

NEW



NORDIC
215

UNCONDITIONAL RELIABILITY
AND PERFORMANCE



VALMETAL

valmetal.com

MAKE
LIFE BETTER



NORDIC
215

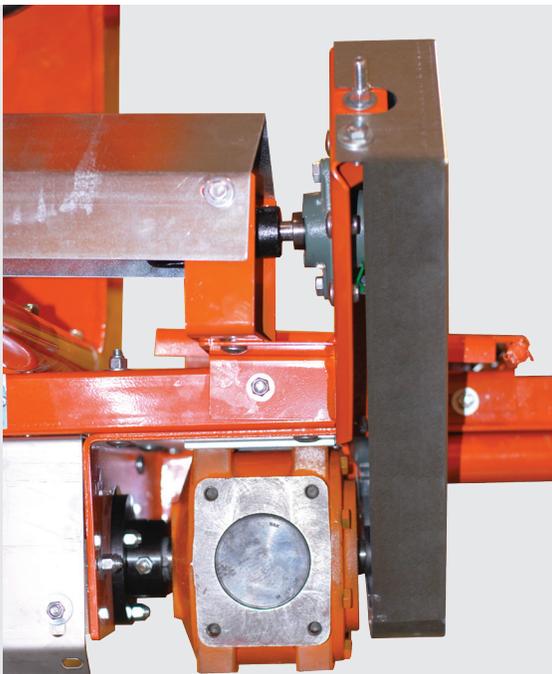
Supported by three widely spaced points which results in a level cut from top to bottom.



UNLOADER (WITH OFFSET SUSPENSION ARMS) - UNLOADING MODE



UNLOADER (WITH STRAIGHT ARMS) - LOADING MODE



HEAVY-DUTY AUGER

On 215 Nordic models, the massive 10" heavy-duty auger is made of 1/4" thick flighting welded on a 4" O.D. tube for rigidity. It is double flighted at the chipper wheel end to allow the machine to run smoothly in frozen and hard-packed silage.

Sharp hardened knives can be installed on auger to chop up the toughest material. Coupled to the gearbox by a 3-bolt flange coupling, the auger assembly is easy to remove.



CHIPPER WHEEL

A big oil-impregnated spherical bronze bearing provides years of trouble free operation. Being self-lubricating, it is maintenance free.

The heavy chipper wheel is made of ductile iron to resist shocks. Six self-sharpening hardened steel blades (56 RC) remove silage that clings to the wall.



THREE PHASE COLLECTOR RING

Model for 3 phase system and 4 conductor power cords. Main motor and ring drive motor start and stop simultaneously.



SINGLE PHASE COLLECTOR RING

Single phase models with 2 slip rings and 3 conductors power cords, compatible with line shaft drive system and with independent ring drive motor, both motors start and stop simultaneously. Or with 4 conductors power cord and 3 slip rings for independent ring drive system, allows the operator to control the ring drive motor independently from the main motor.



THREE PHASE COLLECTOR RING WITH 5 CONDUCTOR POWER CORDS

It allows the operator to control independently the ring drive motor.

SCA/US approved for up to 16 H.P.

COLLECTOR RING

Electrical power is transferred from stationary to rotating part of the machine by extra-large brushes and thick copper alloy rings, assuring a maximum contact for an uninterrupted transmission power.

Valmetal offers 3 different models of collector ring to meet the specific needs of today's farms.



All models are CSA/US certified.



NEW BLOWER

Valmetal designed the Nordic 215 blower with an increased blowing capacity and efficiency with less energy. To facilitate its maintenance, it features adjustable pillow block bearings for allowing easy adjustments for the tip clearance, large stainless steel swinging paddles, 26" blower housing with a 3/16

stainless steel blower band for longer service.

Stainless steel adjusting and bearing bolts to resist corrosion.

Pillow block bearings are outside the housing, thus less exposed to contamination.



PRESSURE WHEEL

Cantilevered pressure wheel holds the chipper wheel tight against the silo wall.



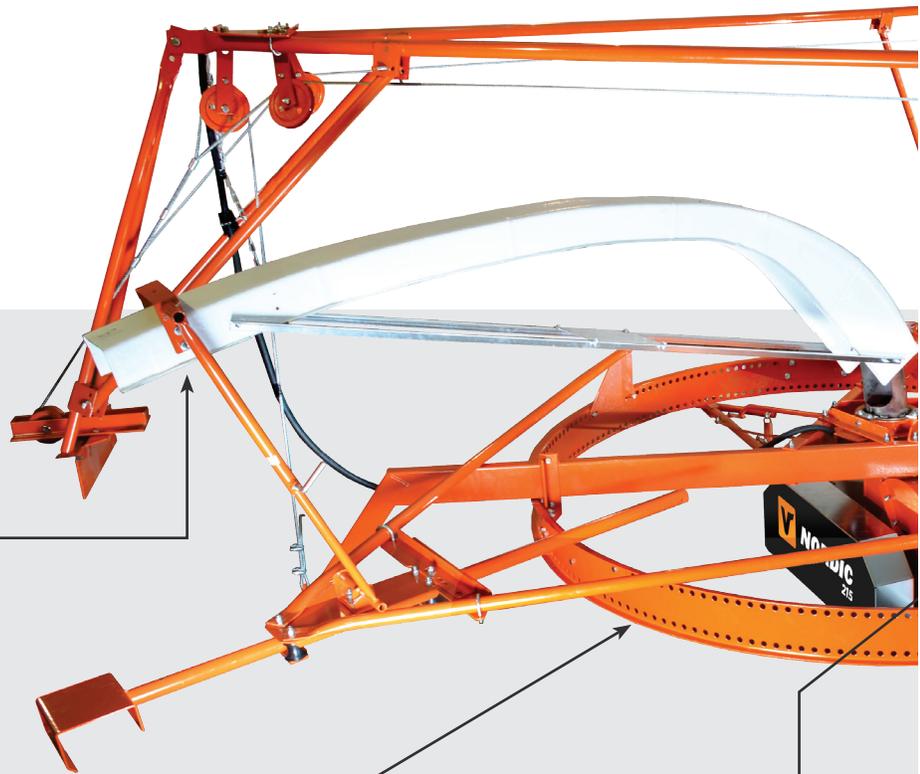
NORDIC 215

ACCORDING TO THE NATIONAL SILO ASSOCIATION, UNIFORM DISTRIBUTION PROVIDES MAJOR BENEFITS, SUCH AS: :

- Uniform pressure on silo walls
- More compact silage and better fermentation
- Increased silo capacity
- Better unloader performance



It takes only minutes for one man to transform the Valmetal Nordic 215 from silo unloader to silage distributor.



FIBERGLASS DISCHARGE CHUTE

The deep-sided chute features a smooth and slippery finish inside. Silage flows smoothly through the door.

A 48" replaceable stainless steel liner protects the high wear area.

DRIVE RING

The drive ring's large diameter along with wall to wall suspension arms guarantee the perfect equilibrium of the machine without counter weight that has to be adjusted every now and then to match silage conditions.

Made of 3/16" thick steel, the 3 ring segments feature a big 9' diameter on the 12' to 20' models. They are reversible giving them twice the durability.

Double 48" long splice plates provide rigidity to the whole assemble. On the 24" models, ring segments are beefed-up and make a large 11' diameter ring for a stable and well-balanced machine.

ULTRA HIGH CAPACITY BLOWER

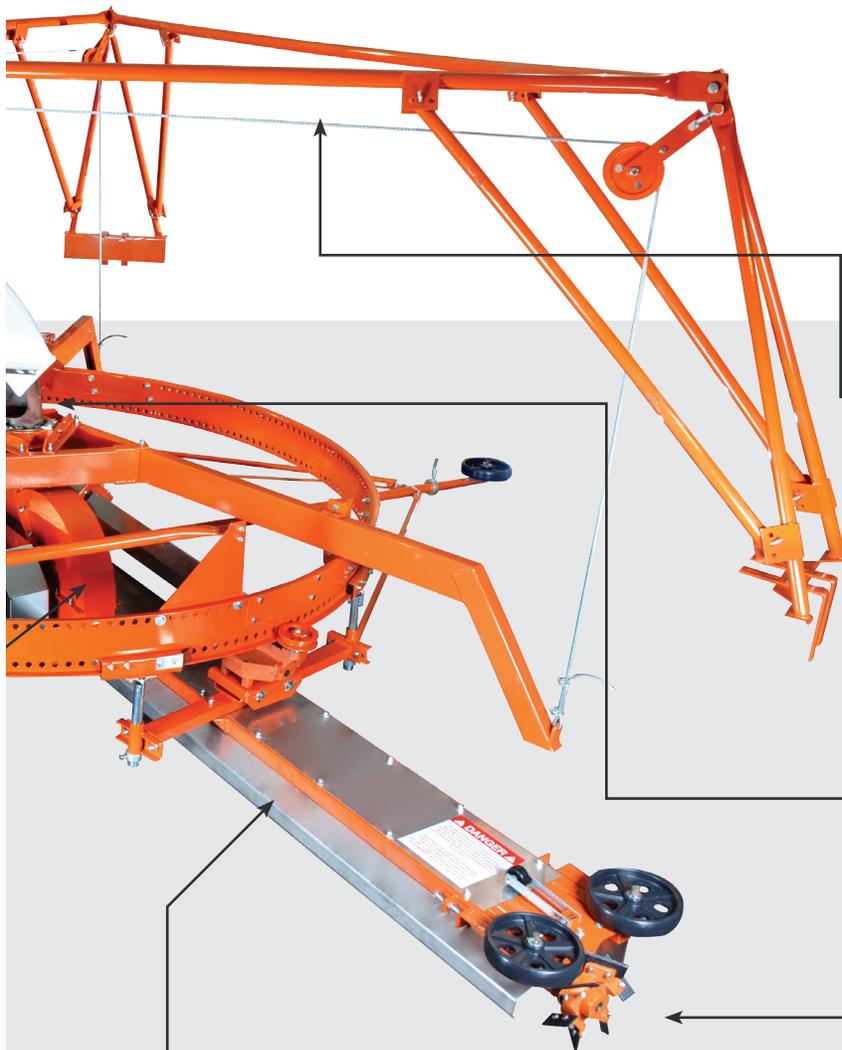
The 26" high capacity blower with 3 stainless steel paddles rotating at 1,225 R.P.M. for 8,330 feet per minute tip speed, assures that silage will be thrown all the way through the door.

OFFSET SUSPENSION ARMS

If you prefer a lateral style silage spreader, the Valmetal Nordic 215 can be ordered with offset suspension arms, therefore the unloader can be raised into the roof, completely out of the way allowing you to fill your silo to the very top without interference from the machine.

TORQUE ARM

No more worry about winch location, the Valmetal Nordic 215 can be equipped with a sturdy torque arm in replacement of the anchor chain to keep the machine from twisting. A telescoping chute support maintains proper alignment of the multi-radius discharge chute for accurate silage stream.



HEXAPOD SUSPENSION

The 3/8" main cable and the two auxiliary 5/16" galvanized aircraft type cables support the unloader from 3 widely spaced points which results in a level cut from top to bottom.

STAINLESS STEEL CHUTE BASE

Stainless steel chute base resists wear and corrosion. Its unique inclined design automatically sets the silage flow for maximum throwing performance.

STAINLESS STEEL AUGER SHROUD

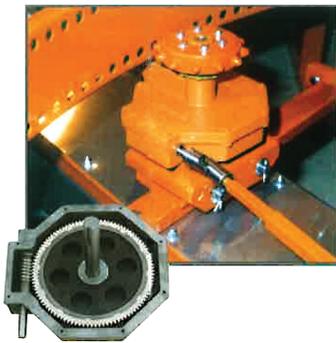
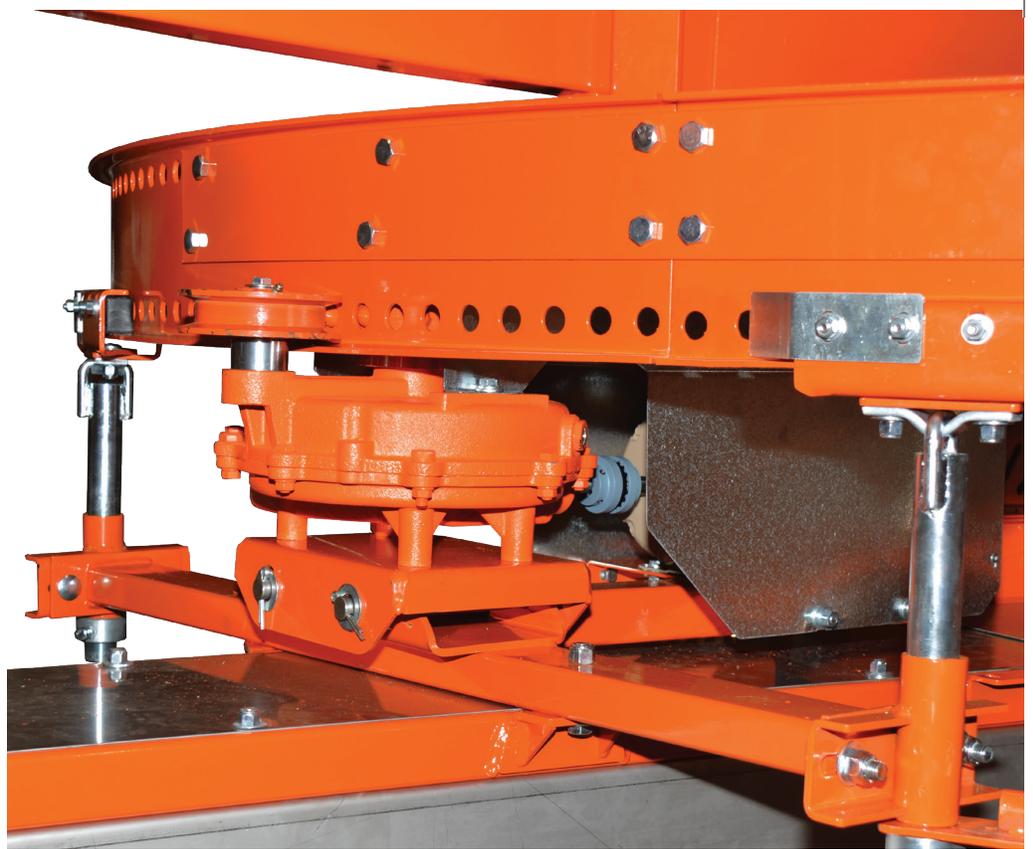
Auger shroud cover and sides are made of stainless steel to resist silage acid and corrosion. The rugged structural steel tube frame features a welded construction for extra rigidity.

BIG TEN INCH AUGER

Loaded with sharp cutting knives, the big 10" auger delivers a steady stream of silage to the impeller for high capacity output, even in frozen or hard-packed silage.

DRIVE SYSTEM

THE ROTARY PART OF THE UNLOADER IS SUPPORTED BY SELF LUBRICATING POLYMER BLOCKS, REQUIRING NO MAINTENANCE.



(GUARD REMOVED)

RING DRIVE TRANSMISSION

A positive ring and gear drive system provides steady, even cutting under all conditions. Sprocket is driven by a 100:1 worm gear reduction on a shaft from the auger gear box. The ring drive torque limiter maintains accurate torque release and protects drive components.



(GUARD REMOVED)

INDEPENDENT POWER RING DRIVE

The independent power ring drive models require less power during distribution. A reliable industrial coupling between motor and the 500:1 gear box assures positive drive. The Ratchet-type torque limiter provides accurate torque release under adverse conditions while protecting the drive system.

VALMETAL CONTROL PANELS



CONTROL PANELS DESIGNED FOR 3 PHASES - 5 WIRES SYSTEM

The main control panel includes a magnetic starter panel to feed the main motor and the auxiliary panel, reversing contactors to control the winch motor, either manually or in automatic mode and the overload relays to protect the motors.

The auxiliary panel, on board the unloader, includes the magnetic starters and overload relays for the ring drive motor and the motorized distributor motor, a selector switch (unloader / distributor) with interlock to prevent the starting of the main motor when filling the silo.

The weather and dust proof fiber enclosure does not rust. It protects the ammeter and all the other electrical components from often harsh and humid environment of the feed room.



CONTROL PANEL

For the unloader with independent ring drive system, an ON/OFF switch allows the operator to stop or start the ring drive motor independently from the main motor, this allows time to empty the auger and blower completely in order to avoid freeze-ups for easy next meal start-up.



AUTOMATIC LOWERING CONTROL

Time-saver, the Valmetal Automatic Lowering Control in conjunction with a motorized winch, lowers the unloader automatically after each complete revolution to maintain a steady full-flow feeding, therefore freeing you from standing by the winch.

The let-down time is easily adjusted to match the unloader's motor capacity and silage condition, it permits precise adjustment for unloading at optimum efficiency and keeps the silage surface level. Of course, you can also raise the unloader anytime with the push of a button.



DUAL CONTROL PANEL

The Valmetal Dual Control Panel combines all the characteristics and components of a regular control panel, plus reversing contactors for worm gear hoist motor and a 4 button remote control allowing the operator to control the unloader and the winch.



INTELLIGENT CONTROL PANEL

A PLC (Programmable Logic Controller) manages all the operations of the unloader and conveyor.

Very user friendly, all the times, set points and delays are easily adjustable to match silage condition.

Either started manually or by an existing controller or electronic scale indicator with set point capabilities, (dry contact) it takes charge of all the operations of the unloader and conveyor. Motors start and stop in sequence; in unloading mode, current detectors monitor the amperage demand, stop temporarily the ring drive motor if the demand exceeds the set point or, through the winch motor, lower the unloader to match the F.L.A. of the main motor. Proximity switch(es) monitor the conveyor idler roller and will stop the whole system if a problem occurs.

In loading mode, it starts in sequence the distributor motor (if any) and the ring drive motor. The controller will send a signal and stop the system if no current is detected (motor failure).



REMOTE CONTROL

Designed for safety, the convenient remote control station allows the operator to lock out other control locations to prevent accidental start-up of the unloader while servicing.

OPTIONS

HEAVY-DUTY WINCH



The Valmetal winch features a heavy cast iron gear reducer. Its 50 to 1 gear ratio makes it easy to raise or lower the unloader. A reliable brake mechanism prevents accidental unwinding of the suspension cable.



ELECTRIC TWO-SPEED HOIST

Flip a switch to raise or lower your silo unloader. Same heavy-duty hoist with 1 HP reversing motor and extra reduction for maximum convenience in unloader control.

Because of the 2 step motor pulley the speed can be changed in seconds without tools. It lowers at approximately 1' per minute for better control, and raises the unloader to the top of the silo at approximately 2' per minute.



GRAVITY TYPE DISTRIBUTOR

In small diameter silos (12' to 16'), the gravity type distributor is normally sufficient to achieve a uniform distribution all the way to the top. Here is how it works: from the center fill pipe, the stream of silage flows down on the slanted board which pivots slowly with the unloader at the top of the silo, directing the silage towards the silo wall to achieve a slightly inverted cone pattern as filling progresses.



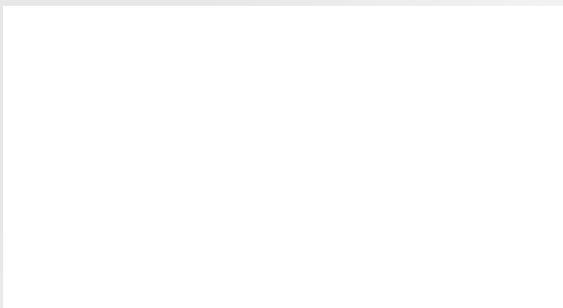
POWERED DISTRIBUTOR

Recommended for large diameter silos, a motorized motor is added to the distributor board. The 4 paddle motor throws silage against silo wall to get uniform distribution of silage in the shape of a slightly inverted cone.

THE NEW SELF-SUPPORTING DISTRIBUTOR MAKES IT EASY AND FAST, FOR ONE MAN, TO CHANGE FROM THE UNLOADER MODE TO THE DISTRIBUTOR MODE.

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without prior notice. Illustrations may include optional equipment and accessories, and may not include all standard equipment.

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