

Refining The Product Line To Meet Emerging Markets

By Jerry Morey, President
Bandit Industries, Inc.



Biomass Energy

- Biomass plants closing or converting to natural gas
- Foreign pellet markets are strong!



Biomass makes more sense

- Improves our forests
- Harvests trees that would rot and produce CO2 and methane gas
- Wind and Solar dominate US renewable energy market
 - Inconsistent energy
 - Subsidies paid to **foreign-owned** companies



True cost of wind energy is \$.15 per kilowatt hour*

**A WINDFARM
HERE!?!...NO**

Source: Texas Tech University Study, 2013

Even without biomass contracts

- Economy is improving
- New construction is happening
- Pulpwood markets are increasing



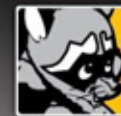
- Land clearing



- Pipeline and utility lines



- Storm cleanup



Bandit
INDUSTRIES, INC.



Bandit Builds...

LAND CLEARING EQUIPMENT FOR THE PROS

Model 3590 Track

- Hand-fed and whole tree chippers available with self-propelled track undercarriages (Except the 3590XL)
- Self-propelled Model 3590 now available



Model 3590 Track
30" capacity
875 HP



Model 3090 and 3090 Track

Model 3090 Track
24" capacity
800 HP



- Redesigned Model 3090 to be narrower
- Easier to tow and maneuver
- 3090 Track is extremely popular in mountainous terrain



Model 20XP

- The Model 20XP extremely popular, especially the track unit
- Used in wildfire cleanup
- Backhoe-style loader
- Kesla telescoping loaders now available



Chipper with Kesla Loader



BTC-300



96" wide mower
300-350 HP
5.5 psi

- Bandit's track carrier with 96" wide mower head or 40" diameter stump grinder wheel
- CAT, Volvo, John Deere engines
- Popular among land clearing pros



BTC-300

- Converting the competition's loyal customers
- Separate hydraulics
- Great visibility
- Quiet, comfy cabs
- Grinder has no bearings
- Unit built to last



New BTC-150

- 148 HP CAT Tier 4
- 72" wide mower head
- 30" stumper wheel
- Comfortable cab
- Exceptional visibility
- Lightest in class, low ground pressure

5.1 psi ground pressure



4.8 psi ground pressure



60FM and 72FM skid steer attachments



- 60" and 72" wide mulcher heads
- Aggressive, durable teeth
- Operates from skid-steer's high flow hydraulics
- Ideal for thinning pine



The Beast[®] horizontal grinder

- Used in heavy-duty land clearing operations
- Supplying biomass in foreign markets
- Track, towable or stationary
- Electric power option

Model 2460XP
24" capacity
520-550 HP



Chipper Drum Option



- Whole Tree Chipper style drum available
- Supplies biomass markets around the world
- Two drum options
 - Micro chip to 1" chip
 - $\frac{3}{4}$ " chip to 2" chip

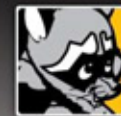


Micro chips from Whole Tree Chippers

- Micro chip drums available on larger whole tree chippers
 - 22" capacity 2590
755 hp
 - 24" capacity 3090
800 hp
 - 30" capacity 3590
1,050 hp

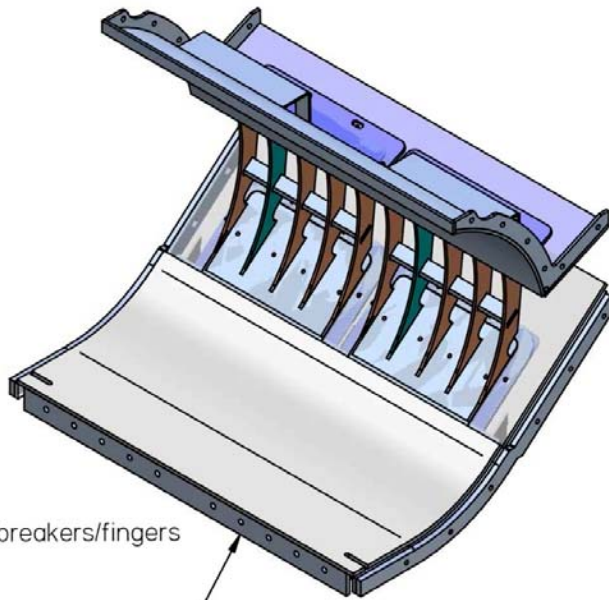


Micro chips



Bandit
INDUSTRIES, INC.

Bandit's Card Breaker System



Drop in style breakers/fingers

Belly band and bolt in hood with breakers installed.

- More effective
- Easier to maintain
- Fully load trailer with 3/8" micro chip
- No Aux. blower needed
 - Robs 100 horsepower
 - Increase fuel economy



Bandit's Clean Feed System

- Doesn't discharge material under the infeed
- Increases chip yield by 5 percent!



New Infeed Chute Design



- New fish mouth design
- Easier to feed
- Available on all Bandit whole tree chippers



Mulch and Compost

- Biomass producers entering mulch and compost markets
- The Beast improvements increase productivity



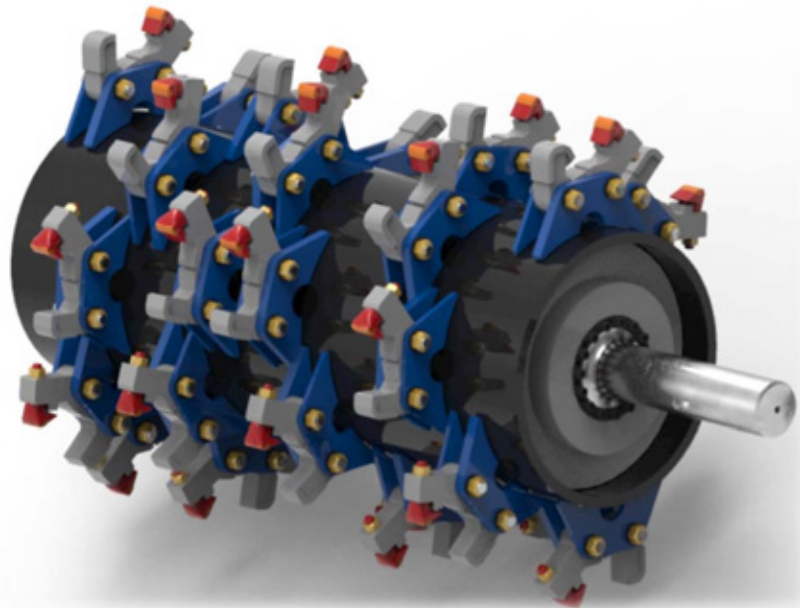
25 Significant Improvements

Including:

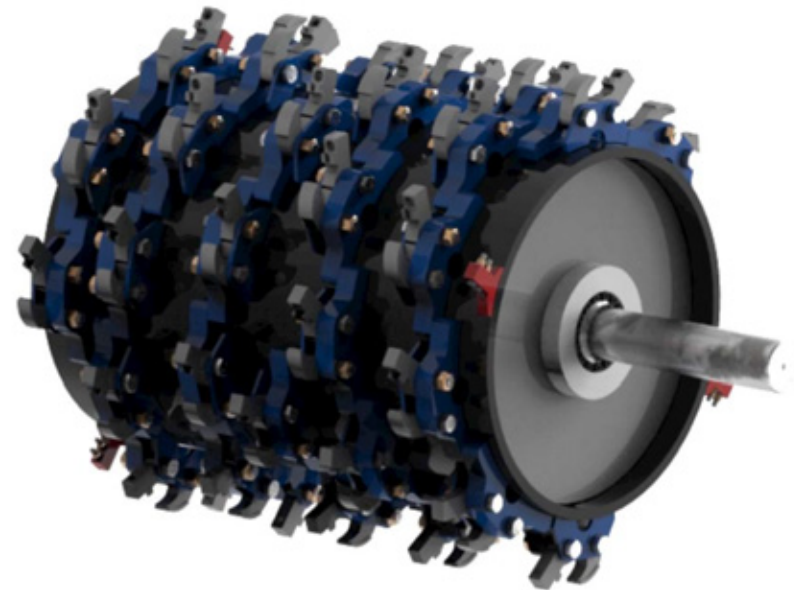
- Augers improved
- XL feedwheel
- Grinding chamber improvements
- Stronger infeed chain
- Larger screening area
- Rapid Advance Feed System



Mill Options for The Beast



Standard 30-tooth mill
2680XP and 3680XP



Standard 48-tooth mill
4680XP



Model 2460XP



- Towable or track
- 24" x 60" opening
- Productive
 - One unit is grinding six 30-ton loads of sawmill waste per day
- Used in tree care, mulch producing and forest products industries



Color Max coloring system

- Produce beautiful colored mulch
- 300+ yards per hour
- 30% less water
- 25% less color
- Better coverage
- Virtually no color spillage



Grinding plastic



- Effectively cut large-diameter heavy walled plastic pipe
- Reduce to granular size for recycling



Grinding plastic

- New system to grind variety of plastics, including bags, tape, labels, etc...
- Used to fire a cement kiln or biomass boiler
- One Beast replaced a multi-million dollar installation that included shredders, grinders and screens
- In a single pass!



Stationary chippers



- 3 sizes offered
 - 17 ¾" x 24 ½"
 - 24 ½" x 26 ¼"
 - 26 ¼" x 30"
- Feed system controls material
- Great chip quality
- Much greater knife life



2590 Stationary Chipper

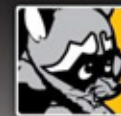


Compact portable/stationary grinder

- Bandit developing a grinding head
- Similar to The Beast
- Produce shredded mulch or chips
- Screens improve uniformity of end product
- Produce colored mulch!

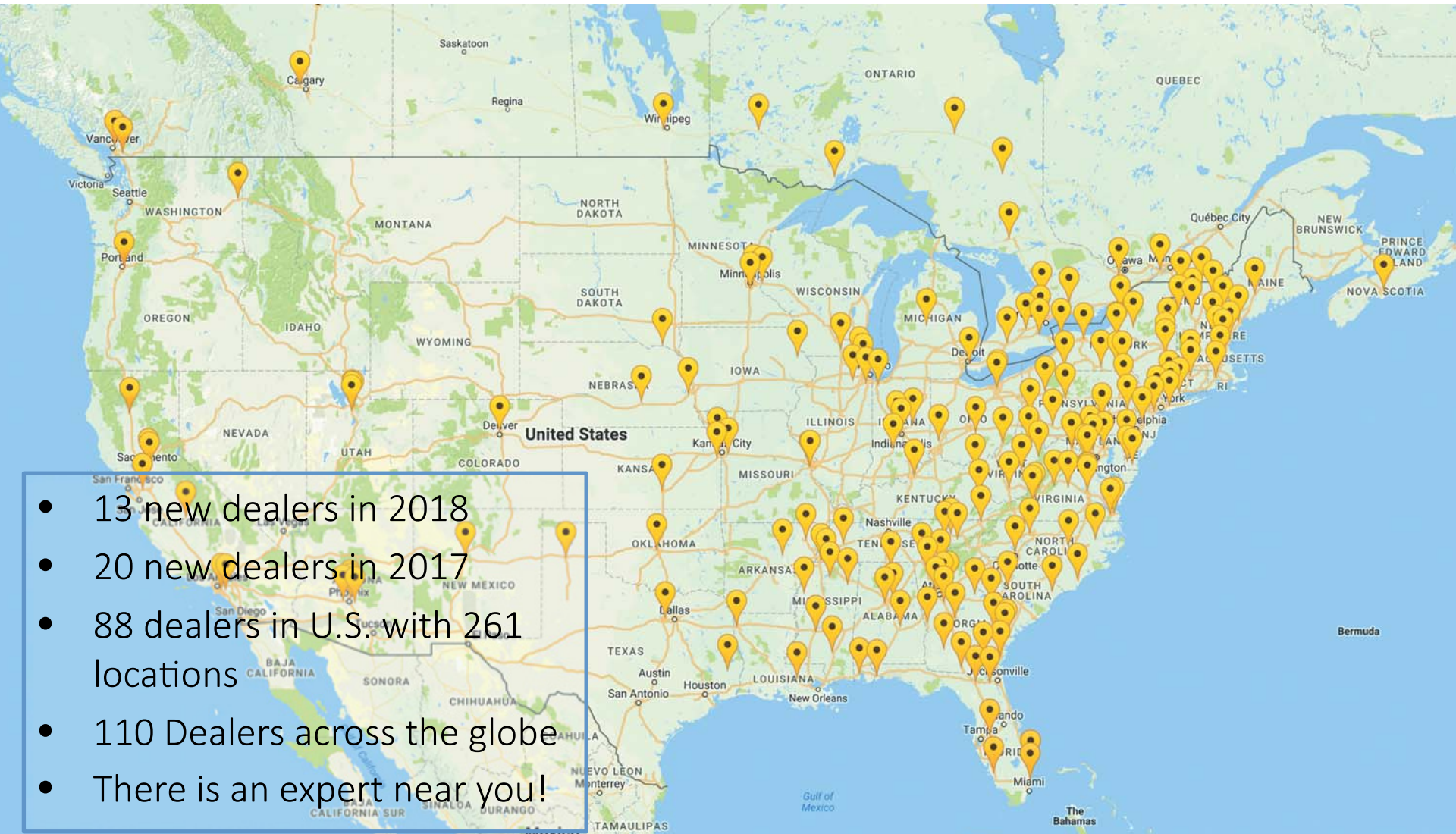


Plant Expansions



Bandit
INDUSTRIES, INC.

Expanding dealer network



- 13 new dealers in 2018
- 20 new dealers in 2017
- 88 dealers in U.S. with 261 locations
- 110 Dealers across the globe
- There is an expert near you!

Bandit is helping our customers

- Recently moved a Minnesota customer's 3590XL to one of the largest logging contractors in Florida



Bandit and ARJES



- Bandit joint venture
- Bringing Arjes slow-speed shredders to the U.S. and other parts of the world
- Shred anything, including cars and tires
- Crush stones



Bandit is here to help

- 460 dedicated employees
- 20,000 Bandit customers
- 65,000+ machines
- 35 Years in Business!



Bandit Industries



Bandit's Main Plant



Bandit's North Winn Facility





Bandit

INDUSTRIES, INC.

Thank You!

