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FEED AND BIOFUEL  
**PELLET MILL**

SPROUT 26LM3

**ANDRITZ**

ENGINEERED SUCCESS

# The 26LM3 - the newest addition to the LM series of Sprout pellet mills

The New 26LM3 is a game-changer for the pelleting industry. ANDRITZ LM Series pellet mills are the longest-running, most dependable pellet mills on the market, and now the newly designed 26LM3 has even greater capacity and longer life. The new generation V-belt driven mill has fewer parts but even more capacity, so it runs smoother, quieter, and experiences less wear, even in the harshest conditions. This highly dependable mill produces pellets at the minimum cost per ton, increasing margins for our customers.

## THE LOWEST COST OF OWNERSHIP

**Main shaft** - The main shaft, main shaft bearing, and die housing of the new 26LM3 are now more substantial and more durable than ever before. The larger diameter of the shaft and larger bearings provide durability for years of trouble-free use in the most demanding applications. Previously, the LM series main shaft utilized a keyway design. The new shaft is cast into one contiguous shape to provide strength and rigidity and is splined for a more efficient transfer of torque and improved roll support. Each shaft is machined to exact tolerances and heat-treated for superior wear resistance.

**Replaceable wear rings** - The die housing and the die stiffener feature a replaceable, split wear ring, which ensures the longevity of these critical components while reducing wear part costs. As a bonus, no special tools are necessary for replacement.

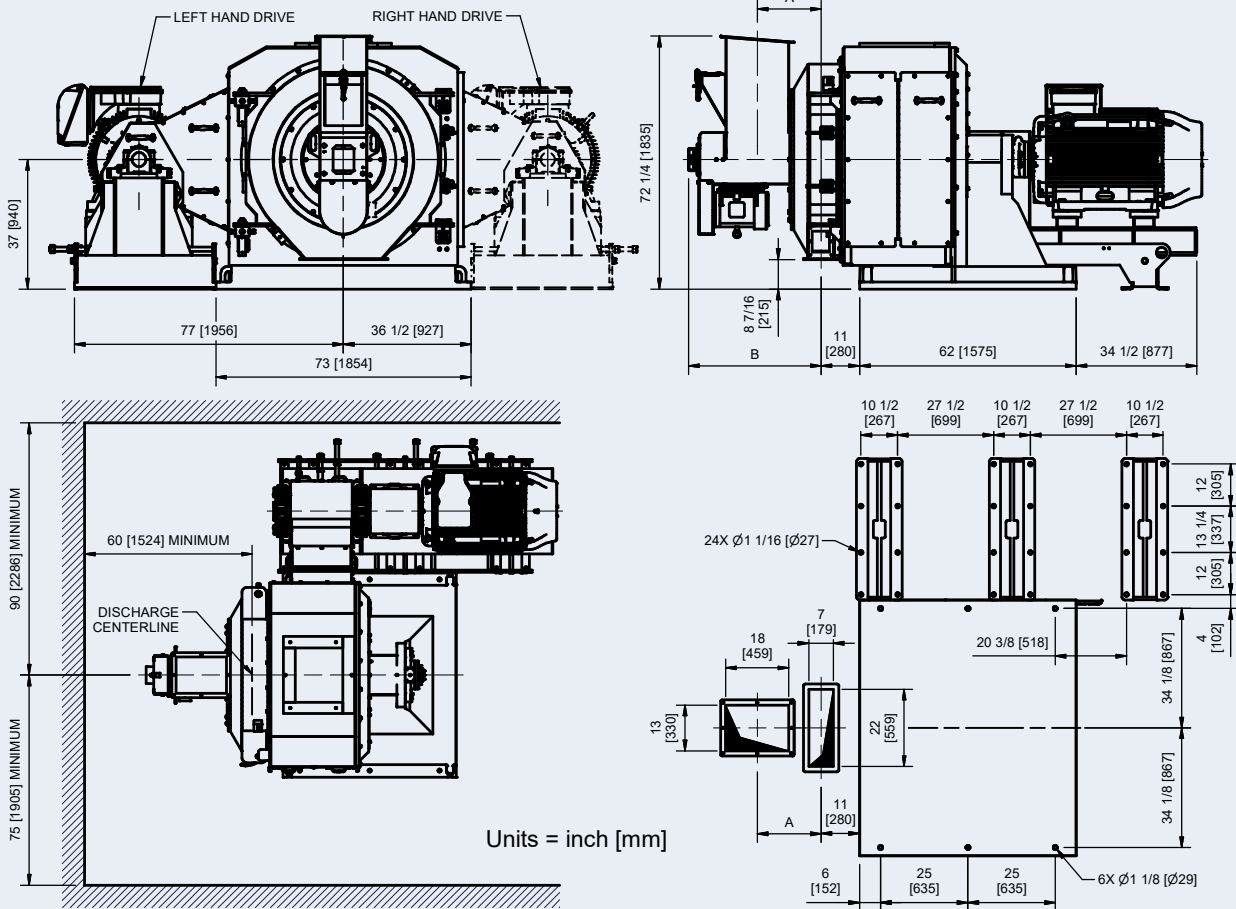
**Light Density Centri-feeder®** - The exclusive, trademarked design of the ANDRITZ Centri-Feeder® provides 360 degrees of feed distribution around the die's surface, helping maintain the die cavity balance and provides improved pellet quality. When feedstock distribution is balanced, mill capacity increases and maintenance costs are reduced.

To maintain this balance, the ANDRITZ Centri-feeder® allows for precise control of material from the feeder-conditioner, right up to the die face's roll nip. The simple yet effective design ensures a continuous, uniform layer of material across the die face, minimizing harmful surging. This allows maximum feedstock conditioning for the highest pellet quality and production rate while reducing die wear and increased roll bearing life.

**The ANDRITZ 26LM3 pellet mill** is a machine that produces quality pellets for a range of applications. The number 26 represents the inside of the die, which is available in two die widths. The 26LM3 is the narrower of the two. The wider die is identified as 26WLM3. The die fit diameter and die bolt size enhances LM Series mills by making them capable of handling the harshest applications, including wood waste and wood-plastic composites. The 26LM3 pellet mill utilizes a single speed motor directly coupled to a V-belt drive. A range of die speeds can be obtained by varying the jackshaft pulley diameter and the motor RPM.



Door can hinge to either side



Units = inch [mm]

Units - inch [mm]

## TECHNICAL DATA

	26LM3	26WLM3
Main motor	Up to 450 HP [336 kW], 1,200 RPM	Up to 450 HP [336 kW], 1,200 RPM
Die	Inside diameter: 26 in. [660mm] Working width: 4 in. [102mm] Die area: 327 sq.in. [2110 cm <sup>2</sup> ]	Inside diameter: 26 in. [660mm] Working width: 6 in. [152mm] Die area: 490 sq.in. [3161 cm <sup>2</sup> ]
Weight	Pellet mill: 15,000 lb [6470 kg] Centri-feeder®: 880 lb [318 kg] Hoist: 450 lb [272 kg]	Pellet mill: 15,300 lb [6605 kg] Centri-feeder®: 880 lb [318 kg] Hoist: 450 lb [272 kg]
(without motor)	Jackshaft assembly: 3,390 lb [1620 kg]	Jackshaft assembly: 3,390 lb [1620 kg]
Dimension variables	A: 18-1/4 in. [463mm] B: 38-13/16 in. [986mm]	A: 19-1/4 in. [489mm] B: 38-13/16 in. [986mm]



Improved roll holding plate support



Hand pump



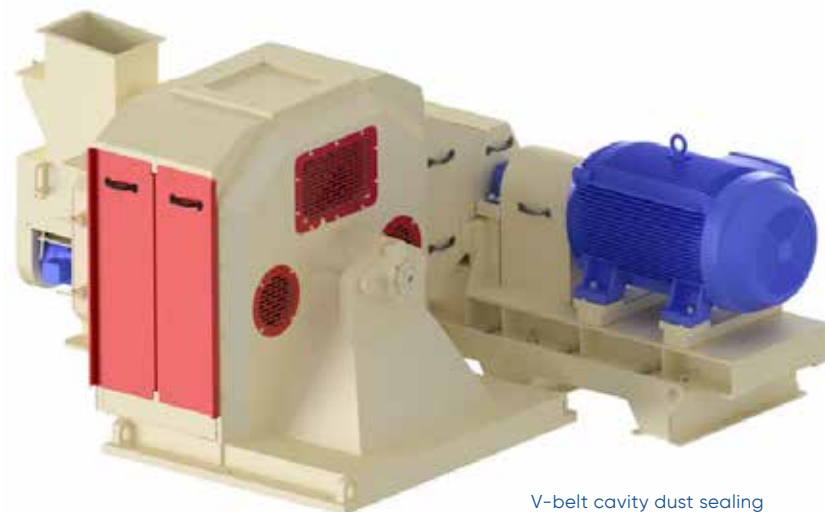
Larger shaft diameter with splines



New bearing adjustment



Shear pin retainer clip design



V-belt cavity dust sealing

## EASE OF MAINTENANCE

### Motors up to 450 Hp at 165 rpm –

Numerous design changes were made to promote increased capacity while maintaining safety and reducing maintenance. Power capacity has been increased to a maximum of 450 HP at the conventional biofuel die speed of 165 RPM. Rear bearing spacers with grease inlet ports have been added, increasing bearing life and reducing maintenance. Additionally, the roll holding plate to the mainshaft connection has been redesigned to provide extra support for the roll assemblies, as power requirements have increased.

**Die changes** – Typical die changes can take several hours. Design enhancements, such as the tapered wear rings, ensure that, when a die is changed, it is perfectly centered quickly and easily, every time. A pneumatic hoist and special tools are available for the **26LM3**, reducing the time it takes to make a die change even further.

**Balanced roll assembly** – Three heavy-duty roll shells, with a narrow track width, are supplied with sturdy, tapered roller bearings to minimize die stress. Independent, dual-direction roller adjustments are simple and effective for maintaining proper roll-to-die clearance. **Higher capacity roll bearings are also available.**

**Seal redesign** – The rear seal is designed to prevent leakage while the labyrinth seal reduces direct pressure on the rear seal. Replaceable brake pads prevent base wear when shear pins break.

**Shear pin redesign** – The **26LM3** shear key has been designed with two diameters to allow easier removal should a partial shear occur. More durable shear pin retainer clips are now standard supply.

**New jackshaft base and V-belt tensioning system (manual or hydraulic adjustment)** – Motor rails have been replaced with a rigid support and adjustment bolts for V-belt tensioning. **Optional hydraulic cylinders are also available for shortening the tensioning process even further.**

**New guard design features with hinged inspection cover** – Guards have been strengthened to prevent cracking due to vibration. Lifting handles have been added to allow for easier guard removal and installation. An inspection cover was added to enable the operator to monitor V-belt wear and tension without removing the guard.

**New bearing adjustment** – Finer adjustment of jackshaft bearings is now possible to ensure precise alignment and drilling and pinning are not required for the installation.

**Variable left/right hand door and drive design**  
The new design includes both Left and right-hand guards, jackshaft bases, doors, and sheave housings. The single door construction accommodates both standard and wide die sizes and reduces manufacturing lead times. An enhanced door latch provides exceptional durability, and bronze bushings on door cam rolls reduce wear.

**Pellet mill internals** – The internals of gear-driven pellet mills can be costly to maintain and even more so to replace. Oil required for the gearbox, pinion shaft, and bull gear are all eliminated when utilizing the belt-driven 26LM3. Additionally, the belt drive absorbs the shock load from production, helping everything last longer.

### **SAFETY IS OUR HIGHEST PRIORITY**

We want every one of our customers to arrive home safely at the end of the day. Features such as double door latches and specialized tools for tightening V-belt tension reduce the risk of encountering moving machine parts.

Removing the louvers from the guards, adding inspection viewports, as well as air vents in the rear of the pellet mill provide a positive seal against dust in the V-belt cavity, reducing the operator's exposure to particulates. In addition, the new dust seal design prevents dust originating from the die chamber from entering the V-belt cavity and it is also less costly than the Teflon seal used in previous applications.

**Roll temp sensing** – ANDRITZ patent pending, Roll Temp Sensing technology was designed to monitor bearing temperature for precise roll setting as well as monitoring greasing and bearing conditions.

**Shear pin system** – The newly designed shear pin system protects the pellet mill against damage due to foreign material entering the die cavity. A V-belt slip sensor is supplied as standard to prevent any damage to the V-belts and drive, and a proximity switch, interlocked with the motor starter, cuts the power to the mill if a shear pin breaks.

**Door interlock** – The pellet mill is assembled with a trap key interlock system to prevent the pellet mill chamber from being accessed while the pellet mill is in motion. A proximity sensor mounted on the rear of the pellet mill near the large sheave senses when the sheave stops rotating and sends a signal, at which point the internal solenoid fires, releasing the trapped key.

### **AVAILABLE TOOLS**

The New Port-a-Power® hydraulic hand pump, weighing only 10lbs [4.5kg], is intended to make the removal of the stiffener and die a quick, one-person operation.

### **ADDITIONAL OPTIONS**

- Optional service tool kit
- Auto grease system for roll and main bearings
- Full circle pellet breaker to control pellet length
- Right-hand or left-hand door and drive
- Roll temperature sensing
- Option to convert to wider die
- Optional hydraulic V-belt tensioning
- Vibration pads
- Conditioner with optional water and/or steam addition



# ANDRITZ dies and consumables



## SPARE AND WEAR PARTS

All the equipment and services provided by ANDRITZ are backed by our superior engineered spare and wear parts, produced in the largest die manufacturing facility in the world; where manufacturing highly specialized products has been perfected. Every component of the die has been produced using the most modern technology. With the entire process taking 40,000 separate machining, processing, and handling operations to create long-lasting, high performance dies, setting the industry standard.

By offering various chrome steel alloys, varying the content of vanadium, chromium, manganese, nickel, and carbon, and matching the size, shape, and pattern of the required die holes for the specific application, ANDRITZ customizes every individual requirement for a wide range of operating environments.

## SERVICE AND REPAIR

Mill maintenance should be conducted on an annual or bi-annual basis, depending on the raw materials being processed. When it is time for service, the entire 26LM3 can be rebuilt in under ten hours, significantly reducing downtime.

ANDRITZ service and repair agreements are tailored to your specific needs to ensure your production is running optimally. Scheduled maintenance and mechanical inspections, as well as routine repair and refurbishment services, are predictable components of your maintenance routine, allowing you to mitigate losses. Our field service specialists' vast experience is unmatched – backed by the full knowledge and technical support that only the equipment manufacturer can provide.

## CONSIGNMENT

With an ANDRITZ consignment agreement, you maintain an inventory of consumable parts on-site and are only invoiced for what you use. Re-orders are filled to replace your stock. This agreement can extend over several years, and pricing freezes can be negotiated for the term.

ANDRITZ only invoices you for the parts you use, and then orders and ships replenishment parts to your site, so you are never lacking a necessary spare or wear part. Consignment agreements prevent unscheduled downtime that could occur due to long manufacturing times and offer consistent pricing over your agreement period.

Maximize your production through upgrades, optimization, and prescriptive services:

- Reduced life cycle costs
- Scheduled shutdowns
- Improved energy efficiency
- ANDRITZ Boot Camp - Training for plant operators







## GLOBAL SUPPLIER – LOCAL PRESENCE

With sales, service, engineering, manufacturing and production sites located all around the world, ANDRITZ Feed and Biofuel is truly a global organization with a local presence. ANDRITZ is vital to ensuring a reliable global supply of aqua feed, animal feed, pet food, and biofuel. With full process lines accounting for half the world's production of aqua feed and biomass alone, we continuously support leading producers in achieving the highest levels in safety, quality, and control from feedstock to final product.

How can we help grow your business?

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