



PROFESSIONALS AT WORK

**CRI-MAN**®



EN

GENERAL CATALOGUE

The Best  
Choice

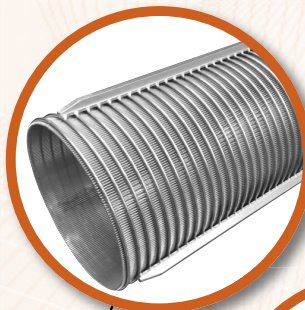


# Main strengths: Separators



### **Screw treatment**

Innovative coating treatment with mixtures of tungsten carbide and metallic matrix which ensures very high hardness and low brittleness.



### **Screens**

Stainless steel screens with geometrical structure, strength and material chemical composition specifically designed for each application.



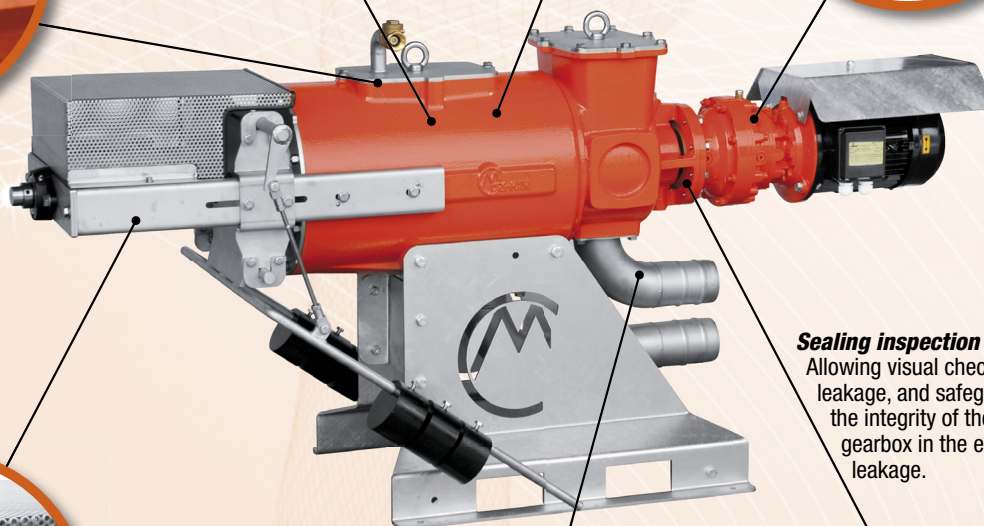
### **Screen inspection window**

Top inspection window for easy and quick check of screen cleaning.



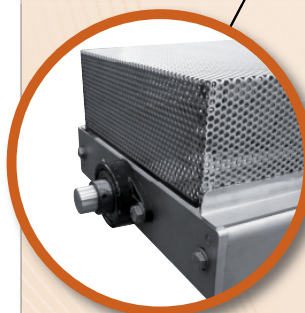
### **Planetary gearbox**

Reduced energy consumption and longer gear life.



### **Sealing inspection window**

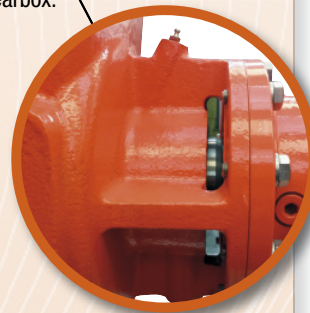
Allowing visual check for leakage, and safeguarding the integrity of the gearbox in the event of leakage.



### **Front side supported screw**

Front bearing structure for a perfect guide of the screw which reduces the wearing on the screen.

**Sealing system**  
System of three lip seals with grease for a secure sealing between the separator and the gearbox.



### **Smart Piping input**

Inlet piping designed to leave them empty, and avoid the possible freezing, during the inactivity of the machine.



**The Best Choice**



# Main strengths: Hygienizing Biocell

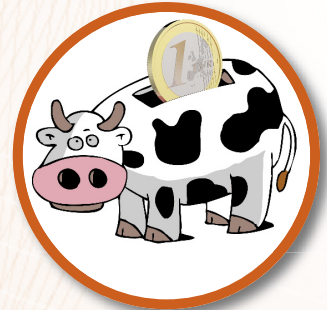
## **Consistent quality**

The machine's electronic control system ensures hygienisation of the material through a pasteurization process.



## **Financial savings**

By balancing the savings obtained from using hygienized solids in the place of traditional bedding (straw, sand, sawdust, etc.) it can easily be verified that returns on the investment are achieved within a few years.



## **Easy to use**

The machine is simple to assemble (install) and easy to use thanks to its "user friendly" control system.



## **Improved and more economic management of manure**

The quantity of manure to be managed is reduced since traditional bedding materials are not present.

## **Low energy consumption**

Maximum power consumption 6,5 kW.

## **Additional storage is not required**

The hygienized solid material is produced daily and so additional storage is not required (in barns) as is the case with traditional bedding materials.



## **Option of remote control**

It is possible to control the operation of the machine from an office PC (temperature, weight, unloaded material, alarms history, etc.).



## **Very compact size**

The overall dimensions of the machine are very small compared to competing systems.



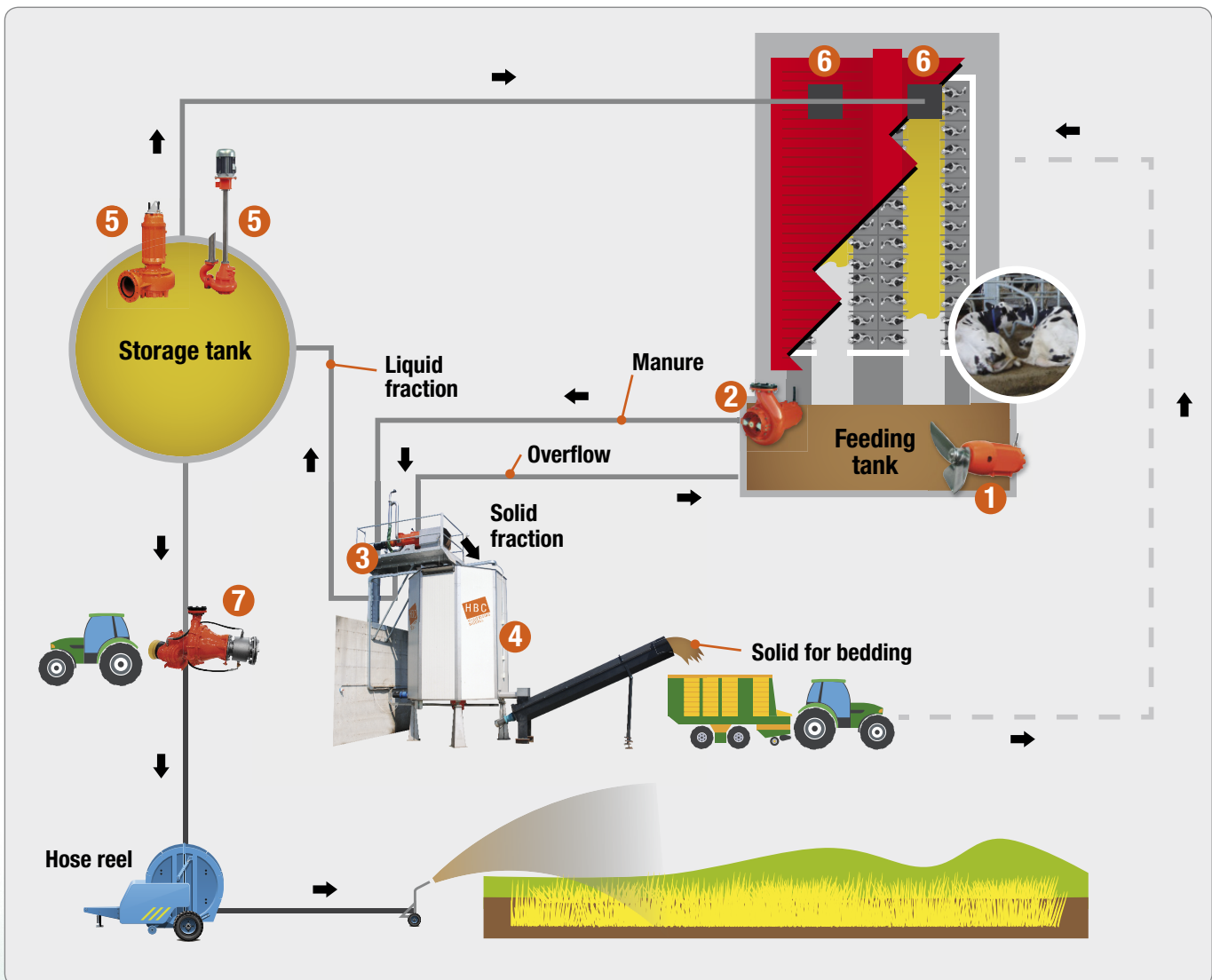
## **Easy to transport**

The machine is modular and so a 20 foot container is sufficient for transport.





# Livestock manure management



## Application of CRI-MAN products in a typical Livestock

1. TBM mixer to homogenize the manure
2. PTS submersible pump to feed the separator
3. SM separator to divide solid fraction from liquid fraction
4. HBC hygienized biocell for bedding recovery
5. PTE vertical pump or PTS submersible pump for flushing
6. VF flushing valve for flushing
7. PTH pump for tractor

## Why to divide solid fraction from liquid fraction?

### Benefits of Solid Fraction

- To use as Compost in Greenhouses, Fruit crops, etc.
- To use in the field before seeding because the Nitrogen, present in Organic form in the solid fraction, is slowly absorbed by the ground
- Reduction of methane and odour emissions, due to aerobic stabilization of Solid Fraction
- To use as bedding in the barn (instead of straw)
- Easy and cheap to transport

### Benefits of Liquid Fraction

- Can be used for Flushing of barns, channels, etc.
- Can be used for Fertigation in the field
- Volume reduction of the Lagoon for Liquid Fraction recovery (due to the absence of Solid Fraction volume)
- In the Liquid Fraction the Nitrogen is in Ammoniac form, that means fast absorption by the ground. Therefore, it can be used in the field after seeding, during crop growth.
- Reduction of Ammoniac NH<sub>3</sub> emission because the Liquid Fraction penetrates in the ground faster
- Can be used in the Nitrogen Removing Plant



# Livestock manure management



Check on video

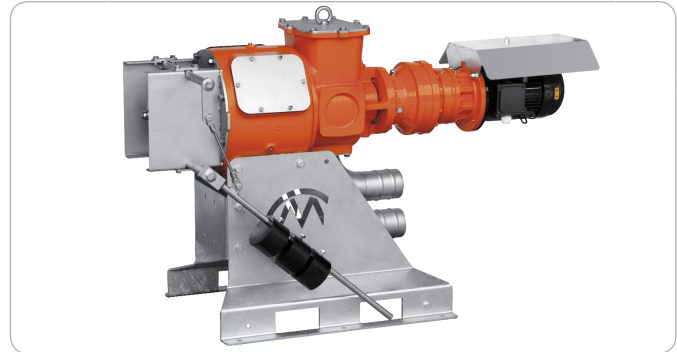
# Separators

## SM260 MINI SERIES

### Technical specifications:

- Screw in AISI 304 treated stainless steel
  - Standard Screen in AISI 316 stainless steel
  - Planetary gear box
  - Sealing system with three lip seals (mechanical seal on request)
- |                        |                            |                    |
|------------------------|----------------------------|--------------------|
| • Capacity:            | 4,5 - 18 m <sup>3</sup> /h | 20 - 79 US gpm     |
| • Rpm:                 | 20 (50Hz)                  | 24 (60Hz)          |
| • Motor power:         | 3 kW                       | 4 HP               |
| • Screen mesh:         | 0,25 - 1 mm                | 0,01 - 0,04 inches |
| • Up to 30% Dry Matter |                            |                    |

For farms up to 300 cows

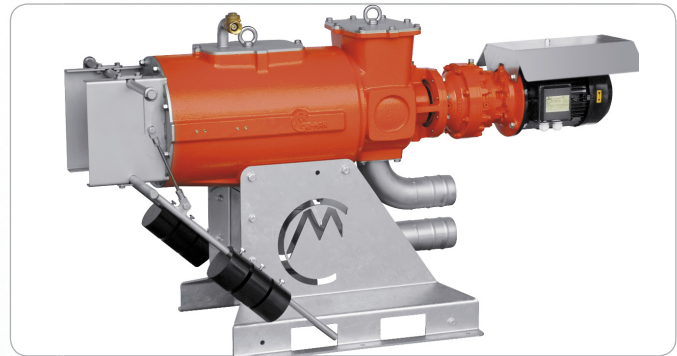


## SM260 BASIC SERIES

### Technical specifications:

- Screw in AISI 304 treated stainless steel
  - Standard Screen in AISI 316 stainless steel
  - Planetary gear box
  - Sealing system with three lip seals (mechanical seal on request)
- |                        |                          |                    |
|------------------------|--------------------------|--------------------|
| • Capacity:            | 4 - 50 m <sup>3</sup> /h | 18 - 220 US gpm    |
| • Rpm:                 | 33 (50Hz)                | 40 (60Hz)          |
| • Motor power:         | 4 kW                     | 5,4 HP             |
| • Screen mesh:         | 0,25 - 1 mm              | 0,01 - 0,04 inches |
| • Up to 30% Dry Matter |                          |                    |

For farms from 300 - 800 cows

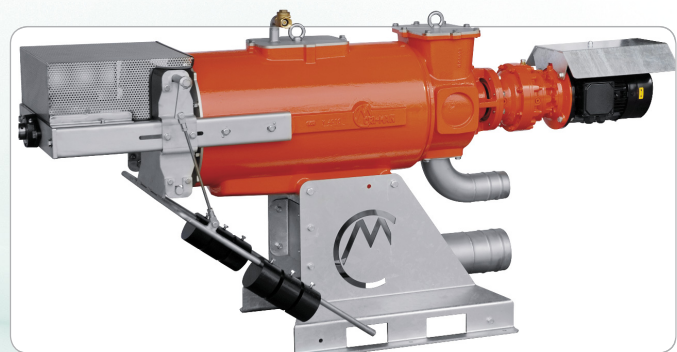


## SM260 PROFESSIONAL SERIES

### Technical specifications:

- Screw in AISI 304 treated stainless steel
  - Front side supported screw
  - Standard Screen in AISI 316 stainless steel
  - Planetary gear box
  - Sealing system with three lip seals (mechanical seal on request)
- |                        |                          |                    |
|------------------------|--------------------------|--------------------|
| • Capacity:            | 4 - 50 m <sup>3</sup> /h | 18 - 220 US gpm    |
| • Rpm:                 | 33 (50Hz)                | 40 (60Hz)          |
| • Motor power:         | 4 kW                     | 5,4 HP             |
| • Screen mesh:         | 0,25 - 1 mm              | 0,01 - 0,04 inches |
| • Up to 30% Dry Matter |                          |                    |

For farms from 700 - 1200 cows and Biogas Plant.

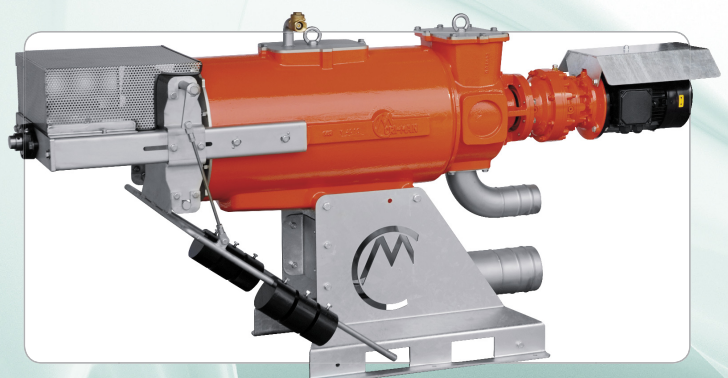


## SM300 PROFESSIONAL SERIES

### Technical specifications:

- Screw in AISI 304 treated stainless steel
  - Front side supported screw
  - Standard Screen in AISI 316 stainless steel (Heavy Duty screen on request)
  - Planetary gear box
  - Sealing system with three lip seals (mechanical seal on request)
- |                        |                          |                    |
|------------------------|--------------------------|--------------------|
| • Capacity:            | 6 - 72 m <sup>3</sup> /h | 26 - 317 US gpm    |
| • Rpm:                 | 33 (50Hz)                | 40 (60Hz)          |
| • Motor power:         | 5,5 kW                   | 7,4 HP             |
| • Screen mesh:         | 0,25 - 1 mm              | 0,01 - 0,04 inches |
| • Up to 30% Dry Matter |                          |                    |

For farms over 1000 cows and Biogas Plant





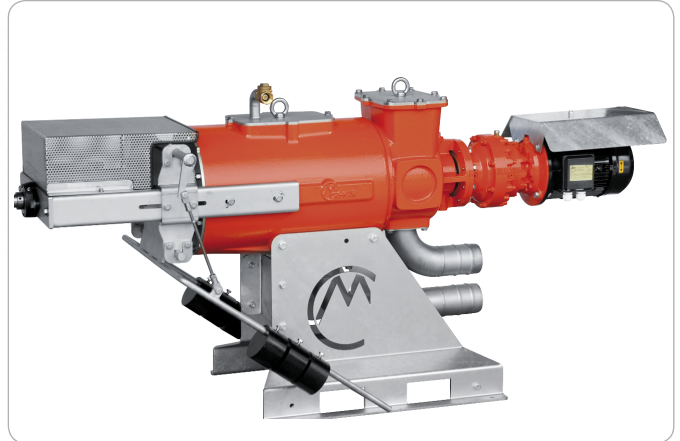
# Separators

## SM260 DM DRY MATTER SERIES

### Technical specifications:

- Screw in AISI 304 treated stainless steel
  - Front side supported screw
  - Heavy Duty Screen in AISI 316 stainless steel
  - Planetary gear box
  - Sealing system with three lip seals (mechanical seal on request)
- |                |                          |                    |
|----------------|--------------------------|--------------------|
| • Capacity:    | 4 - 22 m <sup>3</sup> /h | 18 - 97 US gpm     |
| • Rpm:         | 14 (50Hz)                | 17 (60Hz)          |
| • Motor power: | 5,5 kW                   | 7,4 HP             |
| • Screen mesh: | 0,50 - 1 mm              | 0,02 - 0,04 inches |
- Up to 35% Dry Matter

**Suitable to obtain a drier solid fraction.  
For farms up to 400 cows**

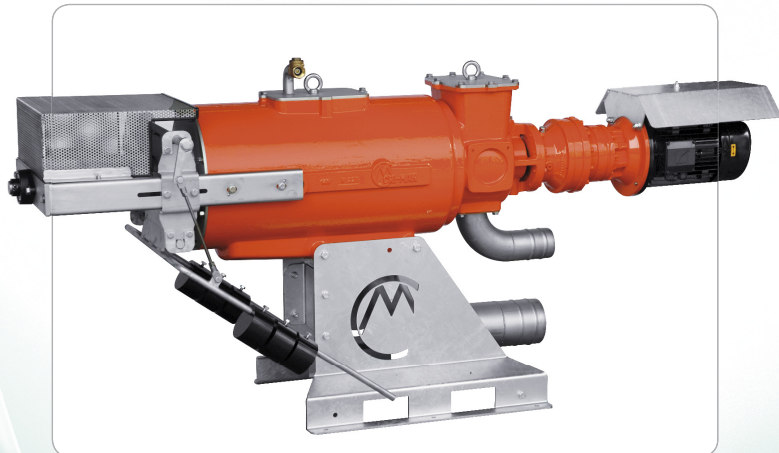


## SM260FA DM DRY MATTER SERIES

### Technical specifications:

- Screw in AISI 304 treated stainless steel
  - Front side supported screw
  - Heavy Duty main Screen in AISI 316 stainless steel
  - Heavy Heavy Duty Auxiliary Screen in AISI 316 stainless steel
  - Planetary gear box
  - Sealing system with three lip seals (mechanical seal on request)
- |                |                          |                    |
|----------------|--------------------------|--------------------|
| • Capacity:    | 4 - 42 m <sup>3</sup> /h | 18 - 185 US gpm    |
| • Rpm:         | 20 (50Hz)                | 24 (60Hz)          |
| • Motor power: | 7,5 kW                   | 10 HP              |
| • Screen mesh: | 0,50 - 0,75 mm           | 0,02 - 0,03 inches |
- Up to 35% Dry Matter

**Suitable to obtain a drier solid fraction.  
For farms from 300 - 800 cows**

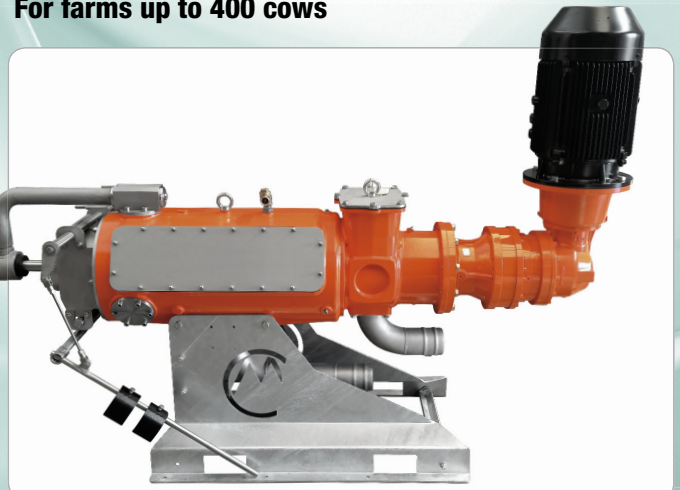


## SM260FA HDM HIGH DRY MATTER SERIES

### Technical specifications:

- Screw in AISI 304 treated stainless steel
  - New front side supported screw
  - Heavy Duty main Screen in AISI 316 stainless steel
  - Reinforced Heavy Heavy Duty Auxiliary Screen in AISI 316 stainless steel
  - Planetary gear box
  - Sealing system with three lip seals (mechanical seal on request)
- |               |                            |                 |
|---------------|----------------------------|-----------------|
| • Capacity    | up to 12 m <sup>3</sup> /h | up to 50 US gpm |
| • Rpm         | 11 (50Hz)                  | 14 (60Hz)       |
| • Motor power | max 11 kW                  | max 15 HP       |
| • Screen mesh | 1,00 mm                    |                 |
- Up to 38% Dry Matter

**Suitable to obtain a drier solid fraction.  
For farms up to 400 cows**



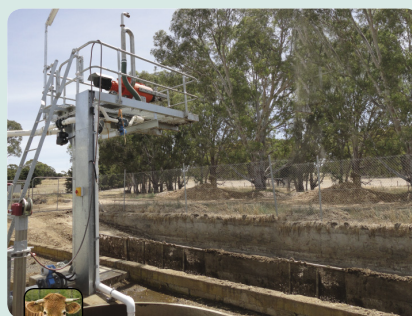
# Plants installed



150 - Italy



50.000 - Russia



500 - Australia



850 - Italy



5.000 - China



150 - Finland



300 - Romania



1000 - Italy



6.000 - China



10.000 - Russia



108.000 - Russia



50 - Switzerland



3.000 - Estonia



3.000 - Iran



8.000 - North Korea