设备原理:

电机带动螺杆横向进给，然后借助液压系统，将送入模具的废料在高压下冷压成圆柱体，同时挤压出冷却液。

The motor drives the screw rod to feed laterally, and then with the help of the hydraulic system, the scrap fed into the mold is cold pressed into a cylindrical under high pressure, and the cooling fluid is extruded at the same time.

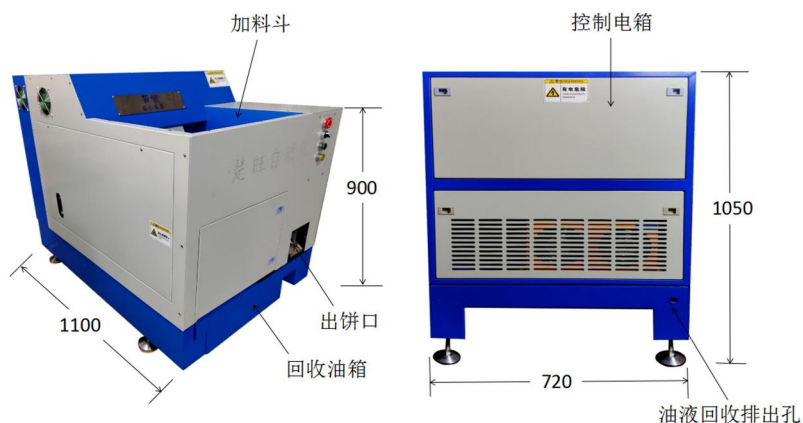
设计理念:

分散式处理废料，设备小每小时耗电一度，放在车间，清理机床废料连着切削液一起，就近倒在压饼机料斗，机器不停工作，把液体挤出在底部收集箱，液体会根据感应器自动抽出到指定油桶，斗里没料自动停机，下一位放料顺便捡一下前面压的饼，只是清理工作排下队，顺手就解决这些废料的问题：

1. 废料存储占地大
2. 油液浪费，回收不方便
3. 装袋、转运、甩油麻烦
4. 车间环境想提升
5. 废料过秤不方便
6. 压饼存放安全环保
7. 压饼可增值

Disperse the treatment of metal waste. The equipment is small and only requires one degree of electricity per hour. Place it in the workshop or nearby the machine tool. When cleaning the machine tool, pour the waste and cutting oil together into the hopper of the cake press. The machine works continuously and squeezes the liquid into the bottom collection box. The liquid will be automatically extracted to the designated oil drum according to the sensor. When there is no material in the hopper, the machine will automatically stop. The next colleague who comes to put in materials can pick up the previously pressed metal cake block by the way. Just line up the waste cleaning work and these waste problems can be easily solved.

1. Solve the problem of large area occupied by waste storage.
2. Solve the problem of waste of cutting oil and inconvenient recycling.
3. Save the troublesome work such as bagging, transporting and removing oil from waste.
4. Improve the clean image of the workshop.
5. Solve the inconvenience of weighing waste.
6. Pressing waste into cake blocks for safe and environmentally friendly storage.
7. Pressing waste into cake blocks can increase in value.

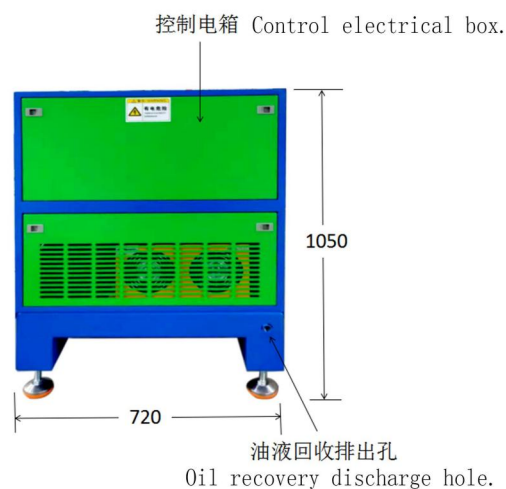
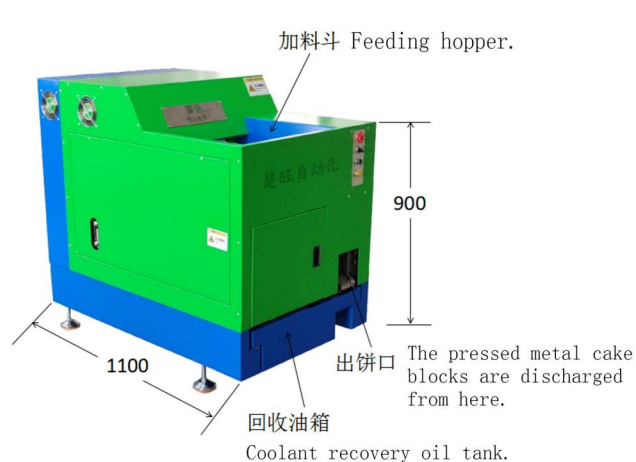


在这里接上油管，油箱里面的油满了，会自动抽出到连接好的油桶里面去。

基本参数:

1 外形尺寸	W720*D1100*H1050mm	10 最大加压力	42吨
2 加料斗加入尺寸	520*450mm	11 适用材质	铝/不锈钢/铁/铜/镁合金/等
3 加料斗入口高度	900mm	12 适用切粉类型	车床/CNC/锯床
4 加料斗容量	50L	13 切粉压缩体积比	车床长卷料30:1 CNC/锯床切粉8:1
5 接油器容量	18L	14 周期时间	约24秒（投入压缩部的时间除外）
6 切粉压入方式	螺旋	15 重量	600kg
7 切粉压缩方式	油缸	16 电源	3相 380V
8 压缩后尺寸	Φ 70*10~50mm	17 功率	3KVA
9 压缩面压力	1080kgf/cm		

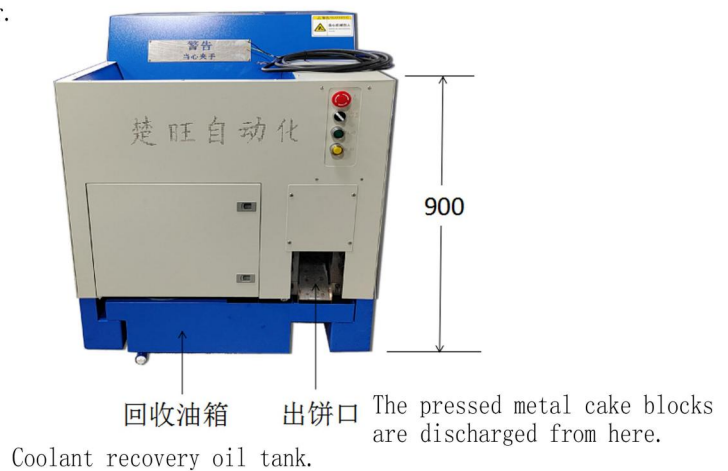
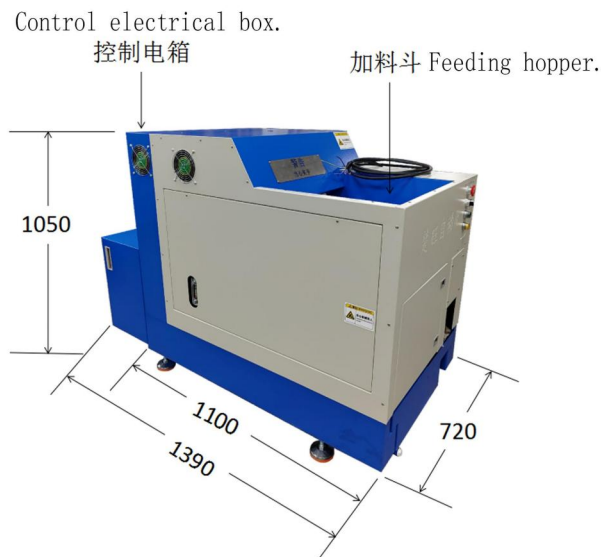
- 1 External dimensions: W720D1100H1050.
- 2 Feeding hopper addition size: 520*450mm.
- 3 Feeding hopper inlet height: 900mm.
- 4 Feeding hopper capacity: 50L.
- 5 Oil receiver capacity: 18L.
- 6 Cutting powder pressing method: screw.
- 7 Cutting powder compression method: oil cylinder.
- 8 Compressed size: Φ 70*10~50mm.
- 9 Compression surface pressure: 1080kgf/cm.
- 10 Maximum applied pressure: 42 tons.
- 11 Applicable materials: aluminum/stainless steel/iron/copper/magnesium alloy/etc.
- 12 Applicable cutting powder types: lathe/CNC/sawing machine.
- 13 Cutting powder compression volume ratio: lathe long coiled material 30:1
- 14 Cutting powder compression volume ratio: CNC/sawing machine cutting powder 8:1.
- 15 Cycle time: Approximately 24 seconds(excluding the time for putting into the compression part).
- 16 Weight: 600kg.
- 17 Power supply: 3-phase 380V.
- 18 Power: 3KVA.



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1 外形尺寸	W720*D1100*H1050mm	10 最大加压力	42吨
2 加料斗加入尺寸	520*450mm	11 适用材质	铝/不锈钢/铁/铜/镁合金/等
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基本参数:

1 外形尺寸	W720*D1390*H1050mm
2 加料斗加入尺寸	520*450mm
3 加料斗入口高度	900mm
4 加料斗容量	50L
5 接油器容量	18L
6 切粉压入方式	螺旋
7 切粉压缩方式	油缸
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13 切粉压缩体积比	车床长卷料30:1 CNC/锯床切粉8:1
14 周期时间	约15秒 (投入压缩部的时间除外)
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车床/CNC/锯床等加工产生的刨丝、切粉

Shavings and cutting powder generated by processing such as lathes, CNCs, and sawing machines.

铝丝 aluminum wire



铝渣 aluminum slag



铝粉 aluminum powder



铁屑 iron filings



易车铁 free cutting steel



球墨铸铁 nodular cast iron



铁渣 iron scoria



不锈钢 stainless steel



钢渣 steel slag



铜屑 copper filings



铜渣 copper slag



紫铜 pure copper



镁合金 magnesium alloy



锌合金 zinc alloy



钛合金 titanium alloy



切粉压缩机/使用效果 POWDER CUTTING COMPRESSOR/USE EFFECT

省空间 压缩比例：车床长丝料 **30:1** 加工中心碎渣料 **8:1**



原来需要30个平方放废料



一个铁桶装2000斤压缩饼

For long silk materials on lathes, the volume is reduced by 30 times.
For scrap materials from machining centers, the volume is reduced by 8 times.
The effect of saving space is immediately visible.

省油液 回收循环利用率：切削油 **95%** 以上，切削液 **97%** 以上



原来一个月要用掉13桶

现在节省到只需要2~3桶

The fuel-saving effect is very obvious. Originally, 13 barrels of cutting oil were used in a month. Now only 2 to 3 barrels are needed every month.

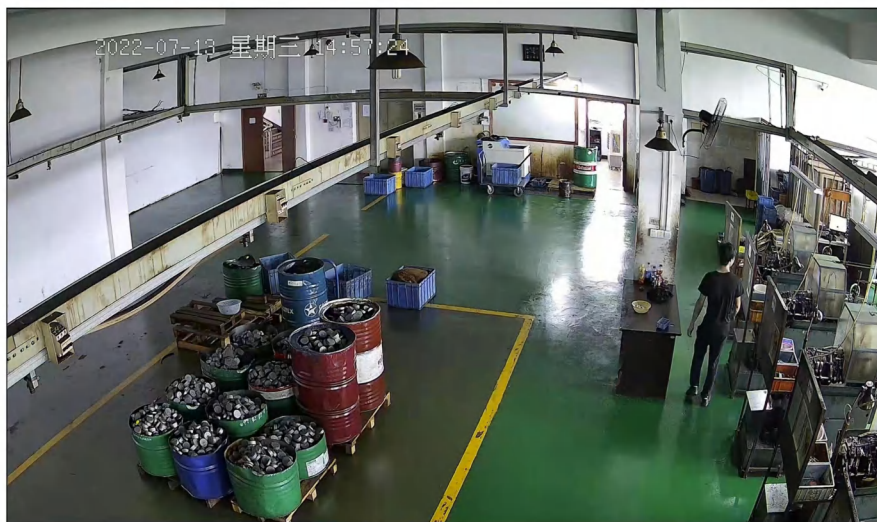
省时省力 传统静置滤油、甩油模式：**又脏又累，甩不干净**



小型金属压块机，**压饼挤油同步完成，省时省力，挤压更干净**；很多客户带甩过油的过来，还能再挤出油。

The waste compression and oil squeezing are completed simultaneously, which is time - saving and labor - saving. Moreover, in this way, the oil in the waste can be squeezed out more thoroughly. Many customers bring the waste that has been centrifuged to remove oil, and more oil can still be squeezed out from the waste.

安全环保 改变脏乱差，提升企业洁净形象，解决环保问题



不用将废料运出车间，就能完成压饼挤油的工作，有效防止在废料转运过程中，料渣与油液洒落得车间、走道、楼梯间到处都是的情况发生。

镁合金、锌合金、钛合金等屑沫，散放易氧化易燃，一点点也不方便出售，压成饼块之后方便储存，同时减少空气接触面，可以有效降低存放危险系数。

Without transporting waste materials out of the workshop, the work of pressing into cakes and squeezing out oil can be completed, effectively preventing the situation where slag and oil are scattered everywhere in the workshop, aisle and stairwell during the waste material transportation process.

For scraps such as magnesium alloy, zinc alloy and titanium alloy, when stored in a scattered way, they are prone to oxidation and flammability. Moreover, if there is too little waste material, it is inconvenient to sell. After being pressed into cake blocks, it is convenient for storage. At the same time, reducing the contact area with air can effectively reduce the risk coefficient.

新型方块机

轻松搞掂

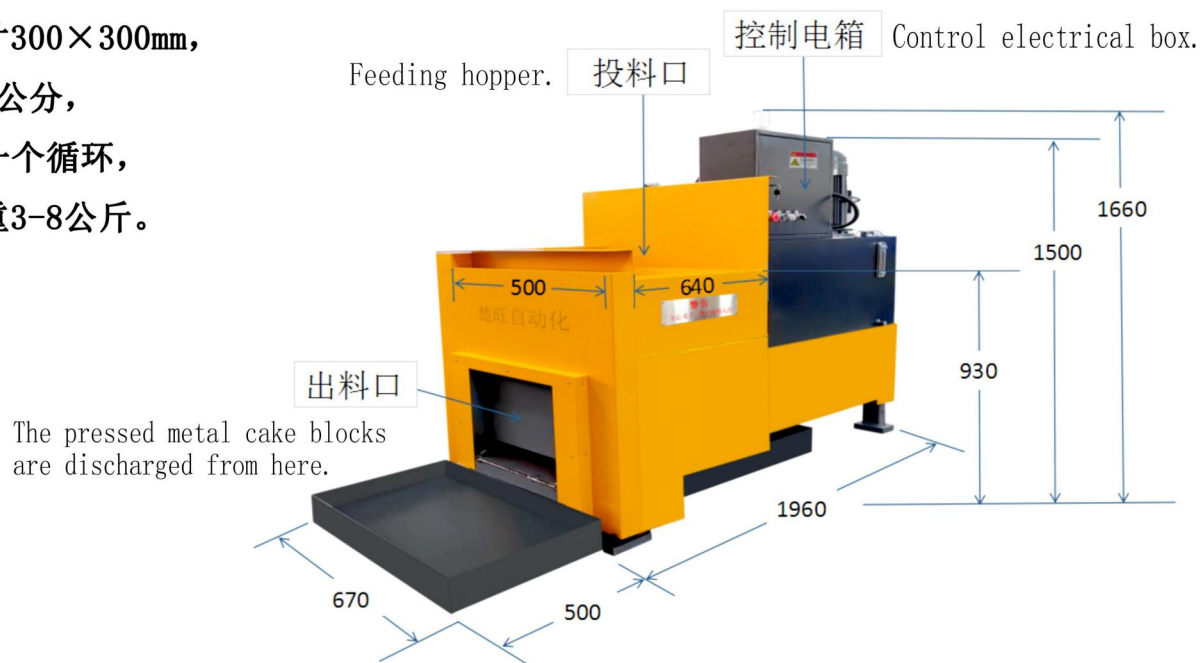
车床长铁屑/不锈钢屑/各类团屑/卷屑

饼块尺寸 $300 \times 300\text{mm}$,

厚度3-8公分,

36秒钟一个循环,

单个饼重3-8公斤。



它的优势是投料方便，单向一次成型，产能高，饼块大小重量合适，搬动码放轻松，一个人就可以完成操作。

Its advantages are convenient feeding, one-way single forming, high production capacity, suitable size and weight of cake blocks, easy handling and stacking, and can be operated by one person.

基本参数:

1 外形尺寸	W1960*D670*H1660mm	8 最大加压力	100吨
2 加料斗加入尺寸	640*500mm	9 适用材质	铝/不锈钢/铁/铜/镁合金等不同材质的长丝/卷料
3 加料斗入口高度	930mm	10 周期时间	约36秒（投入压缩部的时间除外）
4 加料斗容量	70L	11 重量	1400kg
5 接油器容量	47L	12 电源	3相 380V
6 切粉压缩方式	油缸	13 功率	7.5KVA
7 压缩后尺寸	300*300*30~80mm		

1 External dimensions: W1960D670H1660mm.

2 Feeding hopper addition size: 640*500mm.

3 Feeding hopper inlet height: 930mm.

4 Feeding hopper capacity: 70L.

5 Oil receiver capacity: 47L.

6 Cutting powder pressing method: screw.

7 Maximum applied pressure: 100 tons.

8 Compressed size: 300*300*30~80mm.

9 Applicable materials: The strip-shaped aluminum, stainless steel, iron, etc. generated during the lathe processing.

10 Cycle time: Approximately 36 seconds(excluding the time for putting into the compression part).

11 Weight : 1400kg.

12 Power supply: 3-phase 380V.

13 Power: 7.5KVA.





原创厂家的优秀品格：只做高质量的设备，做长久生意

1、深耕自动化设备领域26年，经验丰富技术过硬，做自己的专利设备；十几年的供应商伙伴和生产团队，设备配置、加工装配技术成熟可靠。

2、小型金属压块机，国内我们是第一家，客户众多，早期就收获了大量反馈。秉持精益求精的态度，不断优化和升级产品。目前投入市场7年多，核心关键配置从未出现过损坏，作业稳定，非常省心。

Excellent qualities of original manufacturers:

Only produce high-quality equipment and do long-term business.

1. Having been deeply engaged in the field of automation equipment for 26 years, we have rich experience and excellent technology and make our own patented equipment. We have supplier partners and production teams that have been around for more than a decade. The equipment configuration, processing and assembly technologies are mature and reliable.

2. For small metal briquetting machines, we are the first in China. There are many customers, and a large number of feedbacks were received early on. Adhering to the attitude of continuous improvement, we constantly optimize and upgrade our products. At present, it has been on the market for more than seven years. The core and key configurations have never been damaged. The operation is stable and very worry-free.

选择我们

切粉压缩机，17年研发，19年开始批量生产



数控插齿机，16年的老设备了还在继续提供售后服务



选择我们

降低故障率=增加复购率和转介率



选择我们 降低故障率=增加复购率和转介率



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