

# **MPB OPTIMIZER**

**Optimum Performance Through Technical Innovation**



**M**odular  
**P**lastic  
**B**elt  
Conveyors

**Conveyor  
Technologies Ltd.**

# OPTIMIZER FEATURES AND BENEFITS

**Conveyor Technologies Ltd. strives to provide our Customers with maximum performance, and durability in all the products we produce. The Features and Benefits of our new "OPTIMIZER" Modular Plastic Belt Conveyor illustrate our dedication to provide you with the finest.**

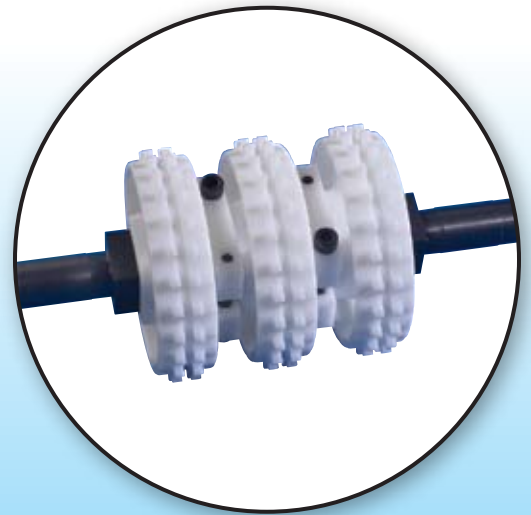
- Dramatic increase in belt and sprocket life combined with improved product conveying stability, and reduced noise level, through low chordal action sprockets and proper back tension.
- Precise dynamic belt tracking on drive and tail sprockets reduces belt edge and guide strip wear, while eliminating lateral belt drift.
- 100% Compliance with belting industry essential requirements for proper belt performance.
- Choice of belt pitches from .5 – 1.00 inch provides optimum selection for each application. Entry nose bar available with .5 pitch.
- Elevated speed and load ratings with reduced wear, offer maximum performance, through controlled sprocket engagement, and synchronization.
- Perfect bearing alignment is insured with exclusive use of heavy duty, self-aligning, sealed for life ball bearings. All bearings are standard items, available world-wide.
- Two-Year unlimited hour warranty offers most extensive item coverage, including bearings, and gear reducer.
- Permits access to interior for maintenance and cleaning, without separating belt.
- "Compact drives" require approximately 50% less space, while providing perfect alignment, and three minute change-over. Drives can be positioned to clear overhung loads.
- Reduced height of drive and tail sections permits greater utilization in space restricted applications, while retaining minimum wear, and product stability.
- Faster threading of belt without drive dis-engagement.
- Greatly reduced maintenance down-time.



**Optional Nose Bar  
(.5" Pitch Belts)**



**Access Without  
Belt Separation**



**Dynamic Tracking  
Sprocket Pre-Loading  
Self-Synchronizing  
Low Chordal Action  
200° Belt Wrap**

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**Conveying Excellence in Products, Service and Innovation**

# BELTING

A large selection of belting is available to meet specific requirements. The belting shown below depicts popular styles that are commonly utilized. Additional styles such as flights, diamond top, and other open styles are also available. Belts are produced in polypropylene for good cost / performance and excellent chemical resistance, polyethylene for low temperatures and high impact, acetal for low friction and impact and cut resistance, and polyamide for high strength and abrasion resistance. Special compounds are available for low electrical surface and volume resistance, detectable (X-ray and metal detectors), UV radiation resistance, flame retardant, and elevated part temperature.



**Flat Top**



**Grip Top**



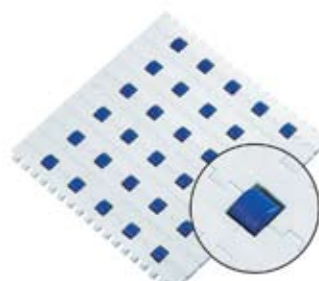
**Flush Grid**



**Mesh Top**



**Nub Top**



**Roll Top**

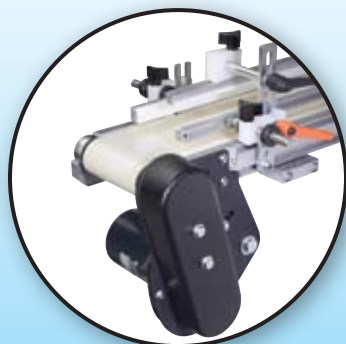
# DRIVES



**Compact  
(Fast Change)**



**Bottom  
Right-Angle**



**Bottom  
In-Line**



**Side Mount  
Right-Angle**

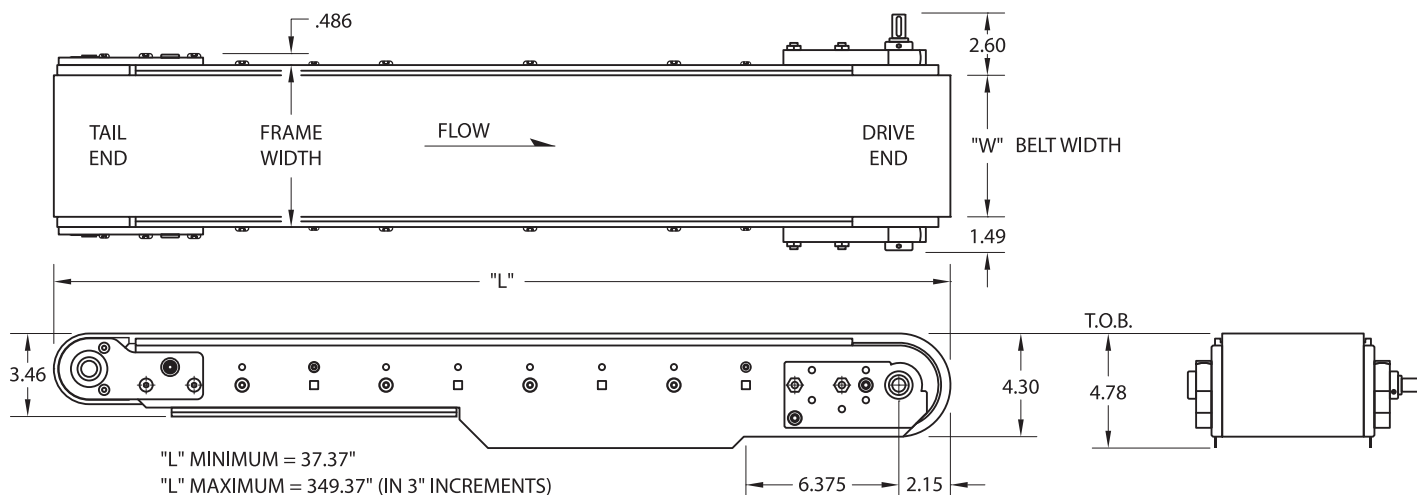
Motors available in single phase, three phase and variable speed A.C. and D.C.

# DIMENSIONS



CONVEYOR WIDTH	BELT WIDTH	FRAME WIDTH
02	1.97	2.75
3.33	3.28	4.08
04	3.94	4.75
06	5.90	6.75
08	7.87	8.75
10	9.84	10.75
12	11.81	12.75
14	13.78	14.75
16	15.75	16.75
18	17.72	18.75
20	19.69	20.75
22	21.65	22.75
24	23.62	24.75

= SPECIAL ORDER



# GUIDE RAIL SIZES

SEE GUIDE RAIL BROCHURE FOR OPTIONS



**TYPE A .81"**  
(20.6mm) HIGH



**TYPE B 1"**  
(25.4mm) HIGH



**TYPE D 1.75"**  
(44.5mm) HIGH



**TYPE E 2.125"**  
(54mm) HIGH



**TYPE F 3"**  
(76.2mm) HIGH



**TYPE G 4"**  
(101.6mm) HIGH

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# MODULAR PLASTIC BELTING 1" PITCH

No.	SERIES 2500	WIDTH													
		2 50	3.3 83.4	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	22 550	24 600	
07	2510 FLAT TOP	X	X	X	X	X	X	X	X	X	X	X	X	X	
08	2520 FLAT TOP	X	X	X	X	X	X	X	X	X	X	X	X	X	
09	2520 GRIP TOP				X	X	X	X	X	X	X	X	X	X	
10	2533 GRIP TOP				X	X	X	X	X	X	X	X	X	X	
11	2514 NUB TOP				X	X	X	X	X	X	X	X	X	X	
12	2533 FLUSH GRID	X	X	X	X	X	X	X	X	X	X	X	X	X	
13	2511 MESH TOP	X	X	X	X	X	X	X	X	X	X	X	X	X	
14	2520 ROLLER TOP				X	X	X	X	X	X	X	X	X	X	
15	2533 ROLLER TOP				X	X	X	X	X	X	X	X	X	X	
						= SPECIAL ORDER									