

BESTON GROUP CO., LTD.
 * 本圖為示意圖，實際產品以最終設計為準。
 * This drawing is only a schematic effect drawing. Some product and configuration should be based on the final design or physical object.

BST-50 SLUDGE CARBONIZATION MACHINE

CARBONIZATION PLANT

QUOTE NO.	BESTON012
QUOTE	15 th ,Jan, 2024
DATE	14 th ,Feb, 2024

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You can always find a handful biomass for business!

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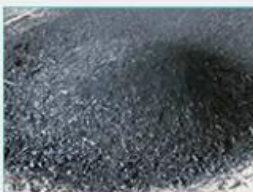
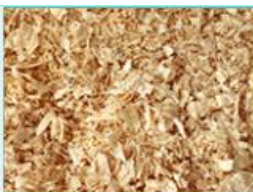
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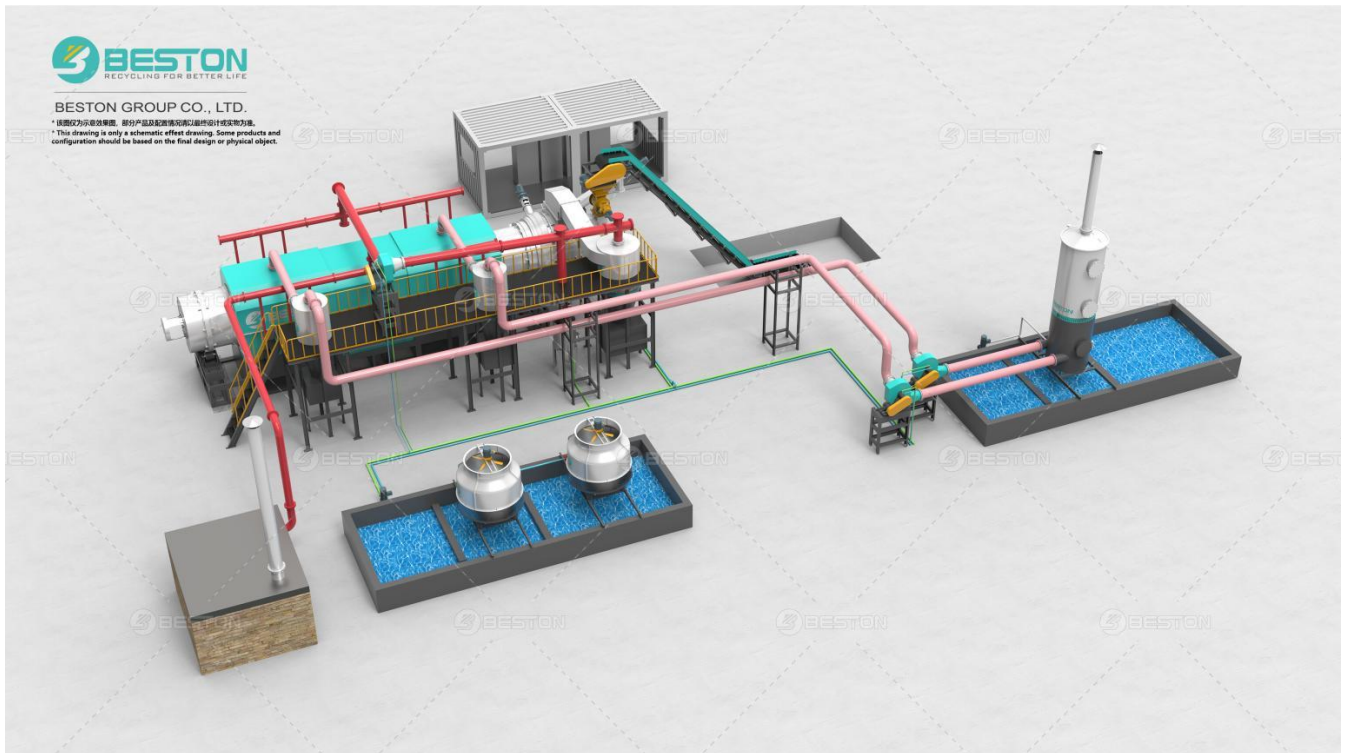
Beston Successful Installation Cases

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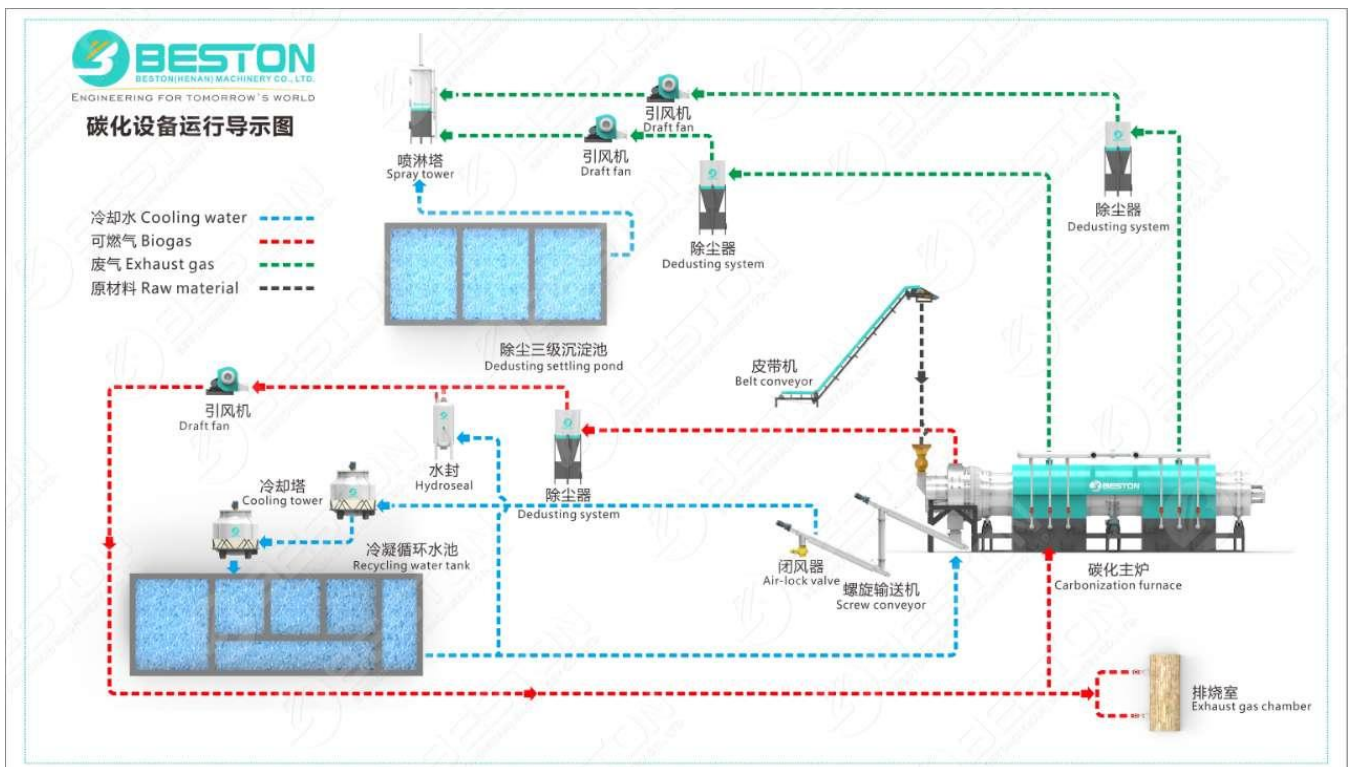
**You can always find
a handful biomass for business!**



3D Layout



The flow chart







Beston Group Co., Ltd.


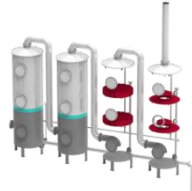


was founded in 2013. We are professional in manufacturing all kinds of waste recycling equipment. In 2018, the branch of Beston Machinery was founded in Romania. Now we have 8 overseas branches and more than 60 overseas after-sales services personnel. All the plants we supply has the certification of ISO and CE. We promise the quality of all plants we sell to every customer and welcome people from all over the world who have the intention to change the world by waste recycling to contact us.


Biomass waste recycling has always been reusable resources for our daily life, our carbonization plant can turn all kinds of biomass continuously into charcoal. The cutting-edge technology we developed makes the system operate continuously and automatically so that our customer are enabled to process big quantity of their material and turning it into value. The machine series are BST-05, BST-10, BST-30 and BST-50 with input capacity 500kg to 5 tons/h. The system generates syngas for burning so no extra fuel is required during process. Both energy saving, environmental friendly and lucrative as a business. Beston Carbonization Plant will help you build a sustainable business.

BST-50 Key Machine Parts List

Part	Name	Type	Quantity	Unit	Power	Remark
Carbonizati on main part	Inner and outer cylinder	BST50.01.01, φ2000 Q245 R+310 SS	1	set		
	Inlet and outlet head assembly	BST50.01.02	1	set		
	Gear seat	BST50.01.03	1	set		
	Without gear seat	BST50.01.04	1	set		
	Seal ring	BST50.01.05	1	set		
	Drive assembly	BST50.01.06	1	set	22kw	
	Main furnace base system	BST50.01.12	1	set		 <p>机壳 Casing</p>
	Lower case	BST50.01.13	4	pcs		
	Smoke shield	BST50.01.15	8	pcs		
	Head base	BST50.01.18	1	set		
	Rear base parts	BST50.01.19	1	pcs		
	Explosion-proof device	BST50.01.01.02.09	1	set		 <p>燃烧室 Burning room</p>
	Square upper case	BST50.01.21	2	pcs		
	Drive case	BST50.01.22	1	pcs		 <p>驱动 Casing</p>
Drive guard	BST50.01.23	2	set			

	installation Accessories		1	set		
air-lock valve (carbonized feed)	650 air-lock valve	BST50.02	1	set	7.5kw	 Including motor reducer, used for slag discharge
air-lock valve(carbonized discharge)	450 air-lock valve(Round head)	BST50.29	1	set	3kw	
air-lock valve feed		BST50-14	1	set		
Cooling discharge	325 cooling discharge	BST50.04	1	set	3kw	 Including motor & reducer
	cooling discharge 2	BST50.06	1	set	3kw	
	Hot water pipeline centrifugal pump	IRG50-200B-21.8-5.5KW	1	set	5.5kw	
Syngas	Syngas out	BST50.07	1	set	310	
	1500 Cyclone dust removal square head	BST50.12	1	set		
	Syngas condenser	(Include 3 pcs)	1	set		
	Safe hydro-seal	φ1000, Height 1000,	1	set		
	High-pressure centrifugal fan	9-19-Nø6C-18.5KW (right 0°)	1	set	18.5kw	
	Diesel burner	1200000kcal/h	2	sets		
	Oil gas draft fan pipe	BST50.16	1	pcs		
	Oil gas out place	BST50.17	1	pcs		
Burning system	Syngas valve	DN300,PN10	1	set		
	Syngas valve	DN250,PN10	4	sets		
	Stopcock	DN80, PN10	14	sets		
	89-180 new fire mouth	BST30.18.02	14	pcs		
	Ignition control cabinet and	Electrical supply	1	set		

	accessories					
	Igniter (including ignition gun)	Electrical supply	14	set		
De-dusting system	1300 Cyclone Dust Round Head	BST50.08	2	set		 
	Boiler centrifugal induced draft fan	Y5-47-6C-11KW-右 0°	2	set	11kw	
	Hot smoke induced draft fan 1 change head 1	BST50.24.03	2	pic		
	Hot smoke induced draft fan 1 change head 2	BST50.24.04	2	pic		
	Box condenser	(120-80),304 ss material, 40000 air volume	1	Set		
	Spray dust removal device	BST50.23.02	2	set		
	Chimney	BST50.23.04	1	set		
	Ceramic ring	φ38x38	10	bag		
	Water pump		1	set	7.5kw	
Input system	conveyor	TD-800	1	set	7.5kw	
Electric control cabinet	Host electric control cabinet	PLC Mitsubishi	1	set		
Cooling Pipe	Cooling Pipe	Galvanized steel pipe φ76X3/Q235B (Thickness 2.5-4)	75	m		This standard configuration is not enough for some customers to prepare by themselves
	Cooling Pipe	Galvanized steel pipe DN15	50	m		
Combustible gas pipeline	Syngas pipe	Steel pipe φ273X5/Q235B	36	m		
	Syngas pipe	Seamless tube φ377X5/20(8 m/piece)	20	m		

	Syngas pipe	Steel pipe φ89X4/Q235B	24	m		
De-dusting pipe	De-dusting pipe	steel tube φ377X4	100	m		
Cooling tower	Cooling tower	100T	2	sets	2.2kw	
Standard Parts	Bolts, nuts, flat washers, spring washers, metal washers, flanges, valves, tees, elbows, pipe joints, wire joints, unions, etc.					

Technical Parameters

ITEM	CONTENTS
24-Input capacity	60-70 MT
Operating pressure	Constant pressure
Maximum Height	9 meters
Reactor rotate speed	0.4 turn/minute
Workers	4-6(2 groups)
Land area	35m*15m*10m
Electricity consumption	103.9kw/h actual consume is 70%
Water consumption	2-4m ³ /day
Fuel(Natural gas)	Initial heating natural gas 160-200m ³

Quotation

Item	Data	Quantity
BST-50 Carbonization Plant(Stainless steel)		set
BST-50 Packing	1*40FR+5*40HQ	set
Delivery	60 Working Days	/
Loading Port	Qingdao China	/
Payment	30% T/T in advance, 70% T/T before delivery	/
Price Validity	30 days from Quote	/

What services can Beston offer?



Installation and Training

Engineer for installation guiding, testing, commissioning and operators training.



Installation period

Anticipated period is for 40 working days.



Installation Charges

Client cover engineer's round-trip tickets+ board and accommodation + phone calling charge and related basic daily expenses, as well as engineer salary (150USD one day one person site service/ 50USD per day online instruction).



Warranty

12 months guarantee On-site services Regular phone call visiting Whole life time maintenance and wearing parts supply

Beston Successful Installation Cases



6

Continents

70+

Countries

300+

Successful Cases