

Gripper Elevator/Lowerator Specifications

Complete Conveyor Systems and Equipment

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Conveyo	onveyor Specifications Toll Free (844) 220-0				
Frame	Material Thickness	Material	Finish		
	12 GA	Mild steel	"Stardust Silver" p	owder coat painted	
	12 GA	Stainless Steel	#4 polish finish		
		•	·		
Standard	Parts				
Modules	• 30" radius turns				
	 Intermediate sections: ▶ 6", 12', 18", 24", 48", 72" 				
Wearstrips Carryway					
	• 1.5" thick Duavar guide track < 200	FPM			
1.5" thick Nylatron guide track > 200 FPM					
Motor/	Brand	Speed			
Reducer	Nord	• 1 HP < 140 FPM			
		• 2 HP >140 FPM			
	Nord 63 case SMI	N/A			
Conveyor	Standard Nominal (FPM)	Minimum	Maximum		
Speeds	• 35 • 50	7 FPM*	250 FPM*		
	• 80	*Speed obtained using a	*Speed obtained using a VFD		
	• 105	VFD			
	• 140 • 200				
	200				
Supports	Style				
	"G" style 5"x5" channel				
	• Heavy-duty				
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Elevation	Lower	Upper	Minimum Offset		
Range	18"-60", in 6" increments	84"-264", in 6" increments	66"	0"-138" in 6" increments	
Chain &	Configuration	Attachments			
Sprockets	1873 Tab G	"D" or "J" style gripper			
Lexan	Specifications	Options			
Guarding	Conveyor return path guard included	External guard			
Opening	Specifications				
Opening	Adjustment range 0"-11.5"				
Opening	 Adjustment range 0"-11.5" 1" threaded rod used to position 				
Opening	 Adjustment range 0"-11.5" 1" threaded rod used to position conveyor Powered by hand wheel through 				
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Conveyor Specifications Toll Free (84			Toll Free (844) 220-0086	
Bearings	Construction	Finish		
	2-Hole Steel insert with set-screw	 Painted Sealed for life General purpose lube 		
Shafts	Diameter			
 Idle = 1.0" Drive = 1.25" 				
Product	Width	Height	Length	
Range	1.0"-11.0"	1.0"-12.0"	1.0"-15.0"	

Maintenance Information

1. Pre-Start Checklist

- · Fasteners Some may have loosened during shipment. Re-tighten as required
- Inspect all splice points for proper wearstrip alignment
- Hand run a 48" long chain section through conveyor, both carryway and return paths, to check for binding
- Verify motor rotation
- Verify chain direction is correct (Figure 1)
- Check for proper product clearance between guide rails prior to operation

2. Start-up/Break-in

- During first 250 hours of operation Monitor the following
 - Initial chain stretch Evaluate chain length and remove excess links
 - Chain dusting Normal occurring issue that subsides after the first 250 hours of run time. Clean as required

3. Proper Width Adjustment

- Minimum pressure should be used to elevate and control product
- Excessive pressure may result in product damage, motor overload and rapid wearstrip, chain and bulb wear

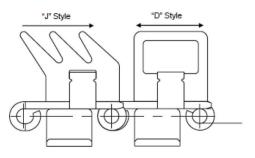
4. Control Basics

- Start downstream conveyors 1-5 seconds prior to gripper activation
- Variable Frequency Drive (VFD) required for a "soft" start
- Gripper speed should be 10-20% faster than infed conveyor to prevent product damage through turns
- Empty/purge gripper before stopping to minimize risk of product slippage during restart

5. Maintenance

Catenary length - (See Figure 2)

- ▶ Chain length Replace when 80 links > 123" or 40 links > 61.5"
 - Be sure to release chain tension in take-ups when removing links (Figure 2). Chain must be disconnected at either a drive or idle sprocket area. Special chain break tool may be required to disconnect roller chain (Figure 3)
 - White top plate present to designate where connecting (master) link is used to base roller chain
- Sprocket wear Look for excessive wear or hooked teeth
- Reducer Look for leaking seals
- Bearings Look for leaking seals
- Wearstrip wear
 - Examine for disproportionate wear
- Chain Surging (Slip Stick)
 - ▶ Hard to predict natural phenomenon that depends on speed, load, construction and lubrication
 - Poses no operational concerns unless it causes product tipping
 - $\circ\,$ Look for chain binding at turns and copes in both carryway (product path) and the return path
- Motor Hop & Wobble
 - Natural phenomenon that is desirable
 - Poses no operational concerns with life expectancy of conveyor or reducer
 - ▶ Wobble releases stress build-up due to normal machining tolerances in rotating shaft
 - Increases equipment longevity compared to rigidly mounted reducers where misalignments are trapped

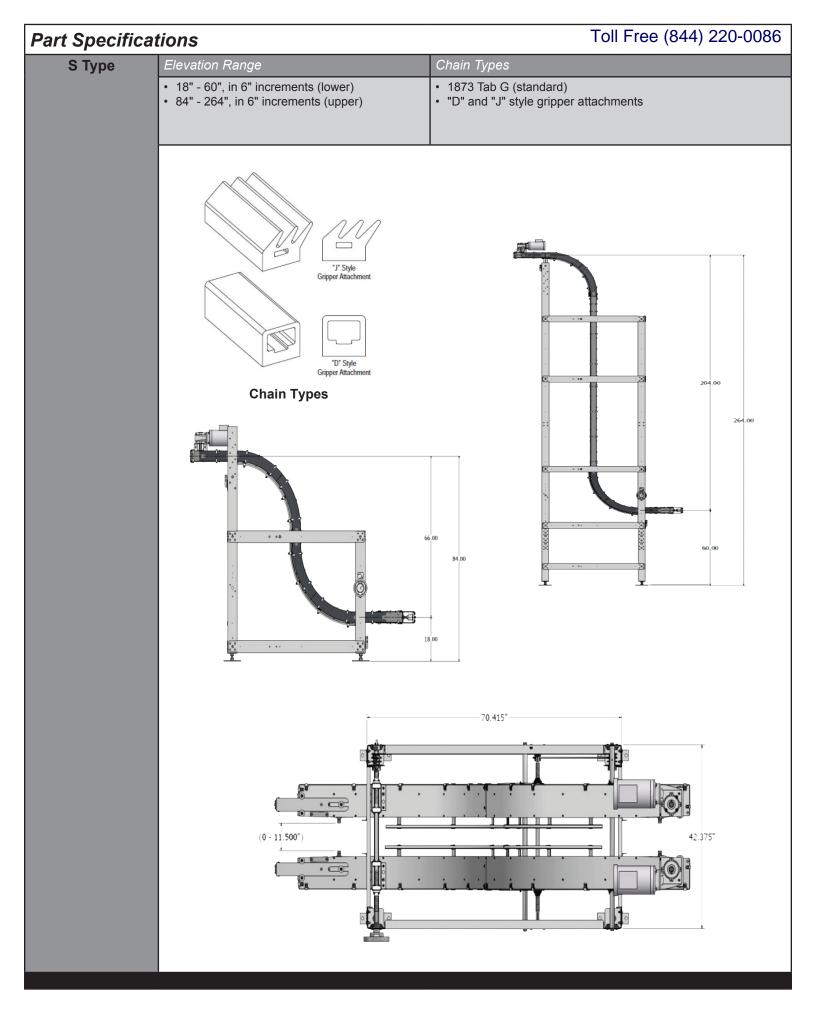


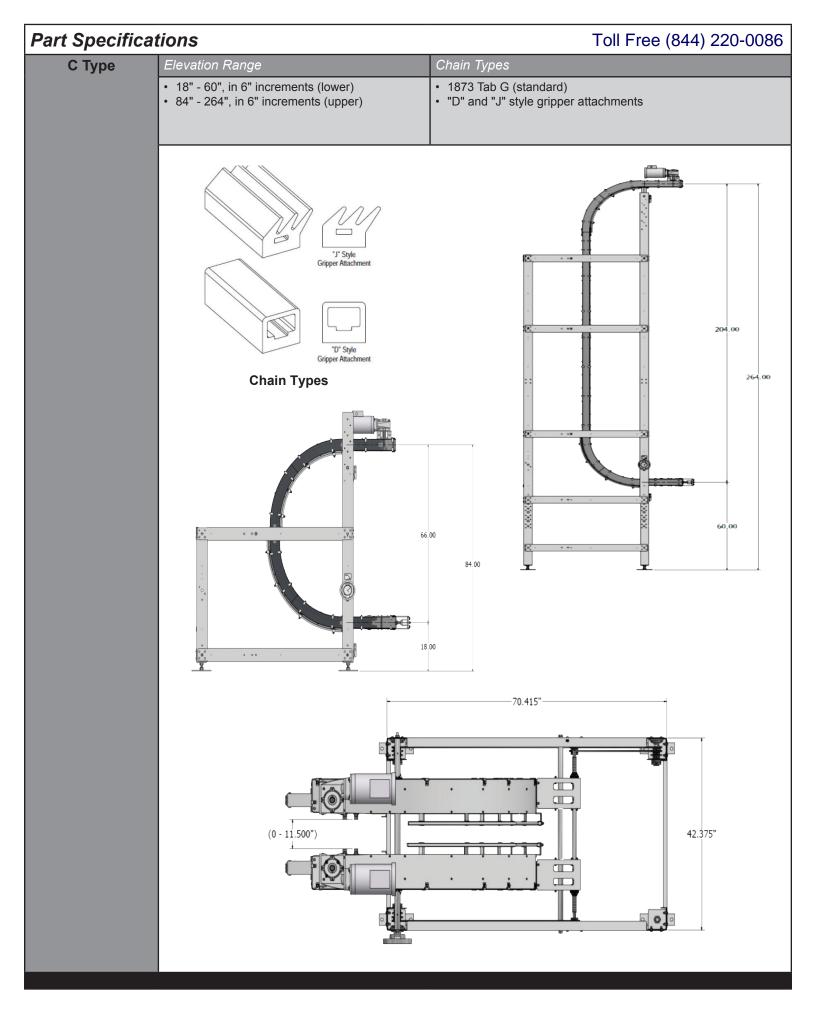
Gripper Direction of Travel



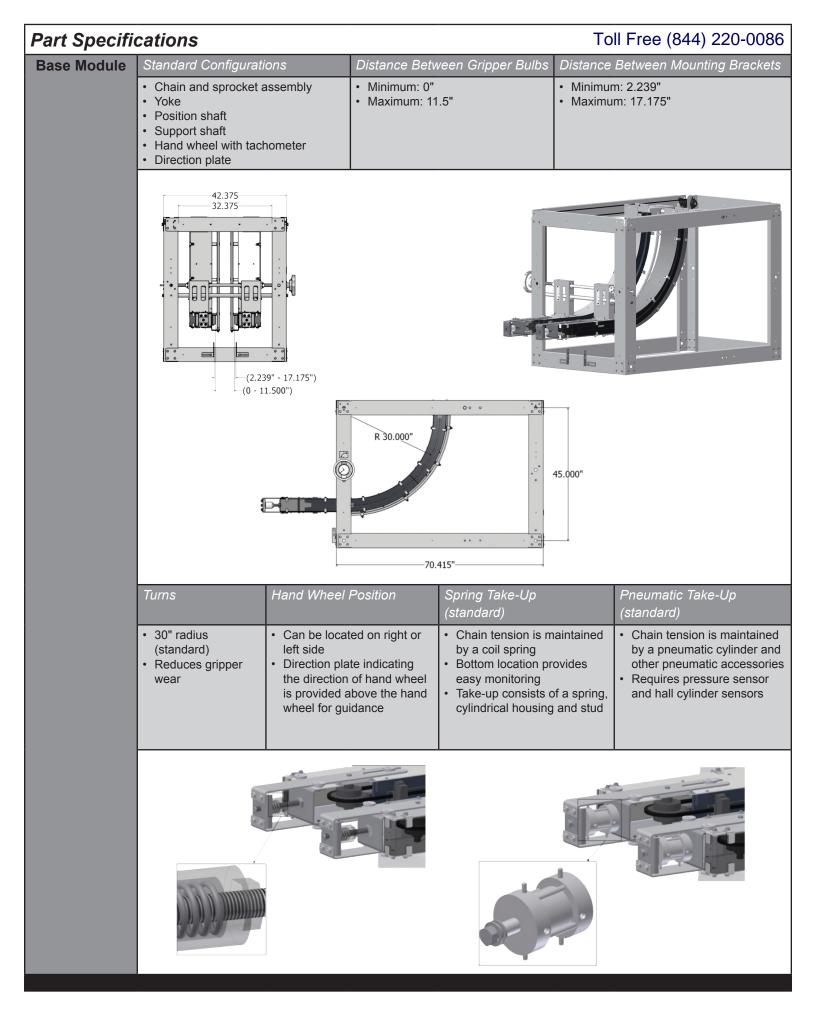
Figure 2





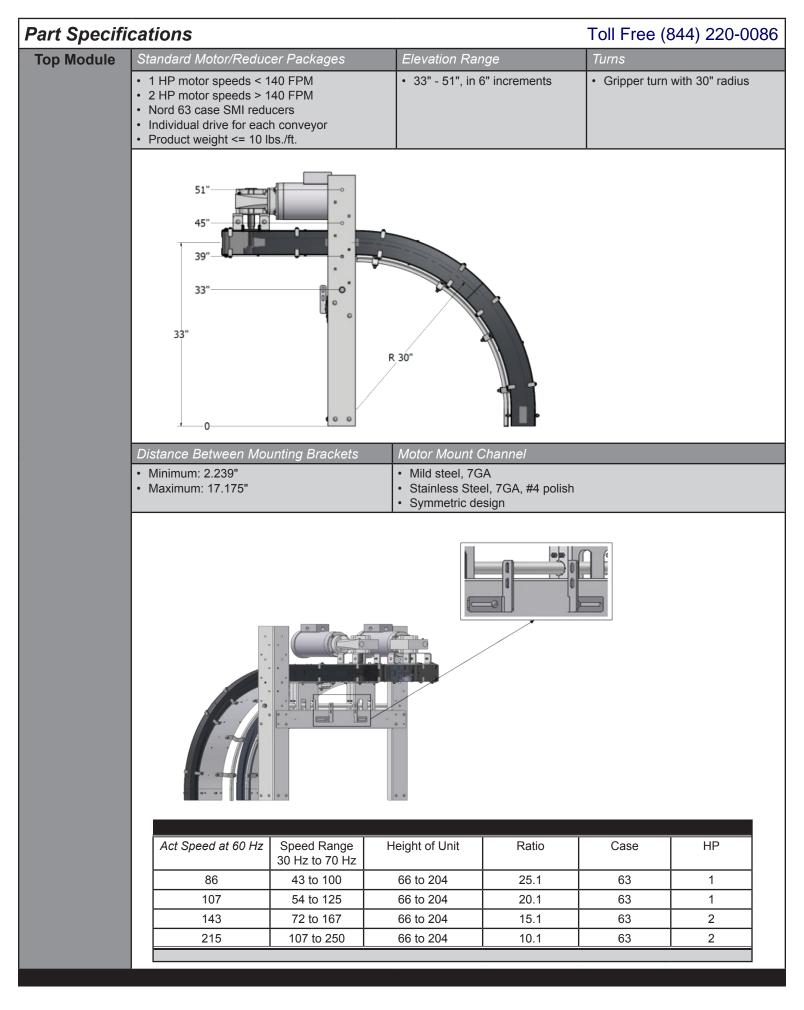


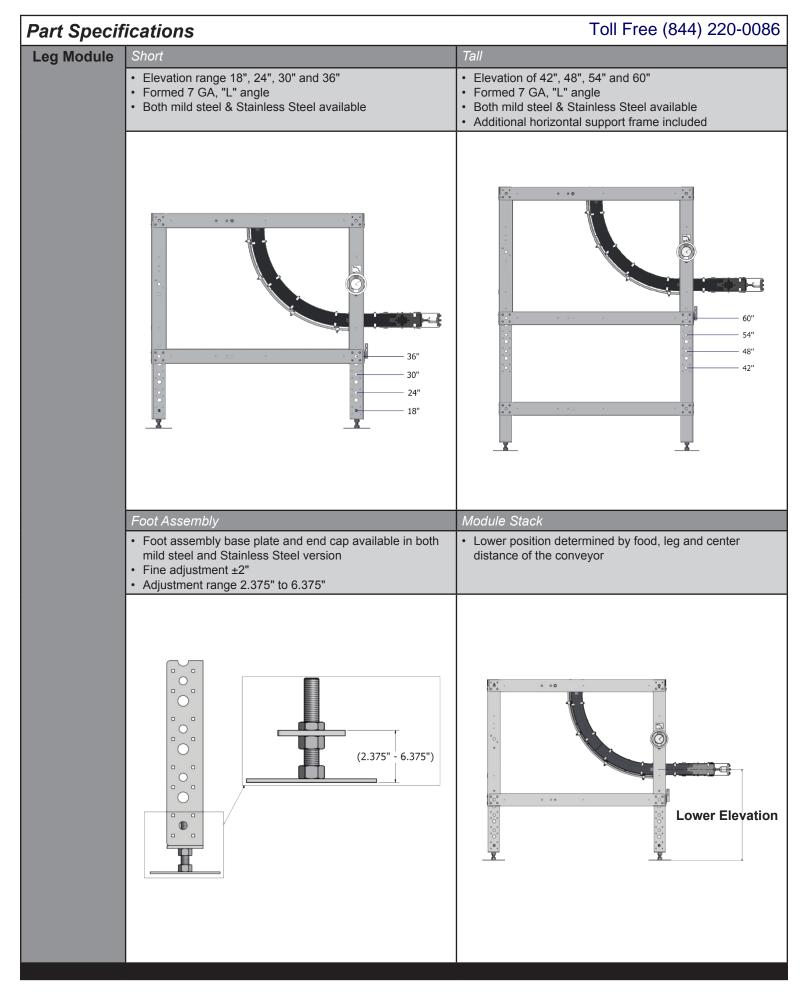
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Part Specifications Toll Free (844) 220-0086					
Intermediate	Standard Configurations		Design)	
	Yoke Vake position rod		• Symr	netric	
	Yoke position rodSupport rod				
	Support frameChain & sprocket assembly in	dudod			
		ciudeu			
			375	70.415*	
		i i	nation Table	Î	
	24" = 24		2" = 72	96" = 48 + 48	120" = 72 + 48
	6" = 6 $30" = 24 + 6$	<u> </u>	' = 72 + 6 = 72 + 12	102" = 48 + 48 + 6 108" = 48 + 48 + 12	126'' = 72 + 48 + 12 132'' = 72 + 48 + 12
	12" = 12 36" = 24 + 12 18" = 18 42" = 24 + 18		= 72 + 12 = 72 + 18	108'' = 48 + 48 + 12 $114'' = 48 + 48 + 18$	132" = 72 + 48 + 12 138" = 72 + 48 + 18
	$\frac{18 - 18}{12 - 24 + 18} \frac{42 - 24 + 18}{10 - 48 + 18} \frac{90 - 72 + 18}{114 - 48 + 48 + 18} \frac{138 - 72 + 48 + 18}{138 - 72 + 48 + 18}$ $Total Length Desired = Combination of Sections Used$				

Part Specific	cations	Toll Free (844) 220-0086
Intermediate	Standard Configurations: 6", 12" & 18"	Design
(Top Module)	 Mounted at base of top module Combined with 24", 48" and 72" intermediates Lexan guard for conveyor return path included 	• Symmetric





Part Specifie	cations	Toll Free (844) 220-0086
Lexan	Standard Configurations	Optional
Guarding	 Lexan guard for return path included Provides required operator safety 	 Lexan guard for convey return path included Clear Lexan sheet ³/₁₆" thick Lexan guard spacer Mounting button Sheet included for frame structure 24" intermediate 48" intermediate 72" intermediate Guarding available for top module if required (not shown)
	<image/>	

Part Specifications

Toll Free (844) 220-0086



Warranty

THOMAS CONVEYOR

MODULAR CONVEYOR EXPRESS WARRANTY

Toll Free (844) 220-0086

MODULAR CONVEYOR EXPRESS will repair or replace any products that have failed under normal use due to faulty material or defective workmanship for 1 year. Motors and chain carry the manufacturer's warranty. No other warranty is expressed or implied unless otherwise set forth in writing and approved by representative duly authorized to extend such approval by MODULAR CONVEYOR EXPRESS. All rights of design and invention are reserved.

1/3/2013



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