

DOING
HENAN DOING

废物处理资源再生
ENERGY REGENERATION

河南东盈环资科技有限公司

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DOING GROUP

东盈宗旨：客户的成功就是我们最大的成功。
我们将致力于为客户提供最优的解决方案、最佳的机器质量和最优质的售后服务。

DOING's Aim: Customers' success is DOING's success. We will be committed to providing customers with the best solution, the best quality equipment and best after-sales service.

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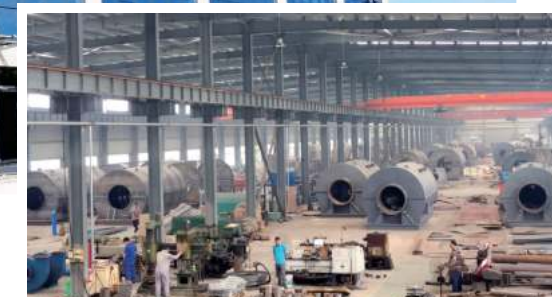
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公司展示 COMPANY SHOW



FACTORY SHOW 工厂展示





公司简介 COMPANY PROFILE

东盈环资

河南东盈环资科技有限公司简称“东盈环资”隶属于东盈控股旗下，是一家集产品咨询、研发设计、生产制造、设备安装、产品服务为一体的综合性环保设备制造公司。历经风雨数载，东盈环资积累了丰富的行业经验和国内外市场经验，面向未来，公司积极开拓创新，致力于智能化产品升级，打造民族品牌“走出去”的标杆企业。

公司产品种类多、型号齐全，产品构建以精工制造、智能智造为主，主要有固废、危废回收处理设备、裂解设备及相关环保处理净化设备。涵盖废轮胎裂解处理设备、废塑料裂解处理设备、油泥油土热解处理设备、综合危废热解处理设备、废机油废矿物油蒸馏精加工设备、生物质碳化设备，以及尾气净化、烟气脱硫净化处理等相关环保配套设备等。

公司拥有独立的技术研发团队，获得多项实用新型专利和发明专利；具备专业的生产制造能力和产品服务能力，可为客户提供个性化设备解决方案和产品全周期服务。公司也被授予“河南省创新型中小企业”“高新技术企业”荣誉称号，旗舰产品“连续式固废危废热裂解处理设备”成功入选《河南省工业领域节能、节水和固废综合利用技术装备目录（2024年版）》。此外，为更好服务于海外用户，公司还在尼日利亚分别设立分公司和海外仓，为海外客户仓库提货提供坚强保障。

公司始终秉承“开心、成长、拼搏”的企业精神，坚持“质量第一，诚信至上”的经营理念。秉承“We Are Doing”品牌文化，勇担社会责任，竭尽所能地为国家节能低碳、资源再生利用和改善人居环境贡献力量，做强“东盈（DOING）”品牌；继续围绕“生态、环保、发展主题”，坚定不移地走国际化道路，让产品和服务遍及全球，致力于打造国际领先的综合解决方案制造商”。

东盈环资，技术创新引领发展，东盈优品赋能行业。

DOING

Henan Doing Environmental Protection Technology Co., Ltd.(short for DOING), a subsidiary of DOING HOLDINGS, is a comprehensive environmental protection machinery manufacturing company dedicated to consulting, R&D, manufacturing, installation, and after-sales services.

Business Scope

DOING has diverse product lines, mainly including Solid Waste&Hazardous Waste Treatment Plant, Waste Tire/Waste Plastic/Oil Sludge Pyrolysis Plant, Pyrolysis Oi/Waste Oil/Used Oil Distillation Plant, Carbonization Plant, and related environmental protection equipment such as Exhaust Gas Puritication Equipment and Waste Gas Desulfurization Equipment, etc.

Our Services

DOING not only possesses an independent technology R&D team who have obtained a number of utility model patents and invention patents, but also has the professional manufacturing team and after-sales team to guarantee the product quality and user experience. Besides, we have the branch office and overseas warehouse in Nigeria, to provide customers convenience of picking up machines from warehouses directly.

Our company has been recognized with prestigious distinctions, including being certified as an Innovative SMEs in Henan Province and attaining the status of a High-tech Enterprise. Among our innovative products, the Continuous Pyrolysis Plant stands out as a cutting-edge solution. This advanced product has garnered commendation from government agencies and has been prominently featured in the 2024 Edition of the Catalogue of Henan Energy-saving, Water-saving, and Solid Waste Comprehensive Utilization Technologies and Equipment for the Industrial Sector.

Corporate Culture

Brand Idea: WE ARE DOING

Business Philosophy: Quality First, Credit Foremost

Corporate Culture: Enjoying, Growing up, Fighting

Quality Principle: Quality First, Customer First, Independent R&D, Technological Innovation Development

Theme: Ecology, Environmental Protection, People's Livelihood

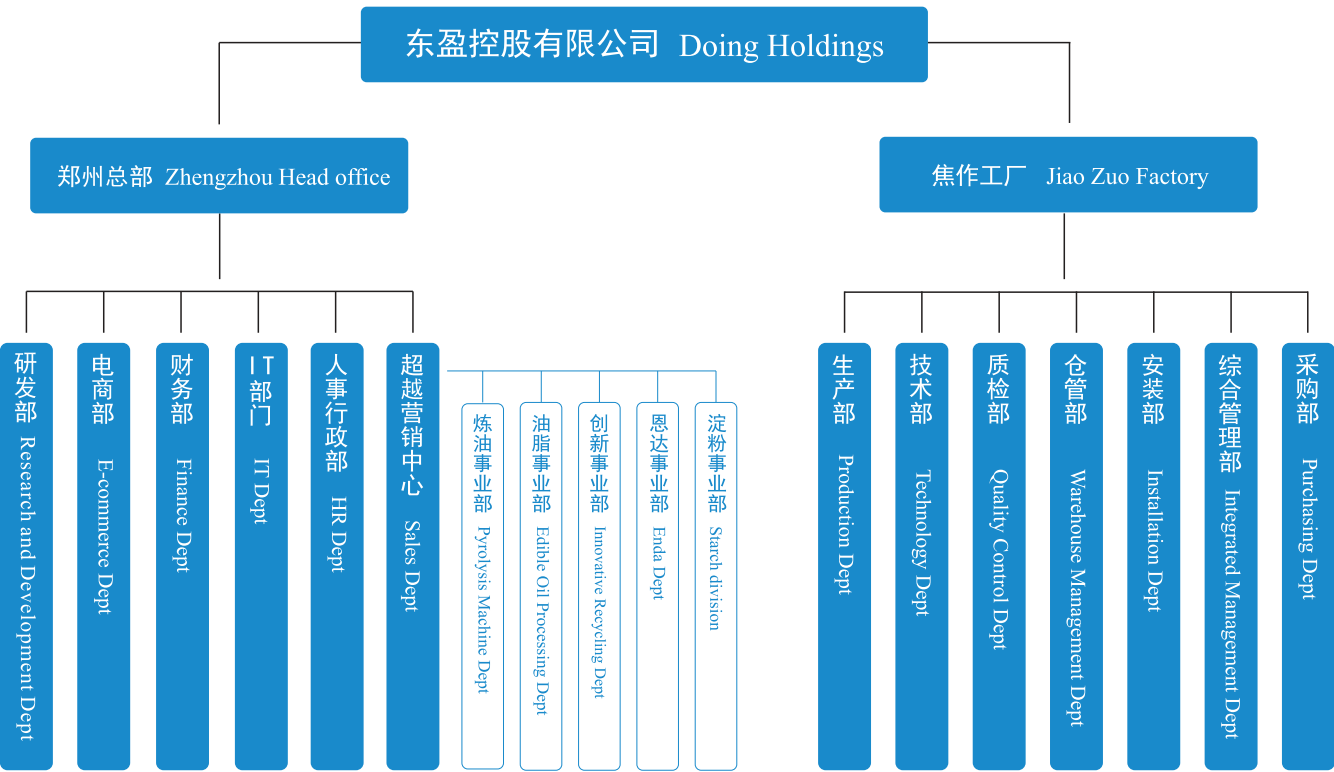
Enterprise Vision: Becoming a World-Leading&Recognizable Environmental Protection Machinery Manufacturer

DOING always adheres to our Corporate Value, Business Philosophy and Brand Idea, to be socially responsible by doing our best to contribute to the energy conservation and low carbon, resource recycling improvement of the living environment. Besides, we are making efforts to strengthen DOING BRAND, research and develop equipment technology, so as to make contributions to the global environmental protection machinery manufacturing industry.

Pioneer

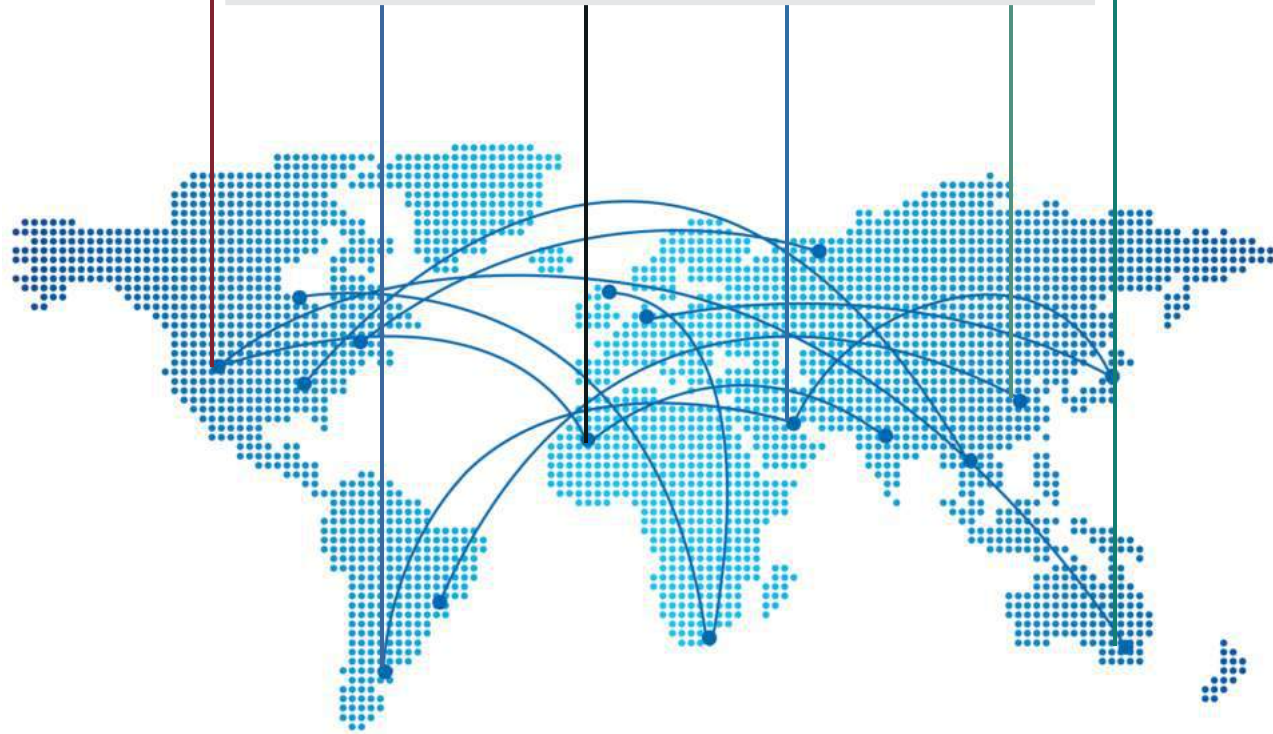
Pioneer of machine manufacturing industry, explorer of technological innovation. -- DOING

公司组织结构 COMPANY DEPARTMENT



业务范围 BUSINESS SCOPE

- ➡ 轮胎裂解设备
Waste tire pyrolysis plant
- ➡ 塑料裂解设备
Waste plastic pyrolysis plant
- ➡ 油泥裂解设备
Waste oil sludge pyrolysis plant
- ➡ 综合危废裂解设备
Hazardous waste pyrolysis plant
- ➡ 生物质碳化设备
Carbonization plant
- ➡ 废油/毛油精炼设备
Waste/crude oil distillation machine
- ➡ 配套辅助设备
Other auxiliary equipment





间歇式裂解设备简介

BATCH TYPE PYROLYSIS PLANT

裂解，或称热解、热裂解、低温裂解，指无氧气存在下，有机物质的高温分解反应，是能将一种样品（主要指高分子化合物）转变成另外几种物质（主要指低分子化合物）的分解过程。

例如将轮胎、塑料、铝塑、油泥、煤焦油渣、医疗垃圾、城市生活垃圾、综合危废等原料置于密闭无氧的反应釜内，通过高温加热裂解成油气、不可冷凝气体和炭黑的过程，如果原料是轮胎，还会得到钢丝。油气可以直接经过循环水冷却系统冷凝成油，用于工业燃油；不可冷凝的可燃性气体可以直接用于加热反应釜，多余尾气也可以收集储存用于其他工业加热；炭黑可以直接压球燃烧或者精制磨粉用作橡胶产品的添加剂；钢丝可以直接卖到废品回收站或者钢铁厂重新冶炼。

间歇式裂解设备由于需要不断停机投入处理原料及导出产出物，反复冷却再加热，平均22小时完成一个周期的炼油活动。

Pyro = heat, Lysis = break down. Pyrolysis is a organic materials thermo-cracking reaction without oxygen, which convert one type large molecules into many types smaller molecules.

Pyrolysis plant is a technology which feed waste materials like waste tires, plastic, oil sludge, aluminum plastic, medical waste, multiple solid waste, hazardous waste, etc. in a sealed reactor, convert into oil gas, carbon black, aluminum, charcoal, solid residue, steel wire(for tires) and uncondensable syngas, etc.The oil gas goes through water condensing system to be condensed into liquid oil, which is a good heating fuel used in industries. The uncondensable syngas usually recycled as heating fuel back to heat reactor. The extra syngas can be stored for other industries heating. Carbon black could be further processed into pellets or grinded into powder for further uses. Steel wire could be sold to steel factoris.

The whole process need about 22 hours per batch.



技术参数

TECHNICAL PARAMETER

机器类型 Machine type	间歇机器 Batch type									
可用原料 Inputs	废轮胎 Waste tire		废塑料 plastic			铝塑 aluminum plastic				
	油泥 oil sludge		医疗垃圾 medical waste			煤焦油渣 coal tar				
	城市生活垃圾等固废危废		multiple solid waste, hazardous waste, etc.							
最终产品 Outputs	燃料油 Fuel oil		炭黑 carbon black			钢丝 steel wire				
	铝 aluminum		煤 coal			可燃气体 syngas				
	渣土 solid residue		木炭 charcoal（具体看原料）(depends on the raw materials)							
型号 Model	DY-0.1 DY-10	DY-0.5 DY-12	DY-1 DY-15	DY-2 DY-18	DY-5 DY-20					
处理量 Capacity	100KG	500KG	1T/D	2T/D	5T/D	10T/D	12T/D	15T/D	18T/D	20T/D
厚度 Thickness	14毫米 14mm	16毫米 16mm	18毫米 18mm	20毫米 20mm	22毫米 22mm					
总功率 Total power	≤30千瓦/时 ≤30Kw			重量 Weight		15-35吨 15T-35T				
加热类型 Heating type	直接加热 Direct heating			所需工人 Required workers		2~3个工人 2~3 workers per shift				
加热燃料 Heating fuel	燃油 Fuel oil		燃气 Natural gas		煤炭 Coal		木头 Wood			
反应釜材质 Reactor material	Q345R / Q245R锅炉板 / 304 / 316 / 309S / 310S不锈钢 Q345R / Q245Rboiler plate / 304 / 316 / 309S / 310Sstainless plate									
冷却类型 Cooling type	循环水冷却 Circulating water cooling									
冷凝系统 Cooling system	列管式冷凝系统，水箱式冷凝系统 Tube condensing system/Water tank condensing system									
占地面积 Land occupy size	以10-15吨机器为例，300平方米（宽：7-10米，长：25-30米） Take 10T/D -15T/D machine as an example, it's about 300m2 (Width:7-10m, Length:25-30m)									
备注 Remarks	可定制大型生产设备：100吨/天，200吨/天，300吨/天 The bigger plant like 100T/D, 200T/D, 300T/D, could be customized according to order.									



利润分析 PROFIT ANALYSIS

利润分析（以10吨轮胎裂解设备为例）

运行成本/天	
废旧轮胎: 10吨*700元/吨 7000元	
水耗: 水是循环利用的, 几乎没有消耗	电耗: 20Kw/h=200元
燃油: 4吨*3000元/吨 12000元	工人: 3人*200元 600元
加热燃料 (选用其中一种燃料即可)	1) 煤: 0.4吨*800元/吨 320元 2) 燃油: 0.4吨*3000元/吨=1200元 3) 天然气: 350m3*2.8元/m3 980元
收益/天	
钢丝: 1.5吨*1500元 2250元	炭黑 3吨: (1) 直接卖 *300元/吨=900元 (2) 磨粉 *1200元/吨=3600元
利润/天(按照燃油和炭黑直接卖来算)	6150元/天

Profit analysis(Taking the 10T/D waste tire pyrolysis machine as example)(USD\$)

Running cost/Day	
Waste tires 10T*\$30/T=\$300	Power consumption 20Kw/h=\$30
Labor cost 3workers*\$50=\$150	Water consumption Water is circulated,almost no consumption
Heating fuel (just choose one of the options)	1)coal:0.4T*\$110/T \$44 2)Fire oil:0.4T*\$500/T \$200 3)LNG:350m³*\$0.4/m³ \$140
Income/Day	
Fire oil: 4T*\$500/T=\$2000	Steel wire: 1.5T*\$215=\$322.2
Carbon black	3T: (1)Direct sell*\$50/T=\$150 (2)Grinding *\$180/T \$540
Daily profit (Calculate according to directly sell tyre oil and carbon black)	\$1792.2/day

可处理原料及设备选型
RAW MATERIALS AND MACHINE MODELS

间歇式废轮胎裂解设备 Batch Type Waste Rubber Tire Pyrolysis Plant								
型号 Model	DY-0.1	DY-0.5	DY-1	DY-2	DY-5	DY-10	DY-12	DY-15
处理量 Capacity	100KG	500KG	1T/D	2T/D	5T/D	10T/D	12T/D	15T/D





间歇式废塑料裂解设备 Batch Type Waste Plastic Pyrolysis Plant										
型号 Model	DY-0.1	DY-0.5	DY-1	DY-2	DY-5	DY-10	DY-12	DY-15	DY-18	DY-20
处理量 Capacity	100KG	500KG	1T/D	2T/D	5T/D	10T/D	12T/D	15T/D	18T/D	20T/D



间歇式废油泥裂解设备 Batch Type Waste Oil Sludge Pyrolysis Plant								
型号 Model	DY-0.1	DY-0.5	DY-1	DY-2	DY-5	DY-10	DY-12	DY-15
处理量 Capacity	100KG	500KG	1T/D	2T/D	5T/D	10T/D	12T/D	15T/D





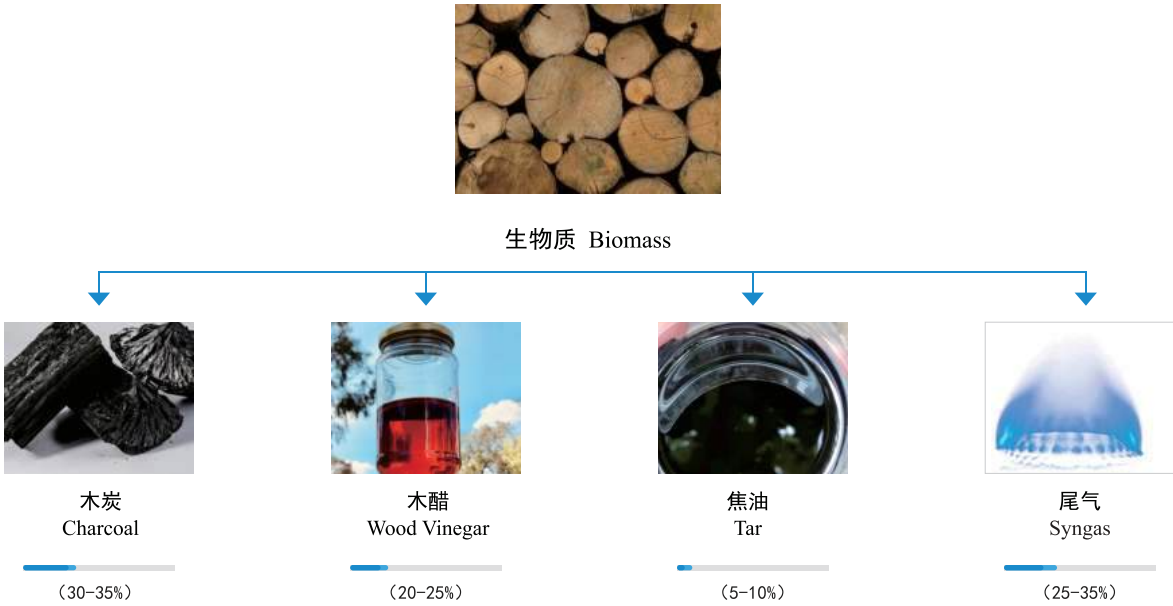
综合危废裂解设备 Batch Type Hazardous Waste Pyrolysis Plant	
型号 Model	DY-15
处理量 Capacity	15T/D



生物质碳化设备 Batch Type Carbonization Plant								
型号 Model	DY-0.1	DY-0.5	DY-1	DY-2	DY-5	DY-10	DY-12	DY-15
处理量 Capacity	100KG	500KG	1T/D	2T/D	5T/D	10T/D	12T/D	15T/D



根据原料决定出油量 Depends on raw materials



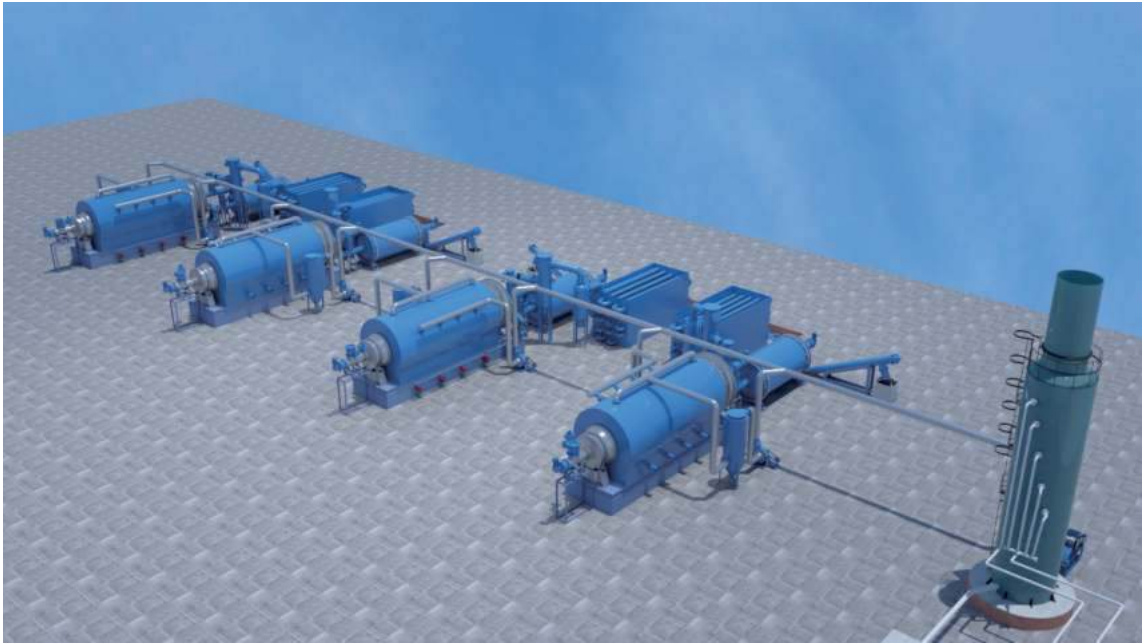


半连续式裂解设备
SEMI CONTINUOUS TYPE PYROLYSIS PLANT

半连续式裂解设备是结合连续式和间歇式裂解设备的工艺设计而成，其设备外形尺寸、处理量和间歇式基本一样，不同点在于进出料端的改进。进料端由小炉门改为螺旋蛟龙密封进料，要求原料需要提前进行预处理；出料端采用蛟龙螺旋出渣，无需打开炉门，也无需待炉子冷却，即可实现高温出渣，有效提高生产效率。

相较于间歇式裂解设备，半连续式设备有效节省了冷却时间，实现两天三炉的生产效率，且由于进出料端均采用密封进料技术，设备生产现场干净环保。

The semi-continuous pyrolysis plant is designed by combining the process of continuous and batch pyrolysis plant. Its equipment dimensions and processing capacity are basically the same as those of the batch type. The difference lies in the improvement of the feeding and discharging ways. The feeding way is changed from opening furnace door to screw conveyor sealed feeding way, which requires the raw materials to be pre-treated in advance; the discharging way adopts a screw conveyor discharge, which can achieve high-temperature slag discharge without opening the furnace door or waiting for the furnace to cool down, effectively improving production efficiency. Compared with batch pyrolysis plant, semi-continuous equipment effectively saves cooling time and achieves the production efficiency of three batches in two days. In addition, since the feeding and discharging ways use sealed feeding technology, which can keep the equipment production site clean and environmentally friendly.



技术参数 TECHNICAL PARAMETER

机器类型 Machine type	半连续机器 Semi-continuous type					
可用原料 Inputs	废轮胎 Waste tire	废塑料 plastic		油泥 oil sludge		
	医疗垃圾 medical waste	煤焦油渣 coal tar oil residue				
	城市生活垃圾等固废危废 multiple solid waste, hazardous waste, etc.					
最终产品 Outputs	燃料油 Fuel oil	炭黑 carbon black		钢丝 steel wire		
	煤 coal	尾气 syngas				
	渣土 solid residue	木炭 charcoal (具体看原料)(depends on the raw materials)				
型号 Model	DY-S-5	DY-S-10	DY-S-12	DY-S-15	DY-S-18	DY-S-20
处理量 Capacity	5T/D	10T/D	12T/D	15T/D	18T/D	20T/D
厚度 Thickness	14毫米 14mm	16毫米 16mm	18毫米 18mm	20毫米 20mm	22毫米 22mm	
总功率 Total power	<30千瓦/时 ≤30Kw			重量 Weight	15-35吨 15T-35T	
加热类型 Heating type	直接加热 Direct heating			所需工人 Required workers	2~3个工人 2~3 workers per shift	
加热燃料 Heating fuel	燃油 Fuel oil	燃气 Natural gas	煤炭 Coal	木头 Wood		
反应釜材质 Reactor material	Q345R / Q245R锅炉板 / 304 / 316 / 309S / 310S 不锈钢 Q345R / Q245R boiler plate / 304 / 316 / 309S / 310S stainless plate					
冷却类型 Cooling type	循环水冷却 Circulating water cooling					
冷凝系统 Cooling system	列管式冷凝系统，水箱式冷凝系统 Shell tube condensation system/Water tank condensation system					
占地面积 Land occupy size	以10-15吨机器为例，300平方米（宽：7-10米，长：25-30米） Take 10T/D -15T/D machine as an example, it's about 300m2 (Width:7-10m, Length:25-30m)					

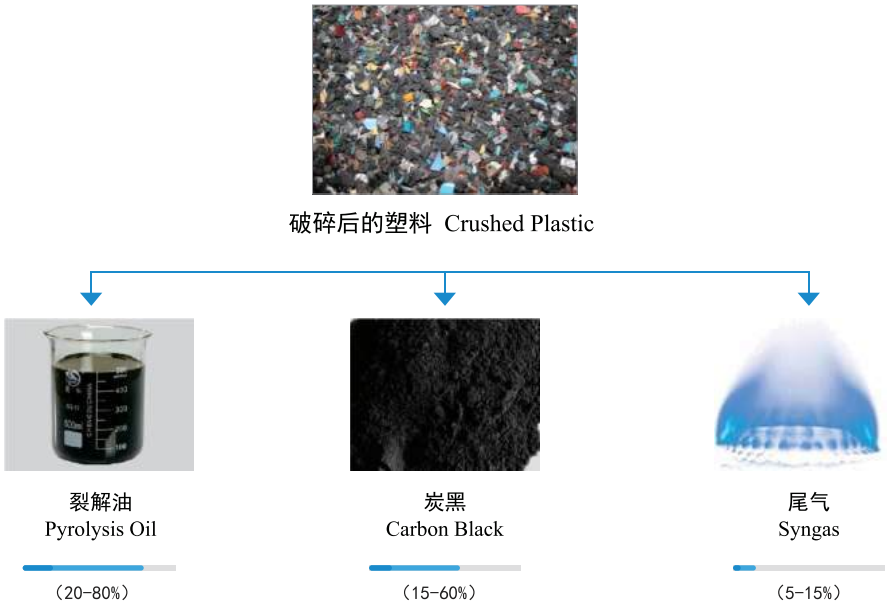


可处理原料及设备选型
RAW MATERIALS AND MACHINE MODELS

半连续式废轮胎裂解设备 Semi-continuous Type Waste Tire Pyrolysis Plant						
型号 Model	DY-S-5	DY-S-10	DY-S-12	DY-S-15	DY-S-18	DY-S-20
处理量 Capacity	5T/D	10T/D	12T/D	15T/D	18T/D	20T/D

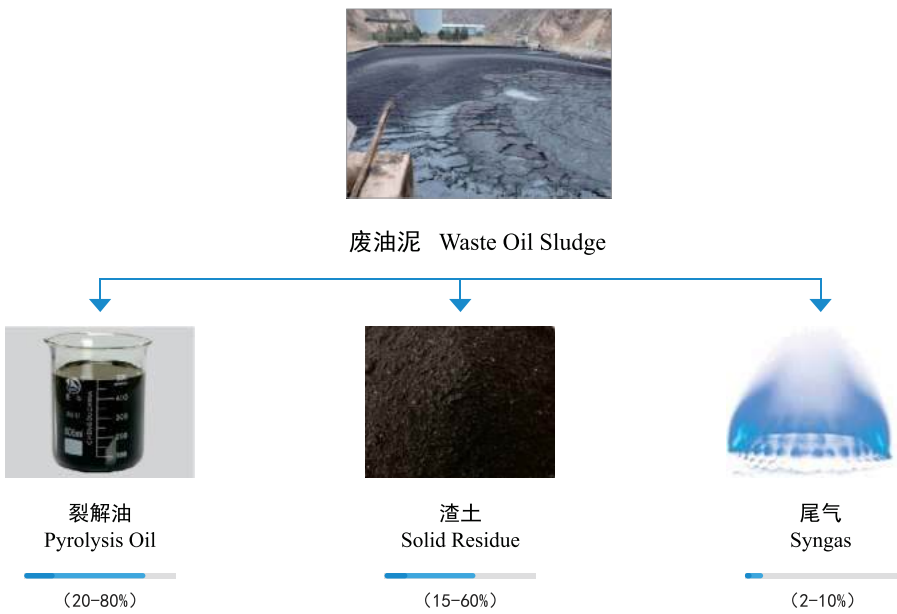


半连续式废塑料裂解设备 Semi-continuous Type Waste Plastic Pyrolysis Plant						
型号 Model	DY-S-5	DY-S-10	DY-S-12	DY-S-15	DY-S-18	DY-S-20
处理量 Capacity	5T/D	10T/D	12T/D	15T/D	18T/D	20T/D

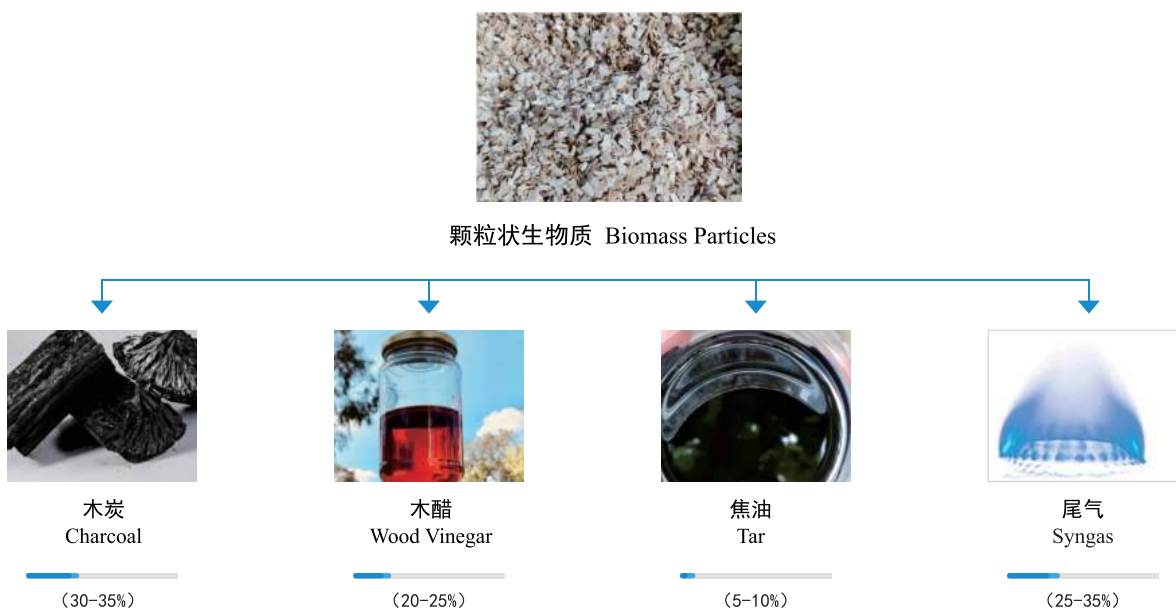




半连续式油泥裂解设备 Semi-continuous Type Oil Sludge Pyrolysis Plant	
型号 Model	DY-S-15
处理量 Capacity	15T/D



半连续式生物质碳化设备 Semi-continuous Type Carbonization Plant				
型号 Model	DY-S-5	DY-S-10	DY-S-12	DY-S-15
处理量 Capacity	5T/D	10T/D	12T/D	15T/D





自动化全连续式裂解设备

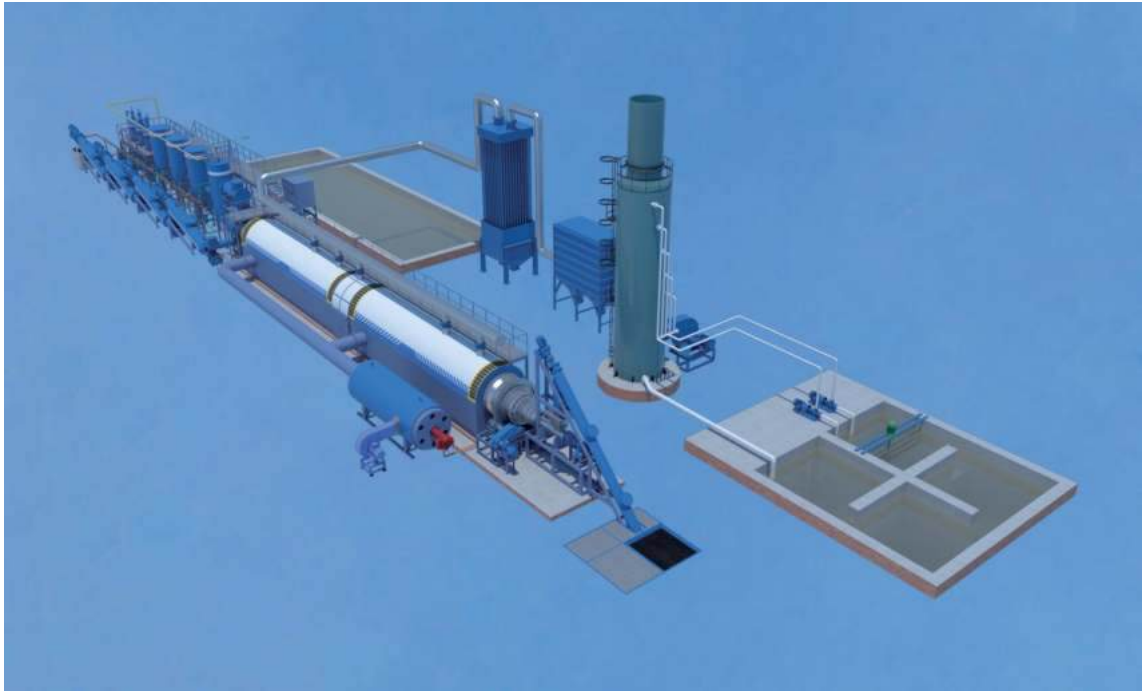
FULLY AUTOMATIC CONTINUOUS PYROLYSIS PLANT

自动化全连续式裂解设备是一种新型炼油设备，可选用PLC操控系统，自动化程度高，可以连续进料，连续出油，连续排渣，无需停顿冷却再排渣，24小时不间断运行，从而形成一个可连续操作的炼油生产线。

相对于间歇式设备，自动化全连续式裂解设备整个生产线运行呈连续状态，不受储料仓空间限制，不需要频繁停机、开闭装备、冷却后重新加热等操作，可连续不间断运行30-40天左右，大大提高了生产效率，同时降低了人工成本，在安全、环保、节能、高效等方面有明显优势。

The fully automatic continuous pyrolysis plant is a new type of waste to fuel oil processing equipment, which is fully automatic and could be controlled by PLC system (customization). The main advantage is continuous feeding and continuous discharging, no need to stop the machine and wait for it to be cooled down for discharging carbon black every day.

It runs for 24 hours and can run continuously for about 30-40 days, greatly improving production efficiency and reducing labor cost. DOING fully automatic continuous pyrolysis plant has obvious advantages in safety, environmental protection, energy saving, and high efficiency.



技术参数

TECHNICAL PARAMETER

机器类型 Machine type	连续机器 Continuous type			
可用原料 Inputs	废轮胎 Waste tire 废塑料 plastic 医疗垃圾 medical waste 城市生活垃圾、生物质等固废危废 multiple solid waste, biomass, etc.			
最终产品 Outputs	燃料油 Fuel oil 炭黑 carbon black 钢丝 steel wire 可燃气体 syngas 木炭 charcoal (具体看原料)(depends on the raw materials)			
型号 Model	DY-C-15	DY-C-20	DY-C-30	DY-C-40 DY-C-50
处理量 Capacity	15T/D	20T/D	30T/D	40T/D 50T/D
厚度 Thickness	14毫米 14mm	16毫米 16mm	18毫米 18mm	20毫米 20mm
加热类型 Heating type	间接加热 Indirect heating		所需工人 Required workers	1~2个工人 1~2 workers per shift
加热燃料 Heating fuel	燃油 Fuel oil	燃气 Natural gas	煤炭 Coal	木头 Wood
反应釜材质 Reactor material	Q345R (304/316/309/310不锈钢材质可定制) Q345R (304ss/316ss/309ss/310ss material could be customized)			
冷却类型 Cooling type	循环水冷却 Circulating water cooling			
冷凝系统 Cooling system	列管式冷凝系统 Shell tube condensation system			
占地面积 Land occupy size	以50吨机器为例，700平方米 （宽10米，长70米） Take 50T/D machine as an example, it's about700m2 (Width: 10m, length70m)			

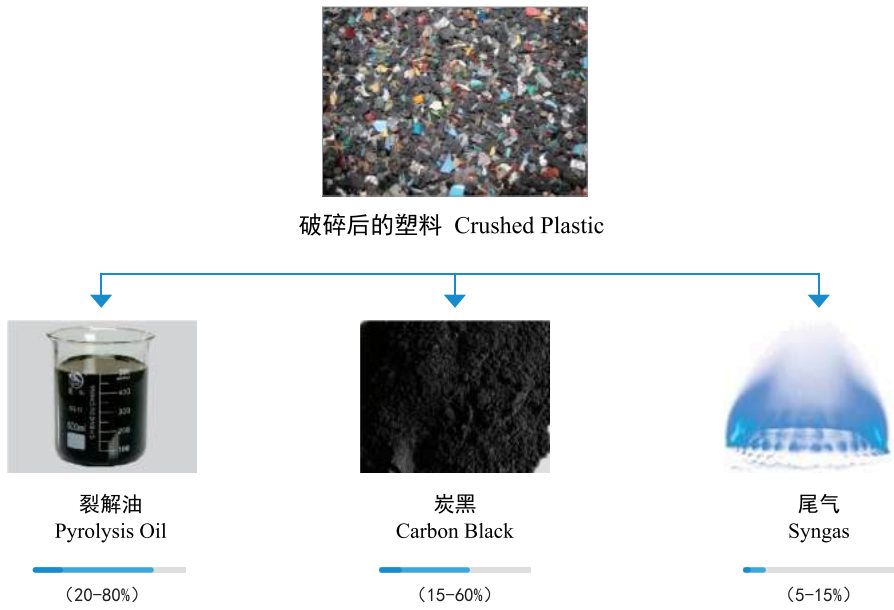


可处理原料及设备选型
RAW MATERIALS AND MACHINE MODELS

全连续式废轮胎裂解设备 Fully Continuous Type Waste Tire Pyrolysis Plant					
型号 Model	DY-C-15	DY-C-20	DY-C-30	DY-C-40	DY-C-50
处理量 Capacity	15T/D	20T/D	30T/D	40T/D	50T/D



全连续式废塑料裂解设备 Fully Continuous Type Waste Plastic Pyrolysis Plant					
型号 Model	DY-C-15	DY-C-20	DY-C-30	DY-C-40	DY-C-50
处理量 Capacity	15T/D	20T/D	30T/D	40T/D	50T/D





柴油分离设备 Waste Plastic To Diesel And Gasoline Integrated Machine						
型号 Model	DY-Q-1.5	DY-Q-2.5	DY-Q-5	DY-Q-10	DY-Q-15	DY-Q-20
处理量 Capacity	1.5T/D	2.5T/D	5T/D	10T/D	15T/D	20T/D



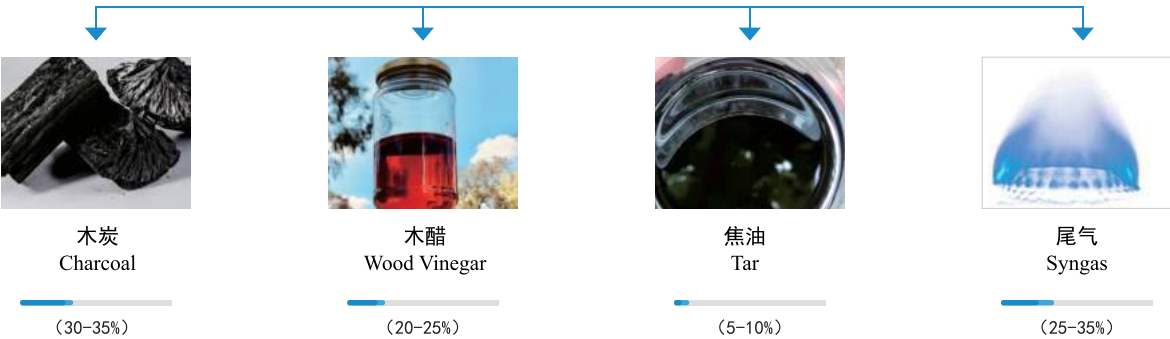
破碎后的塑料 Crushed Plastic



生物质碳化设备 Fully Continuous Type Carbonization Plant			
型号 Model	DY-T-1	DY-T-2	DY-T-3
处理量 Capacity	1T/H	2T/H	3T/H

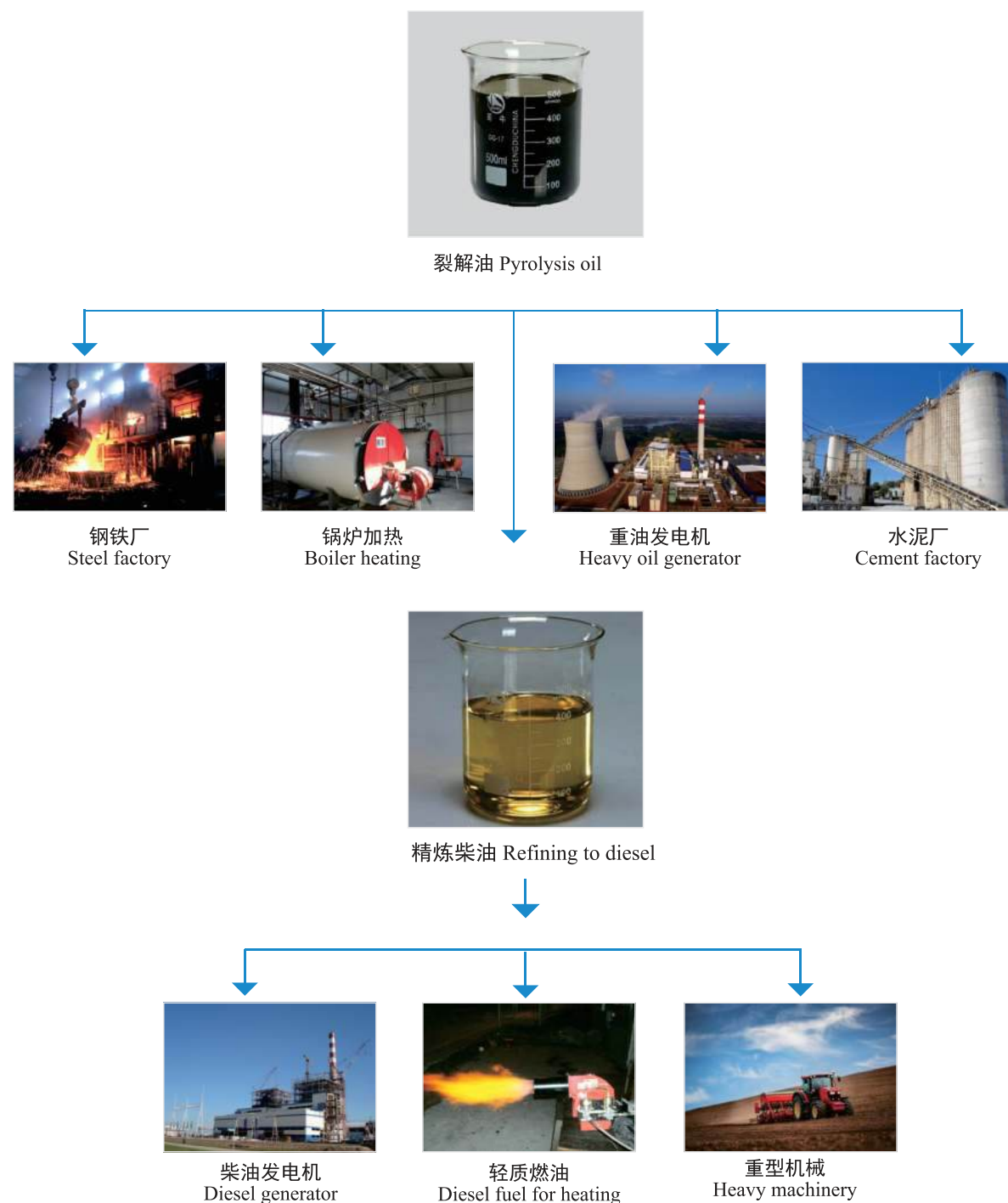


颗粒状生物质 Biomass Particles

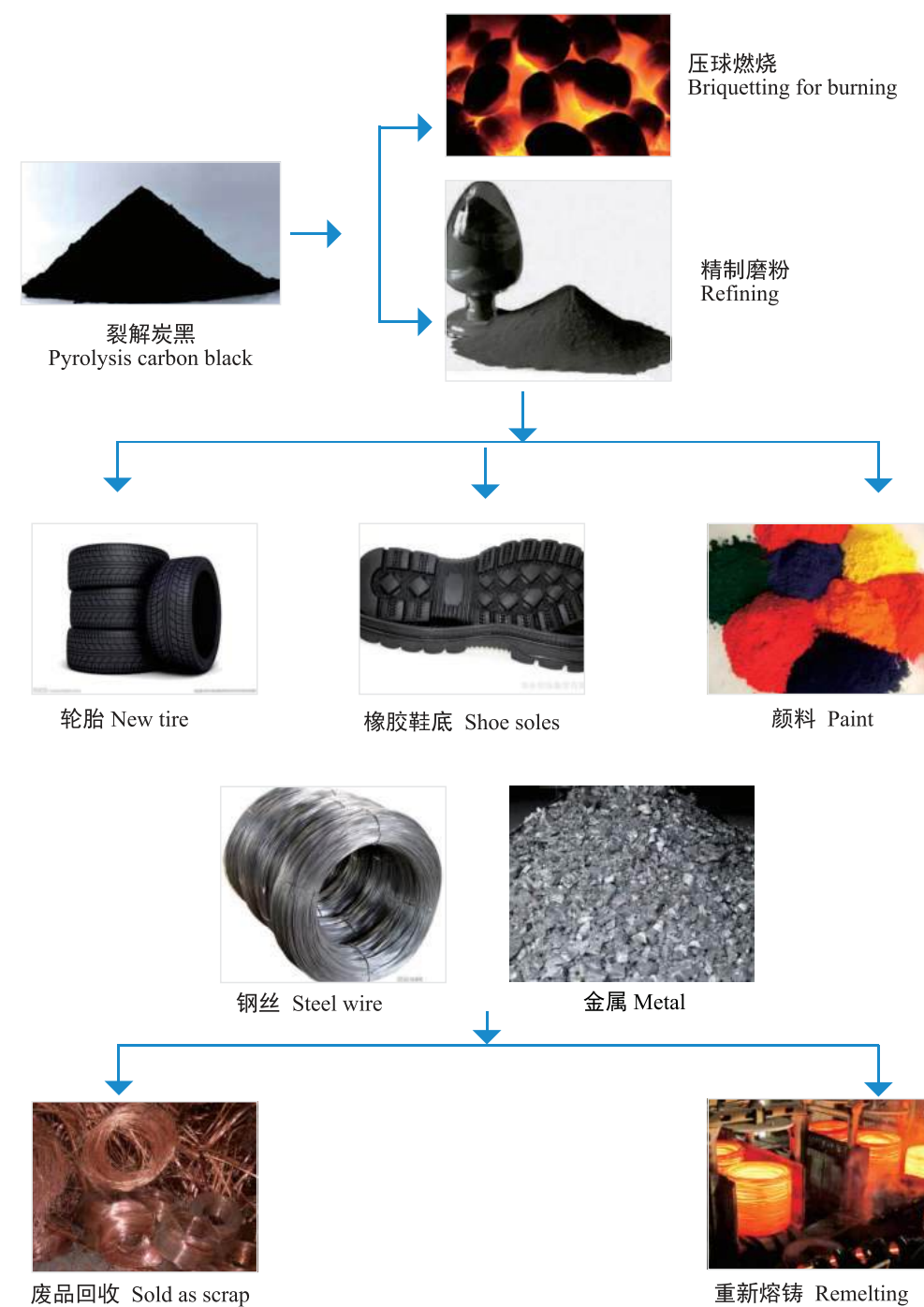




裂解油用途 PYROLYSIS OIL APPLICATION

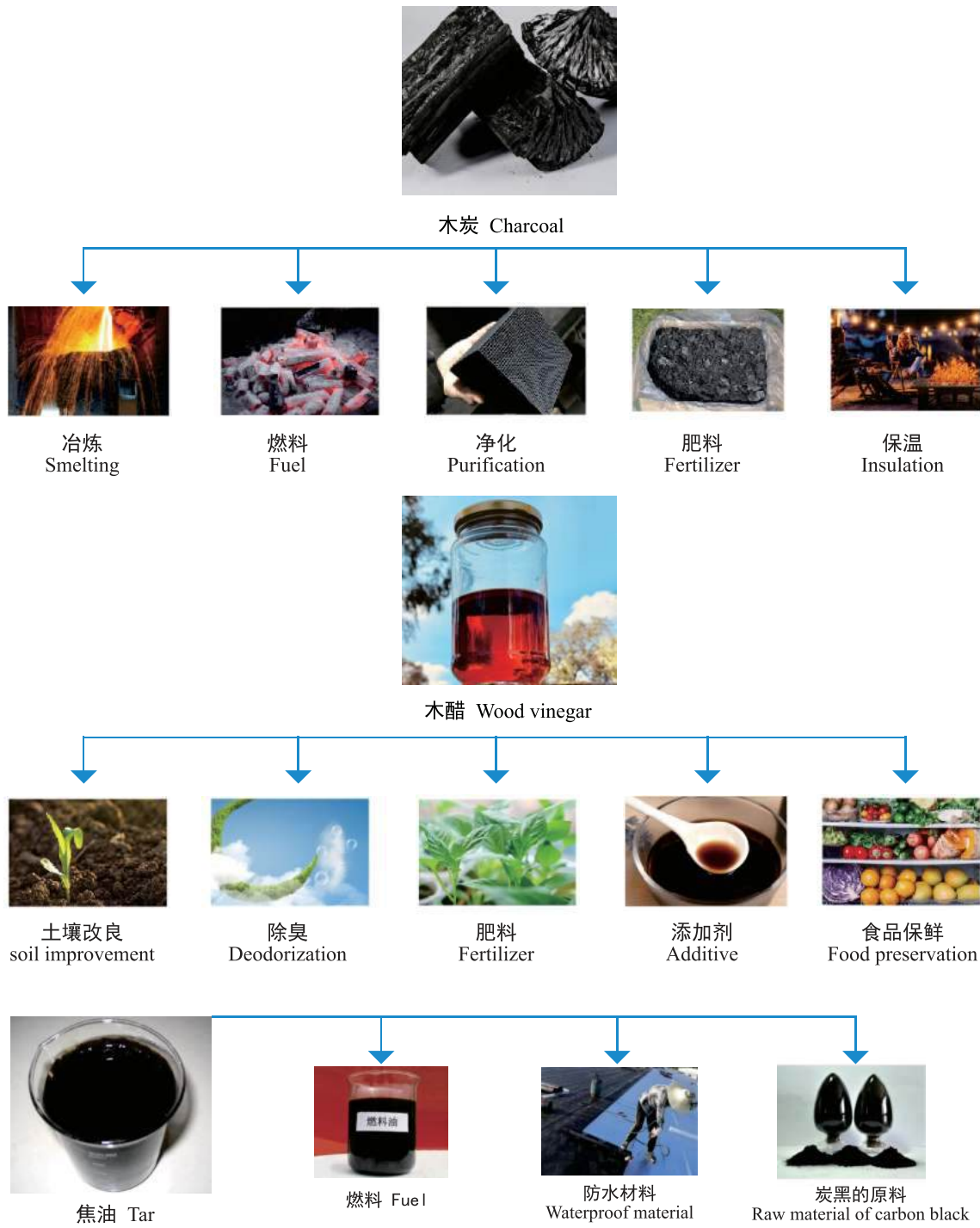


炭黑、钢丝用途 CARBON BLACK&STEEL WIRE APPLICATION





木炭/木醋/焦油用途
CHARCOAL/ WOODVINEGAR / TAR/ APPLICATION



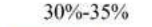
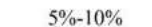
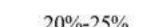
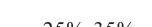
不同原料出油率
OIL YIELD OF DIFFERENT INPUTS

原料 Raw material			出油率 Oil yield
通用橡胶 GeneralRubber			
大汽车Big car tires、卡车轮胎truck tires 工程胎OTR tires			45%-52%
小汽车Small car tires、摩托车motorcycle tires 自行车轮胎bicycle tires			35%-40%
橡胶电缆皮Rubber cable sheath、鞋底rubber soles			35%
各种橡胶垫All kinds of rubber sheets or carpets			30%
橡胶杂料Unclassified rubbers			35%
通用塑料 General Plastics			
纯净PE / PP / PS塑料 Pure PE / PP / PS plastics			90%-95%
纯净ABS塑料Pure ABS plastics			40%
纯净白塑料布Pure white plastic sheets			70%
食品包装袋Food packaging bag			40%
造纸厂下脚料Paper-mill waste			干 Dry 60% 湿 Wet 15%-20%
塑料生活垃圾 Plastic household garbage			30%-50%
纯塑料电缆皮 Pure plastic cable sheath			80%
铝塑 Aluminum plastic			50%
PVC/PET			Not suitable/不适合炼油



不同原料出油率

OIL YIELD OF DIFFERENT INPUTS

原料 Raw material		出油率 Oil yield	
油泥 Oil sludge			
油泥 Oil sludge	 		15%-70%
煤焦油渣 Coal tar oil residue	 		20%-50%
油沙 Oil sands	 		20%-50%
生物质 Biomass			
椰壳Coconut shell	 	炭Charcoal	 30%-35%
玉米芯Corn cob	 	焦油Tar	 5%-10%
锯末Sawdust	 	木醋Wood vinegar	 20%-25%
原木 Wood	 	尾气Waste gas	 25%-35%
稻壳 Rice husk	 	水分 Moisture content	 15-20%
秸秆 Straw	 	具体产物比例看原料 Depends on raw materials	
棕榈壳Palm shell	 		
竹子Bamboo	 		

废油/毛油精炼设备

WASTE/CRUDE OIL DISTILLATION MACHINE

废油/毛油精炼设备是专为精炼轮胎塑料裂解油、废机油和各种工业废油而设计，精炼流程包括蒸馏除杂、冷却成轻油、再脱色除味，最终可以将裂解油、废机油和工业废油精炼成干净、色泽明亮的非标柴油。该柴油可以代替标准柴油用于柴油燃烧机，发电机和重型机械以及农用机械里。一般柴油得率在80-85%左右。蒸馏过后的炉内残留物质为重油杂质，与沥青性能极为相似，可以直接用于铺路或者卖到沥青厂再精炼。

东盈废油/毛油精炼设备主要有两种工艺设备，一种是老式酸碱洗精制工艺和新式固体催化剂蒸馏工艺，规格型号齐全，可实现污染油、废油的绿色化和资源化回收利用。

DOING oil distillation machine is specially designed for refining black oil, heavy tire/plastic pyrolysis oil, and various industrial waste oils into light diesel. This whole refining process includes distillation, cooling, decoloring and deodorizing system. The final diesel product could be used as alternative fuel in diesel burners, generators, heavy machinery and agricultural machinery, etc. Generally, the diesel yield is about 80%-85%. The residual material in the furnace after distillation is heavy oil impurities, which are very similar to asphalt performance. They can be directly used for paving or sold to asphalt plants for further refining.

DOING waste/crude oil distillation machine mainly has two types of process design, one is the acid-alkali refining process and the other is the new catalytic distillation process. With complete specifications and models, our oil distillation machine can realize the green and resource recycling of waste oils.

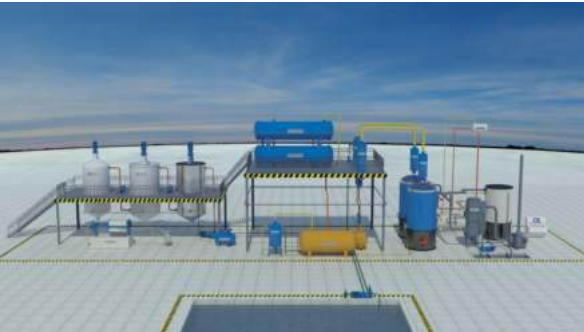
新式精炼设备

New Design Waste Oil Distillation Plant



老式精炼设备

Normal Design Waste Oil Distillation Plant





技术参数 TECHNICALPARAMETER

机器类型 Machine type	半连续机器 Semi-continuous type			
可用原料 Inputs	轮胎/塑料裂解油 Tire/Plastic pyrolysis oil 废机油等各种工业废油 waste engine oil, etc.			
最终产品 Outputs	柴油 Diesel 沥青 asphalt			
型号 Model	DY-D-0.1 DY-D-5	DY-D-0.5 DY-D-7	DY-D-1 DY-D-10	DY-D-3 DY-D-14
处理量 Capacity	100KG/D 5T/D	500KG/D 7T/D	1T/D 10T/D	3T/D 14T/D
厚度 Thickness	12毫米 12mm 14毫米 14mm 16毫米 16mm			
加热类型 Heating type	直接加热，可选快速加热系统 Direct heating,with fast heating system as an option			
所需工人 Required workers	每班2个工人 2 workers per shift			
排渣方式 Slagging type	自动排渣 Automatic slagging			
加热燃料 Heating fuel	燃油 Fuel oil 燃气 Natural gas 煤炭 Coal 木头 Wood			
反应釜材质 Reactor material	Q345R / Q245R锅炉板 / 304 / 316 / 310S不锈钢 Q345R / Q245Rboiler plate / 304 / 316 / 310S Stainless plate			
冷却类型 Cooling type	循环水冷却 Circulating water cooling			
占地面积 Land occupy size	以10吨机器为例， 200-300平方米（宽：10-15米，长：20-25米） Take 10T/D machine as an example, it's about200-300m2 (Width: 10-15m, Length: 20-25m)			

柴油/沥青用途
DIESEL /ASPHALT APPLICATION





精炼备选系统 OPTIONAL SYSTEM FOR DISTILLATION MACHINE

快速加热系统 FAST HEATING SYSTEM

精炼设备采用双加热通道，利用热介质循环来加热的快速加热系统和常规的燃料加热系统，一方面可以节省燃料，另一方面可以加快蒸馏速度。

The oil distillation machine adopts double heating ways, one is through fast heating system using circulating heating medium and the other one is the normal fuel heating system. This way, it not only could save heating fuel, also could speed up the distillation process, thus to save time.

柴油净化系统 DIESEL FURTHER PURIFICATION SYSTEM

经过标配精炼系统炼出来的柴油是棕黄色的，如果想得到色泽更好的柴油，我们也可以提供深层净化系统，最终可以得到淡黄色的柴油产品。

The color of the diesel directly produced from the standard equipped distillation system is brown yellow. The purification system could further purify and bleach the diesel, thus to get much lighter color.



辅助设备 AUXILIARY EQUIPMENT

PLC智能化控制系统 PLC INTELLIGENT CONTROL SYSTEM

PLC智能化控制系统利用可编程逻辑控制器实现高效、灵活且自动化的精准控制过程，具有功能强大、性价比高、硬件设施齐全、用户方便、适应性强、可靠性高等特点。PLC结合了电气系统、控制系统、检测系统和软件操作系统，能够自动控制和监控整个工厂的机械和电气系统，让智慧化生产贯穿到企业生产的每一个环节，以便提高生产效率和自动化水平。

PLC intelligent control system uses programmable logic controllers to achieve efficient, flexible, automated and precise control processes, and has the characteristics of powerful functions, high cost performance, complete hardware facilities, user convenience, strong adaptability and high reliability. PLC combines electrical systems, control systems, detection systems and software operating systems, and can automatically control and monitor the mechanical and electrical systems of the entire factory. It allows intelligent production to run through every link of enterprise production in order to improve production efficiency and automation level.





炭黑深加工 CARBON BLACK FURTHER PROCESSING

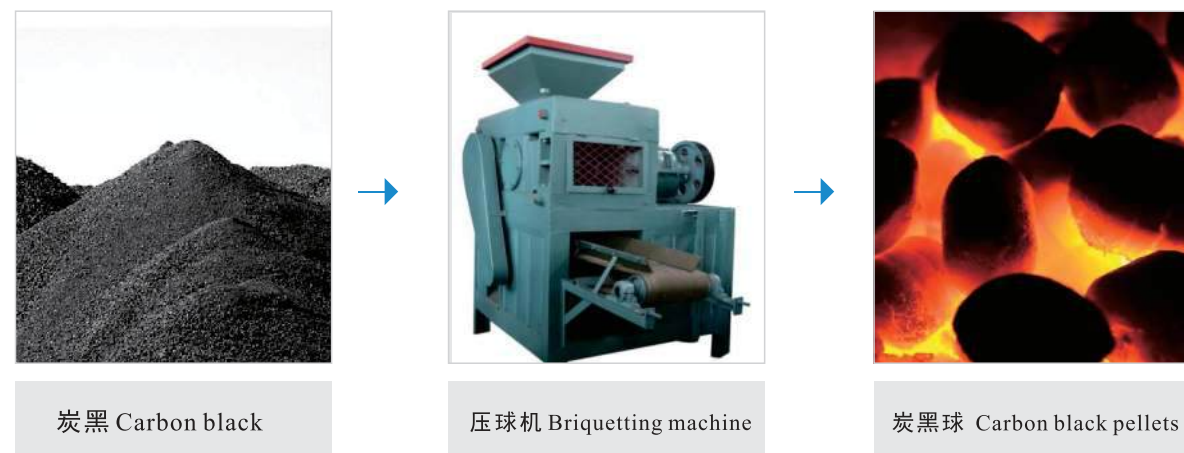
炭黑作为轮胎裂解的第二大产物也有着非常高的工业利用价值。轮胎裂解产生的炭黑可以直接销往市场，也可以选择售前深加工。目前国内比较常见的炭黑深加工方法主要有两种，一种是炭黑压球，另外一种则是炭黑磨粉。

Carbon black as the second main product of tire/plastic pyrolysis also has a very high industrial value. The carbon black produced by the pyrolysis process could be directly sold to the market, also could be further processed before selling. At present, there are mainly two further processing ways for carbon black. One is briquetting, the other one is grinding.

• 压球 BRIQUETTING

经过检测得知裂解炭黑的燃烧值可以达到7000Kcal/kg，跟煤的燃烧值差不多，所以把裂解炭黑压成球之后，完全可以代替煤炭用于工业加热中。这样，一方面可以提升裂解炭黑的使用价值，另一方面也可以降低燃料的使用成本。

After testing, the combustion value of the pyrolysis carbon black could reach to 7000Kcal/kg, which is almost equal to coal and charcoal, then after briquetting the carbon black into pellets, it could be directly used for industrial heating instead of coal. This way, it could promote the use value of the carbon black, also could reduce the use cost of the heating fuel.



炭黑深加工 CARBON BLACK FURTHER PROCESSING

• 磨粉 GRINDING

轮胎塑料裂解产生的炭黑，因其原料和裂解处理工艺的特殊，其粒子较粗，灰分含量较高，表面含油质成分较多，其理化性能与我们常用的半补强炭黑极其相似。基于这项优势，我们可以对裂解炭黑进行一些精细磨粉处理，做成N550, N660, N774等半补强炭黑，用于多种橡胶产品的生产制造中。炭黑精细磨粉可以在密闭的处理系统中完成，避免了任何二次污染的可能，同时大幅提升最终产品的附加值，利润更高，成品炭黑的售价均在2000-3000元/吨左右。

Due to the special raw material and production process, the pyrolysis carbon black is also different from the normal carbon black. The pyrolysis carbon black is crude, and the ash content is high, but has more oily materials on surface, which makes physical and chemical property very similar to used semi-reinforced carbon black. Based on this advantage, we could make further refining for the pyrolysis carbon black to get N550, N660, N774 and other semi-reinforced carbon black, which could be used for making many kinds of rubber products. In addition, the carbon black grinding process could be made in sealed system, which could avoid secondary pollution to the air, and promote the use value of the carbon black. The pyrolysis carbon black after refining could be sold as ¥2000-3000 per ton, which could bring much higher profit to the user.

炭黑精制 CARBON BLACK REFINING





其他辅助设备 OTHER AUXILIARY EQUIPMENT

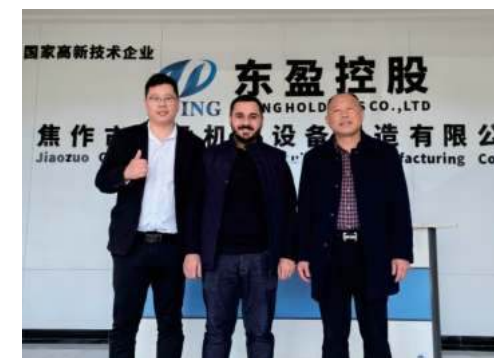


- 1: 拉丝机 Steel wire drawing machine
- 2: 轮胎破碎机 Waste tyre shredder
- 3: 塑料破碎机 Plastic crusher
- 4: 轮胎/塑料打包机 Waste tyre/plastic baler
- 5: 自动进料机 Auto-feeder
- 6: 钢丝打包机 Steel wire packing machine
- 7: 轮胎套胎机 waste tyre doubling/packing machine
- 8: 轮胎双面切圈机 Both-side tire steel wire circle cutter
- 9: 轮胎单面切圈机 Single-side tire steel wire circle cutter
- 10: 轮胎切断机 Tire cut-off machine
- 11: 胶粉设备 Rubber powder processing machine



客户来访

CUSTOMER VISIT



客户来访

CUSTOMER VISIT



设备发货

MACHINE DELIVERY

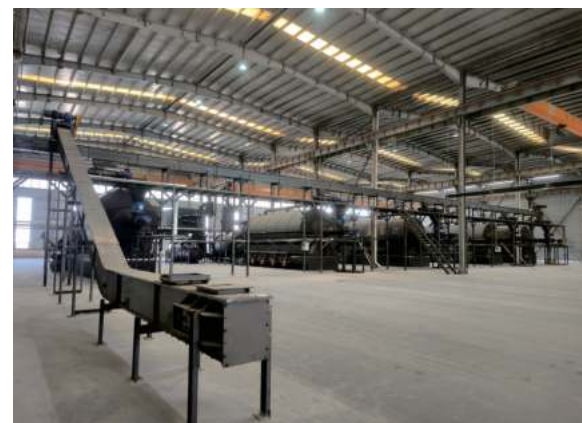


设备发货

MACHINE DELIVERY



陕西 Shaanxi



甘肃 Gansu



辽宁 Liaoning



云南 Yunnan

项目现场
PROJECT CASE



安徽 An hui

项目现场 PROJECT CASE



辽宁 Liaoning



陕西 Shaanxi



天津 Tianjin



广西 Guangxi



河南 Hennan



项目现场

PROJECT CASE

湖南 Hu nan

河南 He nan

山西 Shan xi

陕西 Shaanxi

福建 Fu jian

云南 Yun nan

重庆 Chongqing

湖北 Hubei

项目现场 PROJECT CASE

美国 America

法国 France

哈萨克斯坦 Kazakhstan

南非 South Africa

墨西哥 Mexico

巴西 Brazil



项目现场

PROJECT CASE



📍 智利 Chile



📍 印度尼西亚 Indonesia



📍 尼日利亚 Nigeria



📍 菲律宾 The Philippines



📍 巴西 Brazil



📍 越南 Vietnam



📍 墨西哥 Mexico

项目现场 PROJECT CASE



📍 格鲁吉亚 Georgia



📍 哥伦比亚 Columbia



📍 马来西亚 Malaysia



📍 多哥 Togo



📍 俄罗斯 Russia



📍 日本 Japan



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