



Chain Scraper Systems

Dura-Chain

Powerful drive systems to suit any barn configuration



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Our high-capacity scraper systems simplify barn planning. The Dura-Chain series includes powerful drive units that can run longer distances, meaning fewer systems and requiring less space. Choose from 4 models based on alley lengths, number of scrapers, and manure types.

Benefits

- ✓ Industrial duty construction keeps maintenance time to a minimum.
- ✓ Compact vertical units require very little floor space.
- ✓ Drive units configure to suit any layout.
- ✓ Adaptable to unequal alley lengths.
- ✓ 95% efficiency minimizes power consumption.
- ✓ Fully controlled by the Scraper Boss PRO, adjusting strokes and detections is easy, while keeping your hands clean.

Features

Drive sprocket mounted on heavy-duty gearboxes

Belt-driven

Slide-out wheel modules. Pivoting wheels on drive units (Flex, 2XL, Xtreme)

Pocket-type drive sprocket is gentle on chain

1/2" (13 mm) hardened chain for most applications

Tensioning system integrated into the drive unit

**Innovative products
for safe, clean
environments that
protect animals and
give you peace of
mind.**

Chain hardened to resist wear

All Dura-Chain units are equipped with a 1/2" (13 mm) hardened chain for most applications. The XL model can also use an HD deep-hardened chain (option) for maximum sand resistance.

All chains can withstand the steel-on-steel or steel-on-concrete wear that scraper chains are exposed to. They can run in a 2" x 2" (5 cm x 5 cm) floor groove, or on top of the floor without creating cow disturbance.



Tensioning Systems

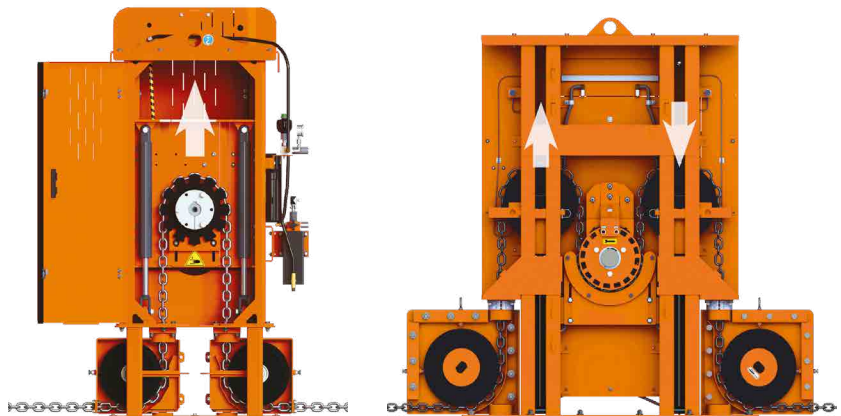
To ensure the smooth operation of your Dura-Chain system, each drive unit is equipped with a tensioner. Different models are available to suit your operations.

Manual tensioners

Provide simple and effective adjustment of chain stretch by observation.

Automatic tensioners

Maintain proper tension in all conditions without manual intervention until chain shortening is required.



Model	Manual	Automatic
Dura-Chain XL	<ul style="list-style-type: none"> Durable, easy-to-use screw-type tensioner Hydraulic tensioner with pressure gauge for quick, effortless adjustment (option) 	<ul style="list-style-type: none"> Pneumatic auto-tensioner that absorbs shocks and restores tension after overload
Dura-Chain Flex	<ul style="list-style-type: none"> Manual or electric gear-drive tensioner with indicator 	<ul style="list-style-type: none"> Electric auto-tensioner that maintains baseline settings under all conditions
Dura-Chain 2XL	<ul style="list-style-type: none"> Hydraulic tensioner with pressure gauge for quick and effortless adjustment 	<ul style="list-style-type: none"> Hydraulic auto-tensioner that maintains baseline settings under all conditions and restores tension in the event of an overload
Dura-Chain Xtreme	N/A	<ul style="list-style-type: none"> Hydraulic auto-tensioner that maintains baseline settings under all conditions and restores tension in the event of an overload

Manual hydraulic tensioner on Dura-Chain XL

Requires only a few pumps of the lever to maintain proper tension.





Dura-Chain XL

Strength made simple for small farms

The smallest and most economic model in our Dura-Chain series, the XL model offers a choice of manual or automatic tensioners to maintain optimal chain tension in systems up to 800 ft (244 m).

This compact vertical unit takes up very little floor space and features configurable wheels for easy, flexible positioning—making it an ideal solution for small farms or short alleys. Choose the economical 12" (30 cm) corner wheel with bushings or the heavy-duty version with bearings.

- ✓ Compact
- ✓ Economic
- ✓ Proven design



Specifications

Speed	Motor	Number of scrapers	Chain length	Tensioner
8 ft/min (2.4 m/min)	1 HP	2	800 ft (244 m)	Manual screw tensioner Pneumatic auto-tension (option) Manual hydraulic tensioner (option)
		4	600 ft (183 m)	

- Under optimal conditions -



Optional electric auto-tensioner

Dura-Chain Flex

Big cleaning power in a small package

With its flexible design, the Dura-Chain Flex adapts to multiple configurations and fits smoothly into any existing system. Its rigid stationary structure sits on 12" (30 cm) base wheels that swivel to save space and suit any layout. Choose the economic bushing wheels or the HD sealed-bearing wheels for demanding applications.

Equipped with a pocket-type drive sprocket, the Dura-Chain Flex gearbox ensures smooth operation and reduces wear.

- ✓ Flexible layouts
- ✓ High capacity planetary gearbox
- ✓ Simple design
- ✓ Tensioner outside the manure zone



Easy tension adjustment

The tension indicator shows you the proper adjustment, whether using manual or automatic tensioning.



Easy service

Wheel modules are easy to remove for inspection or service.



Drive system stays clean

For maximum durability, the drive unit is strategically placed outside the manure area, protecting critical components and ensuring long-term performance.

Specifications

Speed	Motor	Number of scrapers	Chain length	Tensioner
10 ft/min (3 m/min)	1 HP	4	1,300 ft (396 m)	Manual gear-drive tensioner Electric auto-tension (option)

- Under optimal conditions -



Dura-Chain 2XL

Big-barn capacity, compact in size

The Dura-Chain 2XL is a simple, powerful and reliable drive system, designed for long alleys.

Hydraulic cylinders raise the tensioner frame to maintain proper chain tension and compensate for chain stretch. A manual hydraulic pump requires just a few lever strokes to achieve optimal tension, while an optional electric unit automatically maintains consistent tension. The tensioner frame slides on UHMW polymer guides, ensuring smooth and efficient operation. Choose 12" (30 cm) or 15" (38 cm) sealed-bearing base wheels & corner wheels.

- ✓ High capacity planetary gearbox
- ✓ Swivel base wheels
- ✓ Sturdy structure



Specifications

Speed	Motor	Number of scrapers	Chain length	Tensioner
15 ft/min (4.6 m/min)	2 HP	4	1,800 ft (549 m)	Manual hydraulic tensioner Hydraulic auto-tension kit (option)

- Under optimal conditions -



Dura-Chain Xtreme

Handles the biggest barns and the toughest conditions

The Dura-Chain Xtreme is the model of choice for large farms with long and numerous alleys. This unit sits on a rigid frame, is equipped with 15" (38 cm) self-aligning wheels and a heavy-duty planetary drive.

Its belt drive, powered by a standard 3 HP motor, ensures smooth operation and is suitable for the most demanding environments with deep manure and sand bedding.

The automatic hydraulic tensioner features twin take-up wheels, providing exceptional capacity for chain elongation while maintaining the perfect setting to maximize chain life.

- ✓ Industrial construction
- ✓ Massive load capacity
- ✓ Automated chain return tensioning system
- ✓ Continuous pressure reading on tensioner
- ✓ Delivered completely assembled and factory pre-wired for quick installation



Specifications

Speed	Motor	Number of scrapers	Chain length	Tensioner
15 ft/min (4.6 m/min)	3 HP	4	3,500 ft (1,067 m)	Hydraulic auto-tension kit
		8	2,500 ft (762 m)	

- Under optimal conditions -

Accessories

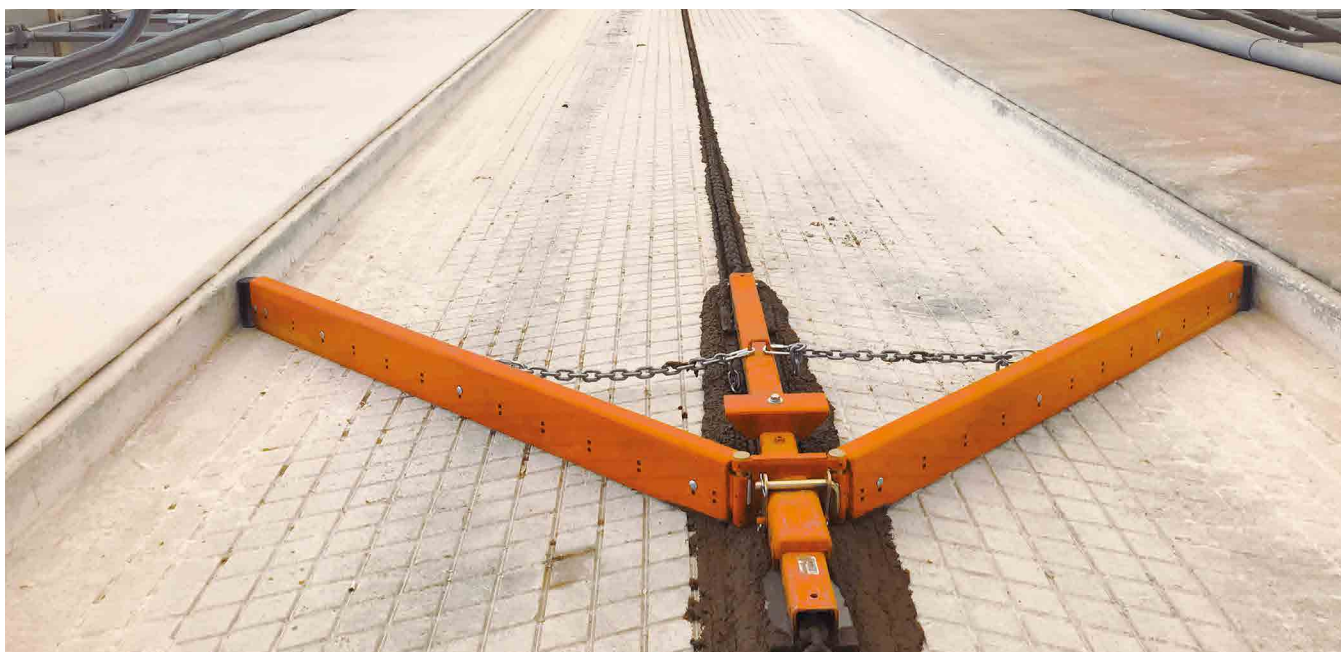
Scraper blades

V-Blades

V-blades are low maintenance and easily adapt to variable width alleys. The replaceable wear-board can be reused four times for maximum economy.

Choose from:

- Steel wear board for general use
- Abrasion-resistant steel for sand
- Abrasion-resistant rubber for sand
- UHMW wear board for rubber flooring
- Two-way reversible blades
- Optional end roller



Best choice for sand bedding!

The new AR-Rubber options offer maximum durability in sand:

- 1" (25 mm) thick, long-lasting wear boards integrated into the arms.
- Redesigned wheel kit that protects both the sled and your floor from wear.



Straight blades

Straight blades feature replaceable hardened wear parts for low maintenance cost. Pivoting arms can be swung closed for tractor passage. Assembled at 3° or 17° angle.

Choose from:

- Steel blades for general use
- Replaceable AR steel edges for sand
- Replaceable AR Rubber edges for sand
- Replaceable urethane edges for rubber flooring
- UHMW or metal wheel set
- Rubber or steel shoe



Replaceable
AR-Rubber or hard-cast
steel shoe.

UHMW, AR-Rubber
or steel wheel kits



Tube-rider system

Under-floor manure channel, the Tube-rider system enables efficient manure evacuation. By minimizing accumulation on blade, it maintains cleaner alleys and streamlines manure handling operations, particularly in long alleys.



Solutions for unequal alleys

Valmetal offers many solutions for systems with alleys of differing lengths. The Slider-Sled kit allows the blade in the short alley to remain idle for a portion of the travel needed by the longer alley. The detachable kit allows a blade in a special care area to remain idle until engaged by the operator.

Accessories

Corner wheels



HD corner wheels

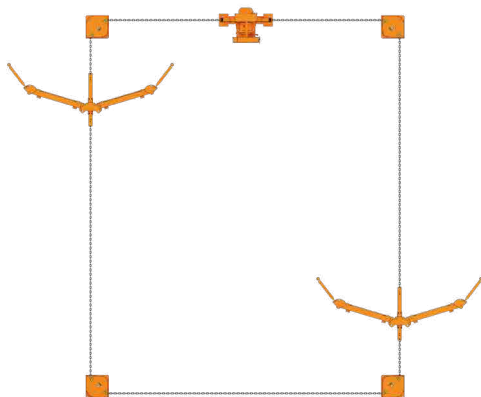
Recommended for high loads and difficult conditions, the HD wheels are equipped with a high-capacity double-row angular ball-bearing module. This sealed unit is protected between two external layers of grease that shield it as manure or sand is flushed away during greasing. 12" (30 cm) or 15" (38 cm) wheels.

Standard corner wheels

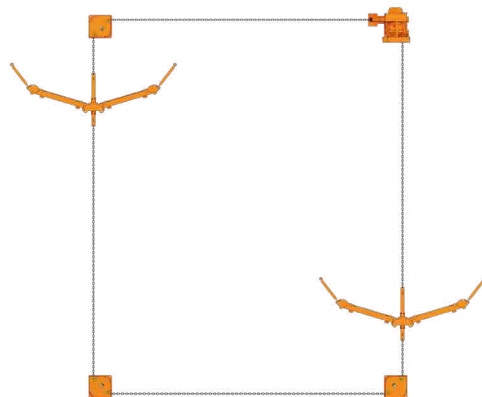
Equipped with a 2-3/8" (6 cm) hardened shaft and replaceable bushing insert, the standard wheel is an economical choice for use in smaller systems. All standard corner wheels feature a removable top for easy cleaning. 12" (30 cm) wheels.

Flexible layout choices

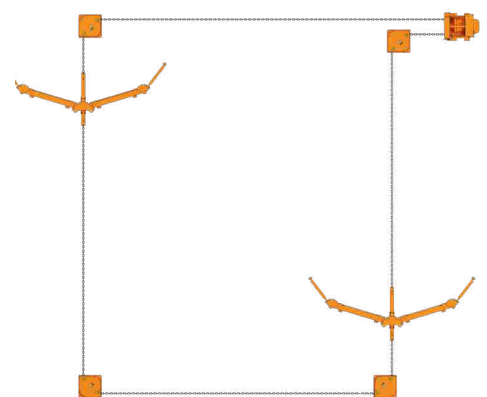
The wheels in all drive units can be configured to suit any layout, giving you complete freedom to place the drive unit where you want.



In-line mount



Corner mount



Offset mount

Smart controls

Scraper-Boss PRO takes care of the entire manure system.

This control panel provides the best animal protection in the business. Its user-friendly control is packed with features, able to control other parts of your manure system, and may be operated by phone or tablet using the Valmetal app.

- Large user-friendly touch-screen control
- Easy to learn, easy to use
- Self-learning cow safety system



EQUIPMENTS



ALARMS



REPORTS



SEQUENCES



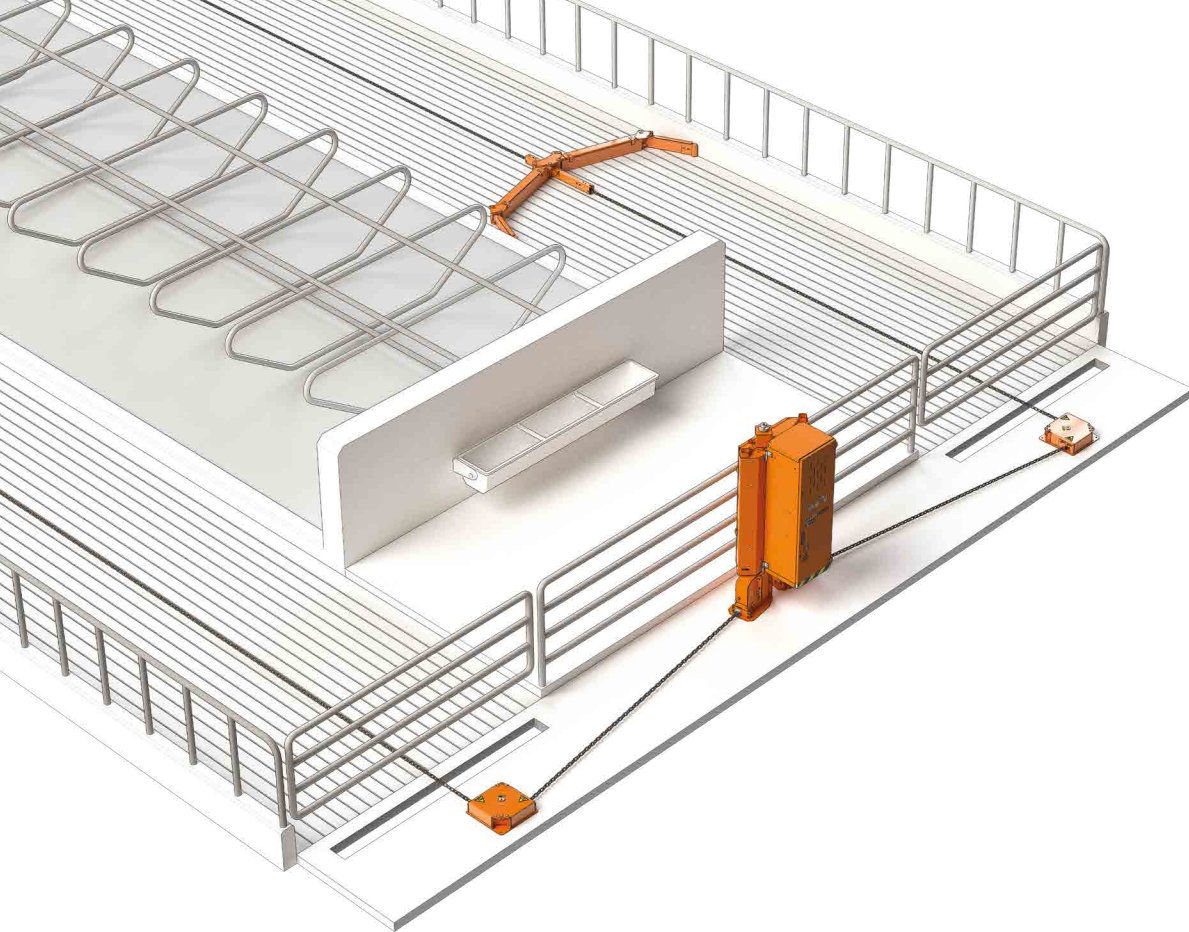
REMOTE
MANAGEMENT
in option



The **Master control** can operate up to 4 alley scraper systems.

- Centralized control
- App-based
- Secondary controls are low cost





Configured for your barn.

Space-saving layouts save up to 4 ft (1.2 m) of barn length and let you place the drive unit where you want.

The next generation of automated alley scrapers delivers the fastest return on investment.

Less energy. Less maintenance. More durability.

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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