



Advanced **UNIFLO**[®]
Technologies, Ltd.

Slider Bed Conveyor

*The Right Choice for your material handling needs.
Light & Medium Duty Belt Driven, & Portable Parts Conveyor.*



Where People...

Make the Difference.



Light Duty Horizontal Slider Bed



Medium Duty Horizontal Slider Bed



Incline/Decline Slider Bed

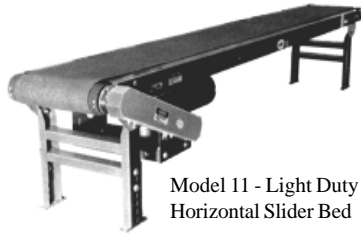


Portable Parts Conveyor



Accessories and Technical Drawings

STANDARD SPECIFICATIONS:



Model 11 - Light Duty Horizontal Slider Bed

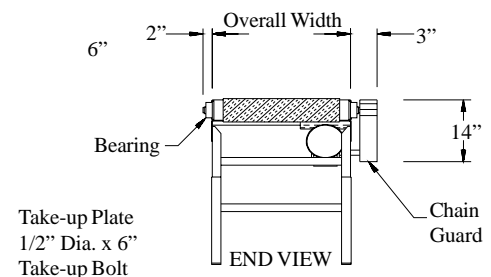
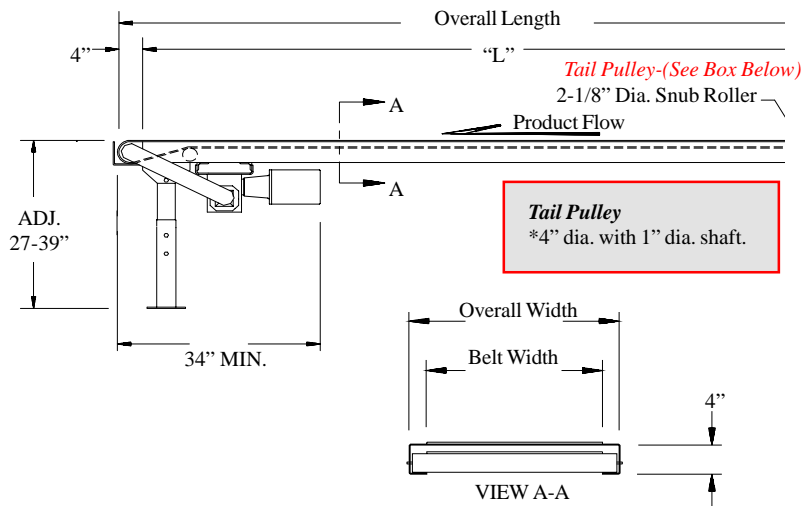
OPTIONAL EQUIPMENT:

- Motors:** 1/2 or 3/4 horsepower.
- Drives:** Underside center drive.
- Underside Take-up:** 18" of additional belt take-up.
- Power Feeders:** Chain driven or integral.
- Belt Speeds:** From 25 FPM to 135 FPM.
- Guard Rails:** Consult accessories section of this brochure for more details.
- Supports:** Consult accessories section of this brochure for more details.
- Ceiling Hangers:** Consult accessories section of this brochure for more details.
- Paint:** Special colors, powder coat.
- Electrical Controls:** Consult factory.

Light Duty Horizontal Slider Bed Belt Conveyors

Bed Lengths:	5'-0" or 10--0" increments.
Overall Widths:	10", 18", 24", 28", 34"
Belt Widths:	6", 14", 20", 24", 30"
Bed:	4" deep, 12 gauge formed painted steel box type.
Drive/Pulley:	4" dia. end drive pulley crowned, fully lagged with 1" dia. shaft. 8" dia. drive pulley with 1-7/16" dia. shaft on units 50' overall length and longer.
Tail Pulley:	4" dia. crowned with 1" dia. shaft.
Bearings:	Self-aligning, sealed flange ball bearings.
Snub Rollers:	2-1/8" dia. x 11 ga. with 7/16" hex axle. Bearings are sealed and grease-packed.
Return Idler:	1.9" dia. x 16 ga. with 7/16" hex axle.
Belt:	PVC-120 black friction both sides.
Belt Take-up:	6" take-up bolts.
Motor:	1/3 HP, 230/460 V., 3 phase, totally enclosed C-faced.
Belt Speed:	60 FPM.
Speed Reduction:	Right angle speed reducer connected to the drive pulley by #40 roller chain and sprockets. #50 roller chain and sprockets for 8" dia. drive pulley.
Paint:	Advanced Uniflo Dark Blue.
Guards:	Pinch points are guarded for increased safety.
Supports:	27" - 39" measuring from floor to top of belt.
Capacity:	350 lbs. belt pull for 4" dia. drive pulley and 750 lbs. belt pull for 8" dia. drive pulley. See capacity chart on page 6 of this brochure for more details.

STANDARD SPECIFICATION DRAWINGS:



CONVEYOR WEIGHTS:

Overall Widths	10"	18"	24"	28"	34"
Belt Widths	6"	14"	20"	24"	30"
5' Conveyor Weight (Lbs.)	237#	277#	334#	356#	378#
Weight Per Foot (Lbs.)	8#	12#	17#	19#	20#

STANDARD SPECIFICATIONS:



Model 16 - Medium Duty Horizontal Slider Bed

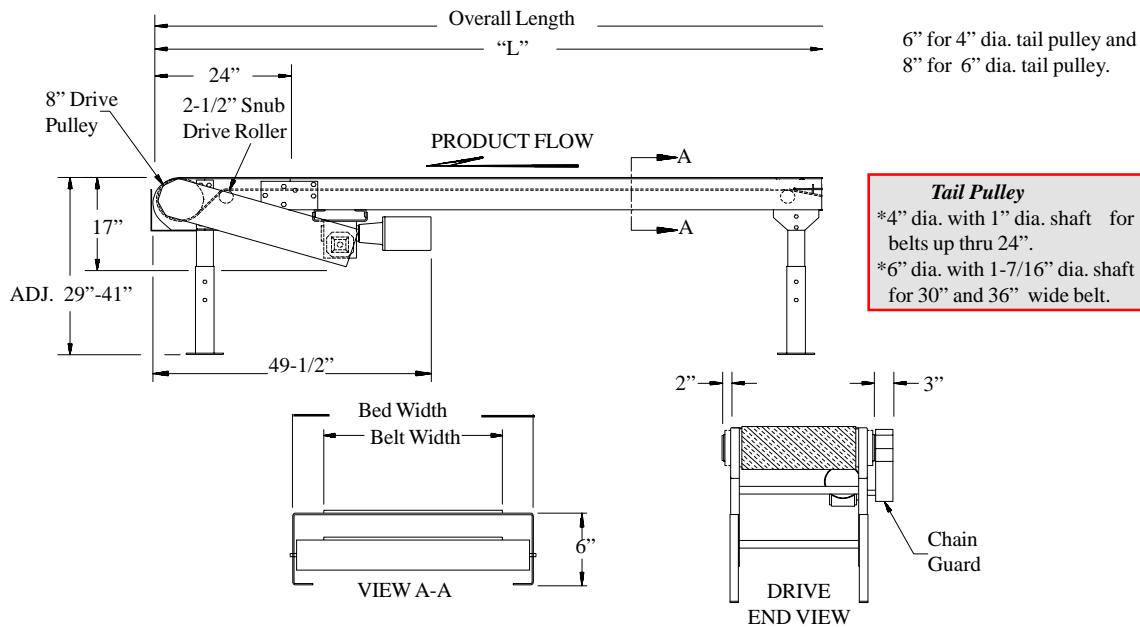
OPTIONAL EQUIPMENT:

- Motors:** 3/4 horsepower.
- Drives:** Underside center drive.
- Underside Take-up:** 18" of additional belt take-up.
- Power Feeders:** Chain driven or integral.
- Belt Speeds:** From 25 FPM to 135 FPM.
- Guard Rails:** Consult accessories section of this brochure for more details.
- Supports:** Consult accessories section of this brochure for more details.
- Ceiling Hangers:** Consult accessories section of this brochure for more details.
- Paint:** Special colors, powder coat.
- Electrical Controls:** Consult factory.

Medium Duty Horizontal Slider Bed Belt Conveyors

Bed Lengths:	5'-0" or 10'-0" increments.
Overall Widths:	24", 30", 36", 42"
Belt Widths:	18", 24", 30", 36"
Bed:	6" deep, 12 gauge formed painted steel box type.
Drive / Pulley:	8" dia. end drive pulley crowned, fully lagged with 1-7/16" dia. shaft.
Tail Pulley:	4" dia. crowned with 1" dia. shaft for 18" and 24" belt. 6" dia. for 30" and 36" belt with 1-7/16" dia. shaft.
Bearings:	Self-aligning, sealed flange ball bearings.
Snub Rollers:	2-1/2" dia. x 11 ga. with 9/16" hex shaft mounted in adjustable brackets for belt tracking at drive pulley, 2-1/8" dia. x 11 ga. with 7/16" hex shaft at tail pulley. Bearings are sealed and grease-packed.
Return Idler:	1.9" dia. x 16 ga. with 7/16" hex shaft.
Belt:	PVC-120 black friction both sides.
Belt Take-Up:	6" take-up bolts.
Motor:	1 HP, 230/460 V., 3 phase, totally enclosed C-faced.
Belt Speed:	60 FPM.
Speed Reduction:	Right angle speed reducer connected to the drive pulley by #50 roller chain and sprockets.
Paint:	Advanced Uniflo Dark Blue.
Guards:	Pinch points are guarded for increased safety.
Supports:	29" - 41" measuring from floor to top of belt.
Capacity:	750 lbs. belt pull. See capacity chart on page 6 of this brochure for more details.

STANDARD SPECIFICATION DRAWINGS:



CONVEYOR WEIGHTS:

Overall Widths	24"	30"	36"	42"
Belt Widths	18"	24"	30"	36"
5' Conveyor Weight (Lbs.)	402#	438#	498#	560#
Weight Per Foot (Lbs.)	22#	25#	28#	31#

STANDARD SPECIFICATIONS:



Model 30 - Incline/
Decline Slider Bed

OPTIONAL EQUIPMENT:

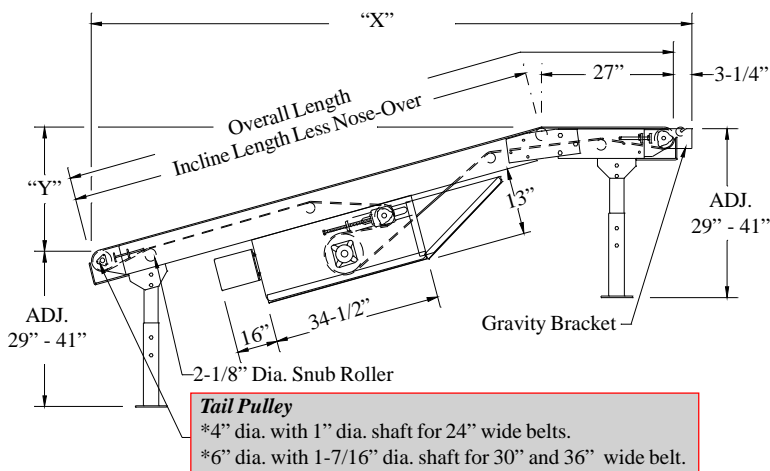
- Motors:** 3/4 horsepower.
- Underside Take-up:** 18" of additional belt take-up.
- Power Feeders:** Chain driven or integral.
- Guard Rails:** Consult accessories section of this brochure for more details.
- Supports:** Consult accessories section of this brochure for more details.
- Ceiling Hangers:** Consult accessories section of this brochure for more details.
- Paint:** Special colors, powder coat.
- Electrical Controls:** Consult factory.

Incline/Decline Slider Bed Belt Conveyors

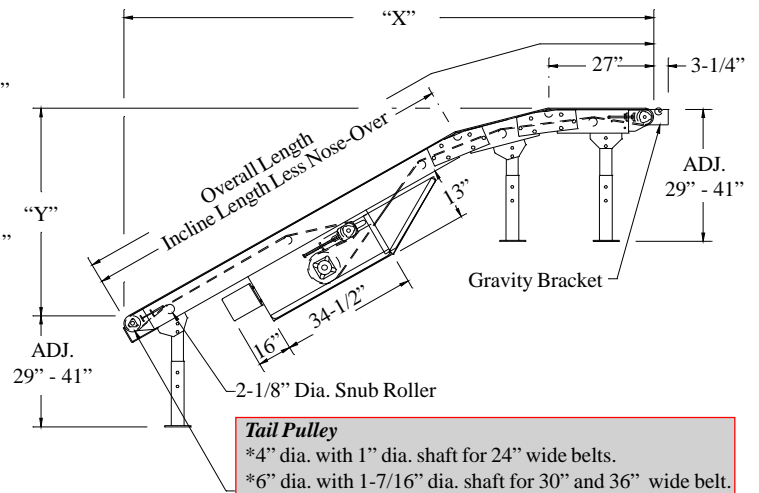
Bed Lengths:	5'-0" or 10'-0" increments.
Overall Widths:	24", 30", 36", 42"
Belt Widths:	18", 24", 30", 36"
Bed:	6" deep, 12 gauge formed painted steel box type.
Undertrussing:	Provided as standard on conveyors 25' to 45' in length. Joint support angles at bed joints are provided as standard on machines under 25' long.
Drive / Pulley:	8" dia. underside center drive pulley with 1-7/16" dia. shaft, crowned and fully lagged.
Pop-out Roller:	1.9" dia. x 16 ga. pop-out roller mounted at drive pulley.
Tail Pulley:	4" dia. pulley with 1" dia. shaft for 18" and 24" wide belt, 6" dia. pulley with 1-7/16" dia. shaft for 30" and 36" belt.
Bearings:	Self-aligning, sealed flange ball bearings.
Snub Rollers:	2-1/2" dia. x 11 ga. with 9/16" hex shaft at drive pulley. 2-1/8" dia. x 11 ga. with 7/16" hex shaft at tail pulley. Bearings are sealed and grease-packed.
Return Idler:	One 1.9" dia. x 16 ga. galvanized roller per bed section with 7/16" hex shaft.
Belt:	2 ply 150 black roughtop.
Belt Take-Up:	6" take-up bolts.
Motor:	1 HP, 230/460 V., 3 phase, totally enclosed C-faced.
Belt Speed:	60 FPM.
Speed Reduction:	Right angle worm gear speed reducer connected to the drive pulley by #50 roller chain and sprockets.
Nose-Over:	Single or double.
Paint:	Advanced Uniflo Dark Blue.
Guards:	Pinch points are guarded for increased safety.
Supports:	29" - 41" measuring from floor to top of belt.
Capacity:	750 lbs. belt pull. See capacity chart on page 6 of this brochure for more details.

STANDARD SPECIFICATION DRAWINGS:

8" Center Drive Single Nose-Over - (Guarding removed for clarity.)



8" Center Drive Double Nose-Over - (Guarding removed for clarity.)



CONVEYOR WEIGHTS:

Overall Widths	24"	30"	36"	42"
Belt Widths	18"	24"	30"	36"
5' Conveyor Weight (Lbs.)	586#	591#	620#	684#
Weight Per Foot (Lbs.)	31#	40#	45#	50#

STANDARD SPECIFICATIONS:



Model 75 - Portable Parts Conveyor

OPTIONAL EQUIPMENT:

Motors: 1/2 or 3/4 horsepower.

Supports: Consult accessories section of this brochure for more details.

Paint: Special colors, power coat.

Electrical Controls: Consult factory.

Portable Parts Conveyors

Bed Lengths:	5'-0" or 10'-0" increments.
Bed Widths:	18", 24", 30"
Belt Widths:	12", 18", 24"
Bed:	6" deep, 12 gauge formed painted steel box type.
Drive / Pulley:	4" dia. overhead mounted drive pulley crowned, fully lagged with 1" dia. shaft.
Tail Pulley:	4" dia. crowned with 1" dia. shaft.
Bearings:	Self-aligning, sealed flange ball bearings.
Belt:	3 ply nitrile rubber with 1-1/2" high cleat on 12" centers.
Belt Take-Up:	6" take-up bolts for belt tracking.
Belt Return:	Flat metal trough in which belt cleats slide inside bed.
Motor:	1/3 HP, 230/460 V., 3 phase, totally enclosed C-faced.
Belt Speed:	60 FPM.
Paint:	Advanced Uniflo Dark Blue.
Guards:	4" high solid steel with parts gate at infeed end.
Supports:	Portable base support of tubular steel mount-on skid pads. Two 4" dia. steel caster wheels are provided for moving. Infeed and discharge ends are both adjustable for height. Adjustment is accomplished by screw type lock lever.
Capacity:	123 lbs. belt pull for 10 foot conveyor. See capacity chart below for more details.

HEIGHT ADJUSTMENT:

Conveyor "L"	Min. Tail		Min. Tail		Max. Tail		Max. Tail	
	Min. Drive		Max. Drive		Min. Drive		Max. Drive	
	I	D	I	D	I	D	I	D
5'	11"	41"	10"	56"	25"	37"	26"	54"
10'	11"	74"	10"	118"	67"	67"	55"	116"

CONVEYOR WEIGHTS:

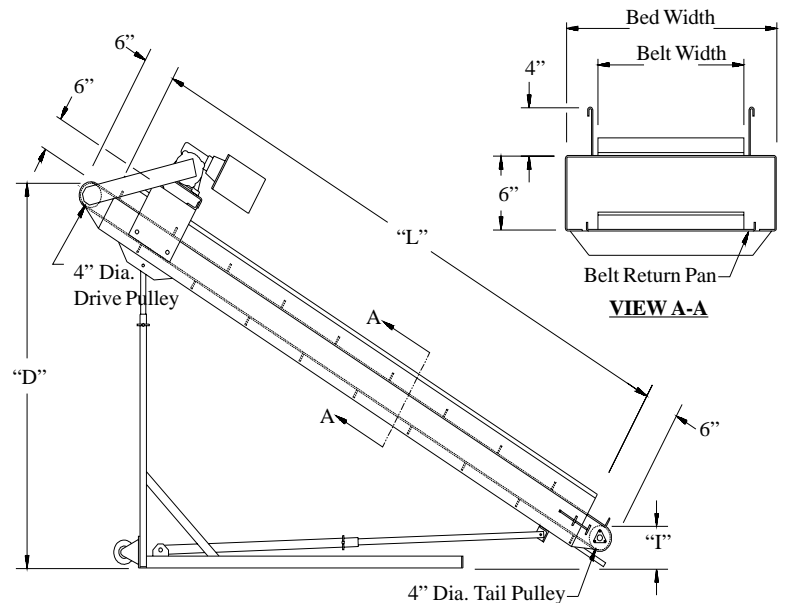
Overall Widths	18"	24"	30"
Belt Widths	12"	18"	24"
5' Conveyor Weight (Lbs.)	516#	588#	637#
10' Conveyor Weight (Lbs.)	582#	667#	752#
Weight Per Foot (Lbs.)	28#	38#	47#

HORSEPOWER CAPACITY:

	"D"	2.9 ft.	5.7 ft.	Belt Pulls In (Lbs.)
	"L"	5 ft.	10 ft.	
Live Load Per Foot	5'	32#	65#	
	10'	61#	123#	
	15'	90#	180#	
	20'	119#	237#	
	25'	147#	294#	

NOTE: Use "CHART B" on Page 6 for Horsepower Requirement.

STANDARD SPECIFICATION DRAWINGS:



HORSEPOWER CAPACITY (MODELS 11, 16):

To calculate horsepower requirements for Slider Bed conveyors, follow these steps:

Step #1 - Calculate the live load per foot (weight of product per foot) of your application.

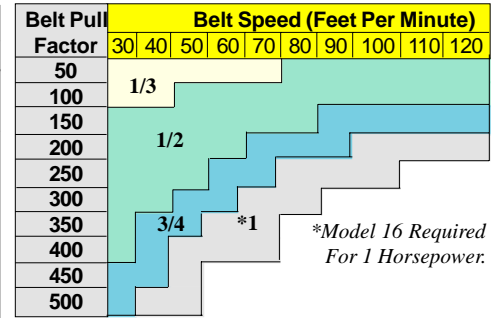
Step #2 - Determine Belt Pull Factor from Chart A below.

Step #3 - Use Belt Pull Factor with Chart B below to determine horsepower requirement for your application.

CHART A - Belt Pull Factor for Slider Bed Conveyors

Live Load Per Foot	Overall Length														
	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100
5	28	43	57	82	85	100	114	128	142	156	171	199	228	256	284
10	52	77	103	129	154	180	206	231	257	283	309	360	412	463	514
15	77	112	149	186	223	261	298	335	372	409	447	521	596	670	744
20	97	146	195	244	278	325	390	438	487	536	585	682	780		
25	120	181	241	301	361	422	482	542	602	662	723				
30	143	215	287	359	430	502	573	645	717						
40	189	284	379	474	568	663	757								
50	235	353	471	589	706										

CHART B - Horsepower Requirement



NOTE #1: Slider bed component and friction factor used in these calculations is 46%.

NOTE #2: Factor figures allow for 75% efficiency of gear reducer and 95% efficiency of chain drive. Maximum allowable belt pull for 4" dia. drive pulley is 350 lbs. and for 8" dia. drive pulley is 750 lbs. Chart B is a short means to determine horsepower requirements. For complete calculations see CEMA standards.

HORSEPOWER CAPACITY (MODEL 30):

Step #1: Determine the Overall Length of conveyor from Incline/Decline Calculation Chart.

Step #2: On the Live Load Capacity Chart, choose the Overall Length nearest your requirements.

Step #3: Select the incline or decline angle appropriate to determine the correct horsepower needed to convey the load.

Incline/Decline Calculation Charts 8" Center Drive									
Double Nose-Over					Single Nose-Over				
Up to 24" Belt Width (4" Dia. Tail Pulley with 1" Dia. Shaft)					Tail Pulley with 1" Dia. Shaft				
Overall Lengths	∠ = 15°		∠ = 25°		Overall Lengths	∠ = 15°		∠ = 25°	
	X	Y	X	Y		X	Y	X	Y
10'	9'-8"	2'-1"	9'-4"	2'-11"	8'	7'-9"	1'-6"	7'-5"	2'-10"
15'	14-6	3-4	13-10	5-0	13'	12-7	2-10	11-11	4-11
20'	19-4	4-8	18-5	7-2	18'	17-5	4-2	16-5	7-0
25'	24-1	5-11	22-11	9-3	23'	23-3	5-3	21-1	9-2
30'	29-0	7-3	27-6	11-4	28'	27-1	6-9	25-6	11-3
35'	33-9	8-6	32-0	13-6	33'	31-10	8-0	30-0	13-4
40'	38-8	9-10	36-6	15-7	38'	36-9	9-4	34-7	15-6
45'	43-5	11-2	41-1	17-9	43'	44-6	10-7	39-1	17-7

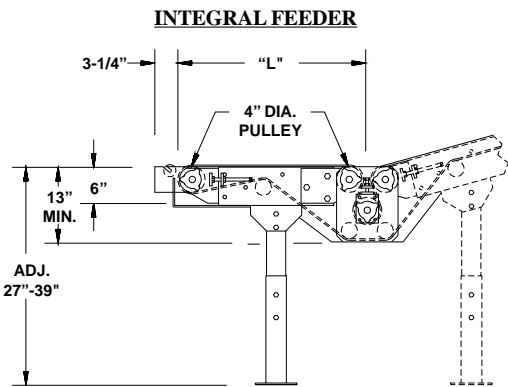
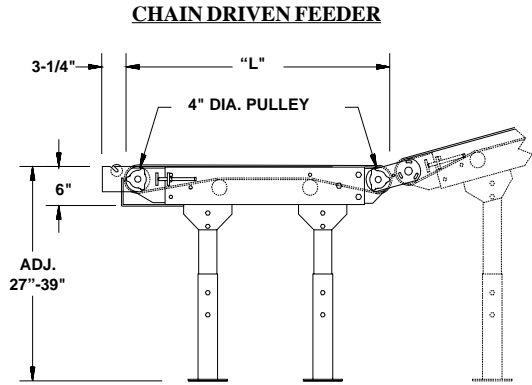
Incline/Decline Calculation Charts 30" Belt Width (6" Dia. Tail Pulley with 1-7/16" Dia. Shaft)									
Double Nose-Over					Single Nose-Over				
Overall Lengths	∠ = 15°		∠ = 25°		Overall Lengths	∠ = 15°		∠ = 25°	
	X	Y	X	Y		X	Y	X	Y
10'-4"	10'-0"	2'-1"	9'-8"	2'-11"	8'-4"	8'-1"	1'-6"	7'-9"	2'-10"
15'-4"	14-10	3-4	14-2	5-0	13'-4"	12-11	2-10	12-3	4-11
20'-4"	19-8	4-8	18-9	7-2	18'-4"	17-9	4-2	16-9	7-0
25'-4"	24-5	5-11	23-3	9-3	23'-4"	22-7	5-6	21-4	9-4
30'-4"	29-4	7-3	27-10	11-4	28'-4"	27-5	6-9	25-10	11-3
35'-4"	34-1	8-6	32-4	13-6	33'-4"	32-2	8-0	32-4	13-4
40'-4"	39	9-10	36-10	15-7	38'-4"	37-1	9-4	34-11	15-6
45'-4"	43-9	11-2	41-5	17-9	43'-4"	41-10	10-7	39-5	17-7

LIVE LOAD CAPACITY IN POUNDS/FT. (WITH FEEDER) Calculations based on 60 FPM						
Conveyor Dimensions			∠ = 15°		∠ = 25°	
Overall Widths	Belt Widths	Overall Lengths	Horsepower		Horsepower	
			3/4	1	3/4	1
24"	18"	10'0"	27	40	24	35
		20'0"	14	20	11	17
		30'0"	9	13	7	11
30"	24"	10'0"	26	39	23	35
		20'0"	13	20	11	17
		30'0"	8	13	7	11
36"	30"	10'4"	25	38	22	34
		20'4"	12	19	10	16
		30'4"	7	12	6	10

LIVE LOAD CAPACITY IN POUNDS/FT. (WITH FEEDER) Calculations based on 60 FPM						
Conveyor Dimensions			∠ = 15°		∠ = 25°	
Overall Widths	Belt Widths	Overall Lengths	Horsepower		Horsepower	
			3/4	1	3/4	1
24"	18"	10'0"	35	52	31	45
		20'0"	16	24	13	19
		30'0"	10	15	8	12
30"	24"	10'0"	35	52	30	45
		20'0"	15	23	13	19
		30'0"	9	14	8	12
36"	30"	10'4"	34	51	29	44
		20'4"	14	22	12	18
		30'4"	8	13	7	11

Feeders: (For use with Incline Conveyors.)

	Chain Driven Feeder	Integral Feeder
Lengths:	Lengths are 28", 43", 55", 79" and 90", depending upon conveyor width. (See chart below.)	Lengths are 28" and 32" depending upon conveyor width. (See chart below.)
Bed:	6" deep "box" construction x 12 ga. steel.	
Drive:	Powered by incline conveyor with roller chain and sprockets.	Powered by incline conveyor with continuous integral belt.
Tail Pulley:	4" dia. pulley with 1" extended shaft for 18" and 24" belt and 6" dia. pulley with 1-7/16" shaft for 30" and 36" belts.	
Bearings:	Self-aligning, sealed, flanged ball bearings.	
Snub Rollers:	2-1/8" dia. x 11 ga. roller mounted in bed section.	
Belt:	Chain driven feeder uses its own belt independent of the incline conveyor belt. Belt is 3 ply 28 oz. black friction surface.	Belt supplied with incline conveyor.
Belt Take-Up:	6" take-up bolts.	
Brackets / Pop-Out Rollers:	Installed at tail end to couple power feeder to other power or incline equipment. 1.9" dia. x 16 ga. pop-out rollers mounted in gravity brackets.	
Guards:	Pinch points are guarded for increased safety.	
Supports:	27" - 39" measuring from floor to top of belt.	



Chain Driven Feeder Weights:

Overall Widths	10"	18"	24"	28"	30"	34"	36"	42"
Lengths "L"	28"	28"	43"	55"	55"	75"	79"	90"
Weight (Lbs.)	100#	120#	138#	175#	184#	255#	264#	323#

Integral Feeder Weights:

Overall Widths	10"	18"	24"	28"	30"	34"	36"	42"
Lengths "L"	28"	28"	28"	28"	28"	28"	32"	32"
Weight (Lbs.)	120#	135#	156#	170#	180#	199#	294#	328#

Medium Duty "M" Series Supports:

Frame: 12 gauge, welded formed steel construction.

Pivot Plates: 35 degree adjustable standard.

Floor Anchors: Holes for 1/2" anchor bolts are provided in support feet.



"M" Series

Capacity
1500# Ea.

Height to Top of Conveyor		
Models	Model	Weights (Lbs.)
11	16, 30, 75	
11" - 14"	13" - 17"	9#
14" - 17"	16" - 19"	11#
17" - 20"	19" - 22"	14#
20" - 26"	22" - 28"	17#
24" - 30"	26" - 32"	19#
*27" - 39"	*29" - 41"	23#
38" - 50"	40" - 52"	28#
50" - 62"	52" - 64"	35#
62" - 74"	64" - 76"	40#
74" - 86"	76" - 88"	43#
84" - 96"	86" - 98"	46#
96" - 108"	98" - 110"	49#

*Standard Support Height.

Guard Rails:

Vertical and Angle Solid Steel Guard Rails.

Rod Type Ceiling Hangers:

Widths - Widths correspond with width of conveyor ordered.

Lengths - 10' long fully threaded rod. To be used in place of standard stationary supports.

Extensions - Rod lengths may be extended using coupling nuts.

Rods - 5/8" diameter all thread rods.

Cross Pipe - 1-1/2" diameter pipe.

Poly-Tier Supports:

Capacity - 1500 lbs. per cross member and 3000 lbs. per support.

Widths - 16" to 42" standard overall widths.

Heights - Heights from 36" to 84" top of roller.







Tiers - Two tiers standard.

Knee Braces - 10 gauge formed angle steel. One set standard. Installer must field drill for exact fit.

Dust Pans: (Model 30)

Solid steel to fit specified conveyor unit.

Your authorized Advanced Uniflo Technologies Distributor can give you more information about gravity skatewheel and roller conveyor and other Advanced Uniflo Technologies products and what makes Advanced Uniflo Technologies ***The Right Choice*** when fulfilling your material handling needs. Publications that are available include:

-  Gravity Conveyor (brochure)
-  Roller Bed Conveyor (brochure)
-  Live Roller Conveyor (brochure)
-  Pallet Handling Conveyor (brochure)
-  Pallet Handling Curves and Transfers (brochure)
-  Conveyor Solutions for Industry (brochure)



(Member Affiliations)



CUSTOMER SERVICE AND QUALITY

Advanced Uniflo Technologies is dedicated to quality on-time fabrication, assembly and delivery. Meeting customer requirements is always a must. Our 80,000 square foot site is centrally located, providing easy access to major highways, railways and air transportation. Each conveyor is shipped as preassembled as possible to optimize installation time.



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