



# Floor-to-Floor Incline Conveyor (Slider Bed)

The Model SBI is a floor-to-floor incline conveyor. It is equipped with an adjustable double nose-over at the discharge end to insure a smooth transfer from the incline to horizontal plane. Inclines are easily adjusted up to 30°. This conveyor can also be used as a booster conveyor in gravity flow systems.

- 12 Belt Widths
- Center Drive
- Reversible
- Brake Motor
- System Ends
- Double Nose-over
- Pop-out Roller
- Powered Feeder
- Ceiling Hangers Available
- Adjustable MS-Type Floor Supports Available
- Undertrussing (18", 24", & 30" OAW From Stockyard Only)



Conveyor shown with optional floor supports

SIZE TO ORDER Overall Length "A" 4" Dia. Pulley	Bed Length "L"	"B" @ 25°	"H" @ 25° Infeed @ 30 1/2" Discharge @ 30 1/2"	Between Rail Width												SIZE TO ORDER Overall Length "A" 6" Dia. Pulley																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
				Belt Width													27"	31"	33"	37"	39"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				13"	15"	17"	19"	21"	23"	25"	27"	31"	33"	37"	39"		24"	28"	30"	34"	36"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Overall Frame Width				16"	18"	20"	22"	24"	26"	28"						30"	34"	36"	40"	42"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
13'-10"	10'	12'-8"	4'-11"	886	941	996	1051	1106	1161	1216	1271	1326	1381	1436	1491	1546	1601	1656	1711	1766	1821	1876	1931	1986	2041	2096	2151	2206	2261	2316	2371	2426	2481	2536	2591	2646	2701	2756	2811	2866	2921	2976	3031	3086	3141	3196	3251	3306	3361	3416	3471	3526	3581	3636	3691	3746	3801	3856	3911	3966	4021	4076	4131	4186	4241	4296	4351	4406	4461	4516	4571	4626	4681	4736	4791	4846	4901	4956	5011	5066	5121	5176	5231	5286	5341	5396	5451	5506	5561	5616	5671	5726	5781	5836	5891	5946	6001	6056	6111	6166	6221	6276	6331	6386	6441	6496	6551	6606	6661	6716	6771	6826	6881	6936	6991	7046	7101	7156	7211	7266	7321	7376	7431	7486	7541	7596	7651	7706	7761	7816	7871	7926	7981	8036	8091	8146	8201	8256	8311	8366	8421	8476	8531	8586	8641	8696	8751	8806	8861	8916	8971	9026	9081	9136	9191	9246	9301	9356	9411	9466	9521	9576	9631	9686	9741	9796	9851	9906	9961	10016	10071	10126	10181	10236	10291	10346	10401	10456	10511	10566	10621	10676	10731	10786	10841	10896	10951	11006	11061	11116	11171	11226	11281	11336	11391	11446	11501	11556	11611	11666	11721	11776	11831	11886	11941	11996	12051	12106	12161	12216	12271	12326	12381	12436	12491	12546	12601	12656	12711	12766	12821	12876	12931	12986	13041	13096	13151	13206	13261	13316	13371	13426	13481	13536	13591	13646	13701	13756	13811	13866	13921	13976	14031	14086	14141	14196	14251	14306	14361	14416	14471	14526	14581	14636	14691	14746	14801	14856	14911	14966	15021	15076	15131	15186	15241	15296	15351	15406	15461	15516	15571	15626	15681	15736	15791	15846	15901	15956	16011	16066	16121	16176	16231	16286	16341	16396	16451	16506	16561	16616	16671	16726	16781	16836	16891	16946	17001	17056	17111	17166	17221	17276	17331	17386	17441	17496	17551	17606	17661	17716	17771	17826	17881	17936	17991	18046	18101	18156	18211	18266	18321	18376	18431	18486	18541	18596	18651	18706	18761	18816	18871	18926	18981	19036	19091	19146	19201	19256	19311	19366	19421	19476	19531	19586	19641	19696	19751	19806	19861	19916	19971	20026	20081	20136	20191	20246	20301	20356	20411	20466	20521	20576	20631	20686	20741	20796	20851	20906	20961	21016	21071	21126	21181	21236	21291	21346	21401	21456	21511	21566	21621	21676	21731	21786	21841	21896	21951	22006	22061	22116	22171	22226	22281	22336	22391	22446	22501	22556	22611	22666	22721	22776	22831	22886	22941	22996	23051	23106	23161	23216	23271	23326	23381	23436	23491	23546	23601	23656	23711	23766	23821	23876	23931	23986	24041	24096	24151	24206	24261	24316	24371	24426	24481	24536	24591	24646	24701	24756	24811	24866	24921	24976	25031	25086	25141	25196	25251	25306	25361	25416	25471	25526	25581	25636	25691	25746	25801	25856	25911	25966	26021	26076	26131	26186	26241	26296	26351	26406	26461	26516	26571	26626	26681	26736	26791	26846	26901	26956	27011	27066	27121	27176	27231	27286	27341	27396	27451	27506	27561	27616	27671	27726	27781	27836	27891	27946	28001	28056	28111	28166	28221	28276	28331	28386	28441	28496	28551	28606	28661	28716	28771	28826	28881	28936	28991	29046	29101	29156	29211	29266	29321	29376	29431	29486	29541	29596	29651	29706	29761	29816	29871	29926	29981	30036	30091	30146	30201	30256	30311	30366	30421	30476	30531	30586	30641	30696	30751	30806	30861	30916	30971	31026	31081	31136	31191	31246	31301	31356	31411	31466	31521	31576	31631	31686	31741	31796	31851	31906	31961	32016	32071	32126	32181	32236	32291	32346	32401	32456	32511	32566	32621	32676	32731	32786	32841	32896	32951	33006	33061	33116	33171	33226	33281	33336	33391	33446	33501	33556	33611	33666	33721	33776	33831	33886	33941	33996	34051	34106	34161	34216	34271	34326	34381	34436	34491	34546	34601	34656	34711	34766	34821	34876	34931	34986	35041	35096	35151	35206	35261	35316	35371	35426	35481	35536	35591	35646	35701	35756	35811	35866	35921	35976	36031	36086	36141	36196	36251	36306	36361	36416	36471	36526	36581	36636	36691	36746	36801	36856	36911	36966	37021	37076	37131	37186	37241	37296	37351	37406	37461	37516	37571	37626	37681	37736	37791	37846	37901	37956	38011	38066	38121	38176	38231	38286	38341	38396	38451	38506	38561	38616	38671	38726	38781	38836	38891	38946	39001	39056	39111	39166	39221	39276	39331	39386	39441	39496	39551	39606	39661	39716	39771	39826	39881	39936	39991	40046	40101	40156	40211	40266	40321	40376	40431	40486	40541	40596	40651	40706	40761	40816	40871	40926	40981	41036	41091	41146	41201	41256	41311	41366	41421	41476	41531	41586	41641	41696	41751	41806	41861	41916	41971	42026	42081	42136	42191	42246	42301	42356	42411	42466	42521	42576	42631	42686	42741	42796	42851	42906	42961	43016	43071	43126	43181	43236	43291	43346	43401	43456	43511	43566	43621	43676	43731	43786	43841	43896	43951	44006	44061	44116	44171	44226	44281	44336	44391	44446	44501	44556	44611	44666	44721	44776	44831	44886	44941	44996	45051	45106	45161	45216	45271	45326	45381	45436	45491	45546	45601	45656	45711	45766	45821	45876	45931	45986	46041	46096	46151	46206	46261	46316	46371	46426	46481	46536	46591	46646	46701	46756	46811	46866	46921	46976	47031	47086	47141	47196	47251	47306	47361	47416	47471	47526	47581	47636	47691	47746	47801	47856	47911	47966	48021	48076	48131	48186	48241	48296	48351	48406	48461	48516	48571	48626	48681	48736	48791	48846	48901	48956	49011	49066	49121	49176	49231	49286	49341	49396	49451	49506	49561	49616	49671	49726	49781	49836	49891	49946	50001	50056	50111	50166	50221	50276	50331	50386	50441	50496	50551	50606	50661	50716	50771	50826	50881	50936	50991	51046	51101	51156	51211	51266	51321	51376	51431	51486	51541	51596	51651	51706	51761	51816	51871	51926	51981	52036	52091	52146	52201	52256	52311	52366	52421	52476	52531	52586	52641	52696	52751	52806	52861	52916	52971	53026	53081	53136	53191	53246	53301	53356	53411	53466	53521	53576	53631	53686	53741	53796	53851	53906	53961	54016	54071	54126	54181	54236	54291	54346	54401	54456	54511	54566	54621	54676	54731	54786	54841	54896	54951	55006	55061	55116	55171	55226	55281	55336	55391	55446	55501	55556	55611	55666	55721	55776	55831	55886	55941	55996	56051	56106	56161	56216	56271	56326	56381	56436	56491	56546	56601	56656	56711	56766	56821	56876	56931	56986	57041	57096	57151	57206	57261	57316	57371	57426	57481	57536	57591	57646	57701	57756	57811	57866	57921	57976	58031	58086	58141	58196	58251

## • STANDARD SPECIFICATIONS

**BELT**—Black Trackmate 120 Roughtop with PVC cover. Clipper lacing.

**BED**—12 ga. galvanized slider pan mounted in 6 ½ in. x 12 ga. powder painted, formed steel channel frame. Standard 4 ft., 6 ft., 8 ft., and 10 ft. long sections bolt together with splice plates.

**DOUBLE NOSE-OVER**—A 26 in. long horizontal and a 12 in. long nose-over section provides a two-step transition of product from incline to horizontal. Provides up to 30° incline adjustment.

**LOWER POWERED FEEDER**—Chain type driven from tail pulley of inclined conveyor. Supports not included in base price.

**CENTER DRIVE**—Located on the incline section. Chain guard located on left hand side.

**DRIVE PULLEY**—8 in. dia. with 1 ⅞ in. dia. shaft at bearings, machine crowned and fully lagged.

**TAIL PULLEY**—4 in. dia. with 1 in. dia. shaft at bearings or 6 in. dia. with 1 ¾ in. dia. shaft at bearings, machine crowned.

**TAKE-UP PULLEY**—6 in. dia. with 1 ¾ in. dia. shaft at bearings, machine crowned.

**TAKE-UP**—Take-ups in center drive provides 16 in. of belt take-up.

**SNUB IDLER/NOSE-OVER ROLLERS**—Adjustable 2 ⅞ in. dia. or 2 ½ in. dia. pre-lubricated ball bearings. Snub guards included.

**RETURN IDLER**—Adjustable 1.9 in. dia., pre-lubricated ball bearings.

**BEARINGS**—Sealed, pre-lubricated, self-aligning, ball bearings on drive, tail and take-up pulley.

**SPEED REDUCTION**—Sealed worm gear C-Face speed reducer. No. 50 roller chain to drive pulley.

**MOTOR**—1 HP—208/230/460/575V—3 Ph. 60 Hz. Totally Enclosed C-Face “SSB” Brake Motor (6 ft./lb.).

**BELT SPEED**—Constant 65 FPM.

**CAPACITY**—Maximum load per linear foot of conveyor 100 lbs. NOT TO EXCEED capacity in charts.

**FLOOR SUPPORTS**—Now supplied as optional equipment.

BR	BELT WIDTH	OAW	FEEDER LENGTH
13"	10"	16"	35 ½"
15"	12"	18"	
17"	14"	20"	
19"	16"	22"	
21"	18"	24"	50 ½"
23"	20"	26"	
25"	22"	28"	
27"	24"	30"	
31"	28"	34"	79 ½"
33"	30"	36"	
37"	34"	40"	91 ½"
39"	36"	42"	

LOAD CAPACITY CHART 25° INCLINE @ 65 FPM W/ROUGHTOP BELT			
HP	BELT WIDTHS TO	LENGTHS UP TO	
		14'	44'
DISTRIBUTED LOAD (LBS.)			
1	22"	390	375
	30"	380	355
	36"	375	340
2	22"	810	790
	30"	800	770
	36"	790	755

## • OPTIONAL EQUIPMENT

**FLOOR SUPPORTS**—MS Type floor supports are available with a wide range of adjustment. Specify top of belt or roller elevation. One support required at every bed joint and ends of conveyor. Holes in feet for lagging to floor. Knee braces recommended above MS-3 support.

**BELT**—Brown Polymate Roughtop w/Nitrile cover, Pure Gum Rubber Roughtop.

**BELT SPEED**—Other constant and variable speeds V-belt drive supplied on speeds under 20 FPM (1 HP), 46 FPM (2 HP). **NOTE:** Capacity affected with speed change.

**V-BELT DRIVE**—V-belt supplied between motor and reducer. Allow 65 in.

**O-RING DRIVE CHAIN**—With sealed in lubricant (Recommended for applications that do not permit regular lubrication).

**GUARD RAILS**—Adjustable Universal Channel Guard Rail, overlapping fixed channel (one direction), non-overlapping fixed channel (bi-directional).

**PULLEYS**—6 in. dia. tail pulley with 1 ¾ in. dia. shaft at bearings in place of 4 in. when not furnished as standard.

**CEILING HANGERS**—¾ in. dia. x 8 ft. long unplated rods fully threaded. Other lengths and galvanized rods available.

**UNDERTRUSSING**—Available in place of ceiling hangers. Maximum bed length 40 ft. Maximum overall width 30 in.

**MOTORS**—Energy efficient, single phase, other characteristics. 2 HP maximum.

**ELECTRICAL CONTROLS**—Non-reversing and reversible magnetic starters and push button stations. AC variable frequency drive.