PLASTIC WASTE RECYCLING PLANT

WE SUPPORT CIRCULAR ECONOMY

RRPLAST™

Extrusionline Front Runner

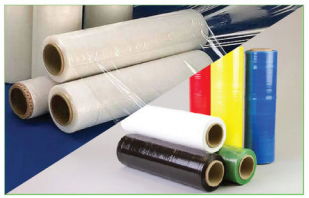
LOW BULK DENSITY WASTE RECYCLING SINGLE STAGE VENTED DIRECT FEED PLASTIC RECYCLING PLANT

WITH STRAND PELLETIZER AND DIE FACE CUTTER

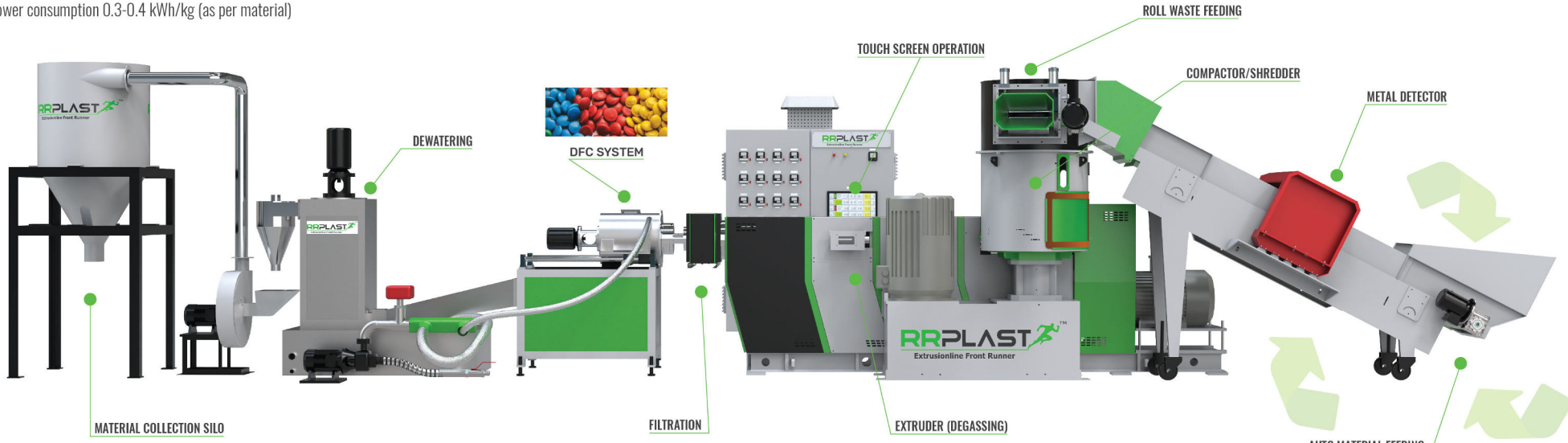
- Cutter compactor/Shredder technology
- Film/Woven sacks/Multi-layer film/ Mono-filament/Fiber etc
- Degassing for highly printed film waste
- LLDPE/HM/HD/PP/BOPP/CPP/Stretch film/Cast film etc
- Recommended for low bulk-density scrap
- Low power consumption 0.3-0.4 kWh/kg (as per material)

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

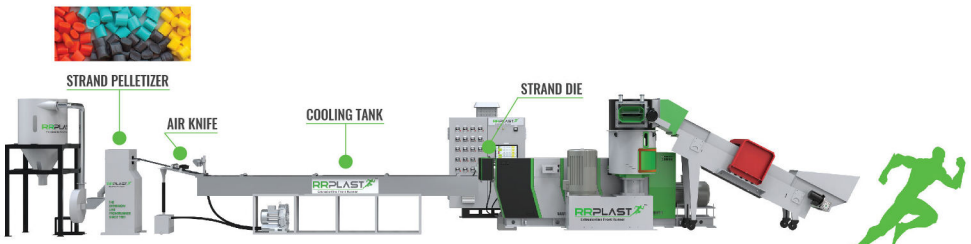
NO NEED OF AGGLOMERATION

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



RRPLAST™
Extrusionline Front Runner

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

WITH STRAND PELLETIZER AND DIE FACE CUTTER

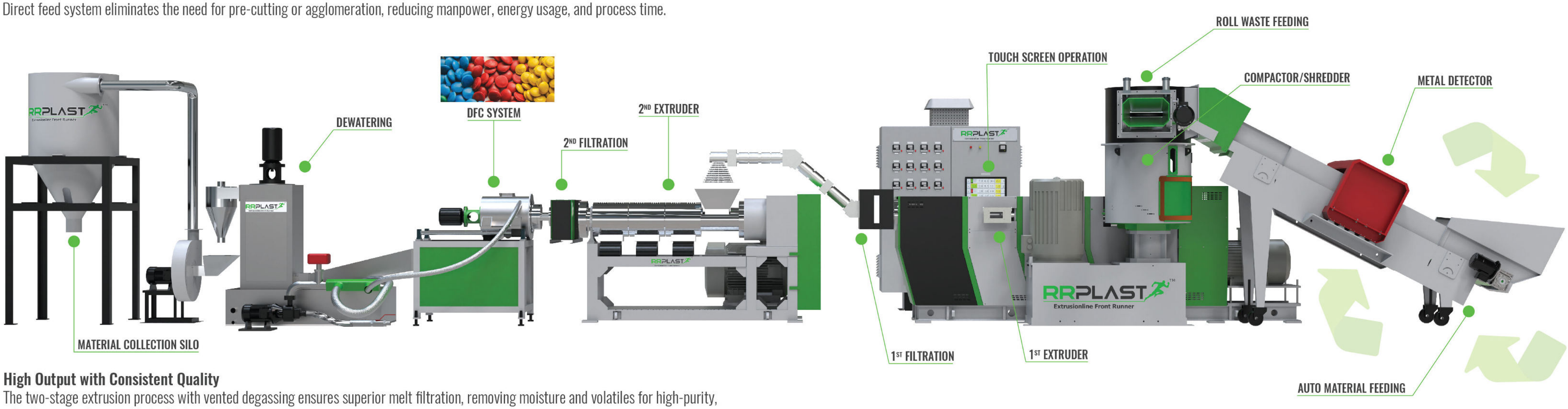
- Cutter compactor/Shredder technology
- Specially recommended for highly printed film waste.
- Also recommended for mixed material/metalized etc.
- Recommended for hygroscopic materials.
- Low power consumption 0.3-0.4 kWh/kg.

RAFFIA SCRAP

PACKAGING FILM WASTE

WRAPPER WASTE

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.

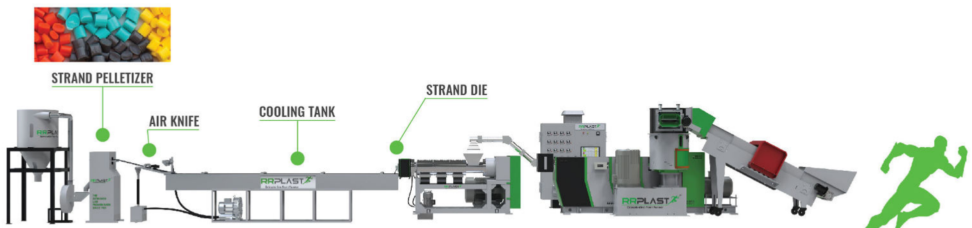
Wide Material Compatibility
Efficiently processes a range of materials like LDPE, LLDPE, HDPE, PP film, woven sack, raffia, and foamed plastics, even with high ink or moisture content

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



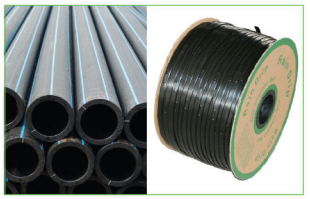
RIGID PLASTIC ARTICLE WASTE RECYCLING SINGLE STAGE VENTED RECYCLING PLANT

WITH STRAND PELLETIZER AND DIE FACE CUTTER

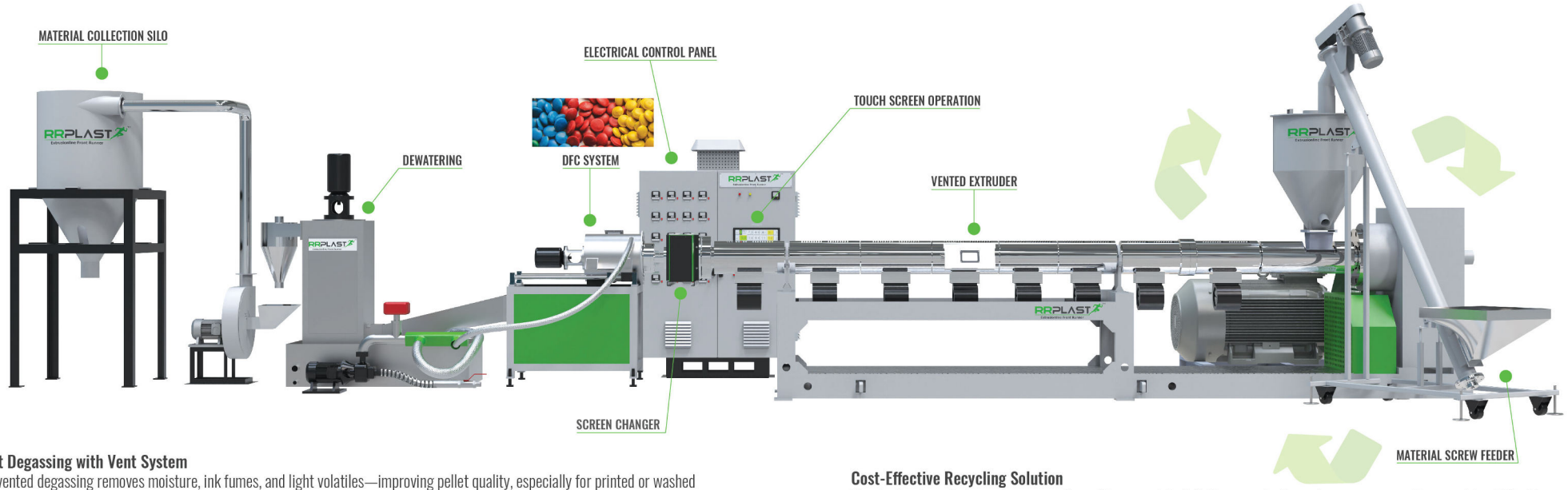
- **Solid waste recycling plant**
- Recommended for article waste (Injection moulding/Blow moulding/Pipe)
- Agglomerated film waste
- In-house all types of waste
- Eliminate preheating of scrap

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

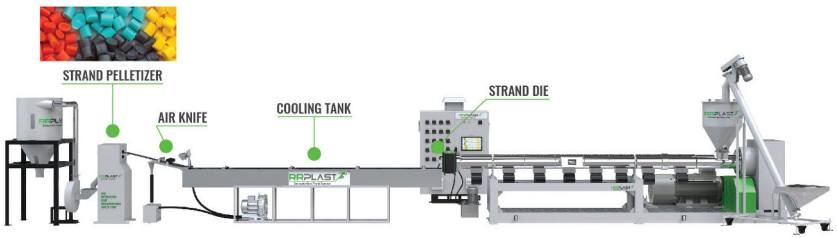
Note: The specification are subjected to change without prior notice

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

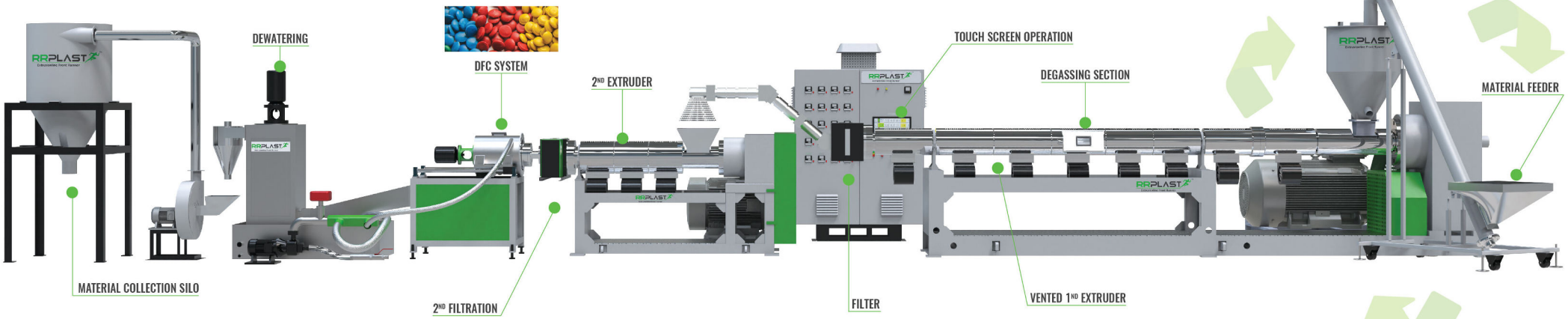
WITH STRAND PELLETIZER AND DIE FACE CUTTER

- **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/CA 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.

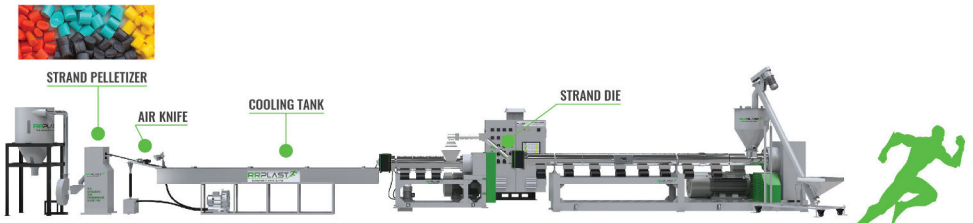
Main Technical Parameters

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

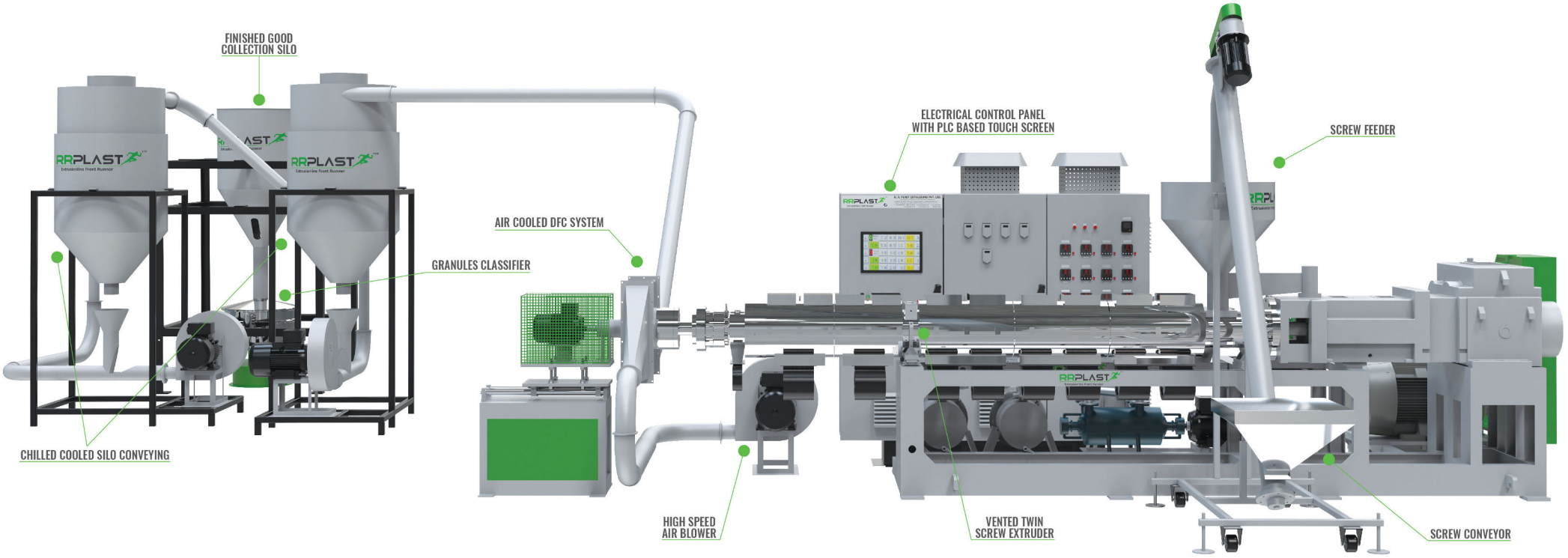
Specialized for Rigid & Flexible PVC
Engineered to handle a wide range of PVC waste—including pipes, profiles, injection moulded article, cable scrap, medical PVC, and films—with consistent and reliable output.

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.

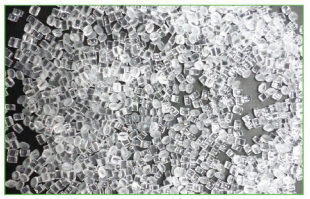
Energy-Efficient Extrusion Process
Optimized heating zones and motor systems deliver high output per kWh, reducing production costs and environmental impact.

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

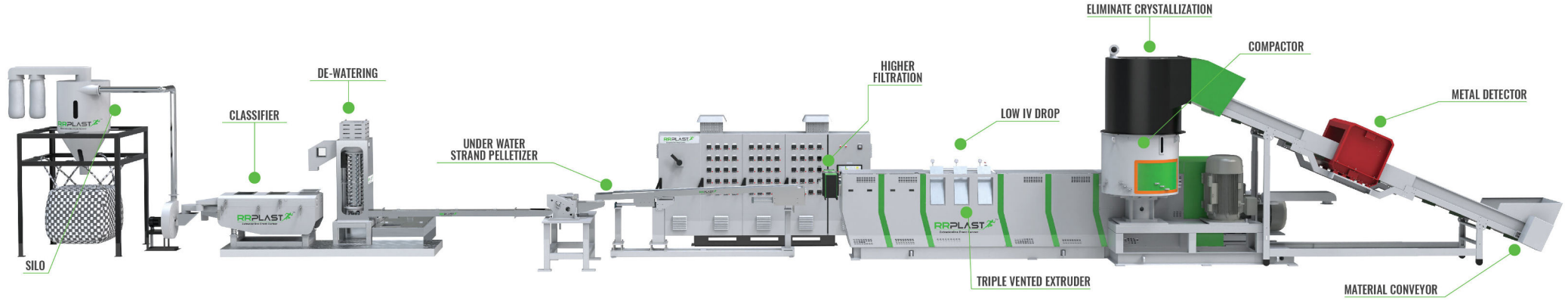
- Recommended for all types of PET/Nylon/PP fiber waste.
- Waste in the form of fiber/powder/lumps.
- Low IV drop.
- Processing with crystallizer or without crystallizer.


PET BOTTLE FLAKES


PET FIBER


R-PET GRANULES

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



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.

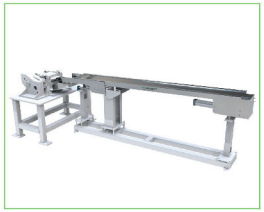
High Throughput, Low Energy Consumption
Efficient screw design and optimized heating zones deliver higher output per kWh, maximizing productivity and minimizing energy bills.

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


COMPACTOR CUM CRYSTALLIZER

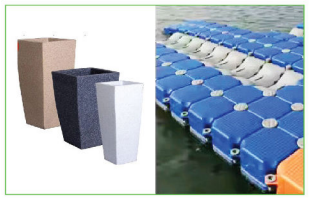

UNDERWATER STRAND PELLETIZING


CRYSTALLIZER

ROTO-PE COLORING GRANULATION PLANT

WITH STRAND PELLETIZER AND DIE FACE CUTTER

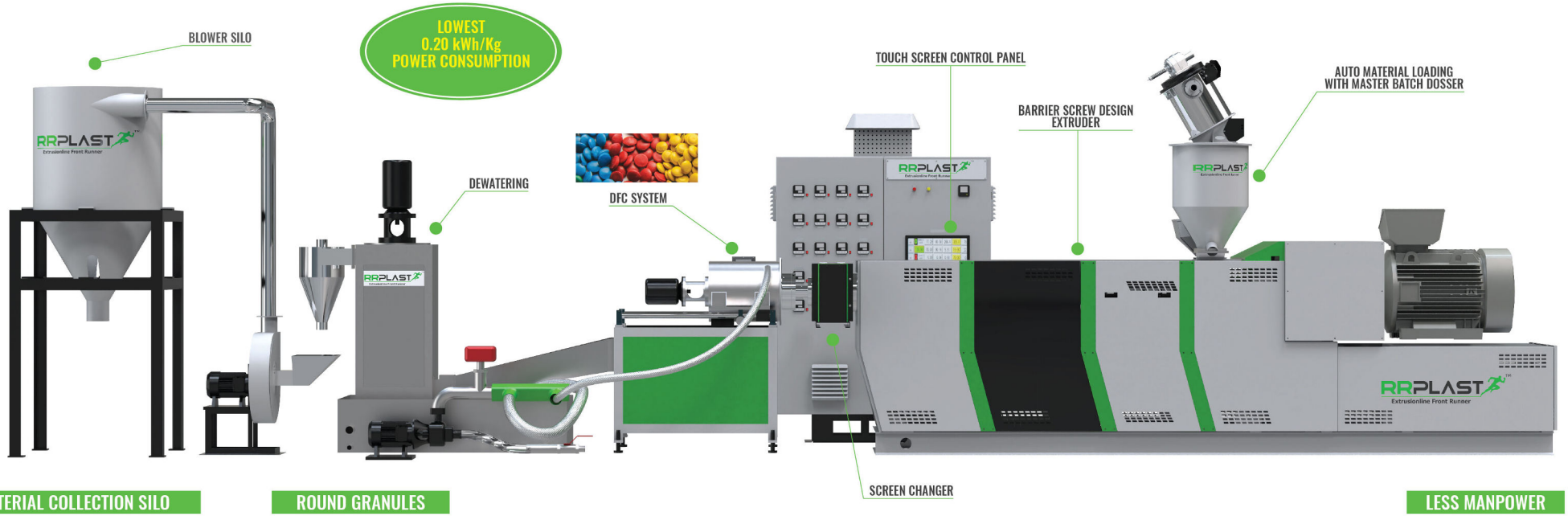
- Better dispersion of Carbon black/Color Masterbatch.
- Barrier screw design with mixing zone.
- Auto loading/Auto MB dozing/Auto granules collection.
- One-man operation.
- Consistent granule size improves pulverizing efficiency.
- Available in strand pelletizing type also.



PLANTER/FLOATING DOCK

TOYS/ROAD BARRIER

ROTO TANK



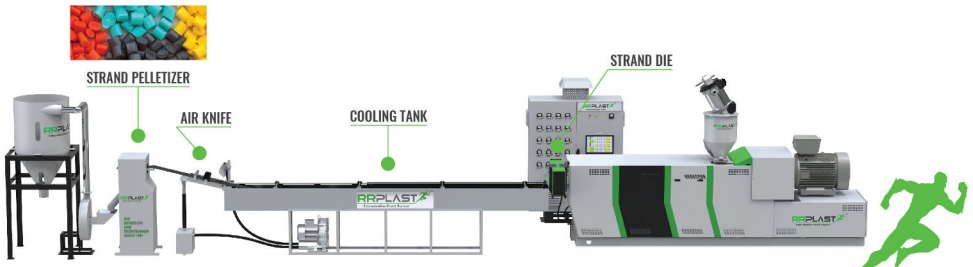
Specialized for Rotomoulding Grade PE
Designed specifically to produce free-flowing, micro-uniform granules suitable for pulverizing into roto-grade powder—ensuring smooth mold flow and even wall thickness in finished parts.

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

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	Ø	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



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

RRPLAST™
Extrusionline Front Runner

Machine Selection Criteria:-

Material

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

Material Type

- ☐ LDPE
- ☐ HDPE
- ☐ LLDPE
- ☐ HD/LD/LLD Mix
- ☐ PP
- ☐ BOPP
- ☐ CPP
- ☐ PS
- ☐ ABS

Output

- ☐ 100-200 kg/h
- ☐ 200-300 kg/h
- ☐ 300-400 kg/h
- ☐ 400-600 kg/h
- ☐ 700-800 kg/h
- ☐ 1000-1200 kg/h

Material Source

- ☐ Own Factory Waste (In-house/Post-industrial)
- ☐ Post-Industrial Waste (Collected from other Factories)
- ☐ Post-Consumer Waste (Already Washed and Dried)
- ☐ Post-Consumer Waste (No Washing)

Printing

- ☐ No print or less than 10%
- ☐ Printed up to 40%
- ☐ Heavily printed 50% ~ 100%

Filtration

- ☐ 80-40 mesh
- ☐ 60-80 mesh
- ☐ 100-120 mesh

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

YOUR PLASTIC WASTE & OUR RECYCLING SOLUTION

POLYETHYLENE TEREPHTHALATE (PET)

Bottles

Polyester Yarn

Film

Punched Grid

Fiber

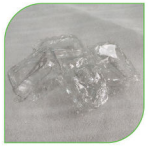
Lumps

Foil, Heavily Printed Metalized

Foil, Lightly Printed

Printed Film

Disposable Containers



Disposable Glass

POLYPROPYLENE (PP)

Bottle Caps

Dairy Cups

Disposable Glass

BOPP Film

File Folder

PP Filaments

Fiber

Film With Solid Contaminations

Strapping Band

Plastic Ropes

Raffia

HIGH-DENSITY POLYETHYLENE (HDPE)

Milk Bottles

Shampoo Bottles

Grocery Bags

Toys

Engine Oil Bottles

Buckets

RRPLAST™
Extrusionline Front Runner

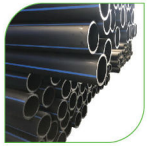
Containers

Crates

Trash Can

Chemical Drums

HDPE Pipes



Drip Irrigation Pipe

LOW-DENSITY POLYETHYLENE (LDPE)

Bubble Film

PE-LLD Stretch Film

Film Sheet

Garbage Bags

POLYVINYL CHLORIDE (R-PVC, S-PVC)

Pipe Fittings

PVC Cables

OTHERS

Bio-Plastics (PLA)

BOPET Foil

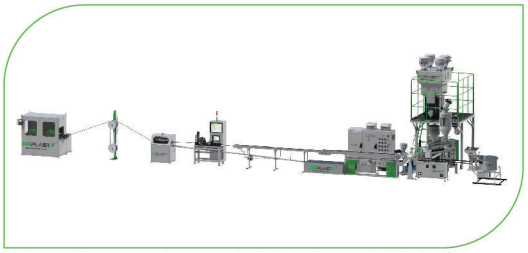
EPS Food Containers

INDIAN AT HEART - GLOBAL IN SPIRIT

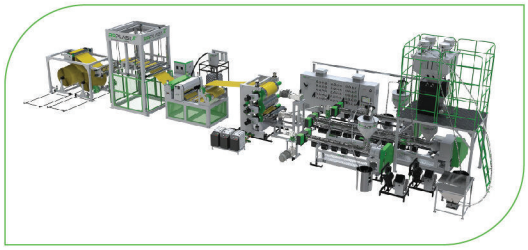
EXPORT TO MORE THAN 78 COUNTRIES

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

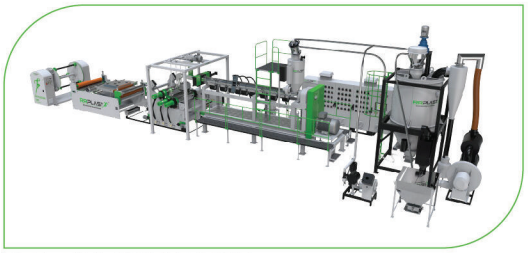
OTHER PRODUCT RANGE OFFERED BY RR PLAST EXTRUSIONS:-



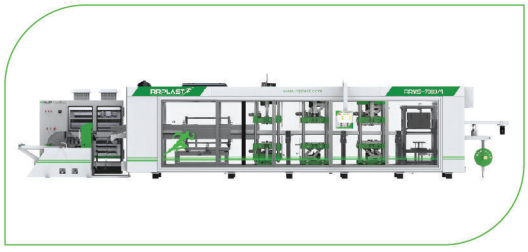
FLAT/ROUND DRIP IRRIGATION PLANT



PP, PS SHEET LINE



PET, PLA SHEET LINE



MULTISTATION PRESSURE FORMING MACHINE

RRPLAST™
Extrusionline Front Runner

44 YEARS OF INNOVATION

R.R. Plast Extrusions Pvt. Ltd.

Manufacturer & Exporter of Plastic Extrusion Machinery & Equipment

Head Office: 403/404, 4th Floor, Dilkap Centre, Sakinaka, Andheri - Kurla Road, Andheri (E), Mumbai, Maharashtra, India, Pin - 400072

Factory: Survey No. 164/4, 12/1, NH-3, Behind Hotel Pariwar Garden, Village Asangaon (W), Shahapur, Thane Maharashtra, India, Pin - 421601

+91 8828108583 +91 8657508968 **info@rrplast.com** **www.rrplast.com**