



5G KCP Plus Series

Automatic Self-Cleaning Pelletizing System

PLASTIC RECYCLING SOLUTION





KITECH 5G KCP Plus series automatic self-cleaning pelletizing system is our latest upgraded pelletizing system. This system can handle more kinds of materials, with a wider range of use, a higher degree of automation, and more energy conservation and emission reduction. Compared with other similar pelletizing system, our throughput has increased by 50% and the energy consumption ratio has decreased by 20%. It greatly saves production costs for customers. 5G KCP Plus series pelletizing system is capable of processing a wide range of polymers (e.g. LDPE, LLDPE, HDPE, PP, CPP, BOPP, PS, EPS, XPS, ABS, POM, PA). It is the best choice for recycling users.



Feeding and compacting unit

- Conveyor, nip roller and master batch feeder, multi feeding system. Sliding gate designed to control the feeding amount from compactor to extruder.
- Material be cut, mixed and preheated in compactor and be feed into extruder by centrifugal force.
- Counter rotation compactor provide stable feeding for extruder, ensures stable output of extruder.



Extrusion unit

- Synchronous motor and driver, energy saving rate 8% – 12%.
- Intelligent heating system and intelligent temperature control system can save energy by 5%.
- Screw L/D ratio 50:1, The throughput has been greatly improved.
- Optimized vacuum degassing system ensures high effective venting of volatile.



Filtration unit

- The continuous self-cleaning filter is suitable for materials with high contamination.
- Double screens design with high throughput.
- It can use for long periods without changing the screen.
- Another filter can be installed at end of extruder to achieve two stage filtering.



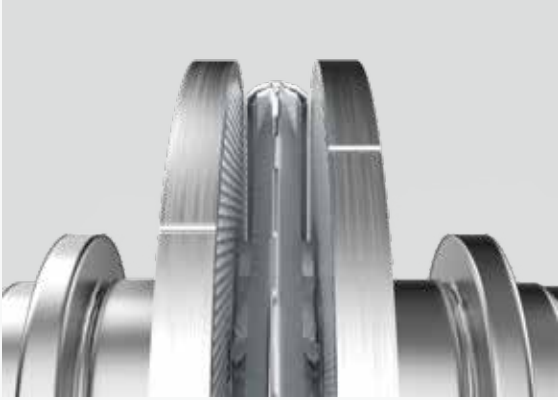
Pelletizing unit

- Water ring pelletizer, strand type pelletizer, automatic strand pelletizer and under water pelletizer, KITECH provides different types of pelletizing solutions. For different MFI polymers and different users.
- High quality and stable throughput pellets.



Intelligent control unit

- The DAS system supports data downloading and storage to help users achieve centralized monitoring of intelligent workshops.
- AMS provides protection procedures and maintenance videos to improve the service life of the machine.
- HMI intelligent operating system is easy to operate.
- The remote system supports remote diagnosis and provides mechanical, process and electrical integrated remote services.



Two-way scraping



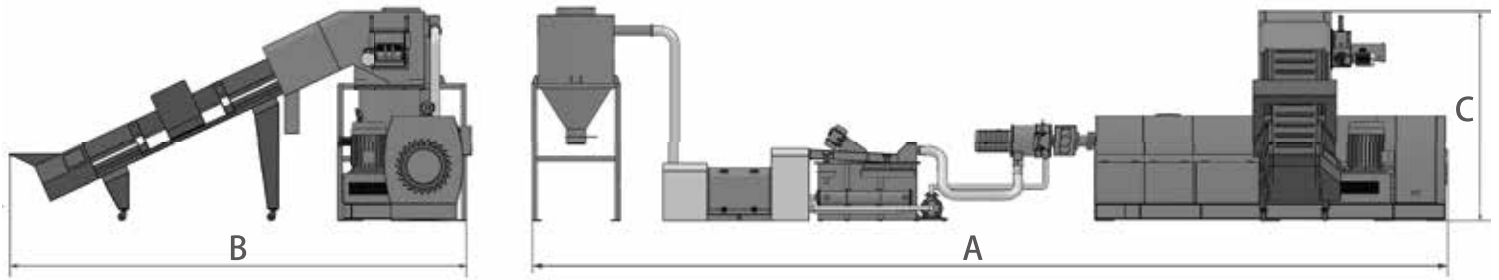
Laser filter



- Both sides discharge
- Continuously work on-line

Technical Data of Self-cleaning Filter:

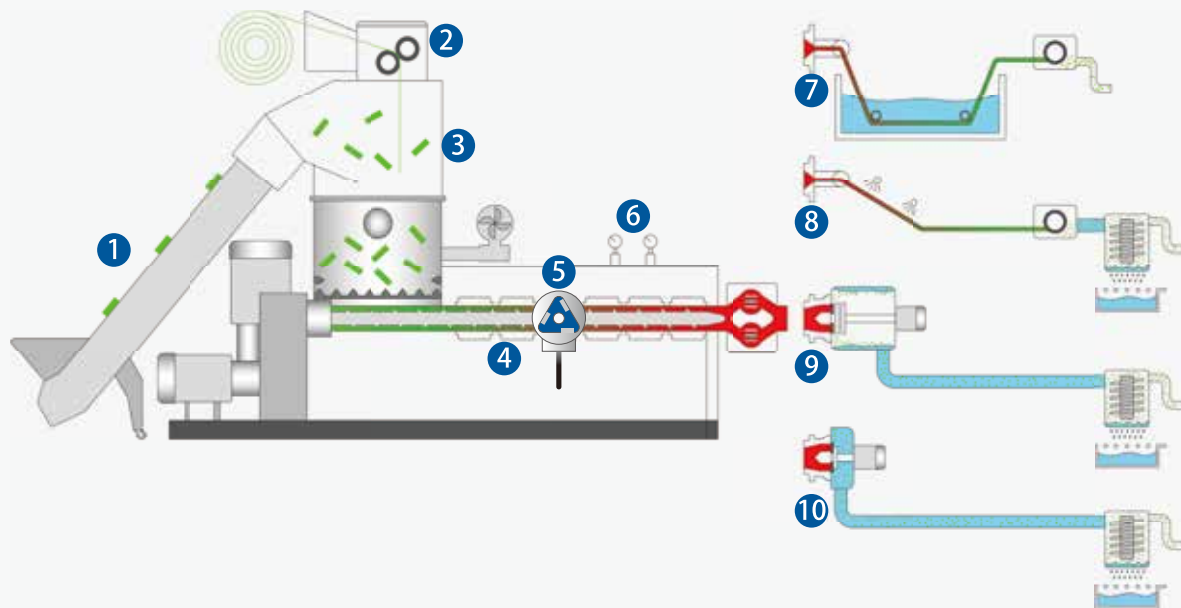
Type	KLF350	KLF500	KLF700
Filter diameter(mm)	350	500	700
Filter area(cm ²)	1850	3850	7500
Filter screen Qty.	2	2	2
Mesh sieves (μm/mesh)	100-800/20-150	100-600/30-150	100-600/30-150
Drive power(kW)	4	5.5	7.5
Heater power(kW)	30	50	80
Scraper working speed(rpm)	1-9	1-10	1-12
Throughput capacity(kg/h)	200-1000	1000-2500	2500-4000
Max. Working pressure (Mpa)	30	30	30
Applicable materials	LDPE, LLDPE, HDPE, PP, CPP, BOPP, PS, EPS, XPS, ABS, POM, PA		
Contaminants to be removed	metal, paper, cardboard, wood, glass, rubber, aluminum		



Type		5G KCP120 PLUS	5G KCP160 PLUS	5G KCP180 PLUS	5G KCP200 PLUS
Capacity (kg/h)		600–800	900–1300	1100–1500	1300–2000
Energy Consumption ratio (kWh/kg)		0.32	0.32	0.32	0.32
A/Length(mm)		13,080	17,040	17,320	18,340
B/Width(mm)		6450	6850	6850	7050
C/Height(mm)		3980	4460	4850	4850
Compactor	Volume	1000L	1400L	1600L	2000L
	Motor power (kW)	132	200	250	315
Extruder	Screw diameter	120	160	180	200
	L/D	50	50	50	50
	Motor power (kW)	200	355	400	500
Self-Cleaning filter	Mesh sieves (µm/mesh)	100–800/20–150	100–600/30–150	100–600/30–150	100–600/30–150
	Filter diameter(mm)	350x2	500x2	500x2	700x2
Down stream (options)	Water ring pelletizer	●	●	●	●
	Strand pelletizer	○	○	○	○
	Automatic strand pelletizer	○	○	○	○
	Under water pelletizer	○	○	○	○

● standard ○ alternative





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|---------------------------------|--------------------------------------|--------------------------------|
| 1 Belt conveyor | 2 Nip roller | 3 Compactor |
| 4 Extruder | 5 Filter | 6 Vacuum degassing |
| 7 Strand pelletizer | 8 Automatic strand pelletizer | 9 Water ring pelletizer |
| 10 Underwater pelletizer | | |

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