veying. Stretch Wrapping, Case Handling, Shrink Packaging, Palletizing, Conveying, Stretch Wrapp





Installation Instructions C0013536 Pallet Grip® Q Series® Semi-Automatic Machines Manufacture Date before July, 2010



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1.0 Introduction

These instructions tell the operator and maintenance personnel how to safely install and operate the retrofit.

For support, use the phone and email data below:

Phone	Email	Fax
Parts		
+31 (0) 485 751 771	europarts@lantech.com	+31 (0) 485 330 755
Service		+31 (0) 485 550 755
+31 (0) 485 751 770	euroservice@lantech.com	
Phone	IC – MELBOURNE AUSTRALL Email	Fax
+61 3 9796 5275	aus.support@lantech.com	+61 3 9703 2725
LANTECH CHINA - SHA	ANGHAI	
Phone	Email	Fax
+86 21 6427 1962	LCH.Parts@Lantech.com	+86 21 6468 6478
Service Hotline +86 400 877 1972	LCH.Service@Lantech.com	+80 21 0408 0478
LANTECH NORTH & S	OUTH AMERICA – LOUISVILI	LE KENTUCKY
	Email	Fax
Phone		
	Parts	
Parts	Parts tsg@lantech.com	
Phone Parts 502-815-9101 Service		502-267-8864
Parts 502-815-9101	tsg@lantech.com	502-267-8864
Parts 502-815-9101 Service	tsg@lantech.com Service	502-267-8864

Note: Lantech is not responsible for non-approved changes to a machine. If the components on your machine are different from the drawings in this document, contact Lantech.

2.0 Safety

This manual tells the operator and maintenance personnel how to safely install and operate the machine. The section includes:

- General safety
- Personnel safety
- Safety & Environmental Controls
- Warnings, Cautions and Notes

General Safety

- Read the manual to install, operate, and repair the machine safely.
- Obey all safety labels.
- Obey all warnings to prevent an injury to personnel.
- Obey all cautions to prevent damage to the machine.
- Obey all Lockout/Tagout procedures before you change, adjust, and repair a part.
- Refer to the adjustment data to prevent a safety hazard.

Personnel Safety

- To prevent an injury and safety risk, do not install, operate, and repair the machine while influenced by drugs, alcohol, and medication.
- A part that moves can catch loose clothing, long hair, jewellery and cause injury to personnel.
- Data on Personal Protective Equipment (PPE) is in the Installation section of this manual.
- Refer to the Installation section for personnel and tools to safely install the machine.

Safety & Environmental Controls

- Make sure that you recycle all waste.
- Release all chemical waste to a certified Waste Processing Company only.
- To decommission the machine, the owner of the machine and all auxiliary equipment, must:
 - Obey applicable environmental regulations and discard electrical components safely.
 - Obey all applicable environmental, plant, and industrial safety regulations.

This applies to local, regional, and federal controls, and includes all OSHA and CE regulations.

Lockout/Tagout

Obey these procedures to prevent an injury from unexpected energizing, start-up, release of stored energy.

This applies to local, regional, and federal controls, and includes the current controls for:

- Australia OSHA Prevention of Unexpected Startup
- Europe CE Machinery Directive Isolation of Energy Sources
- USA OSHA Control of Hazardous Energy

Warnings, Cautions, and Notes

Warning – Tells the operator that there is a hazard that can cause a serious injury.

Caution – Tells the operator that there is a hazard that can cause:

- A minor injury
- Damage to the equipment, environment.

Note – Gives additional data to help the operator.

3.0 General Data

This is an option for the Q300 and Q300XT.

The Pallet Grip locks the load to the pallet. As the FDS lowers, the Pallet Grip® engages and makes a cable of film. This cable attaches below the top boards of the pallet to lock the load to the pallet.

Note: The Pallet Grip® option decreases the wrap diameter of the turntable approximately 5".



CAUTION If the diameter of the load is larger than the wrap diameter, damage to the Pallet Grip® will occur.

3.1 Warranty

The warranty on Retrofits is 1 Year.

3.2 Sequence of Operation

The sequence of operation starts with a load on the turntable.

3.2.1 Q300

- 1. Push the "Film Assist" button.
- 2. Pull the film and attach it to the load.
- 3. Push the "Start" button.
- 4. The turntable turns and the FDS moves up. The speed of the FDS is set on the operator control panel.
- 5. The film pre-stretches and is applied to the load.
- 6. The load height sensor senses the top of the load and the FDS stops to apply the top wrap.
- 7. The FDS lowers to wrap the bottom of the load.
- 8. The Pallet Grip® engages and makes a cable of film on the bottom edge of the film.
- 9. The pivoting roller engages and attaches the film cable to the pallet.
- 10. If the machine has Auto Film Cut-offTM:
 - On the last revolution of the bottom wraps, the Auto Film Cut-offTM engages then the pre-stretch motor stops.
- 11. When the turntable stops at the home position, the FDS raises and disengages the Pallet Grip®.
- 12. If the machine does not have the Auto Film Cut-offTM, the operator cuts the film.
- 13. The operator removes the load from the turntable.

3.2.2 Q300XT

- 1. Push the "Film Assist" button.
- 2. Pull the film and attach it to the load.
- 3. Push the "Start" button.
- 4. The turntable turns and the FDS moves up. The speed of the FDS is set on the operator control panel.
- 5. The film pre-stretches and is applied to the load.
- 6. The load height sensor senses the top of the load and the FDS stops to apply the top wrap.
- 7. The FDS lowers to wrap the bottom of the load.
- 8. The Pallet Grip® engages and makes a cable of film on the bottom edge of the film.
- 9. The pivoting roller engages and attaches the film cable to the pallet.
- 10. On the last revolution of the bottom wraps, the XT unit engages to clamp and cut the film.
- 11. At the end of the wrap cycle, the FDS raises and disengages the Pallet Grip®.
- 12. The operator removes the load from the turntable.

4.0 Installation Instructions

Read the Installation section and do the steps in sequence

Note: Illustrations are for reference only.



WARNING

Obey all safety decal instructions and warnings.



WARNING

Obey all Lockout/Tagout procedures before you change, adjust, repair a part.

4.1 Personnel, Equipment and Tools

Personnel

- 1 Electrical/Mechanical Technician
- 1 Forklift Operator

Equipment

• 1 Forklift with 2000 kg (4400 lbs) capacity and minimum 5 m (15') Lift

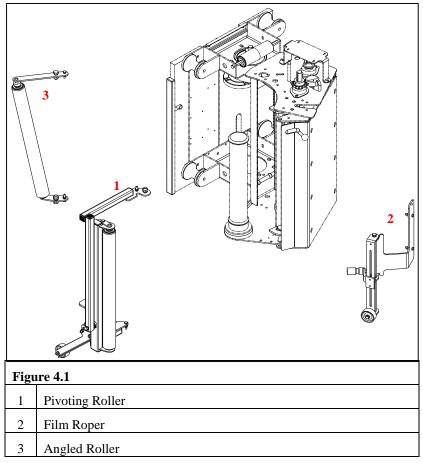
Tools

- Metric and Standard Wrenches and Sockets
- Allen wrenches
- Drill with a 9/32" Bit
- Torque Wrench

Metric Fastener Torque Chart			
Fasteners	Class	Torque	
6 mm	8.8	14 N-m (10 lb-ft)	
8 mm	8.8	24 N-m (18 lb-ft)	
10 mm	8.8	47 N-m (35 lb-ft)	
12 mm	10.9	102 N-m (75 lb-ft)	



4.2 Components



Angled Roller – moves the film down and helps to align the edge of the film on the groove roller.

The roller attaches to the gate.

Film Roper – is adjustable to increase, decrease the quantity of film that makes the cable.

The roper attaches to the gate.

Pivoting Roller – engages when the roller touches the base.

The roller moves the film cable down on the pallet.

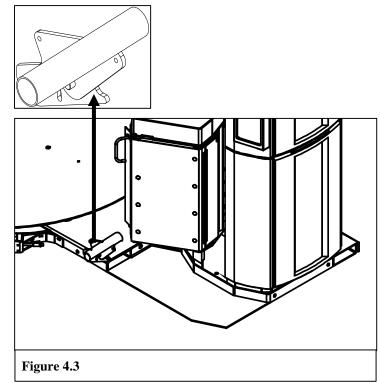
The actuator is adjustable to increase, decrease the angle of the roller.



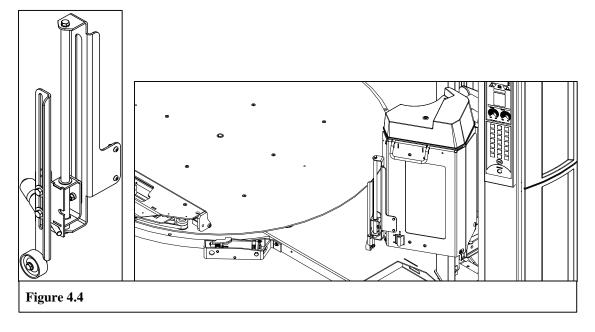
4.3 Components to Remove

The installation includes the removal of the components in the list below.

- The last idler roller on the gate
- The Film roper
- 1. Move the actuator forward to release the film from the XT clamp.
- 2. Raise the FDS 457 mm 610 mm (18"- 24") above the floor.
- 3. Disconnect the power to the machine.
- 4. If the machine is a Q300XT, remove the roper. The roper has 2 mount positions:
 - a. Remove the fasteners that attach the roper to the base of the machine.



b. Remove the fasteners that attach the roper to the FDS.



- 5. Open the gate of the FDS.
- 6. Remove the film from the FDS.
- 7. Remove the FDS cover.

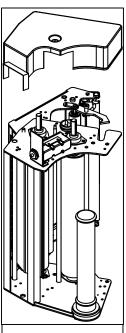


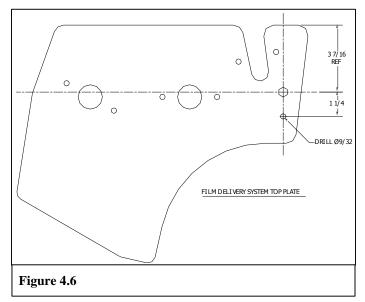
Figure 4.5

4.4 Installation

1. If the machine was built before January 2005, you must make changes to the frame of the Film Delivery System.

If the manufacture date is after January 2005, go to Step 2.

- a. Refer to the drawings.
- b. Make 1 hole in the top plate of the FDS
- c. Make 2 holes in the bottom plate of the FDS.



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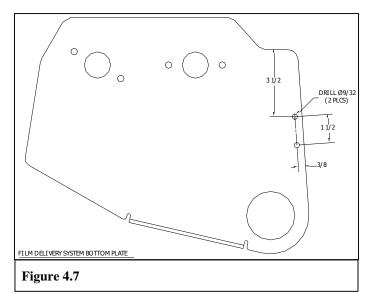
- d. Use the dimensions on the drawing to find the positions for the holes in the plates of the FDS.
- e. Put a cover on the components in the FDS to keep debris away from them.
- f. Remove the debris.
- $2. \ \ Install \ the \ Pallet \ Grip (B \ to \ the \ FDS. \\$

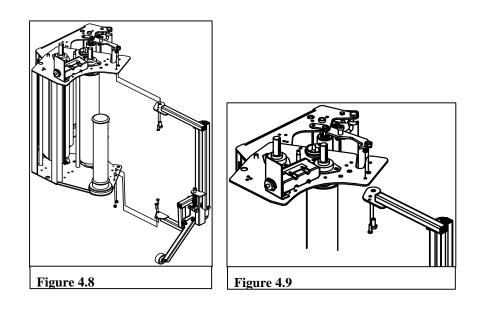
Refer to the drawing.

- a. Align the holes on the Pivoting Roller to the holes on the FDS frame.
- b. Attach the top frame of the Pivoting Roller to the bottom of the FDS top plate.

Refer to the drawing.

c. Tighten the bolts by hand.

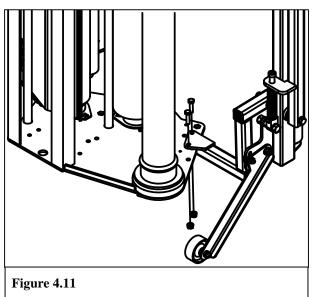








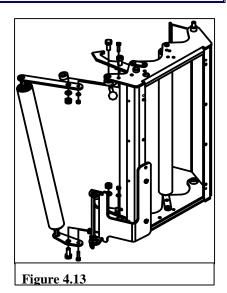
- Attach the lower frame of the Pivoting Roller to the bottom of the FDS bottom plate.
 Refer to the drawing.
- e. Tighten the bolts by hand.
- f. Refer to the chart on page 8 and torque the bolts.



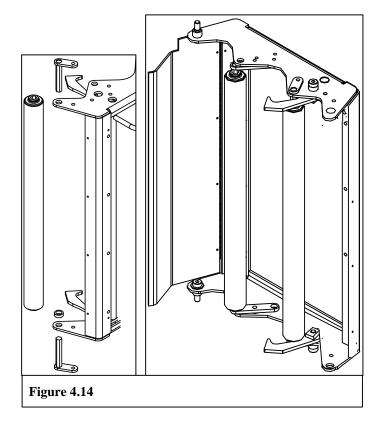


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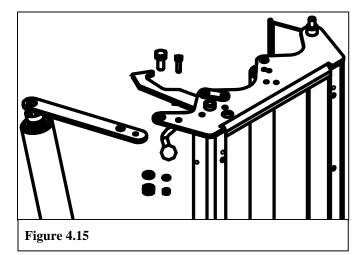
 Install the Angled Roller to the FDS gate. Refer to the drawing.



- 4. Remove the last film idler roller on the gate to install the Angled Roller.
 - a. Remove the support from the roller and the FDS frame.
 - b. Remove the roller from the bottom roller support.
 - c. Remove the support.

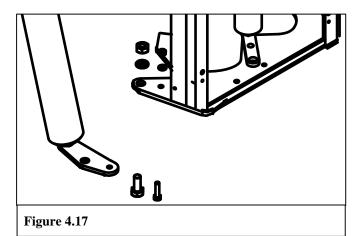


- 5. Align the top mount of the Angled Roller to the bottom of the top plate of the gate frame.
- 6. Attach the top mount to the gate.
- 7. Tighten the fasteners by hand.



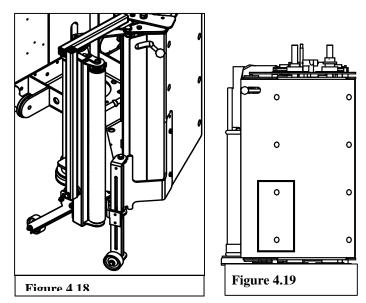


- 8. Align the lower mount of the Angled Roller to the top of the bottom plate of the FDS gate.
 - a. Attach the bottom mount to the gate.
 - b. Tighten the fasteners by hand.
- 9. Refer to the chart on page 8 and torque the bolts





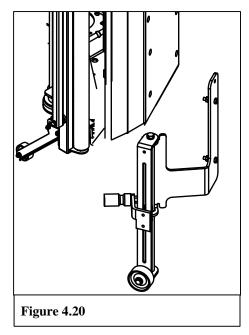
- 10. Install the Film Roper to the front of the FDS gate.
 - a. Remove the bottom 2 fasteners that hold the Lexan guard to the left side of the gate frame.



b. Align the holes in the frame of the Groove Roller to the holes in the gate and attach.

Note: The position of the groove roller on the film roper controls the quantity of film that makes the cable.

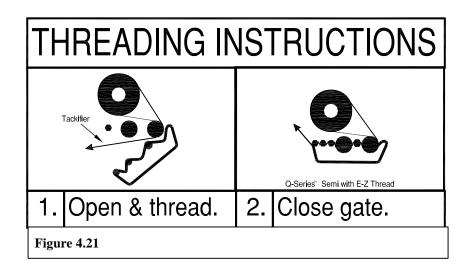
- c. Attach the FDS cover.
- d. Refer to the drawing and put the labels for the Pallet Grip® on the machine.



11. Thread the film. Make sure that the film roll is in the correct position. Refer to the illustration below.



WARNING Obey all safety decal instructions and warnings.



- 12. Apply the power to the machine.
- 13. Reset the E-stop.
- 14. Lower the FDS to engage the Pallet Grip®.
- 15. Loosen the bolts to adjust the position of the Pivoting Roller.

Make sure that it is at a 62° angle from the floor.



- 16. Adjust the height of the groove roller on the Film Roper.
 - For a standard pallet, the top of the guide roller is 203 mm (8") from the floor.
 - The position of the film cable is $25 \text{ mm} 38 \text{ mm} (1'' 1 \frac{1}{2})$ below the top boards of a pallet.
 - a. Loosen the 2 bolts on the film guide to adjust the roller.
- 17. Put a load on the turntable.
- 18. Attach the film to the load.
- 19. Start the wrap cycle.
- 20. Make sure that the Pallet Grip® operates correctly. (Refer to Section 3.2 for the correct sequence of operation.)
- 21. Adjust for the correct film cable.
- 22. Adjust the FDS Up, Down speed potentiometer for the correct wrap.



5.1 Daily and Weekly Maintenance

- Remove the debris from in and around the Pallet Grip®.
- Make sure that the pivoting roller moves freely and retracts fully.
- Examine the groove roller and make sure that it turns freely.
- Make sure that the film moves through the groove in the roller as the load wraps.



Figure 4.23

5.2 Pallet Grip® Adjustments

5.2.1 Pivoting Roller

	Factory Setting	Installed Setting	Alternative Setting	Notes
The pivoting roller and the groove roller set the height of the film cable on the pallet.	62°			

- 1. Adjust the actuator to increase, decrease the angle of the roller when it is engaged.
- 2. Increase the movement of the roller to lower the position of the cable on the pallet. The standard adjustment for the roller is 62° from floor level.
- 3. Loosen the bolts to adjust.





5.2.2 Film Roper - Groove Roller

Adjust the groove roller on the Film Roper to increase, decrease the quantity of the film to make the cable.

To adjust:

- 1. Fully engage the pivoting roller and loosen the 2 bolts on the film guide
- 2. Adjust the roller.

The standard adjustment for a standard height 127 mm (5") pallet:

• 203 mm (8") from the floor to the top of the groove in the guide roller.





6.0 Troubleshooting

6.1 Pallet Grip® - Q300

	Problem	Possible Cause	Solution
1	The film cable does not	The FDS does not lower correctly to wrap the pallet.	Lower the FDS "Down Travel" proximity sensor.
	catch the 4 corners of the pallet.	The groove roller is set too high for the height of the pallet	Adjust the height of the groove roller. Make sure that the film cable wraps the top $25 - 38 \text{ mm} (1"-1 \frac{1}{2}")$ of the pallet.
		The FDS does not lower correctly to wrap the pallet.	Lower the FDS "Down Travel" proximity sensor.
		The groove roller is set too low for the height of the pallet.	Adjust the height of the groove roller. Make sure that the film cable wraps the top $25 - 38 \text{ mm} (1"-1 \frac{1}{2}")$ of the pallet.
			Lower the FDS to fully engage the roller.
2	The film cable did not form correctly.	The pivoting roller does not move correctly to make the film cable. Note: The standard setting is 62° from floor level.	Adjust the angle of the roller.
		The "Wrap Force" is set too low. A slack film does not make a tight cable of film.	Increase the "Wrap Force" setting at the control panel. Note: Machines without PRS Plus (Load Cell) – Increase the "Reduced Tension" settings on PRS Drive board (SCR-3).



		The AFC device is out of adjustment.	Adjust the position of the AFC.
	Machines with Auto Film Cut-off [™] (AFC):	The Auto Film Cut-off [™] is "Off" (Configuration Bit C-14).	Make sure that the Configuration Bit C-14 is on.
3	The film does not cut at the end of the wrap cycle.	The Preset timer (P.4) is set too low (Time To Run Roll Carriage Up At End Of Wrap Cycle). If the film cable stays at the bottom of the film, the film does not cut correctly.	Adjust the Preset timer P.4 Make sure that the FDS lifts and disengages the groove roller.



6.2 Pallet Grip® - Q300XT

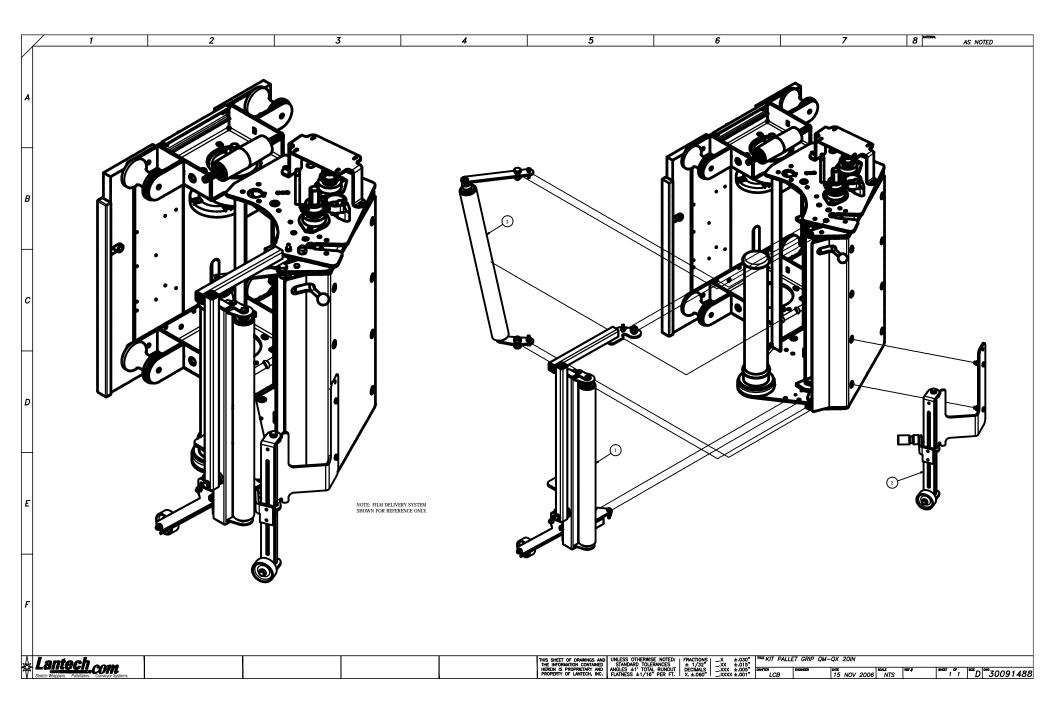
	Problem	Possible Cause	Solution
	The film cable does not	The FDS does not lower correctly to wrap the pallet.	Lower the FDS "Down Travel" proximity sensor.
4	catch the 4 corners of the pallet.	The groove roller is set too high for the height of the pallet	Adjust the height of the groove roller.
			Make sure that the film cable wraps the top $25 - 38 \text{ mm} (1"-1 \frac{1}{2}")$ of the pallet.
		The FDS does not lower correctly to wrap the pallet.	Lower the FDS "Down Travel" proximity sensor.
		The groove roller is set too low for the height of the pallet.	Adjust the height of the groove roller. Make sure that the film cable wraps the top $25 - 38 \text{ mm} (1"-1 \frac{1}{2}")$ of the pallet.
			Lower the FDS to fully engage the roller.
			Adjust the angle of the roller.
5	The film cable did not form correctly.	The pivoting roller does not move correctly to make the film cable. Note: The standard setting is 62° from floor level.	62° Angle
		The "Wrap Force" is set too low. A slack film does not make a tight cable of film.	Increase the "Wrap Force" setting at the control panel. Note: Machines without PRS Plus (Load Cell) – Increase the "Reduced Tension" settings on PRS Drive board (SCR-3).

Item Number:Serial Number:31041704Part Description:RETROFIT PALLET GRIP FOR A Q-SEMI 20 INCH CARRIAGE

ltem	Part#	Description	Qty
000001	30091488	KIT PALLET GRIP QM-QX 20IN	1.00000
000003	31016411	RETROFIT KIT PALLET GRIP	1.00000
		HARDWARE	
000004	31074715	ILLUSTRATION PALLET GRIP	1.00000
		MOUNTING HOLE LOCATIONS Q-SEMI	

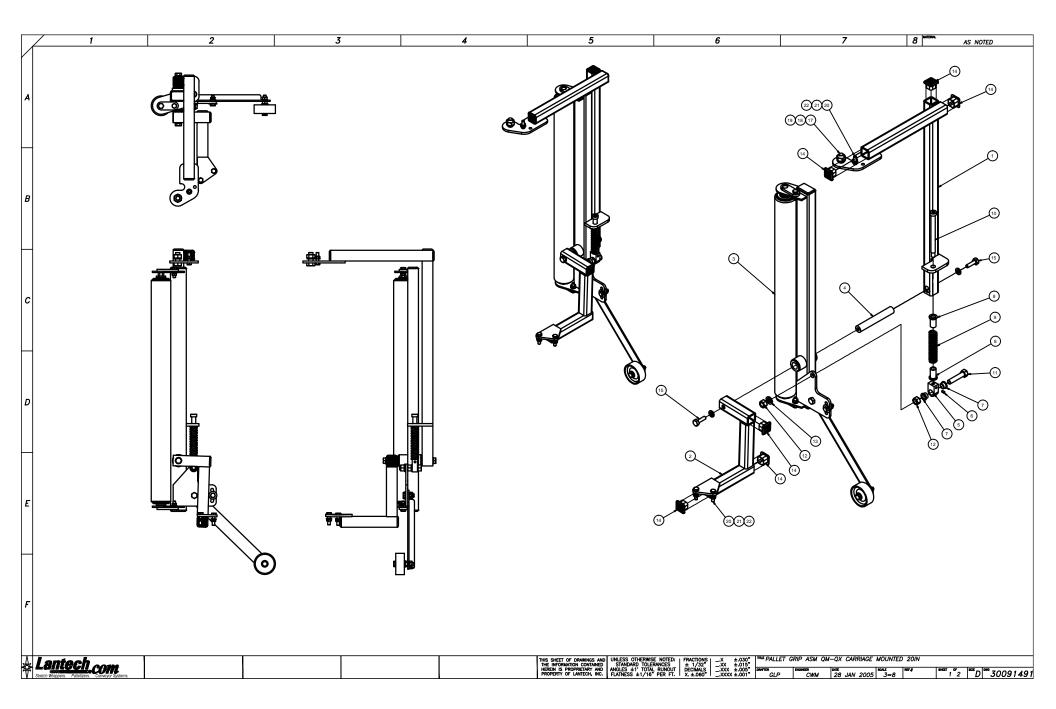
Item Number:000001Part Number:30091488Part Description:KIT PALLET GRIP QM-QX 20IN

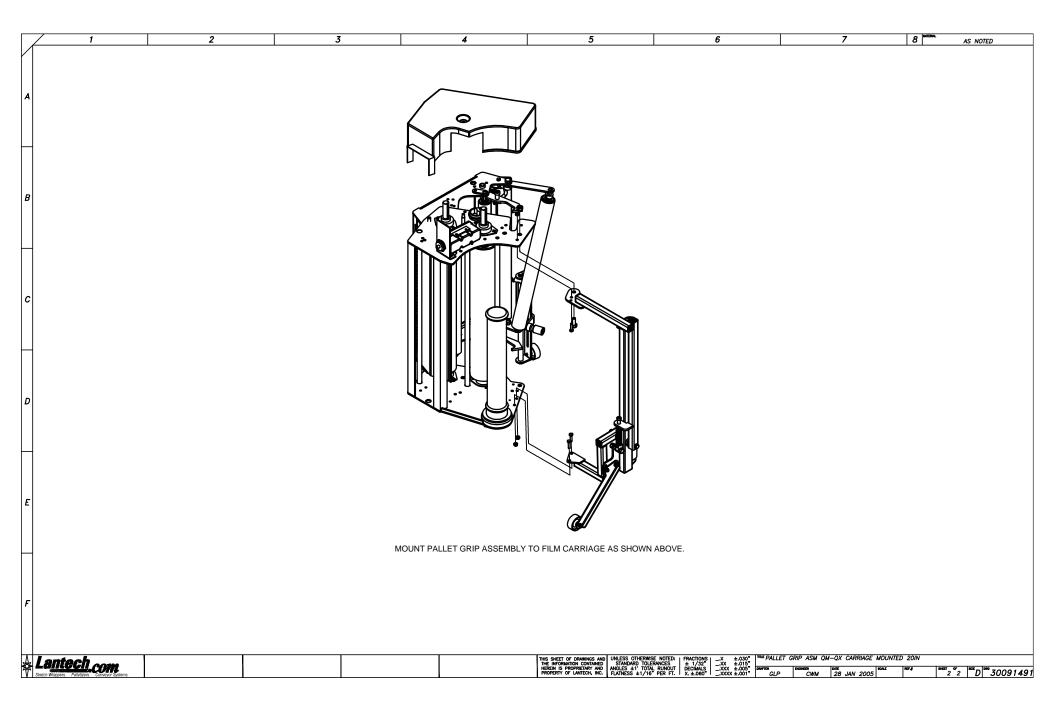
ltem	Part#	Description	Qty
000001	30091491	PALLET GRIP ASM QM-QX CARRIAGE	1.00000
		MOUNTED 20IN	
000002	30091492	ROPER ASM FOR QM-QX WITH	1.00000
		PALLET GRIP	
000003	30091495	ROLLER ANGLED GATE MOUNTED	1.00000
		ASM 20IN QM PALLET GRIP	
000004	31049718	LABEL KIT INSTALLATION PALLET-	1.00000
		GRIP Q-SERIES	



Item Number:000001.000001Part Number:30091491Part Description:PALLET GRIP ASM QM-QX CARRIAGE MOUNTED 20IN

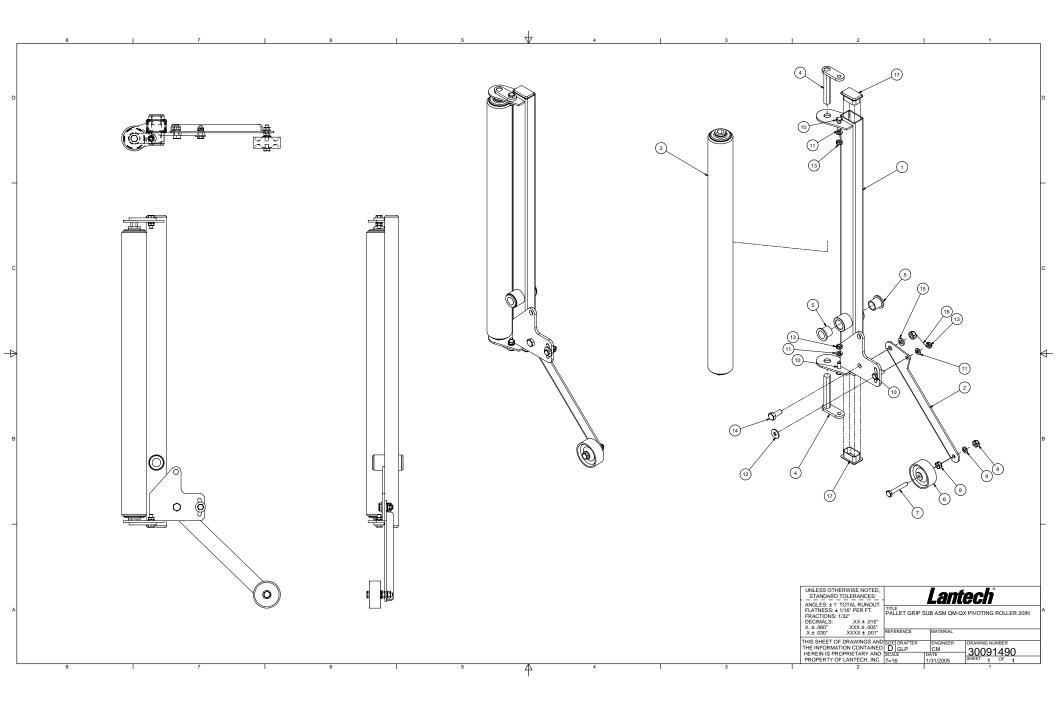
Item	Part#	Description	Qty
000001	30090085	PALLET GRIP UPPER FRAME 20FDS	1.00000
000002	30145157	PALLET GRIP LOWER FRAME W/HRS	1.00000
		BAR	
000003	30091490	PALLET GRIP SUB ASM QM-QX	1.00000
		PIVOTING ROLLER 20IN	
000004	30090088	SHAFT ROLLER PIVOT	1.00000
000005	30031745	PLATE BLOCK CLEVIS	1.00000
000006	30031750	FASTENER SETSCREW #10-32 X 1/4	1.00000
		CUP	
000007	C-006329	BUSHING FLANGE 0.377 ID X .502 OD	2.00000
		X 5/16 LONG X 5/8 FLANGE OD X 1/16	
		FLANGE THICKNESS	
800000	30019103	BUSHING FLANGED 3/8 ID X 1/2 OD X 1	2.00000
000009	31026333	SPRING COMPRESSION MUSIC WIRE	1.00000
		65.50LB/IN .105IN WIRE DIA 3.000IN X	
	_	.720 OD	
000010	P-012414	FASTENER SCREW SHOULDER 3/8	1.00000
		DIA X 4 W/ 5/16-18 SOCKET HEAD	
000011	31025302	FASTENER BOLT 3/8-16 X 1 3/4 HHCS	1.00000
		GRADE 8	
000012	S-007438	FASTENER NUT HEX 3/8-16 GRADE 8	2.00000
000013	S-005114	WASHER LOCK 3/8	1.00000
000014	30096230	PLUG PLASTIC 1IN SQ TUBING	6.00000
		RIBBED (FITS .719 TO .844 ID SQ	
000045	D CUIDOOS	TUBING) PKG OF 100	0.00000
000015	P-SH0825	FASTENER BOLT M8X1.25 X 25MM	2.00000
		HEX HEAD CAP ZINC PLATED STEEL CLASS 8.8	
000016	P-WS0800	WASHER SPRING LOCK M8 STEEL	2.00000
000018	P-W30800 P-SH1025	FASTENER BOLT M10X1.5 X 25MM	1.00000
000017	F-301025	HEX HEAD CLASS 8.8 ZINC PLATED	1.00000
000018	P-WS1000	WASHER SPRING LOCK M10 STEEL	1.00000
000018	P-NH1000	FASTENER NUT HEX M10X1.5 CLASS	1.00000
000019		8.8 ZINC PLATED	1.00000
000020	P-SH0625	FASTENER BOLT M6X1.0 X 25MM HEX	3.00000
000020	1-3110023	HEAD CLASS 8.8 ZINC PLATED	5.00000
000021	P-WS0600	WASHER SPRING LOCK M6 STEEL	3.00000
000021	P-NH0600	FASTENER NUT HEX M6X1.0 CLASS 8	3.00000
000022		ZINC PLATED STEEL	5.00000
L			





Item Number:000001.000003Part Number:30091490Part Description:PALLET GRIP SUB ASM QM-QX PIVOTING ROLLER 20IN

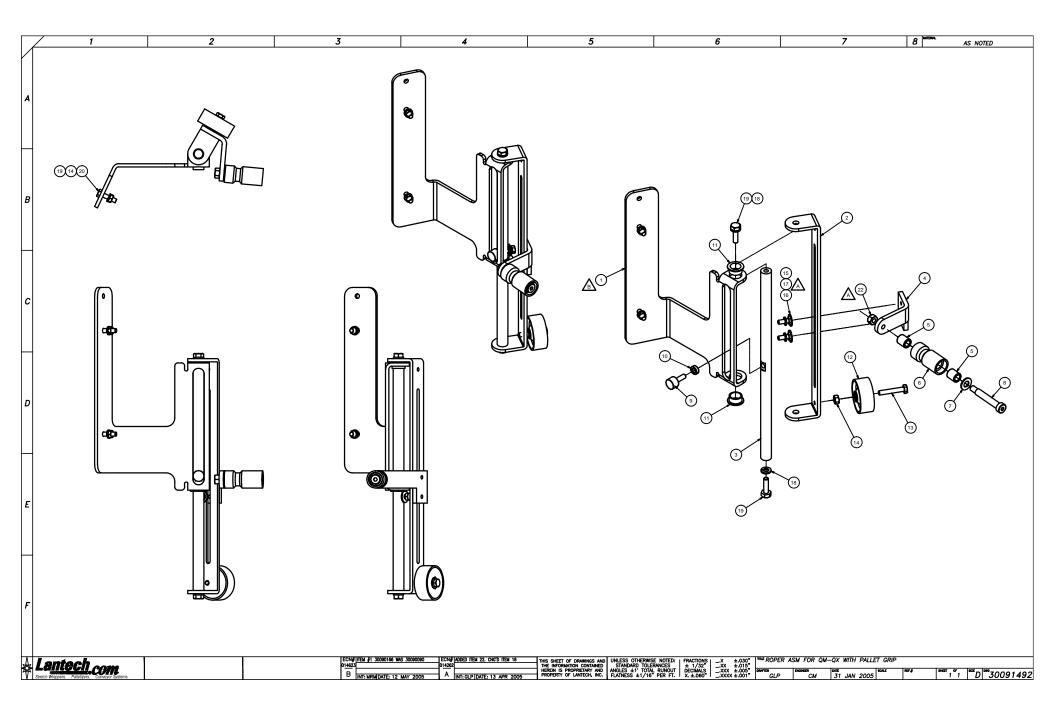
ltem	Part#	Description	Qty
000001	30090075	PALLET GRIP ADJUSTABLE ROLLER	1.00000
		FRAME 20 FDS	
000002	30090093	ARM PALLET GRIP LEVER	1.00000
000003	30181452	ROLLER IDLER ASM 1-27/32 OD X 21-	1.00000
		11/16 COATED 20IN FDS	
000004	40402240	SUPPORT FAB FDS IDLER ROLLER	2.00000
000005	30091445	BUSHING FLANGE 5/8 ID X 3/4 OD X	2.00000
		3/4 LG X 1 FLANGE OD X 3/32 FLANGE	
		THICKNESS	
000006	30029749	WHEEL 2 OD X 0.25 ID (PLAIN BORE)	1.00000
		POLYOLEFIN	
000007	S-006047	FASTENER BOLT 1/4-20 X 1-3/4 HEX	1.00000
		HEAD GRADE 5	
800000	S-007436	FASTENER NUT HEX 1/4-20 GRADE 8	2.00000
		ZINC DICHROMATE PLATED	
000009	S-007116	WASHER LOCK 1/4	1.00000
000010	30029802	FASTENER BOLT M6X1.0 X 20MM HEX	3.00000
		HEAD CLASS 8.8 ZINC PLATED	
000011	P-WS0600	WASHER SPRING LOCK M6 STEEL	3.00000
000012	P-WF0600	WASHER FLAT M6 HARDENED STEEL	1.00000
		NARROW SERIES (13MM) ZINC	
		PLATED	
000013	P-NH0600	FASTENER NUT HEX M6X1.0 CLASS 8	3.00000
		ZINC PLATED STEEL	
000014	31011238	FASTENER BOLT M8X1.25 X 20MM	1.00000
		HEX HEAD CAP CLASS 8.8 ZINC	
		PLATED STEEL	
000015	P-WS0800	WASHER SPRING LOCK M8 STEEL	1.00000
000016	P-NH0800	FASTENER NUT HEX M8X1.25 ZINC	1.00000
		PLATED STEEL	
000017	30096265	PLUG PLASTIC 1 X 1-1/2 TUBING (FITS	2.00000
		.884925 X 1.344 - 1.425) RIBBED	



Item Number:000001.000002Part Number:30091492Part Description:ROPER ASM FOR QM-QX WITH PALLET GRIP

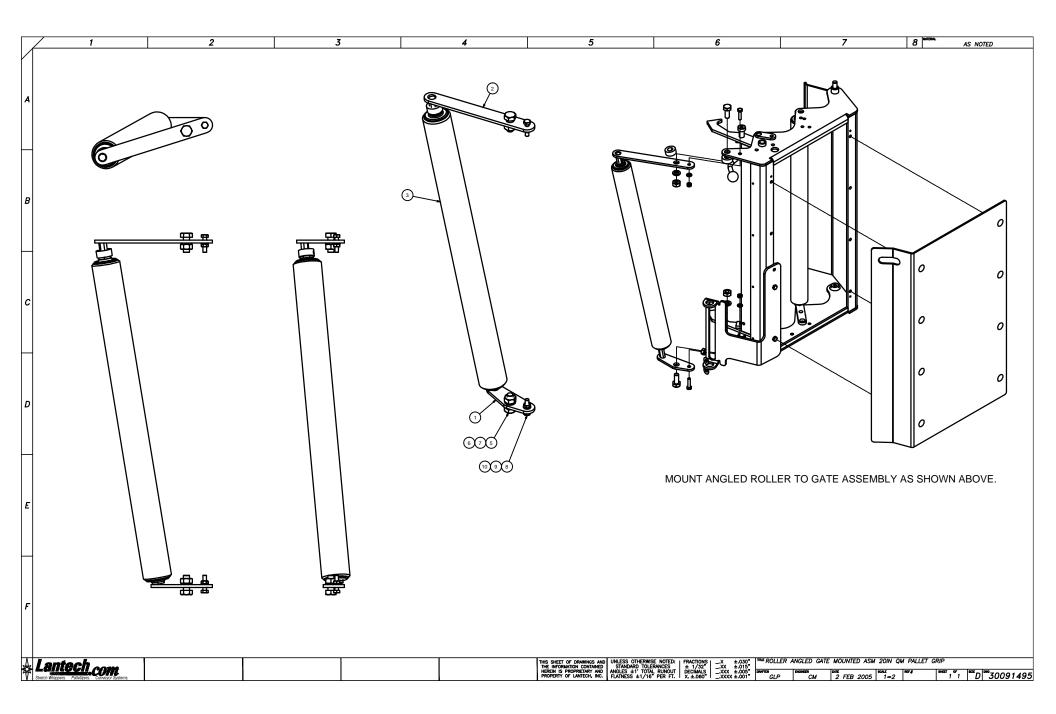
ltem	Part#	Description	Qty
000001	30090166	MOUNT FORMED ROPER SLIDE SHAFT	1.00000
000002	30072458	PLATE FORMED QM-XT ADJUSTMENT BAR	1.00000
000003	30075566	SHAFT GUIDE TAPPED QM-XT ROPER	1.00000
000004	30090072	MOUNT FORMED ROPER ROLLER	1.00000
000005	30029748	BEARING 0.375 ID X 0.563 OD X 0.625 LG NEEDLE	2.00000
000006	30090078	ROLLER ROPER NYLON	1.00000
000007	S-007054	WASHER THRUST 3/8 ID X 3/4 OD X 1/16 THICK	1.00000
000008	30018421	FASTENER SCREW SHOULDER 3/8 DIA X 2 SOCKET HEAD	1.00000
000009	30029763	CAM FOLLOWER 0.625 OD 1/4-28 STUD	1.00000
000010	30029767	SPACER 0.500 OD X 0.1875 LG. FOR 0.250	1.00000
000011	30000282	BUSHING FLANGE 5/8 IN ID X 3/4 IN OD X 3/8 IN LG X 15/16 IN FLANGE OD X 1/16 IN FLANGE THICKNESS STEEL	2.00000
000012	30029749	WHEEL 2 OD X 0.25 ID (PLAIN BORE) POLYOLEFIN	1.00000
000013	S-005133	FASTENER BOLT 1/4-20 X 1-1/2 HEX HEAD GRADE 5 ZINC DICHROMATE PLATED	1.00000
000014	S-007436	FASTENER NUT HEX 1/4-20 GRADE 8 ZINC DICHROMATE PLATED	1.00000
000015	P-WS0600	WASHER SPRING LOCK M6 STEEL	4.00000
000016	30040493	WASHER FENDER M6 DIN 9021 HARDENED STEEL ZINC PLATED	2.00000
000017	P-SH0616	FASTENER BOLT M6X1 X 16MM HEX HEAD CAP CLASS 8.8 ZINC PLATED STEEL	2.00000
000018	P-WS0800	WASHER SPRING LOCK M8 STEEL	2.00000
000019	P-SH0825	FASTENER BOLT M8X1.25 X 25MM HEX HEAD CAP ZINC PLATED STEEL CLASS 8.8	2.00000
000020	P-NH0600	FASTENER NUT HEX M6X1.0 CLASS 8 ZINC PLATED STEEL	2.00000

Item	Part#	Description	Qty
000021	P-SH0625	FASTENER BOLT M6X1.0 X 25MM HEX	2.00000
		HEAD CLASS 8.8 ZINC PLATED	
000022	S-005515	FASTENER NUT HEX 5/16-18 GRADE 8	1.00000
		ZINC PLATED	



Item Number:000001.000003Part Number:30091495Part Description:ROLLER ANGLED GATE MOUNTED ASM 20IN QM PALLET GRIP

ltem	Part#	Description	Qty
000001	30090096	MOUNT FAB ROLLER IDLER PIN	1.00000
		PALLET GRIP BOTTOM	
000002	30090094	MOUNT FAB ROLLER IDLER PIN	1.00000
		PALLET GRIP TOP	
000003	30181452	ROLLER IDLER ASM 1-27/32 OD X 21-	1.00000
		11/16 COATED 20IN FDS	
000004	P-000145	COLLAR SHAFT 1/2IN ONE PIECE	1.00000
		SOLID ZINC PLATED 1 SET SCREW	
000005	P-SH1025	FASTENER BOLT M10X1.5 X 25MM	2.00000
		HEX HEAD CLASS 8.8 ZINC PLATED	
000006	P-WS1000	WASHER SPRING LOCK M10 STEEL	2.00000
000007	P-NH1000	FASTENER NUT HEX M10X1.5 CLASS	2.00000
		8.8 ZINC PLATED	
000008	P-SH0625	FASTENER BOLT M6X1.0 X 25MM HEX	2.00000
		HEAD CLASS 8.8 ZINC PLATED	
000009	P-WS0600	WASHER SPRING LOCK M6 STEEL	2.00000
000010	P-NH0600	FASTENER NUT HEX M6X1.0 CLASS 8	2.00000
		ZINC PLATED STEEL	

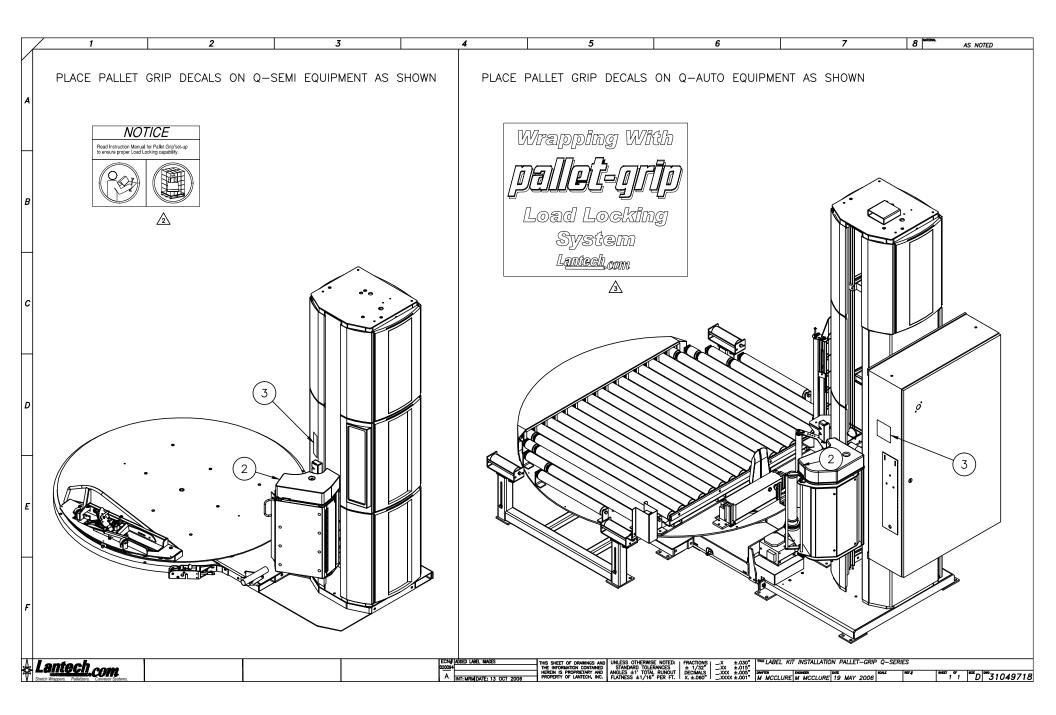


Item Number:000001.000003.000003Part Number:30181452Part Description:ROLLER IDLER ASM 1-27/32 OD X 21-11/16 COATED 20IN FDS

ltem	Part#	Description	Qty
000001	40402298	ROLLER IDLER TUBE 1-27/32 OD X 21	1.00000
		OPEN CELL COATED	
000002	30189250	BEARING INSERT ROLLER 7/16 HEX	2.00000
		BORE STEEL HOUSING CB14 CONV	
		WITH OD 1.456-1.457 INCHES	
000003	30182033	ILLUSTRATION ASSEMBLY ROLLERS	1.00000

Item Number:000001.000004Part Number:31049718Part Description:LABEL KIT INSTALLATION PALLET-GRIP Q-SERIES

ltem	Part#	Description	Qty
000002	31048207	LABEL NOTICE 'READ INSTRUCTION	1.00000
		MANUAL FOR PALLET GRIP SET-UP	
000003	31040293	LABEL MARKETING 'PALLET-GRIP'	1.00000



Item Number:000003Part Number:31016411Part Description:RETROFIT KIT PALLET GRIP HARDWARE

ltem	Part#	Description	Qty
000001	P-SH0630	FASTENER BOLT M6X1.0 X 30MM HEX	1.00000
		HEAD CAP ZINC PLATED STEEL	
000002	P-SH0616	FASTENER BOLT M6X1 X 16MM HEX	1.00000
		HEAD CAP CLASS 8.8 ZINC PLATED	
		STEEL	
000004	30057780	FASTENER BOLT M10X1.5 X 30MM	3.00000
		HEX HEAD	
000005	P-WS1000	WASHER SPRING LOCK M10 STEEL	1.00000
000006	30082594	FASTENER NUT HEX M10 X 1.50MM	2.00000
		W/TOOTH WASHER (KEPS NUT)	
000007	30029802	FASTENER BOLT M6X1.0 X 20MM HEX	3.00000
		HEAD CLASS 8.8 ZINC PLATED	

