

# EXACT

## EXACT GRANULATORS R6/GOLD EVOLUTION CYKLOP



CE

Used for In-Line Edge Trim Film  
Recycling or Off-Line Roll Recovery.

Our EXACT models are utilised in Film Granulation of various quantities and thickness' into a recyclable chip. Film types include but are not limited to: PA - PET - PS - HDPE - LDPE - LLDPE - PVC - PP - PTFE - PU - PVOH - EVOH - EHPP - EVAL. All types of film, mono or multi-layered, biodegradable, bubble wrap, foam, woven, non-woven, polyurethane, strapping, and combinations of such are easily recovered. Through the use of a Preheater, we are able to easily stretch materials if required, Crystallize PET in line and also recover hygroscopic films.

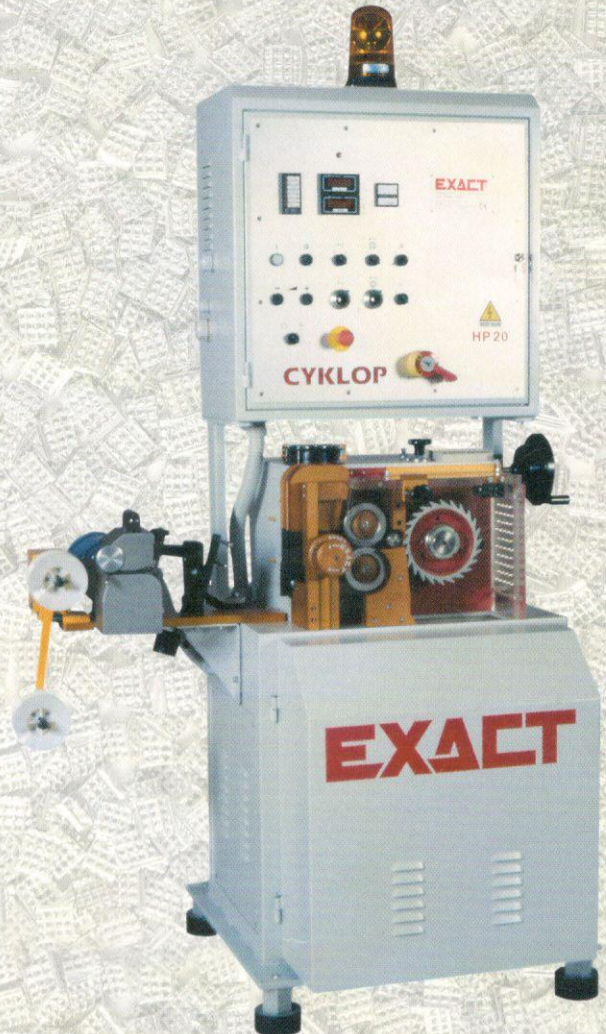
### Attrezzature meccaniche

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Plastic Film Recycling Machines utilised to recover In-Line Edge Trim or Off-Line Rolls. The resultant densified Exact Chip produced is easily recycled by blending it back into the process together with Virgin material.

- \* Densified chips are immediately recycled without risk of contamination.
- \* In-Line and Off-Line process.
- \* No color degradation or secondary heat history.
- \* Immediate reuse of Edge Trim without the need of storage or handling.
- \* Low Energy consumption.
- \* A.C. Drive Control Systems.
- \* Sizes ranging from 4 to 17 Kw.
- \* Excellent transport and mixing characteristics of the resultant Exact Chip.
- \* Little floor-space required with quiet operation.
- \* More than three thousand units sold world wide.



CYKLOP 20+T/Si/B/Se/Apf





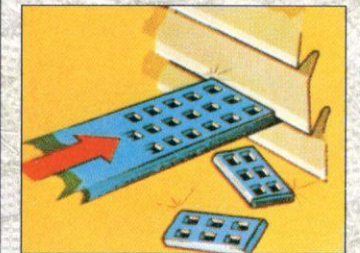
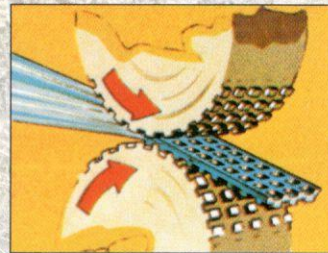
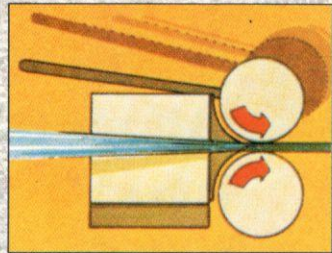
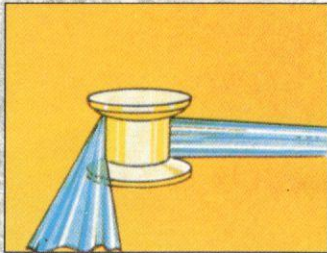
**EXACT machines quickly transform scrap films and edge trims into clean, ready-to-use recyclable chips.**

A - Guide Rollers are utilised to guide the continuous edge trim into the Exact unit. The guide rollers are placed to allow easy introduction of the edge trim into the Granulator. Upon loss of edge trim tension for any reason, an alarm lamp signals.

B - As the edge trim enters the Exact unit, an Entrance Guide is utilised to gather the material and fold it into a narrow web. The Entrance guide is adjustable to accommodate various quantities of incoming material. As the narrow web leaves the Entrance Guide, it enters the compression rollers.

C - The narrow web is then compressed by the Compression Rollers into a highly uniform and compressed plastic tape. Two or more edge trims may be fed simultaneously into one entrance guide or may be separated with a single edge trim in each of the two entry channels.

D - The compressed tape then enters the long-life widia (tungsten carbide) blade cutter. Here the tape is uniformly cut into small Exact Chips. The Exact Chips are then easily transported and mixed with Virgin material for direct feeding into the Extruder.



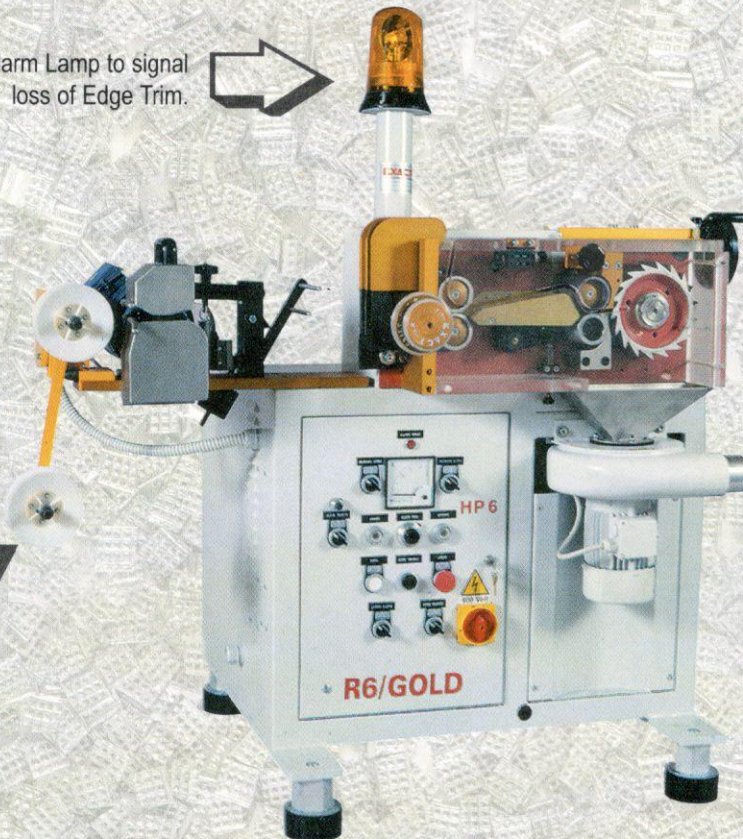
Rotating Alarm Lamp to signal loss of Edge Trim.



Ready to Recycle Exact Chip.



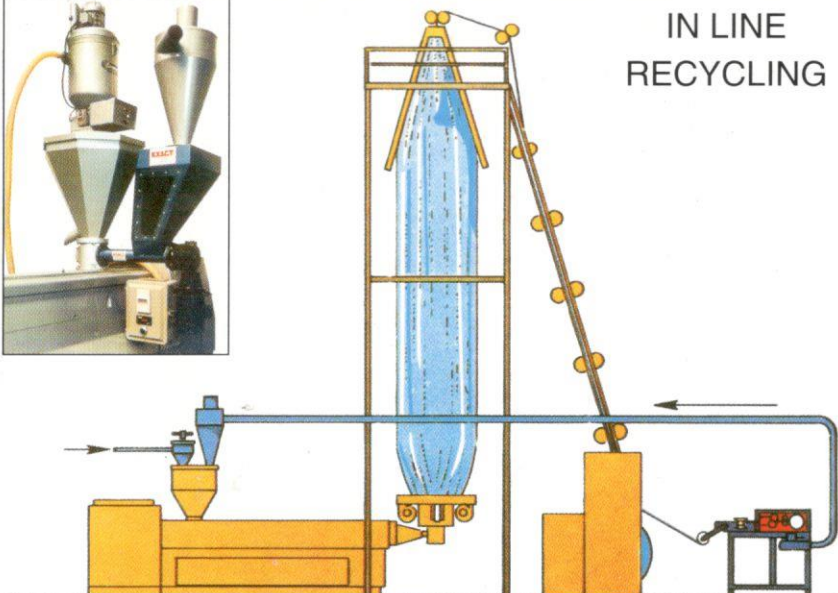
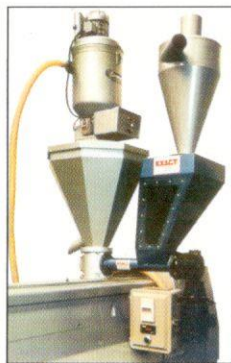
Film in



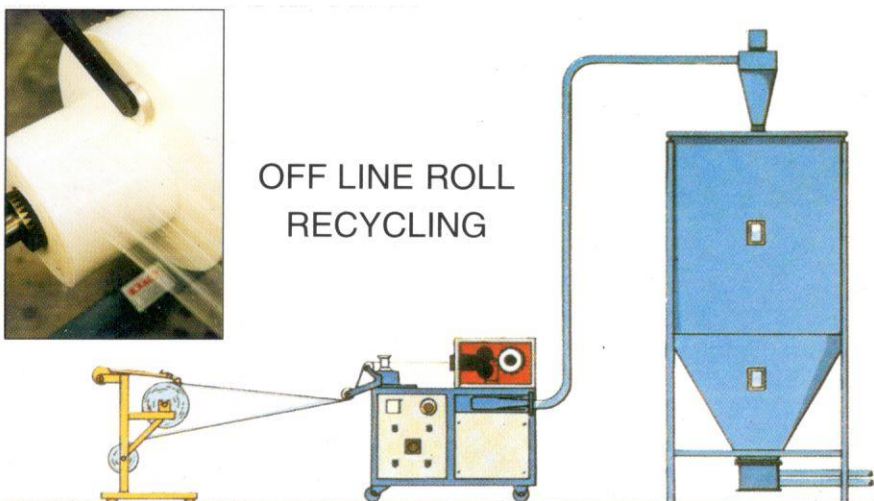
R6/GOLD+T/Si/B/Se/Anf



## IN LINE RECYCLING



## OFF LINE ROLL RECYCLING



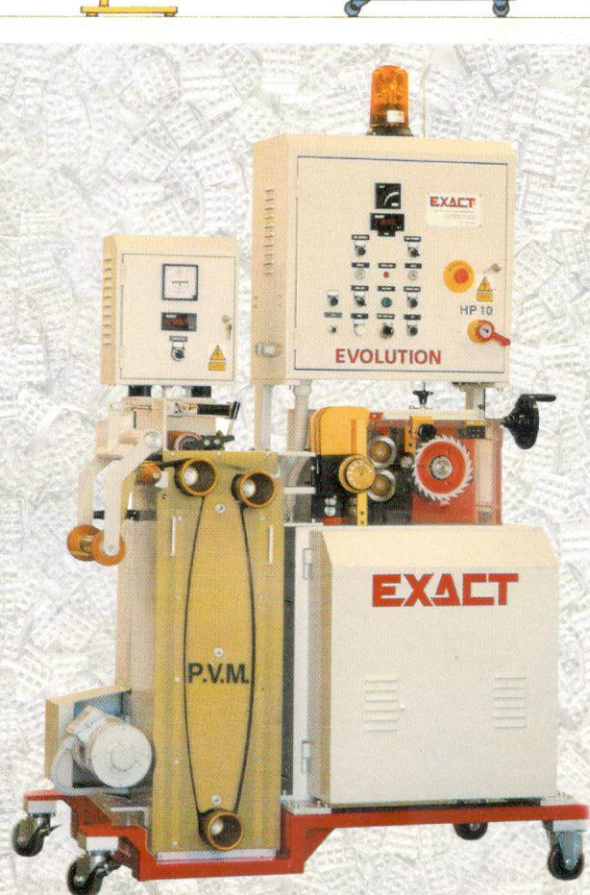
## EXACT models are available from 4 to 17 KW

EXACT Granulators are utilised in both In-Line recycling of Edge Trim for both Cast and Blown Film lines. The edge trim fed directly into the EXACT is compressed into a continuous length of material which is then cut into smaller uniform EXACT Chips. These EXACT Chips are then transported with a built in transport system to the Extruder Feed area. The EXACT Chips mix and feed very easily with Virgin pellets providing for easy recycling. For complete and trouble free reintroduction of the EXACT Chip, we suggest the use of our line of A.F. Underhopper Forced Feeders.

EXACT Granulators are often utilised for the Off-Line recovery of Off-Specification rolls. Capacities can be easily met with one of our standard models available. Rolls of various widths and diameters are easily handled.

EXACT Unwind Stands offer the flexibility of unwinding small and large rolls quickly and efficiently. In-Line slitting is also available for very wide rolls.

Reintroduction of the EXACT Chip may be efficiently handled with our A.F. Underhopper Forced Feeder which is available in both constant and variable speeds.



EVOLUTION 10+PVM 250/B/Si/Se/Apf

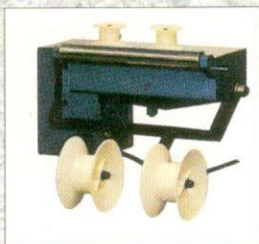


CYKLOP 20+PVM 300/B/Si/Se/V

All machines are available with castors upon request.



**OPTIONALS:** Each EXACT Granulator model may be fitted with various optional attachments that enable the reclaim of all types of Thermoplastic Film.



**B = Speed Regulating Dancer Arm.**

This option partially synchronises (+/- 20%) the Granulator speed to the Line speed.

Two sensors detect the loss of tension or a breakage of the incoming film which in turn operates a rotating alarm lamp.

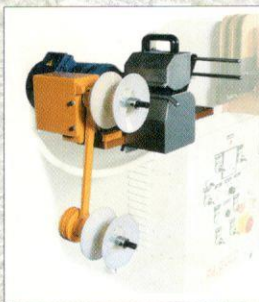


**T = In-Feed Device**

This In-Feed Device assembly is used in pulling In-Line Edge Trim from the Line or from an Off-Line Unwind stand into the EXACT unit.

**T/B = In-Feed Device with Dancer Arm.**

This device is utilised in maintaining a constant film tension into the EXACT unit. In association with this assembly, the Inner Synchronism option is normally utilised. This allows the EXACT unit to automatically Increase and Decrease speed maintaining a constant film tension if speed or gauge variations exist. This option is also recommended when the Outer Synchronisation option is selected. This system allows for a +/- 20% speed variation.

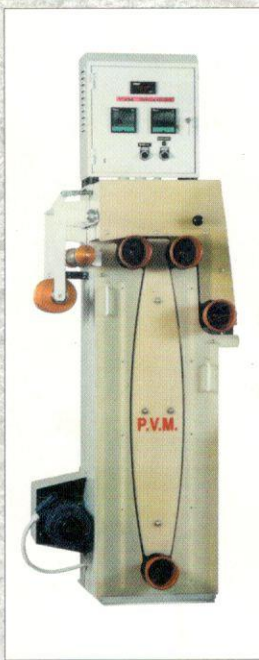


**PVM = Motorised Vertical Pre-Heater**

The PVM which may be easily added to existing EXACT units allows recovery of difficult films without problems. The PVM:

- allows reclaim and improves the EXACT Chip bulk density of various corona treated films and films with additives such as slip.
- eliminates the production of dust which may be evident in the recovery of rigid films such as PS.
- allows recovery of hygroscopic films.
- reduces the amperage and the mechanical work required on heavy gauge and rigid films.
- allows for the recovery and In-Line Crystallisation of PET.
- allows stretching of very thick films for easy recovery and size control of the resultant EXACT Chip.

PVM 180 for R6/GOLD  
PVM 250 for EVOLUTION 10  
PVM 300 for CYKLOP 20



**SI = Inner Synchronism**

The SI option is utilised in conjunction with the T/B - In-Feed Device and the PVM - Vertical Motorised Pre-Heater options. This SI option controls the speed of the EXACT unit in accordance with the Dancer Arm that controls the tension of the incoming film.

**SE = Outer Synchronism**

The SE option is utilised in synchronising the EXACT unit to an external speed signal representing the extruder line speed. This option allows for a greater variation of speed fluctuations allowed by the In-Feed Dancer Arm.



**EXACT Chip Transport Systems**

The Transport systems transport the finished EXACT Chip either back to the extruder feed system or to a storage bin. Two types are available; contact and non-contact.

- "APF" = This contact system is a standard transport blower in which the fan wheel comes in direct contact with the EXACT Chip.
- "V" = This non-contact system is a blower in conjunction with a venturi system. This system is more suitable for materials which tend to be damaged by the contact style blower.



Both systems come complete with transport tubing and a discharge cyclone for EXACT Chip / Air separation.



"A.F."

**UNDERHOPPER FORCED FEEDERS**

- Constant Speed
- Variable Speed

**Main Characteristics - Bulk dimensions and weight:**

MODEL	R6/GOLD + B	R6/GOLD + T	R6/GOLD +PVM 180	EVOLUTION 10 + B	EVOLUTION 10 + T	EVOLUTION 10+PVM 250	CYKLOP 10 + B	CYKLOP 20 + T	CYKLOP 20+PVM300
Cutter Ø mm	180	180	180	180	180	180	200	200	200
Cutter Blades Standard	18	18	18	18	18	18	20	20	20
Upon Request	24	24	24	24	24	24	24	24	24
Speed m/min. max	60	100	100	100	150	150	150	200 Plus	200 Plus
Speed ft/min. max	197	328	328	328	492	492	492	656 Plus	656 Plus
Net weight kg	360	400	460	550	600	750	650	750	1020
lbs	792	880	1014	1212	1322	1653	1433	1653	2248
Width mm	1150	1200	1400	1000	1100	1250	1100	1250	1530
in	45"	47"	55"	39"	43"	49"	43"	49"	60"
Depth mm	900	900	1000	830	830	830	950	950	950
in	35"	35"	39"	32"	32"	32"	37"	37"	37"
Height mm	1070	1070	1500	1900	1900	1900	2130	2130	2130
in	42"	42"	59"	74"	74"	74"	83"	83"	83"



**EXACT**

**ATTREZZATURE MECCANICHE**

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