



Quotation

According to our terms of delivery and payment we are pleased to submit the following offer:

PET BOTTLES TREATMENT AND WASHING PLANT TYPE BE-PET 500

- **Capacity:** Input 500 kg/h Output 420 kg/h
- **Input Materials:** PET-Bottles 0,5 – 2 Liter
with PET bottles with PE/PP caps and paper or LDPE labels

The complete line consists of the following components:

Item 1 Granulator Type PC 5070

Heavy duty type with integrated sound proofing and conveyor feed belt

- Rotary knives: 5 x 2
- Static knives: 2 x 2
- Rotor length: 700 mm
- Rotor diameter: 500 mm
- Feed opening: 700x500 mm
- Weight: 2600 kg
- Power: 55,0 kW

with suction device consisting of:

Material fan blower, connecting pipe-work and cyclone for charging the downstream precleaner.

Drive power: 7,5 kW

Item 3 Precleaner

to separate adherent contamination in dry condition

- Type: MTV 80/40
- Housing diameter: 1180 mm
- Housing height: 1330 mm
- Screen diameter: 850 / 450 mm
- Rotor diameter: 825 / 475 mm
- Rotor drive power: 11 kW
- Rotor speed: 1000 UpM
- Feeding screw drive power: 0,55 kW
- Drive power cleaning device: 0,55 kW
- Material: RSt 37-2 - coated base frame:
- Length: 1350 mm
- Width: 1350 mm
- Height: 1100 mm
- Material: RSt 37-2, zinc plated

**Item 3 Air Classifier Unit**

to separate detached labels consisting of:
Pipe-work, cyclone, rotary valve, sifter cascade,
suction blower and cyclone

- Type: 1 SE 50
- Rotary valve drive power: 0,55 kW
- Blower drive power: 4 kW
- Material: RSt 37 – coated and stainless steel 1.4301

Item 4 Hot Wash Device

Dissolution of label glue including NaOH dosing device
and electric heater

- Type: LW 50-K
- Process temperature: 75-90°C
- Residence time: 8-12 min.
- Housing diameter: 1860 / 850 mm
- Housing height: 1050 mm
- Total height: 2430 mm
- Turning drive power: 0,25 kW
- Drive power feeding screw: 0,55 kW
- Drive power 8 mixers: 0,55 kW per mixer
- Heater: 65 kW
- Insulating: Rock wool / Stainless steel 1.4301
- Material: Stainless steel 1.4301

Item 5 Rinsing Device

Rinsing of the PET-Flakes mit clear water including drying and separation of
the PE/PP bottle caps

- Type: NW 50/50 – MT
- Length: 1000 mm
- Width: 550 mm
- Height: 550 mm
- Main rotor diameter: 400 mm
- Main screen diameter: 430 mm
- PE/PP – Rotor: 250 mm
- PE/PP – Screen: 280 mm
- Drive power: 5,5 kW
- Material: Stainless steel 1.4301

Item 6 Base Circular Flow

in order to lower NaOH consumption consisting of reflux pie-work,
collecting pot and circulation pump with drive power 2,2 kW

Item 7 Hydro Cyclone Separator

for separation of PE/PP caps from PET-Flakes consisting of
mixing pot, supply pump with drive power 5,5 kW, pipe-work and hydro cyclone



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Item 8 Mechanical Dryer

for drying of the PET-flakes

- Type: MT 70/40
- Housing diameter: 880 mm
- Housing height: 1330 mm
- Rotor diameter: 750 / 400 mm
- Screen diameter: 725 / 375 mm
- Rotor drive power: 7,5 kW
- Rotor speed: 1000 upm
- Drive power feeding screw: 0,55 kW
- Cyclone: Ø 400 mm
- Drive power cleaning device: 0,55 kW
- Material: Stainless steel 1.4301

Base frame

- Length: 1080 mm
- Width: 1080 mm
- Height: 500 mm
- Material: RSt 37-2 / zinc plated

Item 9 BIG-BAG Bagging Station

consisting of

Pipe-work

Cyclone

Suction blower with drive power 2,2 kW

Base frame

Item 10 Electric Control Cabinet

Electronic control for the before listed components and motors,
cables and wiring of the components and motors are not included.

Option Thermal Air Drying

consisting of

Electrical heater 3 x 18 kW

Electrical control



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Quality and Workmanship

- All parts are manufactured from sturdy steel and stainless steel sectional profiles and sheets
- Conceived for a long lifetime
- Every machine is abundantly dimensioned for the guaranteed throughput

Guarantees

Mechanical Guarantees:

According to the guidelines of VDMA 12 months after startup at the most 15 months after delivery ex works as per our guarantee conditions. All parts subject to normal wear like V-belts, chains, scrapers, acceleration fins, screens etc. are excluded.

Operational Guarantees:

Input	450 - 500 kg/h
Output	400 – 450 kg/h

Limitation of Liability

Our liability to consequential damages only applies within the frame of our liability insurance. We are under no liability regarding loss of production, lost profit as well as damages caused by delay.

Terms of Delivery

ex works, unpacked, without transport insurance, without assembling and commissioning

Delivery Time

3 months after receipt of down payment and opening of L/C

Terms of Payment

40%	with the order
60%	against an irrevocable and confirmed L/C to be opened in our favour with a first class German bank payable upon first notification.

Assembly

Assembly is done by the client. The supplier may provide a supervisor for start up.

All expenses like airfare, hotel accommodation and daily expenses are borne by the client.



Installed Power Details and Consumption Values

Item	Description	Installed Power (kW)	Power Consumption in Operation (kW)
1	Granulator		
1.1	Drive power	55	36,8
1.2	Material fan blower	5,5	3,7
2	Precleaner		
2.1	Drive power	11	7,4
2.2	Feeding screw	0,55	0,4
2.3	Screen cleaning device	0,55	0,4
3	Air Classifier Unit		
3.1	Rotary valve	0,55	0,4
3.2	Suction blower	4,0	2,7
4	Hot Wash Device		
4.1	Feeding screw	0,55	0,4
4.2	Turning drive power	0,25	0,2
4.3	Mixers 8 x 0,55 kW	4,4	2,9
4.4	Heater	65	43,6
5	Rinsing Device		
5.1	Drive power	5,5	3,7
6	Base circular flow		
6.1	Circulation pump	2,2	1,5
7	Hydro cyclone		
7.1	Supply pump	5	3,7
8	Mechanical Dryer		
8.1	Drive power	7,5	5,0
8.2	Feeding screw	0,55	0,4
8.3	Drive power cleaning device	0,55	0,4
8.4	Rotary valve	0,55	0,4
9	Big-Bag Bagging Station		
9.1	Suction blower	2,2	1,5
	Total	171,4	114,8
Option	Thermal Air Drying		
	Heater 3 x 18 kW	54	36,2
	Total including Option	225,4	151,0
Water Water consumption in total			0,6 m³/h
Hot Wash Device Total volume First filling of NaOH NaOH consumption (alkaline solution 33%) Price depending of buying quantities NaOH-consumption is depending of pollution and required final cleanness.			300 ltr. ca. 21 ltr. ca. 9 ltr./h ca. 0,30 - 1,00 €/l.
Space requirements (no special foundations needed) Length Width Height			20,0 m 6,0 m 7,0 m

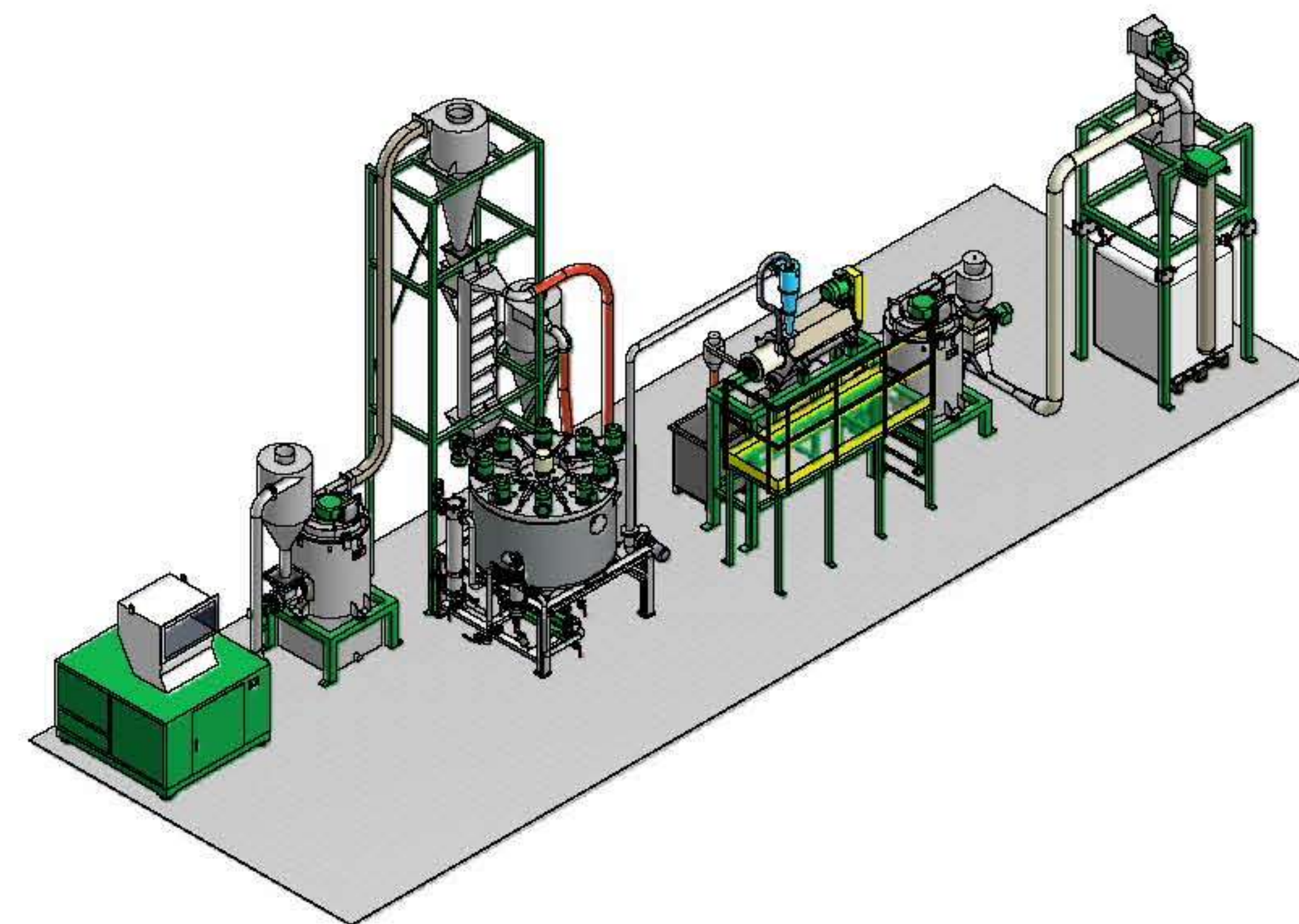
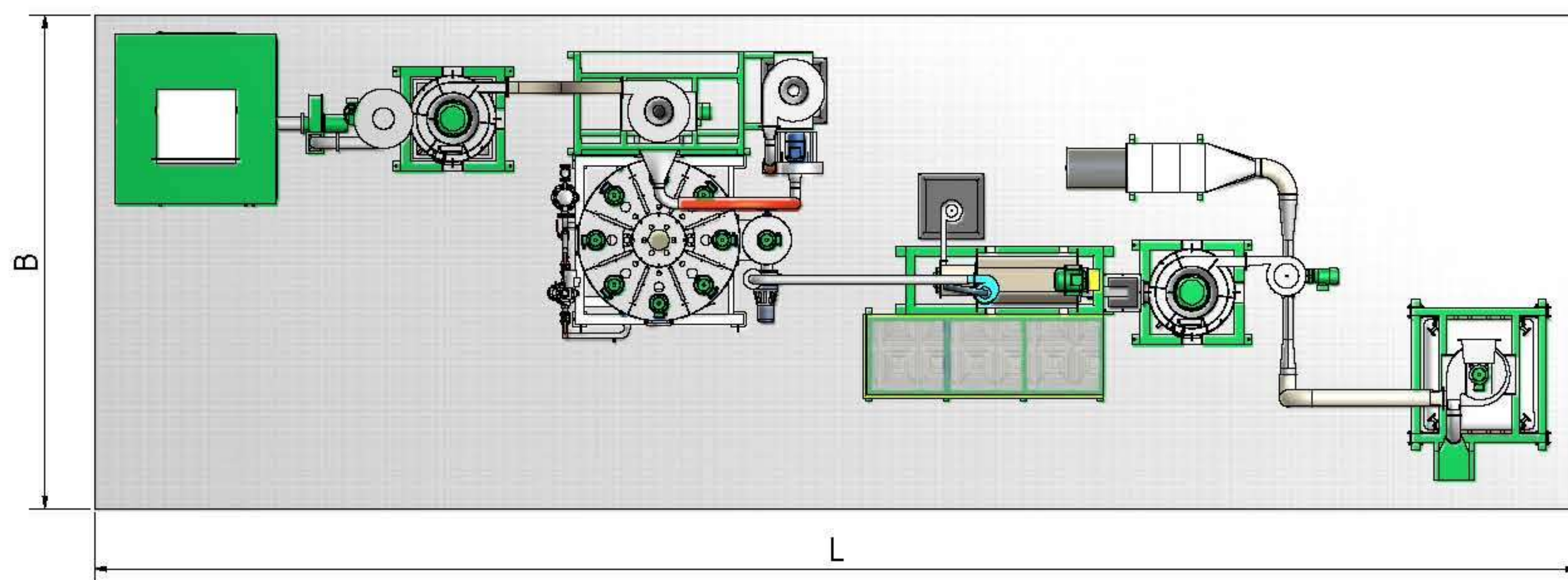
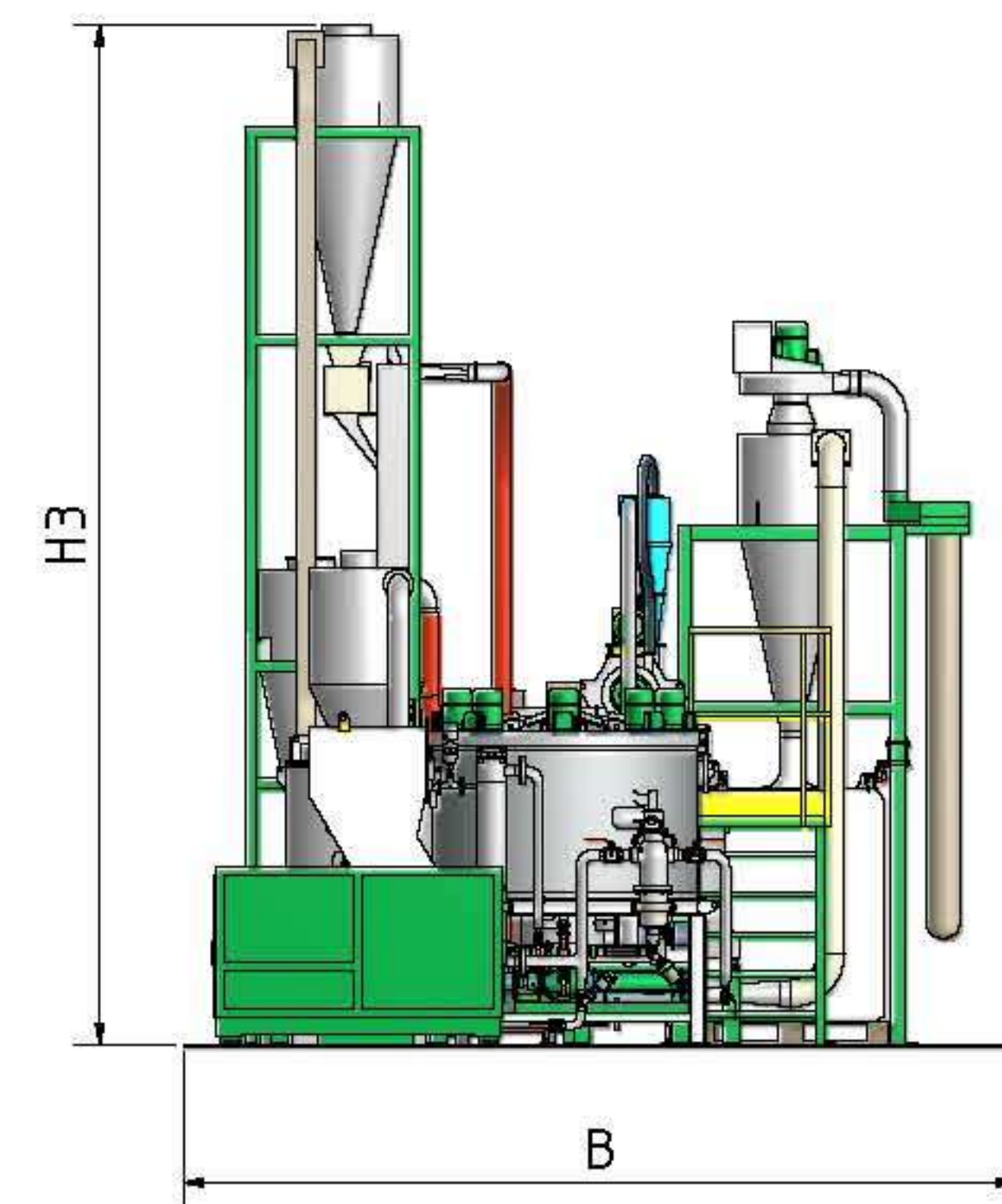
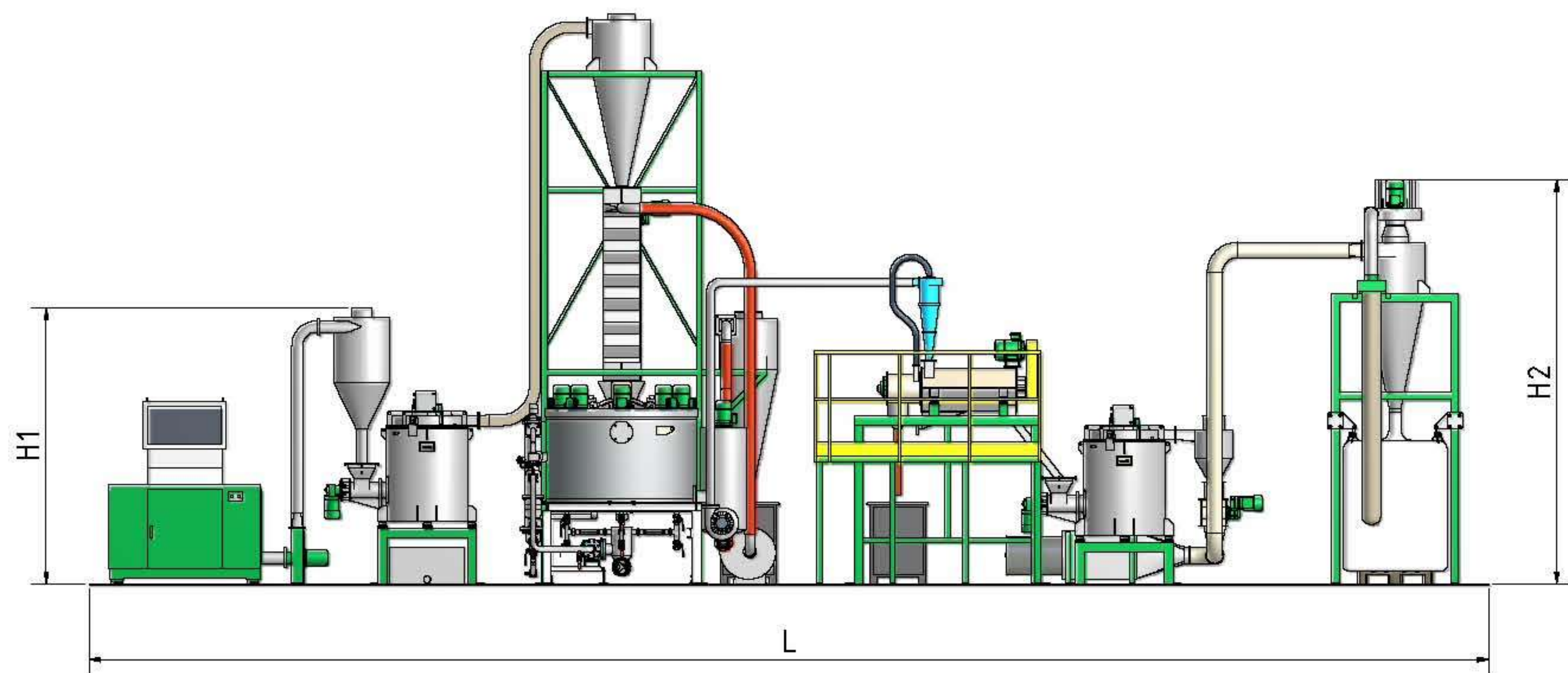


Tabelle					
Typ	L	B	H1	H2	H3
BE-PET-300	15 m	5 m	2,96 m	4,34 m	6,12 m
BE-PET-500	17 m	5 m	2,96 m	4,34 m	6,70 m

S & P		Allgemein- toleranz ISO 2768-m	Oberfläche DIN-ISO 1302	Maßstab 1:50	Gesamtgewicht:
				Projektplan	
		Datum	Name	Recycling-Anlage Typ BE-PET-300 Typ BE-PET-500	
		Gezeichnet			
		Kontrolliert			
				010-01-0027-04	
Status	Änderungen	Datum	Name	1 / 1 A2	