

# IntelliChain<sup>®</sup> MAX



**MANURESOLUTIONS**  
www.patzcorp.com

**THE NEW STANDARD IN COW  
COMFORT & HERD HEALTH!**  
The Long Pull - Long Haul Scraper

**INVESTMENT FLEXIBILITY**  
Ask Dealer for Financing Details

# IntelliChain® MAX Alley Scraper

## LONG PULL INNOVATION BUILT FOR THE LONG HAUL

### THE NEW STANDARD IN COW COMFORT AND DAIRY HERD HEALTH!

Patz original design - the **IntelliChain® MAX** is the most optimized and efficient alley scraper SYSTEM available with a total circuit up to **3,600 ft!**

- ▶ Functional, narrow, space-saving, and serviceable *tower design*:
  - ▶ Direct-Drive Provides Industry's *Longest Chain Take-Up Capacity*
    - Minimal chain wear with no idler wheels and fewer radial bends.
    - Longer chain service intervals mean lower maintenance costs.
  - ▶ Patented *Fully Automatic Hydraulic Tension*
    - Modulates drive torque and circuit tension to minimize chain wear.
    - Optional, easy-to-use, Manual Hydraulic Tension available.
  - ▶ *Energy-efficient*, planetary gearbox drive packages powered by 2HP @ ≤2500FT or 3HP motor @ ≤3600FT.
  - ▶ *Compact tension package* options with frame-mount or remote-wall install plug-&-play electric and quick-connect hydraulic components.
  - ▶ *Flexible layouts* with 16 different configuration options in a single, compact footprint.
    - Corner Wheel Options for Sand, Organic, Compost Bedding
    - Interchangeable Chain and Cable/Rope Corner Wheels for hybrid tow packages.
    - Sled Options for On-Floor or Recessed Chain; Cable/Rope and Flat-bar linkage; and Slider Sleds for unequal alley lengths.
  - ▶ *Pass-Through Service Panels* for Easy Maintenance Access.

**NEW! Sentinel Control Panel** - with advanced learning system continuously adjusting to weather, bedding, and manure changes by recalculating the amount of energy required to clean on every cycle.



## NEW! SENTINEL CONTROL PANEL

- Patz innovative "Learning System."
- Fiberglass NEMA enclosure with easy-to-use, quick-connect electric cables with pre-wired junction box.
- Glove-friendly, easy-to-use, 7" (178 mm) color HMI touch screen display.
- Large, easy-to-recognize universal language icon navigation.
- 3 operational modes: MANual, CONTinuous, and AUTOMatic (schedule up to 12 cycles per day).
- Adjustable speed control.
- "Auxiliary Relay Function" allows the operator to automatically start another machine, lights, or horns by supplying a start signal.

- Patz innovative and patented Auto-Tensioning option
- Superior sensitivity - programmable BUMP feature.
- Advanced "Patz Remote Notification" emails and/or text messages operator(s) with scraper status and service updates. Transmits updates following corrective service.
- Faults are stored in memory up to 4 weeks—even if power is cycled. Allowing service technicians to quickly troubleshoot.
- Integrated LOCK-OUT/TAG-OUT power disconnect lever.
- HARD PULL one-button feature for freshly bedded alleys and/or excessive manure.
- QUICK CLEAN feature cleans alley in between scheduled cleanings.
- PARK feature positions scrapers out of way when needed (designate alternate scraper location other than HOME).
- Black plastic manual box included to protect Operator's and Parts Manuals from the environment.

# IntelliChain® MAX Alley Scraper DRIVE UNIT

## VERTICAL DRIVE PACKAGE

Twin, telescoping hydraulic cylinders maintain drive system position. Drive frame travels vertically on robust cam followers in stabilizer track for smooth operation as system reverses.



## HEAVY-DUTY PLANETARY

Gearbox is more energy-efficient, uses less horsepower than conventional gearboxes, and provides quiet operation.



## DRIVEN PULLEY

Takes power from the motor to planetary pocket sprocket which in turn drives the chain.



## MOTOR PULLEY

Single belt and pulley design for power transfer from motor to planetary gearbox. Large motor pulley designed for greater belt life.



## THREE PHASE 2 OR 3 HORSEPOWER ELECTRIC MOTOR

Efficiently powers the drive unit. Will operate on single or three-phase input power.

## PATENTED AUTOMATIC TENSIONER

Automatic tensioner system adjusts tension during machine operation avoiding overtensioning by other systems.



## MANUAL HYDRAULIC TENSIONER

Tensioning system with hydraulic hand pump and cylinder to manually tension chain.



## GUARD DOORS

Provide safety for operators and protection for drive unit components. Opening a guard door will activate a safety interlock that automatically shuts the unit down. Doors front and back for easy service access.

## PATZ CHAIN

is made of high-quality 1/2" (13 mm) hardened steel to withstand the stress and friction of contact between links and concrete alleys. To ensure you always receive genuine Patz chain, every sixth link is imprinted with 'PTZ.' Patz chain can be ordered in a variety of lengths, including custom lengths in one-foot increments for splice-free installation.



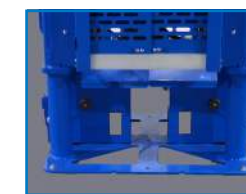
## POCKET SPROCKET

Cradles the chain in hardened plate steel, effectively driving it in forward or reverse. Connected to the reducer with a splined shaft, the pocket sprocket is easy to replace (sprockets available in five different colored stages for easy identification).

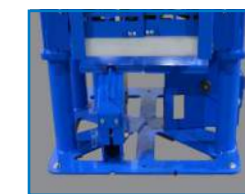
## DRIVE UNIT CORNER WHEELS

Can be placed in straight, corner, parallel, or offset mounting formations for layout flexibility and space savings (see Drive Unit Configurations below). Steel housing encloses drive unit corner wheels for safety and protection. Corner wheels feature hardened axle and nylon bushings for longer life. Optional ball bearing foot wheels for sand conditions.

## DRIVE UNIT CONFIGURATIONS



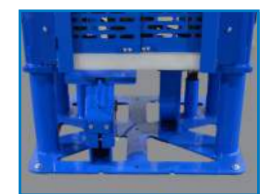
"I" (Straight) Position  
Most basic setup.



"L" (Corner) Position  
This setup positions the drive unit in the alley.



"U" (Parallel) Position  
Provides space savings and locates the drive unit in a corner out of basic travel routes.



"Z" (Offset) Position  
Provides space savings by narrowing the space required for the drive. Can be used instead of "straight" position.

# IntelliChain® MAX Alley Scraper

## CUSTOMIZATION OPTIONS



### LOW-PROFILE CORNER WHEEL

12" (305 mm) nominal diameter welded plate steel corner wheels feature a low-profile design. 2" (51 mm) diameter hardened axle and nylon sleeve bearings provide low maintenance and long life.

*\*Corner Wheels Available in both Chain and Cable/Rope Options*



### ROLLER BEARING CORNER WHEELS

Available in both single and dual chamber lubrication design, robust roller bearings in lubricated seal pack are ideal for sand bedding applications.



### FOLDING V SCRAPER

Low-profile scraper wings and folding design allow easy passage for animals, tractors, and skid-steer loaders when bedding freestalls.

Replaceable wings available for easy servicing.

Cleans alleys with widths from 64 to 174 inches (1.6-4.4 m).



### FOLDING ANGLED TIP-UP SCRAPER

Wings pivot to follow wall tightly for better cleaning. During the reverse movement, the blades tip up and the wings pivot inward. Heavy enough to clean better; extra steel in wear points. Cleans alleys with widths from 84 to 192 inches (2.1-4.9 m). Replacement blades and wings available for easy servicing. Scraper removes easily – center in slot and lift off. Scraper can be replaced without removing sled.



### VERSA FOLDING V SCRAPER

Low-profile scraper wings and folding design allow easy passage for animals, tractors, and skid-steer loaders when bedding freestalls.

Cleans alleys with widths from 64 to 174 inches (1.6-4.4 m).

Optional choice of three economical, replaceable, bolt-on blade edges:

- AR400 STEEL for use with sand bedding.
- RUBBER for use with rubber mat floors.
- URETHANE for use with rubber mat floors or concrete (where floor wear is a concern) and sand bedding. This is a great alternative material for longer wear.

Universal scraper wings are replaceable.

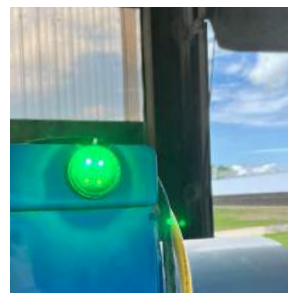
### LED INDICATOR LIGHT PACKAGE

Designed to be viewed from across the facility, high intensity LEDs signal system's current operating mode and machine status.



### UNLIT (OFF)

Machine is Powered Off and not operating. Locked out/tagged-out for service.



### GREEN

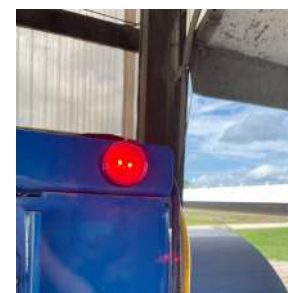
**Solid:** Machine is operating normally.

**Flashing:** Machine is operating, requires maintenance.



### YELLOW

**Solid:** Machine has been manually turned off by operator (Non-Fault).



### RED

**Flashing:** Machine is stopped due to a system fault. Verify fault, correct operation, and re-start.



### SLEDS

Sleds available for on-floor and recessed chain installations. Slider sleds allow chain to pass through for installations with unequal alley lengths.

56½" (1,435 mm) sleds provide scraper stability. 36½" (927 mm) sleds are available where a shorter sled is required.

### FOR RUBBER FLOORING

Hard nylon rollers located on sled ends and scraper arms position the scraper above the rubber covered alleys, ensuring only rubber blades touch rubber flooring.



**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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