

PLASTIC WASTE RECYCLING PLANT



**WE SUPPORT
CIRCULAR ECONOMY**

RRPLAST  TM

Extrusionline Front Runner



LOW BULK DENSITY WASTE RECYCLING SINGLE STAGE VENTED DIRECT FEED PLASTIC RECYCLING PLANT

WITH STRAND PELLETIZER AND DIE FACE CUTTER

- Cutter compactor/Shredder technology
- Film/Woven sacks/Multi-layer film/ Mono-filament/Fiber etc
- Degassing for highly printed film waste
- LLDPE/HM/HD/PP/BOPP/PP/Stretch film/Cast film etc
- Recommended for low bulk-density scrap
- Low power consumption 0.3-0.4 kWh/kg (as per material)



RAFFIA SCRAP



PACKAGING FILM WASTE



FILM ROLL WASTE



LOW INVESTMENT COST
AGAINST HIGHER OUTPUT



LESS POWER CONSUMPTION



LESS MATERIAL HANDLING
LEADS TO LOW MATERIAL DEGRADATION



NO NEED OF AGGLOMERATION

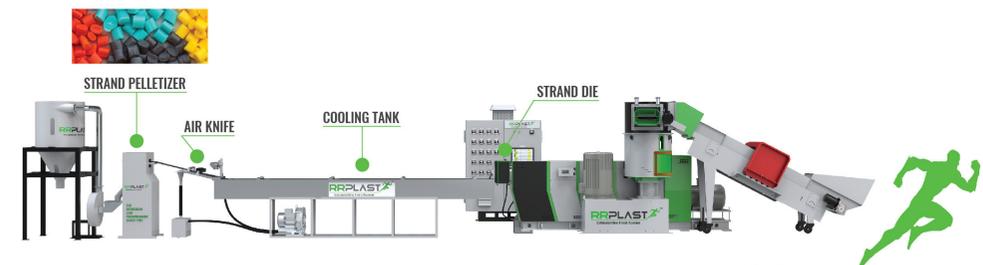


LESS MANPOWER REQUIREMENT

Main Technical Parameters

Model	Unit	RRRP 75/35V -C800-G500C	RRRP 90/35V -C800-G500C	RRRP 100/35V -C1100-G500C	RRRP 120/35V -C1100-G500C	RRRP 150/35V -C1250-G1000C	RRRP 180/35V -C1250-G1500C
LD - Output	Kg/h	200	300	400	550	800	1100
HD - Output	Kg/h	175	275	350	500	650	1000
PP - Output	Kg/h	150	250	300	450	600	900
Screw Dia	mm	75	90	100	120	150	180
Running Load	kW	82	109	145	193	243	304

Note: The specification are subjected to change without prior notice



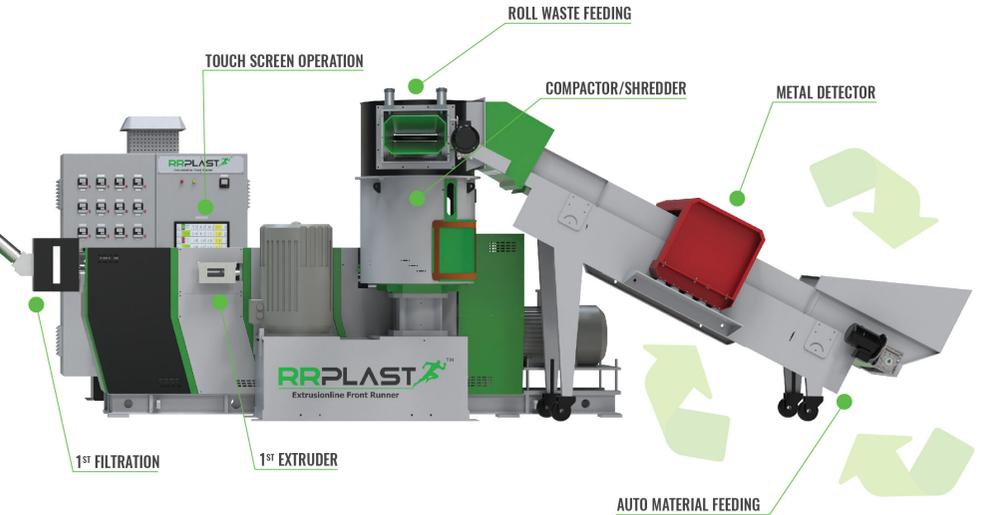
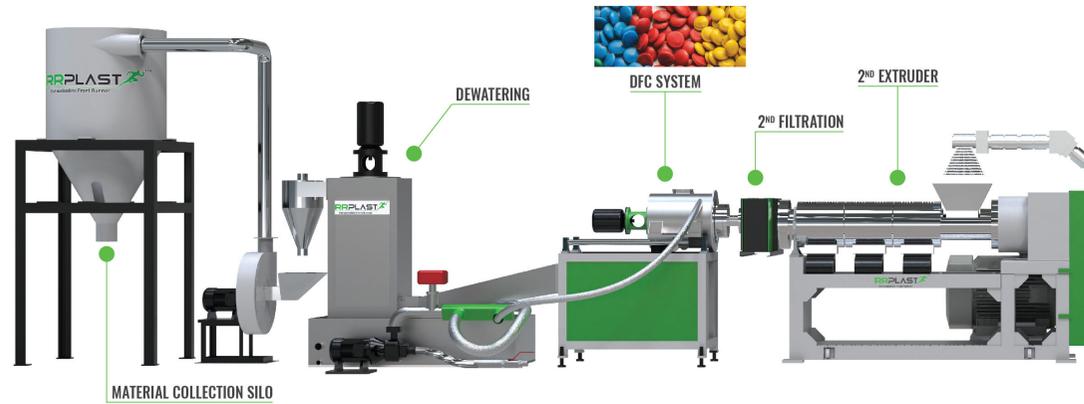
FILM WASTE RECYCLING TWO-STAGE VENTED DIRECT FEED PLASTIC RECYCLING PLANT

WITH STRAND PELLETIZER AND DIE FACE CUTTER

- Cutter compactor/Shredder technology
- Specially recommended for highly printed film waste.
- Also recommended for mixed material/metalized etc.
- Recommended for hygroscopic materials.
- Low power consumption 0.3-0.4 kWh/kg.

Superior Material Handling Efficiency

Direct feed system eliminates the need for pre-cutting or agglomeration, reducing manpower, energy usage, and process time.



High Output with Consistent Quality

The two-stage extrusion process with vented degassing ensures superior melt filtration, removing moisture and volatiles for high-purity, odor-free granules suitable for high-end applications.

Wide Material Compatibility

Efficiently processes a range of materials like LDPE, LLDPE, HDPE, PP film, woven sack, raffia, and foamed plastics, even with high ink or moisture content

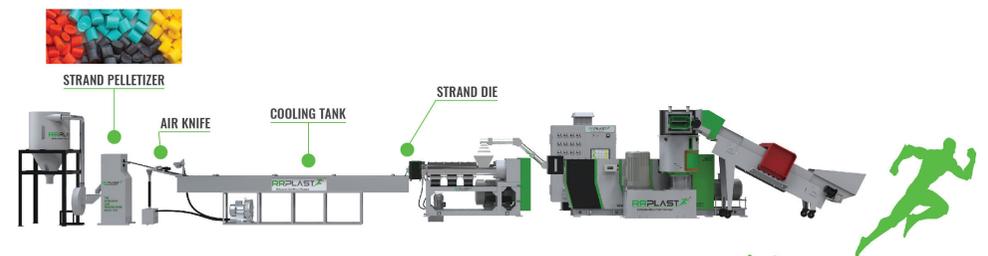
Energy-Efficient & Cost Saving

Advanced venting, optimized screw design, and direct feeding lead to lower power consumption per kg of recycled output, maximizing profitability.

Main Technical Parameters

Model	Unit	RRRP 75/35V-100 /10-C800-G500C	RRRP 90/35V-100 /10-C800-G500C	RRRP 100/35V-100 /10-C1100-G500C	RRRP 120/35V-120 /10-C1100-G500C	RRRP 150/35V-150 /10-C1250-G1000C	RRRP 180/35V-180 /10-C1250-G1500C
LD - Output	Kg/h	200	300	400	550	800	1100
HD - Output	Kg/h	175	275	350	500	650	1000
PP - Output	Kg/h	150	250	300	450	600	900
Screw Dia	mm	75	90	100	120	150	180
Running Load	kW	100	128	170	236	275	370

Note: The specification are subjected to change without prior notice



RIGID PLASTIC ARTICLE WASTE RECYCLING SINGLE STAGE VENTED RECYCLING PLANT

WITH STRAND PELLETIZER AND DIE FACE CUTTER

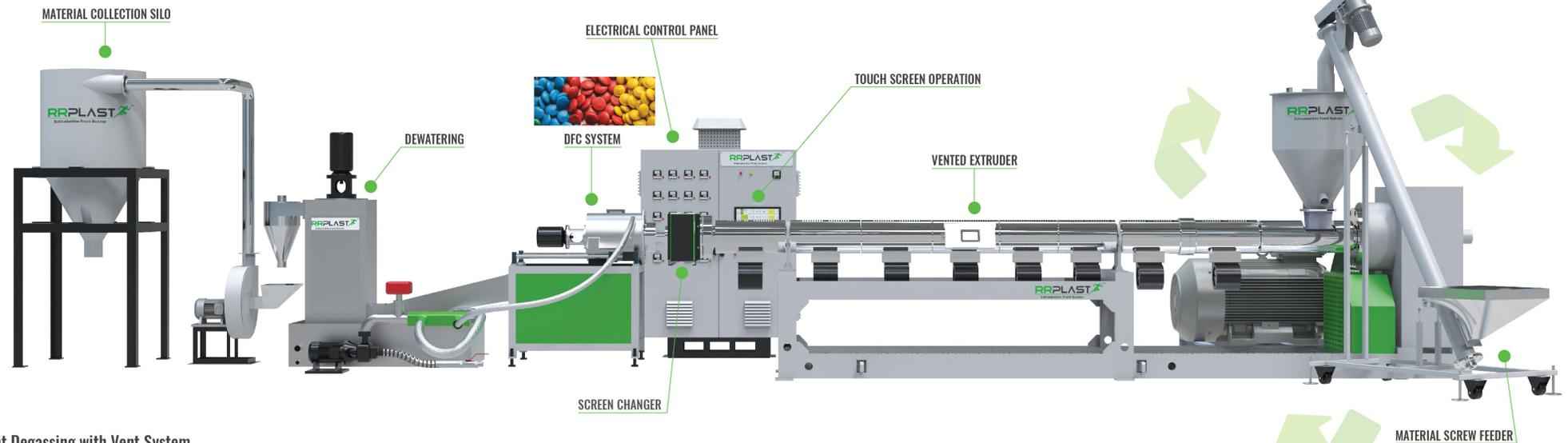
- Solid waste recycling plant
- Recommended for article waste (Injection moulding/Blow moulding/Pipe)
- Agglomerated film waste
- In-house all types of waste
- Eliminate preheating of scrap



LD/HD/PP SCRAP

BLUE DRUM SCRAP/
FINISHED GRANULES

HDPE/DRIP IRRIGATION
PIPE WASTE



Efficient Degassing with Vent System

Built-in vented degassing removes moisture, ink fumes, and light volatiles—improving pellet quality, especially for printed or washed film waste.

Consistent Granule Output

Ensures uniform pellet size and excellent flow properties, making the recycled granules suitable for reuse in blown film, injection molding, or compounding.

Main Technical Parameters

Model	Unit	RRRP 75/35V -G500C	RRRP 90/35V -G500C	RRRP 100/35V -G500C	RRRP 120/35V -G500C	RRRP 150/35V -G1000C	RRRP 180/35V -G1500C
Article Waste (LD,HD,PP)	Kg/h	120-140	180-200	220-240	350-375	525-550	900-1000
HIPS/ABS	Kg/h	150-160	220-240	270-300	430-450	650-675	1200-1300
Screw Dia	mm	75	90	100	120	150	180
Running Load	kW	47	60	69	103	146	218

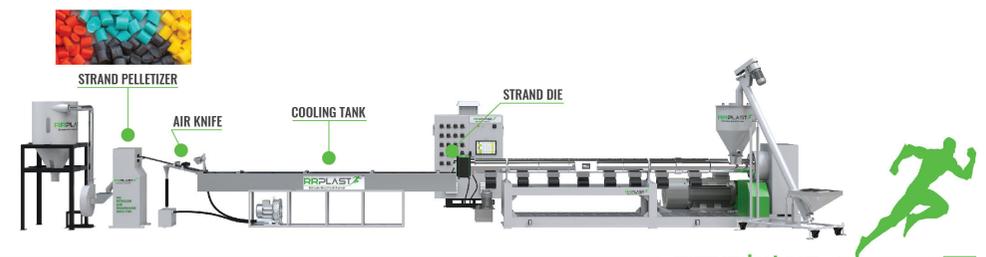
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Cost-Effective Recycling Solution

The single-stage design reduces overall machinery cost, installation complexity, and power consumption—making it ideal for budget-conscious recyclers.

Energy Efficient Extrusion

Optimized screw and barrel design ensures low specific energy consumption (kWh/kg)—translating into lower electricity bills per ton of output. Reduce the use of mixer for initial heating



RIGID PLASTIC WASTE RECYCLING TWO-STAGE VENTED RECYCLING PLANT

WITH STRAND PELLETIZER AND DIE FACE CUTTER

● **Solid article waste recycling plant**

- HDPE waste to granules for HD pipe industry
- Drip (flat/round) pipe waste to granules for Drip irrigation pipe
- Hygroscopic material like HIPS/ABS/PS/PC/PMMA/Nylon/GA etc is especially recommended
- Foam material (EPS/ROTO foam/LD-foam)
- Highly printed plastic waste (agglomerated)
- Mixed material like PET bottle caps etc
- Available with strand pelletizer and DFC system
- PET bottle cap recycling



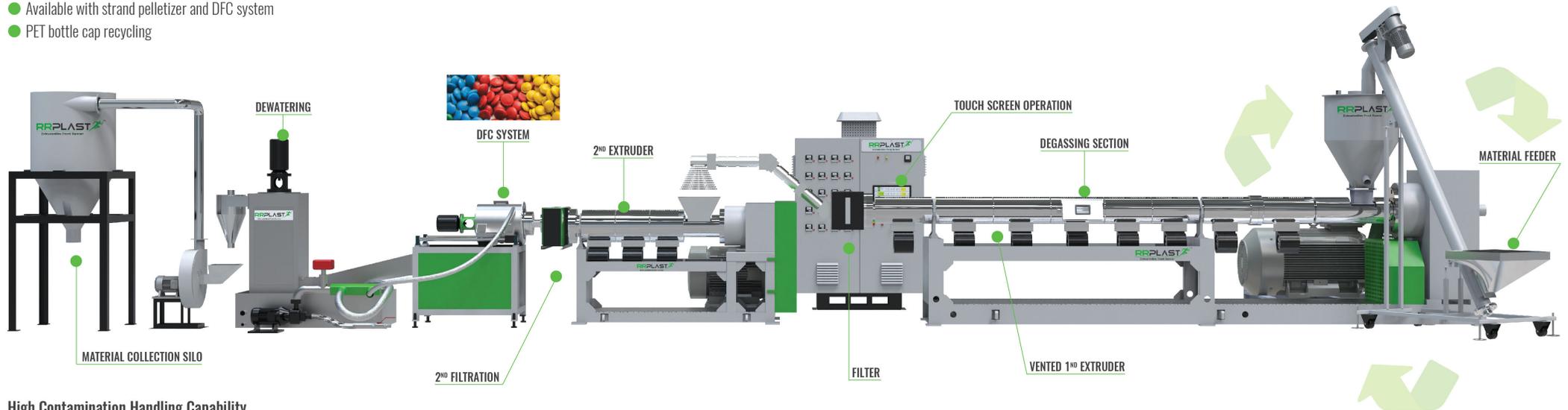
PIPE WASTE/BLOW MOULDED
BLUE DRUM SCRAP



ABS/HIPS BATTERY/AC SCRAP



PP BOTTLE CAP WASTE



High Contamination Handling Capability

Specifically designed to process heavily printed, high-moisture, or multilayer article waste, offering reliable performance where single-stage systems fall short.

Integrated Degassing & Filtration

Equipped with venting systems and advanced melt filtration, ensuring cleaner, contamination-free granules with improved downstream processing performance.

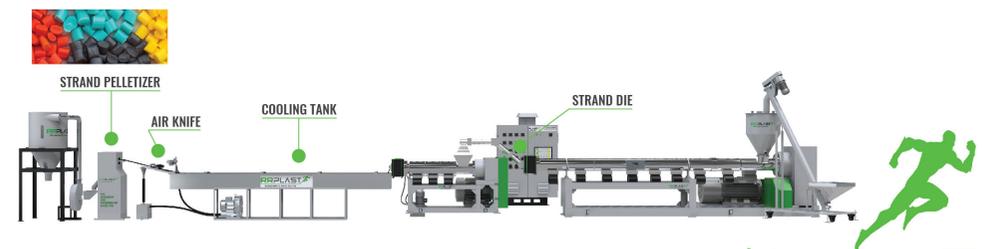
Main Technical Parameters

Model	Unit	RRRP 75/35V -75/100-G500C	RRRP 90/35V -100/10-G500C	RRRP 100/35V -100/10-G500C	RRRP 120/35V -120/10-G500C	RRRP 150/35V -150/10-G1000C	RRRP 180/35V -180/10-G1500C
Article Waste (LD,HD,PP)	Kg/h	120-140	180-200	220-240	350-375	525-550	900-1000
HIPS/ABS	Kg/h	150-160	220-240	270-300	430-450	650-675	1200-1300
Screw Dia	mm	75	90	100	120	150	180
Running Load	kW	63	78	92	133	190	218

Note: The specification are subjected to change without prior notice

Energy Efficient Despite High Capacity

Advanced screw design and optimized thermal control result in low energy consumption per kg, even at high outputs.



R-PVC/S-PVC RECYCLING/COMPOUNDING PLANT

WITH AIR COOLED DIE FACE CUTTER

Specialized for Rigid & Flexible PVC

Engineered to handle a wide range of PVC waste—including pipes, profiles, injection moulded article, cable scrap, medical PVC, and films—with consistent and reliable output.

Dust-Free & Thermal-Stable Granulation

Advanced extrusion and cooling systems ensure thermal stability, avoiding PVC degradation and eliminating acidic fume generation or color shifts during recycling.



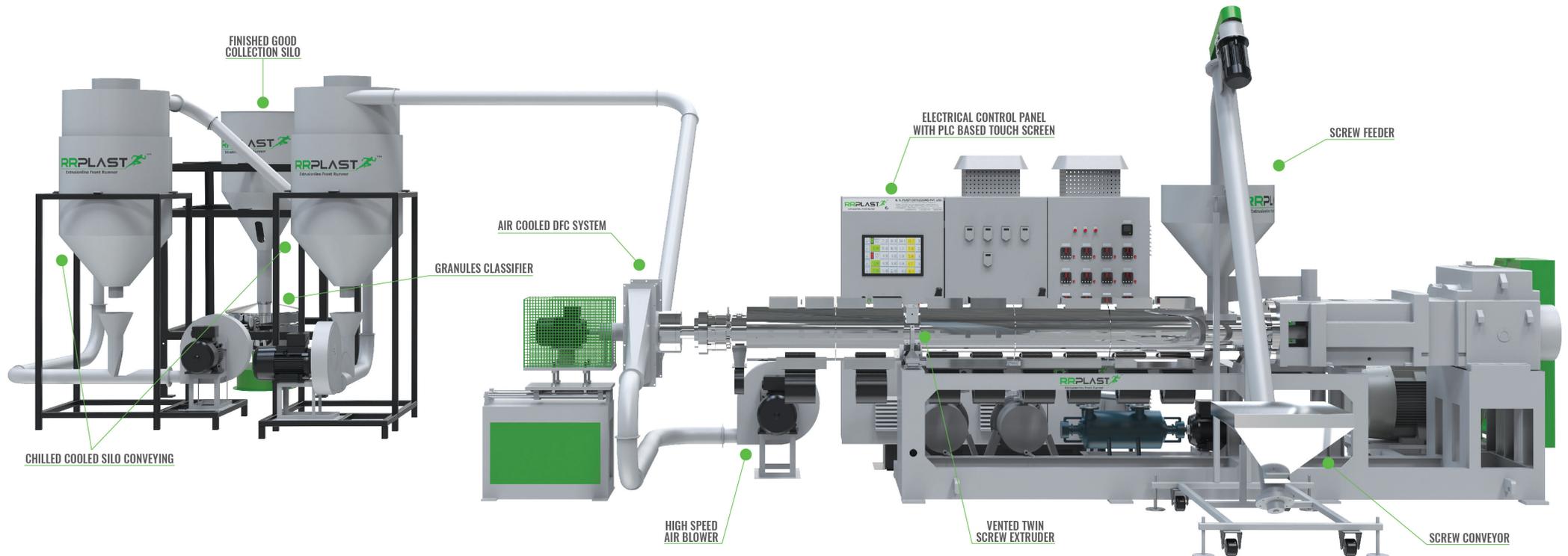
R-PVC INJECTION MOULDING
/R-PVC WIRES & CABLES



PVC DRY BLEND
OR PULVERIZED POWDER



RECYCLED PVC GRANULES



Main Technical Parameters

Model	Unit	65/25V - A300C	92/25V - A600C	110/25V - A1000C
R-PVC Output	Kg/h	250	500-600	1000-1100
S-PVC Output	Kg/h	300	600-650	1200-1250
Screw Dia	mm	65 Twin	92 Twin	110 Twin
Running Load	kW	35	66	148

Note: The specification are subjected to change without prior notice

Easy Integration with Compounding Lines

Output granules can be directly used in compounding lines for pipes, profiles, or injection molded products, offering a seamless workflow in manufacturing.

High Output with Low Shear Technology

Low shear screw design ensures gentle processing of temperature-sensitive PVC, minimizing degradation and maximizing throughput with uniform granule output.

Energy-Efficient Extrusion Process

Optimized heating zones and motor systems deliver high output per kWh, reducing production costs and environmental impact.



PET BOTTLE WASTE RECYCLING R-PET RECYCLING MACHINE WITH UNDERWATER STRAND PELLETIZER

- Recommended for all types of PET/Nylon/PP fiber waste.
- Waste in the form of fiber/powder/lumps.
- Low IV drop.
- Processing with crystallizer or without crystallizer.

High-Efficiency Decontamination

Advanced vacuum degassing, filtration, and melt purification systems effectively remove moisture, inks, adhesives, and contaminants ideal for closed-loop recycling.



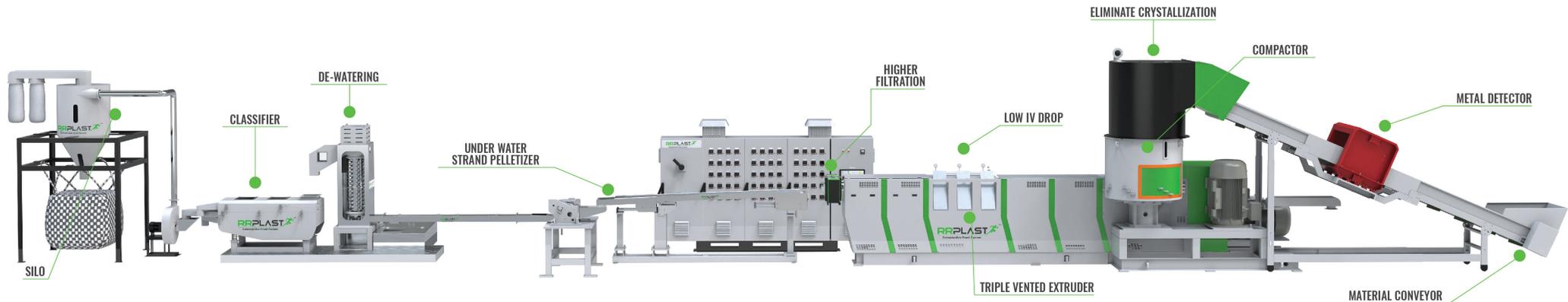
PET BOTTLE FLAKES



PET FIBER



R-PET GRANULES



Main Technical Parameters

Model	Unit	90/45V3-C80	100/45V3-C110	120/45V3-C125	120/45V3-C125
Bottle Flakes		Yes	Yes	Yes	Yes
PET Fiber		Yes	Yes	Yes	Yes
PET Powder		Yes	Yes	Yes	Yes
Output	Kg/h	300-400	450-550	700-800	900-1000
Vented Extruder		90/45V3	100/45V3	120/45V3	120/45V3
Motor	kW	55	75	132	160
Compactor	Ø-kW	800-75	1100-90	1250-132	1250-132
Screen Changer Double Piston Wrap Type	cm ²	RRUWP-1100	RRUWP-1100	RRUWP-2000	RRUWP-2000
Power	kW	180	200	300	330

Note: The specification are subjected to change without prior notice

Uniform IV (Intrinsic Viscosity) Control

Precise temperature and vacuum systems maintain or restore IV levels, ensuring consistent melt strength and quality for downstream processing like granulation.

High Throughput, Low Energy Consumption

Efficient screw design and optimized heating zones deliver higher output per kWh, maximizing productivity and minimizing energy bills.



COMPACTOR CUM CRYSTALLIZER



UNDERWATER STRAND PELLETIZING



CRYSTALLIZER



ROTO-PE COLORING GRANULATION PLANT

WITH STRAND PELLETIZER AND DIE FACE CUTTER

- Better dispersion of Carbon black/Color Masterbatch.
- Barrier screw design with mixing zone.
- Auto loading/Auto MB dozing/Auto granules collection.
- One-man operation.
- Consistent granule size improves pulverizing efficiency.
- Available in strand pelletizing type also.



PLANTER/FLOATING DOCK



TOYS/ROAD BARRIER



ROTO TANK



MATERIAL COLLECTION SILO

ROUND GRANULES

LESS MANPOWER

Specialized for Rotomoulding Grade PE

Designed specifically to produce free-flowing, micro-uniform granules suitable for pulverizing into roto-grade powder—ensuring smooth mold flow and even wall thickness in finished parts.

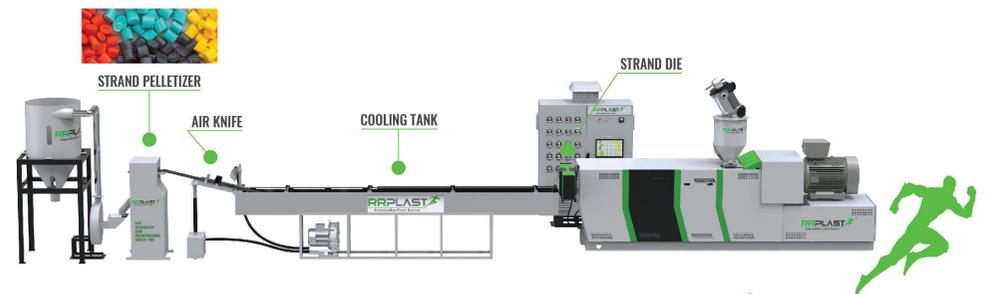
Main Technical Parameters

Model	Unit	RRCP 45/33 -G500C	RRCP 65/33 -G500C	RRCP 75/33 -G500C	RRCP 90/33 -G1000C	RRCP 120/33 -G1000C
LLDPE 4 MFI	Kg/h	180-200	380-400	500-550	750-800	1000-1200
Screw Dia	∅	45/33	65/33	75/33	90/33	120/33
Running Load	kW	45	75	102	138	192

Note: The specification are subjected to change without prior notice

Excellent Color Dispersion

Equipped with advanced barrier screw with mixing zones in screw that ensure homogeneous color masterbatch blending, ideal for custom-colored PE granules for tanks, containers, toys, and more.



ADDITIONAL FEATURES

SCREW TYPE HOPPER LOADER



CONTINUOUS WRAP TYPE SCREEN CHANGER



Higher filtration area for highly contaminated waste

BLOWER SILO



VIBRO GRANULES CLASSIFIER



FILM AGGLOMERATOR



PLASTIC WASTE SCRAP GRINDER



Machine Selection Criteria:-

Material

- | | | |
|--|---|---|
| <input type="checkbox"/> Film scrap | <input type="checkbox"/> Film-on-Roll | <input type="checkbox"/> Bag scrap (Cut-off Waste) |
| <input type="checkbox"/> Laminate/
Multi-layered film | <input type="checkbox"/> Metalized film | <input type="checkbox"/> Washed film flakes (Post-Consumer) |
| <input type="checkbox"/> Woven Bag/Sack/
Raffia/Tape | <input type="checkbox"/> Regrind (Hard Plastic) | <input type="checkbox"/> Pipe |
| <input type="checkbox"/> Milk Bottle | <input type="checkbox"/> Container | <input type="checkbox"/> Automotive |
| <input type="checkbox"/> Electronic Waste | <input type="checkbox"/> Metalized film | <input type="checkbox"/> Washed Film Flakes (Post-Consumer) |
| <input type="checkbox"/> Woven Bag/Sack/
Raffia/Tape | <input type="checkbox"/> Cosmetic Tube | <input type="checkbox"/> Soft Irrigation Pipe |
| <input type="checkbox"/> Bubble Wrap | <input type="checkbox"/> Foam | <input type="checkbox"/> Fiber |
| <input type="checkbox"/> Others | | |

Material Type

- | | | |
|--|-------------------------------|--------------------------------|
| <input type="checkbox"/> LDPE | <input type="checkbox"/> HDPE | <input type="checkbox"/> LLDPE |
| <input type="checkbox"/> HD/LD/LLD Mix | <input type="checkbox"/> PP | <input type="checkbox"/> BOPP |
| <input type="checkbox"/> CPP | <input type="checkbox"/> PS | <input type="checkbox"/> ABS |

Output

- | | | |
|---------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> 100-200 kg/h | <input type="checkbox"/> 200-300 kg/h | <input type="checkbox"/> 300-400 kg/h |
| <input type="checkbox"/> 400-600 kg/h | <input type="checkbox"/> 700-800 kg/h | <input type="checkbox"/> 1000-1200 kg/h |

Material Source

- | | |
|--|--|
| <input type="checkbox"/> Own Factory Waste
(In-house/Post-industrial) | <input type="checkbox"/> Post-Industrial Waste
(Collected from other Factories) |
| <input type="checkbox"/> Post-Consumer Waste
(Already Washed and Dried) | <input type="checkbox"/> Post-Consumer Waste
(No Washing) |

Printing

- | | |
|---|--|
| <input type="checkbox"/> No print or less than 10% | <input type="checkbox"/> Printed up to 40% |
| <input type="checkbox"/> Heavily printed 50% ~ 100% | |

Filtration

- | | | |
|-------------------------------------|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> 80-40 mesh | <input type="checkbox"/> 60-80 mesh | <input type="checkbox"/> 100-120 mesh |
|-------------------------------------|-------------------------------------|---------------------------------------|

Note: Select each criteria and email us at info@rrplast.com



YOUR PLASTIC WASTE & OUR RECYCLING SOLUTION

POLYETHYLENE TEREPHTHALATE (PET)



POLYPROPYLENE (PP)



HIGH-DENSITY POLYETHYLENE (HDPE)



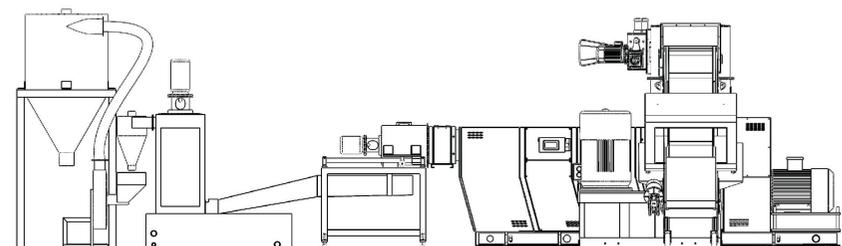
LOW-DENSITY POLYETHYLENE (LDPE)



POLYVINYL CHLORIDE (R-PVC, S-PVC)



OTHERS



INDIAN AT HEART - GLOBAL IN SPIRIT

EXPORT TO MORE THAN 78 COUNTRIES

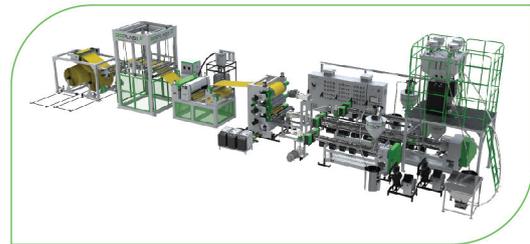


24,000 m² STATE OF THE ART FACTORY AT ASANGAON, THANE, INDIA 

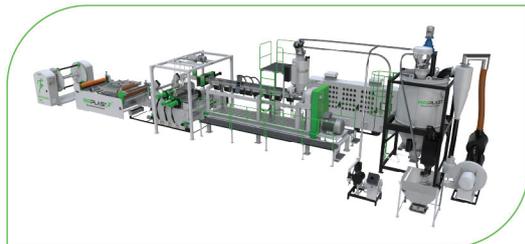
OTHER PRODUCT RANGE OFFERED BY RR PLAST EXTRUSIONS:-



FLAT/ROUND DRIP IRRIGATION PLANT



PP, PS SHEET LINE



PET, PLA SHEET LINE



MULTISTATION PRESSURE FORMING MACHINE

RRPLASTTM
Extrusionline Front Runner

44
YEARS OF INNOVATION

R.R. Plast Extrusions Pvt. Ltd.

Manufacturer & Exporter of Plastic Extrusion Machinery & Equipment

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