



INNOVATIVE SOLUTIONS FOR **RECYCLING** MACHINES

Turkey
Discover
the potential



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WHEN YOU SEARCH FOR A
STRONG SOLUTION

NOT ONLY PRODUCING

THINKING ABOUT FUTURE WHILE PRODUCING



INNOVATIVE SOLUTIONS
FOR **RECYCLING**
MACHINES

“ATAÇ Plastik Makina” has been established in 1984 by Mehmet Ataç. In the course of first years its occupation was to produce reducer. Our Company that started to manufacture Blown film extrusions in 1990 has adopted primarily satisfaction of customer with its philosophy of honest manufacturer.

”ATAÇ Plastik Makina”, always standing behind machines manufactured, its words, has been continuing to provide service at top quality to its gradually growing and expanding customer portfolio day by day in the Middle East, Central Asia, Africa and Balkan Countries. We have been exporting our machines to 70 countries in the World through our 15 dealers/sellers.

“ATAÇ Plastik Makina” has been attaching great and tough importance on providing service and spare parts in due time to our customers for their machines within warranty period and post-warranty period. With the support of our established quality management system our Company aimed always to produce much more qualified, initially fault-free machines, and while working to this end, our Company has been agreeing and undertaking to be customer-oriented, to ensure satisfaction of customer, to consider suppliers and customers as an integral part of the system, to implement and adopt a policy by ensuring contribution of all personnel, supporting with continuously developed training and information and to carry out production in strict compliance with laws within the framework of benefits of our Country without making any compromise over this policy.

COMPACT SERIES

Recycling Machines

General Description

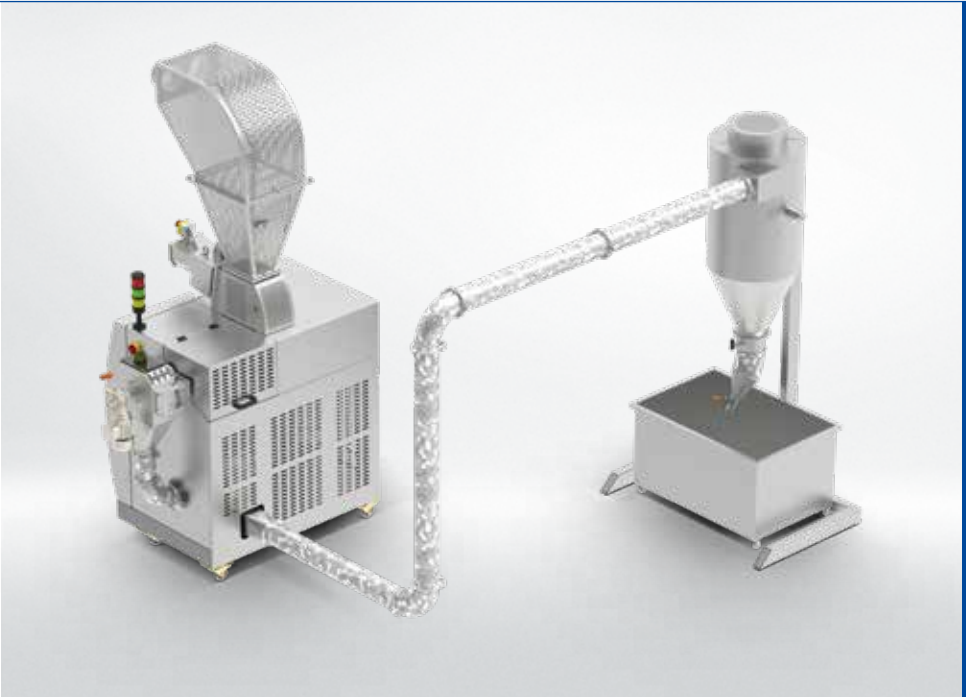
Polymer is cut into consistent length granules by rotating variable speed (AC inverter) die face cutter blades and is then cooled by air in a system comprising approx 6 m of 120 mm dia metal ducting and two chain hung cyclone. Granules will then exit the cyclone directly into the customer's day bin.

Compact series are suitable to operate in conjunction with all types of granular material metering devices, including gravimetric batching or weight loss systems. It is engineered for reliable, clean operation, catering for a wide range of film widths, materials types and gauges, and is suitable for feeding most film line extruders.

Technological Explanations

Compact series are designed to automatically convert film edge trim from blown film production into high quality re-usable granule in one operation, without additional labour.

Having been introduced into the screw, the film scrap is gently heated and plasticised in the short conic diameter screw, prior to being filtered and then extruded through a multi-hole die face.



Short Screw
Technology

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MODELS

	COMPACT 35	COMPACT 45
Materials	<ul style="list-style-type: none">• HDPE• LDPE• LLDPE	<ul style="list-style-type: none">• HDPE• LDPE• LLDPE
Main Motor	7.5 kw	11 kw
Screw Diameter	Ø 90 / 35 mm	Ø 90 / 45 mm
Cutter Motor	0.37 kw	0.37 kw
Granule Conveying Fan	1.5 kw	2.2 kw
Heating Control	3 zone	3 zone
Barrel Cooling Fans	0.25 kw x 2	0.25 kw x 2
Output	25 kg / h	45 kg / h
Type Of Screen Changer	optional	optional

RECO SERIES

Recycling Machines

General Description

RECO series have 2 different type of cutting pelletizer ; air cooling and water cooling for different type of materials.

HDPE-LDPE-LLDPE and PP (possible to work with water cooling pelletizer)

Polymer is cut into consistent length granules by rotating variable speed (AC inverter) die face cutter blades and is then cooled by air or water in a system comprising approx 12 m of

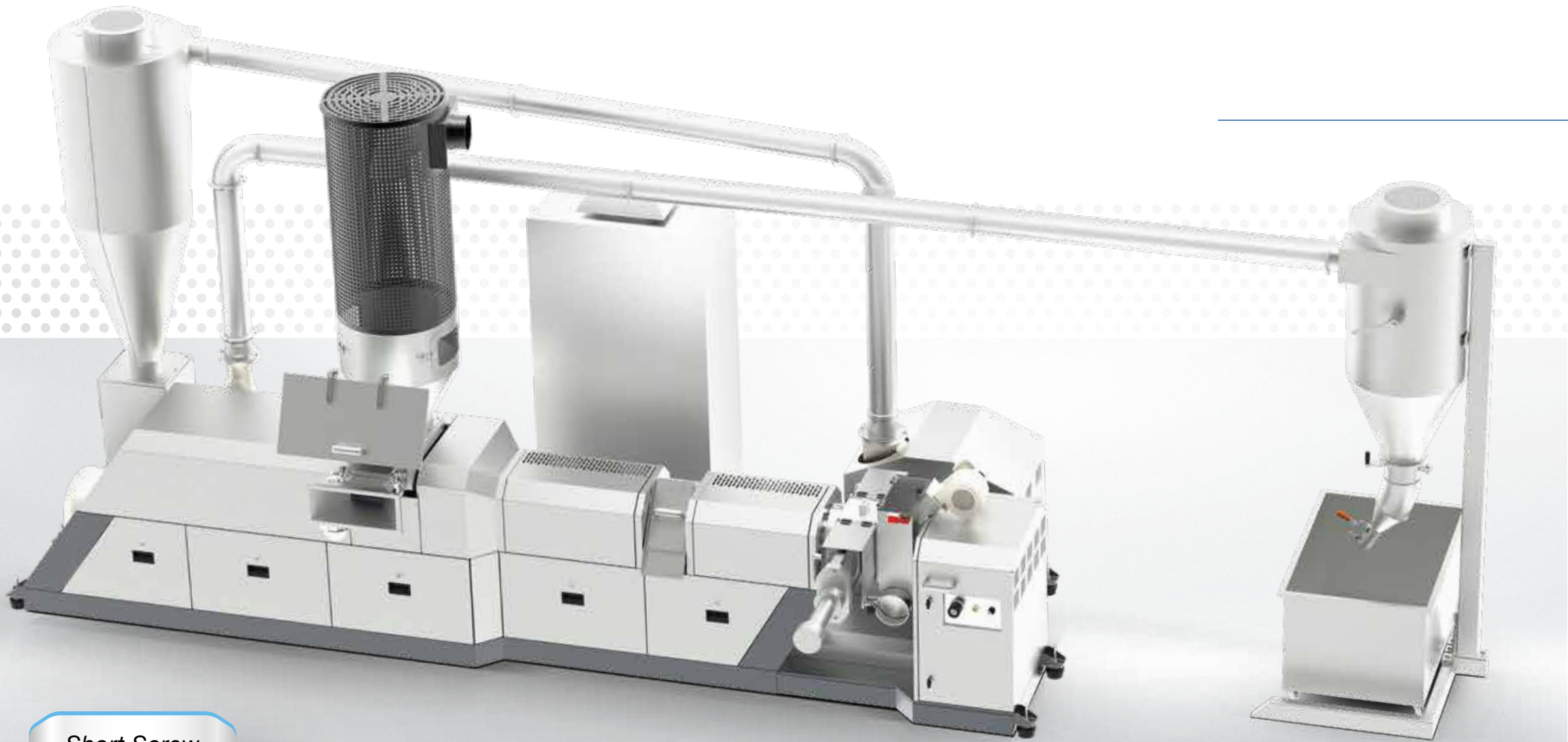
120 mm dia metal ducting and two chain hung cyclone. Granules will then exit the cyclone directly into the customer's day bin.

RECO series are suitable to operate in conjunction with all types of granular material metering devices, including gravimetric batching or weight loss systems. It is engineered for reliable, clean operation, catering for a wide range of film widths, materials types and gauges, and is suitable for feeding most film line extruders.

Technological Explanations

RECO series are designed to directly fed on to the screw into high quality re-usable granule in one operation, without additional labour.

Having been introduced into the screw, the film scrap is gently heated and plasticised in the short conic diameter screw, prior to being filtered and then extruded through a multi-hole die face.



Short Screw
Technology

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MODELS

	RECO 60	RECO 70	RECO 80	RECO 90
Materials	• HDPE • LDPE • LLDPE PP (options)	• HDPE • LDPE • LLDPE PP (options)	• HDPE • LDPE • LLDPE PP (options)	• HDPE • LDPE • LLDPE PP (options)
Main Motor	22 kW	30 kW	37 kW	45 kW
Diameter Of Screw	Ø 120 / 60 mm	Ø 130 / 70 mm	Ø 140 / 80 mm	Ø 150 / 90 mm
Cutter Motor	0.75 kW	0.75 kW	0.75 kW	1.1 kW
Granule Conveying Fan	2.2 kW x 2	2.2 kW x 2	2.2 kW x 2	3 kW x 2
Heating Control	5 zone	5 zone	6 zone	7 zone
Barrel Cooling Fans	0.37 kW x 3	0.37 kW x 3	0.37 kW x 3	0.37 kW x 4
Type Of Screen Changer	optional	optional	optional	optional
Type Of Pelletizer	• air cooling • water cooling	• air cooling • water cooling	• air cooling • water cooling	• air cooling • water cooling
Output	110 kg / h	130 kg / h	160 kg / h	220 kg / h

DELTA SERIES

Recycling Machines



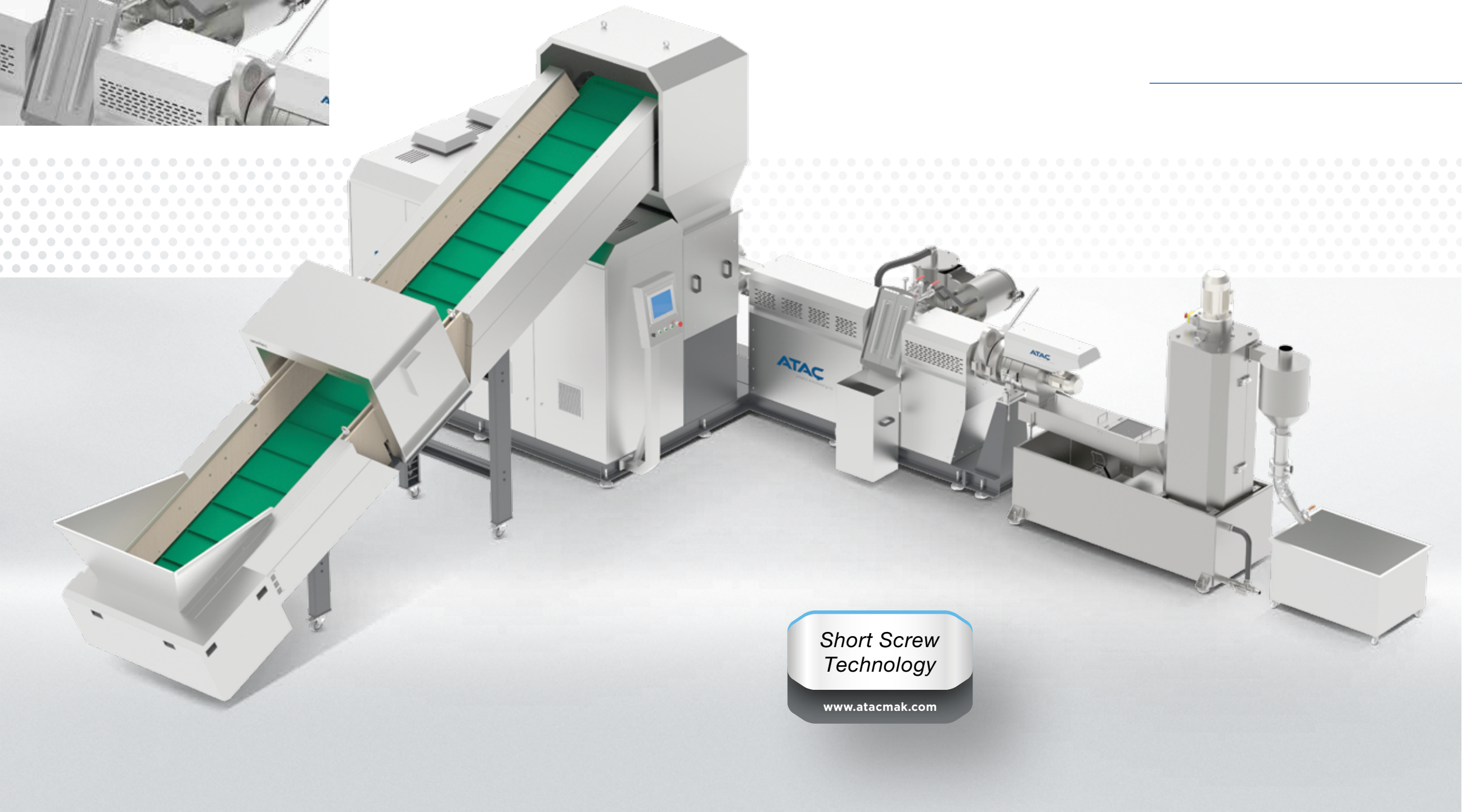
General Description

DELTA Series is a completely integrated unit with a single shaft shredder to size reduce the material, a crammer screw to convey the material to the extruder, an extruder to melt and homogenise the material, and a pelletising system to produce, cut and dry the material. The complete unit is automatically controlled with a PLC based system. The DELTA machine gives;

- High quality uniform pellets,
- Direct material feed without any pre-processing or cutting,
- Variable speed extruder motor to ensure complete control of the process,
- Quick and easy maintenance with plugs and sockets for heaters,
- Thermocouples etc and an open construction for fast access
- A range of options to enable it to be tailored to meet your exact requirements
- A stable robust processing system reducing operator intervention to a minimum
- Lowest cost recycling with an energy consumption of typically 0.25- 0.30 kWh per kg of pellets
- Material to be processed : LDPE - LLDPE - HDPE - PP

Technological Explanations

DELTA Series has been designed to recycle thermoplastic waste into pellets. It has single short screw technology. It is a high output single unit capable of recycling material in various forms, such as; film., bags, sacks and punch-outs, purging and start-up scrap, fabrics and non-wovens, fibres, tapes and ropes.



Short Screw
Technology

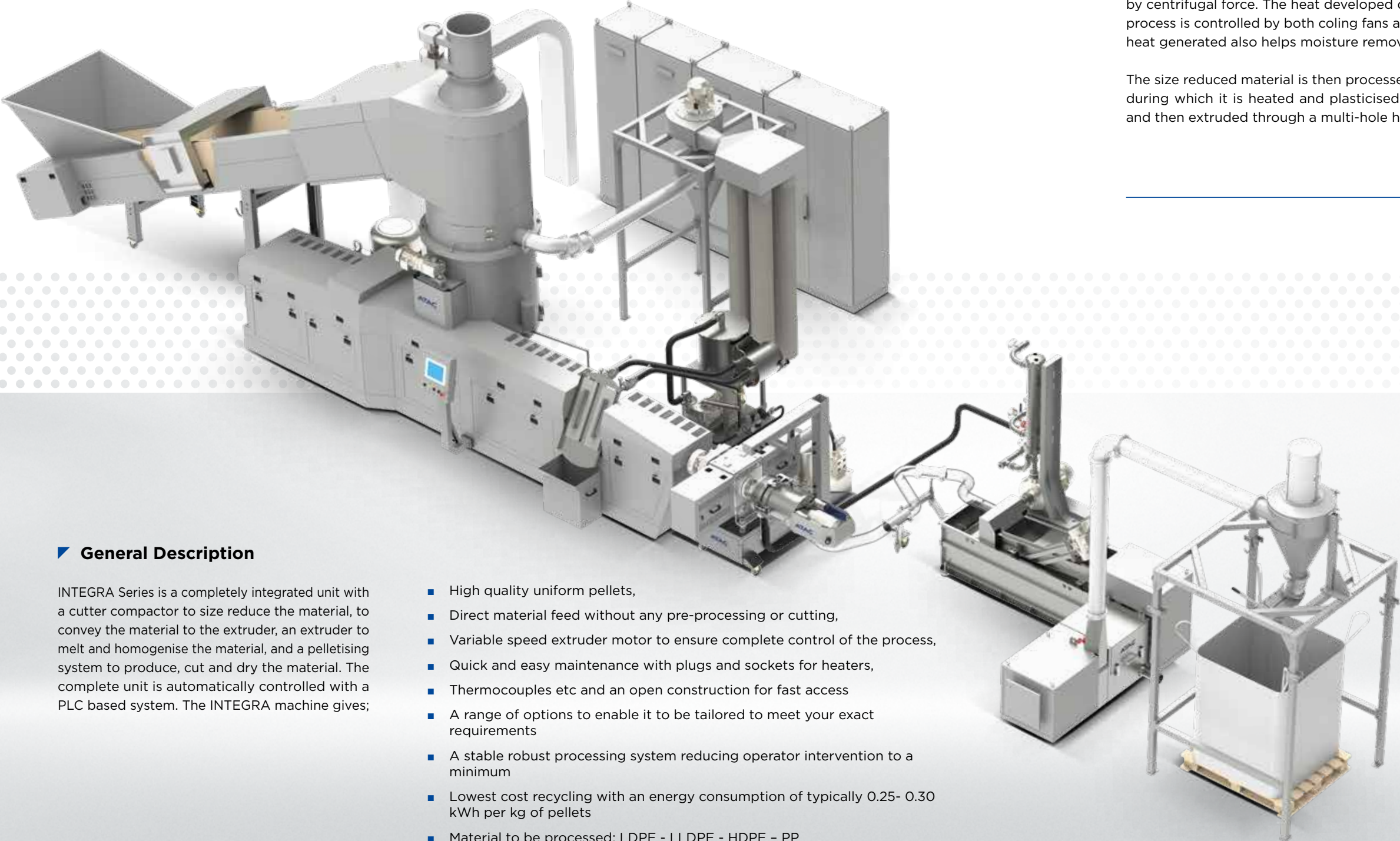
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MODELS

	DELTA 60	DELTA 70	DELTA 80	DELTA 90
Materials	▪ HDPE ▪ LDPE ▪ LLDPE PP (options)	▪ HDPE ▪ LDPE ▪ LLDPE PP (options)	▪ HDPE ▪ LDPE ▪ LLDPE PP (options)	▪ HDPE ▪ LDPE ▪ LLDPE PP (options)
Main Motor	30 kW	37 kW	45 kW	55 kW
Diameter Of Screw	Ø 120 / 60 mm	Ø 130 / 70 mm	Ø 140 / 80 mm	Ø 150 / 90 mm
Granule Conveying Fan	2.2 kW	2.2 kW	2.2 kW	2.2 kW
Heating Control	6 zone	6 zone	6 zone	7 zone
Barrel Cooling Fans	0.37 kw x 3	0.37 kw x 3	0.37 kw x 4	0.37 kw x 5
Type Of Pelletizer	water cooling	water cooling	water cooling	water cooling
Shredder Diameter	Ø 270 / 400	Ø 270 / 500	Ø 270 / 600	Ø 350 / 700
Shredder Motor	11 kW	15 kW	18.5 kW	22 kW
Feed Auger Motor	1.5 kW	1.5 kW	2.2 kW	3 kW
Vent System	✓	✓	✓	✓
Vent Vacuum Pump	2.2 kW	3. kW	3 kW	4 kW
Metal Dedector	✓	✓	✓	✓
Centrifugal Drier Motor	2.2 kW	2.2 kW	3 kW	4 kW
Type Of Screen Changer	▪ manual ▪ hydraulic ▪ back flush	▪ manual ▪ hydraulic ▪ back flush	▪ manual ▪ hydraulic ▪ back flush	▪ manual ▪ hydraulic ▪ back flush
Output	120 kg / h	180 kg / h	250 kg / h	320 kg / h

INTEGRA SERIES

Recycling Machines



General Description

INTEGRA Series is a completely integrated unit with a cutter compactor to size reduce the material, to convey the material to the extruder, an extruder to melt and homogenise the material, and a pelletising system to produce, cut and dry the material. The complete unit is automatically controlled with a PLC based system. The INTEGRA machine gives;

- High quality uniform pellets,
- Direct material feed without any pre-processing or cutting,
- Variable speed extruder motor to ensure complete control of the process,
- Quick and easy maintenance with plugs and sockets for heaters,
- Thermocouples etc and an open construction for fast access
- A range of options to enable it to be tailored to meet your exact requirements
- A stable robust processing system reducing operator intervention to a minimum
- Lowest cost recycling with an energy consumption of typically 0.25- 0.30 kWh per kg of pellets
- Material to be processed: LDPE - LLDPE - HDPE - PP

Technological Explanations

The compactor cutter is mounted adjacent to the feed zone of the Integra extruder. Material is fed into the compactor cutter where it is further size reduced and densified by the combined action of the rotating and fixed knives and the frictional heat produced. The densified material is then fed directly into the Integra extruder by centrifugal force. The heat developed during the densification process is controlled by both cooling fans and water injection. This heat generated also helps moisture removal.

The size reduced material is then processed by the Integra screw during which it is heated and plasticised prior to being filtered and then extruded through a multi-hole hot die face.

The Integra screw will process the majority of post process scrap, the only changes required would be to the process recipe and, in some cases, a different die face.

The polymer is then pelletized using the water pelletizing system. As the molten polymer exits the die face it is cut by a rotating variable speed die face cutter and fed into a water ring where it cools and is then transferred via a water chute into a high-performance centrifuge. Additional drying is via an air conveying system comprising metal ducting / pipework (nominal length of 12- 15m and 160mm dia.) to an air separation cyclone. Granules then exit the cyclone directly into the customer's day bin or bagging station.

MODELS	INTEGRA 70	INTEGRA 85	INTEGRA 105
Materials	• HDPE • LDPE • LLDPE PP (options)	• HDPE • LDPE • LLDPE PP (options)	• HDPE • LDPE • LLDPE PP (options)
Main Motor	90 kW	110 kW	132 kW
Diameter Of Screw	Ø 70	Ø 85	Ø 105
Heating Control	oil cooling	oil cooling	oil cooling
Type Of Pelletizer	water cooling	water cooling	water cooling
Compactor Diameter	Ø 900	Ø 1100	Ø 1300
Compactor Motor	75 kW	90 kW	110 kW
Vent System	✓	✓	✓
Vent Vacuum Pump	3 kW	3 kW	4 kW
Metal Detector	✓	✓	✓
Centrifugal Drier Motor	2.2 kW	3 kW	4 kW
Type Of Screen Changer	options	options	options
Output	250 kg / h	400 kg / h	600 kg / h



plastic machinery co.

INNOVATIVE SOLUTIONS FOR RECYCLING MACHINES



Check out
our solution

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