

## Brief Technical Parameters

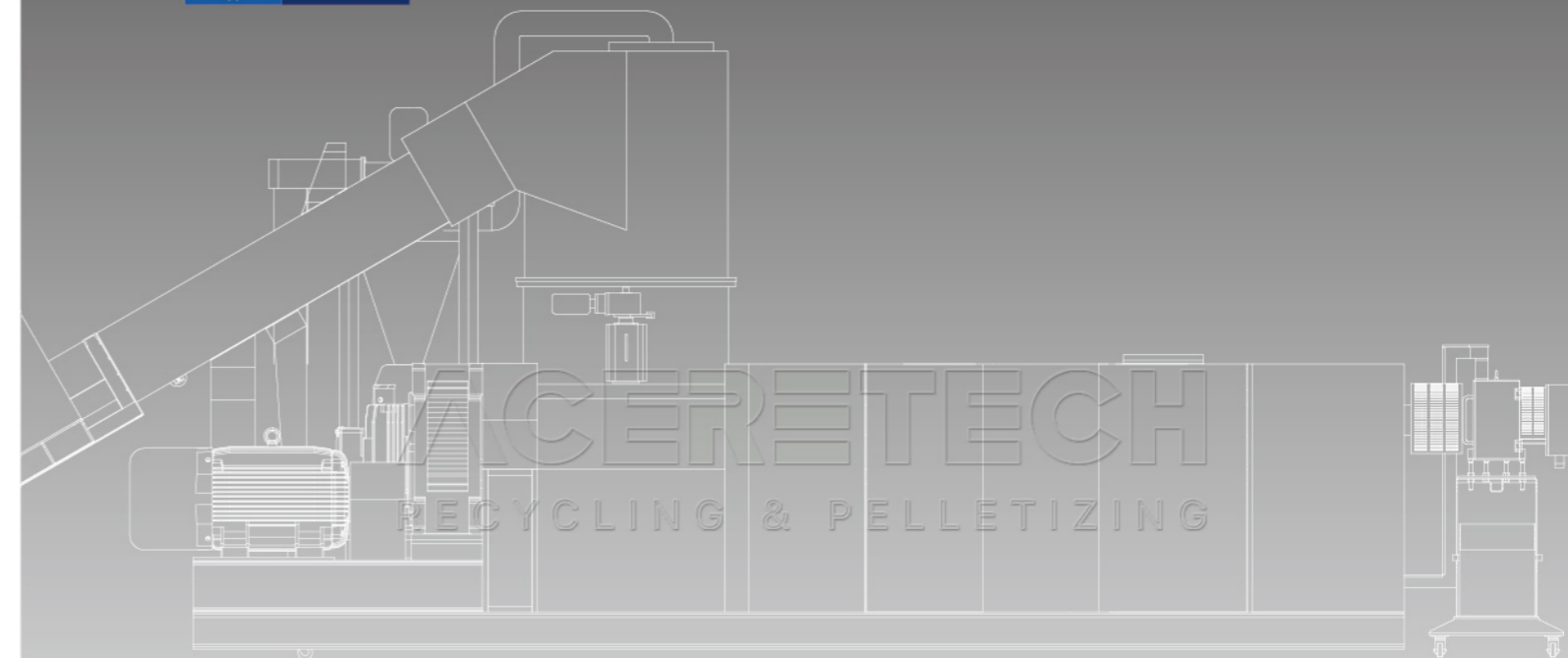
Machine Model	Compactor		Single screw extruder			Output (kg/h)
	Volume (Liter)	Motor power (KW)	Diameter of screw (mm)	L/D	Motor power (KW)	
ACS-H300/80	300	45	80	36	55	160-220
ACS-H500/100	500	75	100	36	110	300-380
ACS-H800/120	800	110	120	36	160	450-550
ACS-H1000/140	1000	132	140	36	200	600-700
ACS-H1200/160	1200	160	160	36	250	800-1000
ACS-H1600/180	1400	200	180	36	315	1000-1200

Machine Model		Screw diameter (mm)	L/D	Motor power (KW)	Output (kg/h)
ACSS-H80/120	ACS-H300/80	80	36	55	160-220
	ASE120	120	12	22	
ACSS-H100/120	ACS-H500/100	100	36	110	300-380
	ASE120	120	12	30	
ACSS-H120/150	ACS-H800/120	120	36	160	450-550
	ASE150	150	12	37	
ACSS-H140/150	ACS-H1000/140	140	36	200	600-700
	ASE150	150	12	45	
ACSS-H160/180	ACS-H1200/160	160	36	250	800-1000
	ASE180	180	12	55	
ACSS-H180/200	ACS-H1600/180	180	36	315	1000-1200
	ASE200	200	12	75	

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## ACS-H™ COMPACTING & PELLETIZING SYSTEM

- Size reduction, plasticization, pelletizing.
- **3 in 1** integrated recycling system.

ENGLISH

## ADVANCED PLASTIC RECYCLING TECHNOLOGY

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**ACERETECH®**  
RECYCLING & PELLETIZING



## Intelligent Control System

### One-button Start

According to built-in logical sequence and processing requirement, ACS-H™ pelletizing system could be started by one button "START", to avoid mistakes that may be caused by manual operation.

### One-button Stop

Stop the running machine could be realized by one button "STOP" owing to the modular design in PLC, to protect the system from damage caused by manual operation.

### Emergency Stop

Press the button "Emergency stop" when emergency happens.



## Protection system

### Life Safety Protection

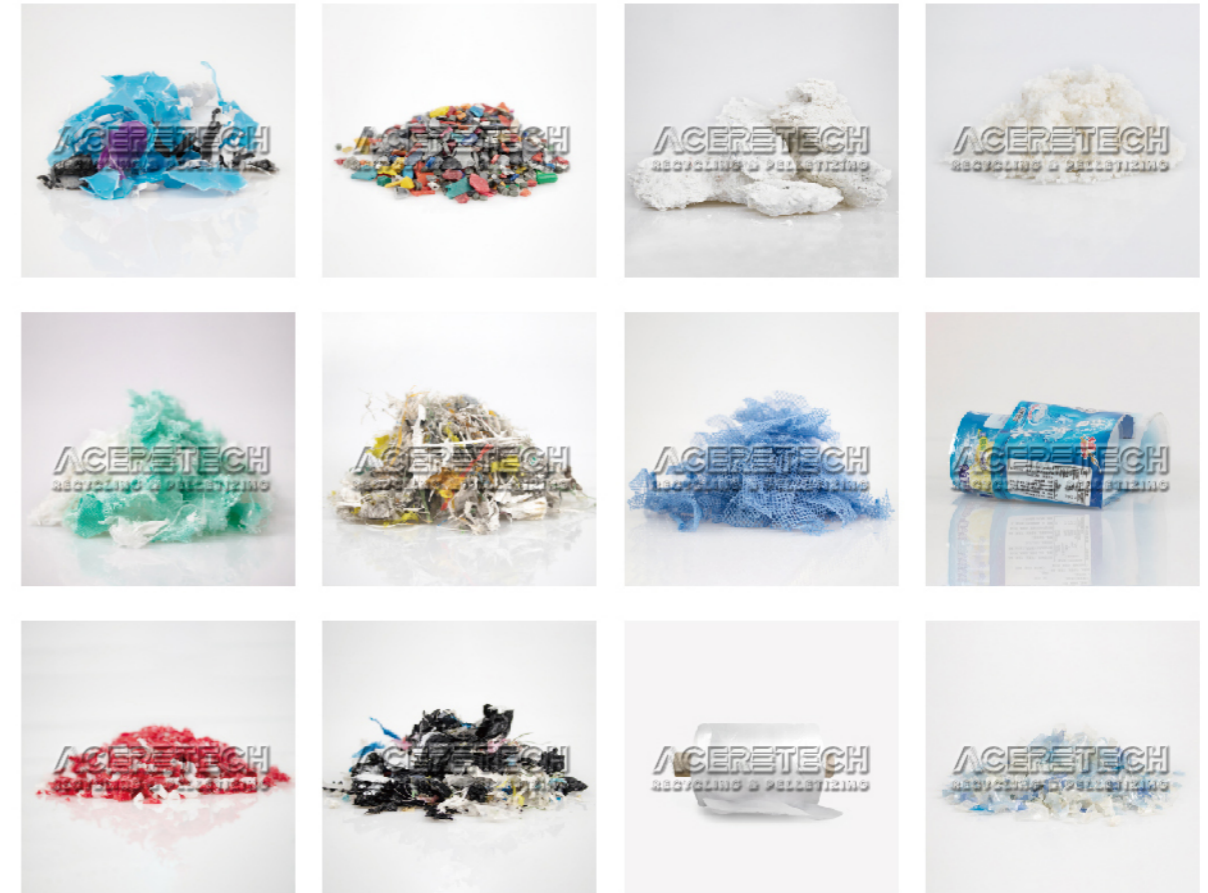
Every operation position and rotary part are equipped with limit switches for safety protection from possible danger or risk.

### Plastic Properties Protection

Precise temperature control, optimized plasticization design, ensure reliable quality of plastic granules.

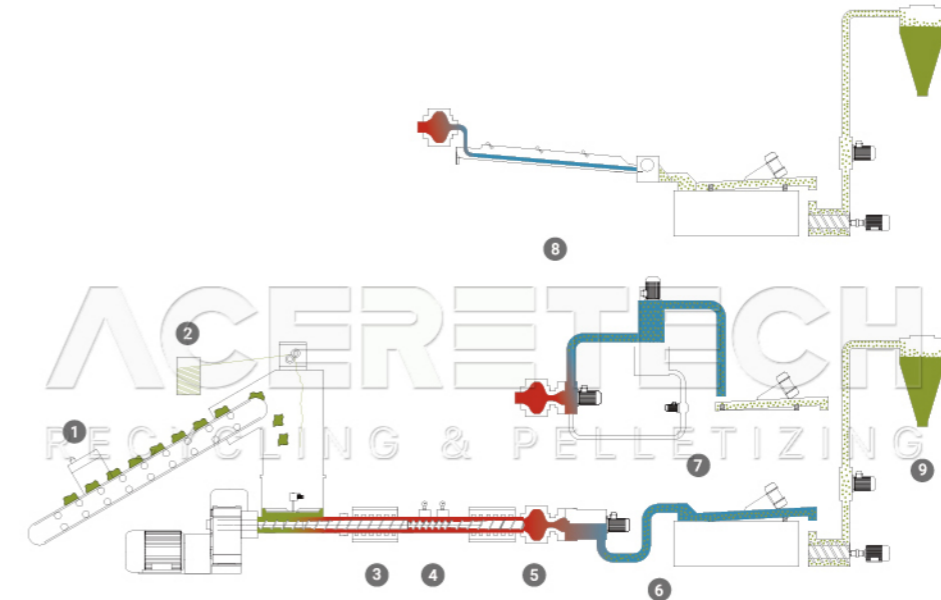
### Protection from over-heat in the compactor

With well understanding of characteristics of different plastic materials and modular design, ACS-H™ pelletizing machine optimizes size-reduction and pre-heating process in the compactor, avoids over-heating or degradation.



## ACS-H™ series of compacting pelletizing system

Combines size reduction, plasticization and pelletizing in an integrated system. Qualified for soft plastics as well as rigid flakes with innovative special design.



- 1 Belt conveyor
- 2 Hauling roller
- 3 Single-screw extruder
- 4 Vacuum degassing zones
- 5 Screen changer
- 6 Water-ring pelletizer
- 7 Under-water pelletizer
- 8 Automatic strand pelletizer
- 9 Storage silo



## Remote Control and Data Transmission

Controlling and Monitoring function in LAN net.



## Service and support

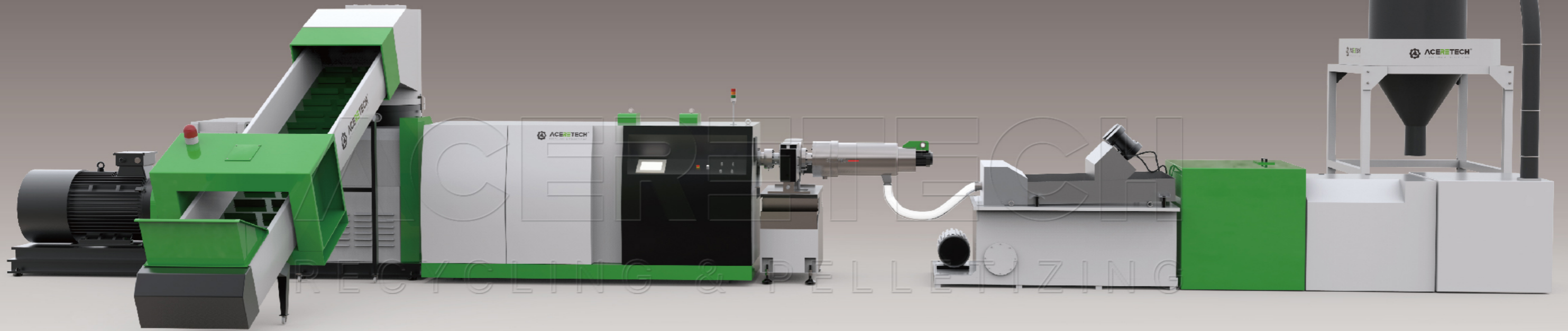
Experienced engineers are available for commissioning and training work in client's factory abroad. Spare parts are in stock for in-time delivery.

## Advantages of ACS-H™ compacting and pelletizing system

- ▶ Size reduction, pre-heating and pelletizing, 3 in 1 integrated system, less cost.
- ▶ More effective and stable system for plastics of low bulk density.
- ▶ Higher output and lower energy consumption.
- ▶ Lower investment for a higher performance machine.
- ▶ Standard production and management in the workshop.

# ACS-H™

## COMPACTING & PELLETIZING SYSTEM



### Feeding unit

Plastic materials such as film, filament, raffia, bags, non-woven are conveyed into the compactor by belt conveyor. Optional hauling roller for feeding film in rolls. Feeding speed is adjusted according to fullness in the compactor by inverter. Metal-detector is combined with belt conveyor, and interlocked in controlling system to stop the belt conveyor when it detected metal in feeding section.



### Compactor

Rotary blades on the knife-disk and fixed blades on the wall cut plastic material into small flakes. Heat which caused by high speed friction pre-heats and dries the flakes and make them shrink. Arc-shaped plates guide the material down and into the extruder under the centrifugal force of knife disk. This combined process of size-reduction, pre-heating and compacting enables stable and effective feeding for small bulk density plastics.



### Plasticization

Optimized 36 L/D Single-screw extruder gently plasticizes the agglomerates. With double vacuum degassing zones, volatile such as micro-molecules and moisture in the melt are exhausted to improve quality of granules, which is important for flexo-printed materials.



### Melt filtration

Choosing suitable screen changer depends on Application of pellets and content of impurities. Non-stop plate type, piston type, back-flush type are for options. Filtration area ranges from 254 cm<sup>2</sup> up to 3000 cm<sup>2</sup>.



### Water-ring pelletizer

Cutting speed is automatically adjusted according to melt pressure at the die head to ensure even granules. Pressure of blade onto the die is automatically adjusted to ensure uniform cutting force by high precision pressure sensor. Automatic strand pelletizer, Under-water pelletizer for option.



### Drying and Packing system

Advanced dewatering vibrasieve combined with horizontal centrifugal present high drying performance and low energy consumption.