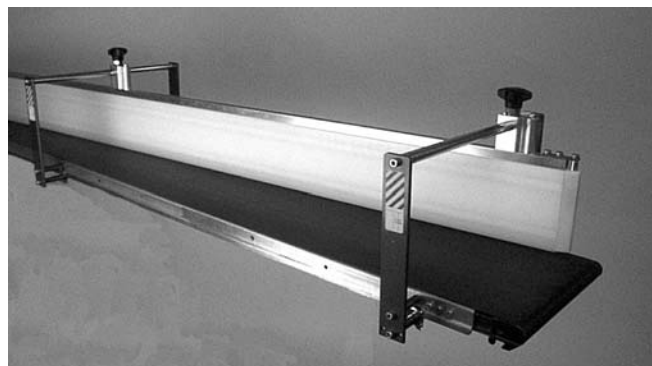
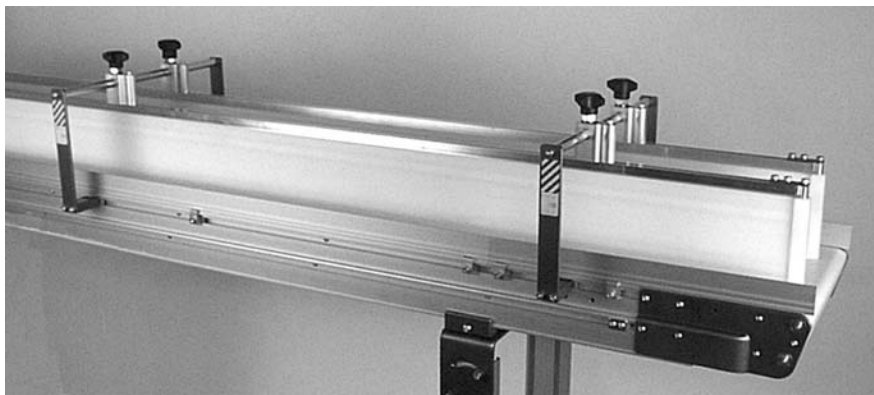




# Adjustable Lane Guiding for 2100 Series, 3100 Series & 6100 Series Flat Belt Conveyors

**Set-up, Operation & Maintenance Manual**



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## Introduction

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<b>IMPORTANT</b>
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<i>Some illustrations may show guards removed. Do NOT operate equipment without guards.</i>
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Dorner conveyors are covered by Patent Nos. 5,131,529, 5,156,260, 5,156,261, 5,174,435, 5,203,447, 5,265,714, 5,875,883, and corresponding patents and patent applications in other countries.

Dorner’s Limited Warranty applies.

Dorner reserves the right to make changes at any time without notice or obligation.

Upon receipt of shipment:

- Compare shipment with packing slip. Contact factory regarding discrepancies.
- Inspect packages for shipping damage. Contact carrier regarding damage.
- Accessories may be shipped loose. See accessory instructions for installation.

# Warnings – General Safety

## ⚠ WARNING

The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.

## ⚠ DANGER



Climbing, sitting, walking or riding on conveyor will cause severe injury. **KEEP OFF CONVEYORS.**

## ⚠ DANGER



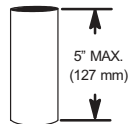
Do NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.

## ⚠ WARNING



Exposed moving parts can cause severe injury. **LOCK OUT POWER** before removing guards or performing maintenance.

## ⚠ WARNING



Maximum product height is 5" (127 mm). **FAILURE TO LIMIT PRODUCT HEIGHT WILL CAUSE PERSONAL INJURY.**

## ⚠ WARNING



Dorner cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user.

When conveyors are used in conjunction with other equipment or as part of a multiple conveyor system, **CHECK FOR POTENTIAL PINCH POINTS** and other mechanical hazards before system start-up.

## ⚠ WARNING



Exposed moving parts can cause severe injury.

**DO NOT MAKE GUIDE ADJUSTMENTS WITH CONVEYOR RUNNING.**

# Product Description

Adjustable lane guiding is a universal package. The following are application examples:

- Multiple lanes on 3100 Series conveyor (Figure 1)
- Diverting Lane on 6100 Series conveyor (Figure 2)

## Typical Components:

A	Adjustable Lane
B	Crossbar & Positioner
C	Support Bracket

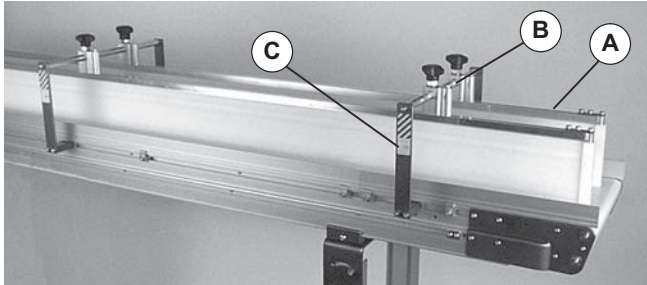


Figure 1

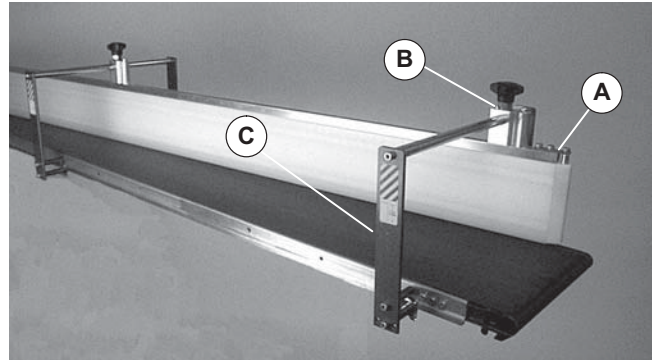


Figure 2

## NOTE

*Belt tracking guides (part # 201250M or equivalent) are recommended for 2100/3100 Series conveyors when using guide to divert product.*

*Product diverting is not recommended on /03 soft top FDA belts or /04 gray friction belts.*

# Specifications

## Models:

27M XXX- WW LL

Conveyor Length Reference\*

Conveyor Width Reference\*

500 = Lane Pkg. for 2100 and 3100 Series  
 501 = Lane Pkg. for 6100 Series  
 502 = Additional Lane Pkg for 2100/3100/6100 Conveyor (Do not complete "WW" portion of part number)

\* See "Ordering and Specifications" Catalog for details.

## Specifications:

- Available in standard 1-ft (305 mm) increments
- 0.25" (6 mm) minimum lane width

- Product height
  - 5" (127 mm) maximum
  - 0.25" (6 mm) minimum
- Guide support maximum distances (see Figure 3)
  - D = 36" (914 mm) maximum
  - E = 18" (457 mm) maximum

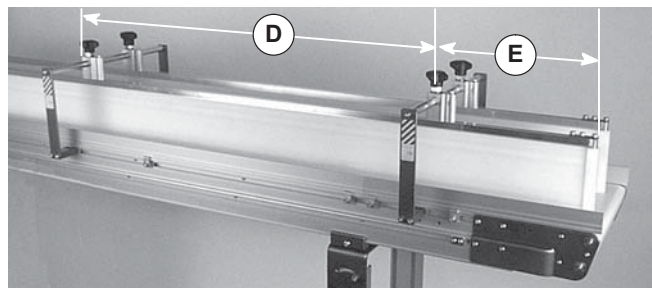



Figure 3

## Required Tools

- 5 mm hex key wrench
- Torque wrench

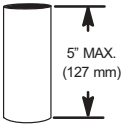
## 2100 or 3100 Series Lane Package

**⚠ WARNING**



**Exposed moving parts can cause severe injury.**  
**LOCK OUT POWER** before removing guards or performing maintenance.

**⚠ WARNING**



5" MAX.  
(127 mm)

**Maximum product height is 5" (127 mm).**  
**FAILURE TO LIMIT PRODUCT HEIGHT WILL CAUSE PERSONAL INJURY.**

**⚠ WARNING**



**Exposed moving parts can cause severe injury. DO NOT MAKE GUIDE ADJUSTMENTS WITH CONVEYOR RUNNING.**

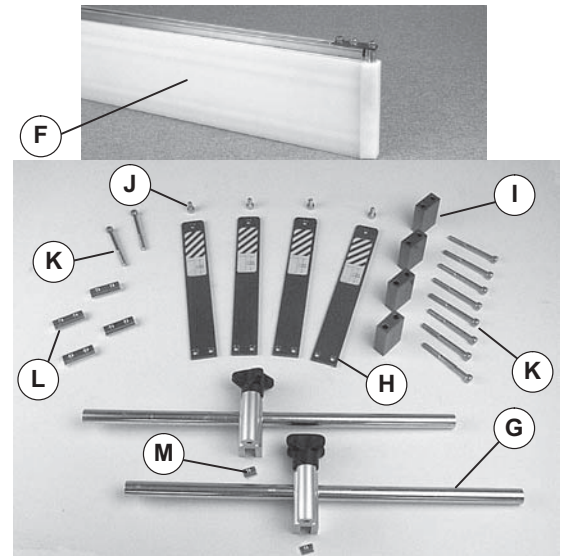
### Illustration References:

F	Lane Guide
G	Crossbars & Positioners
H	Support Brackets
I	Spacers
J	M6 x 16 mm Socket Head Screws
K	M6 x 65 mm Socket Head Screws
L	T-bars
M	Square Nuts

1. Typical components (Figure 4)

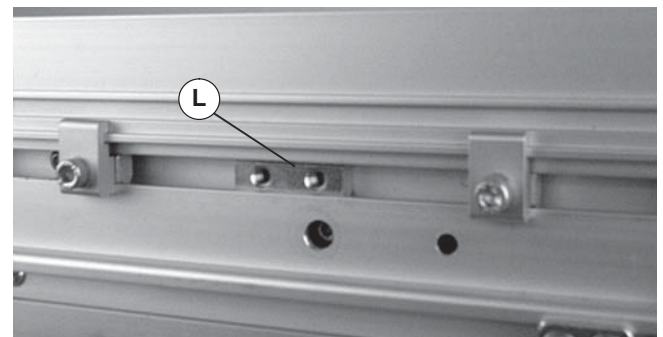
**NOTE**

*Quantities vary depending on accessory length.*



**Figure 4**

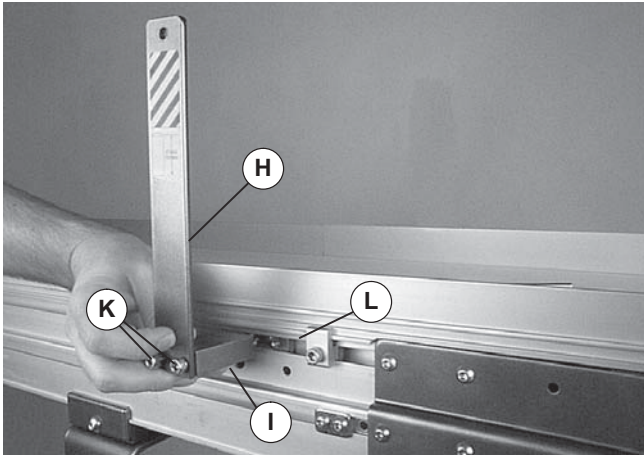
2. Install T-bar (Figure 5, item L) in each side of conveyor.



**Figure 5**

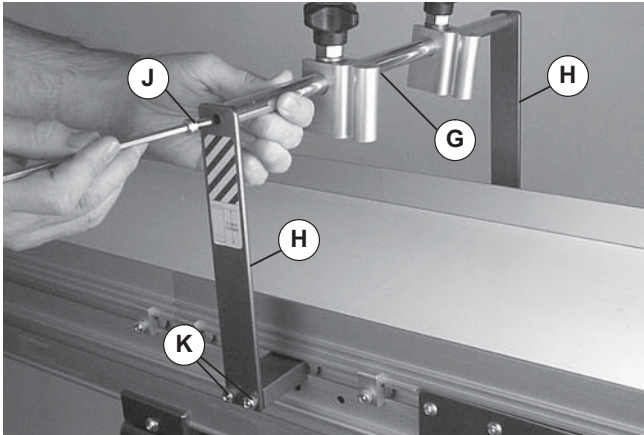
# Installation

- Loosely attach support bracket (Figure 6, item H) and spacer (I) to T-bar (L) with screws (K).



**Figure 6**

- Repeat step 3 for other side of conveyor.
- Loosely attach crossbar & positioner (Figure 7, item G) to support brackets (H) with screws (J).



**Figure 7**

- Align brackets (H) on each side of conveyor and tighten screws (J & K) to 146 in-lb (16 Nm).
- Repeat steps 2 through 6 for additional lane support(s).
- Attach lane guide. See “Lane Guide Attachment” section on page 8.

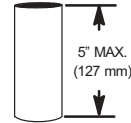
## 6100 Series Lane Package

### ⚠ WARNING



Exposed moving parts can cause severe injury. **LOCK OUT POWER** before removing guards or performing maintenance.

### ⚠ WARNING



Maximum product height is 5" (127 mm). **FAILURE TO LIMIT PRODUCT HEIGHT WILL CAUSE PERSONAL INJURY.**

### ⚠ WARNING



Exposed moving parts can cause severe injury. **DO NOT MAKE GUIDE ADJUSTMENTS WITH CONVEYOR RUNNING.**

### Illustration References:

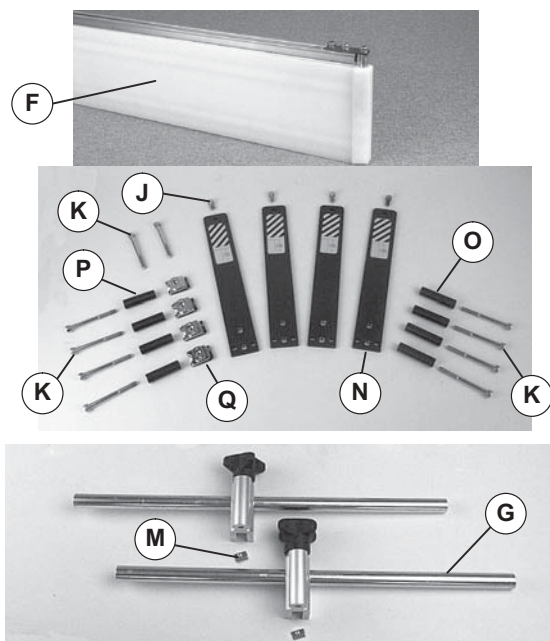
F	Lane Guide
G	Crossbars & Positioners
J	M6 x 16 mm Socket Head Screws
K	M6 x 65 mm Socket Head Screws
M	Square Nuts
N	Support Brackets
O	Upper Spacers - Longer
P	Lower Spacers - Shorter
Q	Mounting Clips

- Typical components (Figure 8)

### NOTE

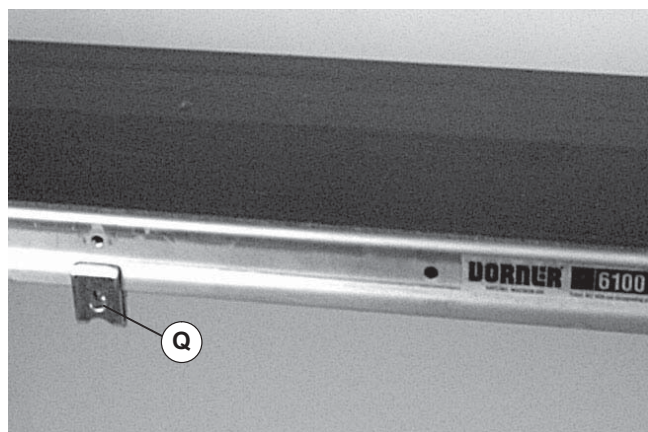
*Quantities vary depending on accessory length.*





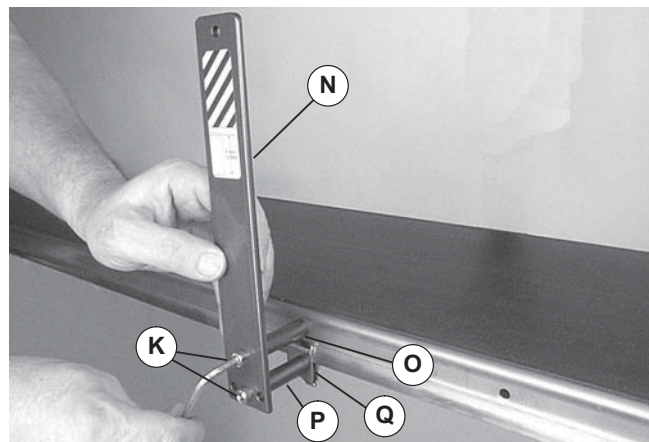
**Figure 8**

2. Attach mounting clip (Figure 9, item Q) on each side of conveyor.



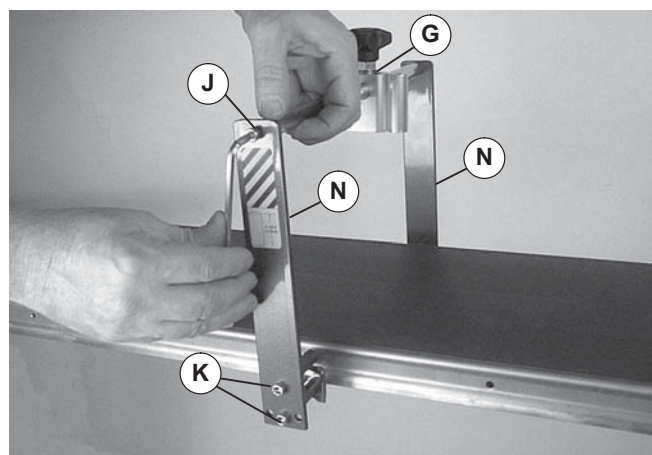
**Figure 9**

3. Loosely attach support bracket (Figure 10, item N) with screw (K) and spacer (O) in upper hole of bracket and tapped hole in conveyor.



**Figure 10**

4. Loosely install screw (K) and spacer (P) in lower hole of bracket and mounting clip (Q).
5. Repeat steps 3 & 4 for other side of conveyor.
6. Loosely attach crossbar & positioner (Figure 11, item G) to support brackets (N) with screws (J).



**Figure 11**

7. Align brackets (N) on each side of conveyor and tighten screws (J & K) to 146 in-lb (16 Nm).
8. Repeat steps 3 through 7 for additional lane support(s).
9. Attach lane guide. See next section.

# Installation

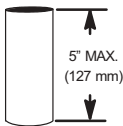
## Lane Guide Attachment

### ⚠ WARNING



Exposed moving parts can cause severe injury. LOCK OUT POWER before removing guards or performing maintenance.

### ⚠ WARNING



Maximum product height is 5" (127 mm). FAILURE TO LIMIT PRODUCT HEIGHT WILL CAUSE PERSONAL INJURY.

### ⚠ WARNING



Exposed moving parts can cause severe injury. DO NOT MAKE GUIDE ADJUSTMENTS WITH CONVEYOR RUNNING.

1. Install square nuts (Figure 12, item M) in each lane guide (F). Position each nut to its approximate mounting location.

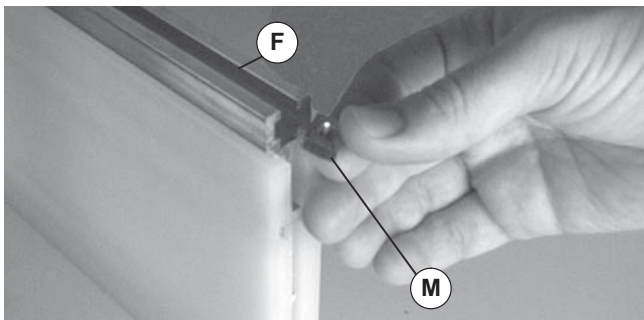


Figure 12

### NOTE

Position lane so that lead-in guide (Figure 13, item R) matches flow as shown.

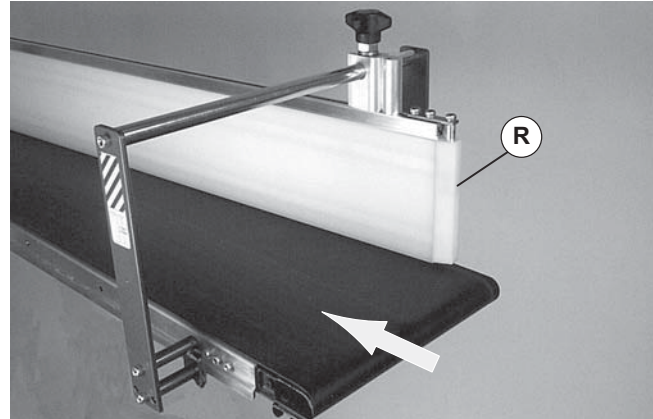


Figure 13

2. Loosely attach positioner (Figure 14, item S) to square nut (M) in lane guide (F) with screw (K).

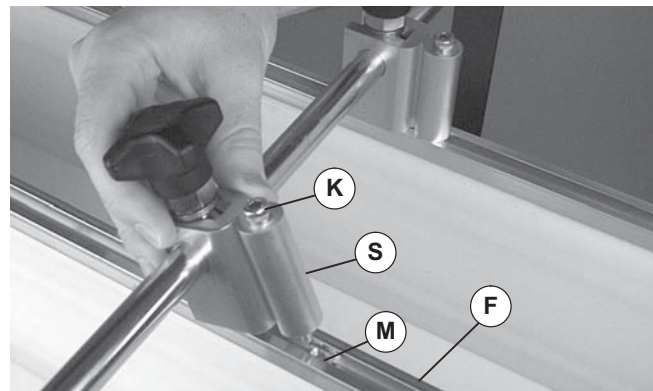


Figure 14

3. Repeat step 2 at every lane support location.

### NOTE

Lane positioner knob (Figure 15, item T) may be re-located as shown.

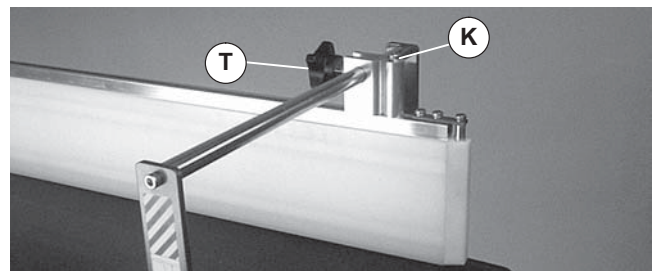


Figure 15

### NOTE

Check for clearance between guide and conveyor belt prior to conveyor start-up.

4. Adjust final lane position. Tighten screws (K) to 146 in-lb (16 Nm). Hand-tighten knob(s).



# Preventive Maintenance and Adjustment

## Required Tools

- 5 mm hex key wrench
- Torque wrench

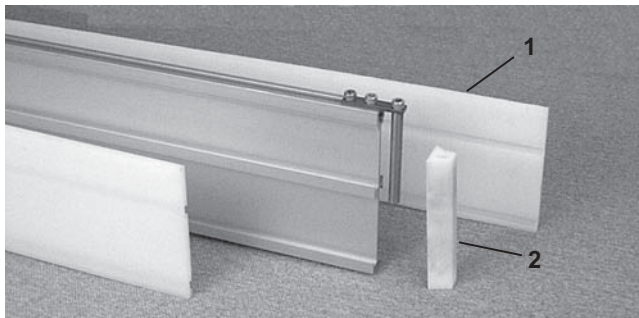
## Cleaning

Periodically, detach lane(s) from positioners. Clean any debris from between bottom of lane(s) and conveyor belt. Replace and re-secure lane(s). Tighten screws (Figure 14, item K) to 146 in-lb (16 Nm). Hand-tighten knob(s).

## Service Parts

### NOTE

*For replacement parts other than those shown on this page, contact an authorized Dorner Service Center or the factory.*



Item	Part No.	Part Description	
1	365102	Guide, 2-ft (610 mm)	
	365103	Guide, 3-ft (914 mm)	
	365104	Guide, 4-ft (1219 mm)	
	365105	Guide, 5-ft (1524 mm)	
	365106	Guide, 6-ft (1829 mm)	
	365103	365114	Guide, 7-ft (2134 mm) = Guide, 3-ft (914 mm)
			Guide, 4-ft (1219 mm)
	365104	365114	Guide, 8-ft (2438 mm) = Guide, 4-ft (1219 mm)
			Guide, 4-ft (1219 mm)
	365104	365115	Guide, 9-ft (2743 mm) = Guide, 4-ft (1219 mm)
			Guide, 5-ft (1524 mm)
	365105	365115	Guide, 10-ft (3048 mm) = Guide, 5-ft (1524 mm)
			Guide, 5-ft (1524 mm)
	365105	365116	Guide, 11-ft (3353 mm) = Guide, 5-ft (1524 mm)
Guide, 6-ft (1829 mm)			
365106	365116	Guide, 12-ft (3658 mm) = Guide, 6-ft (1829 mm)	
		Guide, 6-ft (1829 mm)	
	365105	Guide, 13-ft (3962 mm) = Guide, 5-ft (1524 mm)	
		Guide, 4-ft (1219 mm) x2	
2	360255	Lead-in Guide	

# Return Policy

Returns must have prior written factory authorization or they will not be accepted. Items that are returned to Dorner without authorization will not be credited nor returned to the original sender. When calling for authorization, please have the following information ready for the Dorner factory representative or your local distributor:

1. Name and address of customer.
2. Dorner part number(s) of item(s) being returned.
3. Reason for return.
4. Customer's original order number used when ordering the item(s).
5. Dorner or distributor invoice number (if available, part serial number).

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization (RMA) number for reference. RMA will automatically close 30 days after being issued. To get credit, items must be new and undamaged. There will be a return charge on all items returned for credit, where Dorner was not at fault. It is the customer's responsibility to prevent damage during return shipping. Damaged or modified items will not be accepted. The customer is responsible for return freight.


Product Type									
Standard Products									Engineered to order parts
Product Line	Conveyors	Gearmotors & Mounting Packages	Support Stands	Accessories	Spare Parts (non-belt)	Spare Belts - Standard Flat Fabric	Spare Belts - Cleated & Specialty Fabric	Spare Belts - Plastic Chain	All equipment and parts
1100	30% return fee for all products except: 50% return fee for conveyors with modular belt, cleated belt or specialty belts						non-returnable		case-by-case
2200									
2200 Modular Belt									
2200 Precision Move									
2300									
2300 Modular Belt									
3200									
3200 LPZ									
3200 Precision Move									
4100									
5200									
5300									
6200									
Controls									
7200 / 7300	50% return fee for all products								
7350	non-returnable								
7360									
7400									
7600									

Returns will not be accepted after 60 days from original invoice date. The return charge covers inspection, cleaning, disassembly, disposal and reissuing of components to inventory. If a replacement is needed prior to evaluation of returned item, a purchase order must be issued. Credit (if any) is issued only after return and evaluation is complete.

Dorner has representatives throughout the world. Contact Dorner for the name of your local representative. Our Customer Service Team will gladly help with your questions on Dorner products.

For a copy of Dorner's Warranty, contact factory, distributor, service center or visit our website at [www.dorner.com](http://www.dorner.com).

For replacement parts, contact an authorized Dorner Service Center or the factory.

 <p>Dorner Mfg. Corp. reserves the right to change or discontinue products without notice. All products and services are covered in accordance with our standard warranty. All rights reserved. © Dorner Mfg. Corp. 2015</p>	<p><b>DORNER MFG. CORP.</b>            975 Cottonwood Ave., PO Box 20            Hartland, WI 53029-0020 USA            TEL 1-800-397-8664 (USA)            FAX 1-800-369-2440 (USA)            Internet: <a href="http://www.dorner.com">www.dorner.com</a></p>	<p>Outside the USA:            TEL 1-262-367-7600            FAX 1-262-367-5827</p>
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