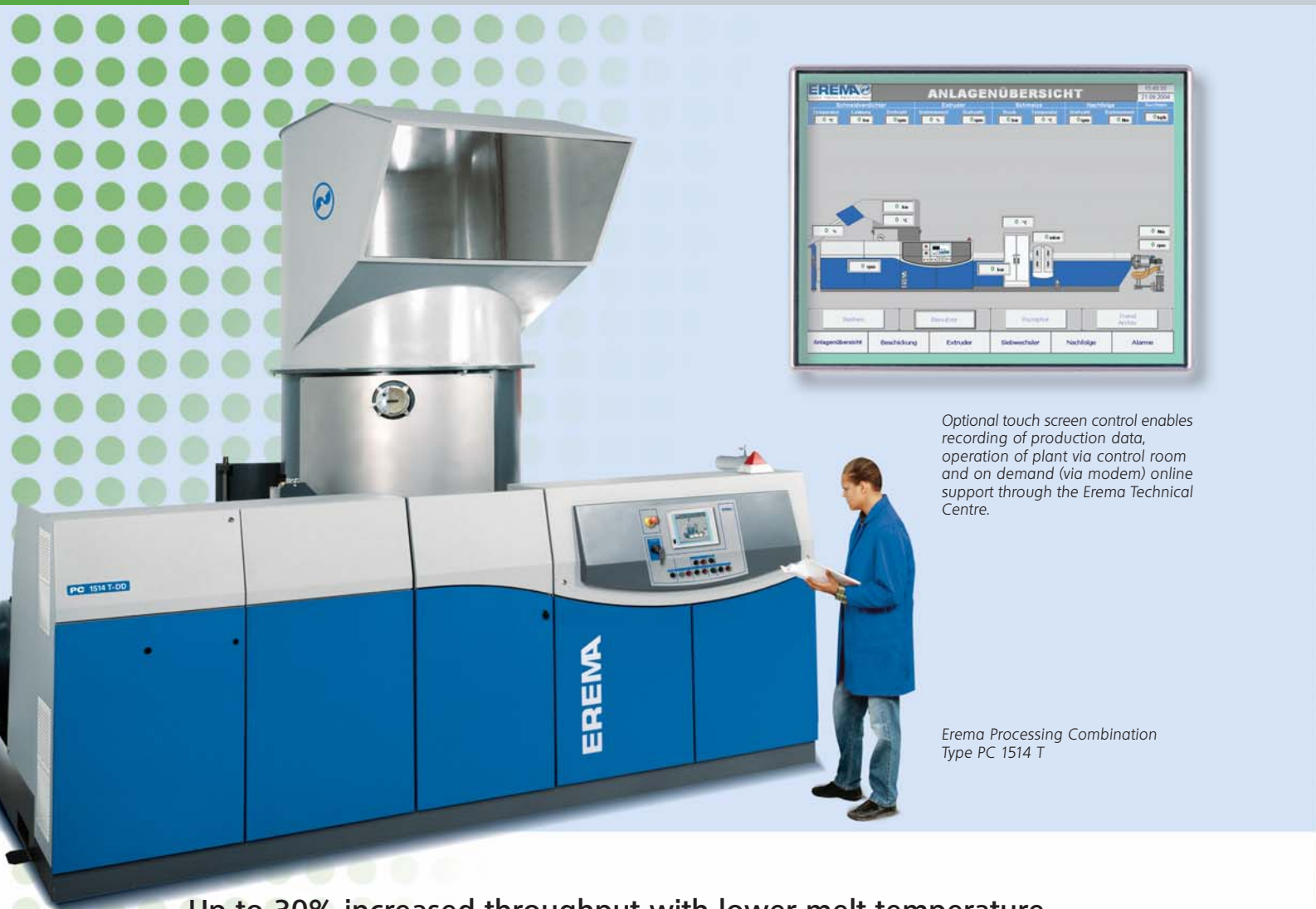


EREMA Plastic Recycling System PC



The advanced EREMA System in its 4th generation from the world leader in plastic recycling equipment.



Optional touch screen control enables recording of production data, operation of plant via control room and on demand (via modem) online support through the Erema Technical Centre.

Erema Processing Combination
Type PC 1514 T

Up to 30% increased throughput with lower melt temperature

- ... of processed material with the same extruder size. Now possible due to a considerable change in the ratio between the cutter compactor chamber volume and the extruder size (patented).
- The enlarged cutter compactor chamber volume provides better precutting, a longer dwell time of the processed material in the chamber and a more even temperature homogeneity of the precut, preheated plastic material fed to the extruder screw.
- Consequently screws are now cut deeper and processing temperatures in the extruder are generally lower.

The superb positive result is a considerably lower melt temperature of the processed material, resulting in less heat history and better MFI of the reprocessed material at considerably higher output rates!



Simplified feeding process with large single portions

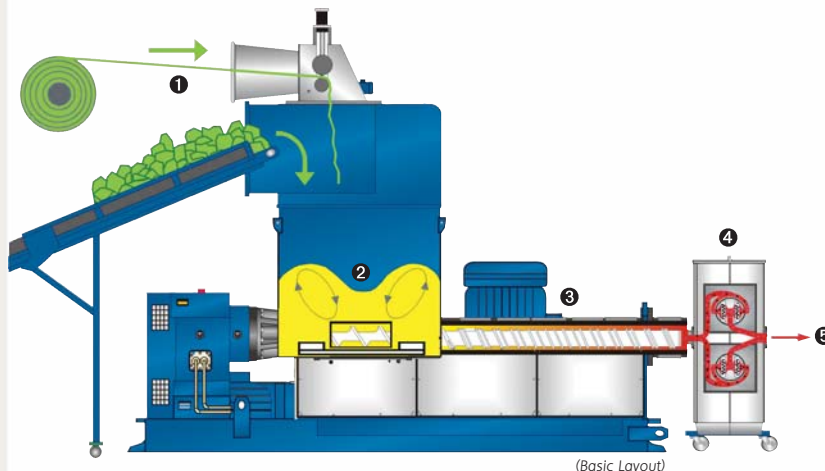
... and consequently reduced feeding labour (operator cost) is another positive result of the new design.

The enlarged cutter compactor drum allows the feeding of the system with larger single portions of plastic waste without disturbing the temperature homogeneity in the drum. The result is a more steady and robust overall behaviour of the plant at stable, high output rates independent from the feeding personnel.

This, in combination with the optional T-DD* cutter compactor execution (see separate folder), plus the advanced generation of Erema melt filters as well as the superior HG 82/152/242/342 Erema hot die face pelletising systems (see separate brochures) offer the processor a superior machine with unsurpassed performance, reliability and productivity.

** DD stands for "Double Disc" Technology and refers to the separation of the working steps "material processing" (shredding, drying, preheating, compacting) from the step "extruder feeding" in the cutter compactor. The result is an extremely uniformly fed and evenly operating recycling extruder which constantly performs at its best, regardless of external factors (e.g. feed portion size, moisture etc.).*

How the system works:



Automatic plant feeding (e.g. loose material via feeding conveyor belt ❶ or film directly from rolls via reel feeder).

In the cutter compactor ❷ the feed material is cut, mixed, heated, dried and predensified. The excellent drying effect allows troublefree processing of materials with up to 8% humidity (TVE). Furthermore, the rotary cutters ensure a very efficient, continuous force feeding to the directly coupled single screw extruder ❸. The direct combination results in energy savings of up to 40% compared to multi-stage-processes. In the extruder the material is plasticised, homogenised and, if necessary, vented (TE, TVE plant type).

Extruder configurations:

- Type 1: **basic type (T-plant)** = extruder without degassing zone
- Type 2: **cylinder degassing upstream of filter (TE-plant)** = classic degassing extruder with double venting.
- Type 3: **filter upstream of cylinder degassing (TVE-plant)**, patented, double vented extruder with supreme degassing efficiency (see separate brochure)

Having passed the fully automatic self-cleaning melt filter (see separate brochure) ❹, and via suitable pelletising systems ❺ uniform, clean and vented cylindrical or lenticular granules (pellets) are produced and fed into the following pellet cooling and drying system. Subsequently, the material is transported to a storage bin or to a bagging station via blower and pipelines.

Available Plant Sizes	AVERAGE THROUGHPUT CAPACITY (kg/h) (depending on material properties) for most common materials									
	LDPE, LLDPE		HDPE		PP		PS		PET	
	min	max	min	max	min	max	min	max	min	max
PC 700 T	100	120	90	110	80	100	100	150	-	-
PC 700 TE	70	90	60	80	70	90	80	100	100	150
PC 706 T	130	170	110	150	120	160	150	200	-	-
PC 706 TE	110	150	90	130	100	150	120	160	140	200
PC 906 T	200	230	90	210	200	240	240	280	-	-
PC 906 TE	160	190	140	170	180	200	200	240	160	240
PC 1000 T	280	320	240	300	270	300	30	350	-	-
PC 1000 TE	220	250	220	250	220	250	250	300	200	300
PC 1000 TVE	230	280	200	250	200	250	300	350	-	-
PC 1100 T	360	450	320	400	330	400	380	450	-	-
PC 1100 TE	280	320	230	280	280	320	320	380	250	400
PC 1100 TVE	280	400	280	380	300	380	380	450	-	-
PC 1109 T	480	530	450	500	450	500	480	560	-	-
PC 1109 TE	320	400	300	400	360	400	400	500	320	490
PC 1109 TVE	320	480	300	480	400	500	480	560	-	-
PC 1300 T	550	650	500	600	550	600	600	700	-	-
PC 1300 TE	450	500	400	500	450	500	500	600	400	600
PC 1300 TVE	450	600	500	560	550	600	600	700	-	-
PC 1500 T	800	900	750	850	750	850	850	1000	-	-
PC 1500 TE	650	720	600	700	700	750	750	900	600	800
PC 1500 TVE	800	900	720	850	700	850	850	1000	-	-
PC 1514 T	1000	1200	1000	1100	900	1100	1100	1400	-	-
PC 1514 TE	800	1000	700	900	800	1000	1000	1200	750	1100
PC 1514 TVE	850	1150	850	1100	900	1100	1100	1400	-	-
PC 1700 T	1300	1500	1100	1300	1100	1300	1300	1500	-	-
PC 1700 TE	1000	1200	900	1100	1000	1200	1200	1400	900	1400
PC 1700 TVE	1300	1500	1100	1300	1100	1300	1300	1500	-	-
PC 1701 T	1500	1850	1300	1600	1300	1600	1500	1800	-	-
PC 1701 TE	1200	1500	1100	1350	1200	1450	1350	1650	1100	1650
PC 1701 TVE	1500	1850	1300	1600	1300	1600	1500	1800	-	-
PC 1702 T	2200	2700	2000	2400	1800	2200	2400	2600	-	-
PC 1702 TE	1800	2100	1700	2000	1800	2000	2200	2500	1800	2400
PC 1702 TVE	2200	2700	2000	2200	1800	2200	2400	2600	-	-

Why Erema?

- High-tech from the world market leader
- Top-notch state-of-the-art recycling technology
- Superior end product quality (pellet)
- Best customer service and care and therefore reliability for the user
- Tailor-made, individual solutions possible through large engineering capacity with more than 30 years experience in plastic recycling
- Superb reliability, flexibility and productivity
- Your best partner

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