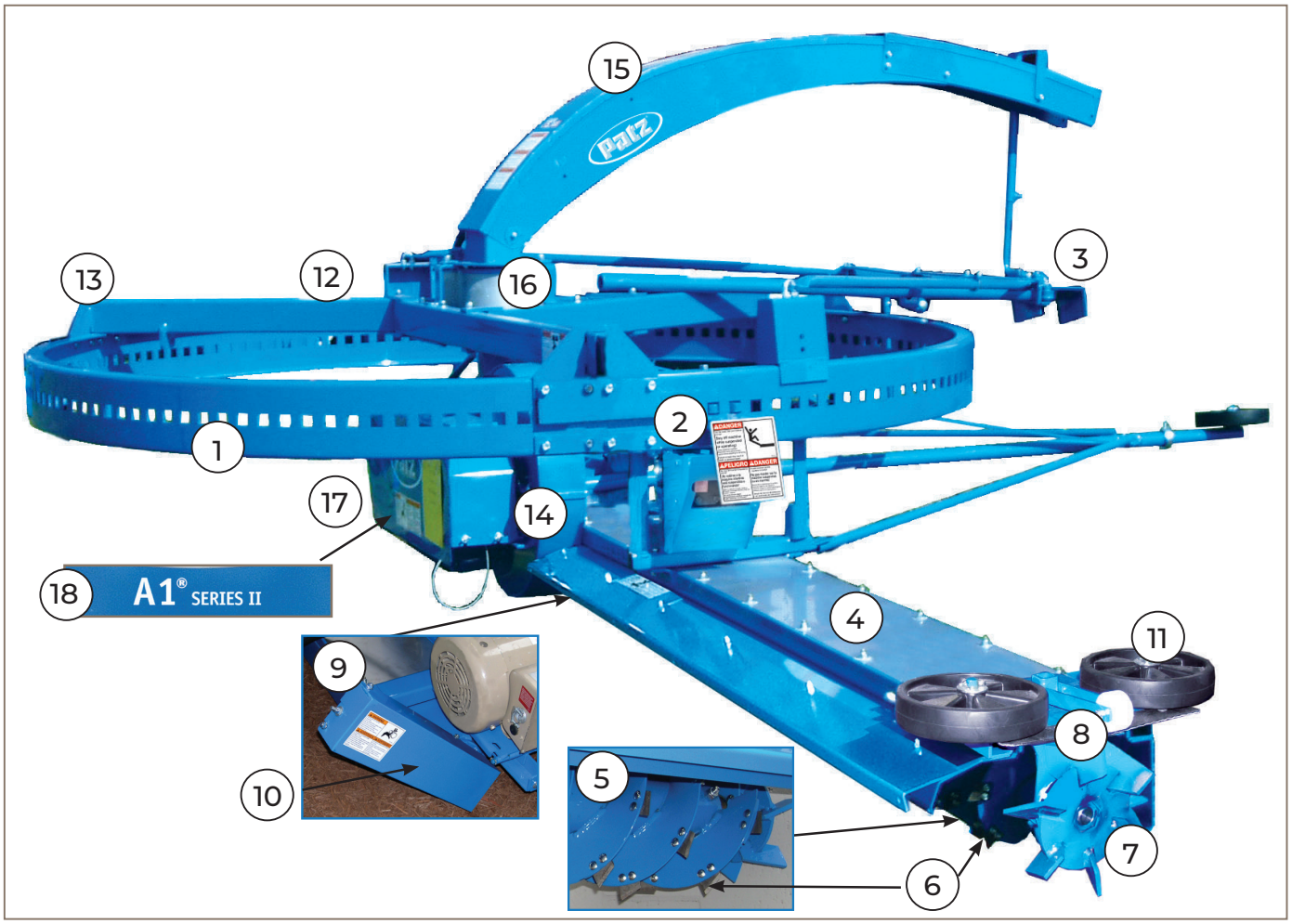
A1® SERIES II SINGLE AUGER RING DRIVE
SILO UNLOADER

FEATURES:

- Fast feed delivery from silo to chute saving you time & money in labor costs
- Superior chipper performance for excellent feed removal
- Simple design makes for easy installation and low-maintenance operation
- Durable construction using heavy-duty drive ring
- Easily removes hard packed and frozen silage
- Adapts to silos with diameters of 12' - 24' (3.6 - 7.3m)

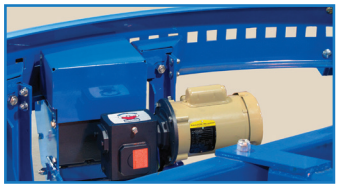
Single Auger Ring Drive Silo Unloader

Performance Features



1 **Drive ring.** This heavy, reversible ring is made from 7-gauge (4.5mm) thick steel. The 9' (2.74m) diameter ring (3 sections) is flanged to the inside for greater strength and reversible for greater life. Provides maximum stability for proper machine balance in changing silage conditions.

2 **Ring drive gearbox.** Power is transmitted to the drive sprocket from a rugged ring drive gearbox that is either shaft driven (one motor drive) or motor driven and totally enclosed, (two motor drive). The Patz® ring drive torque limiter features a farm proven radial-pin design that provides accurate torque release under adverse conditions of hard-packed and frozen silage.



3 **Torque arm and chute pole assembly.** Heavy-duty torque arm and chute pole maintain proper position of unloader. Telescoping chute pole and a continuously self-aligning blower cap mean less door changes.

4 **Stainless steel auger cover** and powder coated High-Strength, Corrosion-Resistant Steel sides. This design resists corrosive acids commonly found in silages and offers additional durability and rigidity.

· *EASILY REMOVES HARD PACKED & FROZEN SILAGE* ·

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Performance Features

(5) **High-performance auger.** This 10" (254mm) heavy-duty, high-capacity auger is made with 1/4" (6.4 mm) thick flighting. Double flighting at the chipper wheel and double kickers at the blower end of the auger provide smooth operation while removing even the hardest packed and frozen materials.

(6) **Special hardened steel knives.** Aggressively cuts through frozen, hard-packed silage.

(7) **Chipper wheel.** Six self-sharpening steel knives are securely welded to chipper wheel to clean silo wall.

(8) **Chipper wheel cover.** Reduces feed buildup on top of wall wheels.

(9) **Auger drive gearbox.** Beveled gears deliver the power needed for hard packed or frozen silage. Heavy flanged coupling separates the auger from the gearbox. Synthetic oil in gearbox performs in the coldest environment.

(10) **Roller chain-driven single-motor drive.** Gives a more positive drive.

(11) **Two 10" (254 mm) diameter wall wheels**. Adjustable, heavy-duty polyethylene wall wheels allow for accurate positioning of chipper wheel.

(12) **3-point suspension system.** This system keeps the unloader level, eliminating the need for counterweights. Suspension arms available to fit tripods or hexapods. Optional high clearance suspension arms are available.

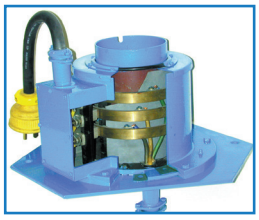
(13) **3-cable suspension.** High-tensile strength aircraft 3/8" diameter cable provides unloader stability.

(14) **Heavy-duty blower with impeller.** 26" (660 mm) high capacity blower features ductile iron bearings and 3 cupped, adjustable paddles to deliver high volumes of silage. Paddles feature stainless steel pins and can be mounted fixed or swinging to ease start up. Air intakes in the blower reduce air resistance for more throwing power. Blower band is made of 1/4" (6.4 mm) abrasion-resistant steel for longevity. Stainless steel cut-off blade is standard.

(15) **Blower Cap.** Thick steel sides and top for longevity. Electric cord held securely in place along blower cap.

(16) **Collector ring.** Unmatched in design for reliability and longevity, the electrical joint is the industry's best.

- **Easy serviceability**.
- **7/8"** (22 mm) extra wide copper-alloy rings & brushes. Rings vertically stacked to prevent arcing.
- **One-piece housing** sealed against dust & moisture.
- **Dielectrically tested** to assure all circuitry functions properly.
- **Cord features** copper construction throughout to carry maximum electrical loads.
- **CSA approved cord** resists oil, silage acids, moisture and abrasion.



(17) **Motors**. Choice of 1/3, 1/2, or 3/4 HP single and three phase motors (2-motor drive gearboxes).

(18) **A1® SERIES II Quick ID Logo.** Easy unit identification.

(19) **Control panel & remote pushbutton station.** Required equipment for your safety and convenience. Single phase, single phase rotation control, and three phase control panels available. Allows the operator to control the unloader while servicing and prevents unintentional 'start-up' by others.

Control panel with ammeter

(19)

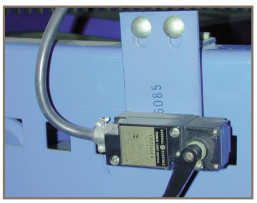
Remote pushbutton station

Single Auger Ring Drive Silo Unloader

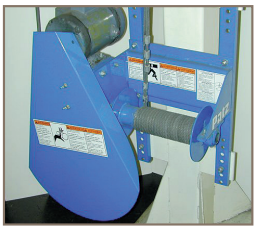
Options

AUTOMATIC LOWERING

End winch watching and save time. The automatic lowering option maintains a steady, high-volume silage flow. An optional electric motor-driven winch automatically lowers the Patz ring-drive silo unloader after it makes each complete revolution.



The letdown can be adjusted to match the silage condition and desired feed flow rate. To regulate the volume of feed, simply turn the volume control dial toward “Min” or “Max”. An ammeter allows you to monitor the load on the silo unloader motor while setting the volume control adjustment.



The automatic lowering control keeps the silage surface level for reliable operation and constant full-flow feeding. This winch control also allows you to easily raise the silo unloader at any time with the push of a button.

If you already own a Patz ring-drive unloader, you can add this automatic lowering option to your present unloader.

HEXAPOD SUPPORT SYSTEM

Patz offers the hexapod with the highest lift in the industry! High clearance suspension arms (optional) provide extra feed storage and clearance for filling 16’ - 24’ units. The hexapod’s 3-cable suspension includes the strongest main cable in the industry at 3/8” diameter!

(Hexapod shown in simulated installation display)

K.I.P. PACKAGE

(Keep it Patz)

Convert your current Patz ring drive silo unloader to an A1® Series II Single Auger Silo Unloader.

The A1® Series II Package includes:
High-performance Auger
Chipper Wheel
Auger mounting framework with motor
Mount
Auger Drive Gearbox
Wall Wheels
Special Hardened Knives
Heavy-duty Blower with 3 paddle impeller
Belt shield, v-belts, pulleys

DISTRIBUTOR SUPPORT BOARD

Top quality silage requires a uniform distribution for better compaction of materials during the silo filling process. To accomplish this, Patz offers gravity-type and power-assisted distributors.

SAFETY! It's no accident

CAUTION: Never operate Patz equipment without all shields and guards in place. *Safety Is No Accident.* Before operating any piece of equipment, be sure to read and understand the operator’s manual. This manual should be kept with the machine at all times. Additionally, make sure all safety shields and devices are functioning properly and are securely in place.

For some photos in this brochure, guards were removed for photographic purposes only to allow viewing of the equipment features. Before operating equipment, all guards must be in place. Because Patz continually improves and updates products, Patz reserves the right to change the construction of machines or attachments or any part thereof without incurring any obligation to make like changes on Patz machines, or attachments previously delivered. Specifications and prices subject to change without notice.

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