



# New London Engineering

Quality Conveyors Since 1948



## **AUTOMATION SERIES**

Flexible, reliable, low cost conveyors engineered for high speed and highly automated assembly lines, automation cells and packaging lines.

American Made and American Engineered





# AUTOMATION SERIES

**Flexible, Reliable, Low Cost conveyors engineered for high speed and highly automated assembly lines, automation cells and packaging lines.**

Why do we need an Automation Series of conveyors? The increased demand on U.S. manufacturers to reduce costs and improve productivity has pushed them to automate their production facilities. This Automation transition has resulted in a higher demand for flexible, reliable and lower cost machinery, including conveyors.

**New London's Automation Series (AS) is available in two styles – The AS-1 and the AS-2:**



## AS-1

The AS-1 single T-slot automation conveyor is designed for general use automation applications with simple straight forward accessory mounting applications.



## AS-2

The heavier duty AS-2 double T-slot automation conveyor is designed for heavier load, higher speed applications with more complex, multifaceted accessory mounting requirements.

### Unique Features of These Units Include:



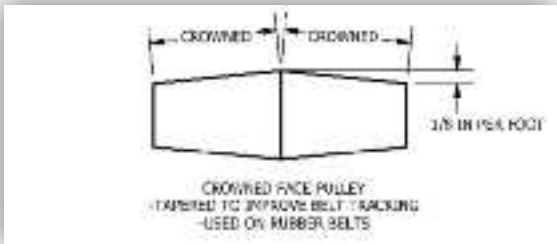
Accessories can be easily mounted and moved anywhere along the conveyor.



Single point belt tensioning system reduces downtime and maintenance costs.



The largest and longest lasting automation bearings in the industry.



Large crowned face pulleys can be tracked easier and carry heavier loads at faster speeds than smaller diameter pulleys.



The combination of both steel and aluminum keeps prices low and provides durability.

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**Automation Series Specification Chart**

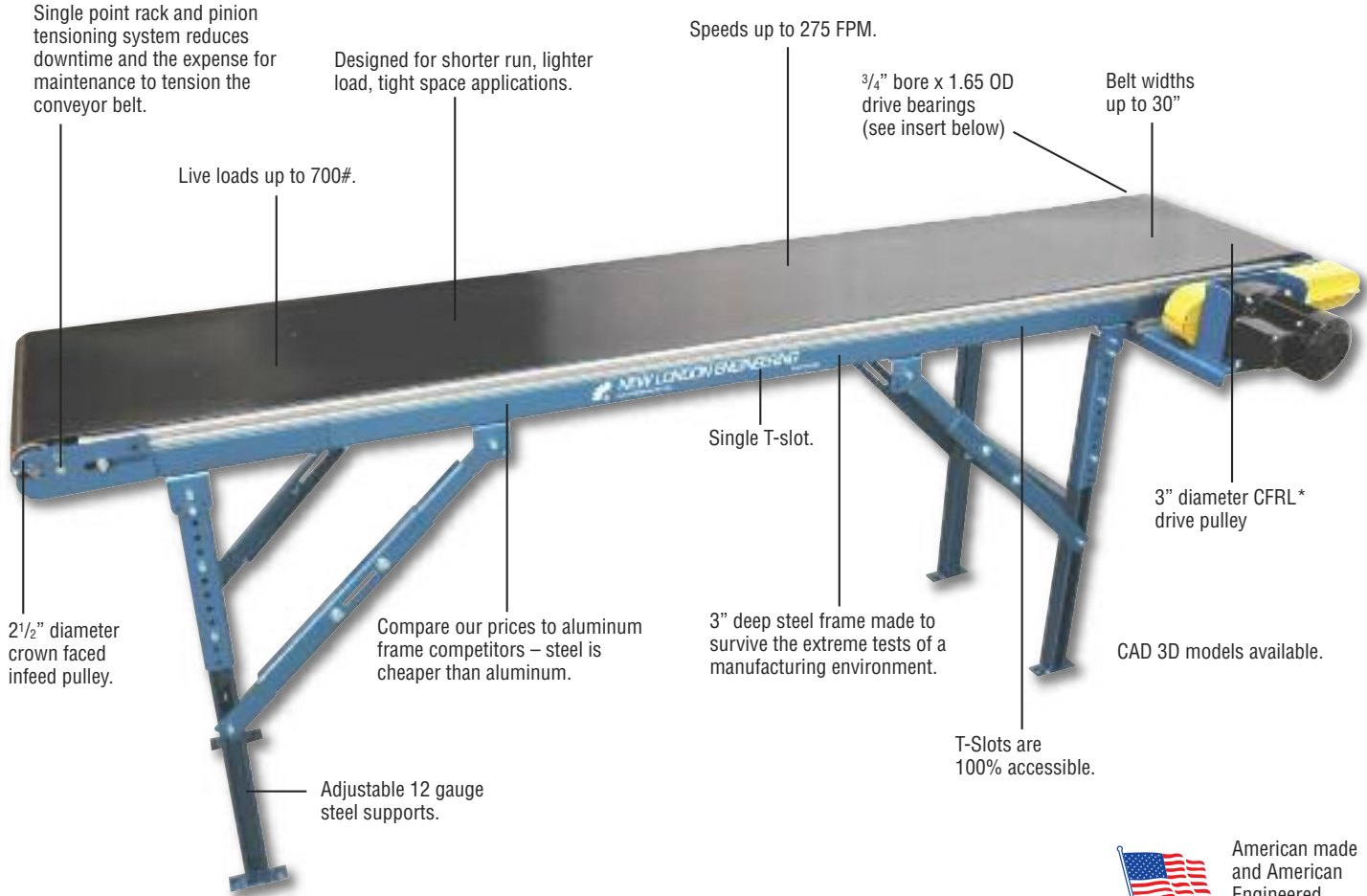
TYPE	SLIDER BEDS (SB)		CLEATED BELTS (CL)		PLASTIC BELTS – STRAIGHT (PB)		PLASTIC BELTS – RADIUS CURVED (PBR)	
	AS-1	AS-2	AS-1	AS-2	AS-1	AS-2	AS-1	AS-2
Applications	Short run, light loads, tight space applications	Long run, heavier load, fast speed applications	Lighter load inclines and part spacing applications	Heavier load inclines and part spacing applications	Short run, light load plastic belt applications	Long run, heavier load plastic belt applications	Short run, light load plastic belt applications	Long run, heavier load plastic belt applications
Belt Widths	2" – 30"	2" – 36"	2" – 30"	2" – 36"	2" – 30"	2" – 36"	4" – 30"	4" – 36"
End Drive Lengths	3' – 20'	3' – 20'	3' – 20'	3' – 20'	3' – 50'	3' – 50'	3' – 20'	3' – 40'
Center Drive Lengths	3' – 40'	3' – 40'	NA	NA	3' – 50'	3' – 50'	3.5' – 50'	3.5' – 50'
Maximum Live Load	700#	1100#	700#	1100#	700#	1300#	200#	200#
Maximum Speed	275 fpm	365 fpm	275 fpm	365 fpm	285 fpm	365 fpm	230 fpm	230 fpm
Frame Depth (12 Ga)	3"	4"	3"	4"	3"	4"	3"	4"
Frame Width	BW + 1"	BW + 1"	BW + 3"	BW + 3"	BW + 3"	BW + 3"	BW + 4"	BW + 4"
Drive Pulley	3" dia. CFRL* Pulley	4" dia. CFRL* Pulley	3" dia. CFRL* Pulley	4" dia. CFRL* Pulley	19 Tooth x 3.1" Pitch Dia. x 1" bore	24 Tooth x 3.9" Pitch Dia. x 1" bore	10 Tooth x 3.3" Pitch Dia. x 1" bore	12 Tooth x 3.9" Pitch Dia. x 1" bore
Drive Shaft Dia.	3/4"	1"	3/4"	1"	3/4"	1"	3/4"	1"
Infeed Pulley	2-1/2" dia. CF*	2-1/2" dia. CF*	2-1/2" dia. CF*	2-1/2" dia. CF*	2-1/2" dia. FF*	2-1/2" dia. FF*	2-1/2" dia. FF*	2-1/2" dia. FF*
Infeed Shaft Dia.	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Drive Bearing (2 bolt flanged)	3/4" bore x 1.65" OD (42MM)	1" bore x 1.85" OD (47MM)	3/4" bore x 1.65" OD (42MM)	1" bore x 1.85" OD (47MM)	3/4" bore x 1.65" OD (42MM)	1" bore x 1.85" OD (47MM)	3/4" bore x 1.65" OD (42MM)	1" bore x 1.85" OD (47MM)
Infeed Bearing	3/4" bore x 1.65" OD	1" bore x 1.85" OD	3/4" bore x 1.65" OD	1" bore x 1.85" OD	3/4" bore x 1.65" OD	1" bore x 1.85" OD	3/4" bore x 1.65" OD	1" bore x 1.85" OD
Return Rollers	1-5/16" dia. x 1/2" shaft rollers	2" dia. x 7/16" shaft rollers	NA	NA	1-5/16" dia. x 1/2" shaft rollers	2 dia. x 7/16" shaft rollers	1-5/16" dia x 1/2" shaft rollers	2" dia x 7/16" shaft rollers
T-Slots	1" W x 1/4" slot (1) Per side	1" W x 1/4" slot (2) Per side	1" W x 1/4" slot (1) Per side	1" W x 1/4" slot (2) Per side	1" W x 1/4" slot (1) Per side	1" W x 1/4" slot (2) Per side	1" W x 1/4" slot (1) Per side	1" W x 1/4" slot (2) Per side
Belt Pitch	NA	NA	NA	NA	1/2"	1/2"	1"	1"

\*(CFRL – Crown Faced Rubber Lagged) (CF – Crown Faced) (FF – Flat Faced)

For applications with specifications other than specified – contact NLE.

### AS-1

See pages 27 & 28 for additional features and benefits.



American made  
and American  
Engineered

- **The Lowest Priced Automation Conveyors in the industry.**
- **100% accessible T-Slots.**
- **Replacement parts are available with same day or next day shipment.**
- **T-Slots are compatible with other modular framing companies such as Frame-World or 80/20®.**

\*CFRL – Crown Faced Rubber Lagged.

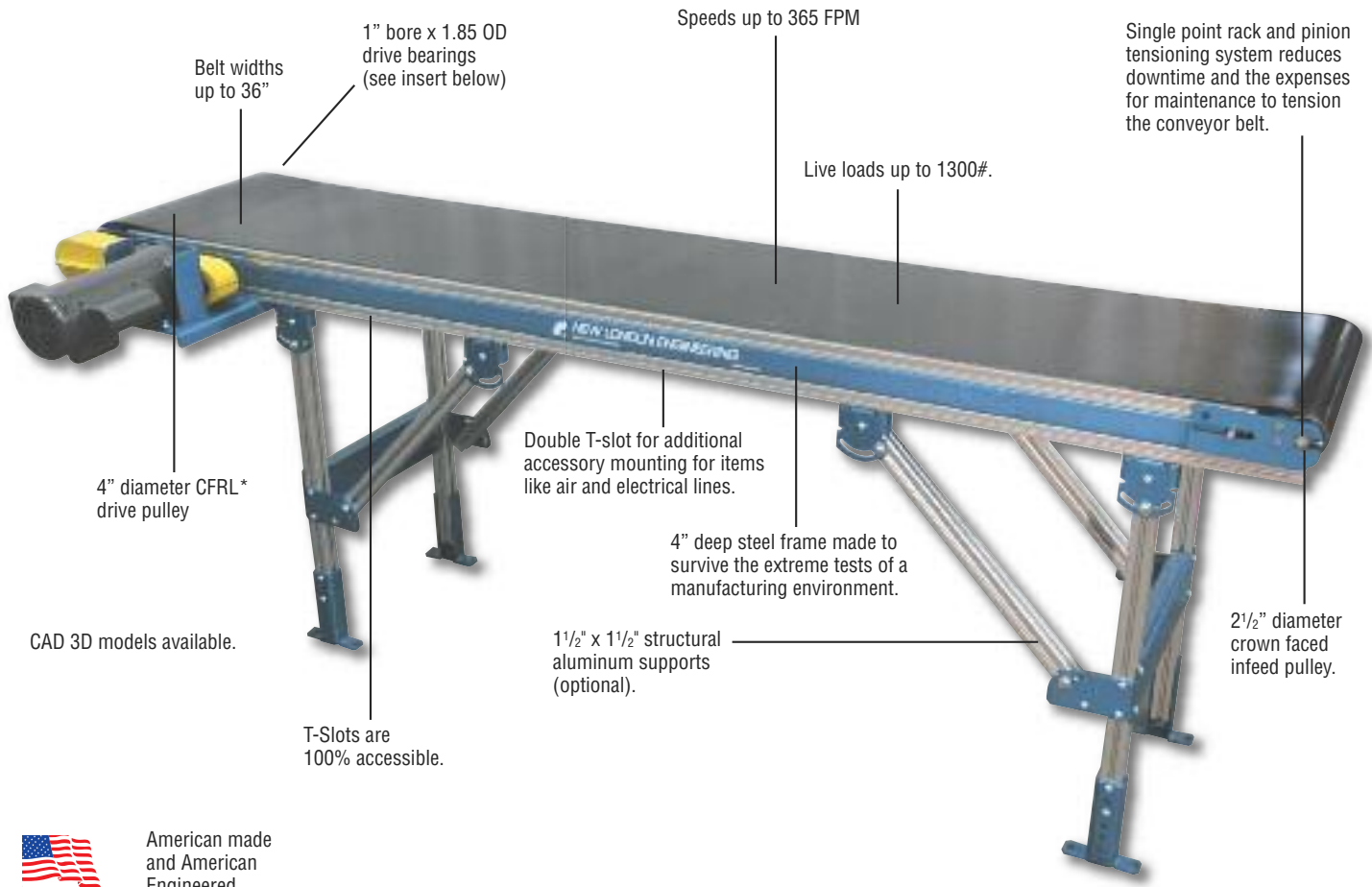
### Drive Bearings



Size of New London drive bearing  
1.85"OD (47mm)

**AS-2**

See pages 27 & 28 for additional features and benefits.

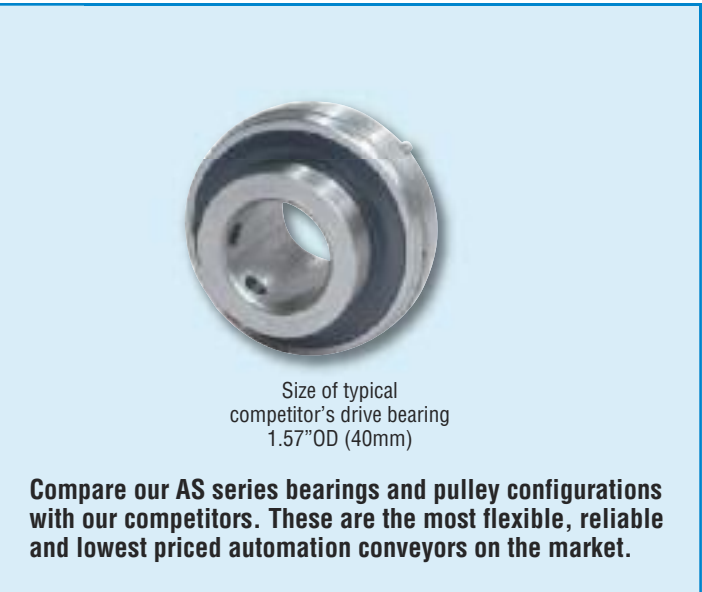


CAD 3D models available.

T-Slots are 100% accessible.



American made and American Engineered



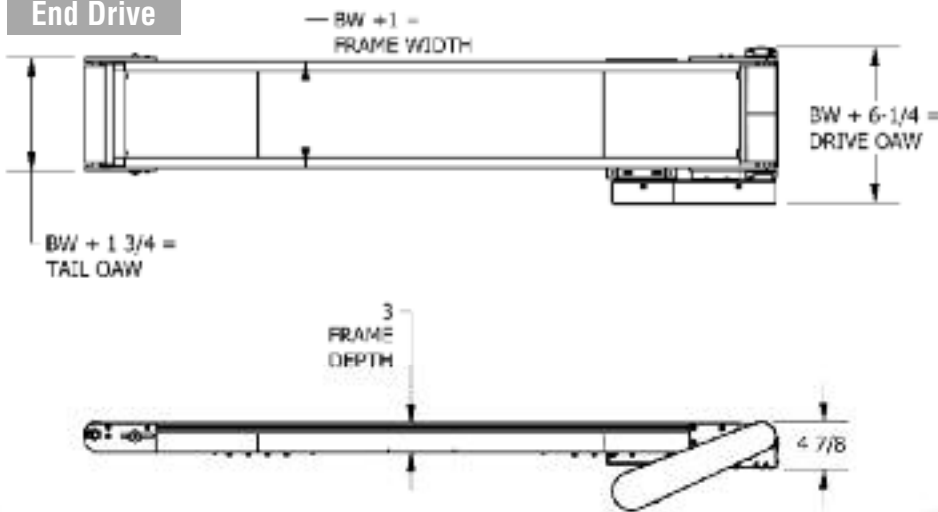
Size of typical competitor's drive bearing 1.57"OD (40mm)

Compare our AS series bearings and pulley configurations with our competitors. These are the most flexible, reliable and lowest priced automation conveyors on the market.

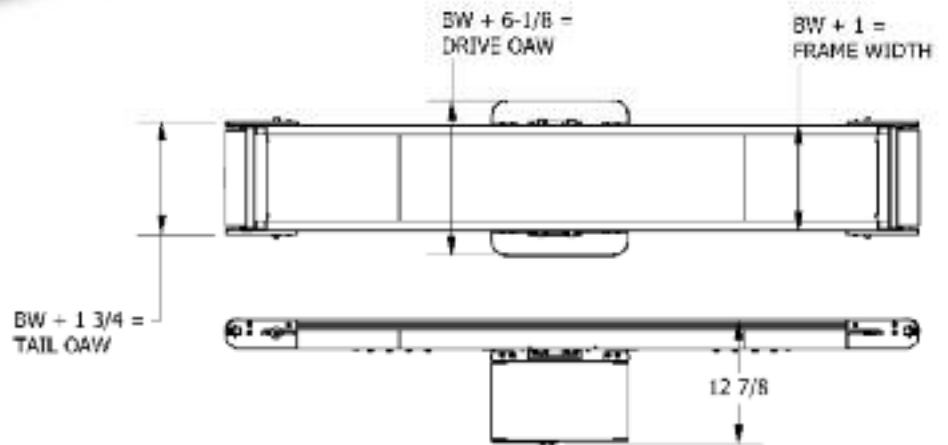
- **The Lowest Priced Automation Conveyors in the industry.**
- **100% accessible T-Slots.**
- **Replacement parts are available with same day or next day shipment.**
- **T-Slots are compatible with other modular framing companies such as Frame-World or 80/20®.**

\*CFRL – Crown Faced Rubber Lagged.

### End Drive



### Center Drive



### Shipping Weights – lbs.

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	18"	24"	30"
3 FT Lengths	83/103	92/112	101/121	110/130	119/139	128/148	137/157	146/166	173/193	200/230
10 FT Lengths	130/152	146/178	162/186	177/203	193/220	210/237	225/255	240/273	288/324	336/375
20 FT Lengths	196/220	222/250	248/280	272/307	298/336	325/365	350/395	375/425	452/510	530/596

(Weights are listed with end drives first/ followed by center drive weights.)

### Skid Widths – Inches

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	18"	24"	30"
Estimated Skid Width	24"	24"	24"	24"	26"	28"	30"	32"	38"	44"

### Skid Lengths

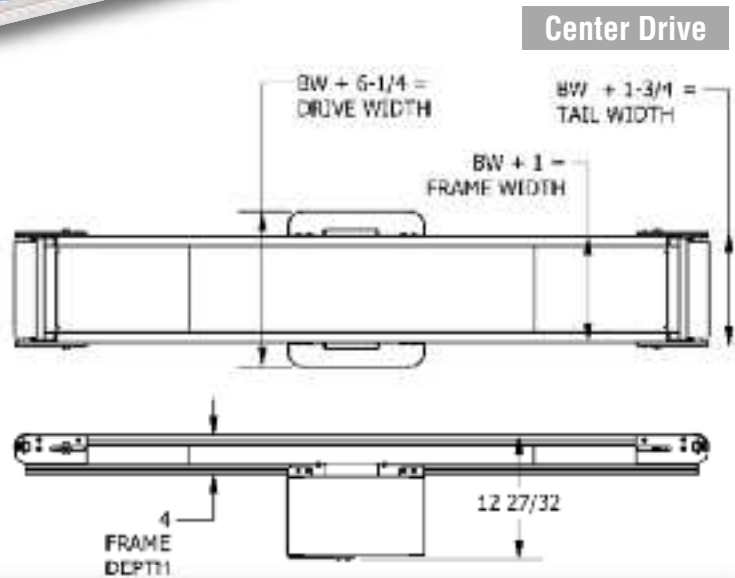
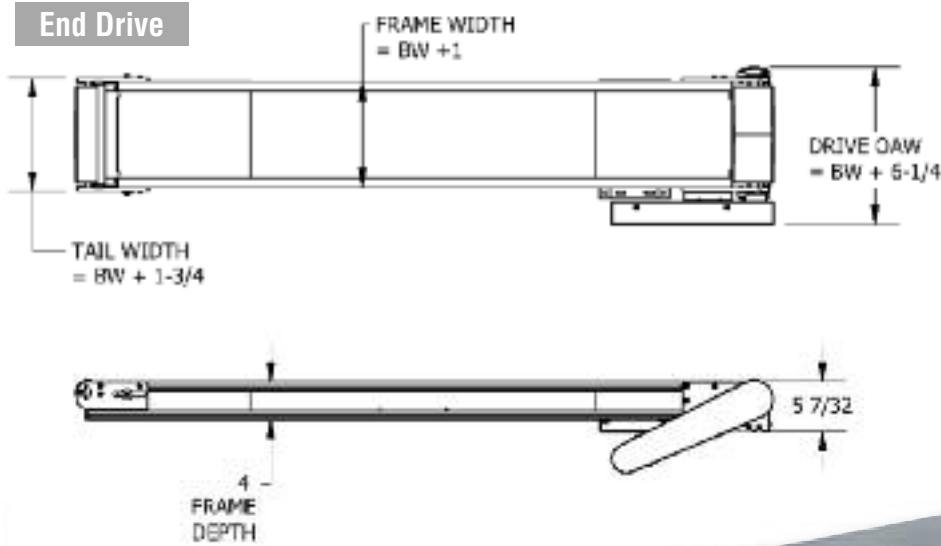
Conveyors less than 16' long | The skid length is conveyor length + 1'.

Conveyors greater than 16' long | The skid length is 17'. Long lengths are shipped in 16' long sections knocked down and stacked on one another.

These weights and dimensions are to calculate freight estimates only. Final dimensions and weights may vary.

Weights include standard drive only. Weights for items like supports, belts, crating and other options are not included.





### Shipping Weights – lbs.

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	18"	24"	30"
3 FT Lengths	85/108	98/118	108/128	118/238	128/138	138/158	148/168	158/178	188/208	218/248
10 FT Lengths	142/154	159/191	176/200	192/218	209/232	227/254	243/273	259/292	310/344	361/400
20 FT Lengths	216/242	245/273	272/304	297/322	324/372	352/302	389/423	404/454	484/542	565/631

(Weights are listed with end drives first/ followed by center drive weights.)

### Skid Widths – Inches

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	18"	24"	30"
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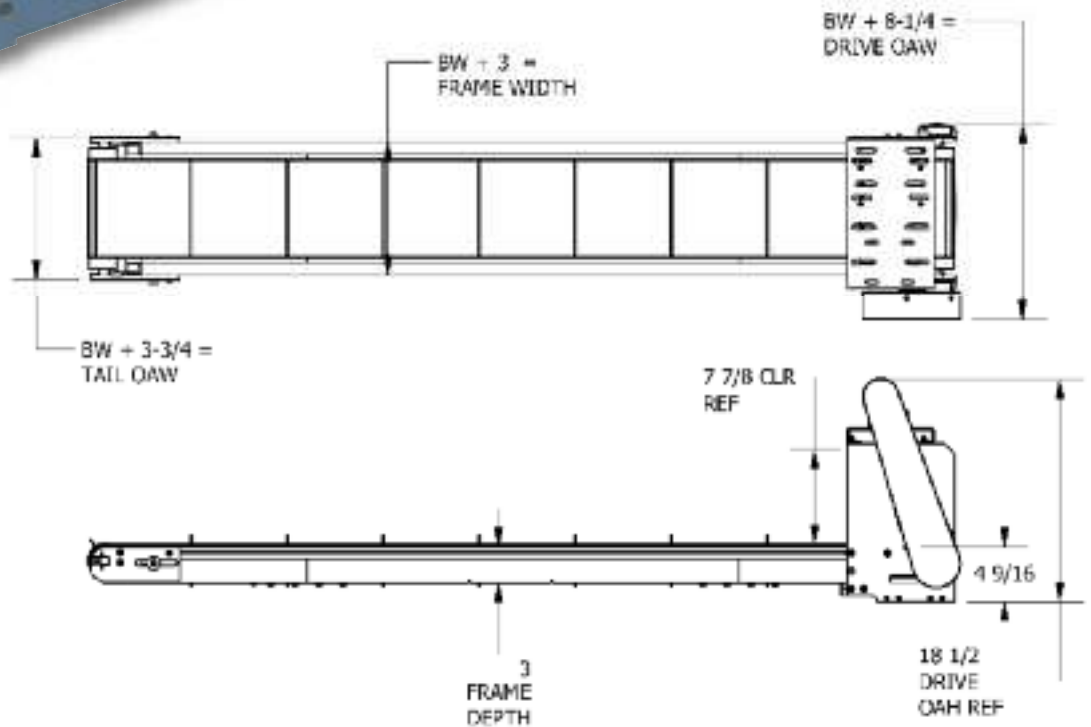
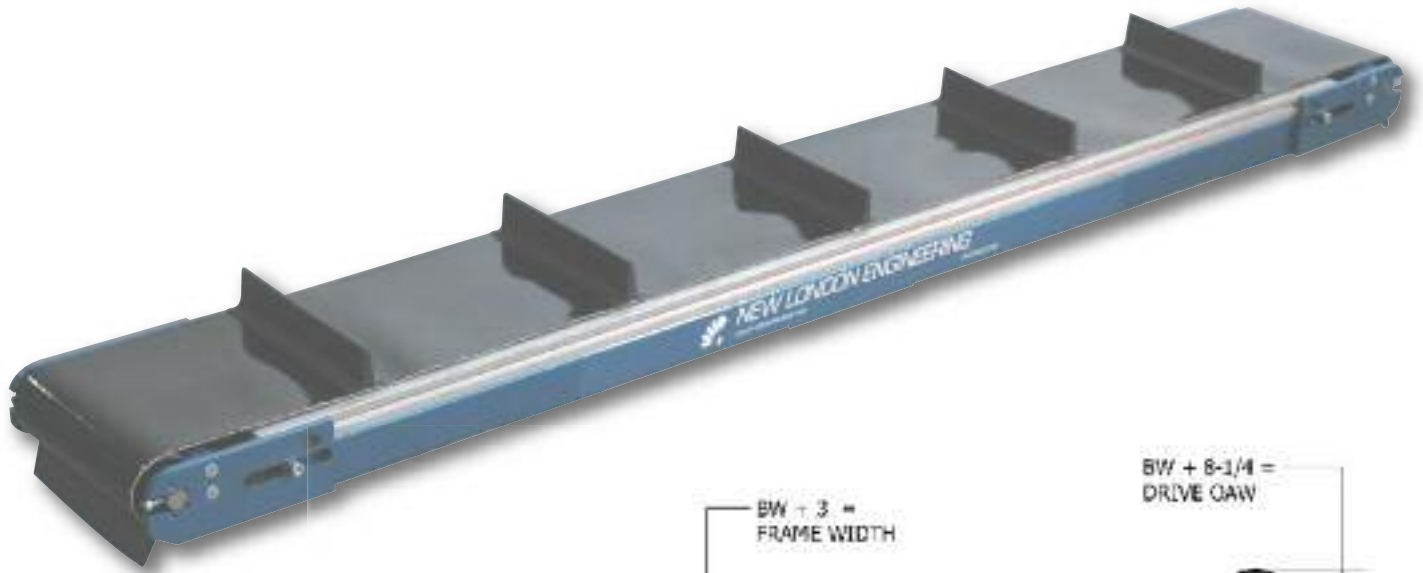
### Skid Lengths

Conveyors less than 16' long | The skid length is conveyor length + 1'.

Conveyors greater than 16' long | The skid length is 17'. Long lengths are shipped in 16' long sections knocked down and stacked on one another.

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## Shipping Weights – lbs.

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	22"	30"
3 FT Lengths	68	76	86	95	103	112	111	148	170
10 FT Lengths	121	137	152	168	185	200	215	263	325
20 FT Lengths	197	223	247	273	300	325	350	427	525

## Skid Widths – Inches

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	22"	30"
Estimated Skid Width	24"	24"	24"	26"	28"	30"	32"	38"	46"

## Skid Lengths

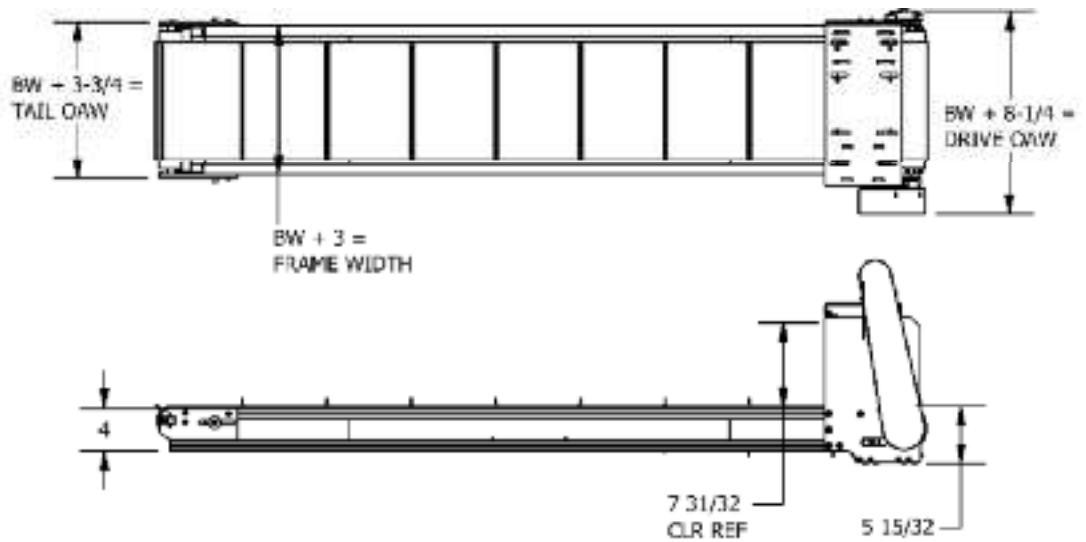
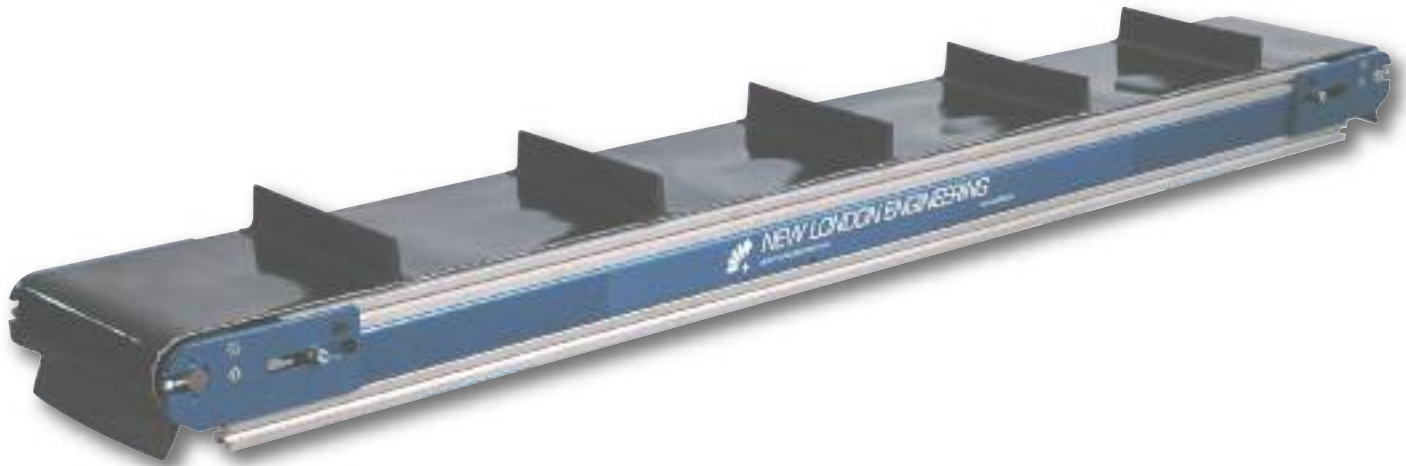
Conveyors less than 16' long | The skid length is conveyor length + 1'.

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**Shipping Weights – lbs.**

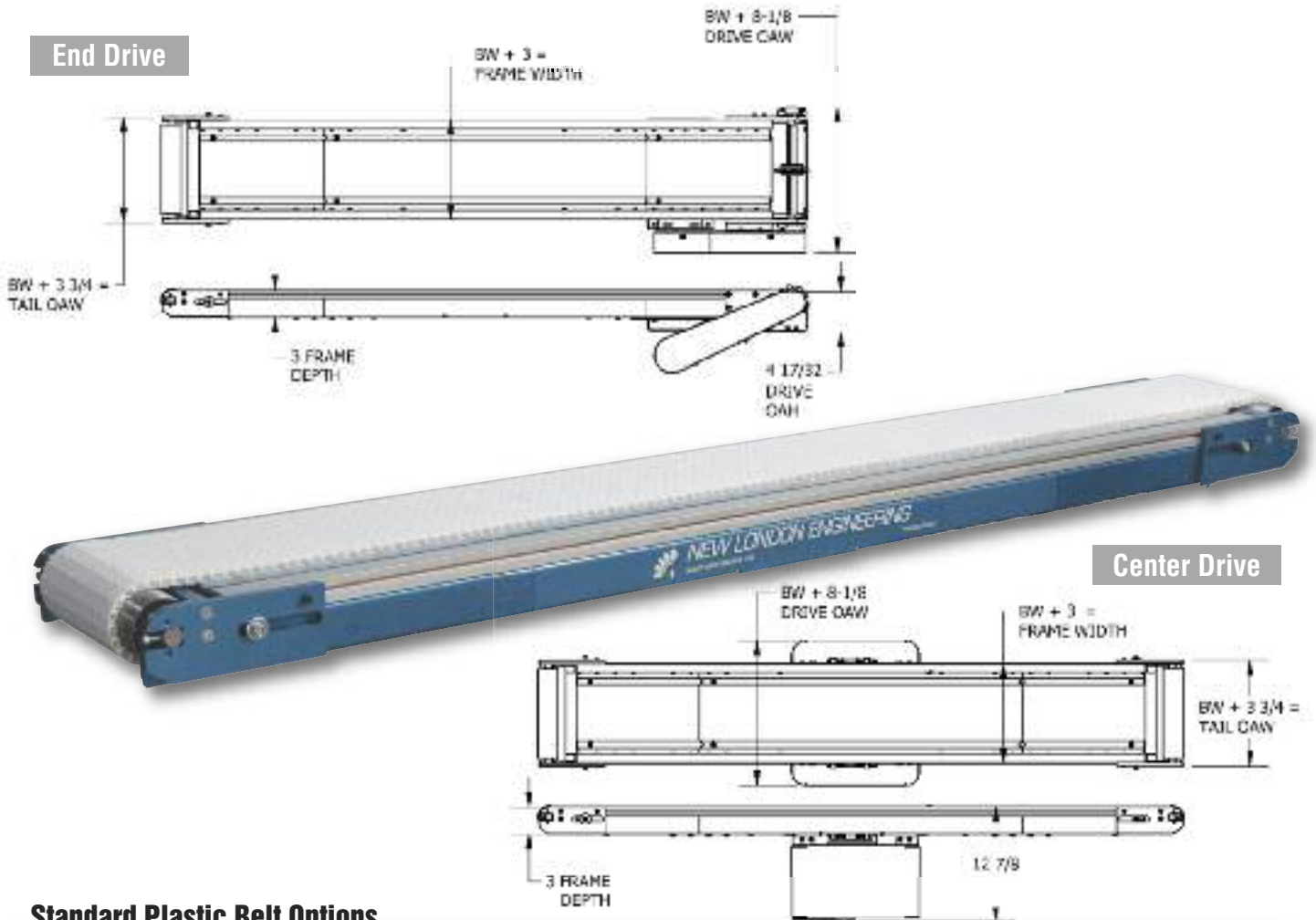
BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	22"	30"	36"
3 FT Lengths	72	81	90	101	110	120	129	158	193	228
10 FT Lengths	132	149	165	181	199	215	230	280	345	410
20 FT Lengths	218	245	270	296	324	350	375	454	555	656

**Skid Widths – Inches**

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	22"	30"	36"
Estimated Skid Width	24"	24"	24"	26"	28"	30"	32"	38"	46"	52"

**Skid Lengths**

Conveyors less than 16' long	The skid length is conveyor length + 1'.
Conveyors greater than 16' long	The skid length is 17'. Long lengths are shipped in 16' long sections knocked down and stacked on one another.
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Weights include standard drive only. Weights for items like supports, belts, crating and other options are not included.	



## Standard Plastic Belt Options



**1/2" Pitch  
Flat Top Belt**

- Made of food approved materials
- Available for temperature ranges of (-40 to 200) degrees F.
- Cleats (flights), lane dividers and sideguards are available.



**1/2" Pitch  
Flush Grid Belt**

## Shipping Weights – lbs.

BELT WIDTHS	2"	4"	6"	8"	10"	12"	14"	16"	22"	30"
3 FT Lengths	53/73	62/81	71/91	80/100	89/109	98/118	107/127	116/136	143/163	180/200
10 FT Lengths	100/122	116/148	132/156	147/177	163/190	180/207	195/225	210/243	258/294	325/362
20 FT Lengths	166/190	192/220	218/250	242/277	268/306	295/335	320/365	345/395	422/480	525/595

(Weights are listed with end drives first/ followed by center drive weights.)

## Skid Widths – Inches

BELT WIDTHS	2"	4"	6"	8"	10"	12"	14"	16"	22"	30"
Estimated Skid Width	24"	24"	24"	24"	26"	28"	30"	32"	38"	46"

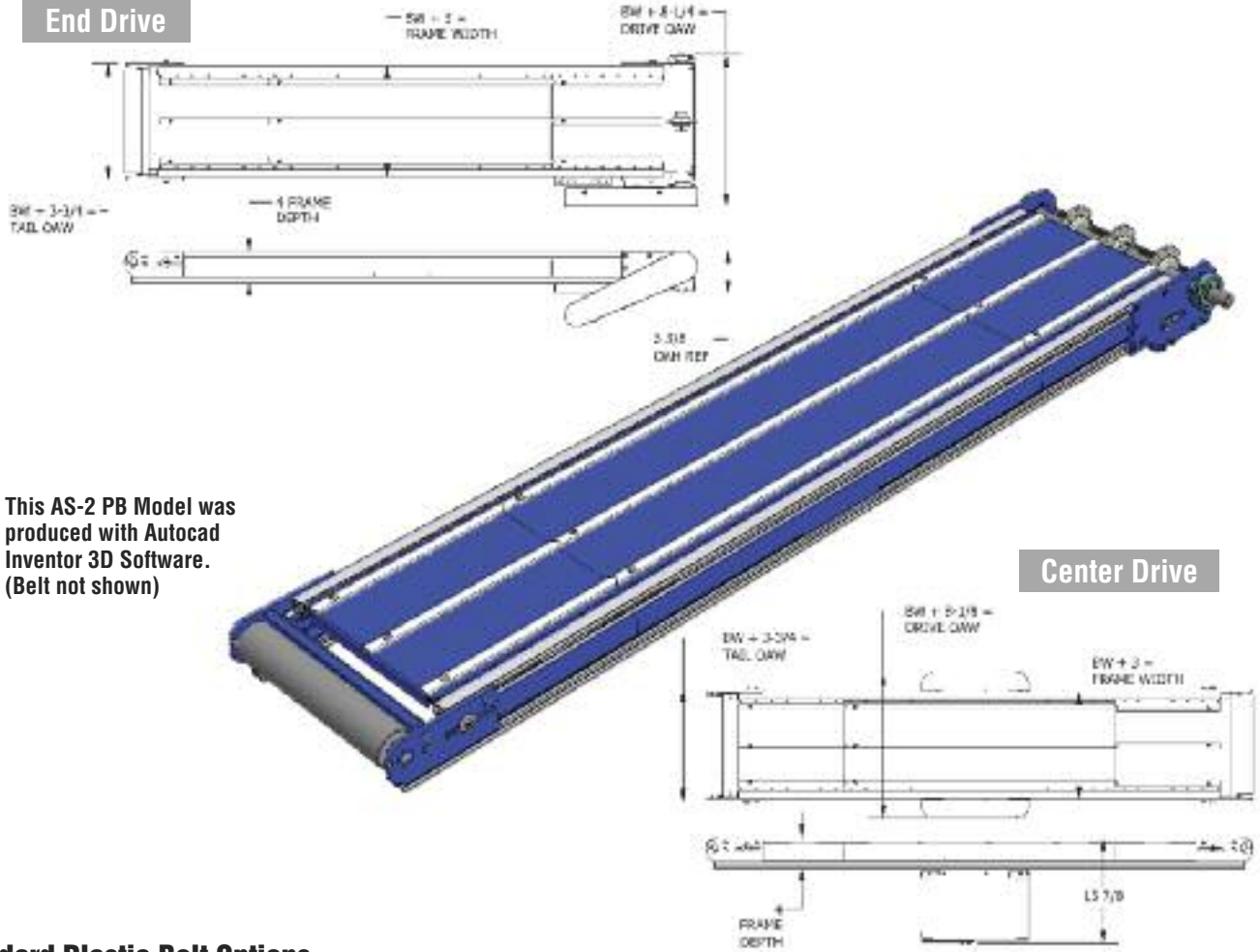
## Skid Lengths

Conveyors less than 16' long | The skid length is conveyor length + 1'.

Conveyors greater than 16' long | The skid length is 17'. Longer lengths are shipped in 16' long sections knocked down and stacked on one another.

These weights and dimensions are to calculate freight estimates only. Final dimensions and weights may vary.

Weights include standard drive only. Weights for items like supports, belts, crating and other options are not included.



This AS-2 PB Model was produced with Autocad Inventor 3D Software. (Belt not shown)

## Standard Plastic Belt Options



1/2" Pitch Flat Top Belt

- Belts are made of food approved materials
- Available for temperature ranges of (-40 to 200) degrees F.
- Cleats (flights), lane dividers and sideguards are available. (See page 12)



1/2" Pitch Flush Grid Belt

## Shipping Weights – lbs.

BELT WIDTHS	2"	4"	6"	8"	10"	12"	14"	16"	22"	30"
3 FT Lengths	57/77	66/85	76/96	86/106	95/115	105/123	115/135	124/144	153/173	203/213
10 FT Lengths	111/133	127/159	144/168	160/190	176/203	194/221	210/240	225/258	275/301	345/382
20 FT Lengths	187/211	213/241	240/272	235/300	291/329	319/359	345/390	370/420	459/507	555/625

(Weights are listed with end drives first/ followed by center drive weights.)

## Skid Widths – Inches

BELT WIDTHS	2"	4"	6"	8"	10"	12"	14"	16"	22"	30"
Estimated Skid Width	24"	24"	24"	24"	26"	28"	30"	32"	38"	46"

## Skid Lengths

Conveyors less than 16' long | The skid length is conveyor length + 1'.

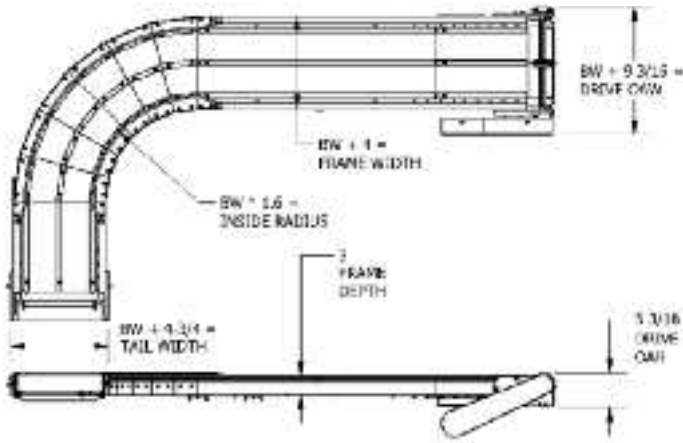
Conveyors greater than 16' long | The skid length is 17'. Long lengths are shipped in 16' long sections knocked down and stacked on one another.

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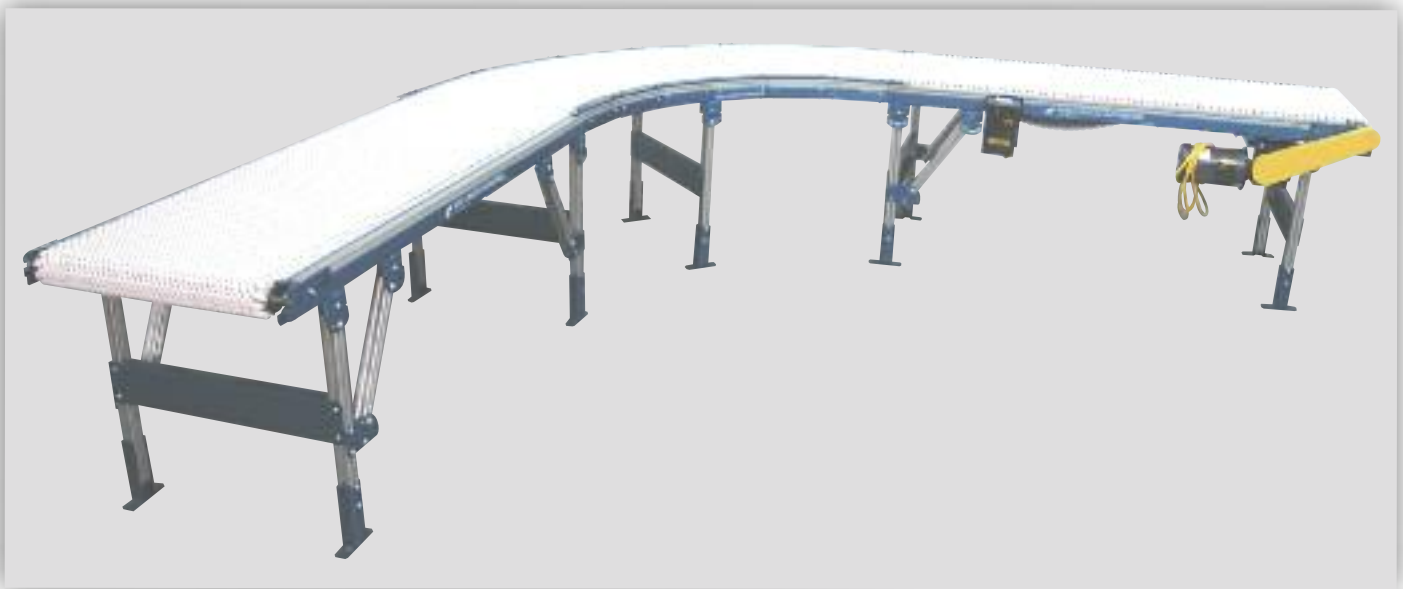
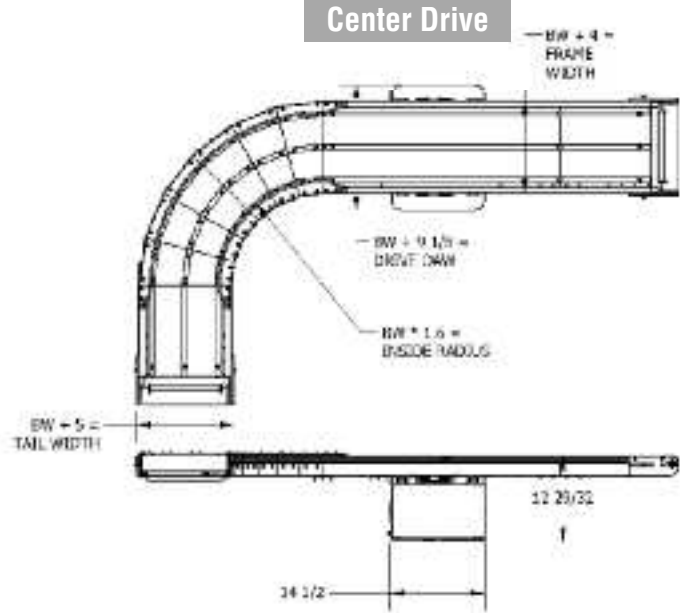
Weights include standard drive only. Weights for items like supports, belts, crating and other options are not included.



End Drive



Center Drive



## Shipping Weights – lbs.

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	18"	24"	30"
5 FT Lengths	127/152	165/198	190/226	213/255	237/283	261/311	285/340	285/340	358/425	430/510
10 FT Lengths	162/188	208/242	237/277	265/307	292/339	320/371	348/405	348/405	433/500	517/597
20 FT Lengths	232/258	293/330	330/370	365/410	401/450	437/490	475/530	475/530	581/650	690/770

(Weights are listed with end drives first/ followed by center drive weights.)

## Skid Widths – Inches

BELT WIDTHS	4"	6"	8"	10"	12"	14"	16"	18"	24"	30"
Estimated Skid Width	24"	24"	25"	27"	29"	31"	33"	35"	41"	47"

## Skid Lengths

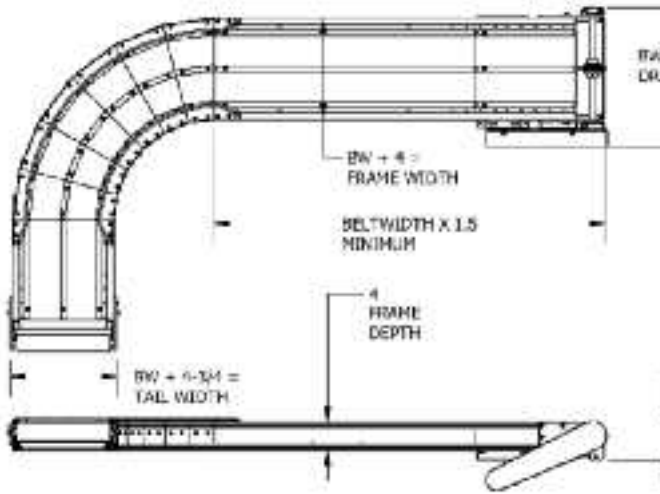
Conveyors less than 16' long | The skid length is conveyor length + 1'.

Conveyors greater than 16' long | The skid length is 17'. Longer lengths are shipped in 16' long sections knocked down and stacked on one another.

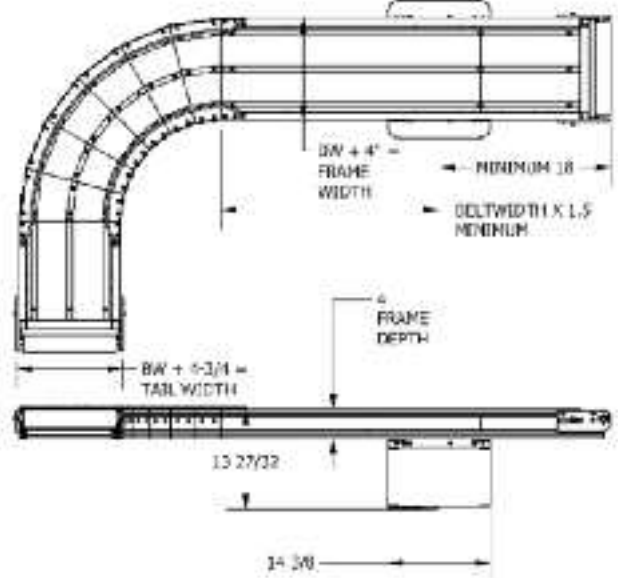
These weights and dimensions are to calculate freight estimates only. Final dimensions and weights may vary.

Weights include standard drive only. Weights for items like supports, belts, crating and other options are not included.

**End Drive**

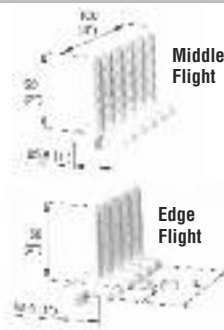


**Center Drive**

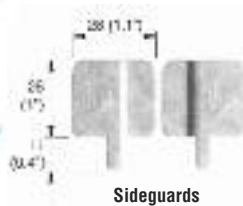


**Plastic Belt Options Radius Curves**

**Flights (Cleats)**



**Sideguards & Lane Dividers**



**Standard Radius Curve Belt**

**1" Pitch Radius Curve Belt**

- Excellent for cooling and draining applications
- Food approved materials
- Available for temperature ranges of (-40 to 200) degrees F
- Cleats (flights), lane dividers and sideguards are available.



**Shipping Weights – lbs.**

BELT WIDTHS	4"	8"	10"	12"	14"	16"	18"	24"	30"	36"
5 FT Lengths	127/152	165/198	190/226	213/255	237/283	261/311	285/340	358/425	430/510	502/595
10 FT Lengths	162/188	208/242	237/277	265/307	292/339	320/371	348/405	433/500	517/597	601/694
20 FT Lengths	232/258	293/330	330/370	365/410	410/450	437/490	475/530	581/650	690/770	799/890

(Weights are listed with end drives first/ followed by center drive weights.)

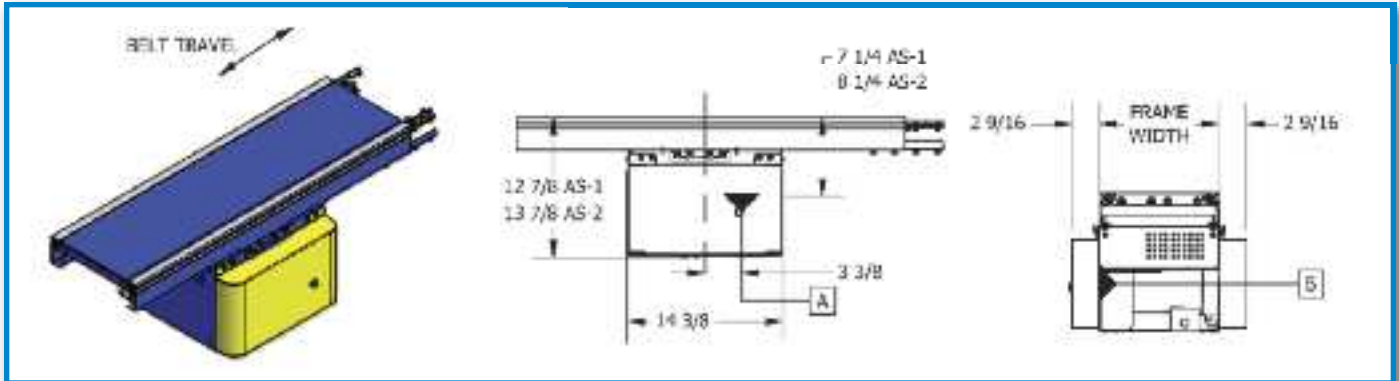
**Skid Widths – Inches**

BELT WIDTHS	4"	8"	10"	12"	14"	16"	18"	24"	30"	36"
Estimated Skid Width	24"	25"	27"	29"	31"	33"	35"	41"	47"	53"

**Skid Lengths**

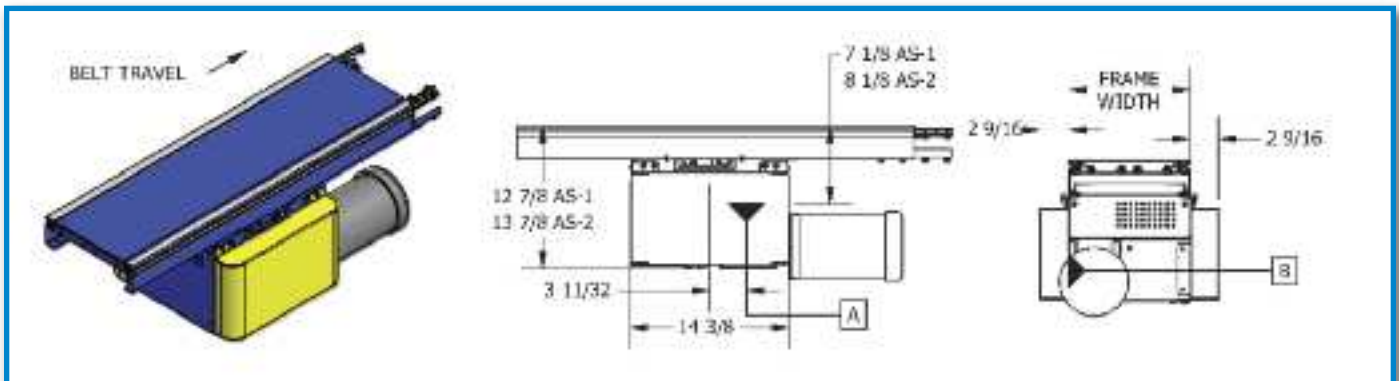
Conveyors less than 16' long	The skid length is conveyor length + 1'.
Conveyors greater than 16' long	The skid length is 17'. Lengths greater than 16' will be shipped knocked down and stacked on one another.

These weights and dimensions are to calculate freight estimates only. Final dimensions and weights may vary.  
Weights include standard drive only. Weights for items like supports, belts, crating and other options are not included.



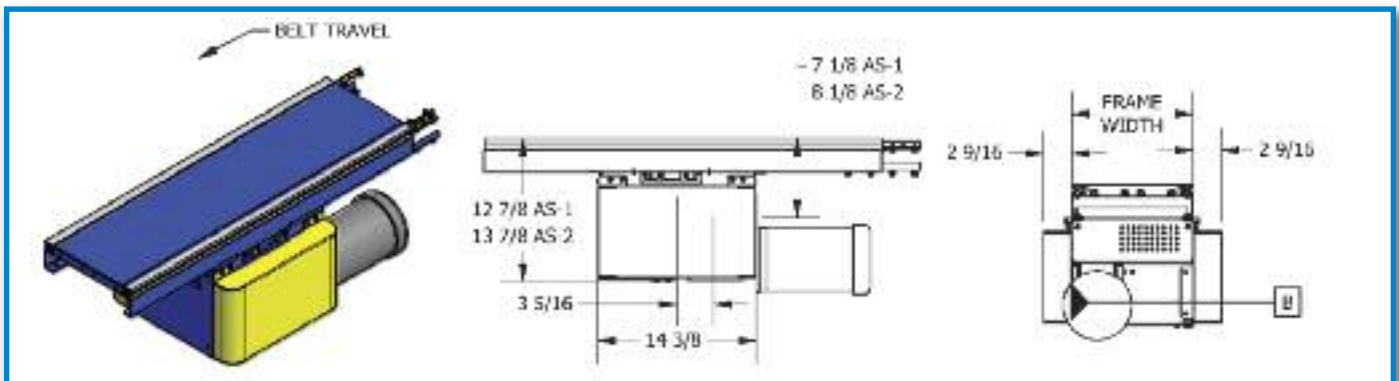
**DRIVE #1**

Center Drive • Bottom Mount • Inline • Under Belt



**DRIVE #17**

Center Drive • Bottom Mount • Right Angle • Discharge Facing



**DRIVE #18**


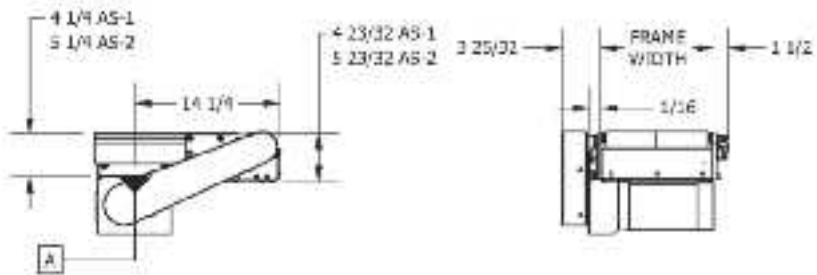
Center Drive • Bottom Mount • Right Angle • Infeed Facing



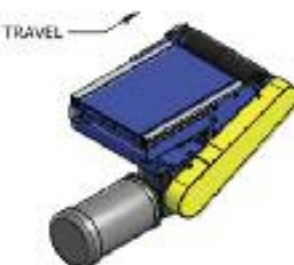
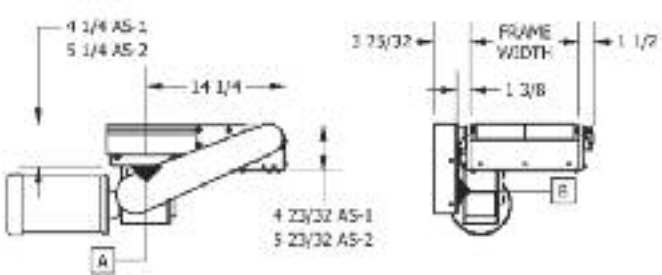
Quality Conveyors Since 1948

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 800-437-1994 • 920-982-4030 • fax: 920-982-6800 • www.nleco.com

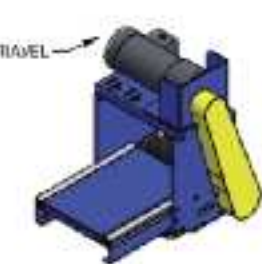
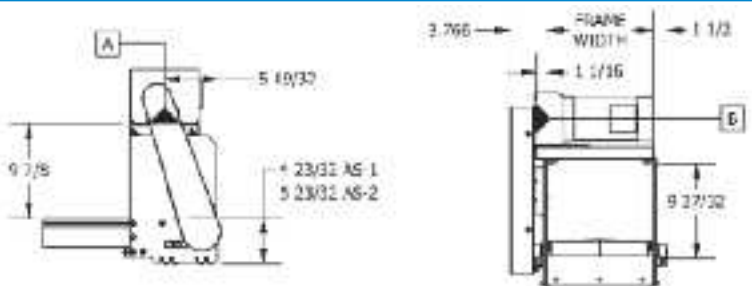


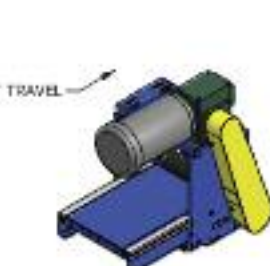
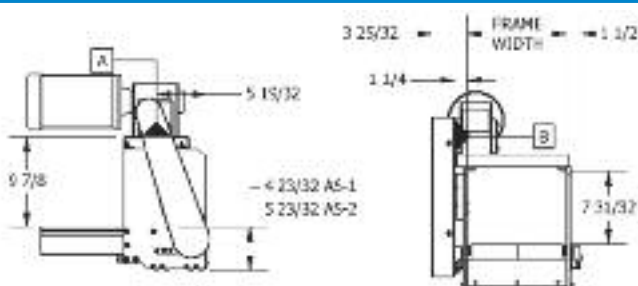
**DRIVE #7**      End Drive • Bottom Mount • Inline • Under Belt

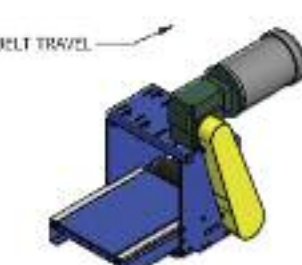
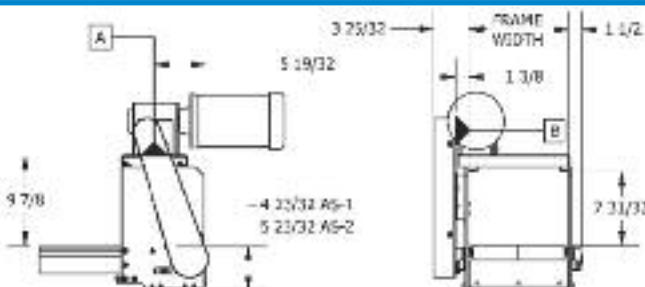
**DRIVE #8**      End Drive • Bottom Mount • Right Angle • Infeed Facing

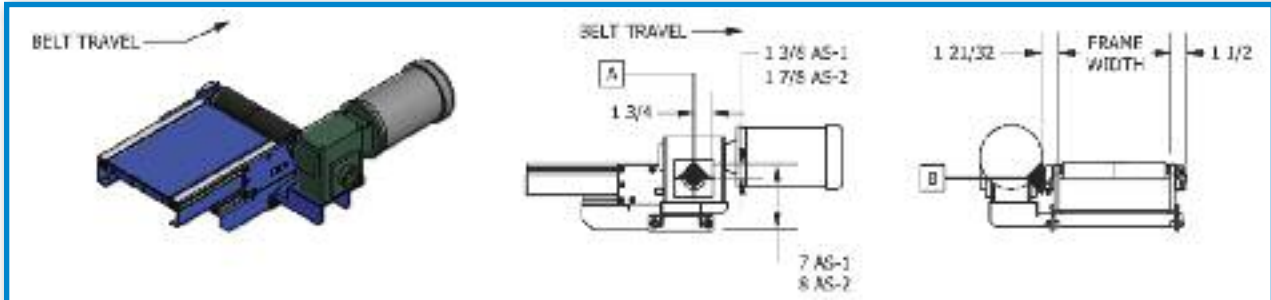
**DRIVE #9**      End Drive • Top Mount • Inline • Over Belt

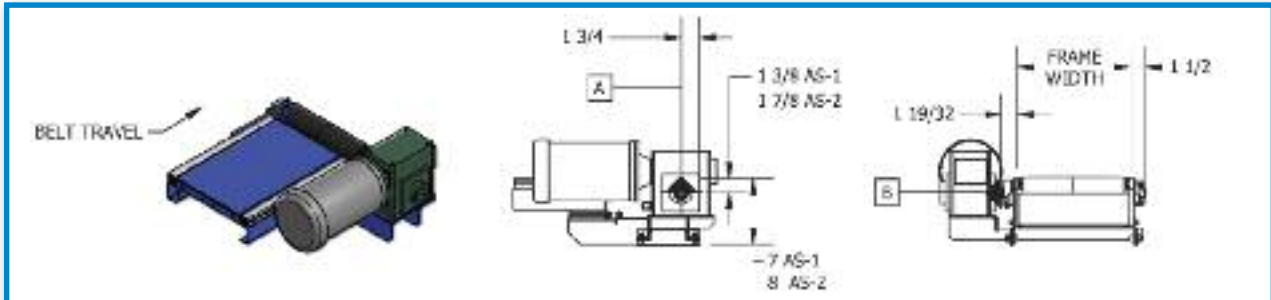
**DRIVE #10**      End Drive • Top Mount • Right Angle • Infeed Facing

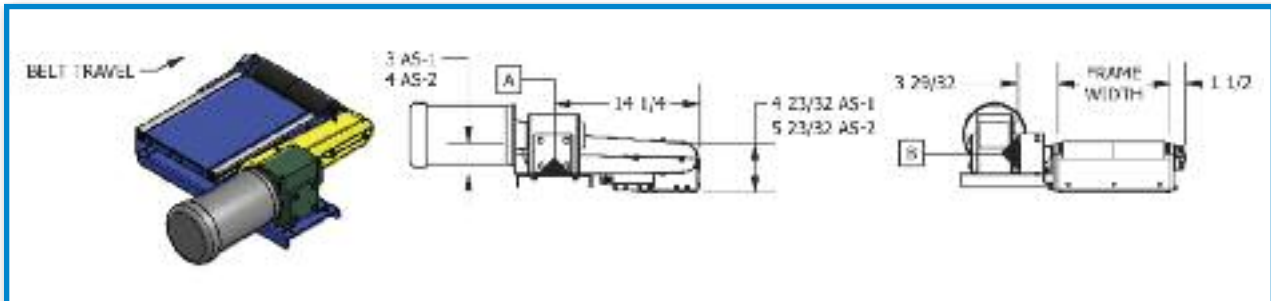
**DRIVE #12**      End Drive • Top Mount • Right Angle • Discharge Facing



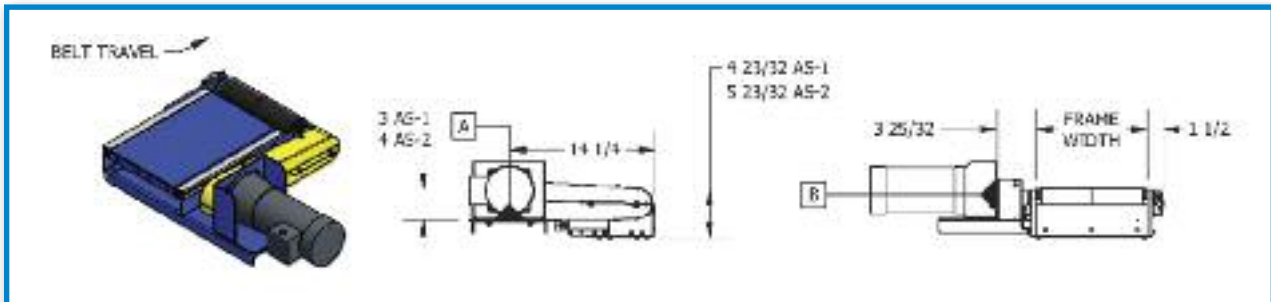
**DRIVE #14** End Drive • Shaft Mount • Right Angle • Discharge Facing



**DRIVE #15** End Drive • Shaft Mount • Right Angle • Infeed Facing



**DRIVE #26** End Drive • Side Mount • Right Angle • Infeed Facing



**DRIVE #29** End Drive • Side Mount • Inline • Side Facing

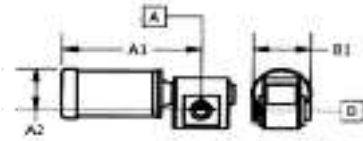


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# Shaft Mounted Motors

## Standard Speed Options & Dimensions Drive #'s 14 & 15



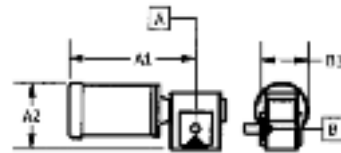
HP	GEARMOTOR OR REDUCER RATIO	AS-1		AS-2		DIMENSIONS (INCHES)			MOTOR WT. #	RPM	TORQUE
		FPM	MAX. LOAD*	FPM	MAX. LOAD*	A1	A2	B1			
<b>1 PHASE 115/230/1/60</b>											
.33	80:1 REDUCER	17	550	22	625	13.75	5.16	8.19	55	22	593
.5	GEARMOTOR	22	550	30	630	12.95	5.07	6.84	45	29	600
.5	50:1 REDUCER	27	550	37	675	14.37	5.16	8.19	56	35	640
.5	40:1 REDUCER	35	550	45	515	14	4.85	7.94	56	43	490
.75	40:1 REDUCER	35	550	45	840	14.87	5.16	8.19	59	43	800
1	GEARMOTOR	45	550	60	790	15.14	5.55	7.67	55	58	750
.5	20:1 REDUCER	67	395	90	315	14	4.85	7.94	56	86	300
.75	20:1 REDUCER	67	550	90	475	15.24	4.85	7.94	59	86	450
.5	GEARMOTOR	70	325	92	265	12.95	5.07	6.84	45	88	250
1	GEARMOTOR	70	550	92	580	15.12	5.55	7.67	55	88	550
1	10:1 REDUCER	135	210	180	170	14	4.85	7.94	56	173	162
.5	GEARMOTOR	135	195	180	160	12.95	5.07	6.84	45	173	150
1	10:1 REDUCER	135	425	180	340	15.28	5.35	8.48	60	173	324
1.5	10:1 REDUCER	135	550	180	510	16.15	5.35	8.49	67	173	486
.5	5:1 REDUCER	270	110	362	85	14	4.85	7.94	56	345	83
.75	5:1 REDUCER	270	165	362	130	15.24	4.85	7.94	59	345	124
1.5	5:1 REDUCER	270	325	362	260	16.15	5.35	8.49	67	345	249
<b>3 PHASE 230/460/3/60</b>											
.33	80:1 REDUCER	17	550	22	625	13.75	5.16	8.19	55	22	593
.5	60:1 REDUCER	22	550	30	745	13.75	5.16	8.19	56	29	709
.5	208-230 GEARMOTOR	22	550	30	630	13.23	5.07	6.84	40	29	600
.5	50:1 REDUCER	27	550	37	675	13.75	5.16	8.19	56	35	640
.5	40:1 REDUCER	35	550	45	515	13.38	4.85	7.94	56	43	490
.75	40:1 REDUCER	35	550	45	840	13.75	5.16	8.19	59	43	800
1	208-230 GEARMOTOR	45	550	60	790	13.84	5.07	7.1	45	58	750
.5	20:1 REDUCER	67	395	90	315	13.38	4.85	7.94	56	86	300
1	20:1 REDUCER	67	550	90	640	14.4	5.16	8.19	60	86	608
1	208-230 GEARMOTOR	70	550	92	580	13.84	5.07	7.1	45	88	550
.5	10:1 REDUCER	135	210	180	170	13.38	4.85	7.94	56	173	162
.75	10:1 REDUCER	135	320	180	255	13.38	4.85	7.94	59	173	243
1	208-230 GEARMOTOR	135	395	180	315	13.84	5.07	7.1	45	173	300
1.5	10:1 REDUCER	135	550	180	510	14.25	5.35	8.48	67	173	486
2	10:1 REDUCER	135	550	180	680	15.25	5.35	8.48	77	173	648
.5	5:1 REDUCER	270	110	362	85	13.38	4.85	7.94	56	345	83
.75	5:1 REDUCER	270	165	362	130	13.38	4.85	7.94	59	345	124
1.5	5:1 REDUCER	270	325	362	260	14.25	5.35	8.48	67	345	249
2	5:1 REDUCER	270	435	362	350	15.25	5.35	8.48	77	345	332
<b>90 VOLT DC</b>											
.125	GEARMOTOR	5	500	7	400	9.24	2.23	3.34	14	6.2	380
.125	GEARMOTOR	7	470	10	375	9.24	2.23	3.34	14	9.1	358
.33	80:1 REDUCER	17	550	22	625	14.65	7.14	5.91	60	22	593
.125	GEARMOTOR	22	200	30	160	9.24	2.23	3.34	14	29	151
.33	60:1 REDUCER	22	550	30	485	14.28	6.83	5.66	60	29	460
.5	60:1 REDUCER	22	550	30	745	15.59	7.14	5.91	65	29	709
.5	50:1 REDUCER	27	550	37	675	15.59	7.14	5.91	65	35	640
.5	40:1 REDUCER	35	550	45	515	15.22	6.83	5.66	65	43	490
.75	40:1 REDUCER	35	550	45	840	16.99	6.06	6.1	71	43	800
.5	20:1 REDUCER	67	395	90	315	15.22	6.83	5.66	65	86	300
1	20:1 REDUCER	67	550	90	640	17.86	6.06	6.1	77	86	608
.125	GEARMOTOR	135	40	180	35	8.04	3.31	3.27	10	173	31
.5	10:1 REDUCER	135	210	180	170	15.22	6.83	5.66	65	173	162
1	10:1 REDUCER	135	425	180	340	17.49	5.75	5.85	77	173	324
.5	5:1 REDUCER	270	110	362	85	15.22	6.83	5.66	65	345	83
1	5:1 REDUCER	270	215	362	175	17.49	5.75	5.85	77	345	166

Open this page for a full view of all drive frequencies



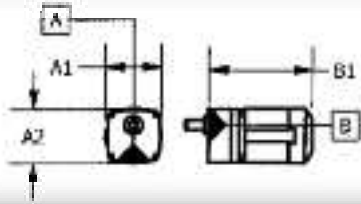
# Right Angle

## Standard Speed Options & Dimensions Drive #'s 8, 10, 12, 17, 18, 26



HP	GEARMOTOR OR REDUCER RATIO	AS-1		AS-2		DIMENSIONS (INCHES)			MOTOR WT. #	RPM	TORQUE
		FPM	MAX. LOAD*	FPM	MAX. LOAD*	A1	A2	B1			
<b>1 PHASE 115/230/1/60</b>											
.111	GEARMOTOR	17	135	25	105	8.537	535	3.84	12	23	102
.083	GEARMOTOR	22	100	30	80	7.29	5.32	4.39	10	29	75
.5	60:1 REDUCER	22	550	30	745	14.37	7.47	9.53	53	29	709
.125	GEARMOTOR	27	165	37	130	9.54	5.85	7	16	35	125
.5	50:1 REDUCER	27	550	37	675	14.4	7.47	9.53	53	35	640
.5	40:1 REDUCER	35	550	45	515	14	6.91	9.94	53	43	490
.75	40:1 REDUCER	35	550	45	840	14.9	9.53	9.53	56	43	800
.167	GEARMOTOR	35	170	45	135	8.76	5.49	5.29	15	44	130
.125	GEARMOTOR	40	130	52	105	9.54	5.85	7	16	50	100
.167	GEARMOTOR	65	100	85	80	8.76	5.49	5.29	15	82	75
.5	20:1 REDUCER	67	395	90	315	14	6.91	9.94	53	86	300
1	20:1 REDUCER	67	550	90	630	15.65	9.92	10.1	57	86	600
.167	GEARMOTOR	135	55	180	45	8.76	5.49	5.29	15	173	43
.5	10:1 REDUCER	135	210	180	170	14	6.91	9.94	53	173	162
.75	10:1 REDUCER	135	220	180	255	14.5	8.97	9.94	56	173	243
1.5	10:1 REDUCER	135	550	180	510	16.15	9.36	10.3	64	173	486
.5	5:1 REDUCER	270	110	362	85	14	6.91	9.94	53	345	83
.75	5:1 REDUCER	270	165	362	130	14.5	8.97	9.94	56	345	125
1.5	5:1 REDUCER	270	325	362	260	16.15	9.36	10.3	64	345	249
<b>3 PHASE 230/460/3/60</b>											
.33	80:1 REDUCER	17	550	22	625	13.75	7.47	9.53	52	22	593
.375	GEARMOTOR	17	160	25	125	8.86	5.72	4.21	18	23	121
.33	60:1 REDUCER	22	550	30	485	13.38	6.91	9.94	52	29	460
.5	60:1 REDUCER	22	550	30	745	13.75	7.47	9.53	53	29	709
.167	GEARMOTOR	27	165	37	130	8.26	5.74	6.98	16	35	125
.33	50:1 REDUCER	27	535	37	430	13.38	6.91	9.94	52	35	407
.5	40:1 REDUCER	27	550	37	675	13.75	7.47	9.53	53	35	640
.33	40:1 REDUCER	35	450	45	360	13.38	6.91	9.94	52	43	342
.5	40:1 REDUCER	35	550	45	515	13.38	6.91	9.94	53	43	490
.75	40:1 REDUCER	35	550	45	840	13.75	7.47	9.53	56	43	800
.4	GEARMOTOR	35	365	45	295	11.88	6.23	7.16	35	44	280
.4	GEARMOTOR	70	260	92	210	11.88	6.23	5.66	35	88	200
.375	GEARMOTOR	135	130	180	105	8.86	5.72	4.21	18	173	101
.5	10:1 REDUCER	135	210	180	170	13.38	6.91	9.94	53	173	162
.75	10:1 REDUCER	135	320	180	255	13.38	6.91	9.94	56	173	243
1	10:1 REDUCER	135	425	180	340	14.03	6.91	9.93	57	173	324
1.5	10:1 REDUCER	135	550	180	510	14.25	7.41	10.5	64	173	486
2	10:1 REDUCER	135	550	180	680	15.25	7.41	10.5	74	173	648
.33	5:1 REDUCER	270	70	362	60	13.38	6.91	9.94	52	345	55
.375	GEARMOTOR	270	70	362	55	8.86	5.72	4.21	18	345	54
.5	5:1 REDUCER	270	110	362	85	13.38	6.91	9.94	53	345	83
.75	5:1 REDUCER	270	165	362	130	13.38	6.91	9.94	56	345	124
1	5:1 REDUCER	270	215	362	175	14.03	6.91	9.93	57	345	166
1.5	5:1 REDUCER	270	325	362	260	14.25	7.41	10.5	64	345	249
2	5:1 REDUCER	270	435	362	350	15.25	7.41	10.5	74	345	332
<b>90 VOLT DC</b>											
.33	80:1 REDUCER	17	550	22	625	14.65	9.45	7.59	57	22	593
.125	GEARMOTOR	22	100	30	80	8.64	5.32	4.75	14	29	75
.33	60:1 REDUCER	22	550	30	485	14.28	8.89	7.99	57	29	460
.5	60:1 REDUCER	22	550	30	745	15.59	9.45	7.59	62	29	709
.33	50:1 REDUCER	27	535	37	430	14.28	8.89	7.99	57	35	407
.5	50:1 REDUCER	27	550	37	675	15.59	9.45	7.59	62	35	640
.33	40:1 REDUCER	35	450	45	360	14.28	8.89	7.99	57	43	342
.5	40:1 REDUCER	35	550	45	515	15.22	8.89	7.99	62	43	490
.75	40:1 REDUCER	35	550	45	840	16.99	8.37	7.44	68	43	800
.167	GEARMOTOR	35	175	45	140	9.13	4.96	3.43	10	44	135
.5	GEARMOTOR	45	280	60	225	12.72	8.71	4.18	35	58	215
.25	GEARMOTOR	60	130	80	105	9.14	5.32	7.75	14	76	100

HP	GEARMOTOR OR REDUCER RATIO	AS-1		AS-2		DIMENSIONS (INCHES)			MOTOR WT. #	RPM	TORQUE
		FPM	MAX. LOAD*	FPM	MAX. LOAD*	A1	A2	B1			
<b>90 VOLT DC (continued)</b>											
.33	20:1 REDUCER	67	260	90	205	14.28	8.89	7.99	57	86	197
.5	20:1 REDUCER	67	395	90	315	15.22	8.89	7.99	62	86	300
.75	20:1 REDUCER	67	550	90	475	16.62	7.81	7.65	68	86	450
1	20:1 REDUCER	67	550	90	640	17.86	8.37	7.44	74	86	608
.5	GEARMOTOR	97	190	130	150	12.72	8.71	4.76	35	125	145
.083	GEARMOTOR	135	30	180	25	7.89	4.96	3.43	10	173	22
.33	10:1 REDUCER	135	140	180	110	14.28	8.89	7.99	57	173	107
.5	10:1 REDUCER	135	210	180	170	15.22	8.89	7.99	62	173	162
.75	10:1 REDUCER	135	45	180	35	16.62	7.81	7.65	68	173	33
1	10:1 REDUCER	135	250	180	200	17.49	7.81	7.65	74	173	190
.167	GEARMOTOR	270	30	362	25	9.13	4.96	3.43	10	345	24
.33	5:1 REDUCER	270	70	362	60	14.28	8.89	7.99	57	345	55
.5	5:1 REDUCER	270	110	362	85	15.22	8.89	7.99	62	345	83
.75	5:1 REDUCER	270	165	362	130	16.62	7.81	7.65	68	345	124
1	5:1 REDUCER	270	215	362	175	17.49	7.81	7.65	74	345	166



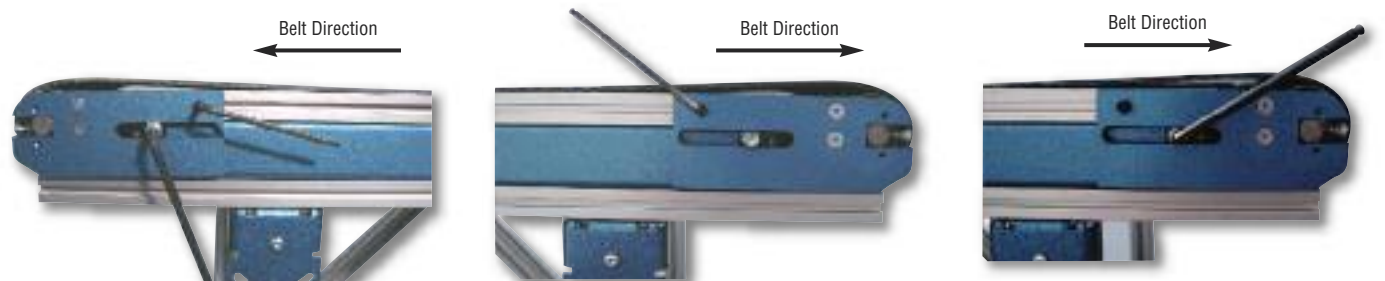
## Inline

### Standard Speed Options & Dimensions Drive #'s 1, 7, 9, 29

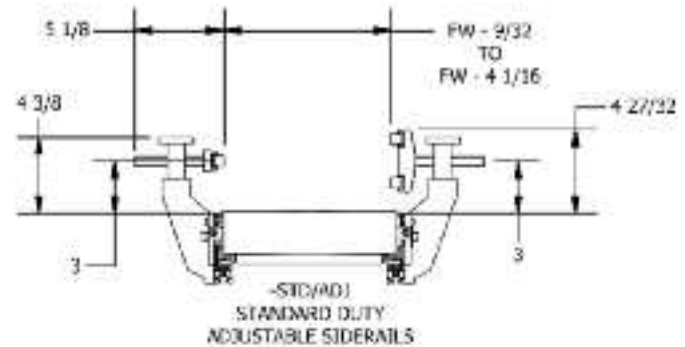
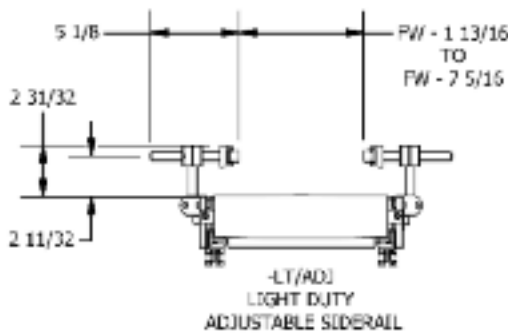
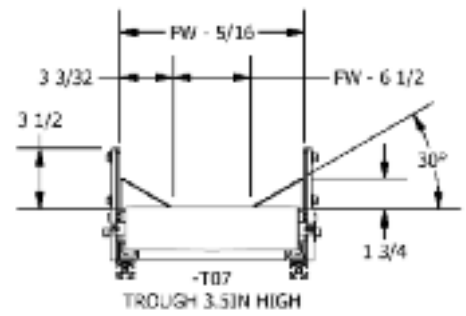
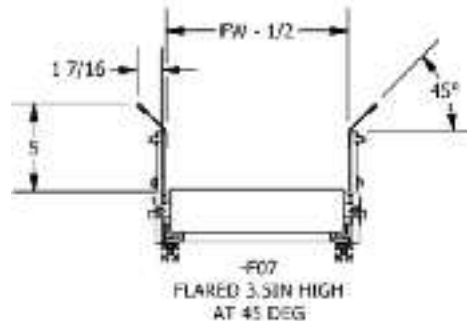
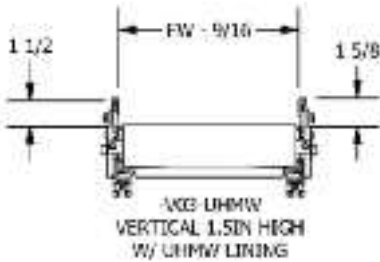
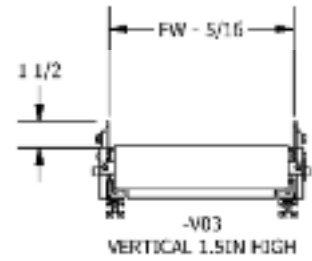
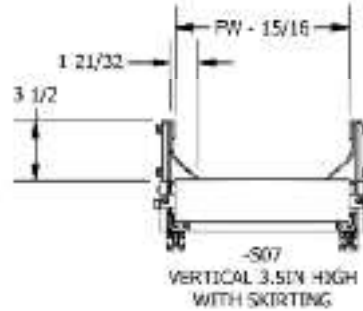
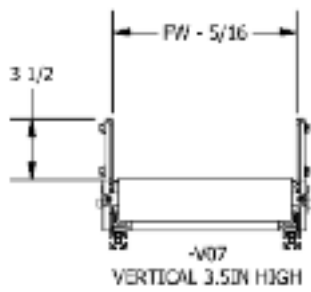
HP	GEARMOTOR OR REDUCER RATIO	AS-1		AS-2		DIMENSIONS (INCHES)			MOTOR WT. #	RPM	TORQUE
		FPM	MAX. LOAD*	FPM	MAX. LOAD*	A1	A2	B1			
<b>1 PHASE 115/230/1/60</b>											
.125	GEARMOTOR	17	355	25	285	6.280	4.87	10.8	18	23	270
.167	GEARMOTOR	22	355	30	285	4.64	4.64	9.13	15	29	270
.5	GEARMOTOR	45	550	60	510	9.19	6.28	12.9	25	58	484
.5	GEARMOTOR	70	425	92	345	9.19	6.28	12.9	25	88	326
.5	GEARMOTOR	135	215	180	170	9.19	6.28	12.9	25	173	164
.33	GEARMOTOR	270	70	362	60	7.05	6.35	12.9	15	345	55
<b>3 PHASE 230/460/3/60</b>											
.167	GEARMOTOR	7	445	10	360	4.67	4.67	8.11	11	9.4	341
.167	GEARMOTOR	22	355	30	285	4.67	4.67	8.11	12	29	270
.167	GEARMOTOR	45	125	60	100	4.04	4.04	8.35	17	57	96
.33	GEARMOTOR	45	420	60	335	7.05	4.87	11.9	17	58	320
.33	GEARMOTOR	70	285	92	230	7.05	4.87	11.9	17	88	218
.5	GEARMOTOR	135	215	180	170	7.05	4.87	11.9	17	173	164
.375	GEARMOTOR	270	75	362	60	4.54	4.64	9.57	24	345	58
<b>90 VOLT DC</b>											
.125	GEARMOTOR	22	295	30	240	4.64	4.64	9.06	11	29	226
.125	GEARMOTOR	35	230	45	185	4.10	4.17	8.37	12	44	174
.25	GEARMOTOR	45	290	60	230	4.87	4.87	10.3	17	58	220
.25	GEARMOTOR	70	205	92	165	4.87	4.87	10.3	17	88	155
.25	GEARMOTOR	135	90	180	75	4.87	4.87	9.42	17	173	70
.25	GEARMOTOR	197	65	262	55	4.87	4.87	9.42	17	250	50
.33	GEARMOTOR	270	70	362	60	4.87	6.42	12.8	24	345	55

\*Maximum load weights are based on a 12" wide x 10' long, straight running conveyor.

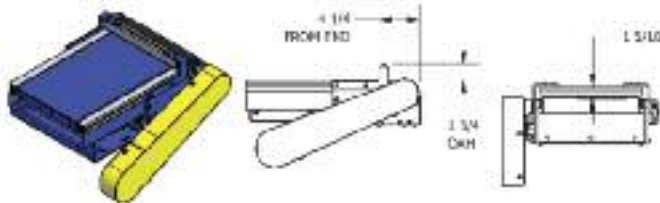
## New London Engineering Rack & Pinion Belt Tension and Belt Take Up Instructions



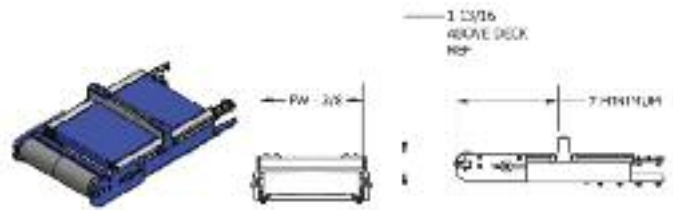
1. Loosen the 3/16" and 1/4" head bolts on the conveyor right side.
2. Loosen the black 3/16" head bolt on the left side.
3. Loosen or tighten the belt via the silver 1/4" head bolt on the left side then re-tighten all bolts.



### End Drive, End Stop

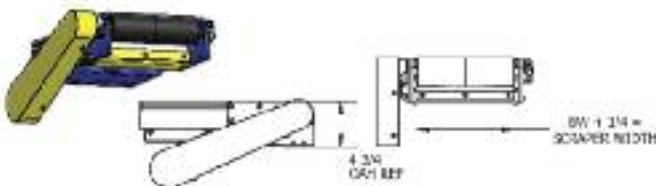


### Adjustable Stop



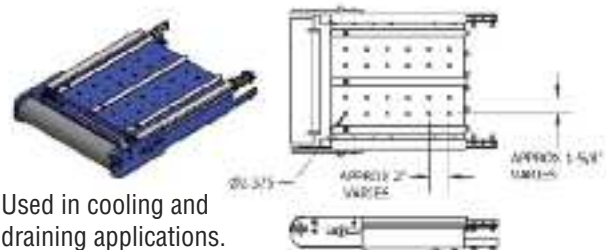
- The adjustable stop slides on the T-slots.

### Bottom Belt Wiper



- A belt wiper removes debris and scrap from the belt.

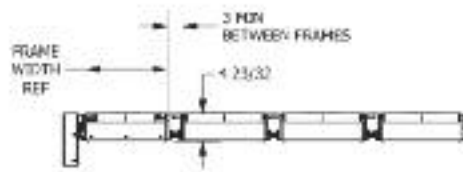
### Holes on Top of Frame



- Used in cooling and draining applications.

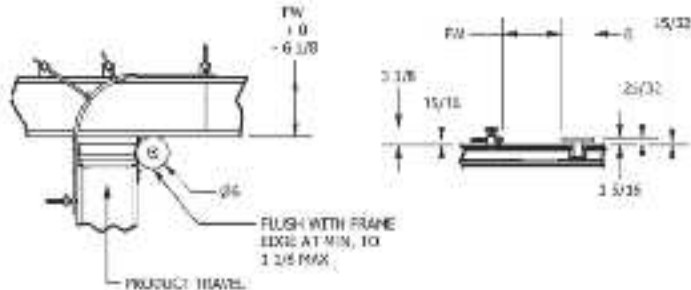
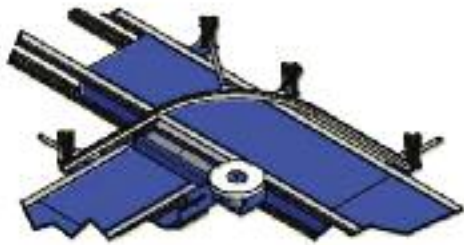


## Common Drive



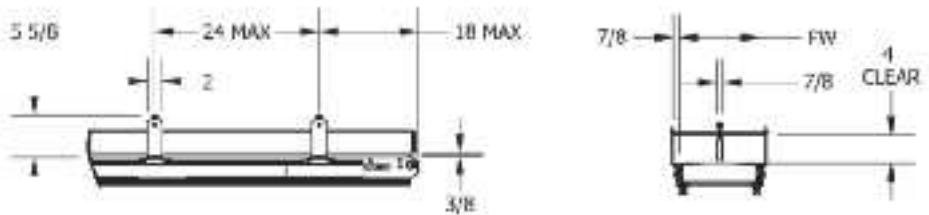
- Available in bottom, shaft, side or center mount locations (bottom mount shown).
- Available in all belt styles (rubber, cleated or plastic belts).

## 90° Degree Transfer



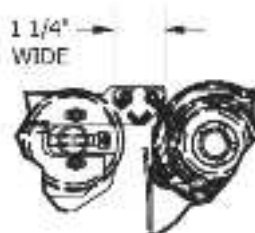
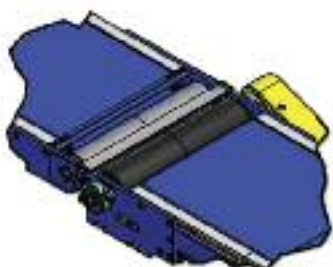
- Due to variations in set ups, pinch point guarding is the responsibility of the end user.
- Minimum part thickness is 1/4".
- Maximum suggested product weight is 20 lbs. @ 60 FPM.
- Package includes adjustable turn guide, guide wheel and transfer plate.

## Adjustable Lane Guiding



- This option allows you to create your own lanes, plows, merges or transfers.
- The number of guides must be specified per the application.
- Guides are UHMW lined.
- Maximum product heights must be noted to insure product will not hit the top mounting bracket.
- Package includes UHMW lined lane guide (# of guides per application), mounting brackets and adjusting knobs.

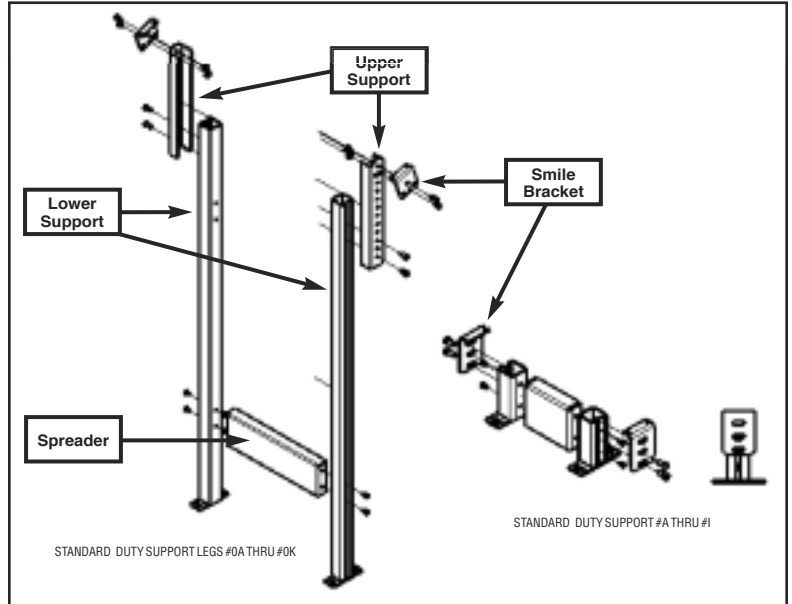
## Pulley Transfer Plate



- Mounts off the end of the infeed section.
- Includes both a horizontal and vertical adjustment to minimize gap and optimize product transfer.

## Standard Duty Supports – 12 Gauge Unistrut Style

PART #	MIN-MAX RANGE	PART LENGTH		# OF SPREADERS
		LOWER	UPPER	
1A	2" – 3"	1-7/8"	1-3/4"	0
1B	3" – 4"	2-7/8"	1-3/4"	0
1C	4" – 5"	3-7/8"	1-3/4"	0
1D	5" – 6"	4-7/8"	1-3/4"	0
1E	6" – 7-1/2"	5-3/4"	Smile Bracket Only	0
1F	7" – 8-1/2"	6-3/4"		0
1G	8" – 9-1/2"	7-3/4"		0
1H	9" – 10-1/2"	8-3/4"		0
1I	10" – 11-1/2"	9-3/4"		0
0A	11" – 14"	5-1/2"	9"	1
0B	13-1/2" – 17"	8"	11"	1
0C	16" – 22-1/2"	10-1/2"	14"	1
0D	22" – 31"	12-7/8"	19"	1
0E	30-1/2" – 39-1/2"	12-7/8"	28-1/2"	1
0F	39" – 48"	12-7/8"	37"	1
0G	47-1/2" – 56-1/2"	12-7/8"	45-1/2"	2
0H	56" – 65"	12-7/8"	54"	2
0I	64-1/2" – 73-1/2"	12-7/8"	62-1/2"	3
0J	73" – 82"	12-7/8"	71"	3
0K	81-1/2" – 90-1/2"	12-7/8"	79-1/2"	3



For a larger version of a drawing or to print a copy see our website at [WWW.NLECO.COM](http://WWW.NLECO.COM) and click on DRAWINGS

## 1-1/2" x 1-1/2" Structural Aluminum Supports (Part #SA)

1-1/2" x 1-1/2" x SA support heights are made per the application.

#SA supports adjustment range is +/-2".

Note: Leveling pads add an additional 3" of adjustment.

SUPPORT HEIGHTS	# SPREADERS
2" – 12"	1
13" – 36"	2
37" – 60"	3

Standard support options include knee braces, casters, floor locks, leveling pads and single post style supports.

## Standard Duty Supports



Standard Duty Style Support



(SA) Style Side View



Post Style Support with Leveling Pads



Floor Locks



Casters

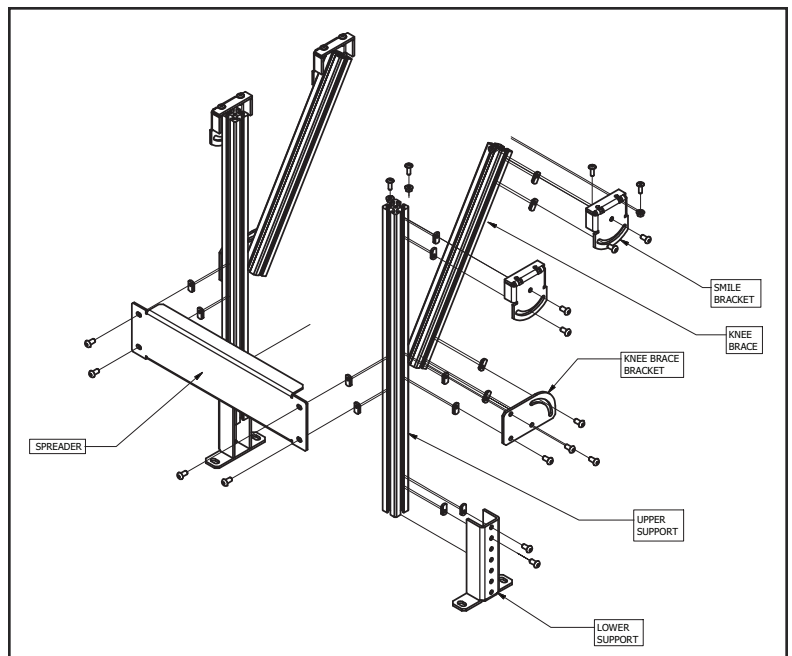
2 1/2"

3 1/4"

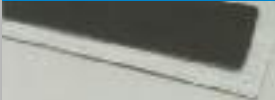












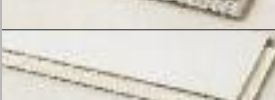


4"

## Number of Supports Required

CONVEYOR LENGTH	# SUPPORTS REQUIRED	CONVEYOR LENGTH	# SUPPORTS REQUIRED
5' – 14'	2 Pair	55' – 64'	7 Pair
15' – 24'	3 Pair	65' – 74'	8 Pair
25' – 34'	4 Pair	75' – 84'	9 Pair
35' – 44'	5 Pair	85' – 94'	10 Pair
45' – 54'	6 Pair	95' – 104'	11 Pair



(SA) Style Supports

GENERAL PURPOSE		COMMON AUTOMATION SERIES FABRIC BELT CHOICES – The first belt listed is the cheapest	
	<b>*2 Ply 70 Black PVC x IMPG (Spec #251)</b> This oil and cut resistant PVC cover is the ideal surface for general purpose conveying. The monofilament (multi-ply-2 plies or more) style construction provides strength and flexibility. This belt runs smooth, flat and quiet because the bottom is impregnated (coated) with a filler material resulting in a soft and level, low noise surface.	(Temp. Range 20°F to 180°F)	(.093" Thick)
	<b>*2 Ply 60 Black PVC x Bare Bottom (Spec #60)</b> Two plies of polyester fabric provide strength for this thin belt commonly used for retail checkout stands. The black PVC cover resists stains, cutting and gouges from rough use. The Matte cover is easily cleaned and the bare bottom back provides a low friction, low noise surface.	(Temp. Range 20°F to 180°F)	(.078" Thick)
ACCUMULATION			
	<b>Black PVC 100 Friction Surface x Brushed Bottom (Spec #64B)</b> Proven problem free package handling belt. Friction surfaces on both sides permit belt to move and accumulate products – this is a good low cost accumulation belt. Belt has good stretch, rip, tear and gouge resistance.	(Temp Range 20°F to 180°F)	(.125" Thick)
	<b>3 Ply Brown Nitrile Friction Surface x Friction Surface (Spec #110)</b> This belt's tightly woven blend of cotton and polyester fabric combined with Nitrile compounds makes this construction popular for a variety of light to medium weight accumulations and conveying applications. Good for metal parts and for carrying tapes for packaging machines. Good oil, grease and chemical resistance.	(Temp Range 0°F to 250°F)	(.078" Thick)
	<b>*2 Ply Ultimate 80 Accumulating Belt (Spec #255X)</b> This belt's frictionless top surface and unique non-woven construction makes this an excellent economical choice for accumulating everything from boxes to oily, sharp edge metal stampings.	(Temp. Range 10°F to 175°F)	(.100" Thick)
	<b>*2 Ply Urethane Impregnated Bare Top &amp; Bottom Accumulation Belt (Spec #256X)</b> This belt is considered the "Cadillac" of the accumulation belts. The bare top surface is good for accumulating and the bare bottom surface slides on the slider bed. This 2-ply urethane impregnated belt is resistant to cuts, abrasions and oils. This is our best choice for those nasty & dirty accumulation applications.	(Temp. Range 5°F to 175°F)	(.60" Thick)
ROUGH TOP			
	<b>*2 Ply Green PVC Rough Top x Bare Back (Spec #250)</b> This high grip, grease and oil resistant PVC belt has a nonskid textured surface that enables packages, boxes and other products to be conveyed on both inclines and declines. This belt runs smooth, flat and quiet due to the special low noise cover and its bare back that provides a low friction, low noise surface.	(Temp. Range 20°F to 160°F)	(.210" Thick)
	<b>*2 Ply Black Longitudinal Ribbed Top x Bare Back (Spec #253X)</b> This belt is designed for high and steep incline applications. The longitudinal raised ribbed surface literally grips and holds the parts being conveyed. This belt will run smooth, flat and quiet due to the bare back low friction, low noise surface. This belt is especially suited for plastic totes. This is a good belt for steep inclines/declines.	(Temp. Range 15°F to 175°F)	(.90" Thick)
	<b>*2 Ply Gray PVC Lattice Top x Bare Back (Spec #254X)</b> The soft PVC cover combined with the raised lattice style surface grips the parts and prevents roll back of lightweight plastic parts and totes. The belt will run smooth, flat and quiet due to the bare back low friction, low noise surface. Good plastic parts belt.	(Temp. Range 15°F to 140°F)	(.080" Thick)
URETHANE			
	<b>2 Ply Green Urethane x IMPG Back (Spec #249)</b> An economical yet high quality thin urethane belt with excellent cut and gouge resistance. This is an excellent choice for conveying sharp parts where an abundance of oil is present. This belt runs smooth, flat and quiet because the bottom is impregnated (coated) with a filler material resulting in a soft and level, low noise surface. This smooth top belt is also a good choice for light duty accumulating applications.	(Temp. Range 20°F to 180°F)	(.050" Thick)
	<b>*2 Ply Green Heavy Duty Urethane x Bare Back (Spec #255)</b> This heavy-duty urethane belt has an extra thick urethane top cover. (95% thicker – .039" versus the standard .020"). This belt is the preferred choice for conveying larger, heavier oily parts under tough loading conditions. This belt runs smooth, flat and quiet due to the bare back (non-coated) low friction, low noise surface.	(Temp. Range 15° to 175°F)	(.90" Thick)
WHITE BELTS			
	<b>*2 Ply White PVC (Spec 224)</b> Anti-static, FDA and USDA accepted general food conveying belt. This low cost belt is ideal for general transporting any food product and in an all non-marking applications.	(Temp. Range 20°F to 180°F)	(.078" Thick)
	<b>1 Ply White Urethane x IMPG Bottom (Spec #222)</b> This belt has a smooth non-adhesive white urethane top cover. Excellent choice for cooling tunnels and applications requiring a high release surface. This belt runs smooth, flat and quiet because the bottom is impregnated (coated) with a filler material resulting in a soft and level, low noise surface.	(Temp. Range 20°F to 180°F)	(.031" Thick)
	<b>*2 Ply 70 White Nitrile 3/64 x Friction Surface (Spec #91)</b> This high strength, great dimensional stability belt is ideal for wide and fast applications. FDA and USDA accepted.	(Temp. Range 0°F to 250°F)	(.093" Thick)
	<b>*2 Ply White Urethane x IMPG Bottom (Spec #223)</b> This belt's smooth non-adhesive white urethane top cover is ideal for applications where added strength and good release characteristics are required. It runs smooth, flat and quiet because the bottom is impregnated (coated) resulting in a soft and level, low noise surface. FDA and USDA accepted.	(Temp. Range 20°F to 180°F)	(.062" Thick)
	<b>3 Ply Polyester 105 White Butyl (Spec #98)</b> This belt is designed for extreme temperature variations from -65 degrees to 300 degrees F. Used in heat-sealing machines, shrink tunnels and other high temperature applications. This belt is also used in cold rooms and freezers where cold temperatures are the norm. FDA and USDA accepted.	(Temp. Range -65°F to -300°F)	(.109" Thick)
	<b>3 Ply Polyester 105 White Tyler Wire x Friction Surface (Spec #99)</b> This belt's surface has a slight wire-like impression that produces enough traction for use in moderate incline/decline applications. Often used for handling boxes, packages and small parts. It is a good non-marking oil and grease resistant belt to use in cold or hot applications. FDA and USDA accepted.	(Temp. Range 0°F to 250°F)	(.125" Thick)



# Save Time & Installation Costs With New London's "Quick Start" Motor Control Solutions

## New Option

### Quick Disconnect Motors, Controllers and Accessories

Units can be pre-wired with a quick connect/disconnect receptacle. Eliminates high voltage wiring dangers. Provides quick and easy maintenance and accessory mounting.



## New Option

### AC and DC Drive Packages – The Ultimate "Plug and Play" Motor Control Option

Save time and money by ordering your motor and controller pre-wired. Packages can be hard wired or wired with quick disconnects. Pre-wired packages include 4' of cord between the motor and controller & 10' of power cord – other cord lengths per customer request.



DC Drive Package



AC Drive Package

### Manual Motor Starters

- Push Button Start/Stop – with overload protection
- Plastic NEMA 12 enclosure
- Full voltage range up to 600 VAC
- Optional quick disconnect receptacle
- Note: unit is not magnetic thus it's not recommended for use with e-stop circuits.



Manual Motor Starters

### Magnetic Reversing or Non-Reversing Starters

- Built in Start/Stop/Reverse/Manual Reset push buttons with overload protection
- Compatible for both single and three-phase input
- NEMA 1-metallic lift-off enclosure with knockouts
- NEMA 12 metal enclosure available



Magnetic Reversing or Non-Reversing Starters

### DC Variable Speed Controllers (Simple, low cost DC speed control)

- NEMA 1 enclosure
- On/Off switch
- Speed potentiometer
- 90V units include 10' motor cord and plug
- 180V units include 10' motor cord with no plug



DC Variable Speed Controllers



(Available with Reverse)

## AC Variable Speed Controllers – Why use an AC Variable Speed Controller?

A “Variable” frequency drive uses an electronic controller to monitor the amount of electrical power being supplied to the motor. It adds more current/power when it’s needed and reduces current/power when it’s not needed.

Single speed drives do not control the amount of power being supplied to the motor. When the power is turned on, the motor starts abruptly at full current, which subjects the motor to high torque and current surges up to 10 times the motor’s full load capacity.

A variable speed frequency drive provides a soft start, gradually ramping up a motor to operating speed. This gradual increase in current, lessens mechanical and electronic stress on the motor which reduces maintenance and repair costs and extends motor life.

Consider upgrading to a variable speed controller when:

- the application requires an accurate and continuous speed (when speed control is vital)
- smooth acceleration is important (a smooth acceleration prevents damage and jams)
- production speeds vary from day to day
- the application requires indexing (frequent stops and starts)
- belt speeds vary with information supplied from accessories like photo eyes or stop/start push buttons

### AC Variable Speed Controller (Simple, low cost speed control)

- Keypad speed control, digital readout and overload protection
- Pre-wired motor and power cord packages optional
- NEMA 12 enclosure with mounting hardware
- Stop/Start/Forward/Reverse
- Capable of controlling up to (1) input device (photo eye, E-stop, etc.)

### AC Variable Speed Controller with Parameter Programming (Full feature variable speed controller used for simple accessory input applications.)

- Pre-wired motor and power cord packages optional
- Keypad speed control, digital readout and overload protection
- NEMA 12 enclosure with mounting hardware (Nema 4X available)
- Stop/Start/Forward/Reverse
- Capable of controlling up to (1) input device (photo eye, E-stop, etc.)

### AC Variable Speed Controller with Parameter Programming with up to 5 Inputs

(Full feature variable speed controller used with more complicated accessory applications.)

- Units pre-programmed parameters can be easily over-riden to customize the program for your needs.
- Pre-wired motor and power cord packages optional
- Internal terminals for hardwired PLC or machine interface
- Keypad speed control, digital readout and overload protection
- Communication card available
- Stop/Start/Forward

### The “Super Drive” Programmable AC Variable Speed Controller with up to 5 inputs

(This powerful controller is used when your application includes input and output from multiple locations and devices, ie – indexing applications, zone accumulations, controlled product throughout and gap control, PLC integration.)

- Many general purpose applications are pre-programmed at the factory
- Pre-wired motor and power cord packages optional
- Internal terminals for hardwired PLC or Machine interface
- Easy on site programming (instructions included)
- 24/7/365 programming help center
- LED digital read out display
- Communication card available
- Full feature VFD control
- Operator interface panel
- NEMA 12 Enclosure

AC Variable Speed Controller



AC Variable Speed Controller with One Input Receptacle

AC Variable Speed Controller with up to 5 inputs



The “Super Drive” Programmable AC Variable Speed Controller with up to 5 Inputs

## Emergency Stop

(Used in emergency situations to shut off power to the conveyor.)

- Plastic NEMA 12 enclosure
- Optional quick disconnect receptacle and cords
- Illuminated version optional
- Horizontal mounting bracket is standard

Emergency Stop



Jog Push Button



## Jog Push Button

- Push button jog switch
- Plastic NEMA 12 enclosure
- Optional quick disconnect receptacle and cords
- Horizontal or vertical mount

Remote Start/Stop



## Remote Start/Stop

- Push to stop/push to start (requires 2 inputs – One to stop & one to start)
- Plastic NEMA 12 enclosure
- Optional quick disconnect receptacle and cords
- Horizontal or vertical mount)

## Extension Cables

- 2 meter thru 30 meter lengths
- Quick disconnect extension cables



Extension Cables

Photo Eyes



## Photo Eyes

- Diffuse, Through Beam, Retro Reflective styles available
- 24V DC
- Wiring per application
- Mounting brackets made per the application

## Proximity Sensors

Proximity sensors are very inexpensive and easy to use. Typical uses include safety (motion detection), speed control feedback, part detection, product positioning for labeling or filling, batch counting or accumulation applications.

- Available unwired or wired
- 24 V DC
- Mounting brackets made per the application

Proximity Sensors



## Photo Eye / Proximity Sensor Bracket Kits

- Standard mounting for 18mm barrel
- Mounting brackets made per the application

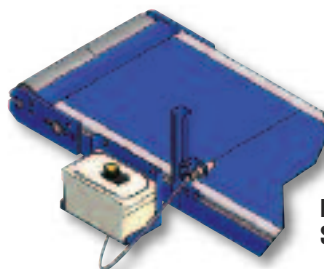


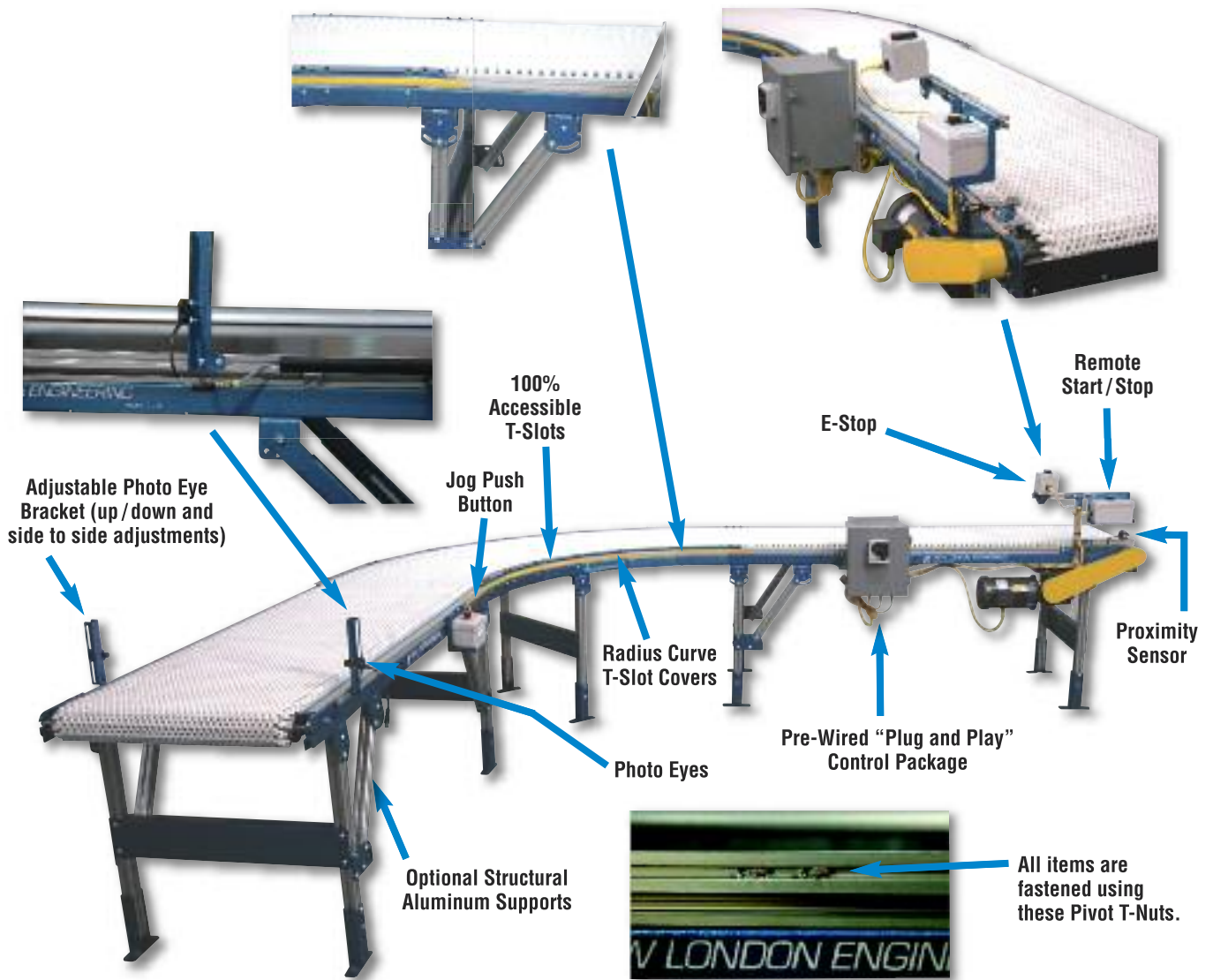
Photo Eye / Proximity Sensor Bracket Kits

Note: When buying a motor without a starter, the customer must supply their own on/off switch and motor overload protection to comply with NEC and CE safety directives.



# Automation Series Photo Gallery

— You can mount almost anything in the T-Slots with simple hand tools —

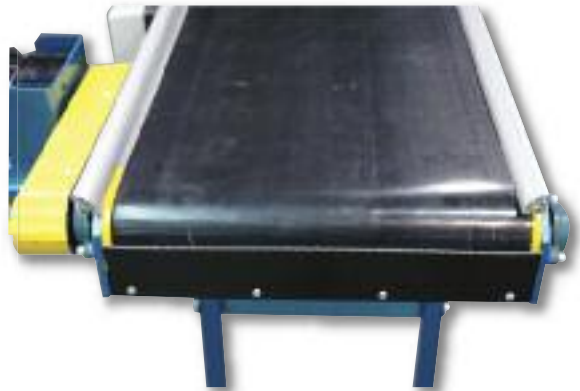


All items are fastened using these Pivot T-Nuts.

— Make your own modifications in the field —









This is an AS-2 Slider Bed Conveyor with 3" high smooth structural aluminum siderails and a work table. The work table is made entirely of Frame-World extrusions and components.



Build your own siderails. These siderails are 1" x 1" rounded extrusions fastened to the T-slot. Note: Right side includes a special mounting bracket to overlap the belt.

FEATURE	FLEXIBILITY FEATURES	SUMMARY STATEMENT
	<ul style="list-style-type: none"> <li>- The T-slots on the AS-1 and AS-2 are 100% accessible. The supports are mounted on the frames bottom side (not in the T-slot) so there are no obstructions in the T-slots. This means accessories can be easily mounted and moved anywhere on the conveyor.</li> <li>- Most competitors mount their supports in the T-slots – these large support mounting brackets get in your way and limit your accessory mounting flexibility.</li> </ul>	<p>The AS-1 and AS-2 are the only automation conveyors on the market with 100% accessibility to the T-slots.</p>
	<ul style="list-style-type: none"> <li>- The AS-1 and AS-2 utilize a combination of both steel and aluminum.</li> <li>- Steel can be cut and formed to your exact length, width and depth requirements.</li> <li>- The aluminum T-slots are purchased in 16' lengths so they can also be easily cut to your specifications.</li> </ul>	<p>Steel can be formed and bent to fit your applications exact requirements. Aluminum only frames cannot be bent and formed to your exact needs.</p>
	<ul style="list-style-type: none"> <li>- The automation series includes a rack and pinion belt tensioning system. This fast and accurate, single point belt tensioning system reduces downtime and maintenance costs.</li> <li>- Loosening the tension system contracts the infeed section providing the means for quick and easy belt removal or repair.</li> </ul>	<p>The rack and pinion take up system provides a fast, accurate and easy belt tensioning and belt replacement system.</p>
	<ul style="list-style-type: none"> <li>- We use name brand components like Baldor Motors and Dodge Bearings on our American Made and American Engineered conveyors.</li> <li>- Since we use many of the Automation Series components on other New London conveyors, we can rely on this inventory of parts to provide timely replacement part delivery.</li> </ul>	<p>Since our conveyors are manufactured and assembled here in the USA, we have a full inventory of replacement parts with same day or next day shipment.</p>
	<p>Our goal is to provide the shortest quote thru delivery lead times in the conveyor industry. If you need it fast, we can help!</p> <ul style="list-style-type: none"> <li>- Do you want to build your own CAD model to insert into your drawing? We have a library of AutoCAD 3D Models and 2D drawings available for you to download quickly and easily.</li> </ul>	<p>Speed – Our business is building custom conveyor solutions. We know how to get things done quickly and cost effectively. AutoCAD 2D &amp; 3D models are available.</p>
	<ul style="list-style-type: none"> <li>- The T-slots are fully compatible with the accessories from modular framing companies like Frame-World and 80/20®. Our compatible T-slots allow you to make your own additions or revisions easily and cost effectively without your equipment looking patched or run down.</li> </ul>	<p>You can easily make changes or additions to the AS-1 and AS-2 because their components are compatible with other modular framing companies such as Frame World or 80/20.</p>
	<p>These units are built to survive the extreme tests of the manufacturing environment. Use our Specification Chart to compare the AS-1 and AS-2 specs to their competitors.</p> <ul style="list-style-type: none"> <li>- Higher live loads and faster speeds</li> <li>- Deeper steel constructed frames – steel is stronger and more durable than aluminum.</li> <li>- Larger diameter bearings and shafts</li> </ul>	<p>The AS-1 and AS-2 are built to last the extreme tests of the manufacturing environment. Our Automation Series is more flexible, reliable and lower priced than its competitors.</p>
FEATURE	RELIABILITY FEATURES	SUMMARY STATEMENT
 <p>Size of New London drive bearing 1.85"OD (47mm)</p>  <p>Size of typical competitor's drive bearing 1.57"OD (40mm)</p>	<ul style="list-style-type: none"> <li>- Bearings are the most crucial component of a conveyor. For that reason, we use brand name, sealed for life, self-aligning, large diameter ball bearings.</li> <li>- Why is a bearing's diameter important? It's simple – the larger the diameter, the larger "balls" within the ball bearings. Large balls rotate fewer times than smaller ones. The fewer times something rotates, the longer it will last.</li> </ul>	<ul style="list-style-type: none"> <li>- Our 42MM (1.65") and 47MM (1.85") diameter ball bearings are the strongest and longest lasting bearings in the industry.</li> <li>- If you agree bearings are the most crucial conveyor component, compare the AS-1 and the AS-2 bearing and pulley configurations to its competitors – these units are more reliable, flexible and lower priced than the competitors.</li> </ul>

FEATURE	RELIABILITY FEATURES	SUMMARY STATEMENT
	<ul style="list-style-type: none"> <li>- The large 3" or 4" diameter crown faced pulleys provide more surface area for the belt to wrap around. The more belt wrap there is, the more weight the conveyor can carry.</li> <li>- The rubber lagging increases pulley life and adds surface friction resulting in more pull and load capacity.</li> <li>- These larger diameter pulleys also rotate fewer times than many competitor's designs – fewer rotations increases the life of the bearings, the belt and the pulley itself.</li> <li>- The crown in the pulley's center keeps the belt centered and tracked which increases belt life. Since both pulleys are crowned, these units can be tracked much easier and quicker than most competitors.</li> </ul>	<ul style="list-style-type: none"> <li>- All conveyor belt manufacturers recommend conveyor manufacturers use large crowned faced pulleys to pull or drive a conveyor belt. New London's Automation Series uses crowned pulleys on both ends of the conveyor.</li> <li>- Conveyors with large crowned pulleys are easier to track than those with a flat faced or knurled pulley. Quicker conveyor belt tracking saves you time and money.</li> <li>- Take the time to compare – most competitors do not use the recommended crown-faced rubber lagged drive pulley.</li> </ul>
	<ul style="list-style-type: none"> <li>- The AS-1 and AS-2 is a combination of both steel and aluminum. The strength and durability of steel compared to aluminum makes these units the ideal conveyor choice for virtually any kind of automation or manufacturing environment.</li> <li>- Stainless steel construction available.</li> </ul>	<p>The strength and durability of steel makes these units the ideal choice for conditions found in a manufacturing environment.</p>
FEATURE	LOW COST FEATURES	SUMMARY STATEMENT
	<ul style="list-style-type: none"> <li>- Sheets of steel are purchased in bulk and used throughout our entire product line of conveyors. The cost of bulk purchased steel is considerably cheaper than the cost of various widths of extruded aluminum frames.</li> <li>- Steel frames are also cut and formed as needed. So our work in process inventory and carrying costs are considerably lower than a complete inventory of extruded aluminum frames.</li> <li>- These lower material and inventory costs are built into our prices.</li> </ul>	<p>Compare our prices to our extruded aluminum frame competitors – our Automation Series is a bargain.</p> <p>The reason we can sell our automation conveyors for less is simple – Steel is cheaper than aluminum!</p>
	<ul style="list-style-type: none"> <li>- We have been building conveyors for a living since 1948. Our size and commitment to our U.S. suppliers provides us the opportunity to buy parts and materials in large volumes – these volume discounts are built into our prices.</li> </ul>	<p>New London buys parts and materials in bulk and passes along these savings in the form of lower prices.</p>
	<ul style="list-style-type: none"> <li>- We have state of the art production equipment providing us with a low cost producer position.</li> <li>- These lower production costs are built into our prices.</li> </ul>	<p>New London is a low cost producer because of our state of the art production equipment.</p>
	<ul style="list-style-type: none"> <li>- Our 5S (Maintaining a Clean and Organized Manufacturing Environment) and Lean Manufacturing techniques keep production costs low.</li> <li>- These lower production costs are built into our prices.</li> </ul>	<p>New London's Lean Manufacturing culture keeps production costs low. These lower costs are built into our prices.</p>

## THE AUTOMATION SERIES – APPLICATIONS AND TARGET INDUSTRIES

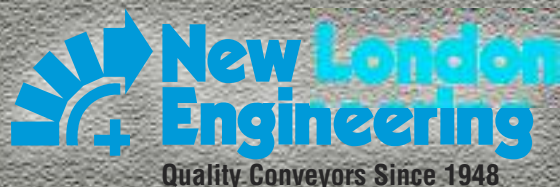
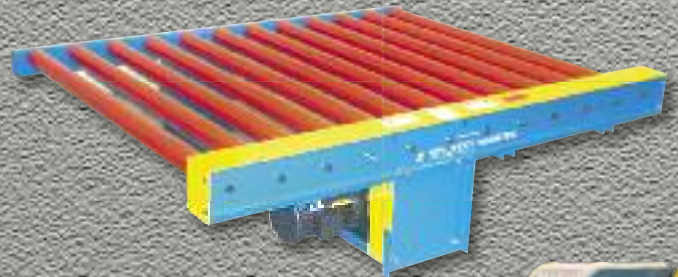
Assembly Operations	Ink Jet Printing	Labeling Applications	Printing Plants	Medical/Pharmaceutical Assembly Operations
Heat Tunnels	Robotic Integration	Packaging Plants	Bar Coding Applications	Plastic Injection Molding Operations



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