

# Waste Plastic Pyrolysis

## BLJ-16 Batch Plant Brochure

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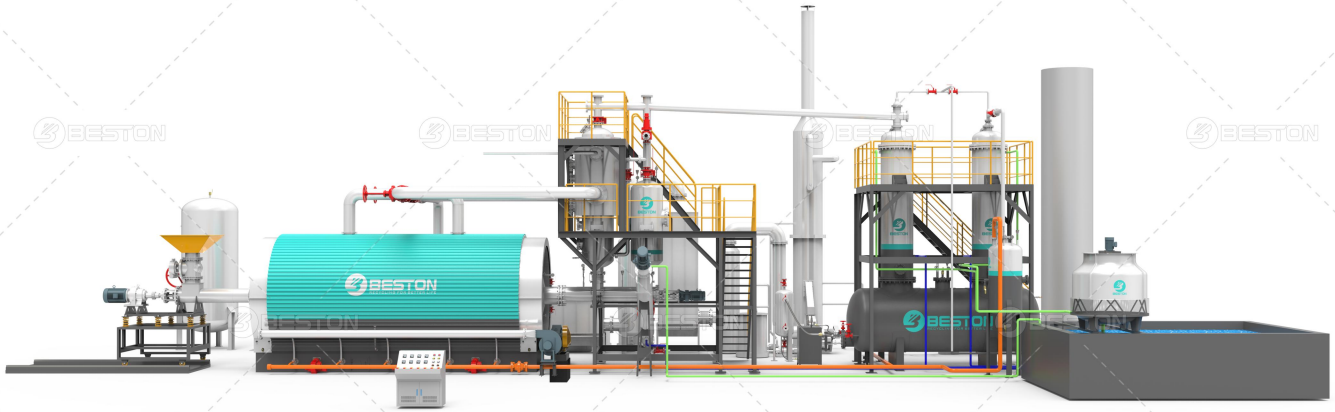


# 3D Image



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\* 该图仅为示意效果图，部分产品及配置情况请以最终设计或实物为准。  
\* This drawing is only a schematic effect drawing. Some products and configuration should be based on the final design or physical object.



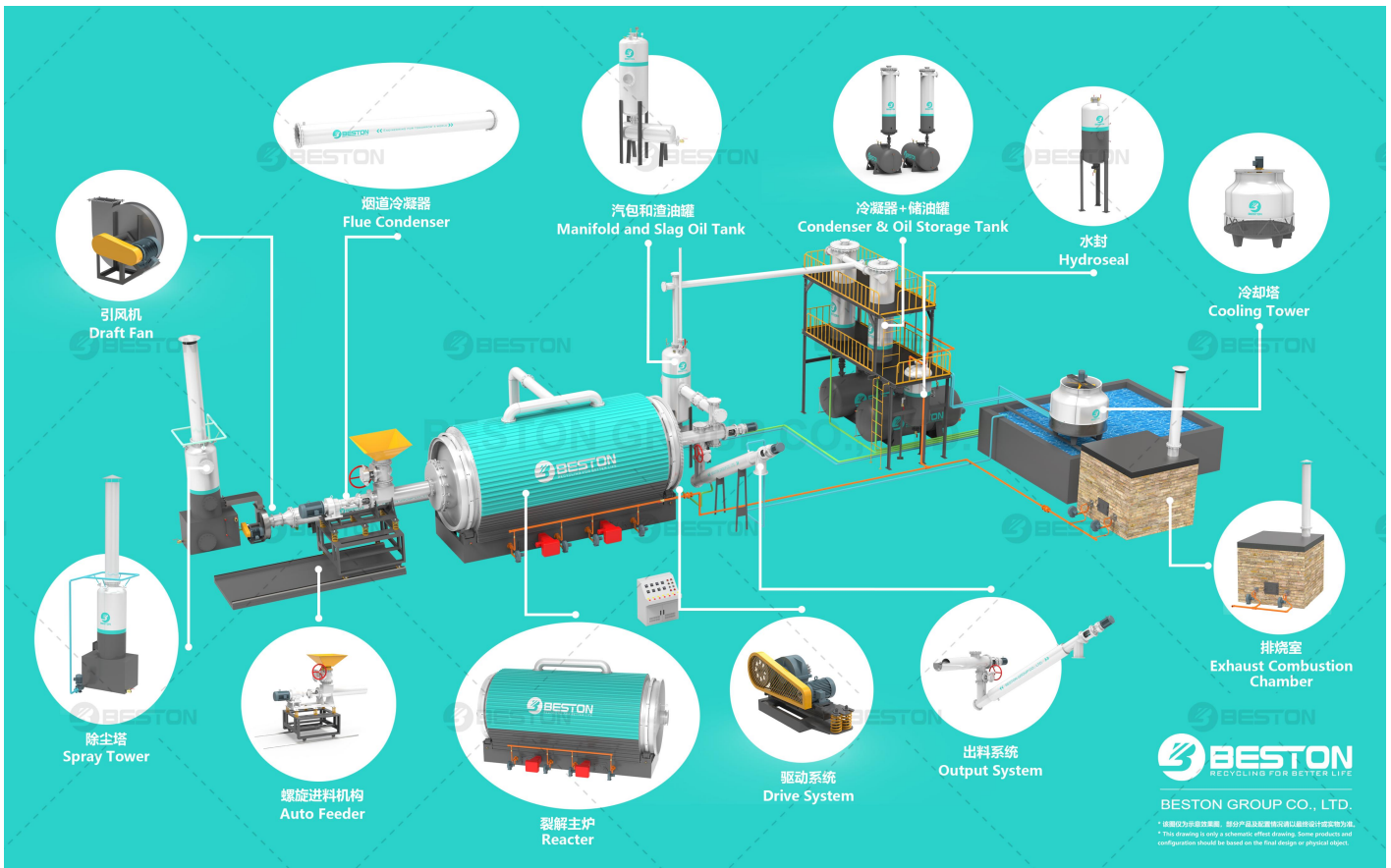
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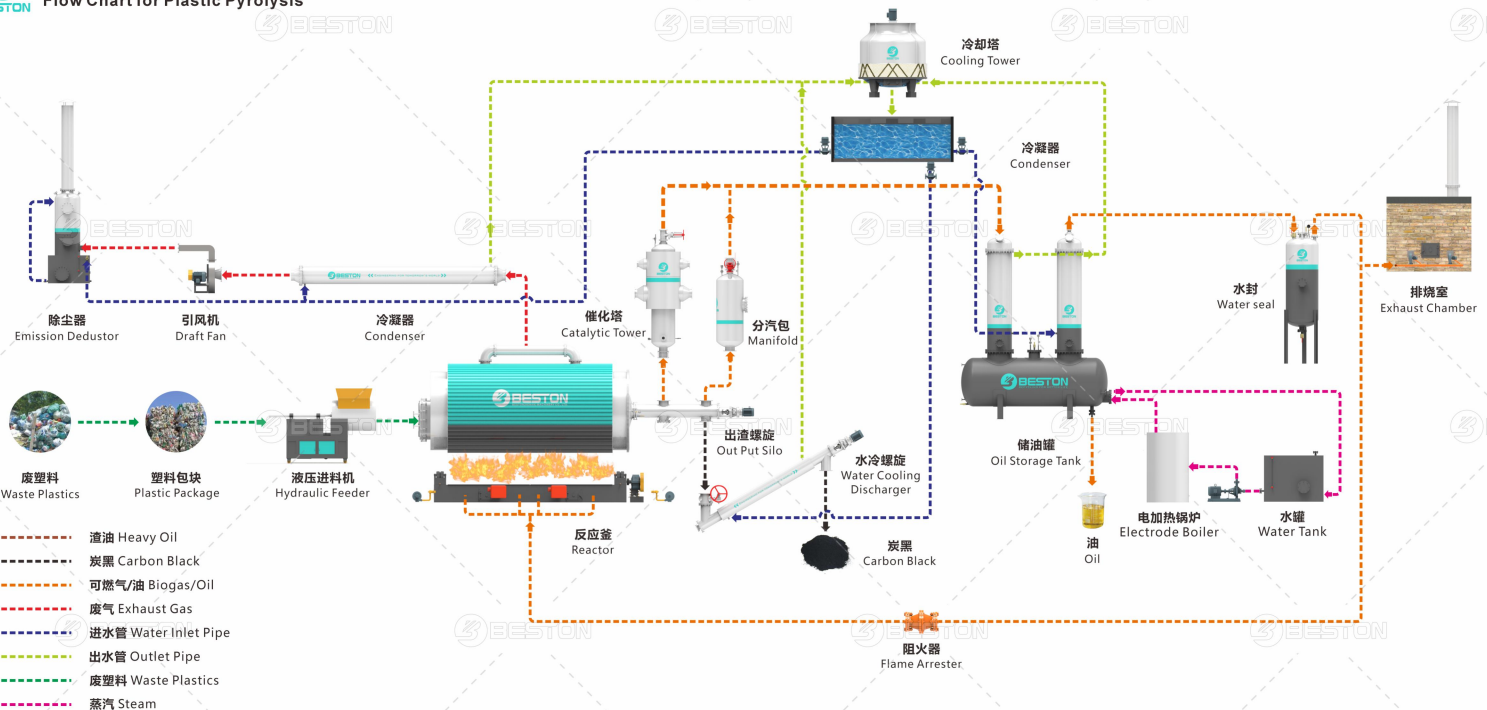


## BLJ-16 BATCH PYROLYSIS PLANT

# 3D Layout & Work Flow



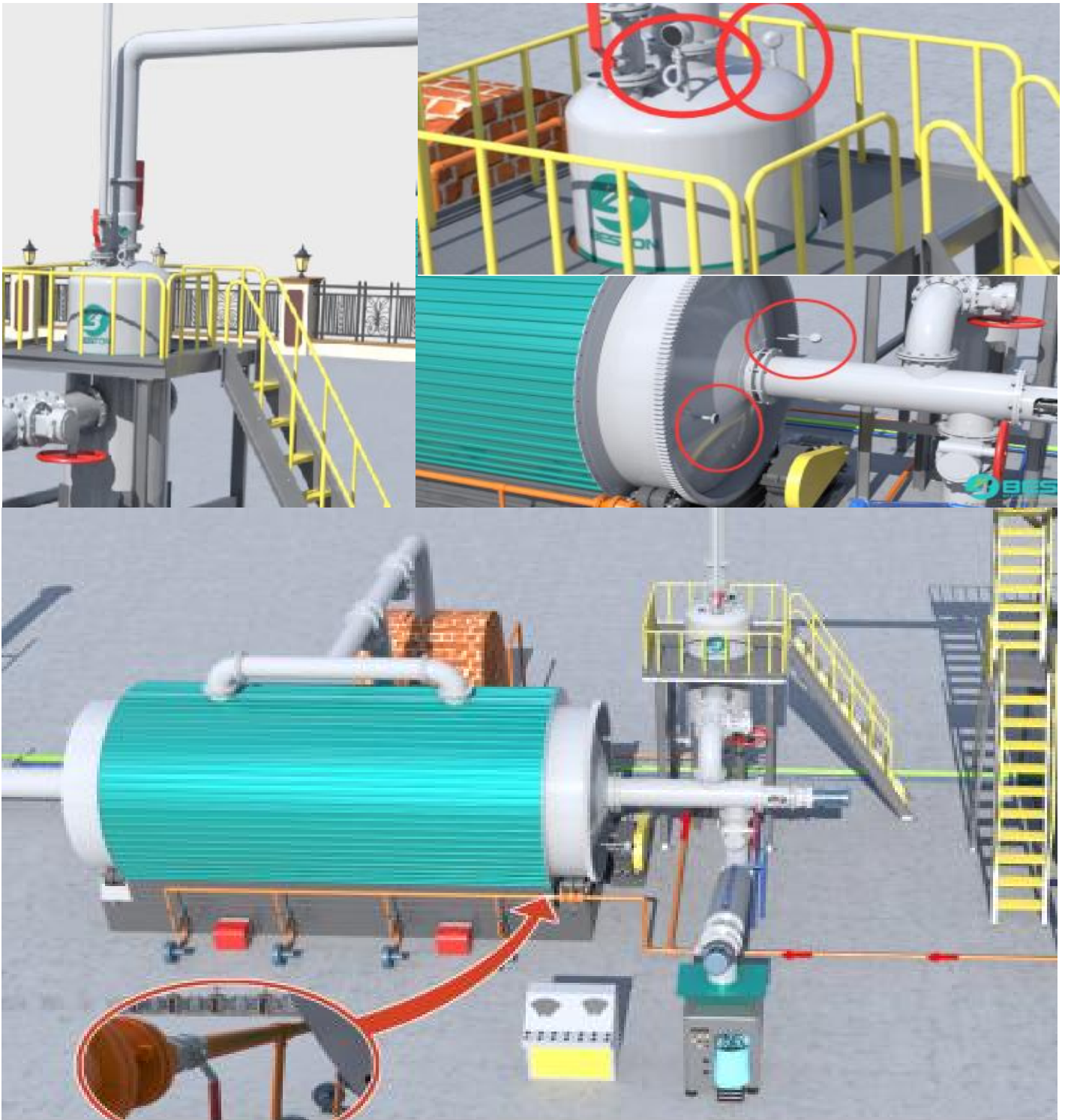
**塑料热解流程图**  
Flow Chart for Plastic Pyrolysis



# Parameters

Model	BLJ-16 WAX	BLJ-16 CAT	BLJ-16 Standard	BLJ-16 ULTRA
Time to Market	2022	2022	2013	2022
Motor Brand	Chinese brand	Chinese brand	Chinese brand	ABB Explosion-proof
Suitable Raw Materials	Waste plastic bales (Max.0.9*0.9*1.6m)	Waste plastic bales (Max.0.9*0.9*1.6m)	Whole tire<120cm; Tire blocks<15cm; Oil soil with liquid content<30%	Waste plastics; Tires; Oil sludge
Input Capacity (Max.)	8-10t/batch	8-10t/batch	Whole tire <120cm or Tire blocks<15cm: 10-12t/batch Sidewall removed tire: 15-16t/batch Oil soil: 16-18t/batch	Waste plastic bales: 8-10t/batch Whole tire <120cm or Tire blocks<15cm: 10-12t/batch Sidewall removed tire: 15-16t/batch Oil sludge: 16-18t/batch
Working Method	Batch	Batch	Batch	Batch
Final Oil Quality	Pyrolysis oil with wax	Pyrolysis oil with naphtha	Pyrolysis oil	Pyrolysis oil Pyrolysis oil with wax or naphtha
Reactor Material	304 Stainless steel	304 Stainless steel	Q345R Boiler steel	304 Stainless steel
Reactor Life Span (Years)	5-8	5-8	2-3	5-8
Guarantee (Months)	12	12	12	12
Delivery Time (Calendar Days)	60	60	45	90
Land Space Required (L*W*H*m)	33*13*8	33*13*8	33*13*8	33*26*8
Packing	1*40FR+3*40HQ	1*40FR+3*40HQ+1*20GP	1*40FR+3*40HQ	1*40FR+8*40HQ
Installation Period (Calendar Days)	45	45	45	60

## OUR ADVANTAGE - SAFE DESIGN



1. This whole reaction is taken place with 0.01-0.02mPa, normal pressure.

2. In case there's high pressure, the manifold will release the pressure accordingly.

3. When the manifold is connected to the reactor, a corrugated compensator is used to prevent oil gas leakage caused by thermal deformation of the steel pipe

4. Thermometer, pressure gauges on the reactor, manifold and hydro-seal to allow field monitoring or through control cabinet.

5. The use of explosion-proof oil pumps, the use of fire anti-back valve in gas pipelines respectively, to prevent explosion and back-fire.

# Plastic Pyrolysis Solution ROI Report

Cost Category	Cost Description	Unit	QNT/T	Unit Price (\$)	Cycle (days)	Cost(\$)
Fixed cost	Benchmark electricity cost			0.1	25	<b>\$175</b>
	pyrolysis production electricity cost (kWh)	°C	2300	0.1	25	<b>\$5,520.00</b>
	Maintainance fee				25	<b>\$285.71</b>
	Salary				30	<b>\$3,685.71</b>
	Management fee	person	1	18.43	30	\$552.86
	Labor	person	9	6.41	30	\$1,658.57
	Technician		2	12.29	30	\$737.14
	Staff		2	12.29	30	\$737.14
	Fuel (diesel)			285.71	4	<b>\$1,142.86</b>
	Meals			42.86	30	<b>\$1,285.71</b>
	Other uncontrollable costs					<b>\$5,714.29</b>
		Subtotal				
Variable cost	Raw material	ton	30	64.29	25	\$48,214.29
	Package					\$4,628.57
	Subtotal					<b>\$52,842.86</b>
Revenue	Fuel oil	ton	13.5	500	25	\$168,750.00
	Carbon black	ton	9	31.43	25	\$7,071.43
	Stainless steel wire		7	16	25	\$2,800.00
	Subtotal					<b>\$178,621.43</b>
Profit						<b>\$105,287.14</b>

Cost Category	Estimated Price (\$)	说明
Land acquisition	\$160,000.00	Purchase
Land Development and Infrastructure	\$85,714.29	Includes site leveling, roads, water and electricity access, etc.
Factory Construction	\$214,285.71	Calculated based on approximately XX yuan per square meter, for XX square meters.
Permit and Compliance Costs	\$21,428.57	Includes environmental impact assessment, construction permits, operational permits, etc.
Equipment cost (include installation/commissioning)	\$1,374,285.71	Including pyrolysis reactor, feeding and discharger conveyor, control system etc.
Initial Operating Capital	\$71,428.57	The operating costs for the startup phase, such as raw material procurement, staff training, etc.
<b>Total Investment Cost</b>	<b>\$1,927,142.86</b>	

Indicators	Values	Unit
Annual Net Profit	\$1,295,631	
Payback Period	<b>1.49</b>	Year
(ROI)	<b>67.23%</b>	
Project Lifecycle	8	Year
Total Net Profit (8 years)	<b>\$10,365,051.42</b>	

**Notes:**

The report focuses on plastic recycling investment opportunities in XX countries in the Southeast Asian market, mainly targeting resource processing projects using waste tires as raw materials. Through a systematic analysis of the local policy environment, raw material acquisition, production process, product sales channels and cost structure, the report comprehensively evaluates the project's operating profit potential and overall feasibility, aiming to provide investors with scientific and detailed decision-making basis.

If you need to focus on environmental protection policies, market prospects or investment returns, we can also adjust the content.



# THANKS FOR WATCHING

If you want to be as focused as we are on recycling and  
improving the global environment,  
Then join us!



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