MANURE SEPARATION SYSTEM

717-261-5711
www.NCSYSINC.com
About NCS

Since 1994 NCS has provided sustainable solutions for agriculture and food waste management. It has always been our goal to provide equipment systems and seamless support to our customers. As the North American Distributor for Cri-Man equipment we offer a variety of options.

THE GREEN BEDDING SYSTEM

Extracting fiber from slurry for cubicle bedding may sound like a strange idea, but the trend is catching on all over the world. Farmers are seeing the difference by reducing mastitis levels and producing healthier milk. Cow comfort is a priority to dairies and our Cow Fibre Recovery System is just that.

Because the bedding does not have to be purchased it is liberally dispensed into the cubicles. The comfort is encouraging cows to lie down longer and less hock damaging. Therefore, cows produce higher yields, live longer, and the udders in particular also cleaner.

KEY BENEFITS:

- Make more bedding than you can use.
- Reduce solids in your storage.
- Increase liquid storage capacity.
- Reduce Phosphorus content of liquid.
- No need to purchase bedding.
- Buy a complete engineered system with fully automated controls.
- Thousands of installations worldwide.
Professionalism and Reliability... through time

Product innovation
On-time delivery
Technical assistance
Extended product durability
Technical know-how

Mission
Installation Example #1

100 COWS
PENNSYLVANIA DAIRY

Equipment

CRI-MAN SM 260-100 Dry Matter Press
CRI-MAN PTS 7.5 Pump
CRI-MAN TBM 7.5 Mixer
Installation Example #2

Equipment

CRI-MAN SM 260-100 Dry Matter Press
CRI-MAN PTS 7.5 Pump
CRI-MAN TBM 7.5 Mixer
Installation Example #3

Equipment

CRI-MAN SM 260-100 PRO- FA Dry Matter Press
CRI-MAN TBM 7.5 Mixer
Rotary Composter Drum

2500 COWS
CALIFORNIA DAIRY
Installation Example #4

3800 COWS
NEW YORK DAIRY

Equipment

CRI-MAN SM 260-100 PRO -FA Dry Matter Press
CRI-MAN PTEM 9-100 Pump
CRI-MAN PTE 18.5-150-4 Transfer Pump
CRI-MAN ETO 9-100 Horizontal Pump
**Double Chopping System**
The first chopping system consists of two chrome steel blades fixed on the body inlet, acting in contrast to a spiral conveyor made from high grade cast iron and fitted to the motor shaft. Both materials undergo specific hardening treatments with a speed of 1750 rpm. This is the first and only chopping system that operates at over 170 cuts per second!

**Double Chopping System**
The second chopping system consists of a shear cutting plate in special high grade cast iron that acts in contrast to the sharp profile impeller blades also in high grade iron. Both materials undergo specific hardening treatments.

**Double Mechanical Seals**
Mechanical seals in silicon carbide and graphite-ceramic.

**Thermal Probe Sensors**
Double thermal probes, immersed in the stator, prevent overheating of the electric motor and preserve its operating life.

**Humidity Probe (on request)**
Humidity probe installed in the oil chamber to prevent damage in the case of leakage.

**High Efficiency Hydraulics**
Hydraulics designed to correlate high efficiency (up to 77%) with high chopping and anti-clogging performance. Data according to UNI EN ISO 9906 Standard.
High Axial Thrust Efficiency
Electric motor, mechanical components and propeller profile designed to achieve efficiency in terms of axial thrust and low energy consumption. Data according to ISO 21630 Standard.

Planetary Gearbox (TBM Series only)
Reduced energy consumption and longer gear life.

Double Sealing System
Sealing system composed of two lip seals on a ceramic bushing (TBM series only) and tungsten carbide mechanical seal.

Thermal Probe Sensors
Double thermal probes, immersed in the stator, prevent overheating of the electric motor and preserve its operation life.

Humidity Probe (on request)
Humidity probe installed in the gearbox to prevent damage in the case of leakage.

Self-cleaning Propeller
Propeller in stainless steel with self-cleaning profile.
**Screen Inspection Window**
Top inspection window for quick and easy checking that the screen is clean.

**Screw Treatment**
Innovative coating treatment with a mixture of tungsten carbide and metallic matrix that ensures very high hardness and low brittleness.

**Screens**
Geometrically structured stainless steel screens with strength and chemical composition of materials specifically designed for each application.

**Side Supported Screw Front**
A front bearing structure provides a perfect guide for the screw, reducing wear on the screen.

**Planetary Gearbox**
Reduced energy consumption and longer gear life.

**Sealing Inspection Window**
Allows visual checks for leakage, safeguarding the integrity of the gearbox in this event.

**Sealing System**
System of three lip seals with grease for a secure seal between the screw press separator and the gearbox.

**Smart Piping Input**
Inlet piping designed to drain empty and avoid possible freezing when the machine is inactive.
HBC1000 up to 1000 head
HBC500 up to 500 head

About:
- Cylinder container housing the stabilization process
- Mixing system
- Fan air injection
- Fan extraction steam
- Temperature sensors (for process control)
- Load cells (for process control)
- Electronic control system
- Capacity

Advantages:
- Cost savings
- Daily operation
- Consistent quality
- Easy to use
- Improved, more economic management of slurry
- No additional storage requirements
- Extremely limited overall dimensions

Operation Performance:
- Production: up to 8t/day of hygienized solids.
- Hygienisation: guaranteed pasteurization system (1 hour at 158°F).
- Drying: up to 55% of dry material (by adjustment of the HRT).
ERNEST BERT, SR.
SALES / MARKETING

130 Industrial Drive • Chambersburg, PA 17201 • www.ncsysinc.com
Ernie@rydersupply.com • Office: 717.261.5711 • Cell: 717.729.4371

ERNEST BERT, JR.
SALES / MARKETING

130 Industrial Drive • Chambersburg, PA 17201 • www.ncsysinc.com
erniejr@rydersupply.com • Office: 717.261.5711 • Cell: 717.491.6346

PATRICK TOMS

130 Industrial Drive • Chambersburg, PA 17201 • ncsysinc.com
ptoms@ncsysinc.com • Office: 717.261.5711 • Cell: 717.816.3848