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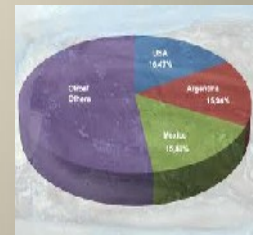
# Shredders and Grinders for Ag Plastics

## What to look for and what to avoid



# Some items to consider before getting started

- Will this venture make money
- Do I have the facility to get started
- Do I have markets to sell my product



# What is the material you will be dealing with?

## Are you working with.....

**Clean Material.....**

**.....Dirty Material**



Plastic Film Bales.....



.....Loose Film



Loose Bales.....



.....Loose Bottles



Hard Scrap.....



.....Bulky Scrap



Mixed Color Bales.....



.....Multiple Mixed Scrap



# Now To Pick Our Machine(s)

**Now that we have identified our material what shredder and works best? Which comes up short?**

**Do I use an electric drive machine?**

## PLUS

- Usually are less expensive
- Most often use less floor space
- Less hydraulic fluid involved (cleanliness)

## MINUS

- High reversal applications can damage the electronic components
- Reversal cycles are longer, reducing potential throughput
- Torque is fixed based on motor horse power

**Do I use a Hydraulic drive machine?**

## PLUS

- Torque and speed can be changed by increasing pressure and flow (hi/low)
- Can handle instantaneous reversals, low inertia in hydraulic motors (no broken gearbox's)
- No electrical component damage

## MINUS

- Hydraulic oil can be messy
- Usually takes up more floor space
- Usually a higher initial cost



Do we use a Quad Shaft Shredder?



Do we use a Granulator?



Do we use a Single Shaft Shredder?



Do we use a Two Shaft Shredder?

# Idiosyncrasies Of Each Machine

	Quad Shaft	Two Shaft	Single Shaft	Granulator
Screen	Yes	No	Yes	Yes
Contamination Tolerance	Excellent	Excellent	Fair	Very Poor
Input Size Capability	Bales/Loose	Bales/Loose	Bales/Loose	Loose Material usually less than 2"
Maintenance required	Low	Low	Medium	High
Discharge size	2" Plus	No Sizing	1" Plus	¼" Plus
Best Suited For Material That Is	Dirty	Can Be Very Dirty	Clean Material	Very Clean Material





# Now That We Know What Shredder(s) To Use. Lets Go Back To Markets

- Do we minimize our processing and sell to Fuel users?
- Do we minimize our processing and sell to those who will further process the material?
- Do we produce a finished pellet?
- Do we try to make internal products from our material (speed bumps, lumber etc.)?
- Do we establish a toll grinding service to process other scrap producer's material?
- Do we offer complimentary services for our product (pick up/delivery transportation)?

# Complimentary Equipment For Ag Plastics Shredding Operations

- Infeed/discharge conveyors
- Overbelt Magnets
- Drum Magnets
- Density Separators
- Destoners
- Washing Systems
- Pneumatic Conveyance Equipment
- Super Sack Bagging Stations
- Plate Magnets
- Metal Detectors
- Float Tank Separators
- Drying Systems
- Air Gap Conveyors
- Trommel Screens
- Dust Collection Equipment
- Vibratory Screeners





# Thank You

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