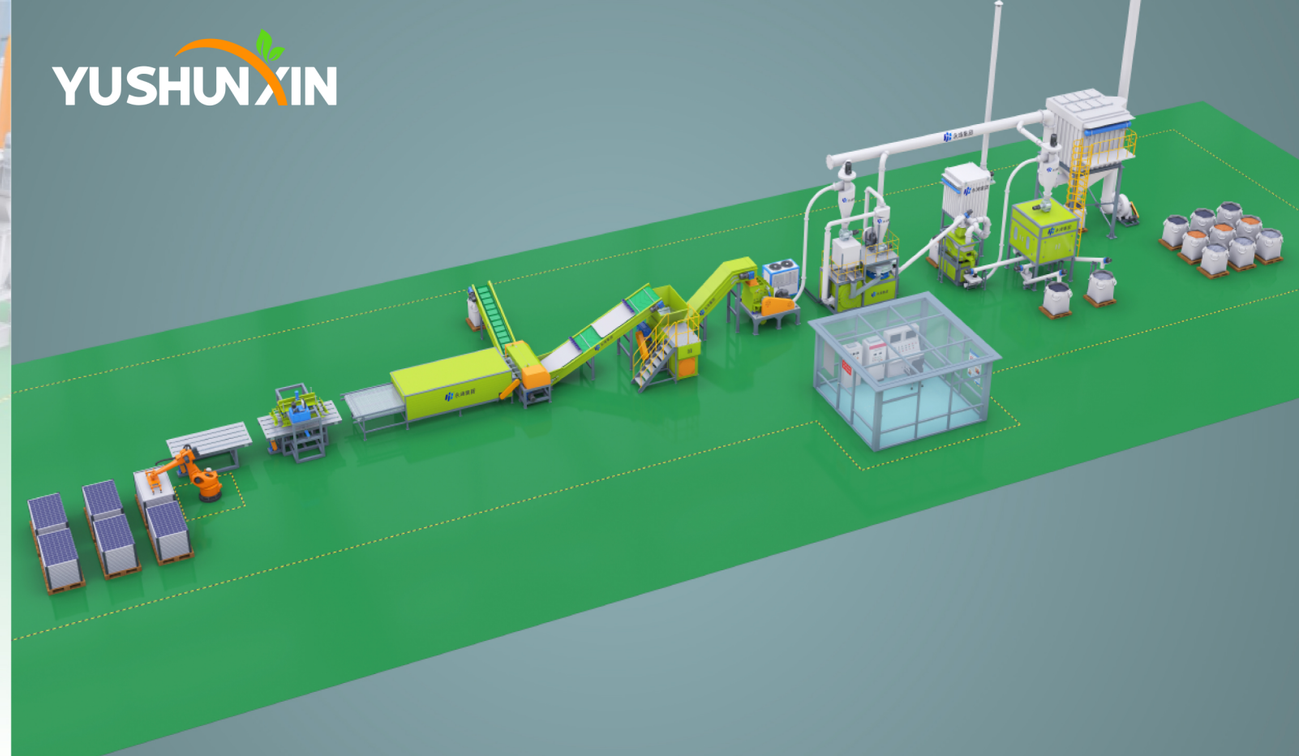


YUSHUNXIN
GLOBAL TRADE AND INDUSTRY



Henan **Yushunxin** Machine Co.Ltd.

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Company Profile

YOTO Group established a startup company in Zhengzhou, Henan Province in 2008, dedicated to developing the global market and providing an integrated industrial chain encompassing product development, production, and sales.Among its subsidiaries, Henan Yushunxin Technology Heavy Industry Co., Ltd is a professional manufacturer specializing in the research and production of solar panel and lithium battery recycling equipment.

Henan Yushunxin Technology Heavy Industry Co., Ltd. is a leading brand of environmental protection equipment in China. Founded in September 23, 2005, the company's factory, located in xing yang, Zhengzhou, has introduced internationally advanced large and medium-sized precision processing equipment.

The company boasts a high-quality professional team of environmental protection equipment experts, professors, and senior engineers, dedicated to the research, development, manufacturing, and promotion of lithium battery and solar panel recycling equipment.Established in 2005, through years of reform and development, Yushunxin Machinery has achieved numerous honors. These honors are recognition from society and the public, affirmation of Yushunxin products by consumers, and testament to the excellent reputation of Yushunxin Machinery.

The equipment produced by the company is complete in specifications, of superior quality, and all indicators meet or exceed national standards. Our products are distributed throughout China and around the world, providing a one-stop service encompassing design, manufacturing, installation, commissioning, and technical training.



YUSHUNXIN

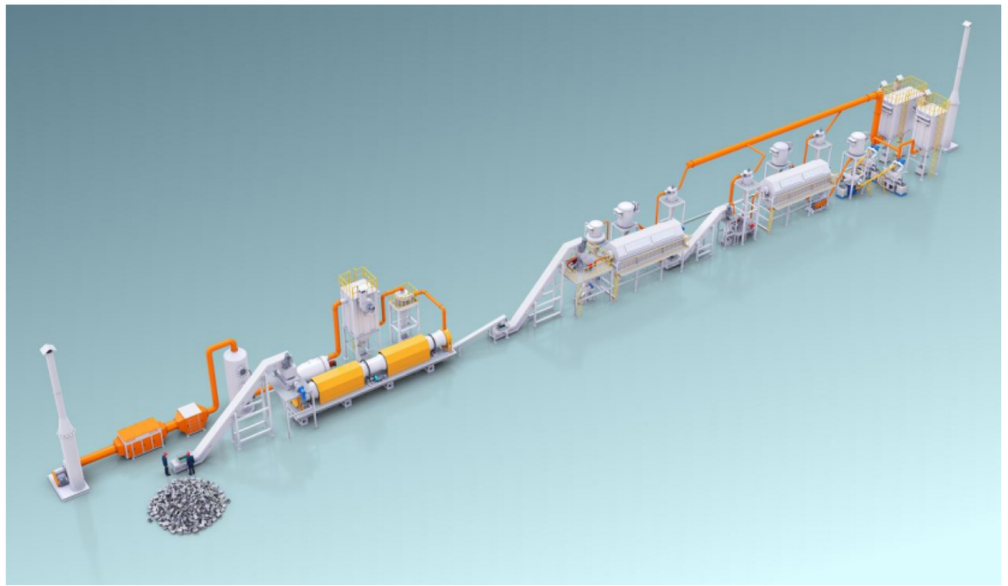
Lithium battery recycling production line

The technical solution of this equipment is mainly aimed at waste single lithium batteries as the material. Based on its material characteristics and in combination with actual work

The process mainly uses physical crushing methods, combined with air flow separation and vibrating screening techniques, to process the positive and negative electrode materials within

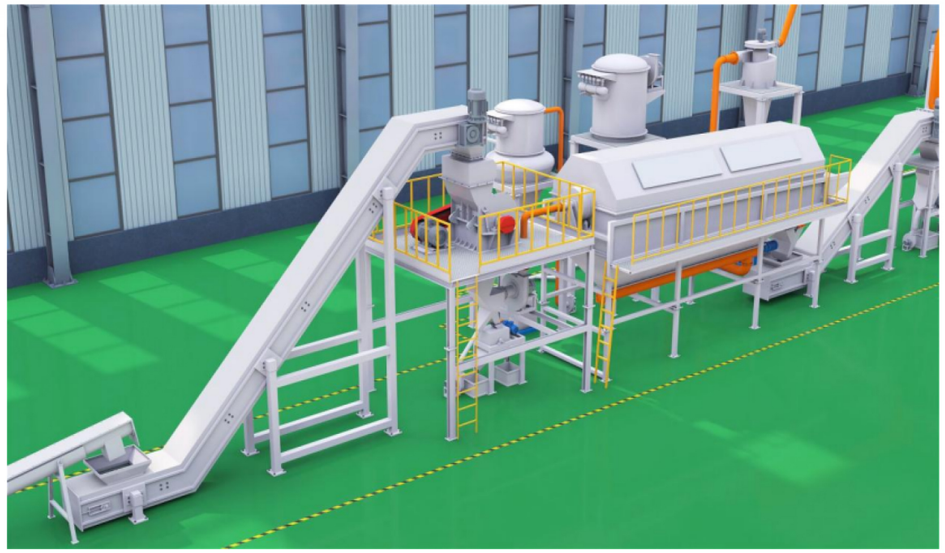
Separate the materials from the valuable metals. Finally, materials such as black powder (mixed powder of positive and negative electrodes), copper, aluminum, and iron strips were obtained. place

The waste gas in the processing is purified and treated through environmental protection equipment.



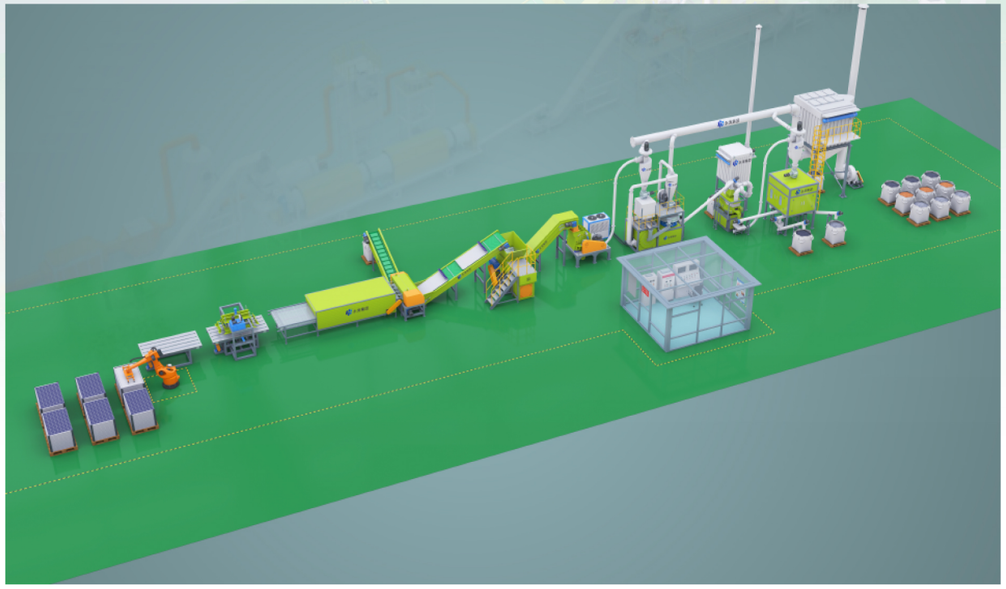
No.	Description	Parameter
1	Scope of application	Waste lithium battery recycling line
2	Capacity	500kg/h
3	Main Power	300KW
4	Finished products	Black powder, aluminum granules, copper granules and other waste materials can be sorted out
5	Floor area	60m*7m*7m





No.	Description	Parameter
1	Scope of application	Waste lithium battery recycling line
2	Capacity	1000kg/h
3	Main Power	349KW
4	Finished products	Black powder, aluminum granules, copper granules and other waste materials can be sorted out
5	Floor area	80m*7m*7m

Solar panel recycling production line–YSX



1: Mechancal line for single glass solar panel

Model	Processing capacity	Total power	Land requirement
YSX–1000	1 t/h	277.6kw	36*6*6m

Working process

1:Using the alumunum frame removal machine to remove the frame first.

2:Using the glass removal machine to remove the glass in the single glass solar panel.

3:The shredder will crush the solar panel to size 3–4cm

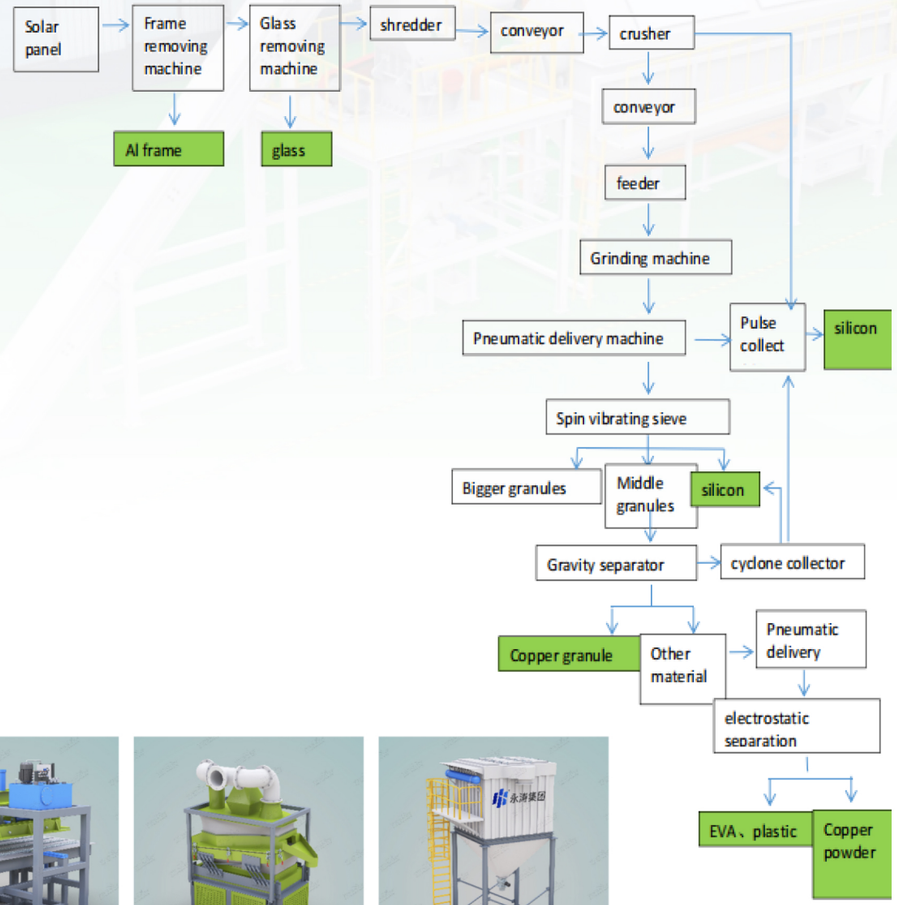
4:The hammer crusher will crush the soalr panel to size 6–8mm

5:Grinding mill will grind the material to size 10–80mesh

6:Gravity separator will separate the copper from silicon powder and plastic powder

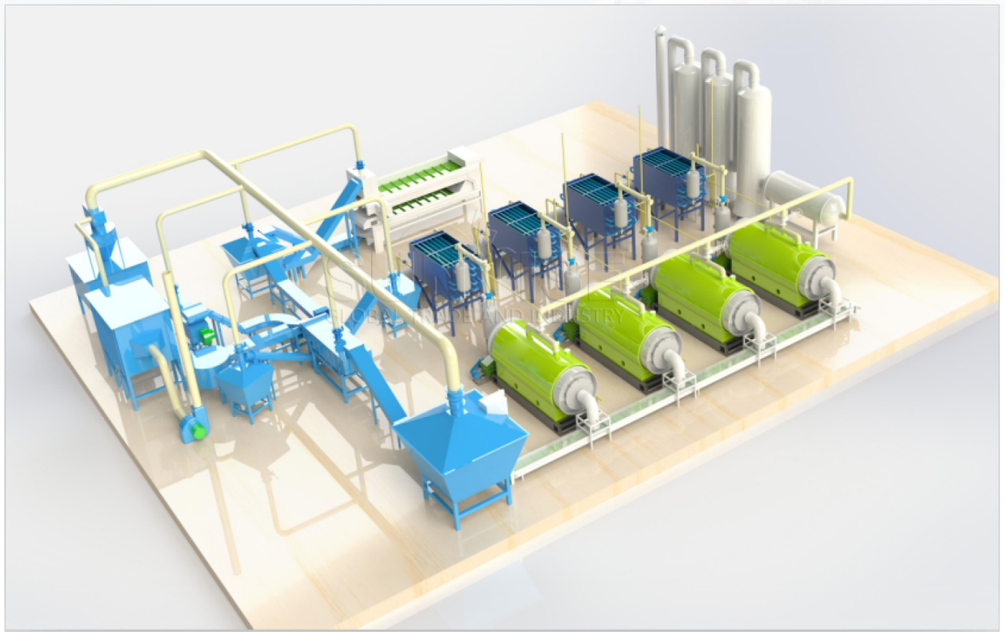
7:The electrostatic separator will separate the silicon powder from the plastic powder

Working flowchart:





2:Pyrolysis production line for mixed single and double glass solar panel&silver extraction



Model	Processing capacity	Pyrolysis furnace size	Land requirement
YSX-8000	8 t/d	∅2200*6000*20mm	50*30*8m
YSX-16000	16 t/d	∅2800*6600*18mm	60*30*8m

Working process

Dismantle aluminum frame

Dismantle machine remove aluminum frame of solar panel, which is ready for put panel into next processing of pyrolysis.



Pyrolysis processing

Solar panel without aluminum frame is put into pyrolysis reactor without needing to remove dirties such as sand, water, etc. EV glue will be evaporated during pyrolysis reacting and mixed with other exhaust will be collected as fuel oil by multiple separation, condenser, etc. after purified.Glass and silicon will be output for next processing. Syngas generated during this processing will return to heat reactor. Which can reduce total running cost.



Separation processing

Solid matters such as glass scraps, copper, silver, silicon will output from pyrolysis reactor and go into screening system for doing multiple screening to get copper, silicon, silver and glass.



Sliver extraction processing

The sliver extraction line includes two parts,one is the rough process,you could get 90% purity rough silver.the second is the refining process,you could get 99.99% purity silver ingot.



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