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We are a professional plastic machine designer and manufacturer with good virtue, good faith and prompt action.



WASTE PLASTIC RECYCLING

SINC 2005

**ZHANGJIAGANG BOXIN
MACHINE CO., LTD**



ABOUT US

Zhangjiagang Boxin Machine Co., Ltd an innovative company, remains committed to plastic recycling and extrusion technology and specializes in providing plastic recycling cleansing and granulation equipment.

We are professional supplier of customized solution to plastic recycling, on the basis of our development teams and a wealthy content of industrial experience.

Main Products of Boxin: PET bottle recycling cleansing line, PE film / PP woven bag recycling cleansing line, HDPE / PP hard plastic recycling cleansing line, recycling cleansing granulation production line and plastic shredder.

OUR ADVANTAGES:

Development teams specializing in plastic recycling industry more than 20 years;
Aprofessional supplier of customized solution to plastic recycling;
Well-improved sales system including pre-sale, in-sale and after-sale;
Professional engineers in service of debugging and technological guidance.



01-02	PET BOTTLE RECYCLING &WASHING SYSTEM
03-04	HDPE /PP RIGID MATERIAL RECYCLING & WASHING SYSTEM
05-06	PE FILM/PP WOVEN-BAG RECYCLING & WASHING SYSTEM
07-08	DOUBLE-STAGE COMPACTOR GRANULATION LINE
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PET BOTTLE RECYCLING & WASHING SYSTEM

RANGE OF APPLICATION:

It is applicable to PET material carbonated beverage bottles, drinking water bottles, fruit juice bottles, oiler, tea drink bottles, etc.

PRODUCT FEATURES:

PET bottle washing and recycling key factor removal rate of the impurities, which including the pollutants in the environment, other materials attached to the original plastic products and homogeneity substances with different colors. The higher impurities will be more likely to produce the high quality downstream products with lower manufacturing cost and production losses. Boxin team provides more equipment combinations for customers' options according to customers' demands. We have reasonable collocation according to the composition characteristics of the different PET bottles in the worlds in modular way so as to meet the requirements for best production and minimum input.

TECHNICAL DATA

Model	BXA-1000	BXA-2000	BXA-3000	BXA-5000
Output (KG/H)	1000	2000	3000	5000
Water consumption (T/H)	3-5	6-8	10-12	12-15
Installed power (KW)	210-260	400-460	600-670	920-1200
Labor requirements	4-5	5-6	6-8	8-10
Factory area (L×W×H)	85×5×5	110×6×6	120×6×6	135×8×7

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.



Baler Opener



Trommel Machine



Label Remover Machine



Manual Sorting Platform



Crusher



Hot Washer



Floating Washing Tank



Bagging System



HDPE /PP RIGID MATERIAL RECYCLING & WASHING SYSTEM

RANGE OF APPLICATION:

It is applicable to milk bottles, engine oil bottles, blue big bucket, environmental dust bin, plastic table and chair, etc.

PRODUCT FEATURES:

HDPE/PP rigid plastics recycling key factor the removal of the all kinds of impurities from material. Boxin Team is familiar with the different characteristics of various impurities. The single machine design of different function performances is for the separation of the impurities. Different modular forms connect each unit. It can promote the capacity expansion and industrial upgrading of the follow up equipment with the most cost effective input, eliminate the pollutants in the initial stage, save the energy and reduce the energy consumption and effectively improve the product quality.

TECHNICAL DATA

Model	BXB-1000	BXB-2000	BXB-3000	BXB-4000
Output (KG/H)	1000	2000	3000	4000
Water consumption (T/H)	3-4	4-5	6-8	8-10
Installed power (KW)	180-260	280-350	420-480	480-550
Labor requirements	2-3	3-5	4-6	5-8
Factory area (L×W×H)	42×4×5	50×6×5	60×6×5	66×7×5

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.



Crusher



Low speed friction Washer



Hot floating washing tank



High Speed Friction Washer



Floating Washing Tank



Dewatering Machine



bagging System



Back view of the equipment



PE FILM/PP WOVEN-BAG RECYCLING & WASHING SYSTEM

RANGE OF APPLICATION:

It is applicable to agricultural film, market film, municipal solid waste separation film, woven bag, ton bag, etc.

PRODUCT FEATURES:

The plastic film and woven bag are very valuable secondary resources, which can be used for the recycling of various domestic and industrial products. Boxin Team provides a series high quality and high efficient washing and recycling equipment to effectively remove the sand and impurities, etc, and offers customized integrated solutions for customers according to the actual demands of customers and the actual situation in this region.

TECHNICAL DATA

Model	BXC-300	BXC-500	BXC-1000	BXC-2000
Output (KG/H)	300	500	1000	2000
Water consumption (T/H)	2-3	4-6	7-10	10-15
Installed power (KW)	130-160	210-260	300-350	400-460
Labor requirements	2-3	2-3	3-5	4-6
Factory area (L×W×H)	30×4×5	40×4×5	45×6×5	55×7×5

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.



Crusher



Friction Washer Machine



Hot floating washing tank



High Speed Friction Washer



Floating Washing Tank



Low Speed Friction Washer



Dewatering Machine



Drying System



DOUBLE-STAGE COMPACTOR GRANULATION LINE

RANGE OF APPLICATION:

It is applicable to plastic film, woven bag, plastic bag, fibre, waste silk, non woven bag and other flexible plastics.

PRODUCT FEATURES:

BXC series pelletizing production line integrates crushing, compactor and pelletizing, with high level of automation. With high feeding efficiency, it is more suitable for large size film to enter the equipment directly without crushing. Intelligent modular system and onekey for startup and shutdown are secure and stable. We can provide single stage, double stages and multi-stage structure according to different requirements in order to ensure the excellent quality of the particles.



TECHNICAL DATA

Model	BXC2-85/100	BXC2-100/120	BXC2-130/130	BXC2-160/160	BXC2-180/180
Output (KG/H)	150-200	250-350	450-550	650-750	800-1000
Installed power (KW)	140	205	290	410	580
Labor requirements	2-3	2-3	2-3	3-4	4-5
Factory area (L×W×H)	10×5×4	12×5.5×4	14×6.5×4	16×6.5×4	18×6.5×4.5

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.



DOUBLE-STAGE RIGID MATERIAL PELLETIZING PRODUCTION LINE

RANGE OF APPLICATION:

It is applicable to rigid plastics, such as plastic milk bottle, plastic detergent bottle, plastic blue big bucket, plastic service plate, plastic knife and fork, plastic table and chair, pipe materials, section bar, etc.

PRODUCT FEATURES:

BXB pelletizing production line with forced transportation, high efficient plasticizing mixing and shearing dispersion. Nosing free backpressure backflow can avoid the over heat and help the distribution optimization of various industrial processes. High efficiency and high productivity are suitable for processing of carbon black master batch. We can provide single stage, double stages and multi-stage structure according to different requirements in order to ensure the excellent quality of the particles.

TECHNICAL DATA

Model	BXB2-100/100	BXB2-120/120	BXB2-150/150	BXB2-180/180	BXB2-200/200
Installed power (KG/H)	180-300	300-400	400-550	700-900	800-1100
Installed power (KW)	200	230	290	410	540
Labor requirements	2-3	2-3	2-3	3-4	4-5
Factory area (L×W×H)	11×5.5×4	12×5.5×4	14×6.5×4	16×6.5×4	18×6.5×4.5

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.



PET PARALLEL TWIN SCREW PELLETIZING LINE

RANGE OF APPLICATION:

It is applicable to PET bottle pelleting.

PRODUCT FEATURES:

BXA series pelletizer is able to adjust the screw draw ratio, screw arrangement, exhaustion quantity position and rational optimized configuration according to processing material system and technology and formula requirements by using building block system principle design, thus achieving the plasticization, shearing, dispersion, homogenization, exhaust and pressure building of materials and completing the high polymer material technology.

TECHNICAL DATA

Model	BXA1-50	BXA1-65	BXA1-75	BXA1-95
Installed power (KG/H)	100-150	200-300	400-500	650-750
Installed power (KW)	130	175	235	360
Labor requirements	1-2	2-3	2-3	2-3
Factory area (L×W×H)	15×1.5×2.5	16×1.5×2.5	17×1.5×2.5	19×1.5×3

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.



RANGE OF APPLICATION:

It is applicable to plastics injection molding, extrusion, film blowing and other general plastics, rubber-tire rubber, reclaimed rubber, chemical fiber- carpet, etc.

PRODUCT FEATURES:

BXD series crusher is designed to meet the production requirements of high-capacity crushing and one-time crushing of large materials. Therefore, this series crusher can be used for secondary crushing in the production line after shredders. We design the best cutting angle, the most suitable cutting rate and adopt wear resistant design according to the materials characteristics in order to ensure the long time and non stop operation of the system and achieve the ideal material crushing effect.



TECHNICAL DATA

Model	BXD-800	BXD-1000	BXD-1200	BXD-1400	BXD-1600
Installed power (KG/H)	400-600	800-1200	1300-1600	1600-2000	2000-2200
Installed power (KW)	37	55-75	90-110	110-132	160
Number of rotary knives	6	6 (10)	6 (10)	10	10
Number of fixed knives	4	4	4	4	4
Main shaft rotation diameter (mm)	Ø450 (500)	Ø630	Ø750	Ø800	Ø800
Overall (mm)	4000×2350×3800	4200×2350×4870	4500×2500×5000	4750×2650×5100	4750×2850×5200

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.

RANGE OF APPLICATION:

It is applicable to plastics injection molding, extrusion, film blowing and other general plastics, rubber-tire rubber, reclaimed rubber, chemical fiber- carpet, etc.

PRODUCT FEATURES:

BXE series single shaft shredder is suitable for the shredder various big size materials, particularly for big size or rigid materials(such as thick-wall tube, layer board, turnover box, etc). The whole machine is equipped with high-capacity hopper, crushing silo and high efficiency pushing material device, which can give full play to the capacity of rigid and large size materials.



TECHNICAL DATA

Model	BXE-800	BXE-1000	BXE-1200	BXE-1500	BXE-1800
Installed power (KG/H)	400-800	600-1200	1300-1600	1600-2000	2000-2600
Installed power (KW)	45	55	75	90 -110	160-240
Number of rotary knives	34+4	46+4	68+4	78+4	110+6
Number of fixed knives	2	2	2	2	4
Main shaft rotationdiameter (mm)	Ø400	Ø400	Ø400	Ø450	Ø500
Overall (mm)	3200×1900×2200	3520×2100×2200	3980×2300×2400	4200×2500×2480	4600×2600×2560

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.

DOUBLE-SHAFT SHREDDER

RANGE OF APPLICATION:

It is applicable to rigid materials, such as plastics - mixed plastics, plastic barrels or containers, etc, electrical appliance- waste household appliances, packaging materials - waste paper, cardboard, etc.

PRODUCT FEATURES:

BXF series double shaft shredder with low noise, low energy consumption and high output, showing the superiority of low speed and large torque cut design. It is particularly suitable for the crushing of the containing metal or stone, or large size materials in package. This machine can reduce the material volume and facilitate the processing in the next step, such as secondary crushing, material separation, washing, etc.



TECHNICAL DATA

Model	BXF-800	BXF-1000	BXF-1200	BXF-1500	BXF-1800
Installed power (KG/H)	400-800	600-1200	1000-1600	1500-2000	2000-3000
Installed power (KW)	37	30 (37) ×2	45×2	55 (75) ×2	75(90)×2
Number of rotary knives	16	20	24	30	36
Number of fixed knives(bar)	4	4	4	4	4
Main shaft rotation diameter (mm)	Ø370×50	Ø400×50	Ø450×50	Ø480×50	Ø550×50
Overall dimension (mm)	2200×1450×2450	3730×1520×3400	4000×1700×3600	5000×2000×4000	6000×2200×4500

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.

ELECTROMAGNETIC AUTOMATIC SHARPENER

RANGE OF APPLICATION:

It is applicable to crusher, paper cutting machine, plastic machine, plate shearing machine and other straight edge blades of cutting machines.

PRODUCT FEATURES:

- The machine adopts high-quality low-carbon plate integrated welding to improve the deformation resistance.
- The rail adopts high quality wear resistant steel bar, which makes the sliding platform operation more stable and accurate.
- Grinding head box and sliding table adopt cast iron material and the centralized oil supply device can be lubricated at various places.
- Gear and rack has stable performance, small noise high transmission, long life service and easy maintenance.
- Electromagnetic suction grinder has even suction, no deformation of blade and high straightness of the blade.
- The electromagnetic blade platform adopts turbine and worn drive with accurate rotation angle, coarse shaft design and good stability.



TECHNICAL DATA

blades length	800mm	blades width	250mm
Blade platform rotation angle	0-90 度	Rotation angle of grinding head	±90 度
Input voltage	380V	Straightness of blade	<0.05mm/m
Motor power of grinding head	3KW	Knife grinder specification	φ200×110×φ32
Motor speed of grinding head	1440r/min	Total power	4KW
Power of reciprocating moto	0.75KW	Machine overall size	2200×1000×1250mm
Reciprocating speed of sliding table	0-12m/min	Machine weight	1100Kg

Notes : The parameters above are only for your preference. The configuration parameters will subject to changes according to different materials.

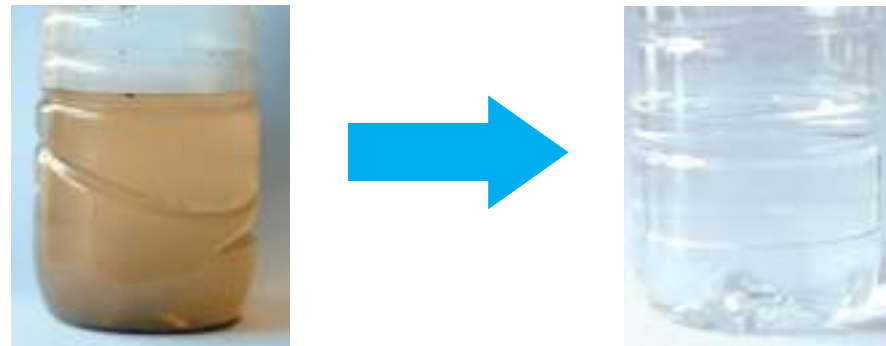
SEWAGE TREATMENT SYSTEM

PURPOSE

It will produce a large amount of waste water in the recycling and washing process of the waste plastics. This system can mainly remove the suspended solid(SS) in the water and make the water clean again in order to achieve the recycling or discharge purpose.

PRODUCT FEATURES:

Most of the waste water from plastic washing is pollutant with suspended particles with relative few dissolved solids and large water consumption in the washing process. This system adopts coagulating sedimentation and flotation processing and directly and quickly reduces the primary settling sludge with solid and liquid separation and filtration. The sewage sludge is compressed into mud cake and can be reused after filtration with clean water.

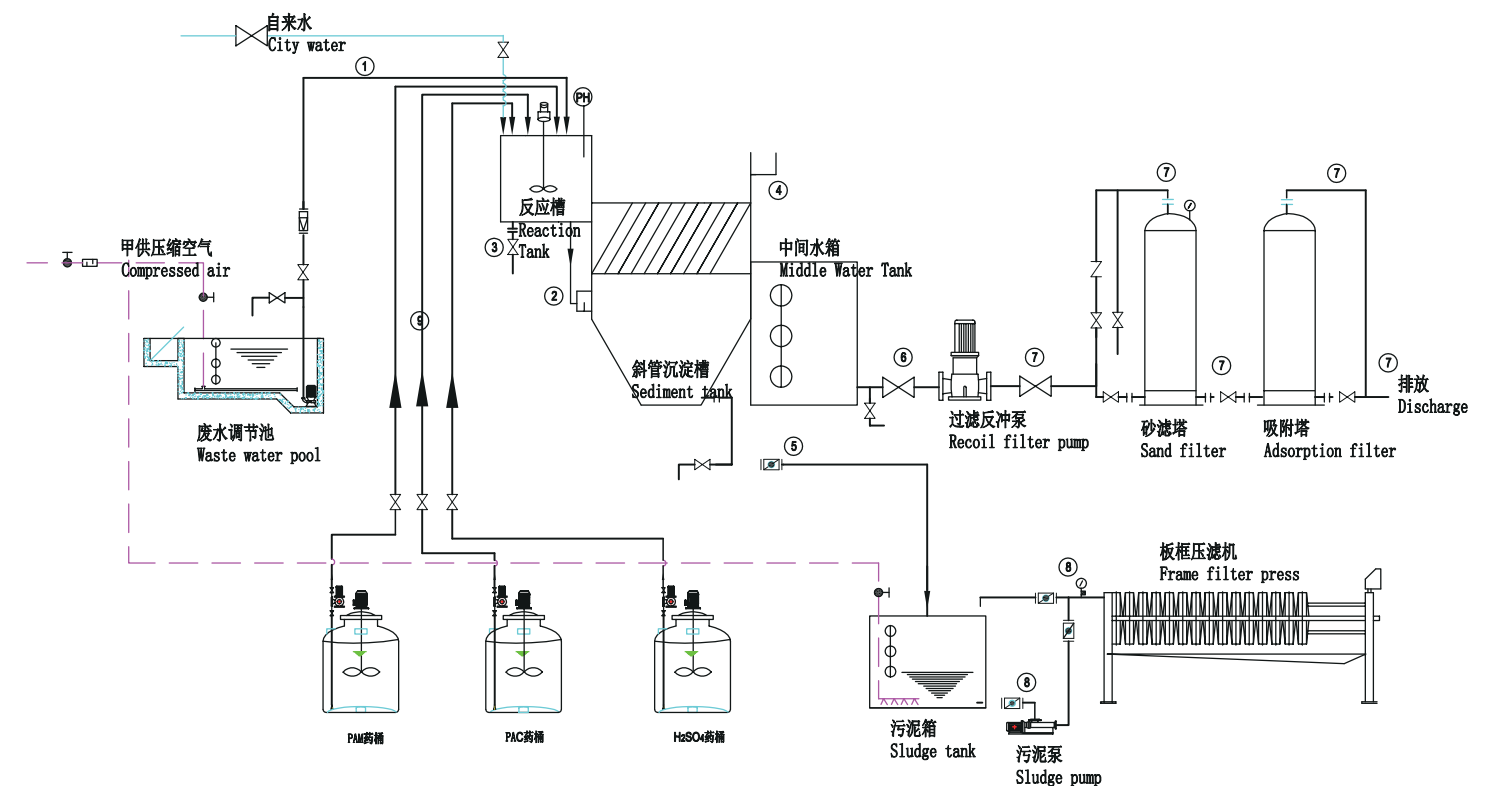


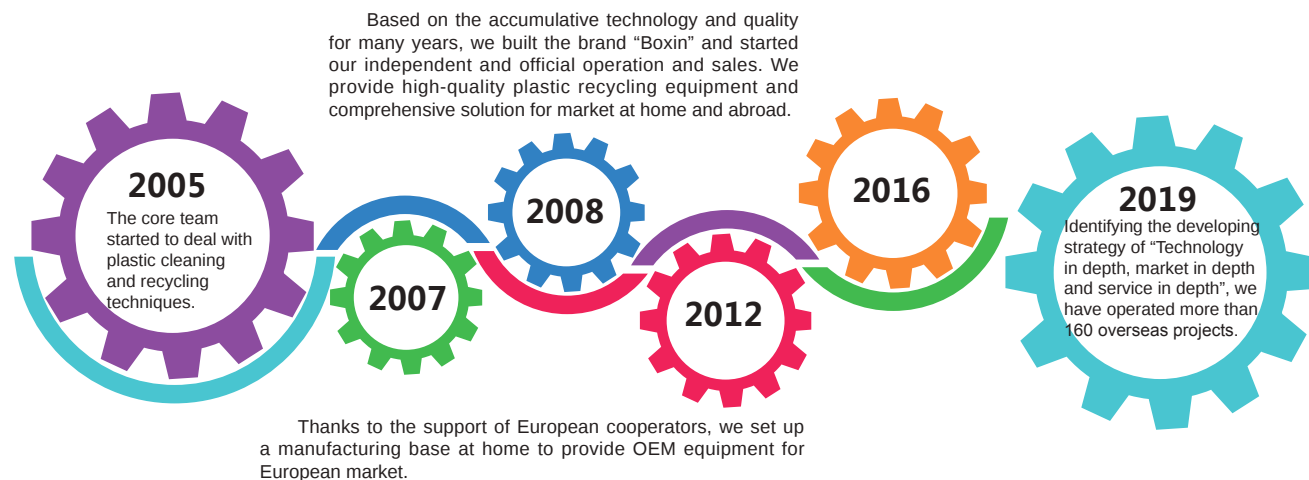
PROCESS FLOW DIAGRAM :

Type of Waste Water: water used to clean plastics.

Wasted Water Flow: 10-50m³/h (based on the situation of clients, we can customize the project for different water flow).

Waste Water Quality and Outlet Index: suspended solids (SS) before sewage treatment < 2000mg/L, SS after sewage treatment: ≤100mg/L.





Vision

Being an industry-leading provider for plastic recycling equipment and solution by using high quality as base and taking technical innovation as breakthrough and customer demand as orientation.

Mission

Concentrating on the technical development of recycling field, customer demand and challenge, Boxin provides competitive recycling program and high-quality recycling system to realize win-win in economic benefit and green environmental protection.

Positioning

Boxin focuses on providing high-quality and high-performance plastic recycling solutions and equipment.

PRODUCT QUALITY THAT COMPLIANT WITH EUROPEAN STANDARD

Sophisticated production: our manufacture technology of equipment is comparable to that of European manufacturing enterprises, thus, we got the affirmation of European and Japanese customers.

Reliability and durability: the high impurity of recycled plastics does harm to use of equipment. Therefore, the equipment should be durable enough to deal with sudden failure and unreasonable abrasion due to impurities of materials.

High security: there are two aspects for product safety, firstly, physical protection that meets the CE standard; secondly, equipment protection, that is, to detect and remove the potential factors that may do harm to equipment.

Economical operation: the equipment was designed to maintain 30% safe remaining capacity of power. Besides, we have committed to increase the operating efficiency and energy conservation.

BEST SOLUTION

Rich experience in recycling practice: with 15 years experience of plastic recycle, we operate plastic recycling factories and conduct in-depth research in chemical fiber enterprises.

International team: our international technical team can meet the requirements of customer demands as well as industrial trends. Therefore, we can provide you with most competitive program.

Real user feedback: by visiting and maintaining good relationship with customers, we collect the first-hand and real customer feedback, which provide foundation for our technical improvement and development.

Analysis of raw materials: with more than 150 programs all over the world, we have good understanding of various kind of raw materials in different areas.

STRONG INTEGRATING SYSTEM

Crushing, automatic separation, granulation, electrostatic separation and color sorting.

In the plastic recycling industry, Boxin is one of the few international manufacturers for mainstream automatic sorting system, granulation units with high quality and productivity and high quality shredder and crusher as well as a system integrator with rich cooperating experience.

SUITABLE AND TIMELY AFTER-SALES SERVICE

Technical support: we offer comprehensive and effective technical and business support from optimization of the cleaning recycled production line to sales of final products.

Spare parts: with plentiful spare parts at stock, we can offer customer with spare parts in time to remove their worries.

Quick response: we ensure that our people can give response at once and offer on-site service in time.

Equipment installation and debugging: we will have complete installation and debugging in our factory and thus deal with risks and deficiencies before delivery. In addition, our professional installation and debugging team will go to customer's place for installation, debugging and training.

