

# GRAVITY CONVEYORS

## FLEXIBLE CONVEYOR



The Roach Flexible conveyor was designed for those times when a fixed conveyor is not applicable. Engineered with the workplace in mind the Flexible is built from quality components that can withstand the rigors of loading docks and back room areas while handling a wide variety of materials. Manufactured in the tradition of Roach excellence the Flexible is one conveyor that will last for years to come.

Model No.	Width	Axle Center	Wheel Per Axle	Contracted Length Expanded Length
FWC-18-3-6-LENGTH	18"	3"	6	2:1 Ratio
FWC-18-4-6-LENGTH	18"	4"	6	2.5:1 Ratio
FWC-18-5-6-LENGTH	18"	5"	6	3:1 Ratio
FWC-24-3-8-LENGTH	24"	3"	8	2:1 Ratio
FWC-24-4-8-LENGTH	24"	4"	8	2.5:1 Ratio
FWC-24-5-8-LENGTH	24"	5"	8	3:1 Ratio
FWC-30-3-10-LENGTH	30"	3"	10	2:1 Ratio
FWC-30-4-10-LENGTH	30"	4"	10	2.5:1 Ratio
FWC-30-5-10-LENGTH	30"	5"	10	3:1 Ratio



### SPECIFICATIONS

**WHEELS:** 1-15/16" dia. prelubricated steel ball bearing skate wheel with hardened raceway.

**AXLES:** Heavy duty 5/16" galvanized steel bolt type axle and lock nut. 5" axle centers.

**SIDE LINKS:** Heavy duty 7 gauge steel.

**LEG SUPPORTS:** Solid weld construction. Four point leg support connections. Handles on each leg.

**CASTERS:** 6" x 2" casters.

**CONVEYING SURFACE:** 18", 24", 30"

**HEIGHT ADJUSTMENT:** 28-1/2" TO 40"

**EXPANSION RATIO:** 3:1 with 5" axle centers.

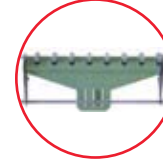
**CAPACITY:** 350 lb. per FT.



HANDLE



SKATE WHEEL



SKATE WHEEL &  
AXLE SUPPORT



SIDE LINKS

### OPTIONS

- 2:1 Ratio with 3" axle center
- 2.5:1 Ratio with 4" axle center
- Fixed and retractable end stops
- Impact load table



■ 3 week shipment

# GRAVITY CONVEYORS RAIL WHEEL CONVEYORS

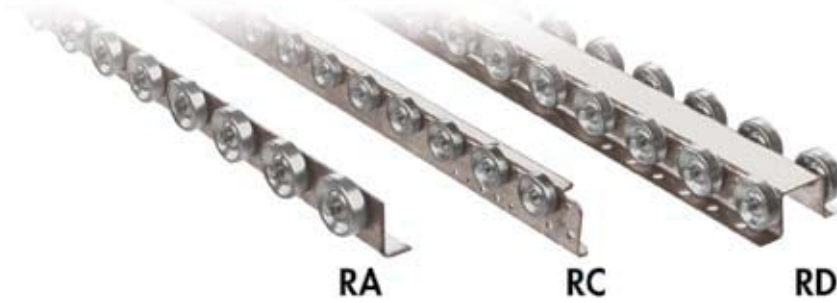
24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON RAIL WHEELS

SPECIFY MODEL NUMBER PER EXAMPLE

**RA-4**

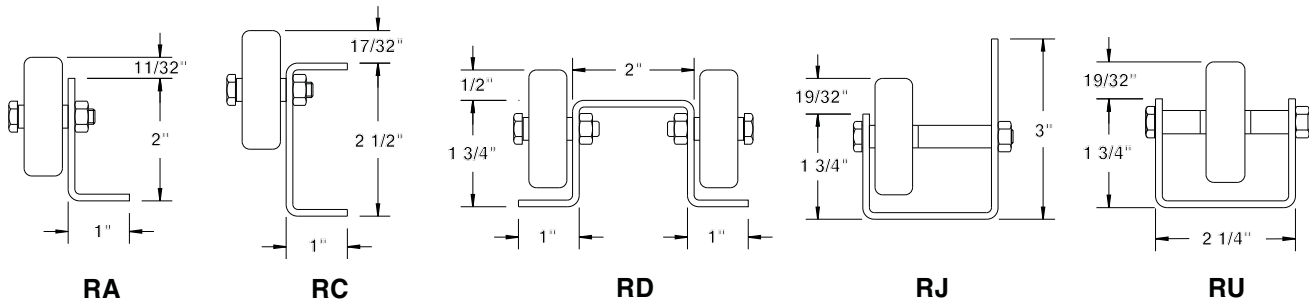
R(rail wheel configuration\*)-(length)

\*Specify RA, RC, RD, RJ or RU.



For replacement wheels, refer to part #BRW04600

Rail wheel conveyors are commonly floor or rack mounted to convey unit loads utilizing an arrangement of two or more rail conveyors mounted parallel. Rail wheel conveyors are lightweight, economical and ship in 24 hours.



## SPECIFICATIONS

**RAILS:** 12 ga. galvanized steel rails are formed to several different configurations, including RA, RC, RD, RJ, and RU rail wheel conveyors.

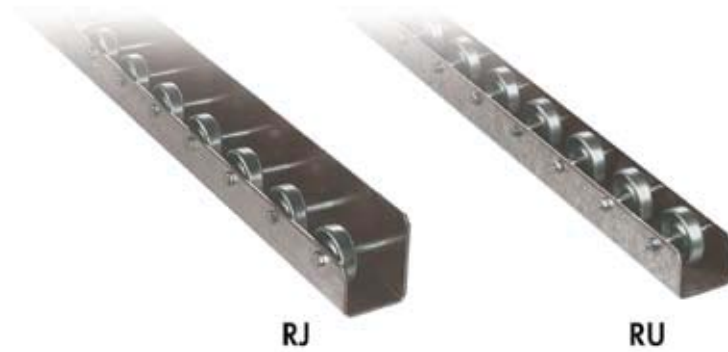
**WHEELS:** 1-15/16" dia. prelubricated ball bearing wheel with hardened raceway, zinc plated, 50 lb. capacity.

**AXLES:** 1/4" dia. galvanized steel bolt-type with lock nut.

**LENGTHS:** Available in 1'-0" increments from 1'-0" to 10'-0".

**COUPLINGS:** Not supplied, specify type required for pricing.

**WHEEL CENTERS:** 3" centers typical on all patterns.



## TECHNICAL DATA

MODEL	Weights Per FT. (lbs.)	Weights Per 10' (lbs.)	Max. Frame Capacity per FT. (lbs.) 5' Support Center	Max. Frame Capacity per FT. (lbs.) 10' Support Center
RA	1.7	17	50	6
RC	2.2	22	146	18
RD	3.8	38	125	15
RJ	3.1	31	198	24
RU	2.7	27	113	14



# GRAVITY CONVEYORS RAIL WHEEL CONVEYORS

24 HOUR SHIPMENTS INCLUDE ALL 1'-0" INCREMENTS 1'-0" TO 10'-0" ON MODEL RCD

**SPECIFY MODEL NUMBER PER EXAMPLE**

**RCD1.5-9**

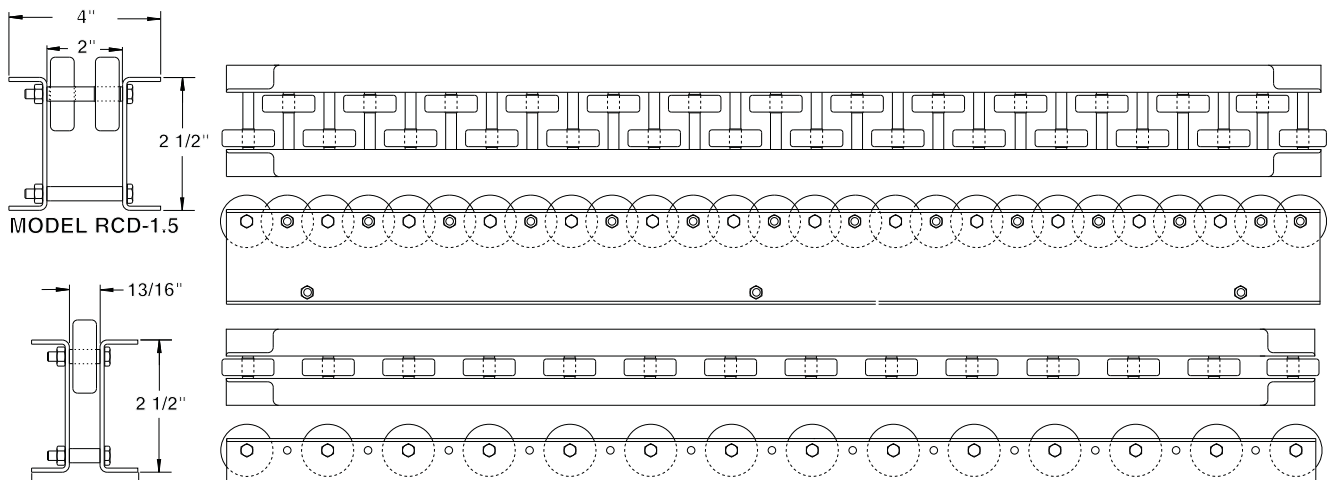
RCD(wheel configuration\*)-(length)

\*Specify 1.5 for 1-1/2" staggered wheel pattern or 3 for 3" wheel pattern.



For replacement wheels, refer to part #BRW04600

**NEW from Roach! Model RCD rail wheel conveyors!** New rail wheel model RCD is available in two popular styles for 24 hour shipment. Model RCD-3 features wheels on 3" pattern while model RCD-1.5 includes 1-1/2" staggered dense wheel pattern.



## SPECIFICATIONS

**RAILS:** 12 ga. galvanized steel rails are formed to two varying width rail wheel conveyors, models RCD.

**WHEELS:** 1-15/16" dia. prelubricated ball bearing wheel with hardened raceway, zinc plated, 50 lb. capacity.

**AXLES:** 1/4" dia. galvanized steel bolt-type with lock nut.

**LENGTHS:** Available in 1'-0" increments from 1'-0" to 10'-0".

**COUPLINGS:** Not supplied, specify type required for pricing.

**WHEEL CENTERS:** Wheels provided on 3" centers with model RCD3; wheels provided on 1-1/2" centers, staggered pattern on model RCD1.5.

## TECHNICAL DATA

Model	Weights Per FT. (lbs.)	Weights Per 10' (lbs..)	Wheels Per FT.	Max. Frame Capacity Per FT. (lbs.) 5' Support Center	Max. Frame Capacity Per FT. (lbs.) 10' Support Center
RCD-1.5	4.3	43	8	130	35
RCD-3	3.4	34	4	130	35



■ 24 hour shipment

# MODEL WA/WS GRAVITY WHEEL CONVEYOR

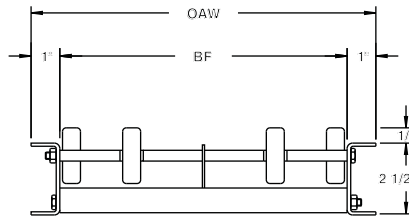
24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS



Optional: Use SL supports on page 138



For replacement wheels, refer to part #BRW04600 for zinc plated or #BRW04610 for aluminum.



## STRAIGHT SECTION MODEL NUMBER

**WA-24-20-10**

(aluminum or galv. steel\*)-(overall width)-  
(wheels per foot)-(length)

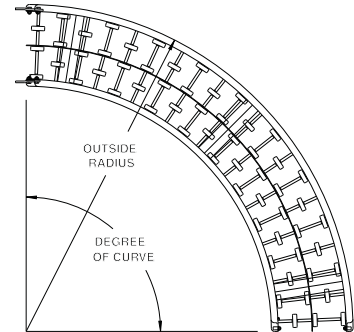
\*Specify WA for aluminum frame; WS for galv. steel.

## CURVED SECTION MODEL NUMBER

**WSC-24-90**

(aluminum or galv. steel\*)-(overall width)-(degree)

\*Specify WAC for aluminum frame; WSC for galv. steel.



## SPECIFICATIONS

**WHEELS:** 1-15/16" dia. prelubricated ball bearing wheel with hardened raceway. Aluminum wheel capacity is 25 lbs. per wheel; zinc-plated wheel capacity is 50 lbs. per wheel.

**AXLES:** 1/4" dia. galvanized steel bolt-type axle and lock nut.

**FRAMES:** Formed heat-treated aluminum channel 2-1/2" x 1" x 1/8"; formed galvanized steel channel 2-1/2" x 1" x 1/2 ga.

**COUPLINGS:** Hook and rod; hooks on one end and rod ("stud") other end.

**FRAME CAPACITY:** Aluminum 160 lbs. max. distributed live load per 10' section or 750 lbs. per 5' section; galv. steel 350 lbs. max. distributed live load per 10' section, or 1300 lbs. per 5' section.

**RADIUS (CURVES):** 4' or 5' outside radius. See chart below.

STRAIGHT SECTION						CURVED SECTIONS				
Overall Width	Wheels Per Ft.	Model WA Alu. 10' WT. (lbs.)	Model WA Alu. Per Ft. WT. (lbs.)	Model WS Gal. 10' WT. (lbs.)	Model WS Gal. Per Ft. WT. (lbs.)	Curve Outside Radius	Model WAC Alu. 90° WT. (lbs.)	Model WAC Alu. 45° WT. (lbs.)	Model WSC Galv. 90° WT. (lbs.)	Model WSC Galv. 45° WT. (lbs.)
12"	6	33	3.3	64	6.4	-	-	-	-	-
	8	35	3.5	67	6.7	-	-	-	-	-
	10	37	3.7	70	7.0	4'	44	22	70	35
	12	39	3.9	74	7.4	-	-	-	-	-
	16	43	4.3	81	8.1	-	-	-	-	-
18"	12	42	4.2	78	7.8	-	-	-	-	-
	14	44	4.4	85	8.5	-	-	-	-	-
	16	46	4.6	88	8.8	4'	50	26	80	43
	18	50	5.0	93	9.3	-	-	-	-	-
	20	52	5.2	99	9.9	-	-	-	-	-
24"	16	51	5.1	96	9.6	-	-	-	-	-
	18	53	5.3	102	10.2	-	-	-	-	-
	20	55	5.5	105	10.5	4'	54	29	92	49
	24	59	5.9	113	11.3	-	-	-	-	-
	28	63	6.3	119	11.9	-	-	-	-	-
30"	24	-	-	148	14.8	-	-	-	-	-
	32	-	-	169	16.9	5'	-	-	104	59
	40	-	-	190	19	-	-	-	-	-

**NOTE:** Model WA & WAC wheel conveyor includes aluminum frame and aluminum wheels; model WS & WSC includes galvanized steel frame and zinc-plated wheels.



### WARNING

Prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors and other equipment!

■ 24 hour shipment

# MODEL 138A/138G 1-3/8" DIA. X 18 GA. GRAVITY ROLLER CONVEYOR

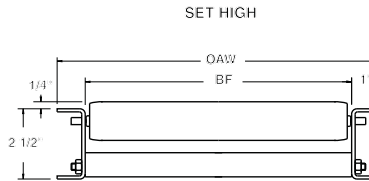
24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS



Optional: Use SL supports on page 138

Double roller curves (24" OAW models only)

Single roller curves (12" & 18" OAW models only)

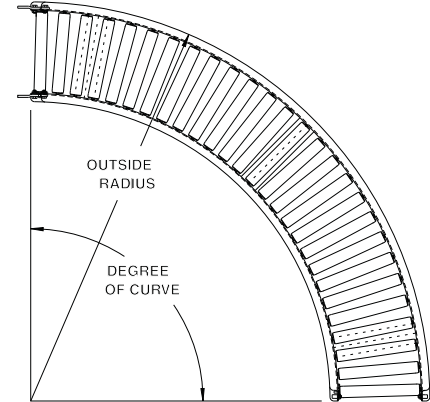


## STRAIGHT SECTION MODEL NUMBER 138G-18-3-H-8

(aluminum or galvanized steel\*)-(overall width)-  
(roller centers)-(set high or low)-(length)  
\*Specify 138A for aluminum frame; 138G for galv. steel.

## CURVED SECTION MODEL NUMBER 138AC-12-H-45

(aluminum or galv. steel\*)-(overall width)-  
(set high or low)-(degree)  
\*Specify 138AC for alum. frame; 138GC for galv. steel.



## SPECIFICATIONS

**ROLLERS:** 1-3/8" dia. x 18 ga. tubing available in heat treated alum. (model 138A) or galv. steel (model 138G); both with smooth swaged ends. Roller capacity is 35 lbs. for 138A; 50 lbs. for 138G.

**AXLES:** 1/4" dia. galvanized steel shaft, spring loaded.

**FRAMES:** Formed heat treated aluminum channel 2-1/2" x 1" x 1/8"; formed galvanized steel channel 2-1/2" x 1" x 12 ga.

**COUPLINGS:** Hook and rod; hooks on one end and rod ("stud") other end.

**BEARINGS:** Integral plain ball bearings, zinc plated, oiled.

**FRAME CAPACITY:** Aluminum 160 lbs. max. distributed live load per 10' section or 750 lbs. per 5' section; galv. steel 350 lbs. max. distributed live load per 10' section, or 1300 lbs. per 5' section.

STRAIGHT SECTION								CURVED SECTIONS					
Roller Centers	Length	Model 138A Alu. 12" OAW WT. (lbs.)	Model 138A Alu. 18" OAW WT. (lbs.)	Model 138A Alu. 24" OAW WT. (lbs.)	Model 138G Gal. 12" OAW WT. (lbs.)	Model 138G Gal. 18" OAW WT. (lbs.)	Model 138G Gal. 24" OAW WT. (lbs.)	Curve Width	Curve Outside Radius	Roller Design	Curve Degree	Model 138AC Alu. WT. (lbs.)	Model 138GC Gal. WT. (lbs.)
1.5"	10'	42	60	77	93	131	168	12"	4'	Single	90°	42	42
3"	10'	28	38	47	65	85	106	12"	4'	Single	45°	25	25
4.5"	10'	24	31	37	56	70	85	18"	4'	Single	90°	67	67
6"	10'	21	27	32	51	63	75	18"	4'	Single	45°	42	42
9"	10'	19	23	28	46	55	64	24"	4'	Double	90°	92	92
12"	10'	18	22	25	44	52	59	24"	4'	Double	45°	58	58

**NOTE:** Nominal 1.5" roller centers on all curved section inside channels.



## WARNING

Prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors and other equipment!

■ 24 hour shipment

# MODEL 196G 1.9" DIA. X 16 GA. GALVANIZED STEEL GRAVITY ROLLER CONV.

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS

**STRAIGHT SECTION MODEL NUMBER**  
196G-21-3-H-9

196G-(between frames)-(roller centers)-  
(set high or low)-(length)

**CURVED SECTION MODEL NUMBER**  
196GC-39-H-90

196GC-(between frames)-(set high or low)-(degree)



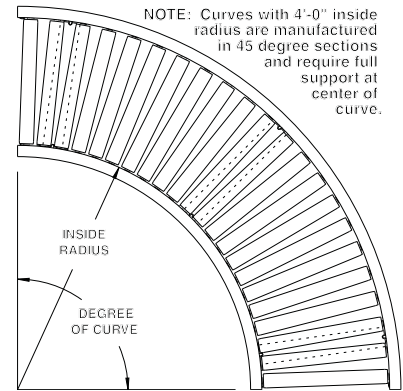
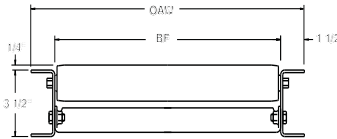
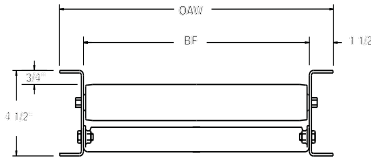
Optional: Use SM supports  
on page 138



Double roller design



Single roller design



## SPECIFICATIONS

**ROLLERS:** 1.9" x 16 ga. galv. steel tubing, model 196G, with smooth swaged ends.

**FRAMES:** Formed steel painted channel 3-1/2" x 1-1/2" x 10 ga. set high; 4-1/2" x 1-1/2" x 10 ga. set low.

**BEARINGS:** Integral plain ball bearings, zinc plated, grease packed.

**FRAME CAPACITY:** 250 lbs. per roller, or 1300 lbs. maximum distributed live load per 10' section with supports at 10' centers; 3200 lbs. at 5' centers.

**COUPLINGS:** Butt type.

**AXLES:** 7/16" hex shaft, spring loaded.

**OPTIONAL FRAME:** 4" @ 5.4 lbs. struc. steel channel frame, rollers 3/16" high, may vary due to structural tolerances.

STRAIGHT SECTION (WT lbs.)							CURVED SECTIONS						
Normal Roller Length	Between Frames	3" RC 10'	4.5" RC 10'	6" RC 10'	9" RC 10'	12" RC 10'	Curve Inside Radius	Curve Roller Design	90° Rollers Per Curve	90° WT. lbs.	45° Rollers Per Curve	45° WT. lbs.	
*6"	*7"	123	103	94	84	79	-	-	-	-	-	-	
12"	13"	165	133	117	101	93	2'-8-1/2"	Single	22	217	11	120	
14"	15"	179	143	124	106	97	2'-8-1/2"	Single	22	246	11	134	
16"	17"	193	152	132	112	102	2'-8-1/2"	Single	22	274	11	147	
18"	19"	207	162	140	118	107	2'-8-1/2"	Single	22	303	11	161	
20'	21"	221	172	148	123	111	2'-8-1/2"	Single	22	331	11	175	
22"	23"	234	182	155	129	116	2'-8-1/2"	Double	41	360	21	188	
24"	25"	248	191	163	135	120	2'-8-1/2"	Double	41	388	21	202	
26"	27"	262	201	171	140	125	2'-8-1/2"	Double	41	417	21	216	
30"	31"	290	221	186	152	134	4'	Double	40	474	20	243	
32"	33"	304	231	194	157	129	4'	Double	40	503	20	257	
36"	37"	332	250	209	168	148	4'	Double	40	560	20	284	
38"	39"	346	260	217	174	153	4'	Double	40	589	20	298	
42"	43"	374	280	233	185	162	4'	Double	40	646	20	325	
46"	47"	401	299	248	197	171	4'	Double	40	703	20	353	
50"	51"	429	319	263	208	180	4'	Double	40	760	20	380	
Per Foot		7	5	4	3	2	Per Foot		-	14	-	7	

\*7" BF straight sections furnished with spring loaded shafts in set high position ONLY.



### WARNING

To prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors, use connector brackets with safety pop-out rollers shown on pg. 100.

■ 24 hour shipment

# MODEL 196S 1.9" DIA. X 16 GA. STEEL GRAVITY ROLLER CONVEYOR

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS

**STRAIGHT SECTION MODEL NUMBER**  
196S-13-6-L-6

196S-(between frames)-(roller centers)-  
(set high or low)-(length)

**CURVED SECTION MODEL NUMBER**  
196SC-21-H-45

196SC-(between frames)-(set high or low)-(degree)



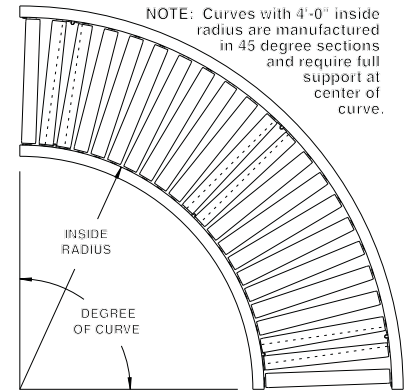
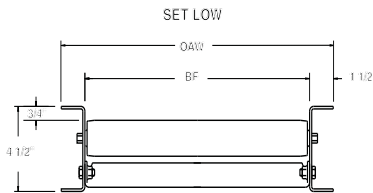
Optional: Use SM supports  
on page 138



Double roller design



Single roller design



## SPECIFICATIONS

**ROLLERS:** 1.9" x 16 ga. steel tubing, model 196S, with smooth swaged ends.

**FRAMES:** Formed steel painted channel 3-1/2" x 1-1/2" x 10 ga. set high; 4-1/2" x 1-1/2" x 10 ga. set low.

**BEARINGS:** Integral plain ball bearings, zinc plated, grease packed.

**FRAME CAPACITY:** 250 lbs. per roller, or 1300 lbs. maximum distributed live load per 10' section with supports at 10' centers; 3200 lbs. at 5' centers.

**COUPLINGS:** Butt type.

**AXLES:** 7/16" hex shaft, spring loaded.

**OPTIONAL FRAME:** 4" @ 5.4 lbs. struc. steel channel frame, rollers 3/16" high, may vary due to structural tolerances.

STRAIGHT SECTION (WT lbs.)							CURVED SECTIONS					
Normal Roller Length	Between Frames	3" RC 10'	4.5" RC 10'	6" RC 10'	9" RC 10'	12" RC 10'	Curve Inside Radius	Curve Roller Design	90° Rollers Per Curve	45° WT. lbs.	45° Rollers Per Curve	45° WT. lbs.
*6"	*7"	123	103	94	84	79	-	-	-	-	-	-
12"	13"	164	133	117	101	93	2'-8-1/2"	Single	22	217	11	120
14"	15"	178	142	124	106	97	2'-8-1/2"	Single	22	246	11	134
16"	17"	192	152	132	112	102	2'-8-1/2"	Single	22	274	11	147
18"	19"	206	162	140	118	107	2'-8-1/2"	Single	22	303	11	161
20"	21"	219	171	147	123	111	2'-8-1/2"	Single	22	331	11	175
22"	23"	233	181	155	129	116	2'-8-1/2"	Double	41	360	21	188
24"	25"	247	191	163	134	120	2'-8-1/2"	Double	41	388	21	202
26"	27"	261	200	170	140	125	2'-8-1/2"	Double	41	417	21	216
30"	31"	288	220	185	151	134	4'	Double	40	474	20	243
32"	33"	302	229	193	157	139	4'	Double	40	503	20	257
36"	37"	330	249	208	168	148	4'	Double	40	560	20	284
38"	39"	343	259	216	174	152	4'	Double	40	589	20	298
42"	43"	371	278	231	185	162	4'	Double	40	646	20	325
46"	47"	398	297	247	196	171	4'	Double	40	703	20	353
50"	51"	426	317	262	207	180	4'	Double	40	760	20	380
Per Foot		7	5	4	3	2	Per Foot		-	14	-	7

\*7" BF straight sections furnished with spring loaded shafts in set high position ONLY.



### WARNING

Prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors and other equipment!

■ 24 hour shipment

# MODEL 192S 1.9" DIA. X 12 GA. GRAVITY ROLLER CONVEYOR

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS

**STRAIGHT SECTION MODEL NUMBER**  
192S-13-3-H-5  
192S-(between frames)-(roller centers)-  
(set high or low)-(length)

**CURVED SECTION MODEL NUMBER**  
192SC-27-H-90  
192SC-(between frames)-(set high or low)-(degree)



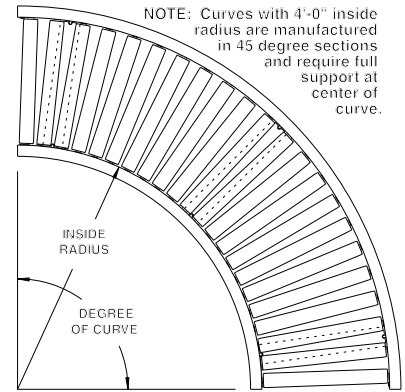
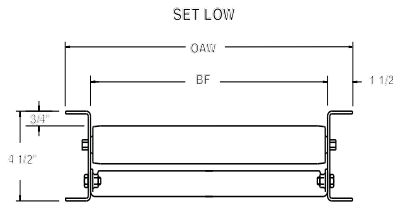
Optional: Use SM supports on page 138



Double roller design



Single roller design



## SPECIFICATIONS

**ROLLERS:** 1.9" x 12 ga. steel tubing, model 192S, with smooth swaged ends.

**FRAMES:** Formed steel painted channel 3-1/2" x 1-1/2" x 10 ga. set high; 4-1/2" x 1-1/2" x 10 ga. set low.

**ROLLER CAPACITY:** 260 lbs. per roller.

**BEARINGS:** Integral plain ball bearings, zinc plated, grease packed.

**FRAME CAPACITY:** 1300 lbs. maximum distributed live load per 10' section with supports at 10' centers; 3200 lbs. at 5' centers.

**COUPLINGS:** Butt type.

**AXLES:** 7/16" hex shaft, spring loaded.

**OPTIONAL FRAME:** 4" @ 5.4 lbs. struc. steel channel frame, rollers 3/16" high, may vary due to structural tolerances.

STRAIGHT SECTION (WT lbs.)							CURVED SECTIONS						
Normal Roller Length	Between Frames	3' RC 10'	4.5" RC 10'	6" RC 10'	9" RC 10'	12" RC 10'	Curve Inside Radius	Curve Roller Design	90° Rollers Per Curve	90° WT. lbs.	45° Rollers Per Curve	45° WT. lbs.	
12"	13"	196	153	132	111	100	2'-8-1/2"	Single	22	217	11	120	
14"	15"	215	167	142	118	106	2'-8-1/2"	Single	22	246	11	134	
16"	17"	235	180	153	126	112	2'-8-1/2"	Single	22	274	11	147	
18"	19"	254	194	163	133	118	2'-8-1/2"	Single	22	303	11	161	
20"	21"	273	207	174	141	124	2'-8-1/2"	Single	22	331	11	175	
22"	23"	293	220	184	148	130	2'-8-1/2"	Double	41	360	21	188	
24"	25"	312	234	195	156	136	2'-8-1/2"	Double	41	388	21	202	
26"	27"	332	247	205	163	142	2'-8-1/2"	Double	41	417	21	216	
30"	31"	370	274	226	178	154	4'	Double	40	474	20	243	
32"	33"	390	288	237	186	160	4'	Double	40	503	20	257	
36"	37"	428	314	257	200	172	4'	Double	40	560	20	284	
38"	39"	448	328	268	208	178	4'	Double	40	589	20	298	
42"	43"	487	355	289	223	190	4'	Double	40	646	20	325	
46"	47"	525	382	310	238	202	4'	Double	40	703	20	353	
50"	51"	564	408	331	253	214	4'	Double	40	760	20	380	
Per Foot		10	7	5	4	3	Per Foot		-	14	-	7	



### WARNING

To prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors, use connector brackets with safety pop-out rollers shown on pg. 100.

■ 24 hour shipment



# MODEL 199S 1.9" DIA. X 9 GA. GRAVITY ROLLER CONVEYOR

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS

**STRAIGHT SECTION MODEL NUMBER**  
199S-51-3-H-10

199S-(between frames)-(roller centers)-  
(set high or low)-(length)

**CURVED SECTION MODEL NUMBER**  
199SC-37-H-90

199SC-(between frames)-(set high or low)-(degree)



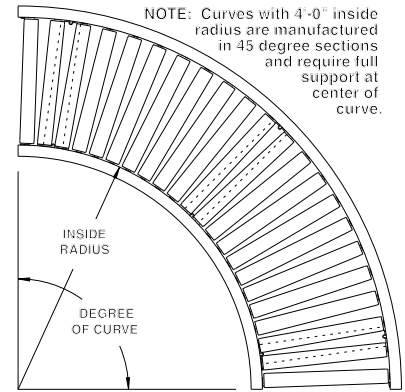
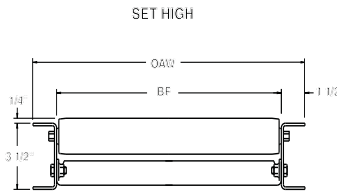
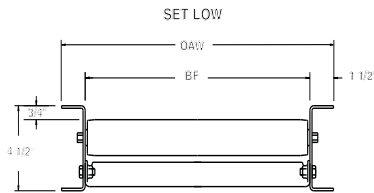
Optional: Use SM supports  
on page 138



Double roller design



Single roller design



## SPECIFICATIONS

**ROLLERS:** 1.9" x 9 ga. steel tubing, model 199S, with straight ends reamed to provide smooth bearing seats.

**FRAMES:** Formed steel painted channel 3-1/2" x 1-1/2" x 10 ga. set high; 4-1/2" x 1-1/2" x 10 ga. set low.

**ROLLER CAPACITY:** 260 lbs. per roller.

**BEARINGS:** Integral plain ball bearings, zinc plated, grease packed.

**FRAME CAPACITY:** 1300 lbs. max. distributed live load per 10' section with supports at 10' centers; 3200 lbs. at 5' ctrs.

**COUPLINGS:** Butt type.

**AXLES:** 7/16" hex shaft, spring loaded.

**OPTIONAL FRAME:** 4" @ 5.4 lbs. struc. steel channel frame, rollers 3/16" high, may vary due to structural tolerances.

STRAIGHT SECTION (WT lbs.)							CURVED SECTIONS					
Normal Roller Length	Between Frames	3" RC 10'	4.5" RC 10'	6" RC 10'	9" RC 10'	12" RC 10'	Curve Inside Radius	Curve Roller Design	90° Rollers Per Curve	90° WT. lbs.	45° Rollers Per Curve	45° WT. lbs.
12"	13"	224	172	146	120	107	2'-8-1/2"	Single	22	217	9	120
14"	15"	248	188	159	129	114	2'-8-1/2"	Single	22	246	1	134
16"	17"	272	205	171	138	121	2'-8-1/2"	Single	22	274	9	147
18"	19"	296	221	184	147	128	2'-8-1/2"	Single	22	303	9	161
20'	21"	319	238	197	156	135	2'-8-1/2'	Single	22	331	9	175
22"	23"	343	254	209	165	143	2'-8-1/2"	Double	41	360	17	188
24"	25"	367	270	222	174	150	2'-8-1/2"	Double	41	388	17	202
26"	27"	391	287	235	183	157	2'-8-1/2"	Double	41	417	17	216
30"	31"	439	320	260	201	171	4'	Double	40	474	20	243
32"	33"	462	336	273	210	178	4'	Double	40	503	20	257
36"	37"	510	369	298	228	192	4'	Double	40	560	20	284
38"	39"	534	385	311	237	199	4'	Double	40	589	20	298
42"	43"	582	418	336	254	214	4'	Double	40	646	20	325
46"	47"	629	451	362	272	228	4'	Double	40	703	20	353
50"	51"	677	484	387	290	242	4'	Double	40	760	20	380
Per Foot		12	8	6	4	4	Per Foot		-	14	-	7



### WARNING

Prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors and other equipment!

■ 24 hour shipment

# MODEL 254S 2-1/2" DIA. X 14 GA. STEEL GRAVITY ROLLER CONVEYOR

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS

**STRAIGHT SECTION MODEL NUMBER**  
254S-43-9-H-4  
254S-(between frames)-(roller centers)-  
(set high or low)-(length)

**CURVED SECTION MODEL NUMBER**  
254SC-19-H-45  
254SC-(between frames)-(set high or low)-(degree)



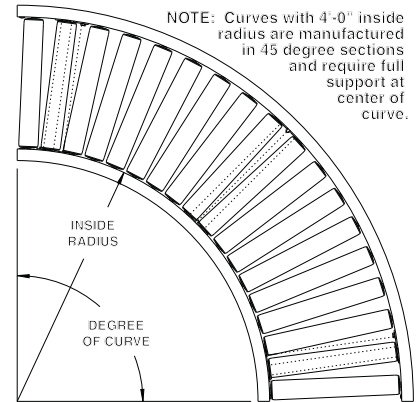
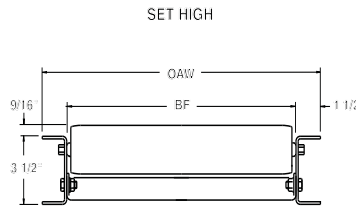
Optional: Use SM supports on page 138



Double roller design



Single roller design



## SPECIFICATIONS

**ROLLERS:** 2-1/2" x 14 ga. steel tubing, model 254S, with smooth swaged ends.

**FRAMES:** Formed steel painted channel 3-1/2" x 1-1/2" x 10 ga. set high; 4-1/2" x 1-1/2" x 10 ga. set low.

**ROLLER CAPACITY:** 290 lbs. per roller.

**BEARINGS:** Integral plain ball bearings, zinc plated, grease packed.

**FRAME CAPACITY:** 1300 lbs. maximum distributed live load per 10' section with supports at 10' centers; 3200 lbs. at 5' centers.

**COUPLINGS:** Butt type.

**AXLES:** 7/16" hex shaft, spring loaded.

**OPTIONAL FRAME:** For structural steel channel frame, see next page.

STRAIGHT SECTION (WT lbs.)							CURVED SECTIONS					
Normal Roller Length	Between Frames	3" RC 10'	4.5" RC 10'	6" RC 10'	9" RC 10'	12" RC 10'	Curve Inside Radius	Curve Roller Design	90° Rollers Per Curve	90° WT. lbs.	45° Rollers Per Curve	45° WT. lbs.
12"	13"	183	144	125	106	96	2'-8-1/2"	Single	18	217	9	120
14"	15"	203	158	136	113	102	2'-8-1/2"	Single	18	246	1	134
16"	17"	222	172	146	121	108	2'-8-1/2"	Single	18	274	9	147
18"	19"	242	185	157	129	114	2'-8-1/2"	Single	18	303	9	161
20'	21"	262	199	168	136	120	2'-8-1/2"	Single	18	331	9	175
22"	23"	281	213	178	144	127	2'-8-1/2"	Double	37	360	17	188
24"	25"	301	226	189	151	133	2'-8-1/2"	Double	37	388	17	202
26"	27"	321	240	199	159	139	2'-8-1/2"	Double	37	417	17	216
30"	31"	360	267	221	174	151	4'	Double	40	474	20	243
32"	33"	380	281	231	182	157	4'	Double	40	503	20	257
36"	37"	419	308	253	197	169	4'	Double	40	560	20	284
38"	39"	439	322	263	205	175	4'	Double	40	589	20	298
42"	43"	478	349	284	220	188	4'	Double	40	646	20	325
46"	47"	518	376	306	235	200	4'	Double	40	703	20	353
50"	51"	557	404	327	250	212	4'	Double	40	760	20	380
Per Foot		10	7	5	4	3	Per Foot		-	14	-	7

### WARNING

To prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors, use connector brackets with safety pop-out rollers shown on pg. 100.

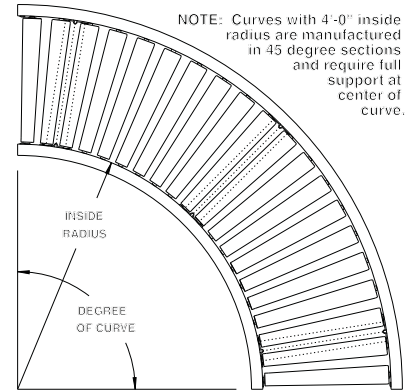
■ 24 hour shipment



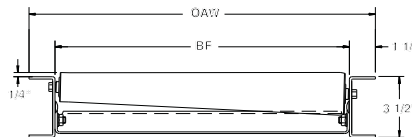
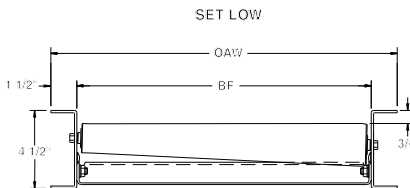
# MODEL 254TC 2-1/2" DIA. X 14 GA. TAPERED ROLLER CURVE

24 HOUR SHIPMENTS INCLUDE 45° AND 90° CURVES

254TC CURVED SECTION MODEL NUMBER  
254TC-13-H-90  
254TC-(between frames)-(set high or low)-(degree)



Optional: Use SM supports on page 138



## SPECIFICATIONS

**TAPERED ROLLERS:** 2-1/2" dia. to 1-11/16" dia. x 14 ga. steel tubing, model 254T, with smooth swaged ends.

**FRAMES:** Formed steel painted channel 3-1/2" x 1-1/2" x 10 ga. set high; 4-1/2" x 1-1/2" x 10 ga. set low.

**ROLLER CAPACITY:** 250 lbs. per roller.

**AXLES:** 7/16" hex shaft, spring loaded.

**BEARINGS:** Integral plain ball bearings, zinc plated, grease packed, removable type bearings.

**FRAME CAPACITY:** 650 lbs. maximum distributed live load with supports at each end of curve section and at the outside of a 90° curve section.

**COUPLINGS:** Butt type.

TAPERED ROLLER CURVES						
Normal Roller Length	Between Frames	CURVE INSIDE RADIUS	90° ROLLERS PER CURVE	90° WEIGHT lbs.	45° ROLLERS PER CURVE	45° WEIGHT lbs.
12"	13"	2'-8-1/2"	20	61	10	37
14"	15"	2'-8-1/2"	20	68	10	40
16"	17"	2'-8-1/2"	20	75	10	43
18"	19"	2'-8-1/2"	20	82	10	47
20"	21"	2'-8-1/2"	20	89	10	50
22"	23"	2'-8-1/2"	20	97	10	53
24"	25"	2'-8-1/2"	20	104	10	56
26"	27"	2'-8-1/2"	20	111	10	59
30"	31"	4'	32	125	16	66
32"	33"	4'	32	132	16	69
36"	37"	4'	32	146	16	76
38"	39"	4'	32	153	16	79
42"	43"	4'	32	168	16	85
46"	47"	4'	32	182	16	92
50"	51"	4'	32	196	16	98
Per Foot		-	-	4	-	2



### WARNING

Prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors and other equipment!

■ 24 hour shipment

# MODEL 251S 2-1/2" DIA. X 11 GA. STEEL GRAVITY ROLLER CONVEYOR

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS

**STRAIGHT SECTION MODEL NUMBER**  
251S-51-3-H-8

251S-(between frames)-(roller centers)-  
(set high or low)-(length)

**CURVED SECTION MODEL NUMBER**  
251SC-33-L-90

251SC-(between frames)-(set high or low)-(degree)



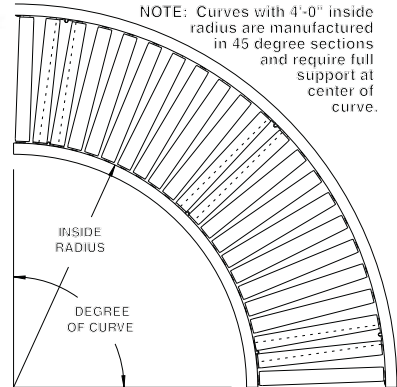
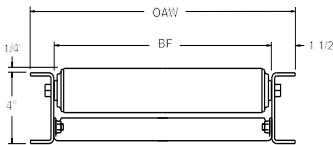
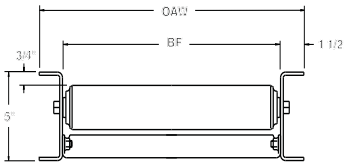
Optional: Use SH or SS supports on page 139



Double roller design



Single roller design



## SPECIFICATIONS

**ROLLERS:** 2-1/2" x 11 ga. steel tubing, model 251S, with flanged type bearings pressed into straight ends.

**ROLLER CAPACITY:** 540 lbs. per roller.

**BEARINGS:** Precision ABEC bearings.

**FRAMES:** Formed steel painted channel 4" x 1-1/2" x 7 ga. set high; 5" x 1-1/2" x 7 ga. set low.

**FRAME CAPACITY:** 3400 lbs. maximum distributed live load per 10' section with supports at 10' ctrs; 7500 lbs. at 5' ctrs.

**COUPLINGS:** Butt type.

**AXLES:** 11/16" hex shaft, spring loaded.

**OPTIONAL FRAME:** For structural steel channel frame, see next page.

STRAIGHT SECTION (WT lbs.)							CURVED SECTIONS					
Normal Roller Length	Between Frames	3" RC 10'	4.5" RC 10'	6" RC 10'	9" RC 10'	12" RC 10'	Curve Inside Radius	Curve Roller Design	90° Rollers Per Curve	90° WT. lbs.	45° Rollers Per Curve	45° WT. lbs.
*6"	*7"	234	186	161	137	125	-	-	-	-	-	-
12"	13"	327	249	210	171	152	2'-8-1/2"	Single	18	217	9	120
14"	15"	358	270	227	183	161	2'-8-1/2"	Single	18	246	9	134
16"	17"	389	292	243	194	170	2'-8-1/2"	Single	18	274	9	147
18"	19"	421	313	259	205	178	2'-8-1/2"	Single	18	303	9	161
20"	21"	452	334	275	217	187	2'-8-1/2"	Single	18	331	9	175
22"	23"	483	355	292	228	196	2'-8-1/2"	Single	18	360	9	188
24"	25"	514	377	308	239	205	2'-8-1/2"	Single	18	388	9	202
26"	27"	545	398	324	251	214	2'-8-1/2"	Single	18	417	9	216
30"	31"	607	440	357	274	232	4'	Double	40	474	20	243
32"	33"	638	462	373	285	241	4'	Double	40	503	20	257
36"	37"	700	504	406	308	259	4'	Double	40	560	20	284
38"	39"	731	525	422	319	268	4'	Double	40	589	20	298
42"	43"	794	568	455	342	285	4'	Double	40	646	20	325
46"	47"	856	610	487	365	303	4'	Double	40	703	20	353
50"	51"	918	653	520	387	321	4'	Double	40	760	20	380
Per Foot		16	11	8	6	4	Per Foot		-	14	-	7

\*7" BF and 9" BF straight sections furnished with spring loaded shafts in set high position ONLY.



## WARNING

To prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors, use connector brackets with safety pop-out rollers shown on pg. 100.

■ 24 hour shipment

# MODEL 251S STRUCTURAL 2-1/2" DIA. X 11 GA. STEEL GRAVITY ROLLER CONVEYOR

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS



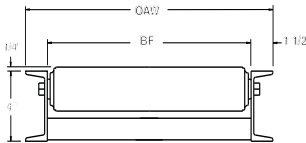
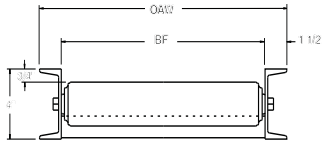
Optional: Use SH or SS supports on page 139



Double roller design



Single roller design

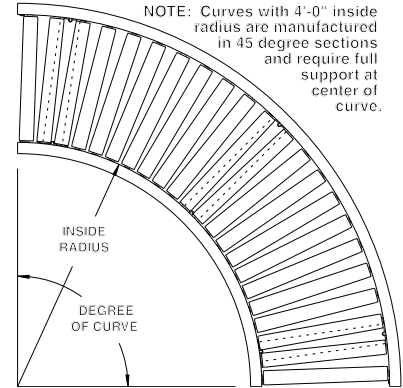


**STRAIGHT SECTION MODEL NUMBER**  
251S-45-6-L-9-S

251S-(between frames)-(roller centers)-(set high or low)-(length)-(structural frame)

**CURVED SECTION MODEL NUMBER**  
251SC-31-H-90-S

251SC-(between frames)-(set high or low)-(degree)-(structural frame)



## SPECIFICATIONS

**ROLLERS:** 2-1/2" x 11 ga. steel tubing, model 251S, with flanged type bearings pressed into straight ends.

**ROLLER CAPACITY:** 540 lbs. per roller.

**BEARINGS:** Precision ABEC bearings.

**FRAMES:** 4" at 5.4 lbs. structural steel painted channel.

**FRAME CAPACITY:** 3750 lbs. maximum distributed live load per 10' section with supports at 10' ctrs; 8000 lbs. at 5' ctrs.

**COUPLINGS:** Butt type.

**AXLES:** 11/16" hex shaft, spring loaded.

Normal Roller Length	Between Frames	STRAIGHT SECTION (WT lbs.)										CURVED SECTIONS					
		3" RC 10'	3" RC 5'	4.5" RC 10'	4.5" RC 5'	6" RC 10'	6" RC 5'	9" RC 10'	9" RC 5'	12" RC 10'	12" RC 5'	Curve Inside Radius	Curve Roller Design	90° Rollers Per Curve	90° WT. lbs.	45° Rollers Per Curve	45° WT. lbs.
*8"	*9"	303	153	257	131	234	108	186	96	167	84	-	-	-	-	-	-
12"	13"	365	185	304	155	263	125	209	108	184	95	2'-8-1/2"	Single	18	196	9	99
14"	15"	396	203	328	168	270	135	223	116	192	101	2'-8-1/2"	Single	18	212	9	107
16"	17"	429	219	353	181	278	143	234	121	202	105	2'-8-1/2"	Single	18	227	9	115
18"	19"	460	235	377	193	294	152	246	128	211	111	2'-8-1/2"	Single	18	243	9	122
20"	21"	491	251	400	206	311	161	258	135	220	116	2'-8-1/2"	Single	18	259	9	131
22"	23"	524	267	446	218	328	169	271	141	232	121	2'-8-1/2"	Single	18	275	9	138
24"	25"	555	284	450	232	345	179	282	148	239	126	2'-8-1/2"	Single	18	290	9	146
26"	27"	582	297	470	241	358	185	291	151	245	128	2'-8-1/2"	Single	18	306	9	154
30"	31"	646	330	518	266	390	202	317	166	263	138	4'	Double	40	441	20	237
32"	33"	678	346	543	279	408	212	338	172	272	144	4'	Double	40	460	20	257
36"	37"	739	378	589	303	440	228	351	184	290	153	4'	Double	40	495	20	265
38"	39"	770	394	613	315	456	247	363	190	299	168	4'	Double	40	513	20	276
42"	43"	833	426	661	340	486	254	387	203	317	179	4'	Double	40	550	20	297
44"	45"	864	443	685	353	501	263	399	209	326	185	4'	Double	40	568	20	306
46"	47"	895	459	709	365	516	272	411	216	335	191	4'	Double	40	586	20	316
50"	51"	958	491	757	389	546	289	435	228	353	202	4'	Double	40	622	20	336

\*9" BF straight sections furnished with spring loaded shafts in set high position ONLY.



### WARNING

Prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors and other equipment!

■ 24 hour shipment

# MODEL 297S 2-9/16" DIA. X 7 GA. STEEL GRAVITY ROLLER CONVEYOR

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS

### STRAIGHT SECTION MODEL NUMBER

**297S-45-6-L-6**  
297S-(between frames)-(roller centers)-  
(set high or low)-(length)

### CURVED SECTION MODEL NUMBER

**297SC-39-H-90**  
297SC-(between frames)-(set high or low)-(degree)



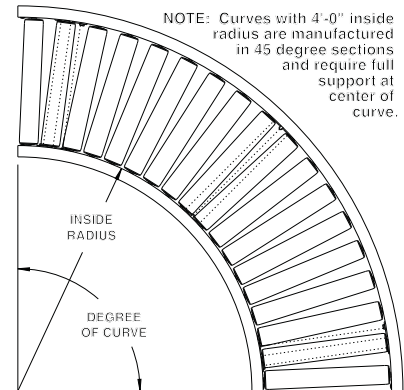
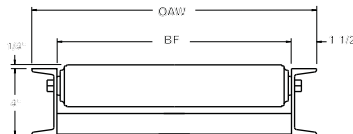
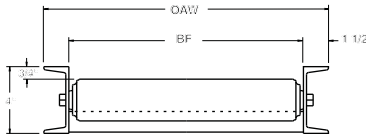
Optional: Use SH or SS supports on page 139



Double roller design



Single roller design



NOTE: Curves with 4'-0" inside radius are manufactured in 45 degree sections and require full support at center of curve.

## SPECIFICATIONS

**ROLLERS:** 2-9/16" x 7 ga. steel tubing, model 297S, with straight ends, reamed to provide smooth bearing seats.

**ROLLER CAPACITY:** 540 lbs. per roller.

**AXLES:** 11/16" hex shaft, spring loaded.

**BEARINGS:** Precision ABEC bearings.

**FRAMES:** 4" at 5.4 lbs. structural steel painted channel.

**COUPLINGS:** Butt type.

**FRAME CAPACITY:** 3750 lbs. maximum distributed live load per 10' section with supports at 10' centers; 8000 lbs. at 5' centers.

STRAIGHT SECTION (WT lbs.)							CURVED SECTIONS						
Normal Roller Length	Between Frames	3" RC 10'	4.5" RC 10'	6" RC 10'	9" RC 10'	12" RC 10'	Curve Inside Radius	Curve Roller Design	90° Rollers Per Curve	90° WT.	45° Rollers Per Curve	45° WT.	
12"	13"	416	317	267	218	193	2'-8-1/2"	Single	18	217	11	120	
14"	15"	457	345	289	232	204	2'-8-1/2"	Single	18	246	11	134	
16"	17"	498	373	310	247	216	2'-8-1/2"	Single	18	274	11	147	
18"	19"	539	401	331	261	227	2'-8-1/2"	Single	18	303	11	161	
20'	21"	581	428	352	276	238	2'-8-1/2'	Single	18	331	11	175	
22"	23"	622	456	373	291	249	2'-8-1/2"	Single	18	360	21	188	
24"	25"	663	484	395	305	261	2'-8-1/2"	Single	18	388	21	202	
26"	27"	704	512	416	320	272	2'-8-1/2"	Single	18	417	21	216	
30"	31"	786	568	458	349	294	4'	Double	40	474	20	243	
32"	33"	828	596	480	364	306	4'	Double	40	503	20	257	
36"	37"	910	651	522	393	328	4'	Double	40	560	20	284	
38"	39"	951	679	543	407	339	4'	Double	40	589	20	298	
42"	43"	1033	735	586	436	362	4'	Double	40	646	20	325	
46"	47"	1116	791	628	466	384	4'	Double	40	703	20	353	
50"	51"	1198	847	671	495	407	4'	Double	40	760	20	380	
Per Foot		21	14	11	7	6	Per Foot		-	14	-	7	



### WARNING

To prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors, use connector brackets with safety pop-out rollers shown on pg. 100.

■ 24 hour shipment

# MODEL 3509S 3-1/2" DIA. X 9 GA. STEEL GRAVITY ROLLER CONVEYOR

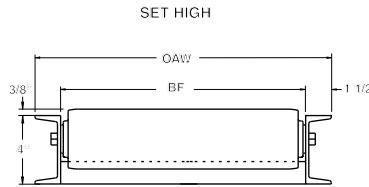
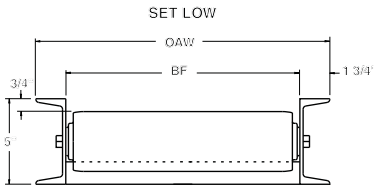
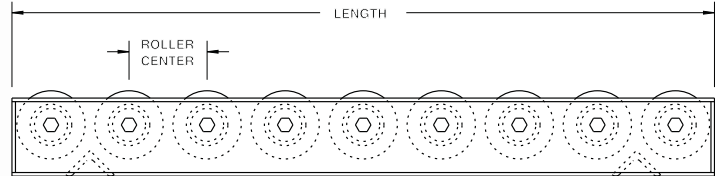
24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON STRAIGHT SECTIONS

**STRAIGHT SECTION MODEL NUMBER**  
3509S-47-4-H-3

3509S-(between frames)-(roller centers)-  
(set high or low)-(length)



Optional: Use SH or SS supports on page 139



## SPECIFICATIONS

**ROLLERS:** 3-1/2" x 9 ga. steel tubing, model 3509S, with straight ends, reamed to provide smooth bearing seats.

**ROLLER CAPACITY:** 700 lbs. per roller.

**AXLES:** 11/16" hex shaft, spring loaded.

**FRAMES:** 4" at 5.4 lbs. structural steel painted channel set high; 5" at 6.7 lbs. structural steel painted channel set low (extra charge for set low).

**COUPLINGS:** Butt type.

**BEARINGS:** Precision ABEC bearings.

**FRAME CAPACITY:** 3750 lbs. maximum distributed live load per 10' section with supports at 10' centers; 8000 lbs. at 5' centers.

STRAIGHT SECTIONS (WT lbs.)					
NOMINAL ROLLER LENGTH	BETWEEN FRAMES	4" RC 10'	6" RC 10'	8" RC 10'	12" RC 10'
10"	11"	296	234	203	172
14"	15"	366	280	238	195
18"	19"	435	327	273	218
22"	23"	505	373	307	242
26"	27"	575	420	342	265
30"	31"	645	466	377	288
34"	35"	714	513	412	311
38"	39"	784	559	447	334
42"	43"	854	606	482	358
44"	45"	888	629	499	369
46"	47"	923	652	516	381
50"	51"	993	699	551	404
Per Foot		17	12	9	6



### WARNING

Prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors and other equipment!

■ 24 hour shipment

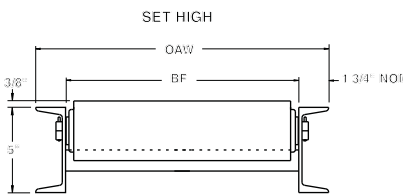
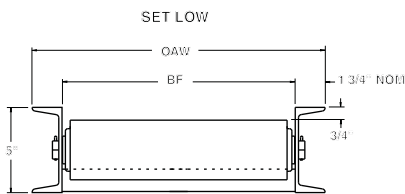
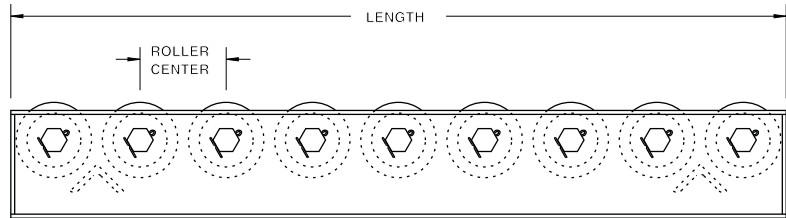
# MODEL 3530S

## 3-1/2" DIA. X .300 STEEL GRAVITY ROLLER CONVEYOR

**STRAIGHT SECTION MODEL NUMBER**  
**3530S-47-6-H-7**  
 3530S-(between frames)-(roller centers)-  
 (set high or low)-(length)



Optional: Use SH or SS3530 supports on page 139



### SPECIFICATIONS

**ROLLERS:** 3-1/2" x .300 steel tubing, model 3530S, with straight ends, reamed to provide smooth bearing seats.

**ROLLER CAPACITY:** 2500 lbs. per roller.

**AXLES:** 1-1/16" hex with pinned shafts.

**FRAMES:** 5" at 6.7 lbs. structural steel painted channel.

**BEARINGS:** Precision ABEC bearings..

**COUPLINGS:** Butt type.

**FRAME CAPACITY:** 6600 lbs. maximum distributed live load per 10' section with supports at 10' centers; 16,000 lbs. at 5' centers.

STRAIGHT SECTIONS (WT lbs.)					
NOMINAL ROLLER LENGTH	BETWEEN FRAMES	4" RC 10'	6" RC 10'	8" RC 10'	12" RC 10'
6"	7"	364	288	250	212
10"	11"	500	379	318	257
14"	15"	635	469	386	303
18"	19"	771	560	454	348
22"	23"	907	650	522	393
26"	27"	1043	741	589	438
30"	31"	1178	831	657	484
34"	35"	1314	1235	980	726
38"	39"	1450	1012	793	574
42"	43"	1586	1103	861	619
44"	45"	1653	1148	895	642
46"	47"	1721	1193	929	665
50"	51"	1857	1284	997	710
Per Foot		34	23	17	11

### WARNING

To prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors, use connector brackets with safety pop-out rollers shown on pg. 100.



■ 24 hour shipment



# MODEL B BALL TRANSFER UNITS

24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 1'-0" TO 10'-0" ON BALL TRANSFERS

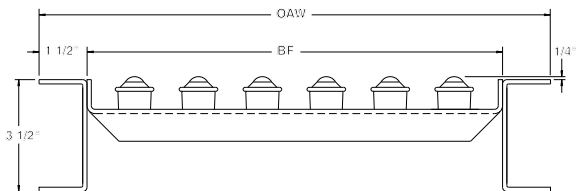
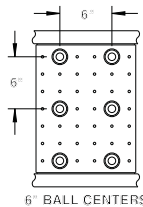
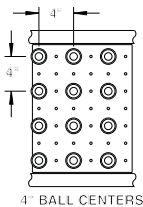
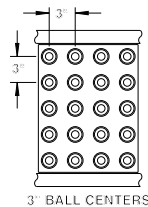
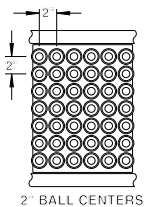
**BALL TRANSFER MODEL NUMBER**  
**B-27-3-5**  
 B-(between frames)-(ball centers)-(length)



For replacement ball assemblies, refer to part #BRW04650

Optional: Use SM supports on page 138

**DETERMINE BALL SPACING** by dividing minimum package dimension by 2.5. Center to center ball spacing results with minimum of 9 ball casters required to support each package.



## SPECIFICATIONS

**BALL ASSEMBLIES:** 1" dia. steel ball x 1-13/16" overall housing diameter. Mounting bolt is 1/4"-20.

**BALL CAPACITY:** 50 lbs. per ball with max. unit load not to exceed the capacity of 4 balls (200#).

**FRAMES:** 3-1/2" x 1-1/2" x 10 ga. steel with balls in set high position (1/4" above side frames) only.

**FRAME CAPACITY:** 1300 lbs. maximum distributed live load per 10' section with supports at 10' ctrs; 3200 lbs. at 5' ctrs.

**PLATES:** Balls are attached in square pattern to 10 ga. formed plates up to 39" BF. Above 39", plates are 7 ga.

**COUPLINGS:** Butt type.

BALL TRANSFERS								
BETWEEN FRAMES	2" CENTERS BALLS PER FT.	3" CENTERS BALLS PER FT.	4" CENTERS BALLS PER FT.	6" CENTERS BALLS PER FT.	2" CENTERS WT. PER FT. (lbs.)	3" CENTERS WT. PER FT. (lbs.)	4" CENTERS WT. PER FT. (lbs.)	6" CENTERS WT. PER FT. (lbs.)
13"	36	20	12	6	183	161	140	96
15"	42	20	12	6	203	178	152	102
17"	48	24	15	8	222	194	165	108
19"	54	28	15	8	242	210	178	114
21"	60	28	18	8	262	226	191	120
23"	66	32	18	10	281	243	204	127
25"	72	36	21	10	301	259	217	133
27"	78	36	21	10	321	275	230	139
31"	90	44	24	12	360	308	256	151
33"	96	44	27	12	380	324	268	157
37"	108	52	30	14	419	357	294	169
39"	114	52	30	14	439	373	307	175
43"	126	60	33	16	478	406	333	188
47"	138	64	36	18	518	438	359	200
51"	150	68	39	18	557	471	385	212



### WARNING

To prevent pinch points that exist when gravity conveyors are permanently attached to power conveyors, use connector brackets with safety pop-out rollers shown on pg. 100.

■ 24 hour shipment