EREAMA - The Company

- Founded in 1983
- Each year more than 200 recycling Extruders for different materials
- Turnover 2006/2007 over $100 million - with 260 employees
- More than 50 patents
- Largest single supplier of recycling extruder
EREEMA North America

- Established for over 15 years
- Based in Ipswich, MA
- Demonstration facilities
- 11 employees including 3 in after sales/spares
- Including 3 US based service technicians
EREMA is known world-wide for:

◆ Quality
◆ Innovation
◆ Know-how and technology
◆ Market Leader
◆ Strong Customer Service
Historic methods...

- Material jamming input zone
- Pre-Aglutinator necessary
- Many sensible components (drives, gearboxes, pipework...)
- High screw speed needed...
- High degradation, low output
- High power consumption

Material under heat and oxygen influence

External compactor (Aglutinator) necessary. And / or Grinders

Cold feeding
The patented EREMA TVE system

- Additives: CaCO3
- Plastics scrap
- Main drives
- Cutting tools
- Extruder
- Automatic RTF meltfilter
- Double vacuum venting
- Cutter compactor: cutting & feeding, drying, densifying, homogenising, COMPOUNDING!
- Pelletising system
- Start-stop control

COMPOUNDING!
High performance Compounding-Recycling?

Addition of Reinforcing Fillers?
EREMA Direct Dosing System
COAX From EREMA

The new developed - COAX - System
EREEMA

What does COAX mean?
- cutting tool and extruder screw are mounted on one shaft
to be applied for patent
Vacuum pre-dryer / extruder combination
EREEMA Melt Filters
Auto Backflush Sequence...

How it works?
EREKA Melt Filters
... Symmetrical Piston Design

Pressure balance
Piston 1 and 2 in production position
all 4 screen packs in active filtration position
Cleaning of screen pack  I in piston 1
piston 1 in backflush position 1

main melt flow
backflush melt flow
Piston 1 and 2 in production position
all 4 screen packs in active filtration position

melt inlet

melt outlet
main melt flow
Cleaning of screen pack II in piston 1
piston 1 in backflush position 2

backflush melt flow

main melt flow
Piston 1 and 2 in production position
all 4 screen packs in active filtration position

melt inlet

melt outlet

main melt flow
New SW12/170RTF – Extreme filtration area
Flow Diagram Laser Filter

- Direction of scraper disc rotation
- Melt inlet
- Impurity discharge
- Impurity discharge
- Clean melt outlet
**Operation Condition**

**Upper limits of contamination**
(The maximum amount could be less in case of combination of different impurities)

- max. 5% of paper
- max. 1,5% - 2% of aluminium
- max. 1% - 2% of copper wire

**Polymer types**

- PP, LD, LLD, HD,
- PVC (individual check necessary)
- PET (individual check necessary)
HG – Die Face Pelletising system
Not only pelletising, why not make a product direct from recyclate!

- Flat sheet for different packaging
- Direct extrusion of fibres up to 5000 lb/hr
- Direct blown film production
- Core extrusion lines
- PET / PE compounds for different end products, i.e., pallets, display trays, boxes and containers...
EREEMA PET In-line Sheet
Injection/compression moulding system making large moulded products direct from recyclate
Inline Viscometer / MFI measurement
We have completed our largest BtB system

**Vacurema “Prime“ 2021 – Multi KT** with a capacity of up to 6000 lbs/hr, capable of raising IV to BtB quality with “in line“ strand cut shape pellet crystalisation using only internally generated energy
This presentation was prepared by

Mike Horrocks
Erema North America Inc.
Unit # 2, Old Right Road
Ipswich
MA 01938
Tel # 1 978 356 3771
Cell # 1 978 335 0801