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Introduction

Installation

Maintenance



Table Of Contents

Safety

- » Safety Overview
- » Safety Conventions
- » Cautions and Warnings
- » Storage, Transport, and Installation
- » EMC Safety

Introduction

- » System Concept
- » Major Components
- » Hopper
- » Direct Feed
- » Trough Assembly
- » Chain and Drive Unit

- » Suspension System
- » Common Layouts
- » Typical Installation Workflow

Installation

- » System Unpacking
- » Bill of Materials (BOM)
- » Required Tools
- » Assembly Instructions
- » Power and Control Connections

Maintenance

» Checking Chain Tension

Troubleshooting

Technical Specifications

- » Suspension System
- » Drive Unit







Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

1. Safety

This chapter contains an overview of the Chain Feeding System safety concerns and includes:

- Safety Overview
- Safety Conventions

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- Cautions and Warnings
- Storage, Transport, and Installation

Livestock

EMC Safety





Safety Overview

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Plasson's Chain Feeding System has been designed to meet all known safety requirements. During normal operation, the Chain Feeding System presents no hazards to the operator or other personnel. However, in certain circumstances, the following potential hazards to operators and maintenance team personnel exist:

- Electrical shock (220 VAC)
- Mechanical hazard (moving parts, pinch points, etc.)
- Overhead hazard
- Heavy object hazard

The information and instructions presented in this document are intended to help personnel work with Chain Feeding System in a safe, effective, and efficient manner.





Safety Conventions

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Safety information is presented as follows:



Caution is the signal word used to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used alert against unsafe practices.

/ WARNING

Warning is the signal word used to indicate a potentially hazardous situation which, if not avoided, could result in death or severe injury.

! DANGER

Danger is the signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or severe injury. This signal word is limited to the most extreme situations.





Cautions and Warnings

Livestock

The following instructions and guidelines are necessary to ensure safe operation and long system life. Before performing any work on the system, become familiar with the following safety sections:

General Safety Cautions

/!\ CAUTION

- Read the installation and operation instructions prior to installing or before servicing the system.
- · Before working on the system, read all safety standards and instructions to avoid injury or damage to equipment or property.
- Electrical connections must be serviced by a qualified electrician, using certified components only, and according to local regulations and standards.
- Shut off the system before conducting system maintenance.
- Proper operation of the system is not guaranteed if unauthorized parts are used.
- Clean up spills and leaks immediately.
- In case of unusual or irregular noise or vibration, it is necessary to switch off the system.

CAUTION

- Follow operation Instructions and maintenance procedures to prevent mineral and scale build-up.
- Follow operation Instructions and maintenance procedures to prevent algae growth on wet surfaces.
- DO NOT use water containing chlorine as it will cause corrosion.
- DO NOT use water containing chlorides content higher than 200mg/l as it will cause corrosion.





1.3.2 General Warnings

Livestock



• **Hazardous Voltage:** Contact with electrical equipment can cause electric shock or burn if the power supply is turned on. Before starting any work on electrical equipment, disconnect the machine from the power socket.

1.4 Storage, Transport, and Installation

CAUTION

Storage safety:

- Ambient temperature must be between 5°C and 60°C.
- System must not be exposed to humidity, rain, condensation, dust, or direct sunlight during storage.

Transport safety:

- Move the system only when empty of water.
- Move the system using appropriate lifting equipment.
- Avoid heavy vibration during transport.



Installation safety:

- The operator is responsible for the equipment and must not allow unauthorized persons to use the system or be in its vicinity.
- Whenever you handle or repair the equipment, turn off the power supply first.
- Maintenance and repairs must be carried out by qualified technicians authorized by Plasson.
- Always use Plasson components when replacing any defective components.
- All electrical parts must be grounded and installed by a qualified electrician.
- Pay close attention to the safety symbols on the components, as carelessness can lead to serious injury and even death.







Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

EMC Safety 1.5

All Chain Feeding System components comply with IEC EN 61000-6-3, the emission standard for residential, commercial, and light industrial environments.





2. Introduction

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The Chain Feeding System is a durable feeding line which enables fast and even distribution of feed in the chicken house. Multiple configurations are possible, and installation is quick and easy with minimal maintenance required.

This chapter introduces the Chain Feeding System and includes:

Livestock

- System Concept
- Major Components
- Hopper
- Direct Feed
- Trough Assembly
- Chain and Drive Unit
- Suspension System
- Common Layouts

! CAUTION

The system must be installed by a trained and qualified personnel authorized by Plasson.





Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

2.1 System Concept

1. Feed is poured into a hopper and then released onto the chain located in the trough

2. An electric drive unit pulls the chain with the feed around

3. Corner units enable the chain

to smoothly change direction

the entire system

NOTE:

There is an option to pour feed directly into the troughs (see Direct Feed).

NOTE:

5. Adjustable legs support the feeding chain system and allow for adjusting its height

The entire feeding chain system can be placed either on legs (shown), on the ground, or suspended in the air using a suspension system.

4. Restrictions grills placed on top of the trough allow only hens to access the feed

chain movement direction

NOTE:

Feeding chain system for pullets and layers is supplied without restriction grills



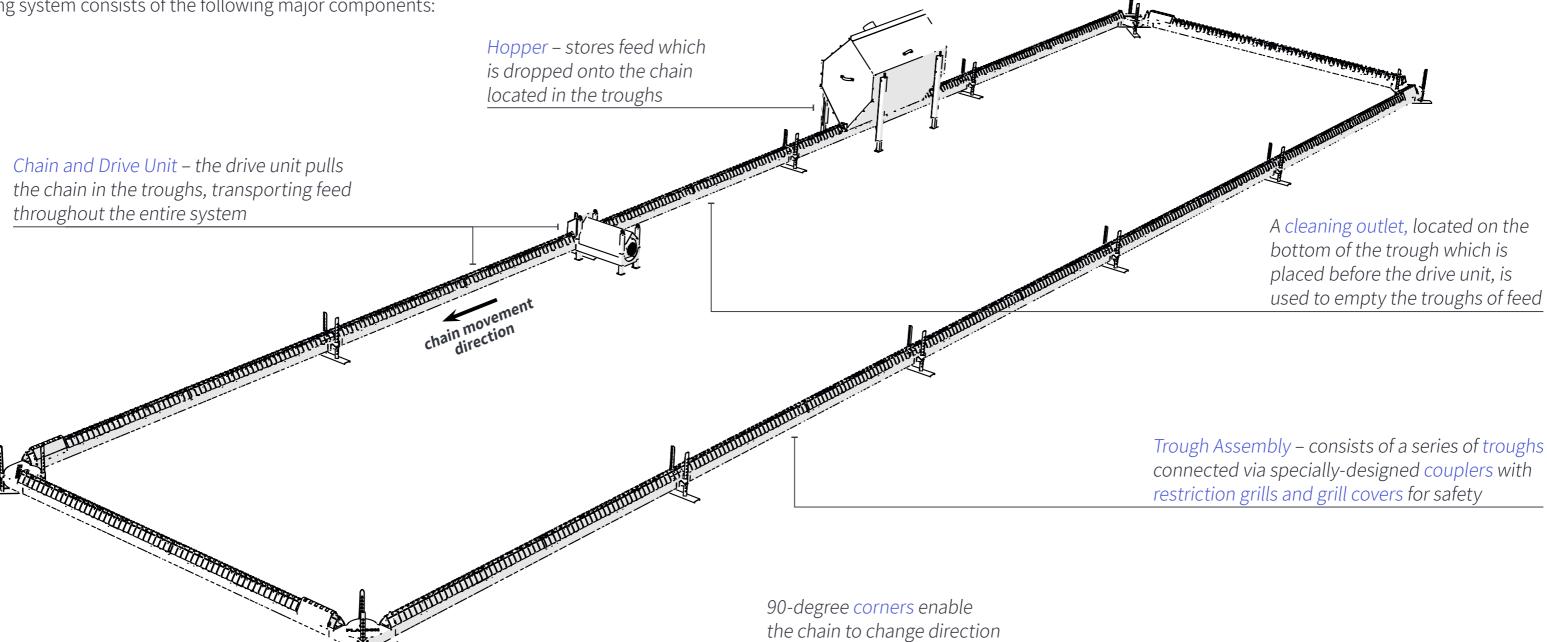


Major Components

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The chain feeding system consists of the following major components:

Livestock







Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

2.3 Hopper

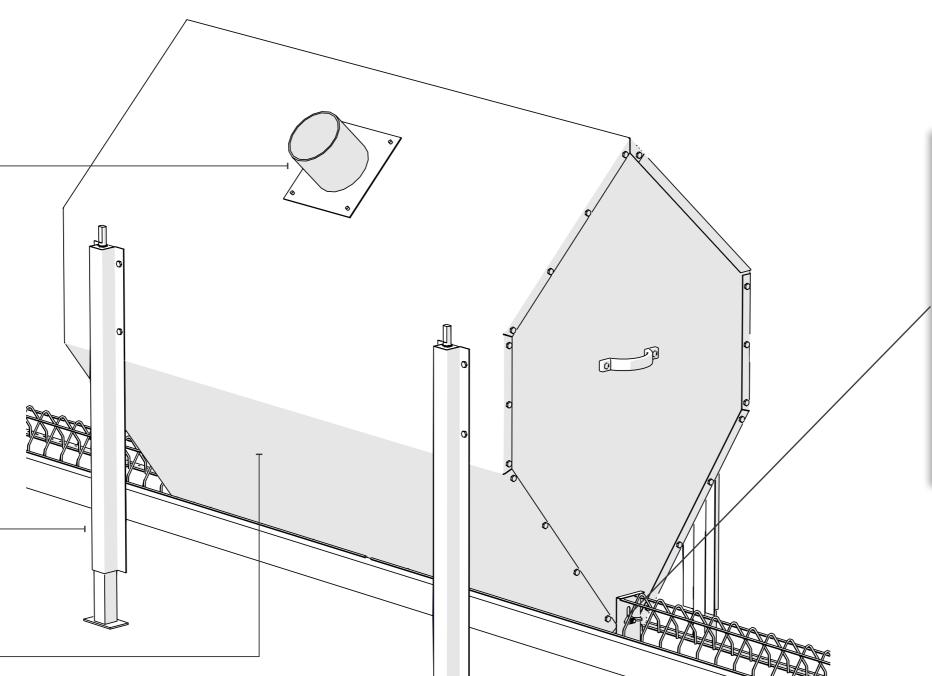


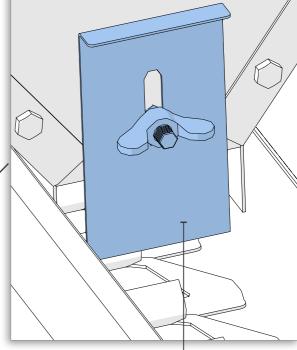
NOTE:

The hopper opening can be sealed with a metal plate if the feed is added manually

The hopper is supported by adjustable legs

2. The hopper can store 150 kg or 260 kg, depending on its size





3. An adjustable shutter controls the amount of feed in the trough





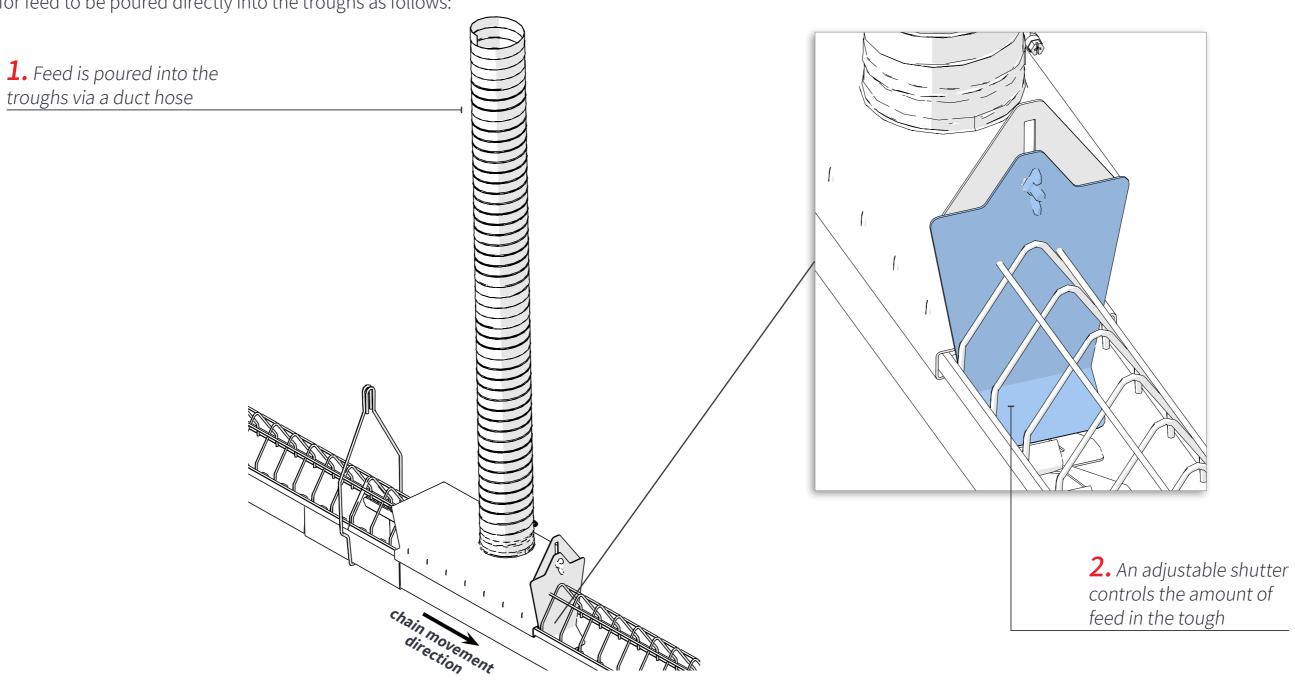
chain movement direction

2.4 Direct Feed

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An optional setup allows for feed to be poured directly into the troughs as follows:









Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

2.5 Trough Assembly

The trough assembly consists of the following:

- Troughs and Couplers
- Corners
- Legs
- Suspension Hooks
- Restriction Grills and Grill Covers
- Cleaning Outlet

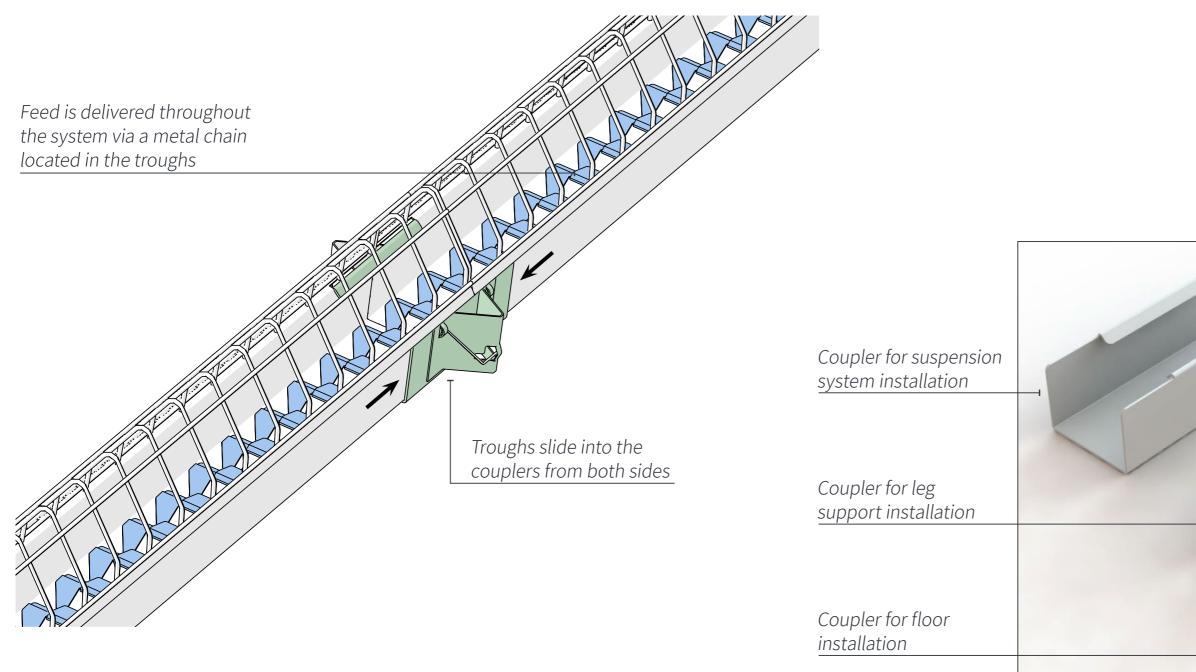




2.5.1 Troughs and Couplers

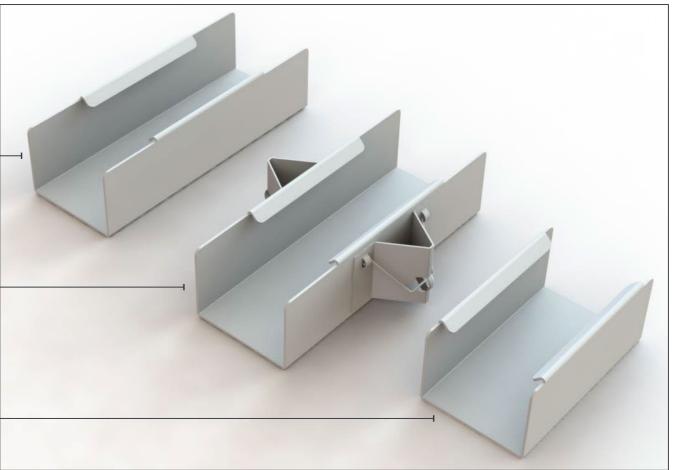
Livestock

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NOTE:

Choice of couplers depends on system configuration.







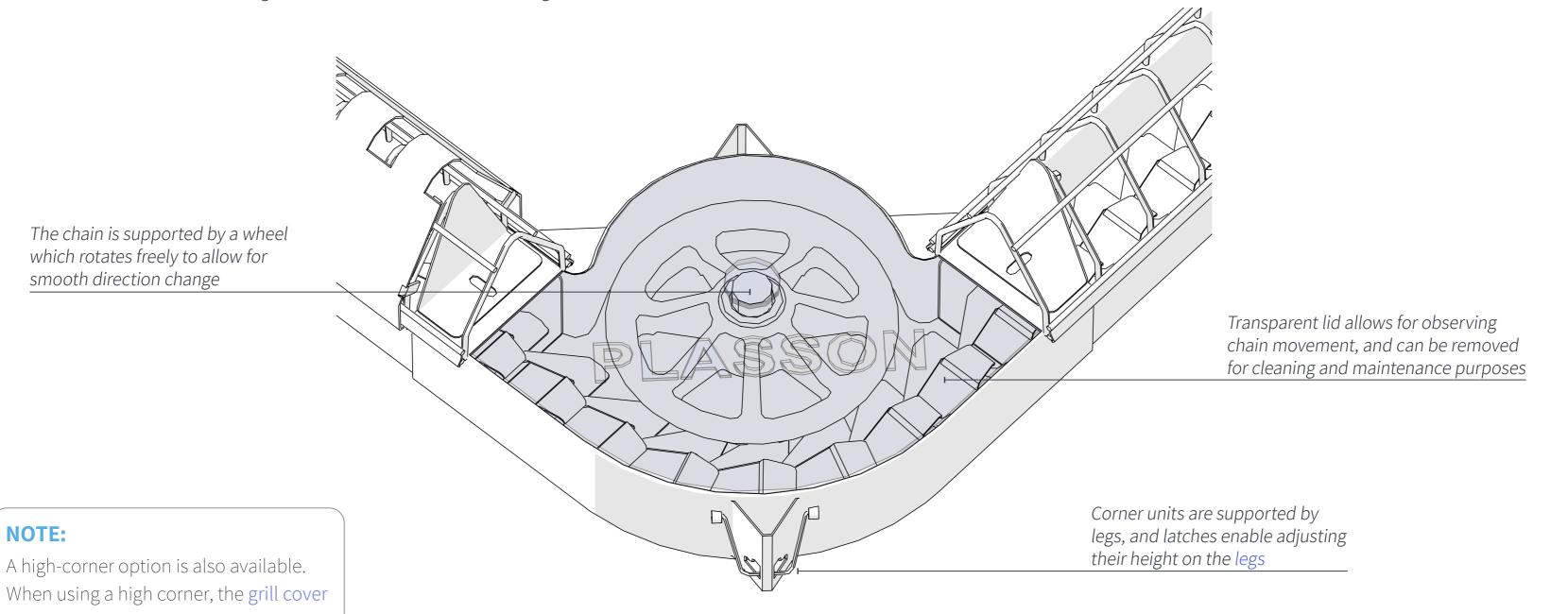
2.5.2 Corners

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smooth direction change

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A corner unit is attached to the troughs whenever there is a need to change the chain direction.





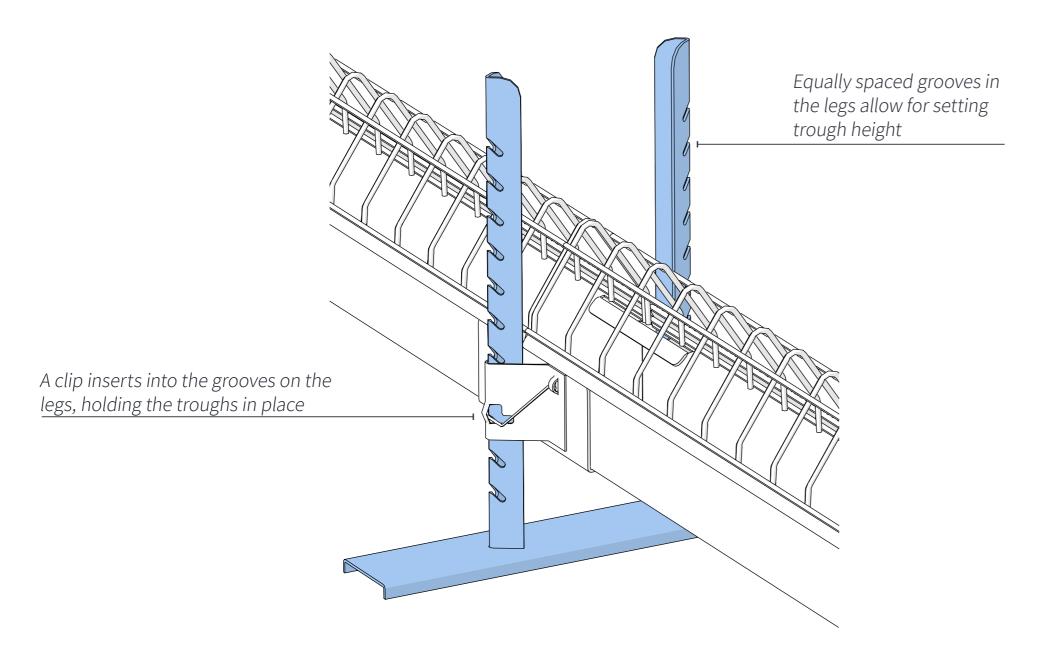


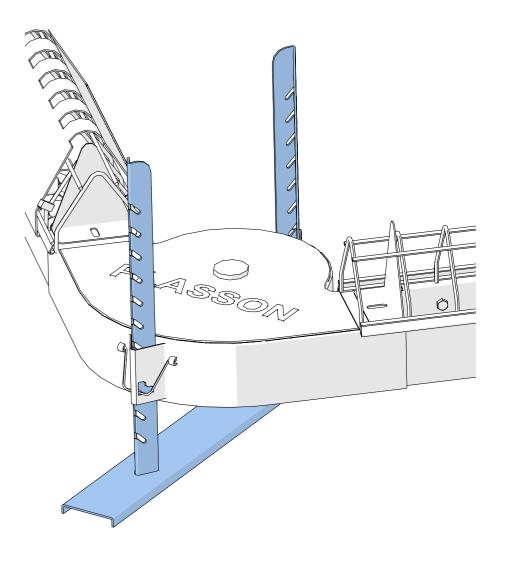
NOTE:

is not necessary

2.5.3 Legs

Adjustable legs attach to the couplers and corner units





NOTE:

The corner unit legs are wider than the coupler legs



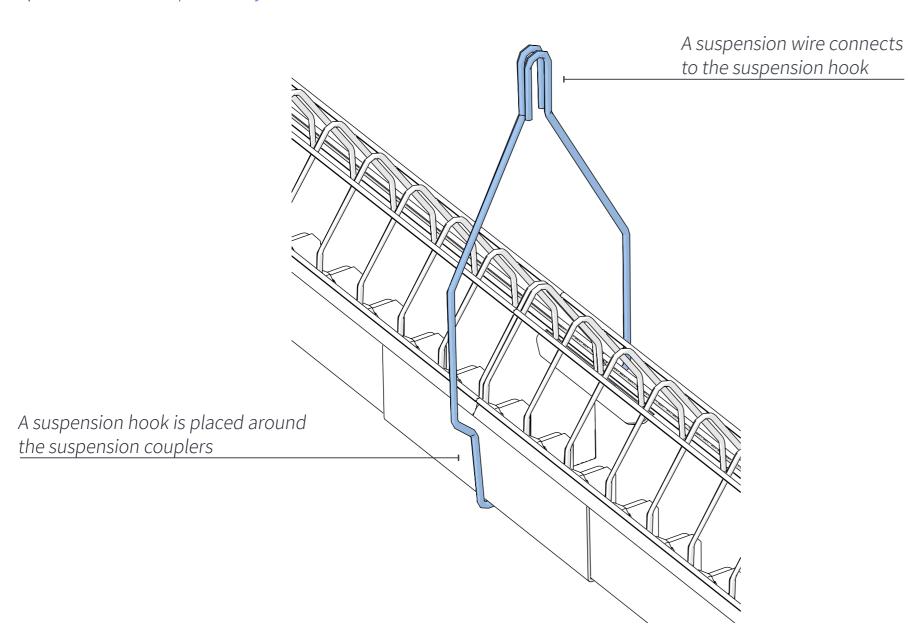


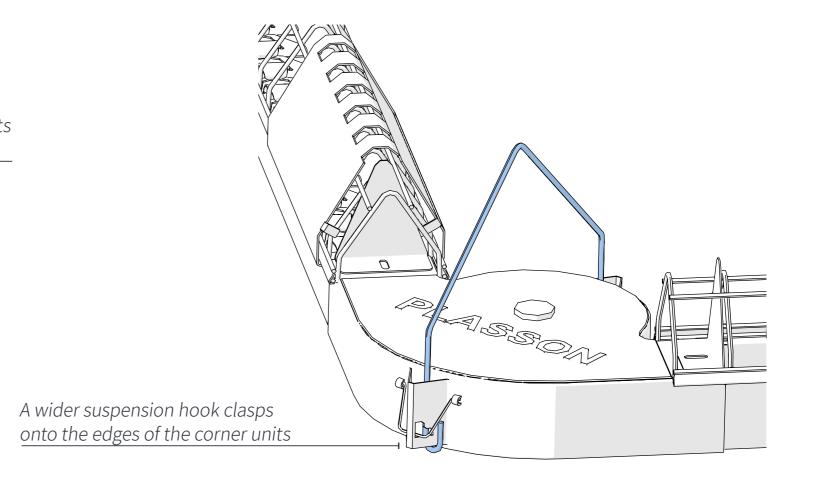
2.5.4 Suspension Hooks

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Suspension hooks are attached to the couplers and corner units when the feeding chain system is suspended via the suspension system.







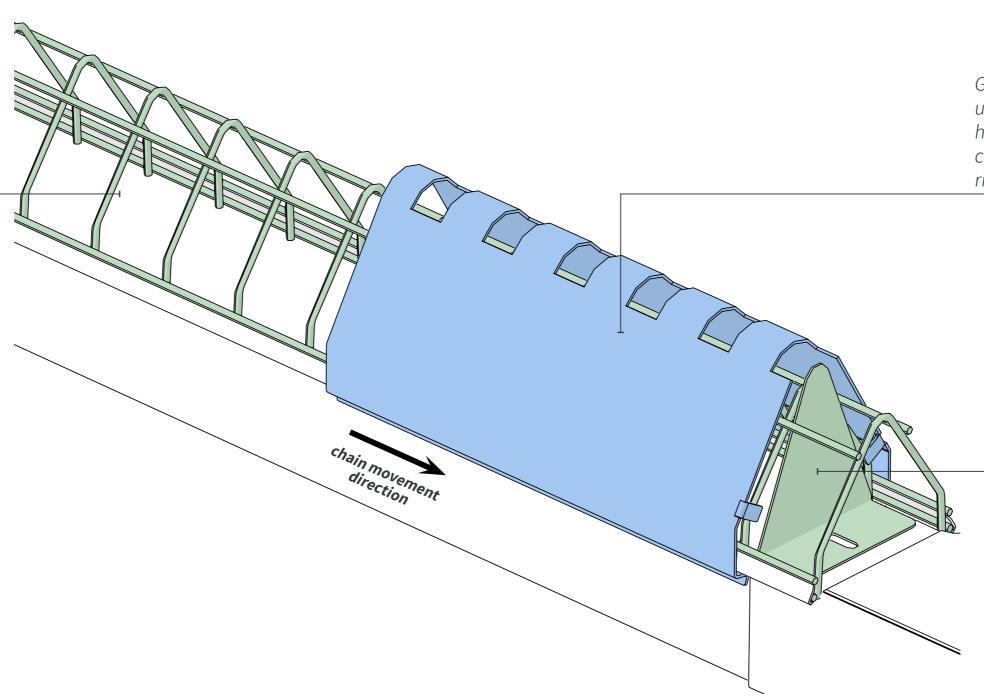


2.5.5 Restriction Grills and Grill Covers

Livestock

The restriction grill limits the size of chickens that can access feed inside the troughs

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Grill covers are placed before every corner unit, before the drive unit, and before the hopper/direct feed unit. They prevent chickens from inserting their heads and risking injury, as well as prevent spillage

Restriction grill end caps, placed on either end of the corner units, prevent chickens accessing feed from the side of the grill

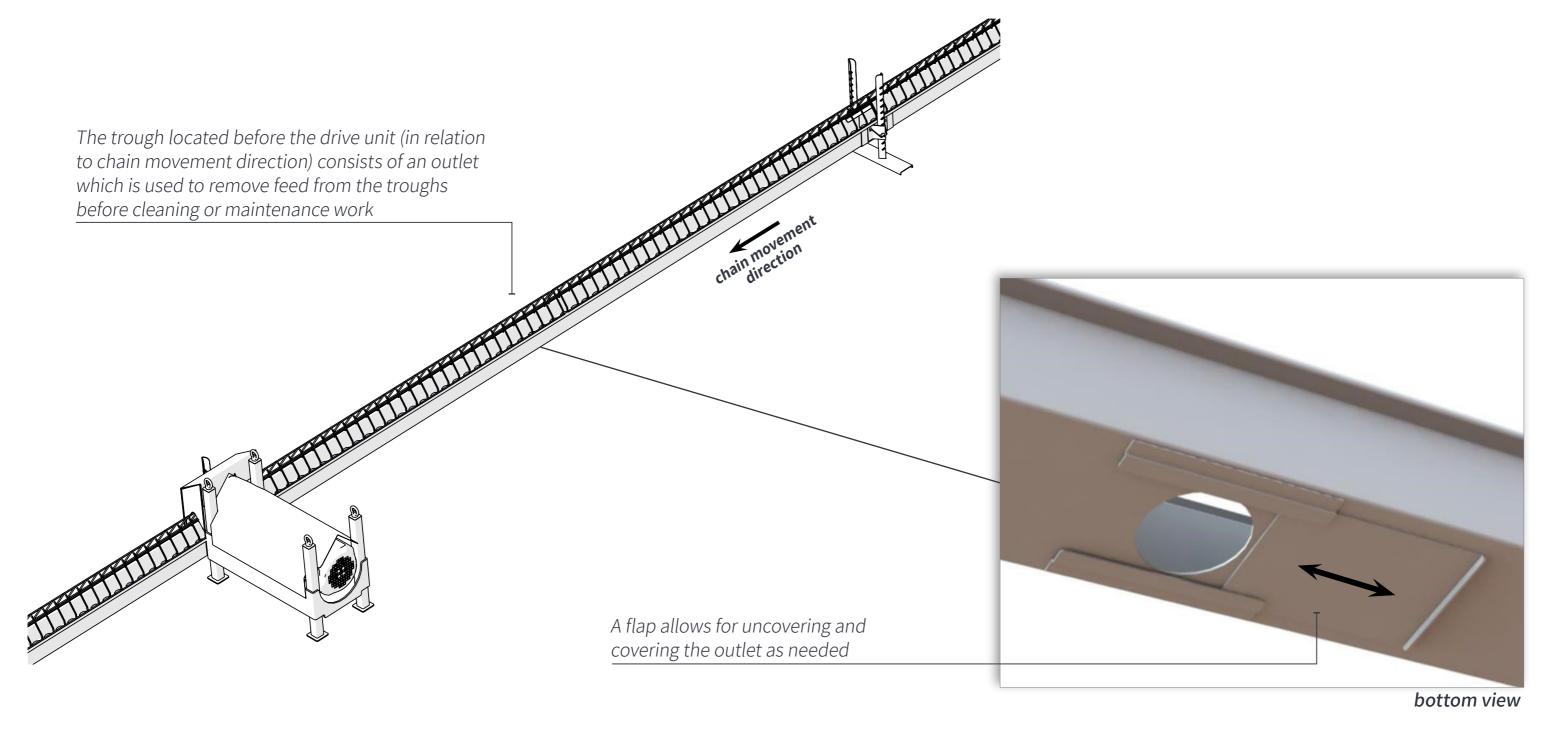




2.5.6 Cleaning Outlet

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Livestock







Introduction

Installation

Maintenance

2. The gear wheel

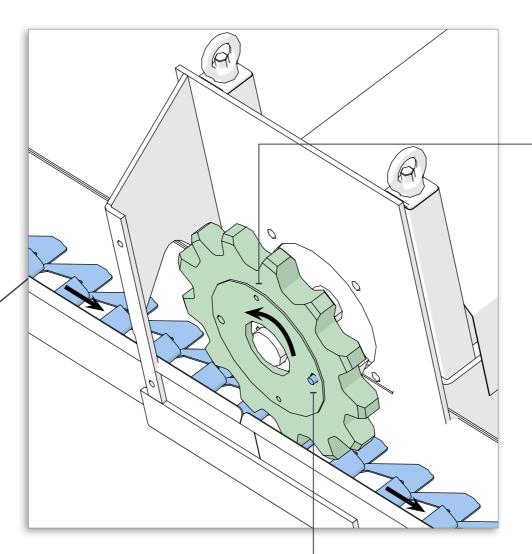
pulls the chain

Troubleshooting

Technical Specifications

2.6 Chain and Drive Unit

1. An electric motor connected to a gearbox rotates the gear wheel

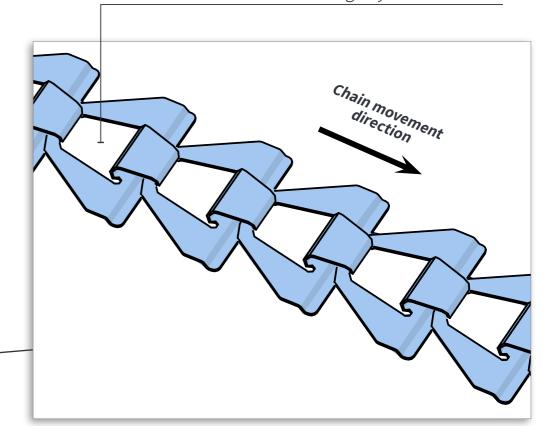


4. A shear pin located in the gear wheel brakes if the chain is stuck, thus protecting the system from damage

NOTE:

If the chain is between 80 and 150 meters, a second drive unit is installed

3. The chain moves the feed, transporting it throughout the entire trough system





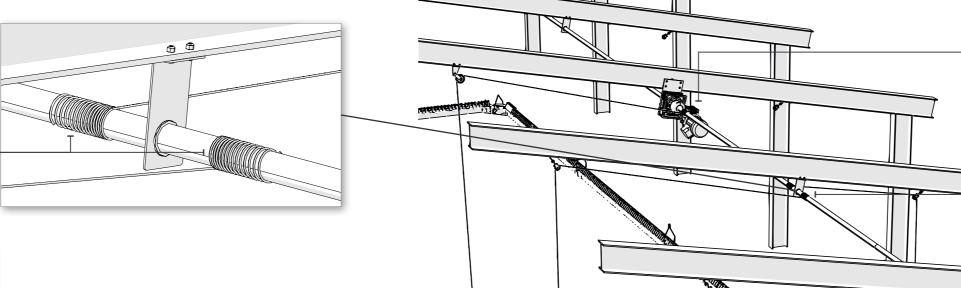


Suspension System

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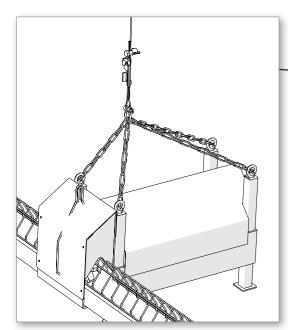
One end of the suspension wires is wrapped around a common axle



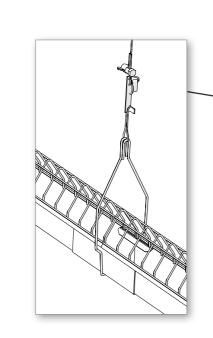
1. A central drive unit attached to the rafters rotates the common axle

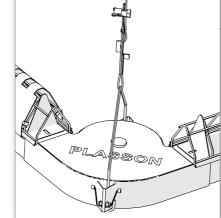
2. Wires wrapped around the common axle lift and lower the system as the axle rotates

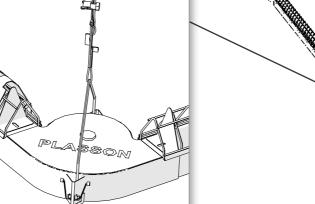
3. Pulleys guide the wires to the suspensions points



The other end of the suspension wires connect to several points around the system











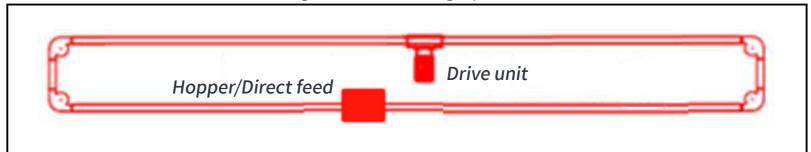
2.8 Common Layouts

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Following are common layouts of the Chain Feeding System:

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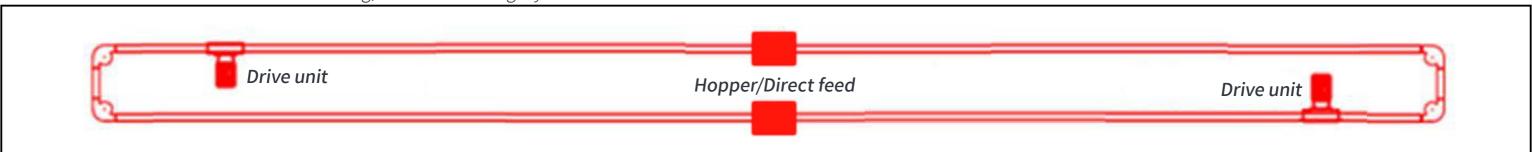
If the chain is less than 80 meters long, use the following layout:



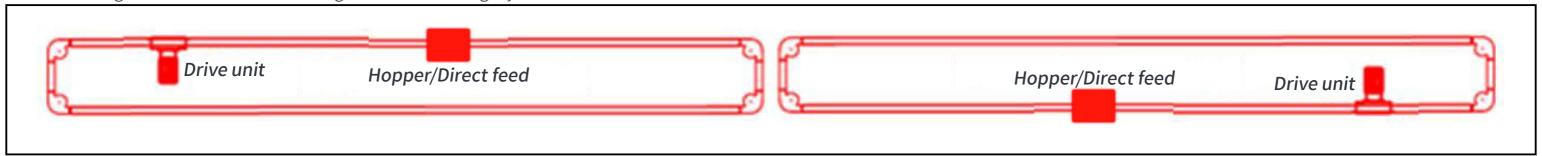
NOTE:

If the system is suspended, a direct feed unit is used. If the system is on legs or on the ground, either a hopper or direct feed unit may be used

If the chain is between 80 and 150 meters long, use the following layout:



If the chain is greater than 150 meters long, use the following layout:







2.9 Typical Installation Workflow

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The typical chain feeding system installation workflow is as follows:

- 1. Mark the location of the chain feeder loops, using the designed layout as a guide.
- 2. If installing the suspended chain feeding system, mark the location of the suspension system parts. Mind the difference in the positions of the drive unit(s) and corners in relation to the trough along the loop.
- 3. Verify there are no conflicts with structural elements of the house (e.g., ensure that the suspension pipes have a continuous path with no interferences).
- 4. Verify there are no conflicts with the other systems in the house, such as the feeding, drinking, and nesting systems, the cross auger feeding line, and the cable troughs (e.g., when there is a drinking system positioned in the middle of a chain feeder loop, position the chain feeding system suspension pipes slightly away from the middle of the chain feeder loop in order to make room for the drinking suspension system).
- 5. Follow the Assembly Instructions.







Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

3. Installation

This chapter reviews the tasks associated with installing the Chain Feeding System and includes:

- System Unpacking
- Bill of Materials (BOM)
- Required Tools
- Assembly Instructions
- Power and Control Connections





3.1 System Unpacking

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Open the system package and verify that all the parts listed in the Bill of Materials (BOM) are located in the package and are intact. If any part is missing or damaged, contact Plasson.

NOTE:

Unpack the system in a clean and dry area.

Livestock

3.2 Bill of Materials (BOM)

The following table displays the list of parts required to assemble a standard section of the system:

ID#	P/N	Description	QTY.
1	02340099	FEEDING CHAIN (PER 1M) PLTS	687
2	02340888	MEDIUM TROUGH FOR SUSPENSION/FLOOR 3M	
3	02340974	MEDIUM TROUGH FOR CLEANING 2.86M SET	
4	02340975	COUPLER MEDIUM TROUGH FOR LEG 155MM SET	
5	02340979	COUPLER MEDIUM TROUGH FOR FLOOR 155MM	
6	02349009	COUPLER MEDIUM TROUGH FOR HANGING 240MM	
7	02340500	CORNER 90 DEG. FOR CHAIN (TS) COM	
8	02340370	LEG FOR COUPLER	
9	02340385	LEG FOR 90 DEG CORNER	

ID#	P/N	Description	QTY.
10	02340976	RESTRICTION GRILL 4555 45 X 55MM 1474MM	
11	02386673	HEXAGON HEAD BOLT M6 X 15MM, SS	
12	02310428	ANTI-LOOSE NUT M6, SS	
13	02310459	WASHER M6, SS	
14	02349043	RESTRICTION GRILL END CAP	
15	02340977	FEED HOPPER 260 KG ON LEGS	
16	02341097	GRILL COVER FOR MEDIUM TROUGH	
17	02340639	CHAIN FEEDER DRIVE UNIT 3 PHASE 1.5HP 36 M/MIN 220/380V SET	
18	02340396	HOOK FOR CORNER 90°	
19	02340397	HOOK FOR MEDIUM TROUGH	
20	02341094	GEARMOTOR FOR C. FEEDER LIFTING 400 NM 7 RPM 1 HP 3PH W/COUPLINGS 1.25" W/ FIXING PLATE SET	
21	02340664	SLIDE BEARING L SUPPORT PLATE 1.25" GAL. (120X40MM)	
22	02320019	DIN 933 M6X20 BOLT	
23	02323061	DIN 985 M6 NUT	
24	02353022	GALV PIPE 1.25" (2.65MM) (PER METER)	
25	02310359	NYLON PULLEY 1-7/8"	
26	02310020	STEEL PULLEY 3.1/2"	
27	02320003	STEEL CABLE 3/32" (2.4MM)	







Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

Rev A | Doc P/N: 080205036E

ID#	P/N	Description	QTY.
28	02320001	CABLE CLAMP 1/8"	
29	02310457	CABLE HEIGHT ADJUSTER	







Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

3.3 Required Tools

Prepare the following tools before beginning assembly:

- Measuring tape
- Hacksaw
- Screwdrivers
- Wrenches
- Hex wrenches
- Socekt set
- Hammer
- Chain tensioner
- Chain separator and assembly tool





3.4 Assembly Instructions

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This section reviews the steps required to assemble the system and includes:

	Page
Step 1: Installing the Suspension System	30
Step 2: Placing the Drive Unit	35
Step 3: Installing the Adjustable Legs	36
Step 4: Installing the Troughs	37
Step 5: Optional Installation – Suspended System	41
Step 6: Installing and Placing the Feed Hopper	42
Step 7: Installing the Direct Feed Unit	44
Step 8: Installing the Chain	45
Step 9: Connecting the Chain Ends	46
Step 10: Connecting the Drive Unit Gear Wheel	47
Step 11: Connecting the Suspension Cables	48
Step 12: Installing the Restriction Grills, Grill Covers, and End Caps	50



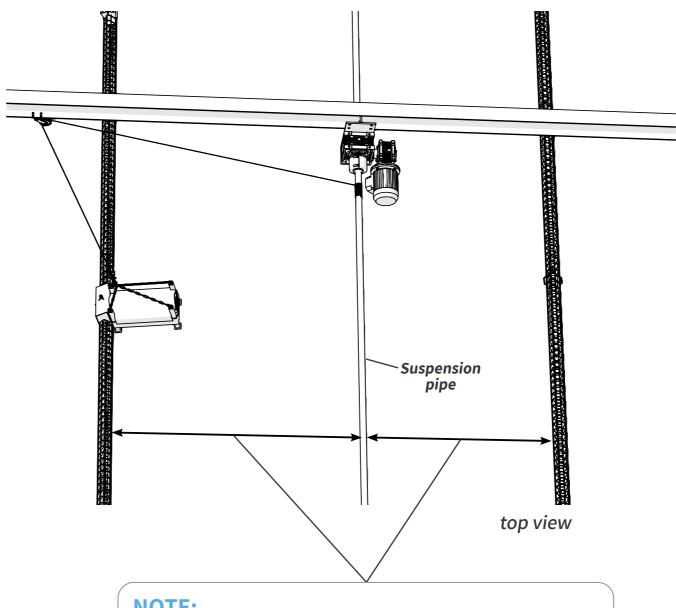


Step 1: Installing the Suspension System

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Before installing the suspension system, note the following:



NOTE:

If needed, the feeding chain suspension pipe can be installed off-center. This may be the case, for example, if the drinking system is also being installed







Introduction

Installation

Maintenance

Troubleshooting

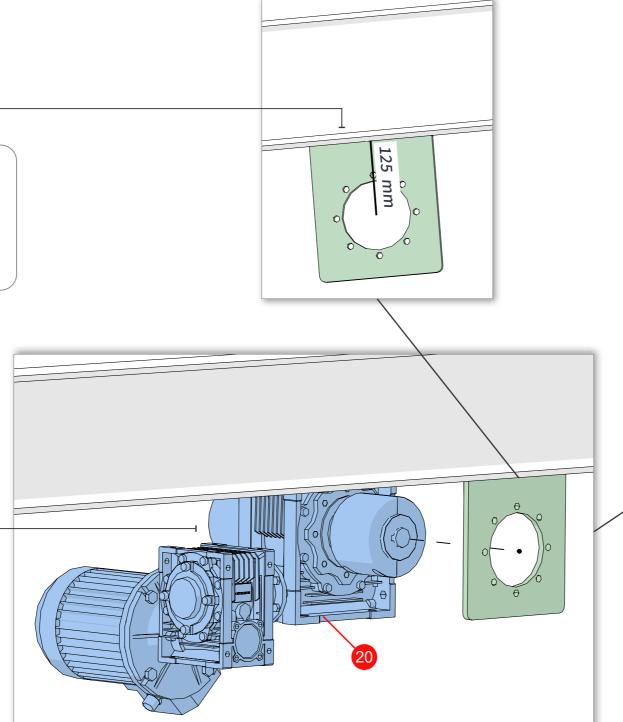
Technical Specifications

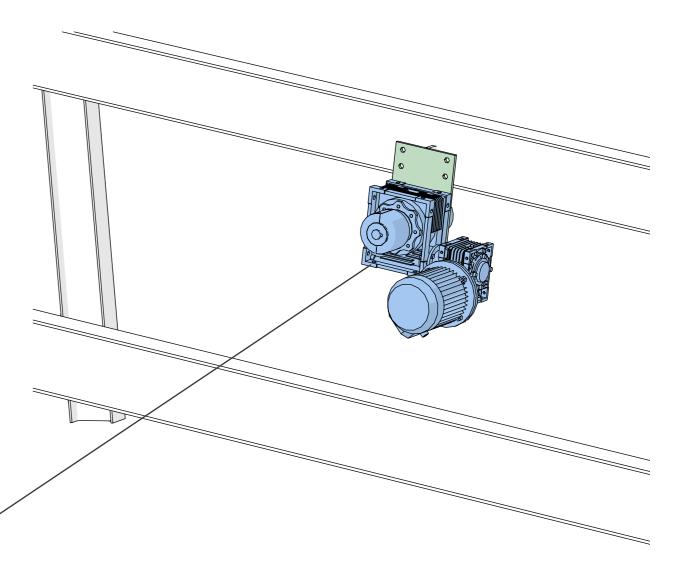
1. Weld the drive unit plate to the center roof beam

NOTE:

The center of the drive unit plate circle must be 125 mm from the bottom of the beam.

2. Attach the suspension drive unit (20) to the drive unit plate









Introduction

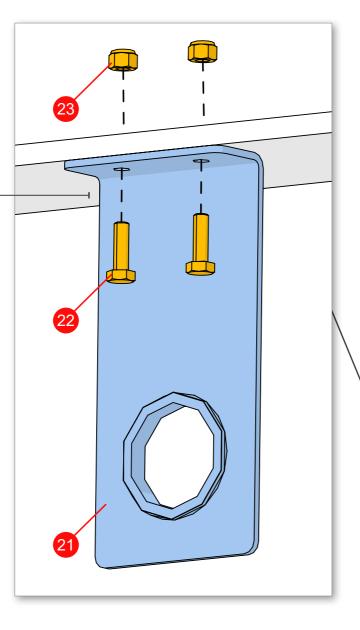
Installation

Maintenance

Troubleshooting

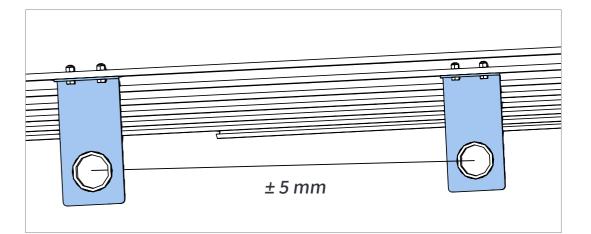
Technical Specifications

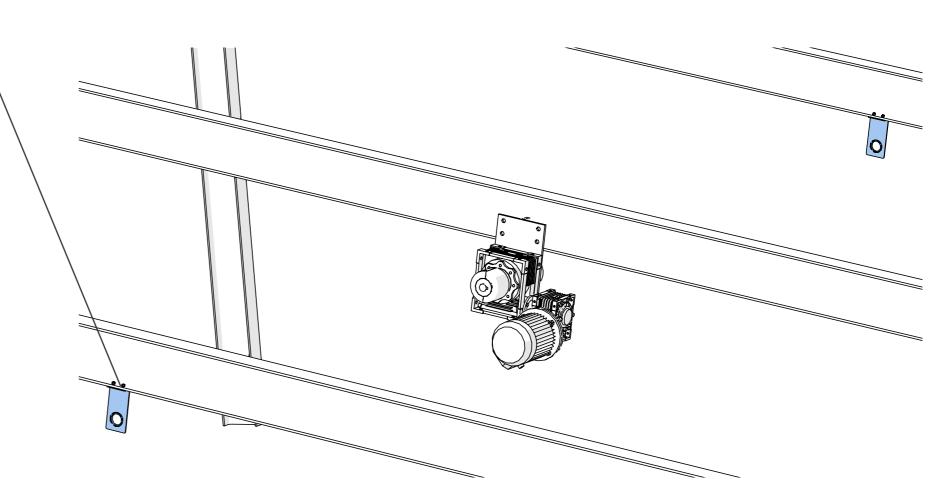
3. Attach the suspension pipe bearings (21) to the roof beams using two bolts (22) and two nuts (23)



NOTE:

Tolerance between bearing centers is ± 5 mm vertically and horizontally





NOTE:

The distance between bearings should be 4 meters or less. For longer distances consult a Plasson representative.





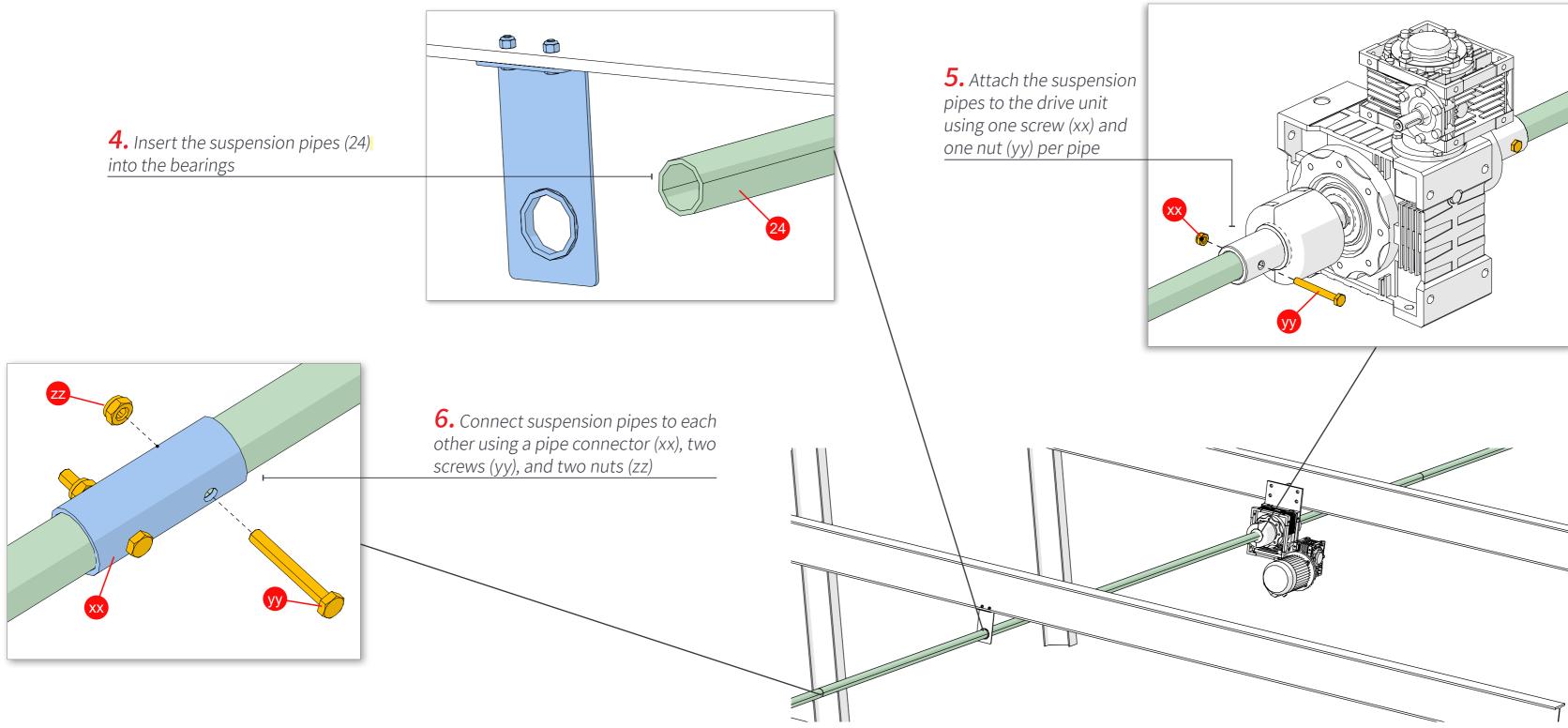
Safety Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications





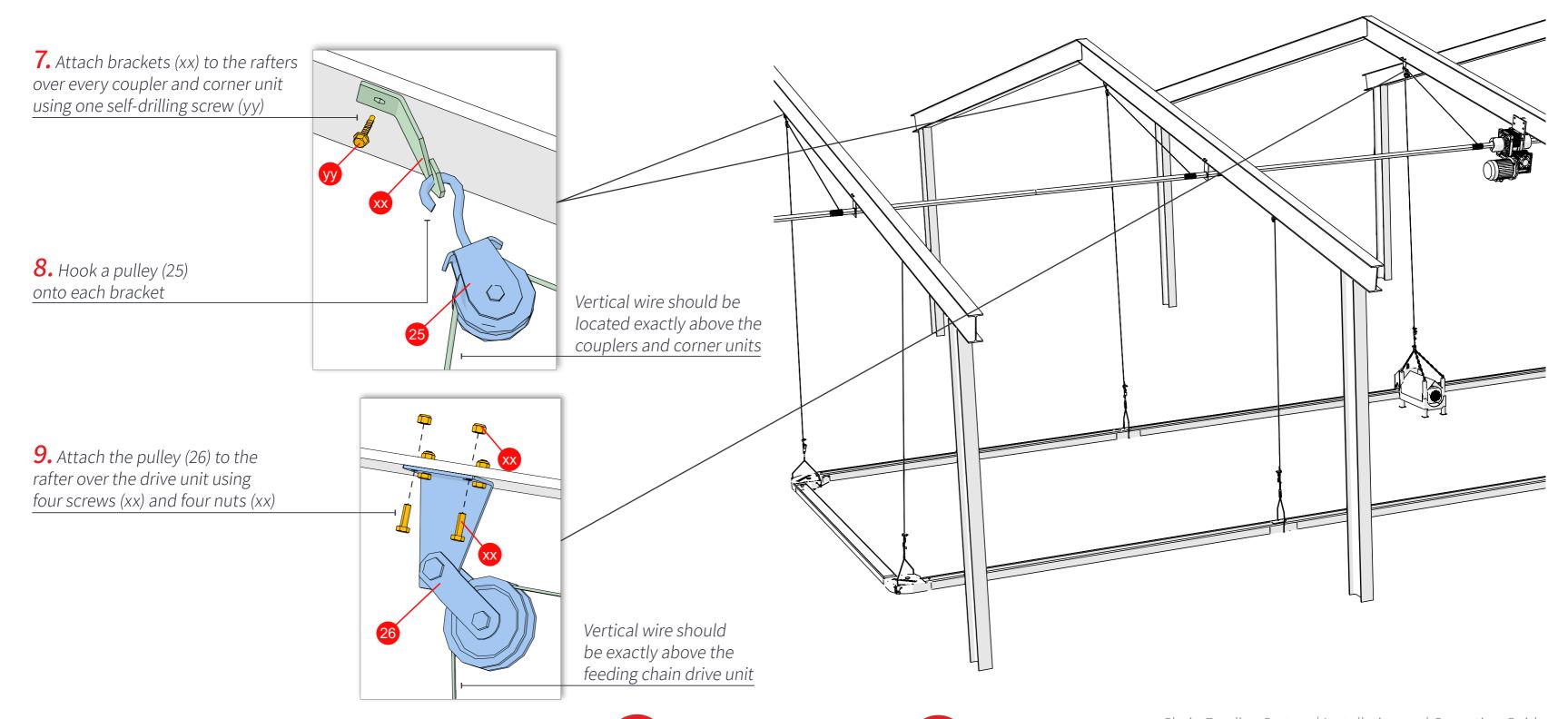
Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications



Introduction

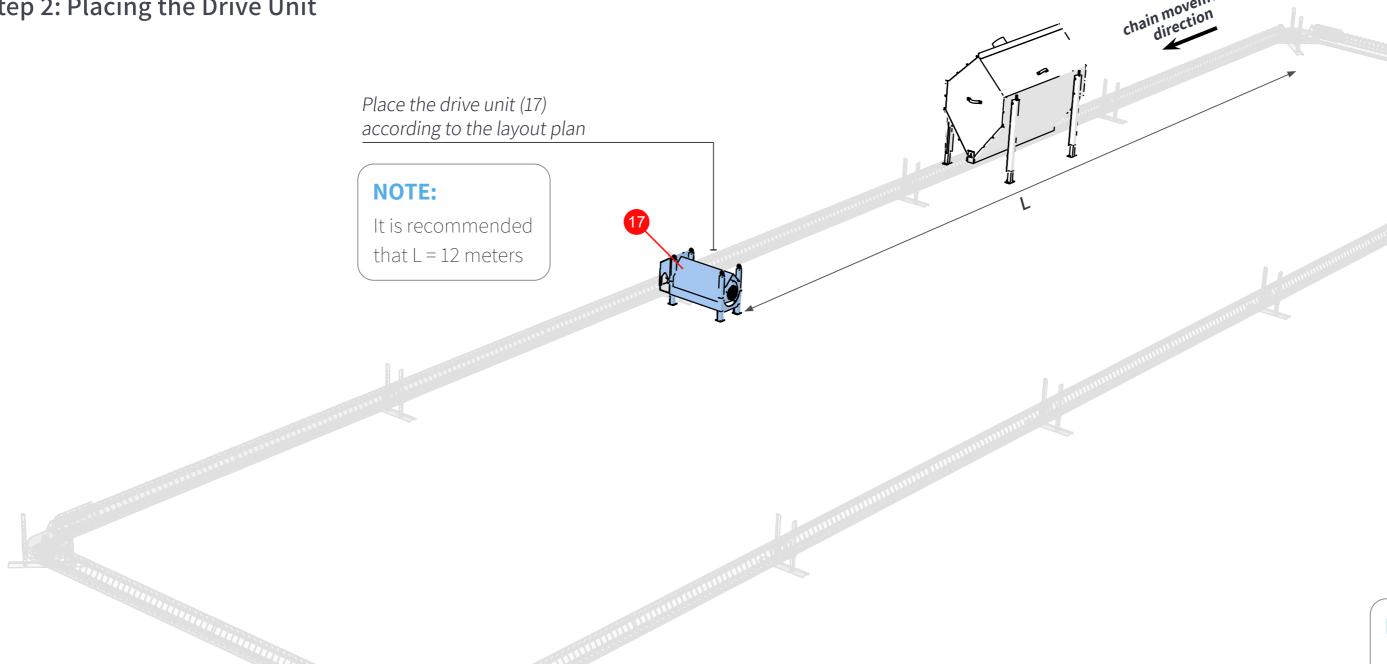
Installation

Maintenance

Troubleshooting

Technical Specifications

Step 2: Placing the Drive Unit



NOTE:

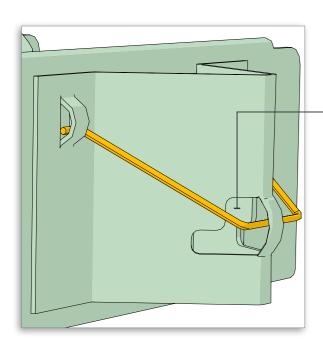
Placement of the drive unit/s depends on the feeding line layout (see Common Layouts)





Step 3: Installing the Adjustable Legs

Livestock



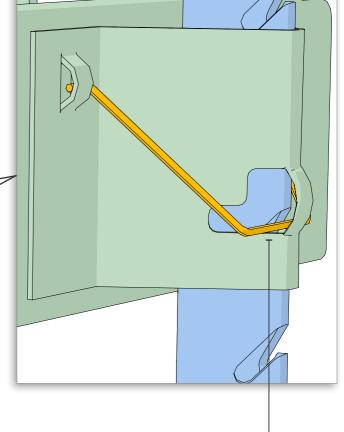
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1. Pull the spring clip up to enable lowering the coupler and corner units onto the legs

2. Lower the coupler units (4) onto the coupler legs (8)



Verify all couplers and corner units are at the same height from the ground



4. Ensure the spring clips are securely positioned in the leg grooves





When the system is suspended or situated on the floor, this step is not needed.





Introduction

Installation

Maintenance

Troubleshooting

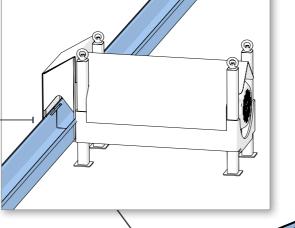
Technical Specifications

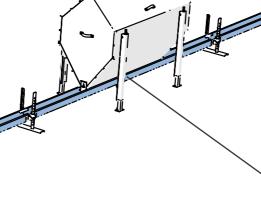
Step 4: Installing the Troughs

Connect the troughs (2) throughout the entire feeding chain system as follows:

1. Connect the troughs to the drive unit (see step 5A)

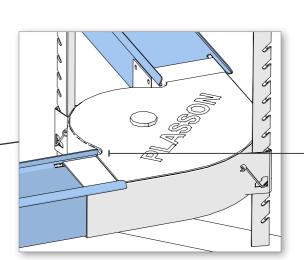
2. Connect the troughs to the coupler units (see step 5B)





NOTE:

A trough is placed below the hopper but is not connected to it



3. Connect the troughs to the corner units (see step 5C)





Introduction

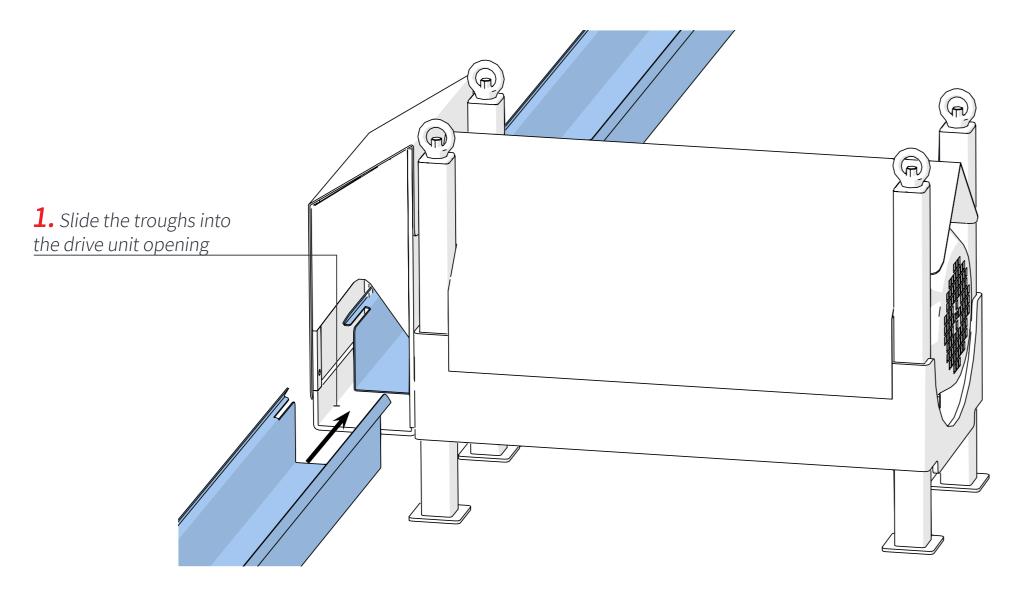
Installation

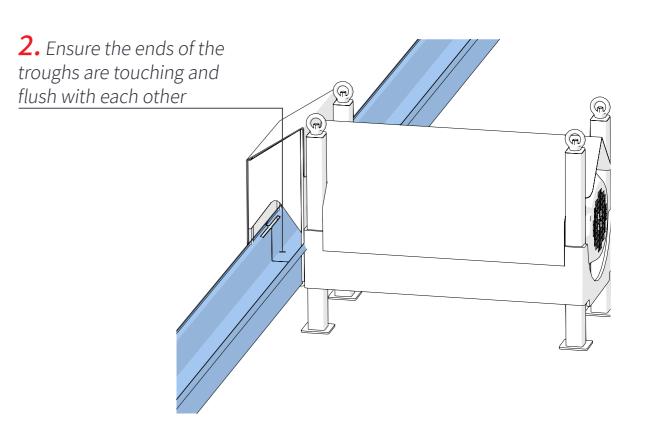
Maintenance

Troubleshooting

Technical Specifications

Step 4A: Inserting Troughs into the Drive Unit





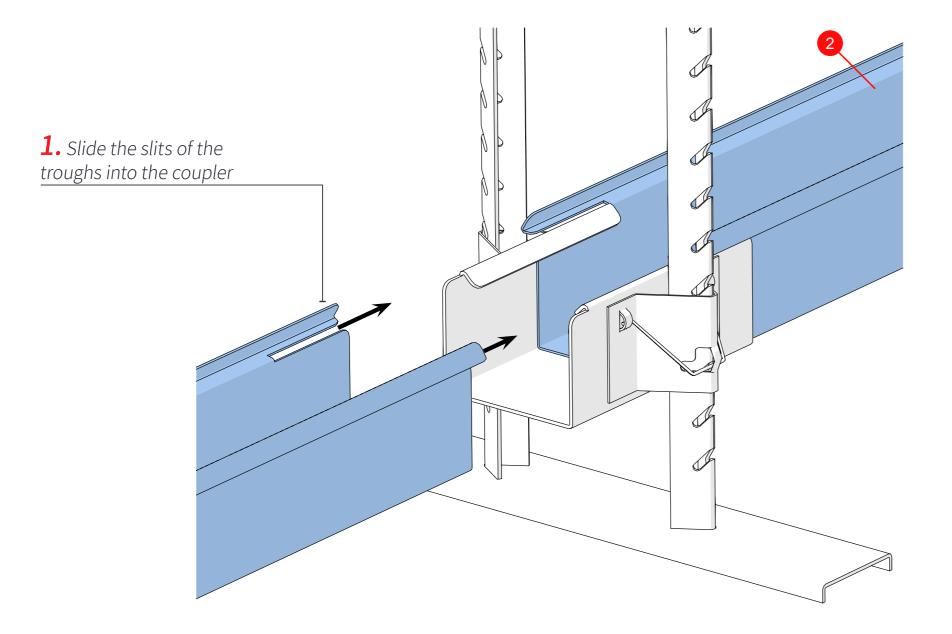




Step 4B: Inserting Troughs into Couplers

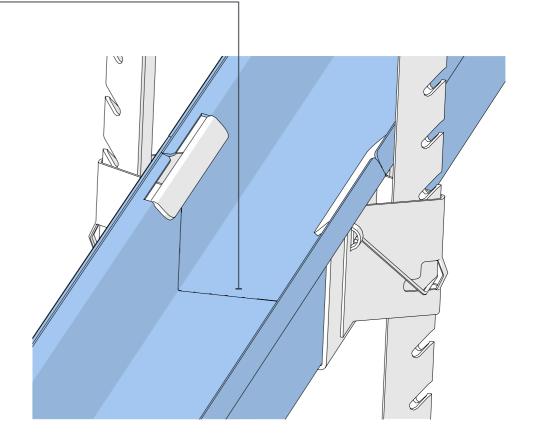
Livestock

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Safety

2. Ensure the ends of the two troughs are touching and flush with each other







Introduction

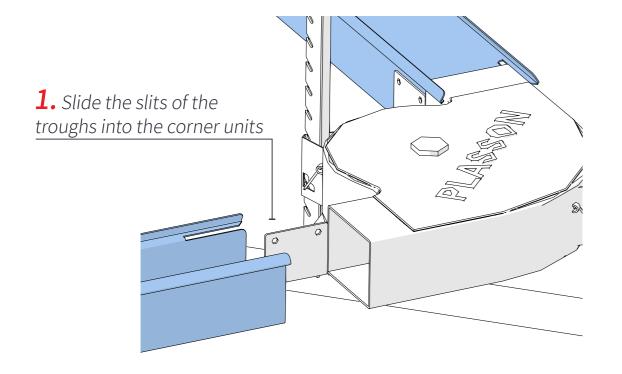
Installation

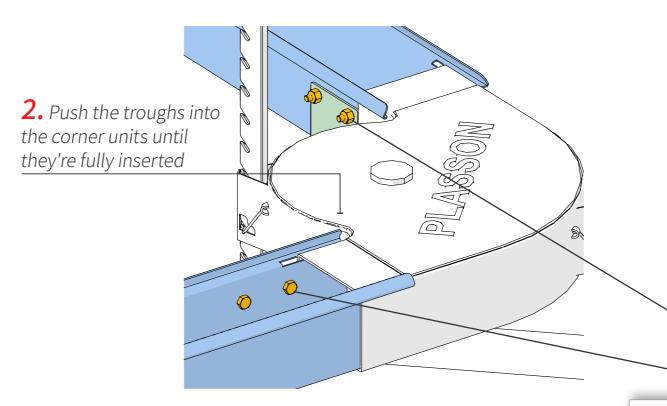
Maintenance

Troubleshooting

Technical Specifications

Step 4C: Inserting Troughs into Corners



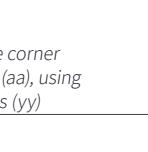


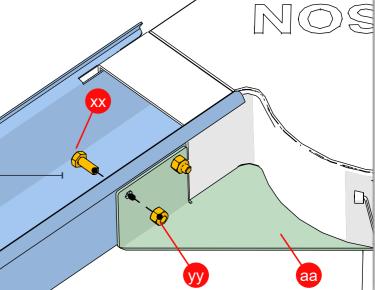
bottom view

NOTE:

Corner support is not used when system is installed on the ground

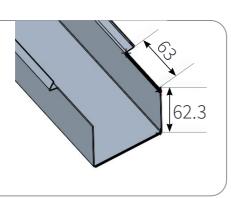
3. Attach the troughs to the corner units via the corner support (aa), using two screws (xx) and two nuts (yy)





NOTE:

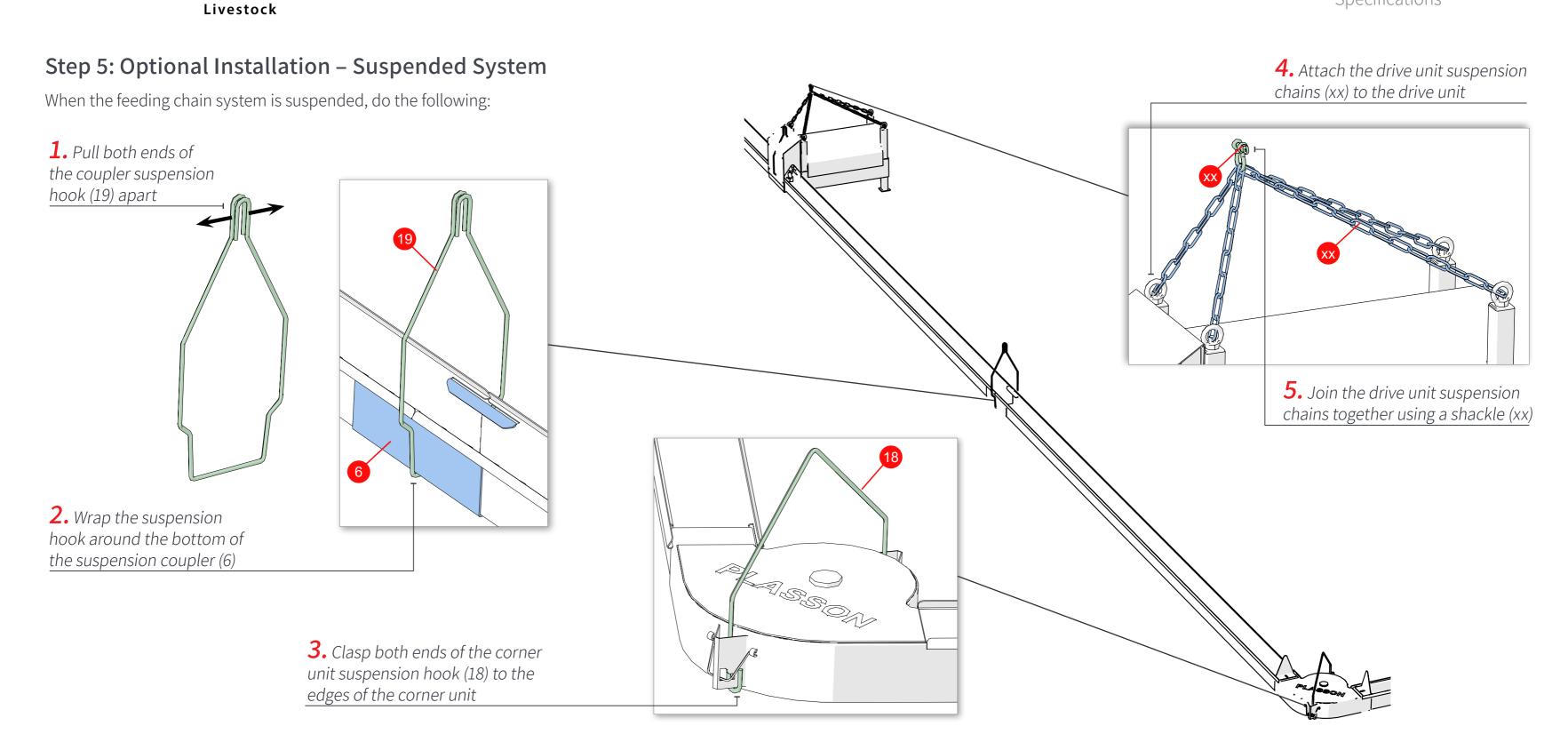
If the trough is shorter than 3 meters, cut the ends according to the following dimensions (in mm):







Chain Feeding System | Installation and Operation Guide Rev A | Doc P/N: 080205036E





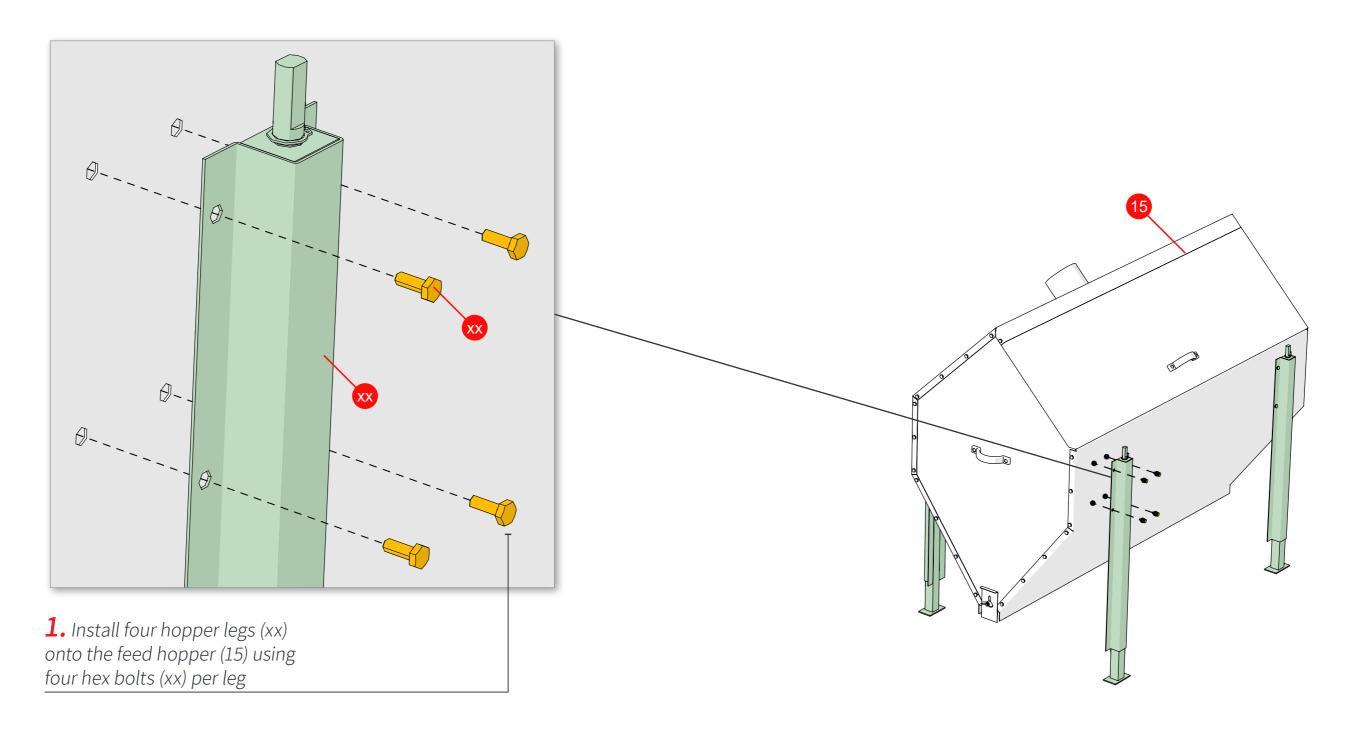


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Step 6: Installing and Placing the Feed Hopper

Livestock

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Introduction

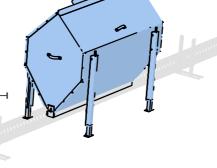
Installation

Maintenance

Troubleshooting

Technical Specifications





NOTE:

Placement of the feed hopper depends on the feeding line layout (see Common Layouts). If a direct feed unit is used instead, see Installing the Direct Feed Unit









Installation

Maintenance

Troubleshooting

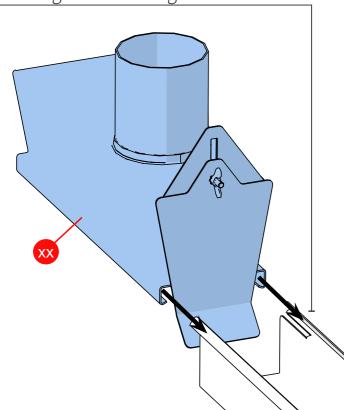
Technical Specifications

Step 7: Installing the Direct Feed Unit

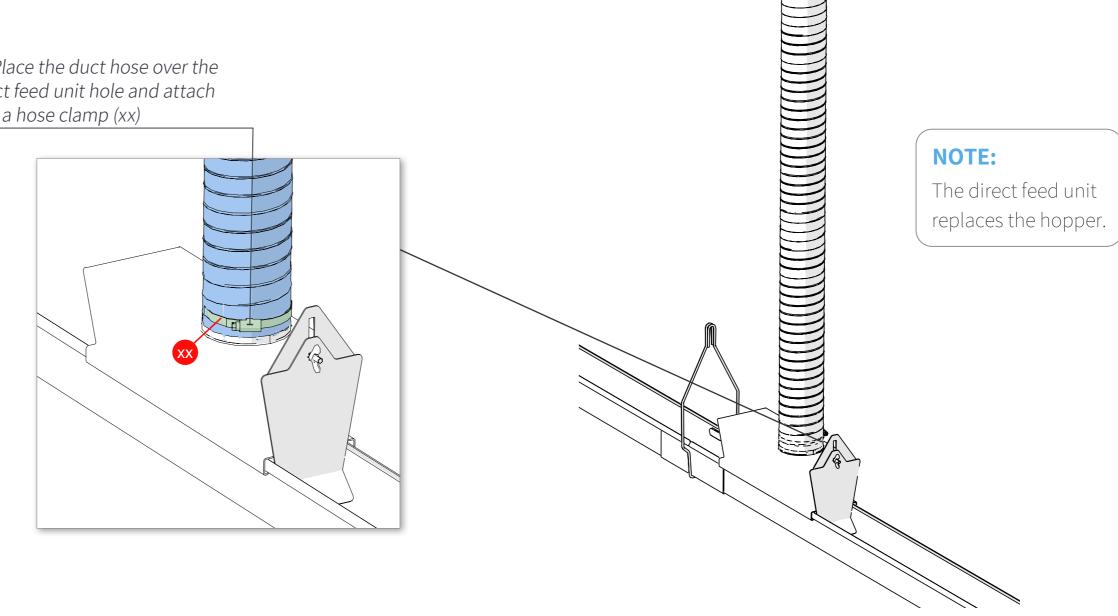
Livestock

1. Slide the direct feed unit (xx) onto the edges of the trough

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2. Place the duct hose over the direct feed unit hole and attach with a hose clamp (xx)







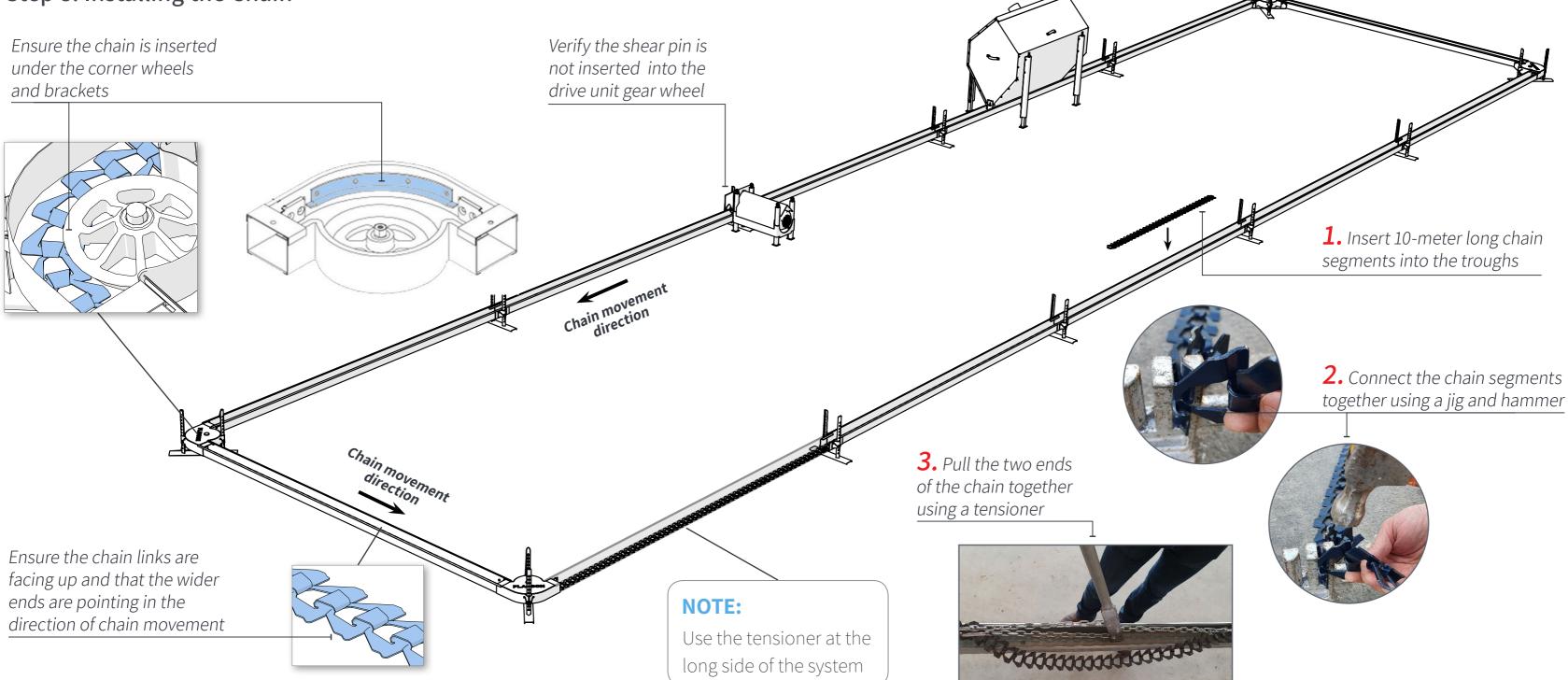
Introduction

Installation Maintenance

Troubleshooting

Technical Specifications

Step 8: Installing the Chain







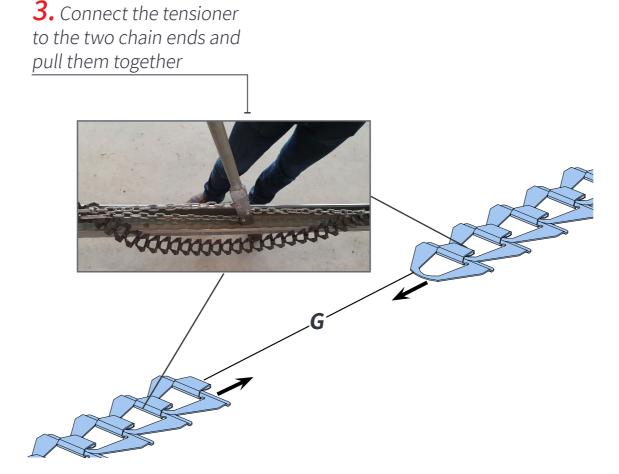


Step 9: Connecting the Chain Ends

- **1.** Remove overlapping chain links until the two ends of the chain are not more than one link distance of each other.
- **2.** Remove additional chain links until the gap (G) between the two ends of the chain conforms to the following table:

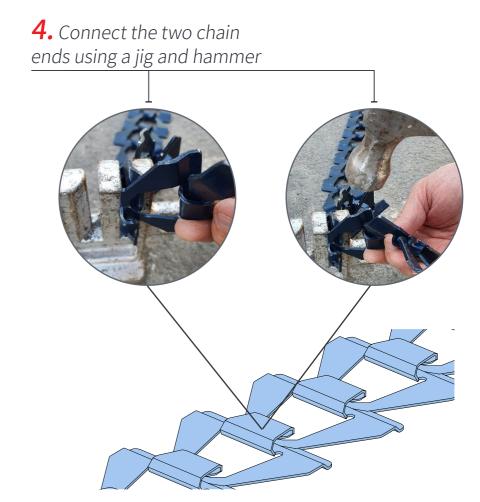
Circuit length (m)	# links to remove (G) - single drive system	# links to remove (G) - dual drive system
90	7	2
120	10	3
150	13	3
180	15	4
210	18	5
240	21	5
270	23	6
300	26	7
330	29	7
360	not recommended	8
390	not recommended	9

Example: If the circuit length is 240 meters long, remove 21 chain links (or 5 chain links for a dual drive system) so that the gap (G) between the two ends of the chain is 21 links long.



NOTE:

Chain tension is checked by observing chain slack at the point where the chain leaves the drive unit. The chain should pull downwards with a force of about 5 kg after it's lifted up



5. Operate the chain for one hour, then repeat 1-3

NOTE:

After two weeks of continuous operation, repeat this step





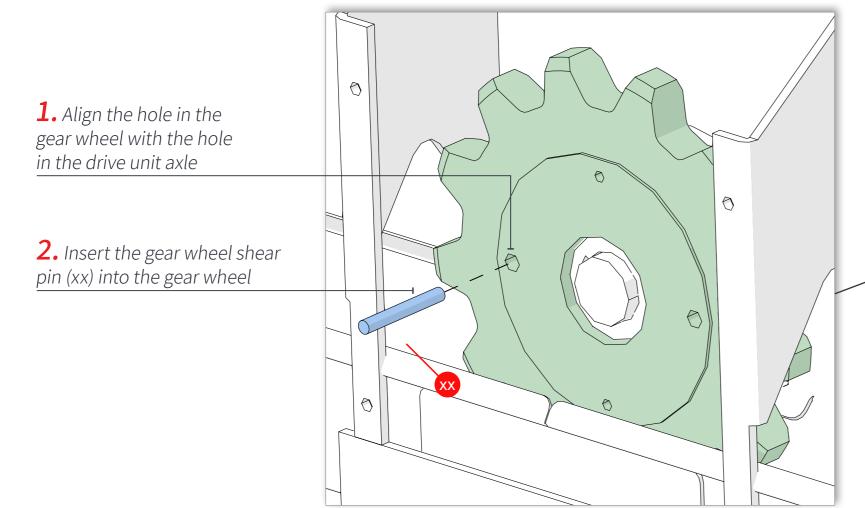
Step 10: Connecting the Drive Unit Gear Wheel

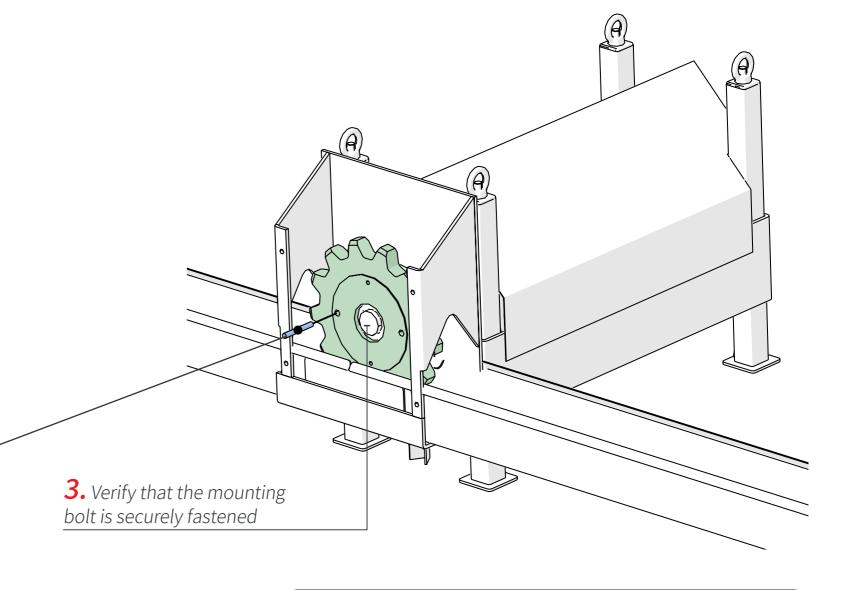
Livestock

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The drive unit gear wheel comes pre-attached to the drive unit but is able to rotate freely.

Once the entire chain is connected, perform the following steps to connect the gear wheel with the drive unit axle:





NOTE:

The gear wheel contains four holes, each with a different diameter. This allows shear pins of various thicknesses to be used, based on the drive unit overload rate. The system is delivered with the relevant shear pin.

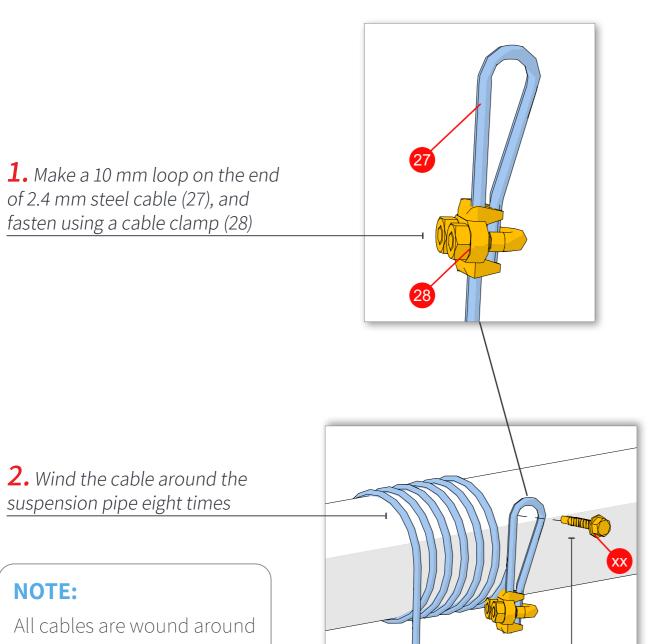




Step 11: Connecting the Suspension Cables

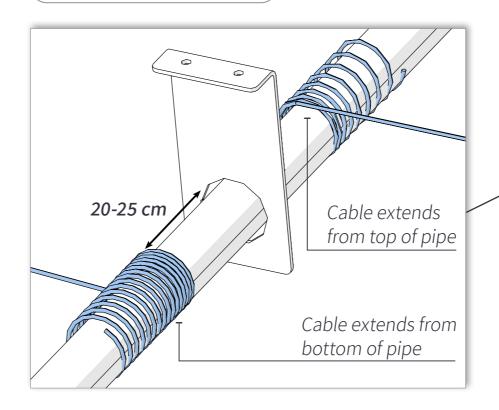
Livestock

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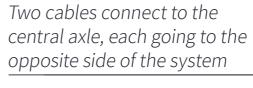


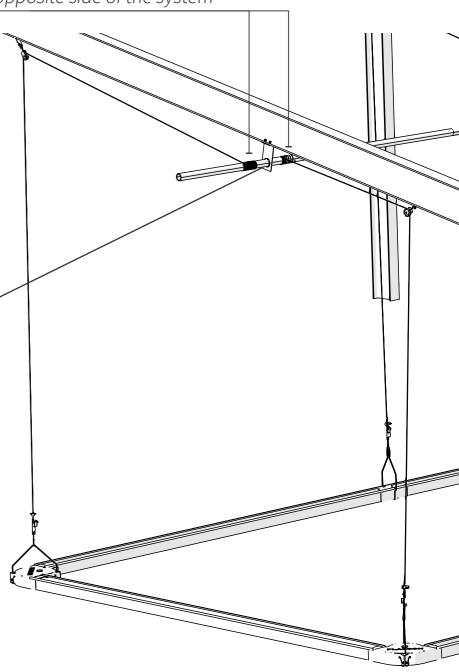
NOTE:

Cables must be 20-25 cm from the bracket



3. Attach the cable to the suspension pipe using a self-drilling screw and washer (xx)

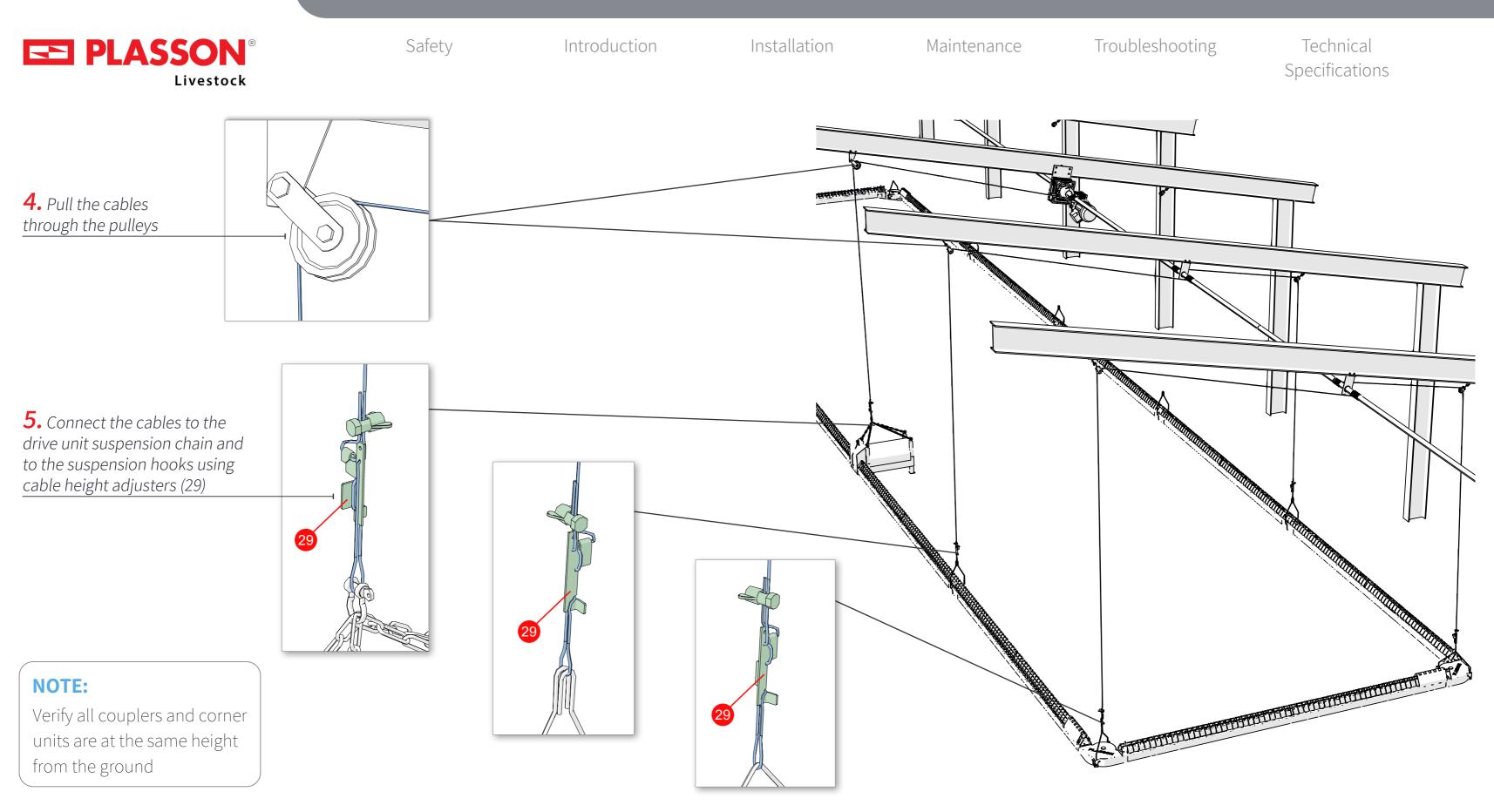




All cables are wound around the suspension pipe in the same direction

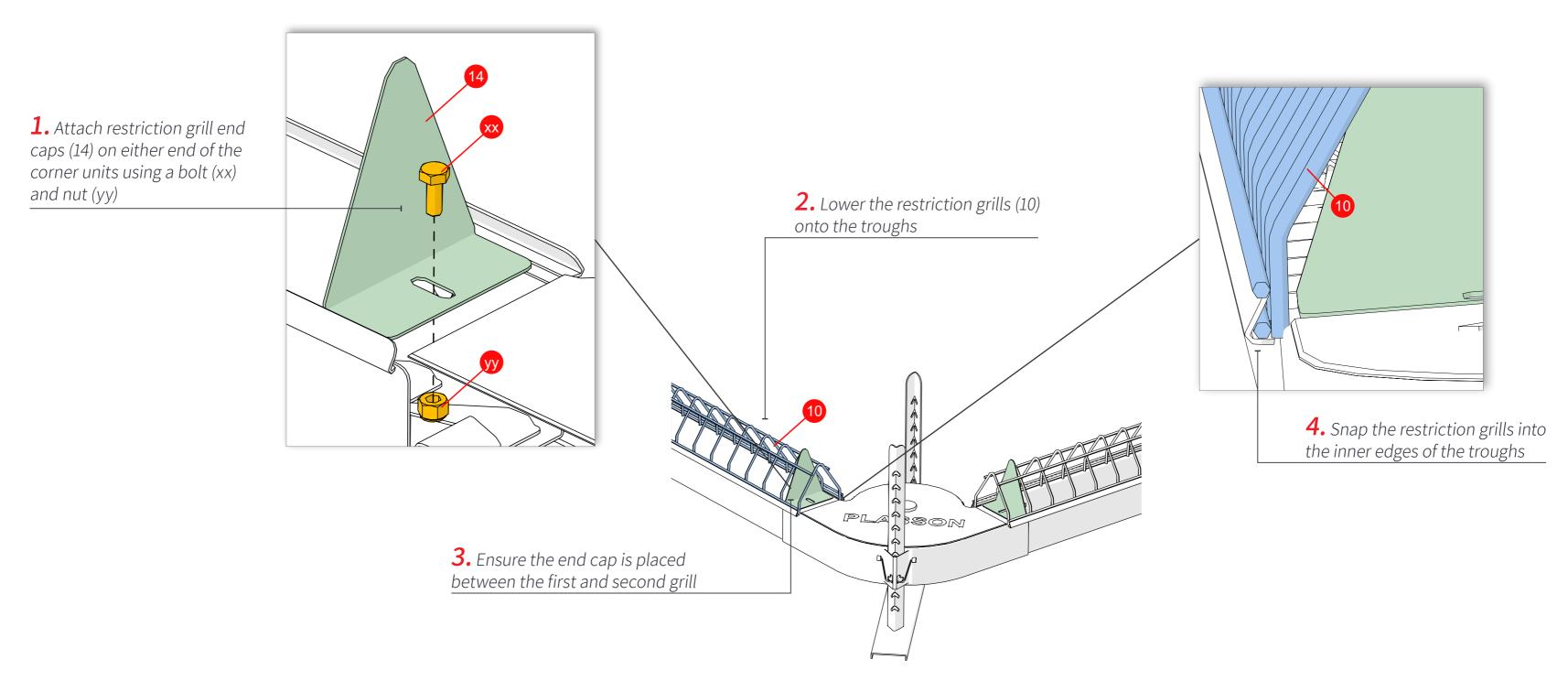








Step 12: Installing the Restriction Grills, Grill Covers, and End Caps







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Introduction

Installation

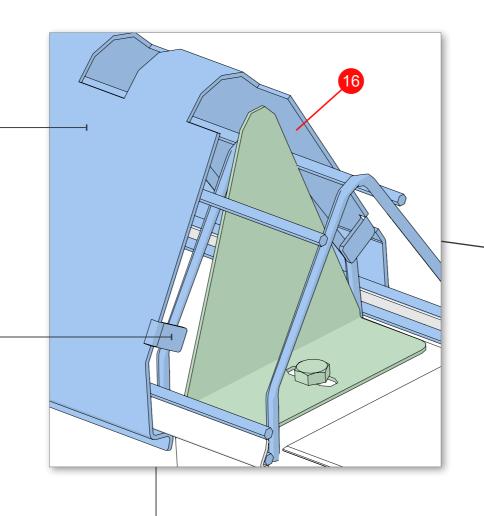
Maintenance

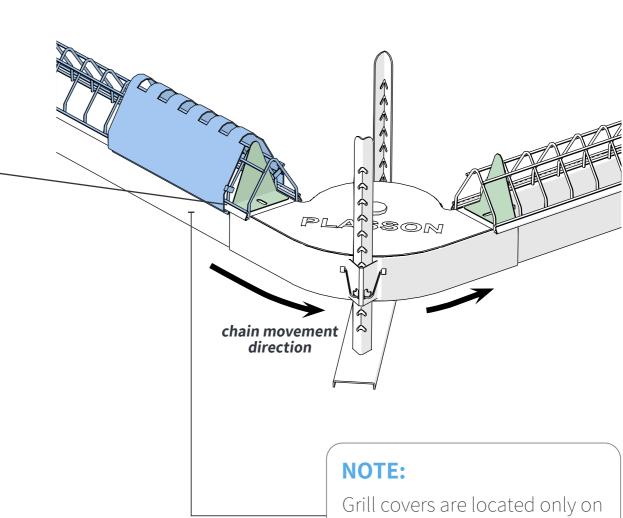
Troubleshooting



6. Ensure the stopper is between the first and second grills

7. Snap the restriction grill covers onto the outer edges of the troughs





the side of the corner unit from which the chain enters







Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

3.5 Power and Control Connections

This section describes the power and control connections and includes:

• Connecting the Chain Drive Unit





R.S.T.

Customer main switch in

the board

GND

<u>N</u>

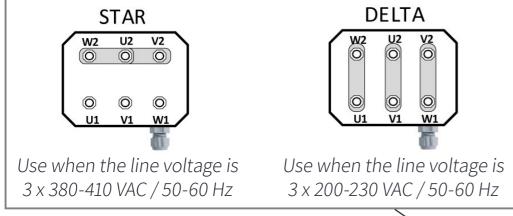
Command voltage circuit breaker

Connecting the Chain Drive Unit

1. Connect the facility power supply to the control cabinet

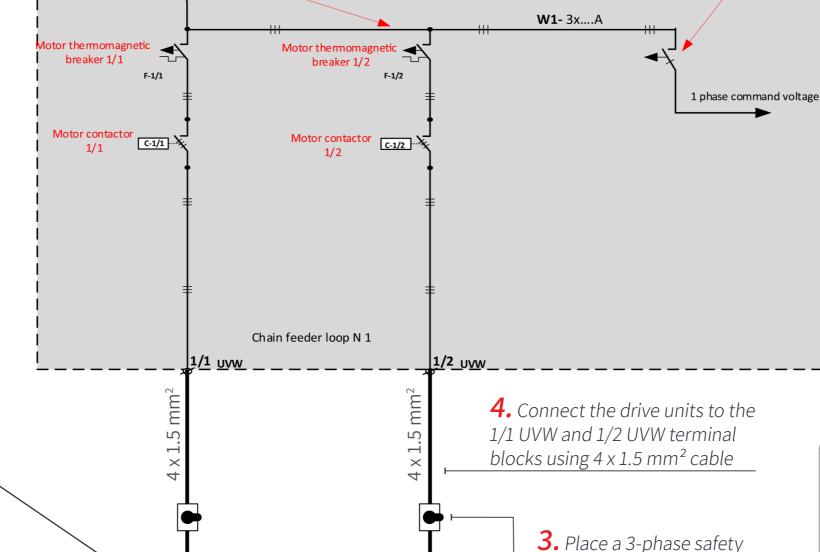
Facility power supply

2. Connect the drive unit(s) using either the STAR or DELTA connection system



NOTE:

Number of drive units depends on the chain feeding system layout (see Common Layouts)



Three-phase aggregation bars



Drive unit



Drive unit

switch between the motor

and control panel

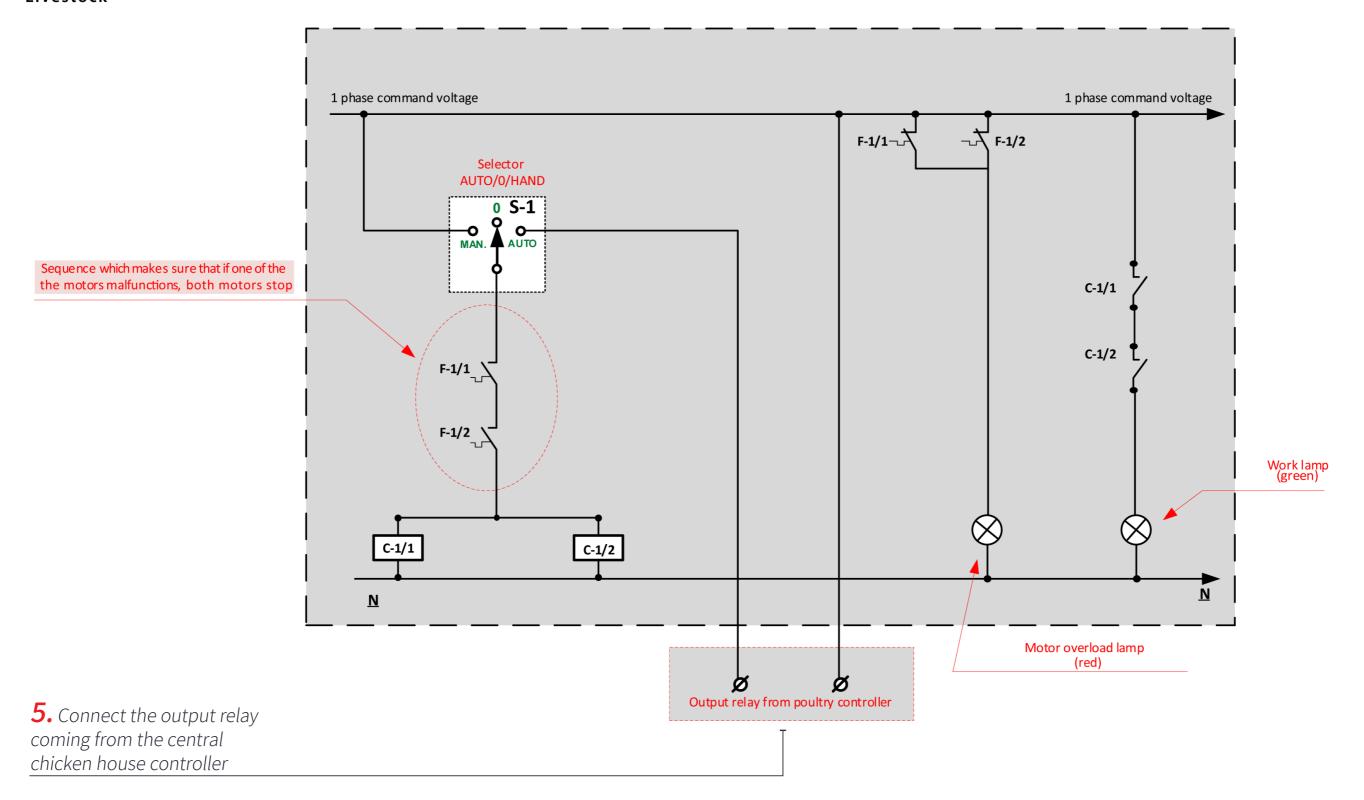
• The safety switch is not supplied

with the chain feeding system

It is recommended to install the

switch on the drive unit cover

NOTES:









Introduction

Installation

Maintenance

Troubleshooting

Technical Specifications

4. Maintenance

This chapter reviews the tasks associated with preventive maintenance of the system and includes:

• Checking Chain Tension



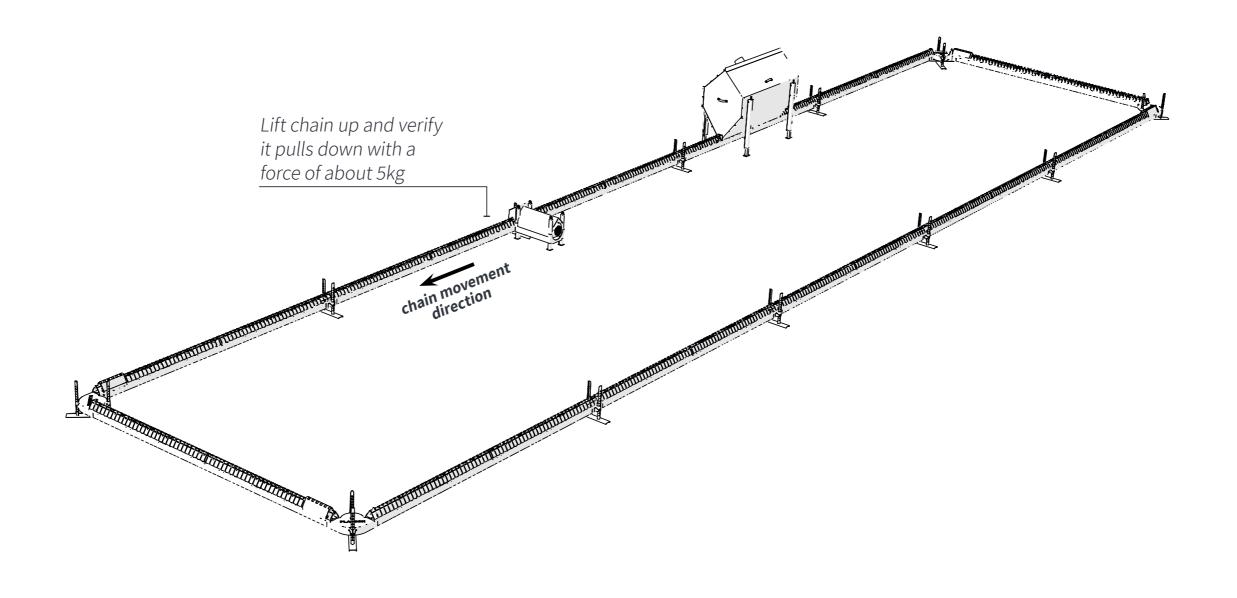


4.1 Checking Chain Tension

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Once a week, check chain tension at the point where the chain leaves the drive unit.







5. Troubleshooting

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This chapter reviews issues that may appear during operation of the system and suggests steps to resolve these issues.

Problem	Possible Cause	Solution
The motor is not working	Contactor or thermal relay have tripped	Replace or reset the contactor
	Wiring problem	Check all the wiring
	Motor is burned	Replace or repair the motor
The motor trips frequently	Thermal relay is not properly adjusted	Properly adjust the relay
	Trough is misaligned	Align the trough
	Foreign object in the line	Check all the lines
	Insufficient voltage	Contact the electrician to assess the power line
Gear overheating	Lack of lubrication	Fill the oil level
	No vent in the gear	Install a vent
	Conveyor chain excessively tensioned	Adjust chain tension
The chain does not turn, even when the motor is on	Shear pin is broken	Replace the shear pin





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Safety

Problem	Possible Cause	Solution	
Shear pin breaks frequently	Slack chain	Check the chain and tension it	
	The chain is getting stuck at some point in the line	Check all points of the system: troughs, couplers, corners, and hopper	
	Foreign objects in the line	Take care of the cleaning troughs	
	The line circuit is too long	Shorten the line	
	Drag coupling is far from the drive gear	Adjust the drag coupling close to the drive gear	
	Shear pin is not the correct diameter	Insert the correct diameter shear pin	
Damaged corner	System is misaligned and/or out of square	Align and/or square the system	
	Excess dirt (litter) inside the troughs	Use the cleaning trough and replace it in case it is broken	
Feed is building up in the hopper return or corners	Output regulator is excessively open	Adjust the output regulator on the hopper	
	Input wheel is obstructed or is not in contact with the chain	Check what is obstructing the input wheel and correct	







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6.1 Suspension System

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P/N	Part	Technical Specification
02341094	Motor (400 Nm)	7 RPM, 1 HP, 3-phase w/couplings, 1.25" w/fixing plate set
02341903	Motor (840 Nm)	7 RPM, 1.5 HP, 3-phase w/couplings, 1.25" w/fixing plate set
02341904	Motor (915 Nm)	7 RPM, 1.5 HP, 3-phase w/couplings, 220 V, 60 HZ, 1.25" COM
02312425	Slow lifting winch (up to 80 m)	450 Nm, 5.6 RPM, 3-phase, 220/380 V, 0.37 KW, COM
02312314	Slow lifting winch (up to 100 m)	450 Nm w/LS, 2.8 RPM, 3-phase, 220/380V, 0.37 KW, COM
02312426	Slow lifting winch (up to 120 m)	550 Nm, 3.7 RPM, 3-phase, 220/380V, 0.37 KW, 2P COM
02312315	Slow lifting winch (up to 140 m)	650 Nm w/LS, 2.0 RPM, 3-phase, 220/380 V, 0.37 KW, COM

6.2 Drive Unit

P/N	Technical Specification
02340639	1.5 HP, 3-phase, 36 m/min, 220/380 V, SET
02341095	1.5 HP, 3-phase, 18 m/min, 220/380 V, SET
02341112	1.5 HP, 3-phase, 36 m/min, 220 V, 60 HZ, SET





Revision History

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Revision	Date	Description	Approval
А	31/08/2020	Initial release	Shaul S.













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