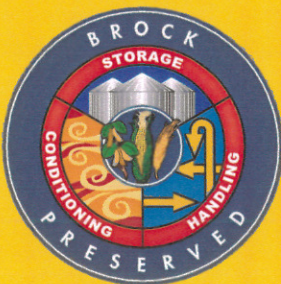
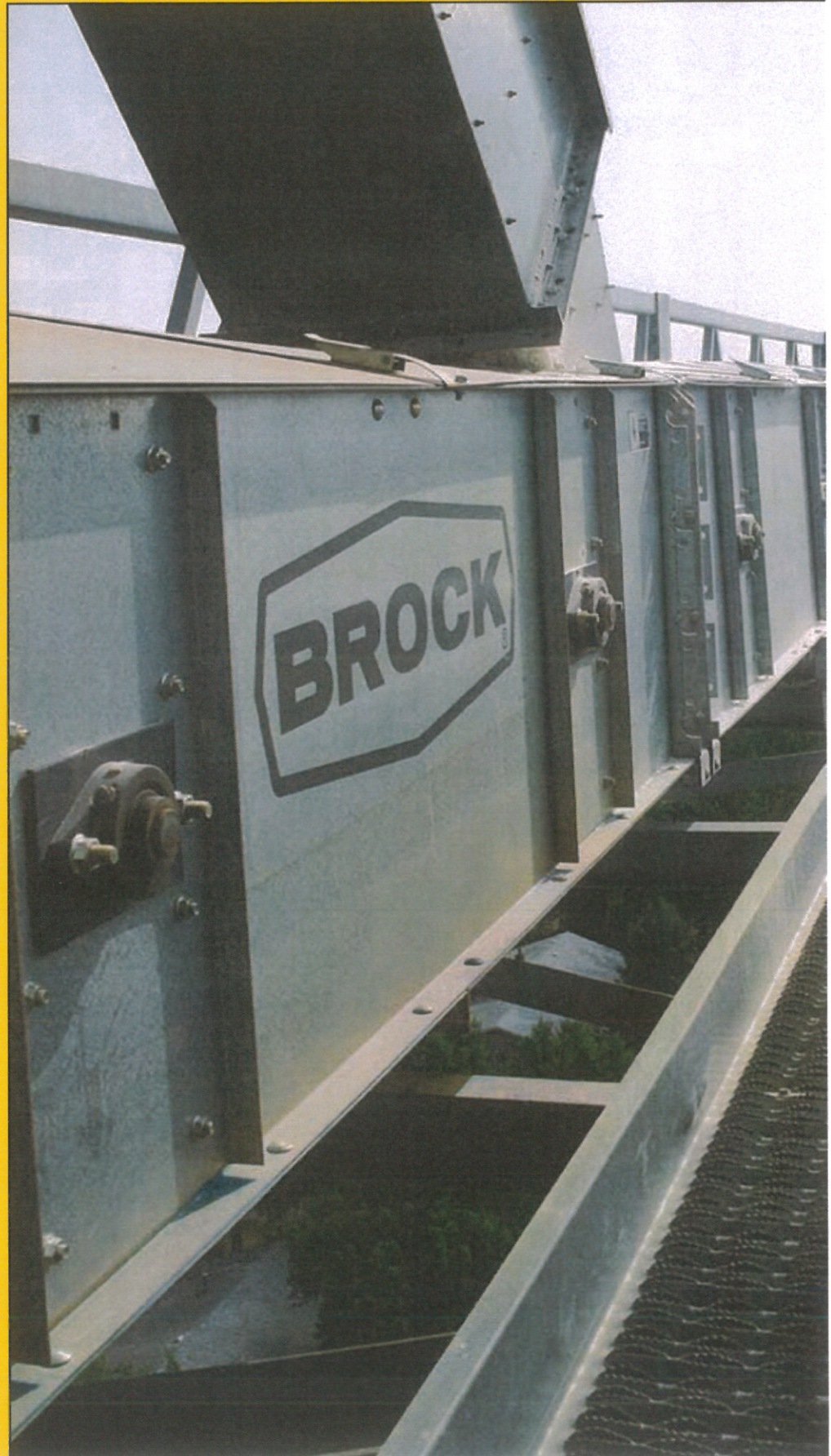




ENCLOSED ROLLER-BELT CONVEYORS



CONVEYING YOUR GRAIN EFFICIENTLY & RELIABLY

Engineered for durability and added value

BROCK® Enclosed Roller-Belt Conveyor Systems offer you the added-value quality features and the rugged design needed for dependable conveyor operation:

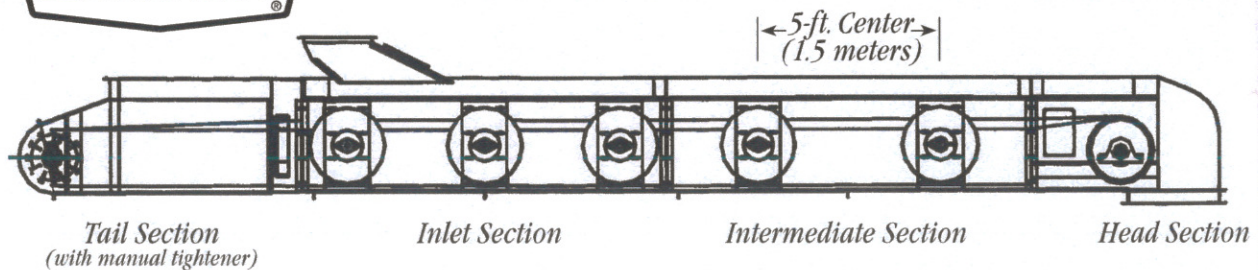
- Galvanized steel construction.
- Dust- and weather-tight design for dependable, long-lasting operation.
- Capable of full-load starts.
- Each conveyor system is computer-matched to the proper motor drive and gear reducers needed for efficient, energy-saving operation.
- Unique, heavy-duty idler pulley design minimizes vibrations to provide smoother belt operation (see back page).
- Efficient, self-cleaning tail section also helps recapture any spilled grain from the belt.
- Inlets and head discharges are fully-lined for long life.
- Self-aligning, heavy-duty bearings mount on outside of conveyor's housing for easy maintenance, longevity, and safety.
- Quick-release top panel allows easy conveyor maintenance access from one side. The panel's raised center rib adds strength and helps shed moisture.
- A variety of belt widths and conveyor speeds are available (see back page).
- Optional features include enclosed gravity belt take-up, intermediate discharge units and other special use accessories.



2-way inlet for Brock's reversing conveyor configuration



Pre-assembled and shipped in sections up to 40 feet (12 meters)

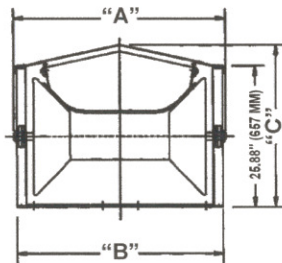


CONVEYOR SPECIFICATIONS

Brock takes a balanced approach to conveyors

A smooth-operating conveyor system happens only by design. To help you get an enclosed roller-belt conveyor that minimizes harmonic vibrations while also providing longer bearing life and smoother operation, Brock incorporated the following design features:

- All idler pulleys are dynamically-balanced at 400 and 800 revolutions per minute.
- All pulleys feature a full-length shaft with positive locking tapered bushing and keyed connection.
- Pulley and bearing shaft is 1-1/4-inch (32 mm) diameter for less deflection and longer conveyor life.
- Idler pulleys in the conveyor's intermediate sections are mounted on 5-foot (1.5-meter) centers for efficient belt operation and less spillage between carrying and return belts.
- Conveyor loading section features pulleys mounted on 3-foot (914-mm) centers for more uniform belt loading.
- All idler pulleys are adjustable for belt training.
- A solid disk on the conical end of the pulley provides better support and prevents energy-robbing dust pockets.
- Head pulleys have replaceable slide lagging.
- Head and tail bearings are standard spherical roller bearings for easy maintenance and increased loads.



Patented Brock pulley design



Able to convey most grains at angles of up to 25 degrees (18-degree incline shown). For steeper angles, contact Brock for recommendations.

CONVEYOR CAPACITIES Belt speed (Feet Per Minute/Meters Per Second)								
Model	Units	100 / .5	200 / 1.0	300 / 1.5	400 / 2.0	500 / 2.5	600 / 3.0	700 / 3.6
18	Bu/Hr	1100	2300	3500	4600	5800	7000	8100
	MT/Hr	28	58	89	117	147	178	206
22	Bu/Hr	1700	3500	5300	7100	8900	10700	12500
	MT/Hr	43	89	135	180	226	272	318
26	Bu/Hr	2500	5100	7700	10200	12800	15400	18000
	MT/Hr	64	130	196	259	325	391	457
30	Bu/Hr	3200	6500	9800	13100	16400	19700	23000
	MT/Hr	81	165	249	333	417	500	584
36	Bu/Hr	4200	8500	12800	17100	21400	25700	30000
	MT/Hr	107	216	325	434	544	653	762
42	Bu/Hr	5700	11400	17100	22800	28500	34200	40000
	MT/Hr	145	290	434	579	724	869	1016
48	Bu/Hr	6900	13800	20700	27600	34500	41400	48300
	MT/Hr	175	351	526	701	876	1052	1227
54	Bu/Hr	8200	16500	24700	33000	41200	49500	57800
	MT/Hr	208	419	627	838	1047	1257	1468

CONVEYOR DIMENSIONS							
Belt Width		"A"		"B"		"C"	
INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
18	450	25	635	24	610	28.5	724
22	550	29	737	28	711	28.9	734
26	650	33	838	32	813	29.3	744
30	750	37	940	36	914	29.6	752
36	900	43	1092	42	1067	30.2	767
42	1050	49	1245	48	1220	30.8	782
48	1200	55	1397	54	1372	31.1	790
54	1350	61	1549	60	1524	32.0	813



Brock Grain Systems
Chore-Time Brock International
 Divisions of CTB, Inc.
 Milford, IN • Kansas City, MO • Frankfort, IN
 Phone: 574.658.4191 or +1.574.658.9323 (International)
 Internet: www.brockgrain.com or www.ctbworld.com
 E-Mail: brock@brockgrain.com BR-2076/0108

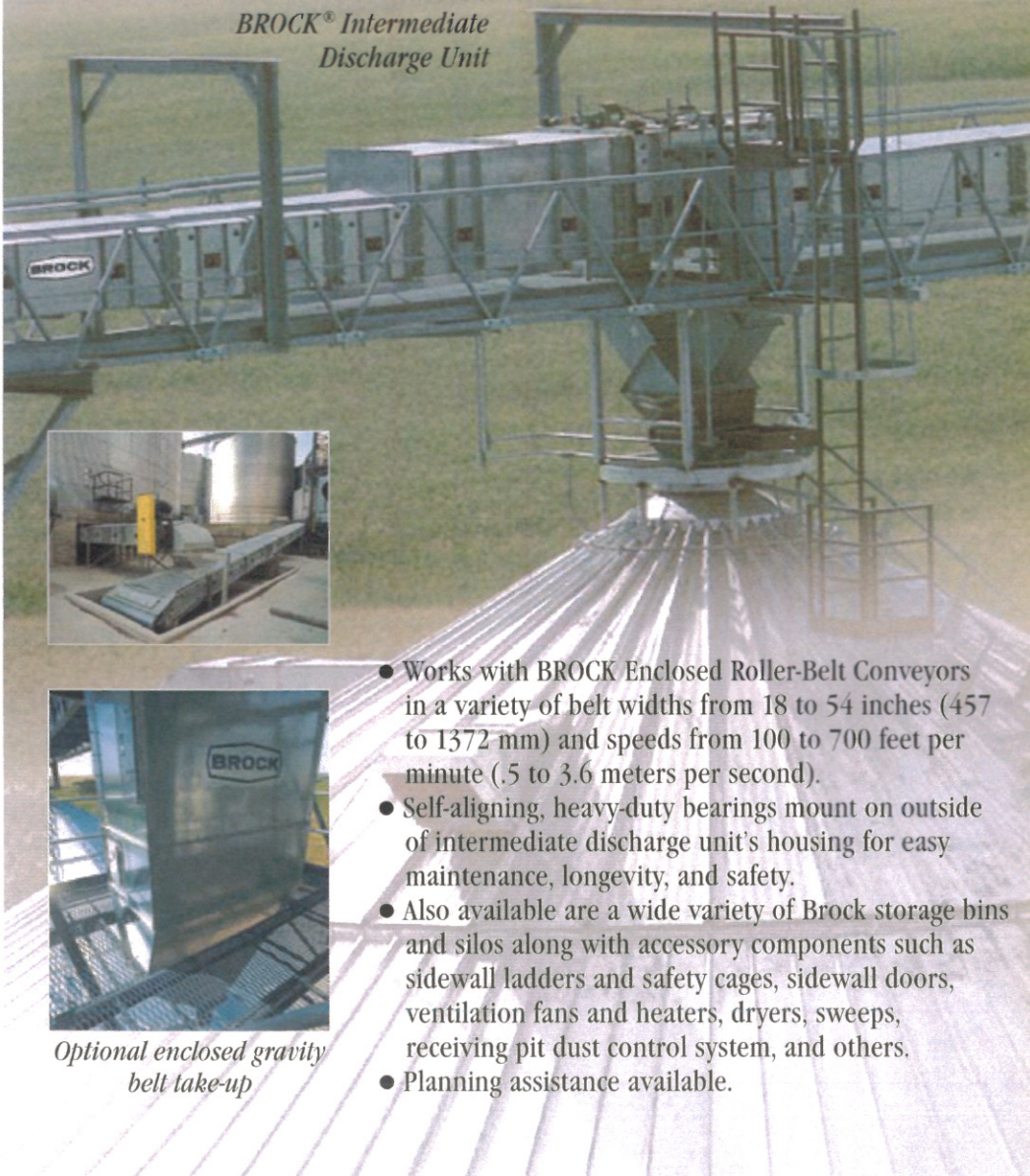
BELT CONVEYOR INTERMEDIATE DISCHARGE UNIT

Allows one conveyor to service many bins/silos

With the BROCK® Intermediate Discharge Unit, one enclosed roller-belt conveyor system can easily service many bins or silos! It is grain conveying at its best. Here is why:

- Innovative, compact Brock design is just 16 feet (4.9 m) long and adds only 14 inches (356 mm) to the conveyor's overall height. This efficient shape allows several intermediate discharge units to be positioned closely together.
- Actuator-controlled plow is remotely activated using electric controls to smoothly divert grain without interrupting material flow.
- Simple, economical design requires low horsepower to operate.
- BROCK Intermediate Discharge Unit can be retrofitted to existing BROCK Conveyor Systems – including reversing conveyors.
- Made of galvanized steel, these intermediate discharge units have a dust- and weather-tight design for dependable, long-lasting operation.

BROCK® Intermediate Discharge Unit



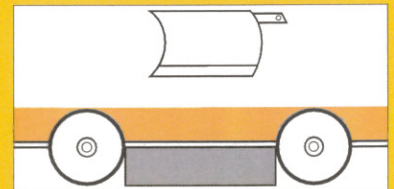
- Works with BROCK Enclosed Roller-Belt Conveyors in a variety of belt widths from 18 to 54 inches (457 to 1372 mm) and speeds from 100 to 700 feet per minute (.5 to 3.6 meters per second).
- Self-aligning, heavy-duty bearings mount on outside of intermediate discharge unit's housing for easy maintenance, longevity, and safety.
- Also available are a wide variety of Brock storage bins and silos along with accessory components such as sidewall ladders and safety cages, sidewall doors, ventilation fans and heaters, dryers, sweeps, receiving pit dust control system, and others.
- Planning assistance available.

Optional enclosed gravity belt take-up

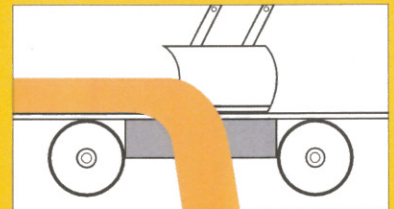


Lined Discharge Moldboard Plow in Action

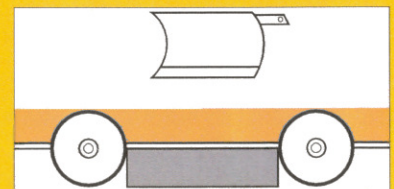
How it works



STEP 1: In by-pass operation, material flows through to the end of the conveyor.



STEP 2: In discharge operation, synchronized actuators raise belt support frame to flatten belt profile, and the curved discharge moldboard plow lowers into contact with conveyor belt to divert material and fines.

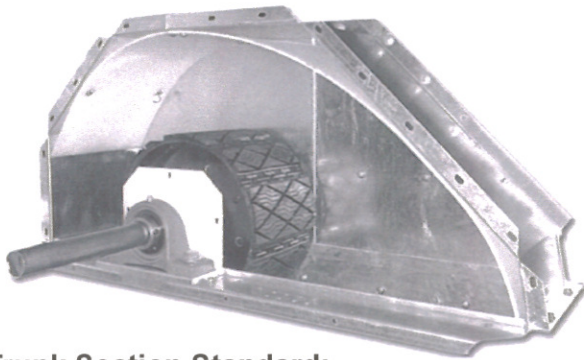


STEP 3: To return to by-pass operation, the discharge moldboard raises while the belt support frame lowers allowing the belt to return to its normal conveying profile.



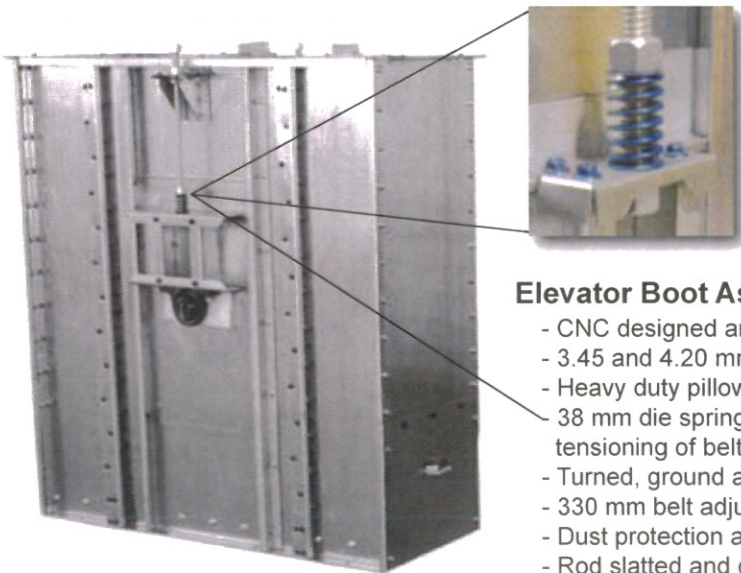
Elevator Head Assembly Standard Features:

- CNC designed and manufactured
- 3.45 mm thickness galvanized construction
- 6.35 mm thick UHMW CAD designed curved head line with easy replacement
- Heavy duty pillow block ball bearings with vertical and horizontal adjustments
- Turned, ground and polished shaft
- 1.82 mm thickness head cover splits for easy removal and inspection
- Inspection door on both sides of head
- Dust protection at shaft opening
- Ladder section on head unit
- No welding or torch cutting on head assembly
- Replaceable head pulley lagging



Trunk Section Standard:

- CNC designed and manufactured
- 3.45 - 1.82 mm thickness bolted construction
- Removable side panel for inspection
- Flanges weld to trunking using only silicon-bronze MIG wire to prevent corrosion and extend the useful life of the bucket elevator
- Double legged trunking assemblies are used for quicker assembly of the bucket elevator
- Standard PVC belting with rubber belting as an option
- Poly buckets are also standard, other options available upon request

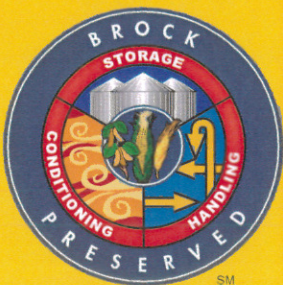
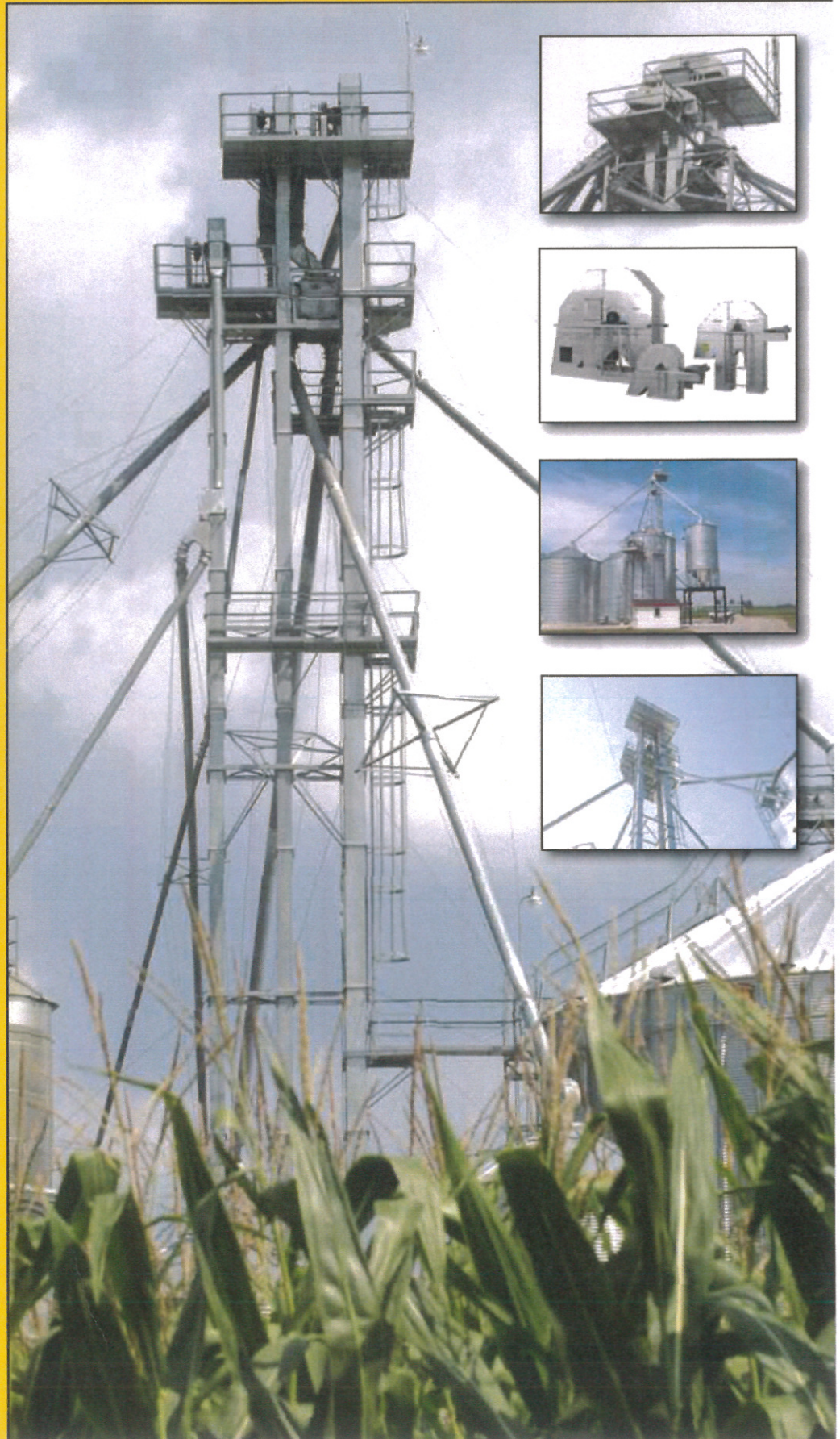


Elevator Boot Assembly Standard Features:

- CNC designed and manufactured
- 3.45 and 4.20 mm thickness galvanized construction
- Heavy duty pillow block ball bearings
- 38 mm die springs on each belt take-up assembly, insure proper tensioning of belt for better traction and longer life.
- Turned, ground and polished shaft
- 330 mm belt adjustment for easy installation
- Dust protection at shaft opening
- Rod slatted and crowned pulley
- No welding or torch cutting on assembly



BUCKET ELEVATORS



Bucket Elevator Dimensions (shown in millimeters)

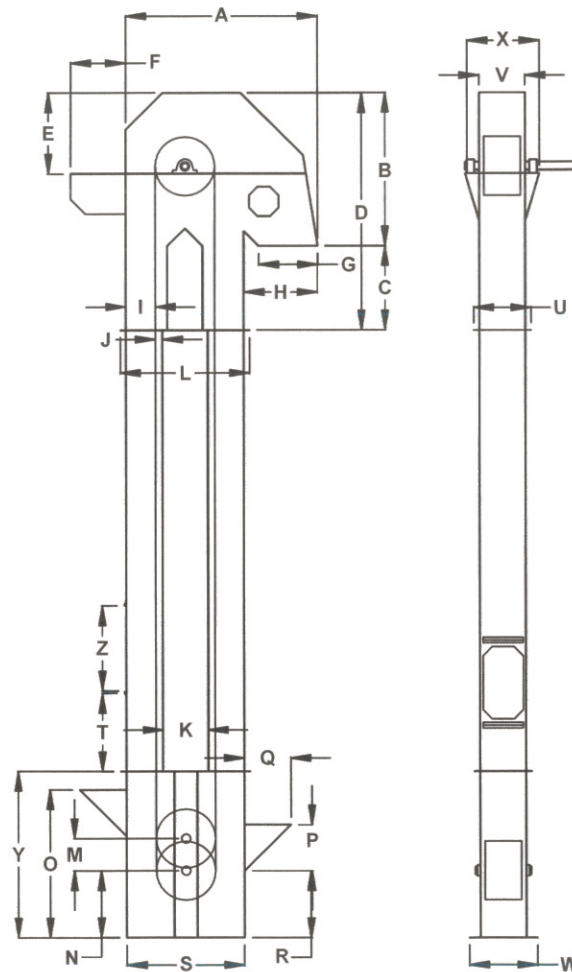
DIMENSION									Two Rows of Buckets		
	16-9x5	24-9x6	24-11x7	30-9x6/11x7	36-12x7/12x8	42-16x8	42-18x8/20x8	42D-16x8	42D-18x8	42D-20x8	
A	1321	1524	1765	2242	2432	2775	2775	2775	2775	2775	
B	1067	1314	1600	1962	1975	2394	2394	2394	2394	2394	
C	584	483	375	97	165	0	0	0	0	0	
D	1651	1797	1975	2056	2254	2394	2394	2394	2394	2394	
E	502	N/A	N/A	N/A	N/A	2108	2108	2108	2108	2108	
F	362	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
G	330	343	343	483	483	473	473	473	473	473	
H	432	425	584	868	868	1002	1002	1002	1002	1002	
I	229	229	286	286	305	356	356	356	356	356	
J	22	22	22	22	22	44	44	44	44	44	
K	311	514	464	667	819	972	972	972	972	972	
L	914	1118	1375	1375	1575	1778	1778	1778	1778	1778	
M	222	222	222	305	305	305	305	305	305	305	
N	464	464	546	629	686	584	584	584	584	584	
O	991	991	1054	1340	1397	1321	1321	1321	1321	1321	
P	305	305	305	406	432	432	432	432	432	432	
Q	305	305	305	406	432	432	432	432	432	432	
R	464	464	527	629	686	584	584	584	584	584	
S	813	1016	1111	1291	1473	1778	1778	1778	1778	1778	
T	305	305	305	305	305	305	305	305	305	305	
U	394	394	457	457	533	584	756	1118	1219	1321	
V	318	318	381	381	432	508	660	1006	1108	1210	
W	419	470	508	508	603	699	902	1199	1300	1402	
X	508	508	616	616	768	845	1048	1389	1491	1592	
Y	1149	1149	1149	1438	1438	1664	1664	1664	1664	1664	
Z	914	914	914	914	914	914	914	914	914	914	

For other options, contact Chore-Time Brock International. Dimensions (shown in millimeters) are nominal and subject to change.

Bucket Elevator Capacities

MODEL	METRIC TONS / HOUR
GLC-16-9X5-12	39
GLC-16-9X5-09	53
GLC-16-9X5-06	79
GLC-24-9X6-08	86
GLC-24-9X6-07	100
GLC-24-11X7-09	127
GLC-24-11X7-08	145
GLC-30-9X6-10	76
GLC-30-9X6-09	86
GLC-30-9X6-08	97
GLC-30-9X6-07	112
GLC-30-11X7-10	132
GLC-30-11X7-09	145
GLC-30-11X7-08	165
GLC-36-12X7-11	150
GLC-36-12X7-10	163
GLC-36-12X7-09	178
GLC-36-12X7-08	203
GLC-36-12X8-9.5	229
GLC-36-12X8-8.5	254
GLC-42-16X8-12	254
GLC-42-16X8-10	305
GLC-42-16X8-09	343
GLC-42-18X8-10	353
GLC-42-18X8-8.5	414
GLC-42-20X8-8.5	467
GLC-42-20X8-07	508
GLC-42D-16X8-10	610
GLC-42D-16X8-09	686
GLC-42D-18X8-8.5	812
GLC-42D-20X8-8.5	914
GLC-42D-20X8-07	1015

Capacities are examples based on centrifugal discharge speeds for whole grains. Capacities are based on 56 pounds shelled corn or grain sorghum at 15.5% moisture. Slow centrifugal and gravity discharge speed capacities are available upon request, contact Chore-Time Brock International.



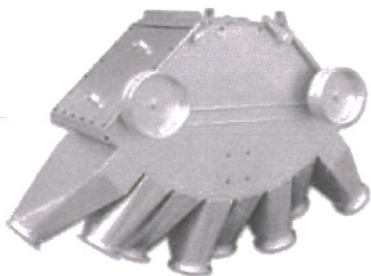
Chore-Time Brock International
 A Division of CTB, Inc. • Milford, Indiana U.S.A.
 Phone: +1.574.658.9323 • Internet: www.ctbworld.com
 E-mail: world@ctbworld.com



BROCK® Ladders and Platforms facilitate access to your equipment with optional safety cage, rest platforms, work platforms and head platforms. Each platform includes a full hand rail set as well as a large swing door in the floor for fall prevention.

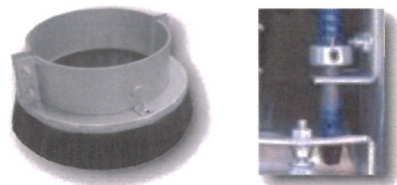


BROCK® Flow Accessories range from a variety of valves to flow reducers and custom transitions. Brock accessories are in stock and ready to ship.



Pendulum - Flat Back - Full Round Distributors:

- Galvanized weather-tight enclosure
- Large inspection door
- Heavy duty, long-lasting construction
- Positive position locking
- Sure flow with 50-degree angle
- Round flange inlet & outlets



Electric Distributor:

The SG-383 combines state of the art touch screen technology and a durable DC drive control to offer outstanding performance. The entire process is being continuously monitored by the onboard computer to ensure accurate positioning at all times.



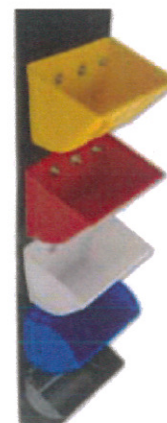
BUCKET ELEVATOR



Option: Auto grease bearings ensure your bearings always have the proper amount of lubricant while you remain safely on the ground.



Option: Motion sensor monitors the boot shaft rpm to ensure that the bucket elevator is running at its full capacity. It may be programmed to shut down equipment if it senses a reduction in the boot shaft speed.



Standard buckets are constructed of a durable non-sparking polyethylene. Optional steel, nylon or urethane buckets are also available.

BROCK SWEEP-TRACKER® SYSTEM OFFERS ZERO-BIN-ENTRY OPTIONS

BROCK'S SWEEP-TRACKER® CONTROLLER COULD REVOLUTIONIZE YOUR BIN UNLOADING

Brock's SWEEP-TRACKER® Control System can be used to provide true zero-bin-entry sweep operation with a new or existing Brock MODEL ABC™ Sweep System.

The SWEEP-TRACKER System can help to revolutionize your approach to the bin unloading process by freeing your employees from the need to stay with the sweep or the bin during operation.



The Brock SWEEP-TRACKER System:

- Monitors motor amperage.
- Automatically controls the sweep drive to stop the sweep when it is flooded. This saves energy, reduces equipment wear and helps to extend the service life of the sweep.
- Shows the sweep location within the bin, the percentage of grain remaining, and more.
- Can be operated remotely through the use of PLC (programmable logic controller) automation.
- Can be operated through an externally-mounted start/stop button.

INNOVATIVE SOLUTIONS FOR COMMERCIAL GRAIN STORAGE, HANDLING, CONDITIONING & DRYING



For commercial grain storage, handling, conditioning and drying, Brock's expanding line of products offers innovative solutions, top quality performance and the classic product durability closely associated with the BROCK® name. To learn more about Brock's products and how they are *Different by Design™*, contact us today.



BROCK GRAIN SYSTEMS

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E-mail: Brock@BrockGrain.com



TWO OUTSTANDING CHOICES

(16-inch/406-mm diameter
auger model shown)



BROCK'S SWEEP-MASTER® BIN SWEEP

ECONOMICAL BIN SWEEP SYSTEM

Brock's SWEEP-MASTER® Bin Unloading System offers:

- A rugged, commercial-quality bin sweep system capable of single-pass or double-pass operation.
- Simple design and an economical price.
- Many "must have" features included on larger sweeps.
- Options for zero-bin-entry during sweep use.

PRODUCT FEATURES

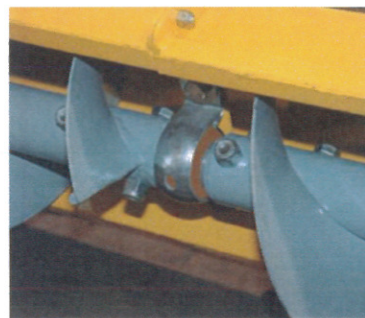
- Industry standard 1/4-inch (6-mm) auger flighting on all models.
- Commercial grade carrier bearings for reliability and long life.
- Foam-filled dual tires for drive wheels.
- 60:1 speed reduction provides better drive wheel traction.
- Commercial power head assembly.
- Explosion-proof motors for the drive wheels and the auger are standard for additional bin safety.
- Motor shrouds for all motors eliminate need for tarps or bags.
- Adjustable motor mounts.
- Heavy-duty truss design on the sweep uses 2-inch (51-mm) square tubing.
- Adjustable guide wheels.
- Adapts to nearly all sumps.

SWEEP-MASTER® SYSTEM SPECIFICATIONS				
MODEL (AUGER DIAMETER)		CAPACITY RANGE*		
INCHES	MM	BUSHEL PER HOUR	M ³ PER HOUR	METRIC TONS PER HOUR
10	254	2000 or 3000	70 or 100	50 or 75
12	305	4000, 5000 or 6500	140, 175 or 230	100, 125 or 165
16	406	8000, 9000 or 10,000	280, 315 or 350	200, 225 or 250

*Capacities based on free-flowing grain in good condition and 56 lbs. (25 kg) of corn per bushel.



Sturdy-Built Sweep Structure includes front and rear jacks to help the sweep withstand the stored grain pressures generated inside large diameter and/or taller grain bins



Durable Carrier Bearings



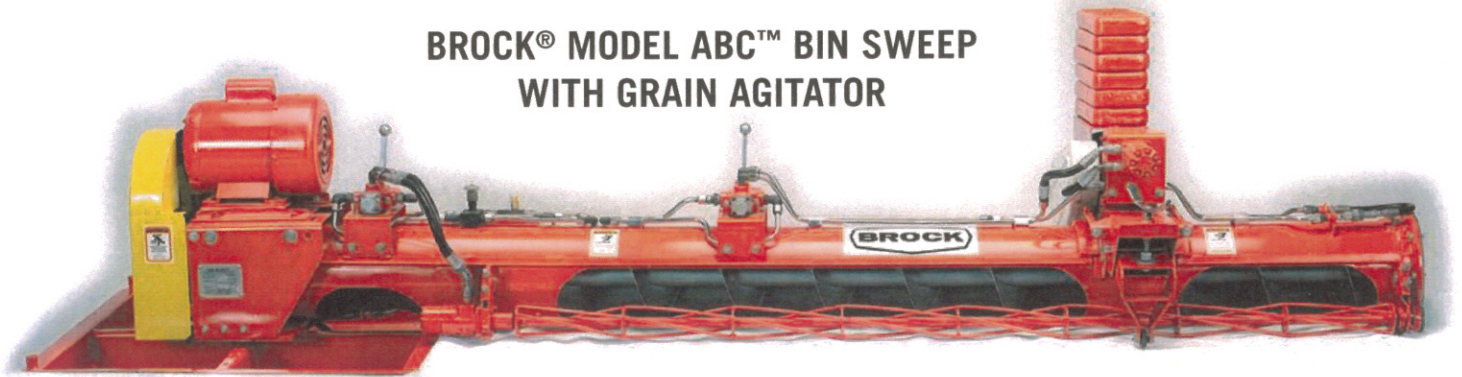
Optional Sweep Controller



Sweep Drive with Foam-Filled Dual Wheels

FOR GRAIN UNLOADING

BROCK® MODEL ABC™ BIN SWEEP WITH GRAIN AGITATOR



SOLID CONSTRUCTION FOR GENTLE UNLOADING

Brock's MODEL ABC™ Bin Sweep System:

- Provides efficient unloading of flat-bottom bins 30 to 200 feet (9 to 60 meters) in diameter.
- Is designed to be fully submerged in grain and to operate after gravity no longer unloads a flat-bottom storage bin.
- Offers options for zero-bin-entry use.

PRODUCT FEATURES

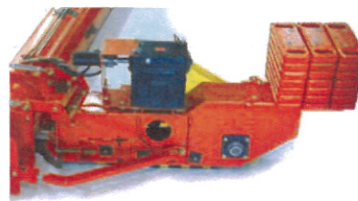
- Gently and evenly moves grain to discharge sump in single-pass or double-pass operation.
- Is the only sweep with a hydraulically-powered drive and agitator system for handling heavy unloading conditions and helping to prevent motor burnout.
- Standard foam-filled wheel drive system.
- Optional patented crawler track drive system:
 - Features hydraulically-driven tank-style endless chain track with replaceable urethane cleats.
 - Designed for use with harder-to-flow materials such as soybeans and rice.
 - Keeps sweep close to the bin floor to reduce grain damage.

MODEL ABC™ SYSTEM SPECIFICATIONS				
MODEL (AUGER DIAMETER)		CAPACITY RANGE*		
INCHES	MM	BUSHELS PER HOUR	M ³ PER HOUR	METRIC TONS PER HOUR
10	254	2300	80	58
16	406	5300, 8000 or 10,000	185, 280 or 350	130, 200 or 250
24	610	14,000 or 18,000	490 or 630	355 or 460

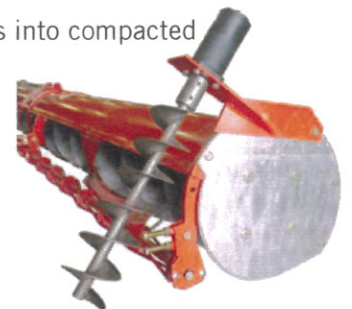
*Capacities based on free-flowing grain in good condition and 56 lbs. (25 kg) of corn per bushel.

WHY USE AN AGITATOR?

- Patented agitator adjusts to assist with irregular flow materials and to provide even clean-out.
- Efficiently break up material clusters and help clean out bridged material.
- Optional Sidewall Agitator digs into compacted material along sidewall of bin.



Optional Track Drive

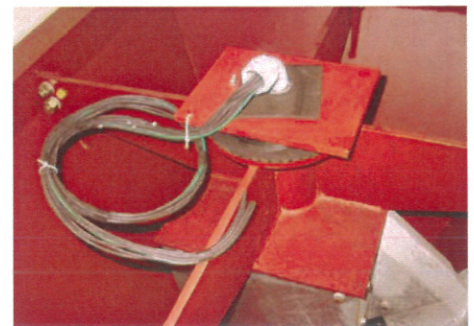


Optional Sidewall Material Agitator

NEED ZERO BIN ENTRY?

Only Brock's bin sweeps offer you industry-leading options for zero-bin-entry during sweep operation, including:

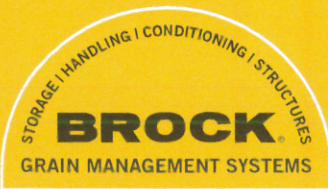
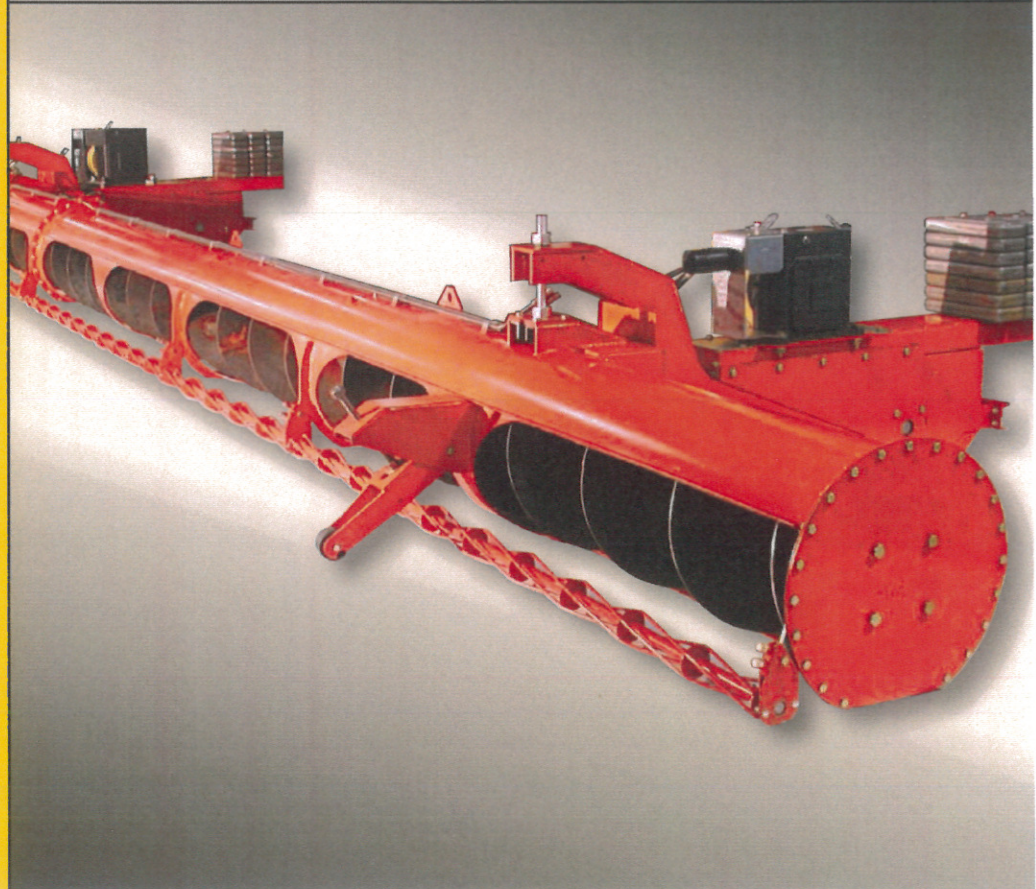
- Start/stop controls can be located outside of bin.
- Remote operation of Brock SWEEP-TRACKER® Controller with PLC (programmable logic controller) automation.
- Collector ring runs electricity through the sump hopper and eliminates twisting electrical cords.



Optional BROCK® Collector Ring Assembly



COMMERCIAL BIN SWEEPS & CONTROLLERS



X-SERIES SWEEP



TOTAL VALUE. TOTAL SYSTEMS.™



X
GSI
SERIES SWEEP™
PATENT PENDING



A TRUE ZERO-ENTRY COMMERCIAL

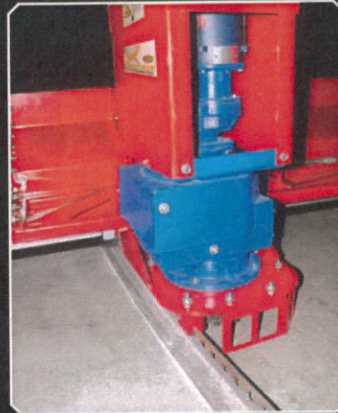


SERIES SWEEP™

PATENT PENDING

X-SERIES SWEEP FEATURES

- True Zero-Entry Sweep.
- 2 Auger Sizes Available
 - 12" Model - nominal capacity ranges from 5,000-7,000 BPH
 - 16" Model - nominal capacity ranges from 8,000-10,000 BPH
- Control program and track drive provides a positive drive, maximizing sweep capacities.
- Sweep will automatically back up in an over amperage (avalanche) situation while keeping the flight engaged.



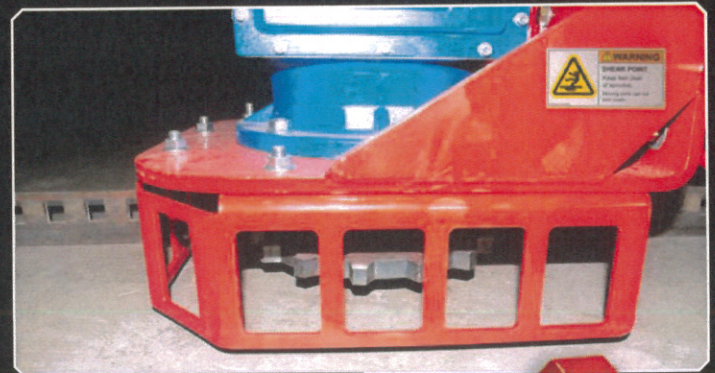
Track anchors to concrete floor.



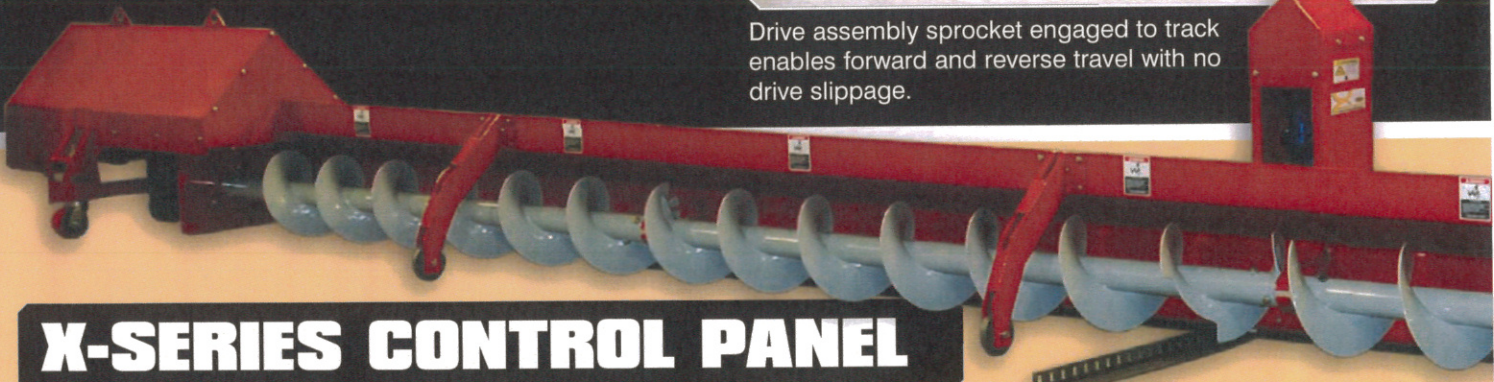
Pivot pin design attaches drive assembly to sweep.

POSITIVE DRIVE SWEEP

- Drive assembly attached directly to the back shield through a pivot pin design.
- Motor/Gearbox combination drives a sprocket which engages a track anchored to the concrete floor, eliminating slippage of the drive tractor.
- Positive drive gearbox is factory filled with food grade lubricant.



Drive assembly sprocket engaged to track enables forward and reverse travel with no drive slippage.



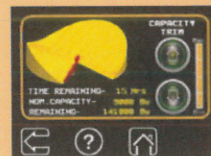
X-SERIES CONTROL PANEL



◀ Home Screen



Set-up Screen ▶



◀ Bushels Remaining Screen

PANEL CAPABILITIES AND DISPLAYS

- Sweep Position
- Drive and Flight Motor Amperage
- Estimated Bushel Capacity (unload rate)
- Calculates estimated time remaining
- Tractor in motion (forward-stop-reverse)
- Error Annunciation
- Automatic/Manual Operation
- Enable/Disable

SPECIFICATIONS HI-FLIGHT CONVEYORS

Hi-Flight Conveyors with a Standard Inlet - BPH

Size (W x H)	1*	100*	110*	120*	130*	140*	150*	160*	170*
12" x 12"	20	2000	2200	2400	2600	2800	3000	3200	3400
16" x 12"	27	2700	2970	3240	3510	3780	4050	4320	4590
16" x 14"	32	3200	3520	3840	4160	4480	4800	5120	5440
21" x 14"	42	4200	4620	5040	5460	5880	6300	6720	7140
16" x 20"	48	4800	5280	5760	6240	6720	7200	7680	8160
20" x 20"	60	6000	6600	7200	7800	8400	9000	9600	10200
26" x 20"	78	7800	8580	9360	10140	10920	11700	12480	13260
32" x 20"	96	9600	10560	11520	12480	13440	14400	15360	16320
26" x 27"	104	10400	11440	12480	13520	14560	15600	16640	17680
36" x 27"	144	14400	15840	17280	18720	20160	21600	23040	24480
36" x 39"	216	21600	23760	25930	28080	30240	32400	34560	36720

* Feet Per Minute

Hi-Flight Conveyors with a Horizontal Bypass Inlet - BPH

Size (W x H)	1*	100*	110*	120*	130*	140*	150*	160*	170*
12" x 12"	20	2000	2200	2400	2600	2800	3000	3200	3400
16" x 12"	25	2500	2750	3000	3250	3500	3750	4000	4250
16" x 14"	30	3000	3300	3600	3900	4200	4500	4800	5100
21" x 14"	36	3600	3960	4320	4680	5040	5400	5760	6120
16" x 20"	46	4600	5060	5520	5980	6440	6900	7360	7820
20" x 20"	55	5500	6050	6600	7150	7700	8250	8800	9350
26" x 20"	66	6600	7260	7920	8580	9240	9900	10560	11220
32" x 20"	75	7500	8250	9000	9750	10500	11250	12000	12750
26" x 27"	98	9800	10780	11760	12740	13720	14700	15680	16660
36" x 27"	120	12000	13200	14400	15600	16800	18000	19200	20400
36" x 39"	196	19600	21560	23520	25480	27440	29400	31360	33320

* Feet Per Minute

Hi-Flight Conveyors with a Standard Inlet - MTH

Size (W x H)	1	100	110	120	130	140	150*	160	170
304.8 x 304.8	0.5	51.0	56.1	61.2	66.3	71.4	76.5	81.6	86.7
406.4 x 304.8	0.7	68.9	75.7	82.6	89.5	96.4	103.3	110.2	117.0
406.4 x 355.6	0.8	81.6	89.8	97.9	106.1	114.2	122.4	130.6	138.7
533.4 x 355.6	1.1	107.1	117.8	128.5	139.2	149.9	160.7	171.4	182.1
406.4 x 508.0	1.2	122.4	134.6	146.9	159.1	171.4	183.6	195.8	208.1
508.0 x 508.0	1.5	153.0	168.3	183.6	198.9	214.2	229.5	244.8	260.1
660.4 x 508.0	2.0	198.9	218.8	238.7	258.6	278.5	298.4	318.2	338.1
812.8 x 508.0	2.4	244.8	269.3	293.8	318.2	342.7	367.2	391.7	416.2
660.4 x 685.8	2.7	265.2	291.7	318.2	344.7	371.3	397.8	424.3	450.8
914.4 x 685.8	3.7	367.2	403.9	440.6	477.4	514.1	550.8	587.5	624.2
914.4 x 990.6	5.5	550.8	605.8	661.2	716.0	771.1	826.1	881.2	936.3

Hi-Flight Conveyors with a Horizontal Bypass Inlet - MTH

Size (W x H)	1	100	110	120	130	140	150	160	170
304.8 x 304.8	0.5	51.0	56.1	61.2	66.3	71.4	76.5	81.6	86.7
406.4 x 304.8	0.6	63.8	70.1	76.5	82.9	89.3	95.6	102.0	108.4
406.4 x 355.6	0.8	76.5	84.2	91.8	99.5	107.1	114.8	122.4	130.1
533.4 x 355.6	0.9	91.8	101.0	110.2	119.3	128.5	137.7	146.9	156.1
406.4 x 508.0	1.2	117.3	129.0	140.8	152.5	164.2	176.0	187.7	199.4
508.0 x 508.0	1.4	140.3	154.3	168.3	182.3	196.4	210.4	224.4	238.4
660.4 x 508.0	1.7	168.3	185.1	202.0	218.8	235.6	252.5	269.3	286.1
812.8 x 508.0	1.9	191.3	210.4	229.5	248.6	267.8	286.9	306.0	325.1
660.4 x 685.8	2.5	249.9	274.9	299.9	324.8	349.8	374.8	399.8	424.8
914.4 x 685.8	3.1	306.0	336.6	367.2	397.8	428.4	458.9	489.6	520.2
914.4 x 990.6	5.0	499.8	549.7	599.7	649.7	699.7	749.7	799.6	849.6

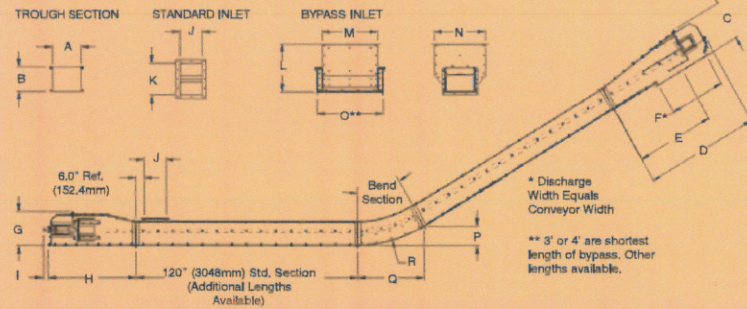
Hi-Flight Conveyor Dimensional Chart - inches

Size (W x H)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
12" x 12"	12	12	20.25	60	42	30	17.25	48	2.25	24	12	22.25	30	24	36
16" x 12"	16	12	20.25	60	42	30	17.25	48	2.25	24	16	24.25	30	28	36
16" x 14"	16	14	23	60	42	30	19	48	2	24	16	26.25	30	28	36
21" x 14"	21	14	23	60	42	30	19	48	2	24	21	28.75	30	33	36
16" x 20"	16	20	30	72	48	36	26.25	48	2	24	16	32	30	36	36
20" x 20"	20	20	30	72	48	36	26.25	48	2	24	20	34	30	40	36
26" x 20"	26	20	30	72	48	36	26.25	48	2	24	26	37	30	46	36
32" x 20"	32	20	30	72	48	36	26.25	48	2	24	32	40	30	52	36
26" x 27"	26	27	39.50	104	78	42	37.50	72	2	24	26	44	30	46	36
36" x 27"	36	27	39.50	104	78	42	37.50	72	2	24	36	49	30	56	48
36" x 39"	36	39	52	108	82	42	50	84	2	24	36	61	42	56	48

Hi-Flight Conveyor Dimensional Chart - mm

Size (W x H)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
304.8 x 304.8	304.8	304.8	514.4	1524.0	1066.8	762.0	438.2	1219.2	57.2	609.6	304.8	565.2	762.0	609.6	914.4
406.4 x 304.8	406.4	304.8	514.4	1524.0	1066.8	762.0	438.2	1219.2	57.2	609.6	406.4	616.0	762.0	711.2	914.4
406.4 x 355.6	406.4	355.6	584.2	1524.0	1066.8	762.0	482.6	1219.2	57.2	609.6	406.4	666.8	762.0	711.2	914.4
533.4 x 355.6	533.4	355.6	584.2	1524.0	1066.8	762.0	482.6	1219.2	57.2	609.6	533.4	730.3	762.0	838.2	914.4
406.4 x 508.0	406.4	508.0	762.0	1828.8	1219.2	914.4	666.8	1219.2	50.8	609.6	406.4	812.8	762.0	914.4	914.4
508.0 x 508.0	508.0	508.0	762.0	1828.8	1219.2	914.4	666.8	1219.2	50.8	609.6	508.0	863.6	762.0	1016.0	914.4
660.4 x 508.0	660.4	508.0	762.0	1828.8	1219.2	914.4	666.8	1219.2	50.8	609.6	660.4	939.8	762.0	1168.4	914.4
812.8 x 508.0	812.8	508.0	762.0	1828.8	1219.2	914.4	666.8	1219.2	50.8	609.6	812.8	1016.0	762.0	1320.8	914.4
660.4 x 685.8	660.4	685.8	1003.3	2841.6	1981.2	1066.8	952.5	1828.8	50.8	609.6	660.4	1117.6	762.0	1168.4	914.4
914.4 x 685.8	914.4	685.8	1003.3	2841.6	1981.2	1066.8	952.5	1828.8	50.8	609.6	914.4	1244.6	762.0	1422.4	1219.2
914.4 x 990.6	914.4	990.6	1320.8	2743.2	2082.8	1066.8	1270	2133.6	50.8	609.6	914.4	1549.4	1066.8	1422.4	1219.2

Capacities based on dry free flowing grains @ 45 lbs./ft.³
All bypass inlets and dumps to be installed horizontally.



Hi-Flight Hopper Dimensions - inches

Conv.	A	B	C	D	E
12" x 12"	50.5	15.0	44.6	16.5	30.3
16" x 12"	50.5	19.0	44.6	14.5	30.3
16" x 14"	54.5	19.0	48.6	16.5	37.6
21" x 14"	54.5	24.0	48.6	14.0	37.6
16" x 20"	66.5	20.0	60.6	22.4	44.1
20" x 20"	66.5	24.0	60.6	20.4	44.1
26" x 20"	66.5	30.0	60.6	17.4	44.1
32" x 20"	66.5	36.0	60.6	14.4	50.1
26" x 27"	66.5	30.0	60.6	21.2	58.2

Hi-Flight Hopper Dimensions - mm

Conv.	A	B	C	D	E
304.8 x 304.8	1282.7	381.0	1133.5	419.1	768.4
406.4 x 304.8	1282.7	482.6	1133.5	368.3	768.4
406.4 x 355.6	1384.3	482.6	1235.1	419.1	955.7
533.4 x 355.6	1384.3	609.6	1235.1	355.6	955.7
406.4 x 508.0	1689.1	508.0	1539.9	569.9	1119.2
508.0 x 508.0	1689.1	609.6	1539.9	519.1	1119.2
660.4 x 508.0	1689.1	762.0	1539.9	442.9	1119.2
812.8 x 508.0	1689.1	914.4	1539.9	366.7	1271.6
660.4 x 685.8	1689.1	762.0	1539.9	538.5	1478.3

Dimension does not include projection of lining bolts

Hi-Flight Bend Sections - inches

15°	P	Q	R
12" Tall	2.5	18.8	72.0
14" Tall	2.5	18.8	72.0
20" Tall	3.8	24.8	96.0
27" Tall	3.8	24.8	96.0
39" Tall	3.7	28.0	108.0
30°	P	Q	R
12" Tall	9.8	36.0	72.0
14" Tall	9.8	36.0	72.0
20" Tall	12.8	47.5	96.0
27" Tall	12.8	47.5	96.0
39" Tall	14.5	54.0	108.0
45°	P	Q	R
12" Tall	21.0	60.0	72.0
14" Tall	21.0	60.0	72.0
20" Tall	28.0	67.5	96.0
27" Tall	28.0	67.5	96.0
39" Tall	31.6	76.4	108.0
60°	P	Q	R
12" Tall	36.0	62.5	72.0
14" Tall	36.0	62.5	72.0
20" Tall	48.0	83.3	96.0
27" Tall	48.0	83.3	96.0
39" Tall	54.0	93.5	108.0

Hi-Flight Bend Sections - mm

15°	P	Q	R
304.8mm Tall	63.5	476.3	1828.8
355.6mm Tall	63.5	476.3	1828.8
508.0mm Tall	95.3	628.7	2438.4
685.8mm Tall	95.3	628.7	2438.4



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GS-019 DEC/11

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SPECIFICATIONS 26" (660.4mm) & 32" (812.8mm) TALL EN-MASSÉ CONVEYORS

26" & 32" En-Masse Conveyor - BPH

Size (W x H)	1*	100*	110*	120*	130*	140*	150*	160*	170*	180*
26" x 26"	148	14800	16280	17760	19240	20720	22200	23680	25160	26640
32" x 26"	182	18200	20020	21840	23660	25480	27300	29120	30940	32760
32" x 32"	233	23300	25630	27960	30290	32620	34950	37280	39610	41940
36" x 32"	262	26200	28820	31440	34060	36680	39300	41920	44540	47160

660.4mm & 812.8mm En-Masse Conveyor - MTH

Size (W x H)	1	100	110	120	130	140	150	160	170	180
660.4 x 660.4	3.8	377.4	415.1	452.9	490.6	528.4	566.1	603.8	641.6	679.3
812.8 x 660.4	4.6	464.1	510.5	556.9	603.3	649.7	696.2	742.6	789.0	835.4
812.8 x 812.8	5.9	594.2	653.6	713.0	772.4	831.8	891.2	950.6	1010.1	1069.5
914.4 x 812.8	6.7	668.1	734.9	801.7	868.5	935.3	1002.2	1069.0	1135.8	1202.6

* Feet Per Minute

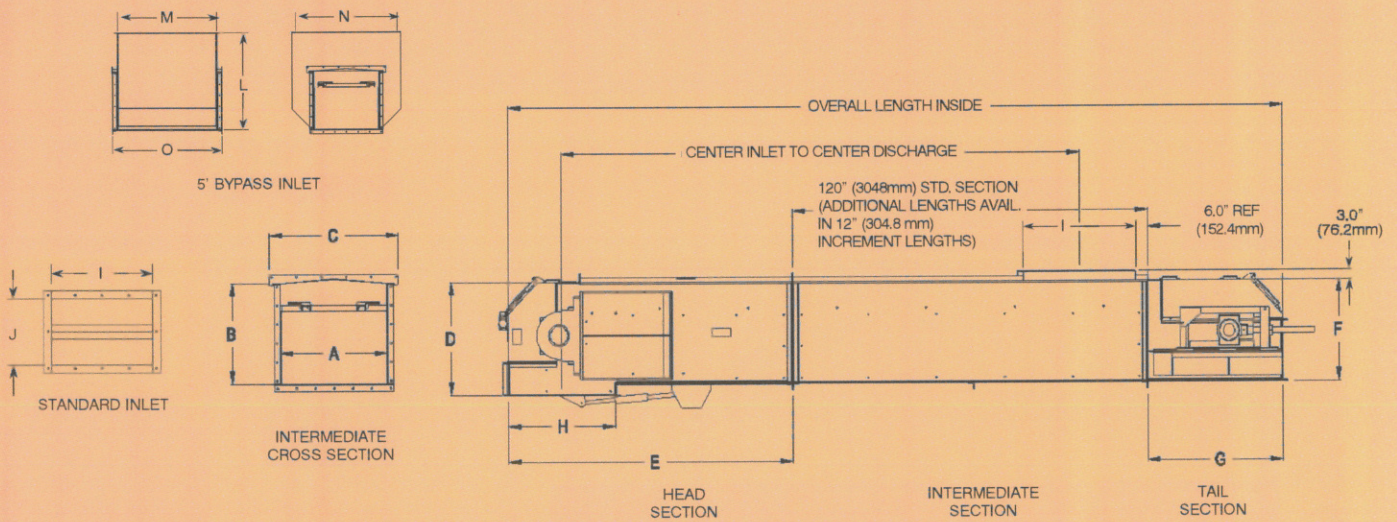
26" and 32" En-Masse Conveyor Dimensional Chart - inches

Size (W x H)	A	B	C	D	E	F	G	H	I	J	L	M	N	O*
26" x 26"	26	26	33.5	30	96	26	46	36	30	26	42.5	54	46	60
32" x 26"	32	26	39.5	30	96	26	46	36	30	32	45.5	54	52	60
32" x 32"	32	32	39.5	36	96	32	46	36	36	32	51.5	54	52	60
36" x 32"	36	32	43.5	36	96	32	46	36	36	36	53.5	54	56	60

* 60" standard length. Longer lengths are available.

660.4mm and (812.8 mm En-Masse Conveyor Dimensional Chart - mm

Size (W x H)	A	B	C	D	E	F	G	H	I	J	L	M	N	O
660.4 x 660.4	660.4	660.4	850.9	762.0	2438.4	660.4	1168.4	914.4	762.0	660.4	1079.5	1371.6	1168.4	1524
812.8 x 660.4	812.8	660.4	1003.3	762.0	2438.4	660.4	1168.4	914.4	762.0	812.8	1155.7	1371.6	1320.8	1524
812.8 x 812.8	812.8	812.8	1003.3	914.4	2438.4	812.8	1168.4	914.4	914.4	812.8	1308.1	1371.6	1320.8	1524
914.4 x 812.8	914.4	812.8	1104.9	914.4	2438.4	812.8	1168.4	914.4	914.4	914.4	1358.9	1371.6	1422.4	1524

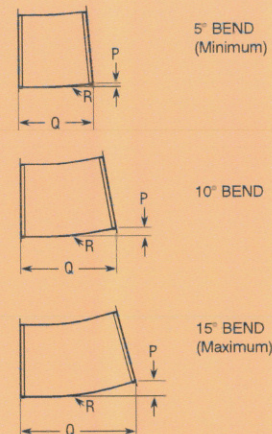


26" & 32" En-Masse Bend Section Dimensions - inches

Size (W x H)	5° BEND			10° BEND			15° BEND		
	P	Q	R	P	Q	R	P	Q	R
26" x 26"	1.4375	33.375	107.875	3.75	42.5625	107.875	6.8125	51.5	107.875
32" x 26"	1.4375	33.375	107.875	3.75	42.5625	107.875	6.8125	51.5	107.875
32" x 32"	1.4375	33.375	107.875	3.75	42.5625	107.875	6.8125	51.5	107.875
36" x 32"	1.4375	33.375	107.875	3.75	42.5625	107.875	6.8125	51.5	107.875

660.4mm & 812.8mm En-Masse Bend Section Dimensions - mm

Size (W x H)	5° BEND			10° BEND			15° BEND		
	P	Q	R	P	Q	R	P	Q	R
228.6 x 304.8	36.5125	847.725	2740.025	95.25	1081.0875	2740.025	173.0375	1308.1	2740.025
304.8 x 304.8	36.5125	847.725	2740.025	95.25	1081.0875	2740.025	173.0375	1308.1	2740.025
406.4 x 304.8	36.5125	847.725	2740.025	95.25	1081.0875	2740.025	173.0375	1308.1	2740.025
406.4 x 355.6	36.5125	847.725	2740.025	95.25	1081.0875	2740.025	173.0375	1308.1	2740.025



GENERAL NOTES:

- Capacities based on dry, free flowing, granular material conveyed horizontally with proper loading and discharging conditions at 45#/CF. (721 kg/m³).
- Capacities based on using top load inlets. Bypass inlets will reduce capacity. Consult inside sales.
- General specifications and dimensions are subject to change without notice.
- General specifications and dimensions are intended to provide sales assistance and a preliminary guide to system layout only.

SPECIFICATIONS ENCLOSED BELT CONVEYORS

Enclosed Belt Conveyor Standard Capacities - FPM

Capacity			Model					
BPH	CFH	MTH	24*	30*	36*	42*	48*	54*
8000	10000	204	400	-	-	-	-	-
10000	12500	255	563	-	-	-	-	-
12000	15000	306	650	400	-	-	-	-
15000	18750	383	-	500	-	-	-	-
20000	25000	510	-	650	480	-	-	-
25000	31250	638	-	-	600	-	-	-
30000	37500	765	-	-	700	550	-	-
35000	43750	893	-	-	-	640	-	-
40000	50000	1021	-	-	-	750	600	500
45000	56250	1148	-	-	-	-	675	550
50000	62500	1276	-	-	-	-	750	625
57000	71250	1454	-	-	-	-	-	700

* Belt Speed in Feet Per Minute

Enclosed Belt Conveyor Standard Capacities - m/s

Capacity			Model					
BPH	CFH	MTH	24	30	36	42	48	54
8000	10000	204	2.03	-	-	-	-	-
10000	12500	255	2.86	-	-	-	-	-
12000	15000	306	3.30	2.03	-	-	-	-
15000	18750	383	-	2.54	-	-	-	-
20000	25000	510	-	3.30	2.44	-	-	-
25000	31250	638	-	-	3.05	-	-	-
30000	37500	765	-	-	3.56	2.79	-	-
35000	43750	893	-	-	-	3.25	-	-
40000	50000	1021	-	-	-	3.81	3.05	2.54
45000	56250	1148	-	-	-	-	3.43	2.79
50000	62500	1276	-	-	-	-	3.81	3.18
57000	71250	1454	-	-	-	-	-	3.56

Options & Accessories:

- 1/2" (12.7mm) UHMW Bottom Liner
- Heavy Idler Assemblies
- Low Profile Heads
- Low Profile Loaders
- Clean-out Inlets
- Ceramic Tile and Other Liner Options

Capacities based on dry, free flowing, granular material at 45 Lbs/CF (721 Kg/CM) at horizontal

Enclosed Belt Conveyor Dimensions - inches

MODEL	A*	B*	C*	D*	E* MIN*	E* MAX	F**	G*	H*	I*	J*	K*	L*	M*	N*	O*	P*	Q*	R*
24	26	30	47	120	48	66	76	5	6	24	14	19	15	30	27	26	30	43	38
30	26	30	47	120	48	66	76	5	6	24	16	19	15	30	33	32	36	49	44
36	26	30	47	120	48	66	76	5	6	24	22	19	15	30	39	38	42	55	50
42	26	30	47	120	48	66	76	5	6	24	28	19	15	30	45	44	48	61	56
48	26	30	47	120	48	66	76	5	6	24	34	19	15	30	51	50	54	67	62
54	26	30	47	120	48	66	76	5	6	24	40	19	15	30	57	56	60	73	68

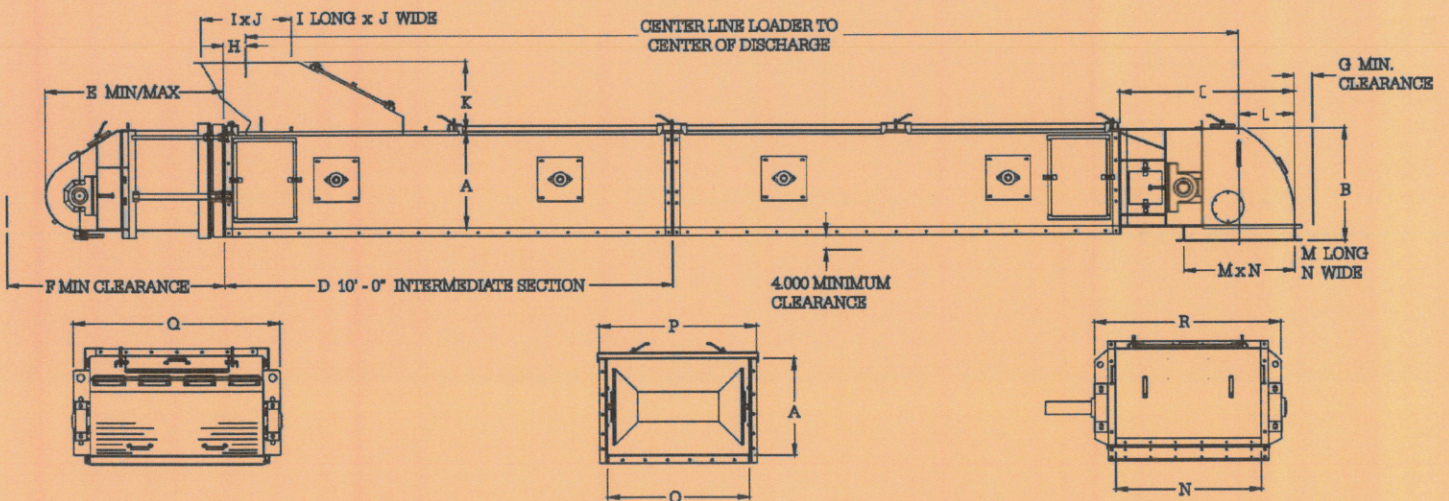
* inches

** Based on 18.00" take-up. For actual take-up, see approval drawing.

Enclosed Belt Conveyor Dimensions - mm

MODEL	A	B	C	D	E MIN*	E MAX	F**	G	H	I	J	K	L	M	N	O	P	Q	R
24	660	765	1196	3048	1215	1670	1930	127	152	610	356	478	381	762	686	660	767	1097	972
30	660	765	1196	3048	1215	1670	1930	127	152	610	406	478	381	762	838	813	919	1249	1124
36	660	765	1196	3048	1215	1670	1930	127	152	610	559	478	381	762	991	965	1072	1402	1277
42	660	765	1196	3048	1215	1670	1930	127	152	610	711	478	381	762	1143	1118	1224	1554	1429
48	660	765	1196	3048	1215	1670	1930	127	152	610	864	478	381	762	1295	1270	1377	1707	1581
54	660	765	1196	3048	1215	1670	1930	127	152	610	1016	478	381	762	1448	1422	1529	1859	1734

** Based on 18.00" take-up. For actual take-up, see approval drawing.



General specifications and dimensions are subject to change without notice.
 General specifications and dimensions are intended to provide sales assistance and a preliminary guide to system layout only.

Bucket Elevators Dimensions - inches

MODEL	BPH	CFH	MTH	Pulley	RPM	FPM	Bucket Size	Bucket Spacing	Trunking Size
15P16/15G16	1500	1875	38	16	95	423	9 X 5	9	10 X 16
20P16/20G16	2000	2500	51	16	95	423	9 X 5	7	10 X 16
25P16/25G16	2500	3125	63	16	95	423	9 X 6	8	10 X 16
30P16/30G16	3000	3750	76	16	95	423	9 X 6	6.5	10 X 16
30P24/30G24	3000	3750	76	24	73	478	10 X 6	8	10 X 16
40P24/40G24	4000	5000	101	24	73	478	11 X 6	7	10 X 16
50P24/50G24	5000	6250	127	24	73	478	11 X 6 Lp	5.5	10 X 16
56P24/56G24	5600	7000	142	24	73	478	11 X 6 Lp	5	10 X 16
50P30/50G30	5000	6250	127	30	67	544	13 X 6	8	12 X 18
60P30/60G30	6000	7500	152	30	67	544	13 X 7	9	12 X 18
70P30/70G30	7000	8750	177	30	67	544	13 X 7	8	12 X 18
50P36/50G36	5000	6250	127	36	64	620	12 X 6	8	12 X 18
60P36/60G36	6000	7500	152	36	64	620	11 X 7	8.5	12 X 18
70P36/70G36	7000	8750	177	36	64	620	13 X 7	9	12 X 18
75P36/75G36	7500	9375	191	36	64	620	13 X 7	8.5	12 X 18
80P36/80G36	8000	10,000	204	36	64	620	13 X 7	8	12 X 18
100P36/100G36	10,000	12,500	255	36	64	620	13 X 7 Lp	6	12 X 18
80P42/80G42	8000	10,000	204	42	60	675	14 X 7	9	14 X 22
100P42/100G42	10,000	12,500	255	42	60	675	14 X 8	10	14 X 22
120P42/120G42	12,000	15,000	306	42	60	675	16 X 8	10	14 X 22
140P42/140G42	14,000	17,500	355	42	60	675	16 X 8	9	14 X 22
150P42/150G42	15,000	18,750	382	42	60	675	16 X 8 Lp	7.5	14 X 22
200P42/200G42	20,000	25,000	510	42	60	675	20 X 8 Lp	7	14 X 26
140P48/140G48	14,000	17,500	355	48	56	720	16 X 8	9.5	14 X 26
150P48/150G48	15,000	18,750	382	48	56	720	18 X 8	9.5	14 X 26
160P48/160G48	16,000	20,000	405	48	56	720	18 X 8	9	14 X 26
200P48/200G48	20,000	25,000	510	48	56	720	20 X 8 Lp	7.5	14 X 26
250P42	25,000	31,250	637	42	60	675	(2) 14 X 8 Lp	7.5	14 X 38
300P42	30,000	37,500	760	42	60	675	(2) 16 X 8 Lp	7.5	14 X 42
400P42	40,000	50,000	1013	42	60	675	(2) 20 X 8 Lp	7	14 X 50
250P48	25,000	31,250	637	48	56	720	(2) 14 X 8	9	14 X 38
300P48	30,000	37,500	760	48	56	720	(2) 16 X 8	9	14 X 42
400P48	40,000	50,000	1013	48	56	720	(2) 20 X 8 Lp	7.5	14 X 50
400P48	40,000	50,000	1013	48	56	720	(3) 16 X 8	9.5	14 X 60
500P48	50,000	62,500	1267	48	56	720	(3) 16 X 8	7	14 X 60
500P48	50,000	62,500	1267	48	56	720	(3) 20 X 8	9.5	16 X 72
600P48	60,000	75,000	1520	48	56	720	(3) 20 X 8 Lp	7.5	16 X 72

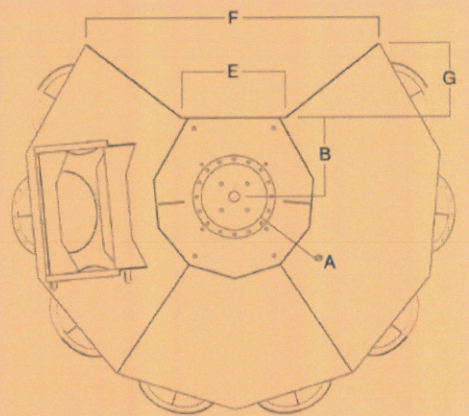
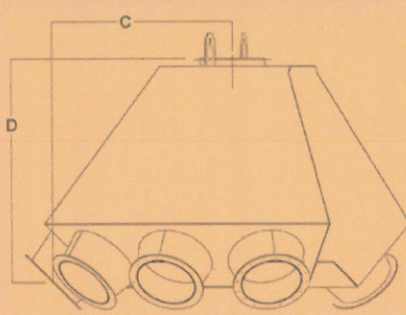
Bucket Elevators Dimensions - mm

MODEL	BPH	CFH	MTH	Pulley	RPM	M/S	Bucket Size	Bucket Spacing	Trunking Size
15P16/15G16	1500	1875	38	16	95	2.15	228 X 127	228	254 X 406
20P16/20G16	2000	2500	51	16	95	2.15	228 X 127	178	254 X 406
25P16/25G16	2500	3125	63	16	95	2.15	228 X 153	203	254 X 406
30P16/30G16	3000	3750	76	16	95	2.15	228 X 153	166	254 X 406
30P24/30G24	3000	3750	76	24	73	2.43	254 X 153	203	254 X 406
40P24/40G24	4000	5000	101	24	73	2.43	279 X 153	178	254 X 406
50P24/50G24	5000	6250	127	24	73	2.43	279 X 153	140	254 X 406
56P24/56G24	5600	7000	142	24	73	2.43	279 X 153	127	254 X 406
50P30/50G30	5000	6250	127	30	67	2.76	330 X 153	203	304 X 457
60P30/60G30	6000	7500	152	30	67	2.76	330 X 178	228	304 X 457
70P30/70G30	7000	8750	177	30	67	2.76	330 X 178	203	304 X 457
50P36/50G36	5000	6250	127	36	64	3.15	305 X 153	203	304 X 457
60P36/60G36	6000	7500	152	36	64	3.15	279 X 178	216	304 X 457
70P36/70G36	7000	8750	177	36	64	3.15	330 X 178	228	304 X 457
75P36/75G36	7500	9375	191	36	64	3.15	330 X 178	216	304 X 457
80P36/80G36	8000	10,000	204	36	64	3.15	330 X 178	203	304 X 457
100P36/100G36	10,000	12,500	255	36	64	3.15	330 X 178	153	304 X 457
80P42/80G42	8000	10,000	204	42	60	3.43	355 X 178	228	355 X 558
100P42/100G42	10,000	12,500	255	42	60	3.43	355 X 203	254	355 X 558
120P42/120G42	12,000	15,000	306	42	60	3.43	406 X 203	254	355 X 558
140P42/140G42	14,000	17,500	355	42	60	3.43	406 X 203	228	355 X 558
150P42/150G42	15,000	18,750	382	42	60	3.43	406 X 203	191	355 X 558
200P42/200G42	20,000	25,000	510	42	60	3.43	508 X 203	178	355 X 660
140P48/140G48	14,000	17,500	355	48	56	3.65	406 X 203	241	355 X 660
150P48/150G48	15,000	18,750	382	48	56	3.65	457 X 203	241	355 X 660
160P48/160G48	16,000	20,000	405	48	56	3.65	457 X 203	228	355 X 660
200P48/200G48	20,000	25,000	510	48	56	3.65	508 X 203	191	355 X 660
250P42	25,000	31,250	637	42	60	3.43	(2) 355 X 203	191	355 X 965
300P42	30,000	37,500	760	42	60	3.43	(2) 406 X 203	191	355 X 1066
400P42	40,000	50,000	1013	42	60	3.43	(2) 508 X 203	178	355 X 1270
250P48	25,000	31,250	637	48	56	3.65	(2) 355 X 203	228	355 X 965
300P48	30,000	37,500	760	48	56	3.65	(2) 406 X 203	228	355 X 1066
400P48	40,000	50,000	1013	48	56	3.65	(2) 508 X 203	191	355 X 1270
400P48	40,000	50,000	1013	48	56	3.65	(3) 406 X 203	241	355 X 1524
500P48	50,000	62,500	1267	48	56	3.65	(3) 406 X 203	178	355 X 1524
500P48	50,000	62,500	1267	48	56	3.65	(3) 508 X 203	241	406 X 1829
600P48	60,000	75,000	1520	48	56	3.65	(3) 508 X 203	191	406 X 1829

Color Guide	
	Powder Coated or Galvanized
	Powder Coated Only

- Capacities based on dry, free flowing, granular material with proper loading and unloading conditions at 45#/CF. (721kg/m³) using conservative cup capacities per manufacturer's recommendations.
- The raw material gauge specifications refer to hot rolled steel. For galvanized steel requirements the specifications are identical, except 8 Ga. (4.26mm) galvanized steel replaces 7 Ga. (4.55mm) hot rolled steel.
- General specifications and dimensions are subject to change without notice.
- General specifications and dimensions are intended to provide sales assistance and preliminary guide to system layout only.

SPECIFICATIONS DISTRIBUTORS



A	Outlets	B	C	D	E	F	G
6"	4 Hole	9-7/16"	21-13/16"	30-21/32"	-	-	-
	6 Hole	11-3/32"	21-13/16"	30-9/16"	42-9/16"	-	-
	8 Hole	10-3/32"	27-21/32"	35-1/32"	16"	50-19/32"	2-3/16"
8"	6 Hole	11-1/8"	21-13/16"	30-5/8"	42-9/16"	-	-
	8 Hole	12-1/8"	26-7/8"	35-11/16"	15-31/32"	46-3/8"	3-3/16"
	10 Hole	12-1/8"	34-5/8"	43-3/8"	15-15/16"	56-3/16"	10-7/16"
10"	6 Hole	12-1/8"	26-1/16"	33-1/8"	53-5/32"	-	-
	8 Hole	12-1/8"	29-13/16"	36-15/16"	15-15/16"	15-1/4"	11-7/16"
	10 Hole	12-1/8"	40-3/8"	47-1/2"	15-15/16"	66-13/16"	14-11/16"
12"	4 Hole	13-1/8"	28-1/8"	34-13/16"	24-3/4"	-	-
	6 Hole	13-1/8"	28-1/8"	34-13/16"	59-5/16"	-	-
	8 Hole	12-1/8"	35-1/16"	41-3/4"	15-15/16"	61-7/8"	11"
14"	4 Hole	13-3/32"	44-1/16"	51-17/32"	15-15/16"	73-15/16"	16-13/32"
	6 Hole	14-31/32"	32-29/32"	47-7/16"	29-3/16"	-	-
	8 Hole	15"	32-29/32"	46-27/32"	67-27/32"	-	-

A (mm)	Outlets	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
152.4	4 Hole	239.7	554.0	778.7	-	-	-
	6 Hole	281.8	554.0	776.3	1081.1	-	-
	8 Hole	256.4	702.5	889.8	406.4	1285.1	55.6
203.2	6 Hole	282.6	554.0	777.9	1081.1	-	-
	8 Hole	308.0	682.6	906.5	405.6	923.9	81.0
	10 Hole	308.0	879.5	1101.7	404.8	1427.2	265.1
254.0	6 Hole	308.0	662.0	841.4	1350.2	-	-
	8 Hole	308.0	757.2	938.2	404.8	387.4	290.5
	10 Hole	308.0	1025.5	1206.5	404.8	1697.0	373.1
304.8	4 Hole	333.4	714.4	884.2	628.7	-	-
	6 Hole	333.4	714.4	884.2	1506.5	-	-
	8 Hole	308.0	890.6	1060.5	404.8	1571.6	279.4
355.6	10 Hole	332.6	1119.2	1308.9	404.8	1878.0	416.7
	4 Hole	380.2	835.8	1204.9	741.4	-	-
	6 Hole	381.0	835.8	1189.8	1723.2	-	-
8 Hole	308.0	1023.9	1241.4	404.8	1795.5	362.0	

* All 4 and 6 hole distributors are flat back.
* All 8 and 10 hole distributors are wing back.

SPECIFICATIONS 12" (304.8mm), 14" (355.6mm), 20" (508mm) EN-MASSÉ CONVEYORS

12", 14", & 20" En-Masse Conveyor - BPH

12", 14", & 20" En-Masse Conveyor - MTH

Size (W x H)	1*	100*	110*	120*	130*	140*	150*	160*	170*	180*	Size (W x H)	1	100	110	120	130	140	150	160	170	180
9" x 12"	21	2100	2310	2520	2730	2940	3150	3360	3570	3780	228.6 x 304.8	0.5	53.6	58.9	64.3	69.6	75.0	80.3	85.7	91.0	96.4
12" x 12"	28	2800	3080	3360	3640	3920	4200	4480	4760	5040	304.8 x 304.8	0.7	71.4	78.5	85.7	92.8	100.0	107.1	114.2	121.4	128.5
16" x 12"	37	3700	4070	4440	4810	5180	5550	5920	6290	6660	406.4 x 304.8	0.9	94.4	103.8	113.2	122.7	132.1	141.5	151.0	160.4	169.8
16" x 14"	45	4500	4950	5400	5850	6300	6750	7200	7650	8100	406.4 x 355.6	1.1	114.8	126.2	137.7	149.2	160.7	172.1	183.6	195.1	206.6
21" x 14"	60	5950	6545	7140	7735	8330	8925	9520	10115	10710	533.4 x 355.6	1.5	151.7	166.9	182.1	197.2	212.4	227.6	242.8	257.9	273.1
14" x 20"	65	6500	7150	7800	8450	9100	9750	10400	11050	11700	355.6 x 508.0	1.7	165.8	182.3	198.9	215.5	232.1	248.6	265.2	281.8	298.4
16" x 20"	75	7450	8195	8940	9685	10430	11175	11920	12665	13410	406.4 x 508.0	1.9	190.0	209.0	228.0	247.0	266.0	285.0	304.0	323.0	342.0
20" x 20"	93	9300	10230	11160	12090	13020	13950	14880	15810	16740	508.0 x 508.0	2.4	237.2	260.9	284.6	308.3	332.0	355.7	379.4	403.2	426.9
26" x 20"	121	12100	13310	14520	15730	16940	18150	19360	20570	21780	660.4 x 508.0	3.1	308.6	339.4	370.3	401.1	432.0	462.8	493.7	524.5	555.4
32" x 20"	142	14200	15620	17040	18460	19880	21300	22720	24140	25560	812.8 x 508.0	3.6	362.1	398.3	434.5	470.7	506.9	543.2	579.4	615.6	651.8

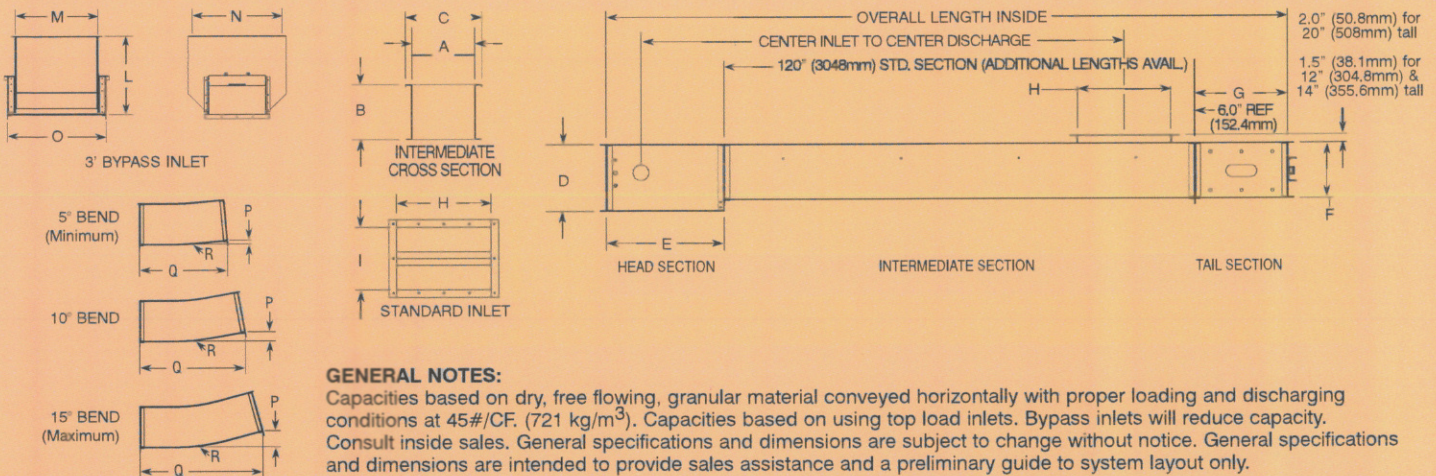
* Feet Per Minute

12", 14", & 20" En-Masse Conveyor Dimensions - inches

304.8mm, 355.6mm, & 508mm En-Masse Conveyor Dimensions - mm

Size (W x H)	A	B	C	D	E	F	G	H	I	L	M	N	O*	Size (W x H)	A	B	C	D	E	F	G	H	I	L	M	N	O*	
9" x 12"	9	12	13	15	24	12	24	24	9	20.75	30	21	36	228.6 x 304.8	228.6	304.8	325.1	381.0	609.6	304.8	609.6	609.6	609.6	228.6	527.1	762.0	533.4	914.4
12" x 12"	12	12	16	15	24	12	24	24	12	22.25	30	24	36	304.8 x 304.8	304.8	304.8	401.3	381.0	609.6	304.8	609.6	609.6	609.6	304.8	565.2	762.0	609.6	914.4
16" x 12"	16	12	20	15	24	12	24	24	16	24.25	30	28	36	406.4 x 304.8	406.4	304.8	502.9	381.0	609.6	304.8	609.6	609.6	406.4	616.0	762.0	711.2	914.4	
16" x 14"	16	14	20	17	30	14	24	24	16	26.25	30	28	36	406.4 x 355.6	406.4	355.6	502.9	431.8	762.0	355.6	609.6	609.6	406.4	666.8	762.0	711.2	914.4	
21" x 14"	21	14	25	17	30	14	24	24	21	28.75	30	33	36	533.4 x 355.6	533.4	355.6	629.9	431.8	762.0	355.6	609.6	609.6	533.4	730.3	762.0	838.2	914.4	
14" x 20"	14	20	19	23	36	20	30	24	14	31	30	34	36	355.6 x 508.0	355.6	508.0	477.5	584.2	914.4	508.0	762.0	609.6	355.6	787.4	762.0	863.6	914.4	
16" x 20"	16	20	21	23	36	20	30	24	16	32	30	36	36	406.4 x 508.0	406.4	508.0	528.3	584.2	914.4	508.0	762.0	609.6	406.4	812.8	762.0	914.4	914.4	
20" x 20"	20	20	25	23	36	20	30	24	20	34	30	40	36	508.0 x 508.0	508.0	508.0	629.9	584.2	914.4	508.0	762.0	609.6	508.0	863.6	762.0	1016.0	914.4	
26" x 20"	26	20	31	23	36	20	30	24	26	37	30	46	36	660.4 x 508.0	660.4	508.0	782.3	584.2	914.4	508.0	762.0	609.6	660.4	939.8	762.0	1168.4	914.4	
32" x 20"	32	20	37	23	36	20	30	24	32	40	30	52.25	36	812.8 x 508.0	812.8	508.0	934.7	584.2	914.4	508.0	762.0	609.6	812.8	1016.0	762.0	1327.2	914.4	

* 36" standard length. Longer lengths are available.



12", 14", & 20" En-Masse Bend Section Dimensions - inches

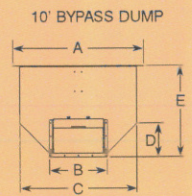
304.8mm, 355.6mm, & 508mm En-Masse Bend Section Dimensions - mm

Size (W x H)	5° BEND			10° BEND			15° BEND			Size (W x H)	5° BEND			10° BEND			15° BEND		
	P	Q	R	P	Q	R	P	Q	R		P	Q	R	P	Q	R	P	Q	R
9" x 12"	1.319	30.218	71.87	3.175	36.297	71.87	5.554	42.192	71.87	228.6 x 304.8	33.513	767.537	1825.498	80.645	921.944	1825.498	141.072	1071.677	1825.498
12" x 12"	1.319	30.218	71.87	3.175	36.297	71.87	5.554	42.192	71.87	304.8 x 304.8	33.513	767.537	1825.498	80.645	921.944	1825.498	141.072	1071.677	1825.498
16" x 12"	1.319	30.218	71.87	3.175	36.297	71.87	5.554	42.192	71.87	406.4 x 304.8	33.513	767.537	1825.498	80.645	921.944	1825.498	141.072	1071.677	1825.498
16" x 14"	1.319	30.218	71.87	3.175	36.297	71.87	5.554	42.192	71.87	406.4 x 355.6	33.513	767.537	1825.498	80.645	921.944	1825.498	141.072	1071.677	1825.498
21" x 14"	1.319	30.218	71.87	3.175	36.297	71.87	5.554	42.192	71.87	533.4 x 355.6	33.513	767.537	1825.498	80.645	921.944	1825.498	141.072	1071.677	1825.498
14" x 20"	1.45	33.35	107.87	3.54	40.465	107.87	6.78	51.50	107.87	355.6 x 508.0	36.83	847.09	2739.898	89.916	1027.811	2739.898	172.212	1308.1	2739.898
16" x 20"	1.45	33.35	107.87	3.54	40.465	107.87	6.78	51.50	107.87	406.4 x 508.0	36.83	847.09	2739.898	89.916	1027.811	2739.898	172.212	1308.1	2739.898
20" x 20"	1.45	33.35	107.87	3.54	40.465	107.87	6.78	51.50	107.87	508.0 x 508.0	36.83	847.09	2739.898	89.916	1027.811	2739.898	172.212	1308.1	2739.898
26" x 20"	1.45	33.35	107.87	3.54	40.465	107.87	6.78	51.50	107.87	660.4 x 508.0	36.83	847.09	2739.898	89.916	1027.811	2739.898	172.212	1308.1	2739.898
32" x 20"	1.45	33.35	107.87	3.54	40.465	107.87	6.78	51.50	107.87	812.8 x 508.0	36.83	847.09	2739.898	89.916	1027.811	2739.898	172.212	1308.1	2739.898

12", 14", & 20" En-Masse 10° Bypass Dump Dimensions - inches

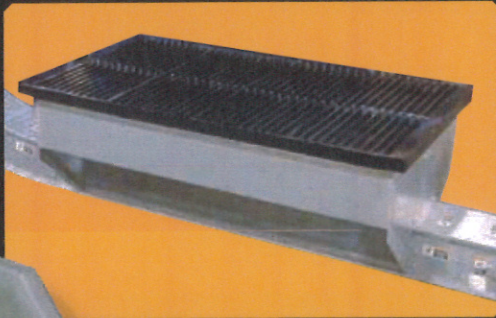
304.8mm, 355.6mm, & 508mm En-Masse 10° Bypass Dump Dimensions - mm

Size (W x H)	A	B	C	D	E	Size (W x H)	A	B	C	D	E
9" x 12"	50.5	12	44.63	18	30.25	9" x 12"	50.5	12	44.63	18	30.25
12" x 12"	50.5	15	44.63	16.5	30.25	12" x 12"	50.5	15	44.63	16.5	30.25
16" x 12"	50.5	19	44.63	14.5	30.25	16" x 12"	50.5	19	44.63	14.5	30.25
16" x 14"	54.5	19	48.63	16.5	37.63	16" x 14"	54.5	19	48.63	16.5	37.63
21" x 14"	54.5	24	48.63	14	37.63	21" x 14"	54.5	24	48.63	14	37.63
14" x 20"	66.5	18	60.63	23.44	44.06	14" x 20"	66.5	18	60.63	23.44	44.06
16" x 20"	66.5	20	60.63	22.44	44.06	16" x 20"	66.5	20	60.63	22.44	44.06
20" x 20"	66.5	24	60.63	20.44	44.06	20" x 20"	66.5	24	60.63	20.44	44.06
26" x 20"	66.5	30	60.63	17.44	44.06	26" x 20"	66.5	30	60.63	17.44	44.06
32" x 20"	66.5	36	60.63	14.44	50.06	32" x 20"	66.5	36	60.63	14.44	50.06

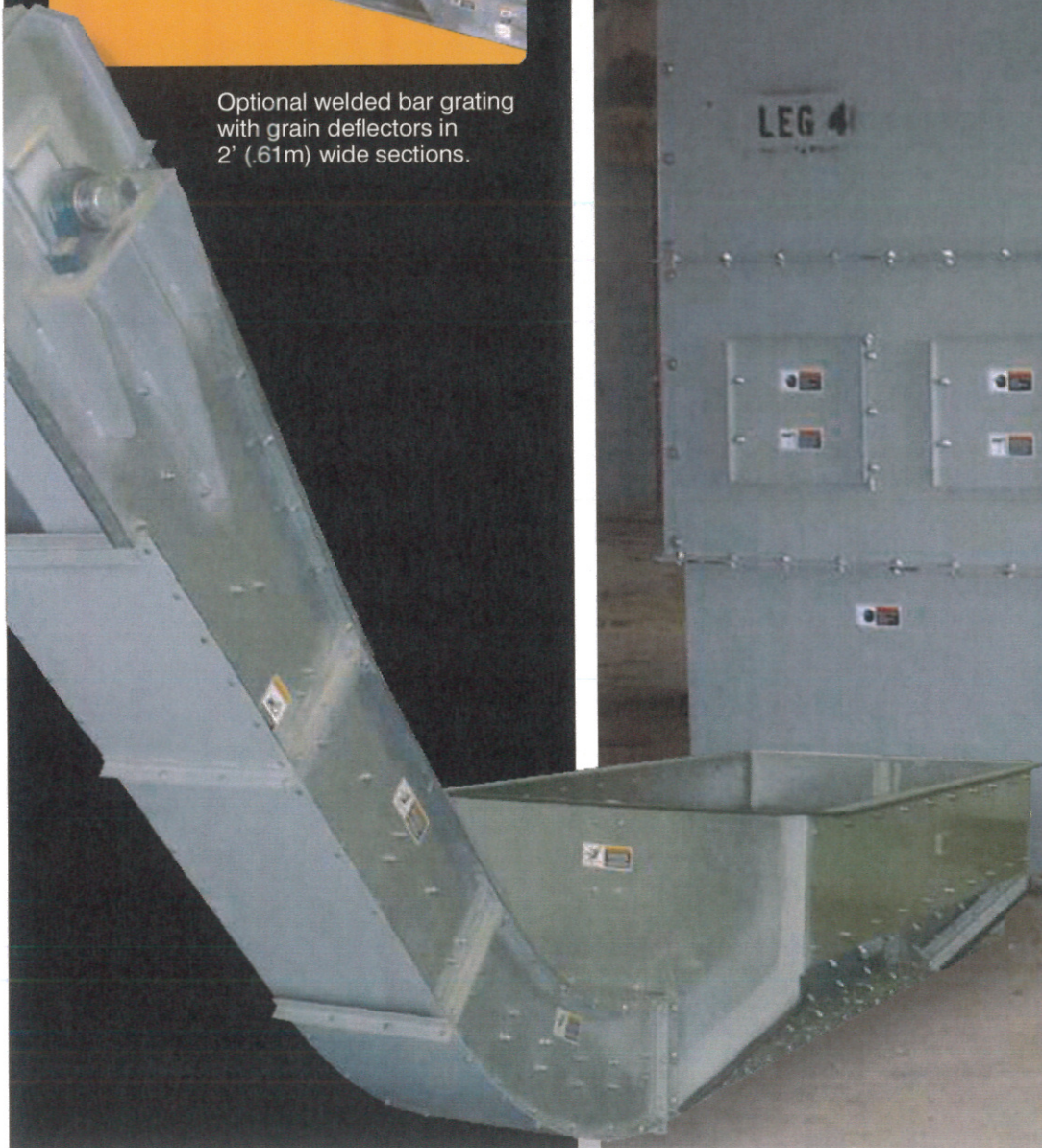




By-Pass Dump Hoppers are available



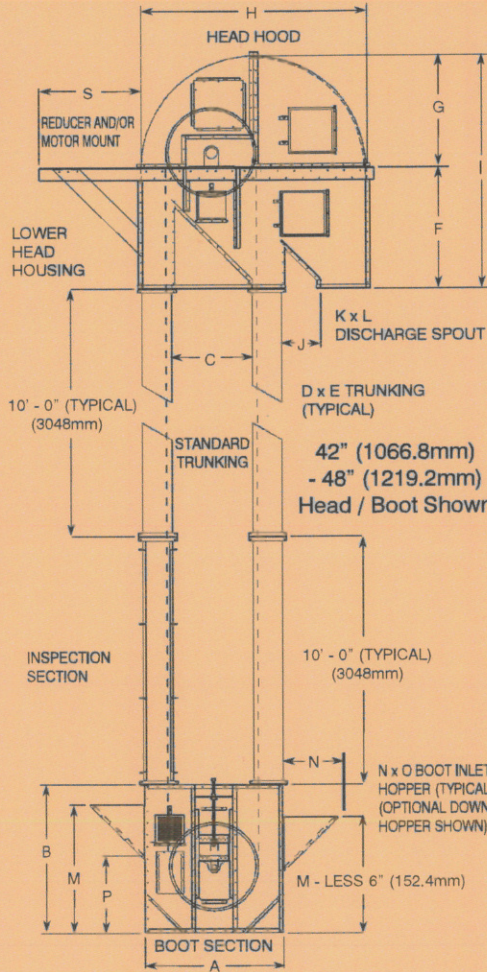
Optional welded bar grating with grain deflectors in 2' (.61m) wide sections.



SPECIFICATIONS BUCKET ELEVATORS

Single Row Bucket Elevators
Dimensions - inches

Pulley size	16	24	30	36	42	42	48
BPH	1500-3000	3000-5600	5000-7000	5000-10000	8000-15000	20000	14000-20000
CFH	1875-3750	3750-7000	6250-8750	6250-12500	10000-18750	25000	17500-25000
MTH	38-76	102-142	127-177	127-254	204-381	510	356-510
A	34"	42"	52"	58"	67"	67"	73"
B	60"	60"	60"	60"	72"	72"	72"
C	14"	22"	28"	34"	39"	39"	45"
D	10"	10"	12"	12"	14"	14"	14"
E	16"	16"	18"	18"	22"	26"	26"
F	36"	36"	46.5"	46.5"	58.5"	58.5"	58.5"
G	29"	33"	42"	48"	60"	60"	60"
H	58"	66"	84"	96"	108"	108"	120"
I	65"	69"	88.5"	94.5"	118.5"	118.5"	118.5"
J	12"	12"	14"	20"	19"	19"	23"
K	12"	12"	18"	18"	22"	22"	24"
L	16"	16"	18"	18"	22"	26"	26"
M	35"	42"	50"	53"	62"	62"	69"
N	14"	16"	20"	20"	24"	24"	28"
O	10"	13"	14"	14"	16"	18"	18"
P	21"	26"	30"	33"	38"	38"	41"
S	30"	30"	37"	34"	50"	50"	62"
T	49"	41"	61"	56"	76"	75"	86"
U	39"	39"	24"	23"	28"	44"	52"
V	52"	52"	52"	52"	53"	53"	58"
W	122"	122"	137"	137"	171"	188"	212"
X	47"	47"	58"	56"	41"	40"	43"
Y	47"	47"	44"	44"	53"	66"	67"
Z	112"	112"	124"	123"	120"	136"	140"



Single Row Bucket Elevators
Dimensions - mm

Pulley size	406	610	762	914	1066	1066	1219
BPH	1500-3000	3000-5600	5000-7000	5000-10000	8000-15000	20000	14000-20000
CFH	1875-3750	3750-7000	6250-8750	6250-12500	10000-18750	25000	17500-25000
MTH	38-76	102-142	127-177	127-254	204-381	510	356-510
A	864	1067	1321	1473	1702	1702	1854
B	1524	1524	1524	1524	1829	1829	1829
C	356	559	711	864	991	991	1143
D	254	254	305	305	356	356	356
E	406	406	457	457	559	660	660
F	914	914	1181	1181	1486	1486	1486
G	737	838	1067	1219	1524	1524	1524
H	1473	1676	2134	2438	2743	2743	3048
I	1651	1753	2248	2400	3010	3010	3010
J	305	305	356	508	483	483	584
K	305	305	457	457	559	559	610
L	406	406	457	457	559	660	660
M	889	1067	1270	1346	1575	1575	1753
N	356	406	508	508	610	610	711
O	254	330	356	356	406	457	457
P	533	660	762	838	965	965	1041
S	762	762	940	864	1270	1270	1575
T	1244	1041	1549	1422	1930	1905	2184
U	990	990	609	584	711	1118	1321
V	1320	1320	1320	1320	1346	1346	1473
W	3098	3098	3479	3479	4343	4775	5385
X	1194	1194	1473	1422	1041	1016	1092
Y	1194	1194	1118	1118	1346	1676	1702
Z	2845	2845	3150	3124	3048	3454	3556

Two Row Bucket Elevators
Dimensions - in

Pulley size	42-250	42-300	42-400	48-250	48-300	48-400
BPH	25000	30000	40000	25000	30000	40000
CFH	31250	37500	50000	31250	37500	50000
MTH	637	765	1020	637	765	1020
A	67"	67"	67"	73"	73"	73"
B	72"	72"	72"	72"	72"	72"
C	39"	39"	39"	45"	45"	45"
D	14"	14"	14"	14"	14"	14"
E	38"	42"	50"	38"	42"	50"
F	58.5"	58.5"	58.5"	58.5"	58.5"	58.5"
G	60"	60"	60"	60"	60"	60"
H	108"	108"	108"	120"	120"	120"
I	118.5"	118.5"	118.5"	118.5"	118.5"	118.5"
J	19"	19"	19"	23"	23"	23"
K	22"	22"	22"	24"	24"	24"
L	38"	42"	50"	38"	42"	50"
M	62"	62"	62"	69"	69"	69"
N	24"	24"	24"	28"	28"	28"
O	30"	36"	42"	30"	34"	42"
P	38"	38"	38"	41"	41"	41"
S	50"	50"	50"	62"	62"	62"

Two Row Bucket Elevators
Dimensions - mm

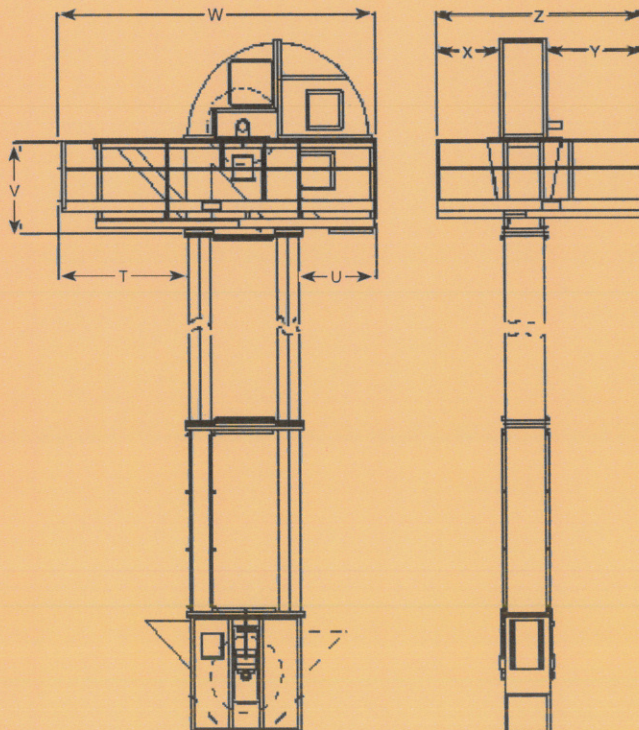
Pulley size	1066	1066	1066	1219	1219	1219
BPH	25000	30000	40000	25000	30000	40000
CFH	31250	37500	50000	31250	37500	50000
MTH	637	765	1020	637	765	1020
A	1702	1702	1702	1854	1854	1854
B	1829	1829	1829	1829	1829	1829
C	991	991	991	1143	1143	1143
D	356	356	356	356	356	356
E	965	1067	1270	965	1067	1270
F	1486	1486	1486	1486	1486	1486
G	1524	1524	1524	1524	1524	1524
H	2743	2743	2743	3048	3048	3048
I	3010	3010	3010	3010	3010	3010
J	483	483	483	584	584	584
K	559	559	559	610	610	610
L	965	1067	1270	965	1067	1270
M	1575	1575	1575	1753	1753	1753
N	610	610	610	711	711	711
O	762	914	1067	762	864	1067
P	965	965	965	1041	1041	1041
S	1270	1270	1270	1575	1575	1575

Three Row Bucket Elevators
Dimensions - in.

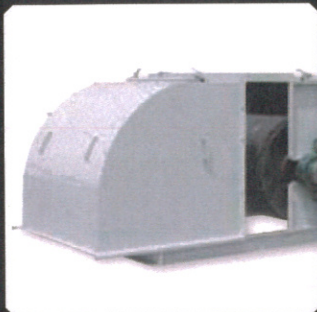
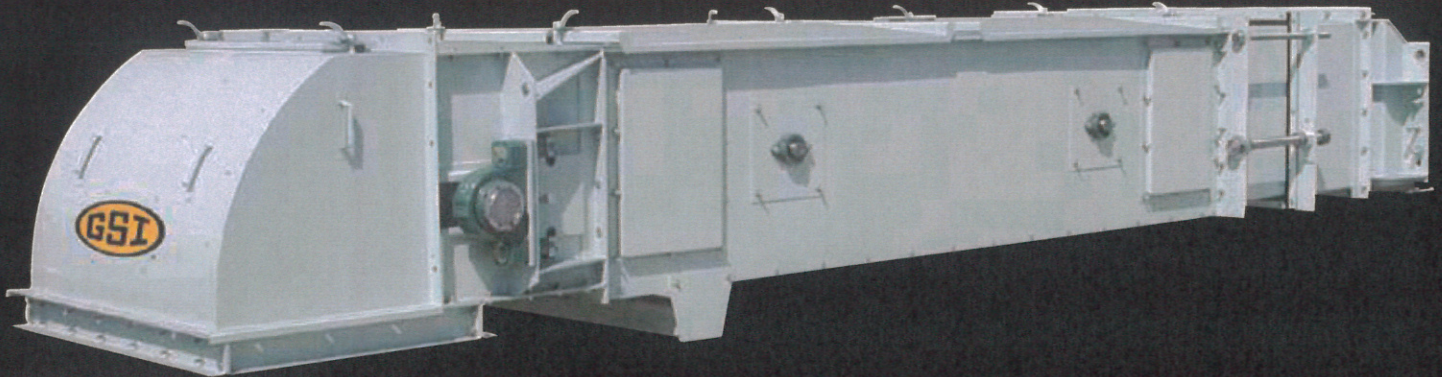
Pulley size	48-400	48-500	48-500	48-600
BPH	40000	50000	50000	60000
CFH	50000	62500	62500	75000
MTH	1020	1267	1267	1520
A	73"	73"	76"	76"
B	72"	72"	84"	84"
C	45"	45"	44"	44"
D	14"	14"	16"	16"
E	60"	60"	72"	72"
F	58.5"	58.5"	58.5"	58.5"
G	60"	60"	60"	60"
H	120"	120"	123"	123"
I	118.5"	118.5"	118.5"	118.5"
J	23"	23"	23"	23"
K	24"	24"	24"	24"
L	60"	60"	72"	72"
M	69"	69"	81"	81"
N	28"	28"	28"	28"
O	52"	52"	64"	64"
P	41"	41"	51"	51"
S	62"	62"	62"	62"

Three Row Bucket Elevators
Dimensions - mm

Pulley size	1219	1219	1219	1219
BPH	40000	50000	50000	60000
CFH	50000	62500	62500	75000
MTH	1020	1267	1267	1520
A	1854	1854	1930	1930
B	1829	1829	2134	2134
C	1143	1143	1118	1118
D	356	356	406	406
E	1524	1524	1829	1829
F	1486	1486	1486	1486
G	1524	1524	1524	1524
H	3048	3048	3124	3124
I	3010	3010	3010	3010
J	584	584	584	584
K	610	610	610	610
L	1524	1524	1829	1829
M	1753	1753	2057	2057
N	711	711	711	711
O	1321	1321	1626	1626
P	1041	1041	1295	1295
S	1575	1575	1575	1575



ENCLOSED BELT CONVEYORS



HEAD SECTION...

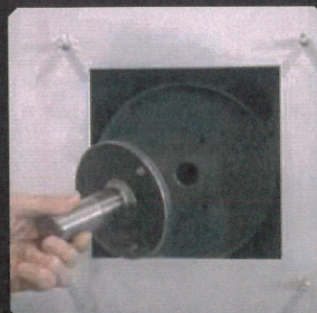
- 16" (406.4mm) diameter slide lagged pulley, XT Bushing and hubs - 2" (50.8mm) wider than belt.
- 24" (609.6mm) diameter slide lagged pulley with 10" (254mm) diameter snubber pulley on longer lengths of conveyors XT bushing and hubs - 2" (50.8mm) wider than belt.
- 10 ga. (3.41mm) reinforced housing.
- 12 ga. (2.65mm) slide-off hood, 1/4" (6.35mm) urethane lined front radius, door for plug switch in side of hood.
- Shafting of 1045 turned ground and polished steel.
- Dodge Imperial 2000 series pillow block bearings with triple lip Trident seal, adapter lock collar and replaceable bearing insert, jack screws with shims for belt alignment.



A re-lagging door on both sides of the head allows for easy removal and installation of the slide lags without breaking the belt.

TAIL SECTION...

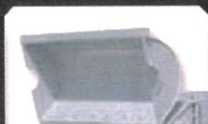
- 14" (355.6mm) spiral wing type pulley with reloading rubber flippers at each end.
- Plow assembly between belts to move spilled material to side reloaders. Adjustable with replaceable skirting.
- 18" (457.2mm), 24" (609.6mm), 36" (914.4mm) and 48" (1219.2mm) manual take-up with acme threads on take-up screws.
- Dodge Imperial 2000 series pillow block bearings with triple lip Trident seal, adapter lock collar and replaceable bearing insert, jack screws with shims for belt alignment.
- Shafting of 1045 turned ground and polished steel.
- 3/16" (4.76mm) thick take-up housing.
- Quick-detach or swing-up tail shroud for access to pulley (see below).



INTERMEDIATE SECTION...

- Anti-static UHMW bottom liners, 1/4" (6.35mm) thick, bolted in slots to allow for thermal expansion.
- 10'-0" (3.05m) Intermediate sections with 5'-0" (1.52m) clamp-on covers.
- 45° Idler Rollers on 5'-0" (1.52m) centers with 1-3/8" dia. removable stub shafts, shouldered to 1-1/4" (31.75mm) dia. for idler roller alignment.
- Dodge 1-1/4" (31.75mm) dia. 2 bolt SC ball bearings, 207 series.
- 12 ga. (2.65mm) housing, 26" (660.4mm) tall with 2" (50.8mm) flange joints.
- Inspection doors at intermediate section next to head and tail section.

QUICK DETACH TAIL COVER



LOADER AND BELT

- Urethane lined loader (sides and rear), skirted, with matching spout angle frame.
- Pivoting UHMW skirts with stops on the conveyor with multiple inlets.
- Inspection door at the front of the loader.
- Flexco splice, 140EE, belt pre-punched at both ends.
- SOR-SC-FR rubber belting with tail reloading rubber flippers at splice.
- Full width tubular torque arm restraint.

OPTIONS

- 1/2" (12.7mm) UHMW Bottom Liner
- Heavy Idler Assemblies
- Low Profile Heads
- Low Profile Loaders
- Clean-out Inlets
- Ceramic Tile and other liner options

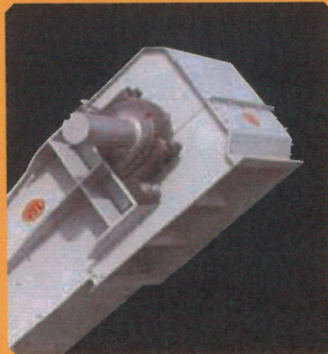
HI-FLIGHT CONVEYORS

GSI manufactures a complete line of Hi-Flight conveyors designed and engineered to minimize the length of delivery time. Hi-Flights are available in 12" (304.8mm), 14" (355.6mm), 20" (508mm), 27" (685.8mm), and 39" (990.6mm) sizes. These conveyors feature an extra heavy-duty construction and ease of access to all vital hardware. All GSI conveyors are highly corrosion resistant and come standard with powder coat finish for lasting durability and superior appearance.



TAIL SECTION...

- Externally mounted pillow block bearings are standard on all sizes.
- Heavy duty chain tension take-up system utilizing corrosion resistant acme threaded screws.
- Flame cut hardened steel sprockets. Split hubs available.
- Maintenance friendly, slit housings to allow removal of the shaft, sprocket, and bearings as an assembly.
- 10 gauge (3.41mm) housing on 12" (304.8mm) and 14" (355.6mm) conveyors, 7 gauge (4.55mm) on 20" (508mm) and 27" (685.8mm) conveyors, 1/4" plate on 39" (990.6mm) conveyors.
- Tail shafts are turned ground and polished.
- Machined 1/4" (6.35mm) thick UHMW shaft seals.



HEAD SECTION...

- Externally mounted pillow block bearings are standard on all sizes.
- Flame cut hardened steel sprockets. Split hubs available.
- Maintenance friendly slit housings to allow removal of the shaft, sprocket, and bearings as an assembly.
- 10 gauge (3.41mm) housing on 12" (304.8mm) and 14" (355.6mm) conveyors, 7 gauge (4.55mm) on 20" (508mm) and 27" (685.8mm) conveyors, 1/4" plate on 39" (990.6mm) conveyors.
- Head shafts are turned ground and polished.
- Machined 1/4" (6.35mm) thick UHMW shaft seals.

TROUGH SECTION FEATURES...

- Dust and weather tight, heavy gauge, flat covers on head, tail and intermediate trough.
- Bolted removable bottom construction.
- Standard 10 gauge (3.41mm) intermediate trough sides (7 gauge sides on 39" conveyors).
- Trough section are fixture assembled for accurate alignment and ease of installation.
- Trough section are flanged with structural angle to provide rigidity and accurate alignment.
- Standard roller chain engineered for each specific conveyor to maximize working load and expected life.
- 6" welded steel chain used in 27" and 39" tall conveyors.
- UHMW flights prevent steel to steel contact.
- Center pan returns are standard in trough section with rail returns being optional in horizontal section only.
- Inlet options include bypass inlets, bypass dump hoppers, and standard flanged inlets.
- Abrasion resistant steel wear liners with recessed fasteners for removal or replacement.

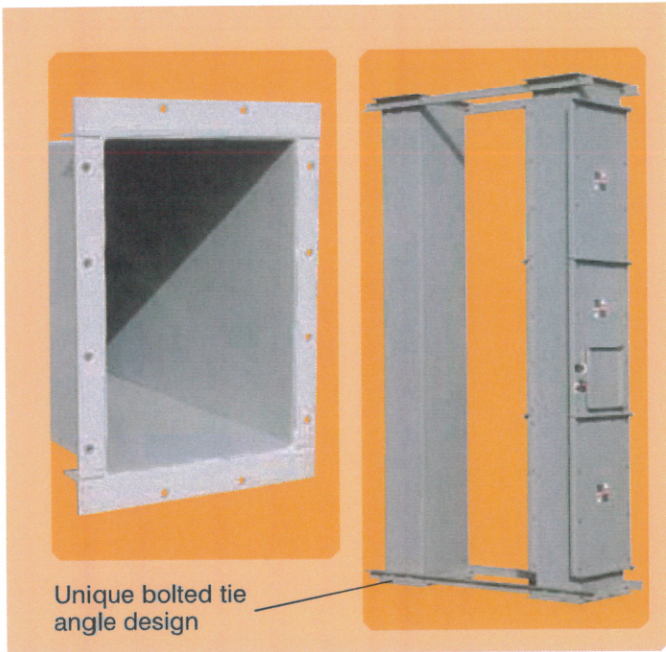
TRUNKING

- Powder coated 12 gauge (2.65mm) steel construction and heavy-duty 10 gauge (3.41mm) steel with continuous butt weld seams to reduce corrosion from moisture and dust accumulation.
- Galvanized 14 gauge (1.9mm) steel bolted construction.
- Fixture welded, structural angle iron flanges are continuously welded on the outside and stitch welded on the inside.
- Maintenance friendly 10' (3048mm) inspection section with 9' (2743.2mm) long opening at both front and back. Front and back panels can be removed in 3' (914.4mm) increments. The inspection door can be located in 6 different locations for ultimate flexibility.
- Unique bolted tie angle design provides rigidity, squareness to trunking and is independent of flange bolts.
- Durable, SOFR (static conductive, oil resistant & fire retardant) rubber belting.

OTHER BUCKET ELEVATOR OPTIONS:

- 12 gauge (2.65mm) trunk construction.
- 10 gauge (3.41mm) trunk construction on 36" (914.4mm) and larger models only.
- 1/4" (6.35mm) expanded metal back urethane head housing and hood liners.
- Head service and distributor service platforms.
- Ladder and safety cage with rest platforms.
- Winged self cleaning boot pulley.
- Flared boot hopper.
- Standard boot hopper.
- Down leg boot inlet hopper (field installation required).
- Urethane lined head discharge transitions.
- Guy cable brackets.
- Belt alignment and speed monitors.
- Trunking pressure relief vents.
- Additional 1/4" (6.35mm) expanded metal back urethane head housing and hood liners.
- Bolt on shovel pocket (field installed).
- Gravity take-ups with weight box available on 36" (914.4mm) - 48" (1219.2mm) pulley models (weights not provided).

SEE PAGE 10 FOR SPECIFICATIONS



Unique bolted tie angle design



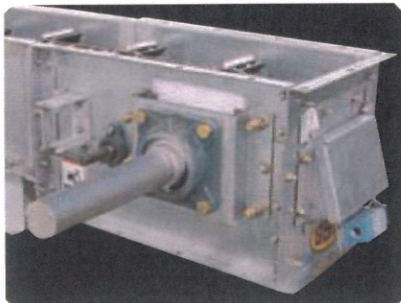
TALL EN-MASSE CONVEYORS 12" (304.8mm), 14" (355.6mm), & 20" (508mm)

GSI 12" (304.8mm), 14" (355.6mm), and 20" (508mm) En-Masse conveyors offer many features to maximize performance and reduce operation costs. For larger grain capacity requirements, GSI offers a 26" (660.4mm) and 32" (812.8mm) En-Masse Conveyor. These conveyors feature an extra heavy-duty construction, easy access to all vital hardware and a powder coated finish for lasting durability. All of GSI's conveyors are highly corrosion resistant and come standard with a powder coat finish for lasting durability and superior appearance.



TAIL SECTION...

- Extended mount flange bearings on 12" (304.8) and 14" (355.6mm) tall conveyors. External mount pillow block bearings on 20" (508mm) tall conveyors.
- Heavy duty chain tension take-up system utilizing corrosion resistant acme threaded screws.
- Flame cut hardened steel sprockets. Split hubs available
- Maintenance friendly, bolted access to allow removal of the shaft, sprocket, and bearings as an assembly.
- 10 gauge (3.41mm) housing on 12" (304.8mm) and 14" (355.6mm) conveyors, 7 gauge (4.55mm) on 20" (508mm) conveyors.
- Tail shafts are turned ground and polished.



HEAD SECTION...

- Extended mount flange bearings on 12" (304.8mm) and 14" (355.6mm) tall conveyors. External mount pillow block bearings on 20" (508mm) tall conveyors.
- Machined 1/4" (6.35mm) thick UHMW shaft seals.
- Flame cut hardened steel sprockets. Split hubs available
- Maintenance friendly, bolted access to allow removal of the shaft, sprocket, and bearings as an assembly.
- 10 gauge (3.41mm) housing on 12" (304.8mm) and 14" (355.6mm) conveyors, 7 gauge (4.55mm) on 20" (508mm) conveyors.
- Head shafts are turned ground and polished.

TROUGH SECTION FEATURES...

- Dust and weather tight, heavy gauge, peaked covers on head, tail and intermediate trough.
- Abrasion resistant steel wear liners with recessed fasteners for removal or replacement.
- Bolted removable bottom construction.
- Standard 10 gauge (3.41mm) intermediate trough sides.
- Trough sections are fixture assembled for accurate alignment and ease of installation.
- Trough sections are flanged with structural angle to provide rigidity and accurate alignment.
- Standard roller chain engineered for each specific conveyor to maximize working load and expected life.
- UHMW flights prevent steel to steel contact.
- UHMW return rollers with shafts bolted to trough for easy maintenance and replacement are standard on 12" (304.8mm) to 14" (355.6mm) tall conveyors.
- Rail returns are standard on all 20" (508mm) tall conveyors. Rails are lined with 1/4" (6.35mm) abrasion resistant steel and tapered end to end to minimize flight wear and maximize cleaning. Rails overlap at flange connections for smooth operation.

26" (660.4mm) & 32" (812.8mm)

En-Masse Conveyor standard features and options include...

- 6" (152.4mm) pitch welded steel chain with v-cup flight attachments and factory mounted paddles.
- Abrasion resistant steel wear liners with recessed fasteners for removal or replacement.
- Slack chain switch.
- Hinged head relief door with limit switch standard.
- Head and tail housing split for shaft and sprocket removal.
- Standard split sprockets



ELECTRONIC DISTRIBUTORS

The GSI electronic distributor is the most advanced and user friendly distributor controller on the market. With an industry leading touch screen display, moving spout locations is made easy. With a 6" color screen, one can visually determine the spout position with just a glance. The controller is powered by a PLC with the ability to easily customize text and lock out specific spout numbers. The system uses cutting edge electronic components and an efficient and compact drive configuration that assures high reliability in even the toughest conditions.

When using the GSI electronic distributor controller, one can easily integrate the PLC control into a larger grain network. A user can control the desired spout position from another PLC while the GSI system is responsible for moving and reporting the spout position. There are multiple protocol options for integrating an external controller, including Ethernet and serial.

These features provide the end user with a reliable and easy-to-operate unit for any GSI brand distributor, new or existing.

FEATURES:

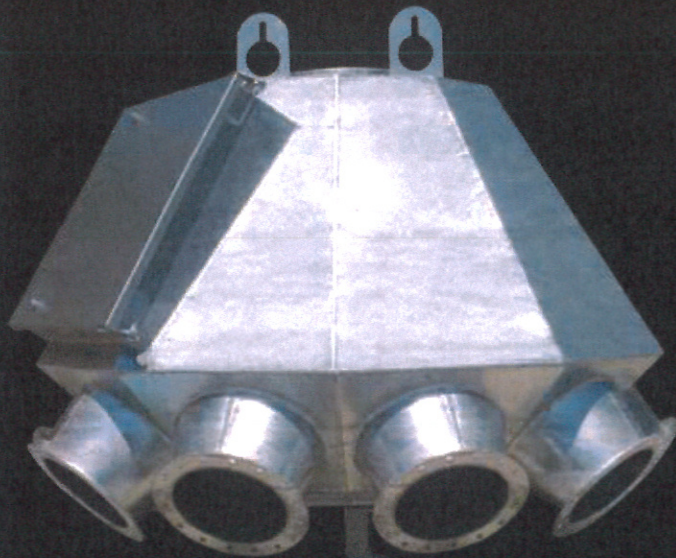
- Intuitive controls and menus.
- Multiple protocols available.
- Industry leading HMI touch screen controls.
- Ability to interface with main farm/elevator network.
- Exceptional graphics with the ability to customize text.
- Weather proof controls (NEMA 4 rated).
- UL and UL-C listed for use in US and Canada.
- Direct drive configuration.
- High torque, 400:1 reduction with 1/2 hp 3-phase motor.
- Rotary position sensor for accurate positioning.
- Retrofits to any existing GSI distributor.



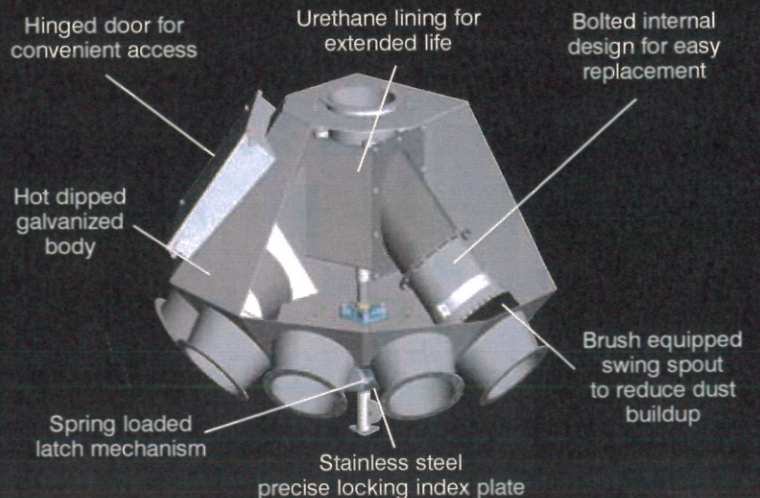
DISTRIBUTORS

DISTRIBUTOR FEATURES:

- 3/16" and 12 gauge body parts. Outlets flanged.
- Located under the distributor is the positive locking stainless steel index plate which offers protection from dust and harsh weather conditions.
- Large throat on internal swing spout, bottom lined with 1/4" urethane for extended wear.
- Swing spout turns on a 1 1/2" ball bearing, heavy-duty shaft connects to cable control.



GSI's line of Distributors are galvanized for long life and minimum maintenance and come in many sizes and models from which to choose.



SEE PAGE 11 FOR SPECIFICATIONS

PAGE 3

BOOTS



GSI BUCKET ELEVATOR BOOTS

Our elevator boots use a structural iron frame construction for solid support throughout the boot. All stiffeners and frames are powder coat finished before assembly for maximum corrosion resistance.

BOOT SECTIONS INCLUDE...

- Externally mounted pillow block bearings.
- Belt tension take-up screws utilizing corrosion resistant acme threaded rod.
- Machined, full length UHMW shaft seal at take-up plate bearing surface.
- Heavy-duty, crown faced, double disc drum pulley.
- Easy access cleanout doors on each end.
- Removable panel at boot top, between trunks, can be adapted to dust collection equipment.
- Standard boot construction of heavy gauge steel and bolted structural angle iron frame with vertical stiffeners.



STANDARD BUCKETS

Buckets are constructed of a durable non-sparking polyethylene. Optional steel, nylon or urethane buckets are also available.



Standard belt tension take-up assembly utilizes corrosion resistant ACME threaded rods.



An inspection window is located on both sides of the boot.

Hinged access door on 42" (1066.8mm) & 48" (1219.2mm) only.

Optional gravity take-up available on 36" (914.4mm), 42" (1066.8mm), & 48" (1219.2mm) elevators only



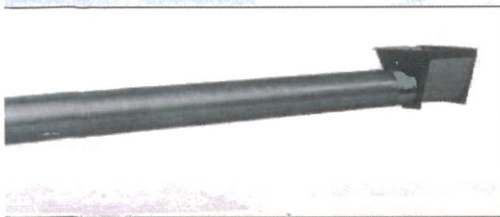
SEE PAGE 10 FOR SPECIFICATIONS

HONEYVILLE DISTRIBUTING AUGERS

Features and Specifications

- Top design motor mounts with NEMA frame sizes 143, 145, 182, 184, 213, and 215 motor plates.
- All Galvanized construction, G-90 tubing, hot dip galvanized weldments.
- Stamped steel or cast steel drive sheaves and belt guards.
- Horizontal and incline clamp on hoppers with optional lay on covers.
- Intermediate discharge with slide gate and outlet transitions.
- All components clamp together onto auger tubing eliminating the need for welding.
- Totally enclosed belt guard assembly.

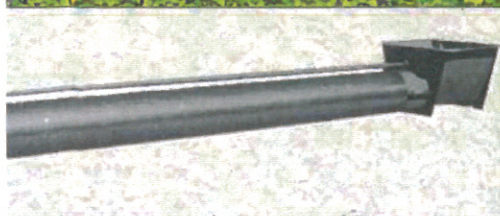
Model Size	Capacity BPH	Tube Diameter	Tube Material	Screw Diameter	Flight Material	Shaft Size	Bearing Specifications
4"	380	4"	16 ga.	3-1/2"	13 ga.	5/8"	5/8" 3 bolt bearings
6"	900	6"	14 ga.	5-3/16"	12 ga.	1"	1" 4 bolt bearings
8"	2,000	8"	14 ga.	7-1/8"	11 ga.	1-1/4"	1-1/4" 4 bolt bearings



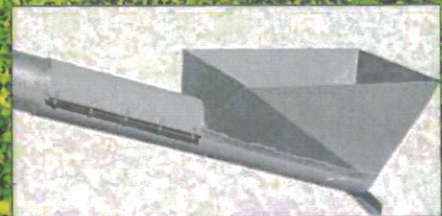
shown with standard features including motor mount and belt-guard.



Model 67A— 6" distributing auger shown with 18" x 18" hopper and optional Intermediate discharge with slide gate and outlet transition.



shown with optional thru-hopper slide gate control assembly.



Model 70A—6" Incline auger with 18" x 24" hopper.

Honeyville Metal offers a wide variety of tube type conveying augers. As mentioned in this brochure, they are available in 4" to 10" diameters. We also offer a tube type auger in 13", 15" and 17" for special applications on your farm or mill operation. Our tube type augers are just one component in our grain handling product line. This line includes bucket elevators, distributors, flat and incline drag conveyors, u-trough augers, 2 and 4 leg support towers, various catwalk options, truss kits as well as all the components that go with these products. We also offer dust collection systems and components for the mill operation. Check out our website listed below for our complete product line.



Gently Moving Nature's Grains

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Honeyville

Tube Augers



Galvanized For Long Life and Low Maintenance

4" to 10" Diameters with Capacities to 3,000 BPH

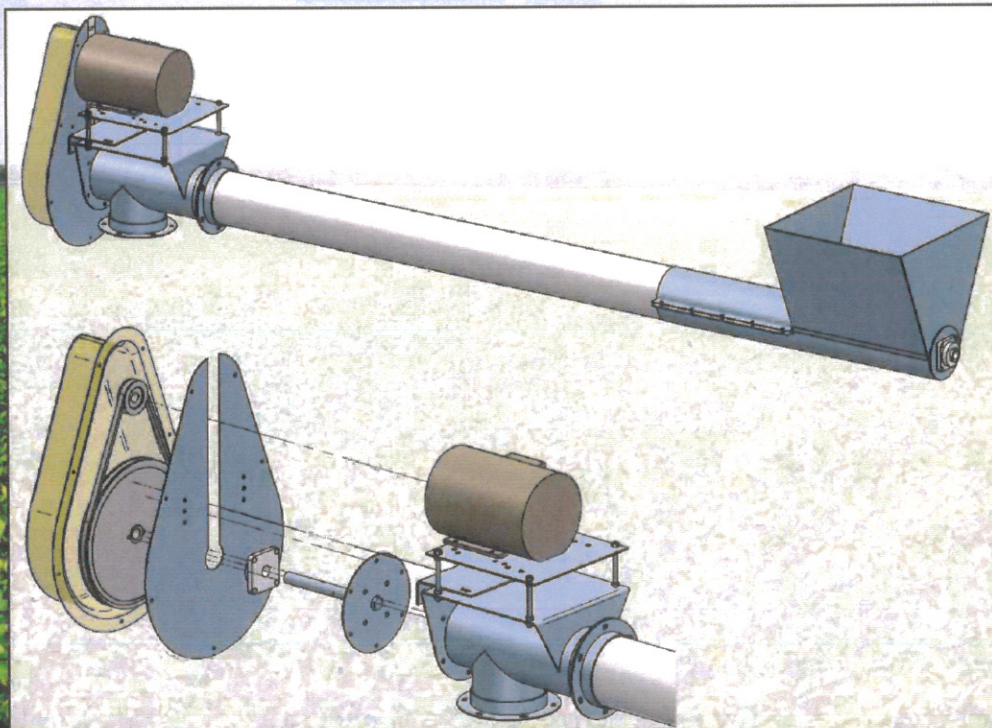


HONEYVILLE BIN UNLOADING AUGERS

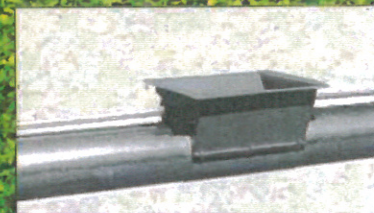
Features and Specifications

- Auger power heads and screw portion may be moved from bin to bin by removing flange bolts.
- Top design motor mounts with NEMA frame sizes 143, 145, 182, 184, 213, and 215 motor plates.
- All Galvanized construction, G-90 tubing, hot dip galvanized weldments.
- Optional 25° incline transition with shaft mounted u-joint for connecting screws.
- This option elevates the discharge head to easily feed into a transport auger.
- Primary bin well hopper with pivot anchor for bin sweep.
- Optional intermediate thru-hopper for larger bins.
- Totally enclosed belt guard assembly.

Model Number	Capacity BPH	Hopper Size	Tube Diameter	Tube Material	Screw Diameter	Flight Material	Shaft Size	Bearing Specifications
UL6	900	12" Sq x 10-1/2" H	6"	14 ga.	5-3/16"	12 ga.	1"	1" 4 bolt bearings
UL8	2,000	16" Sq x 12-3/4" H	8"	14 ga.	7-1/8"	11 ga.	1-1/4"	1-1/4" 4 bolt bearings
UL10	3,000	20" Sq x 15" H	10"	11 ga.	9"	11 ga.	1-1/2"	1-1/2" 4 bolt bearings



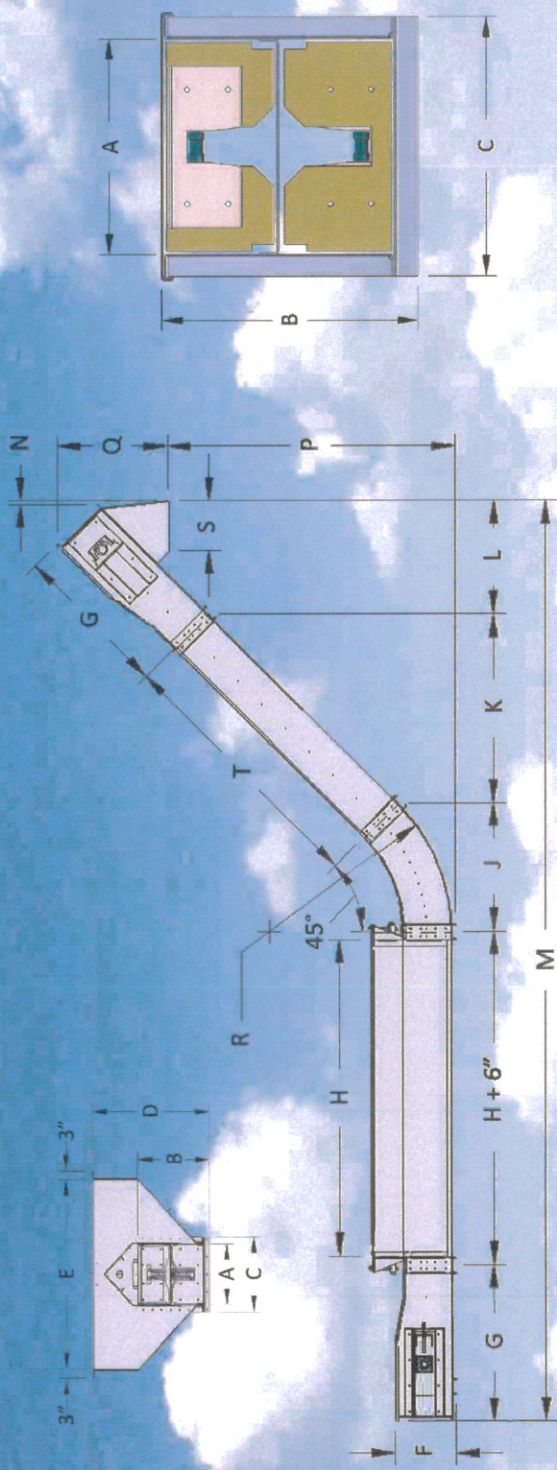
8" Bin Unloading Auger including hopper, overh



Unloading Auger sho installed with slic



CENTL-FLOW INCLINE DRAG CONVEYORS



Each UHMW paddle bolts onto a large, formed steel backer plate that is welded onto the chain.

Incline Drag Conveyor Specifications

Model	Capacity Range	Chain	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	Head & Tail	Bottom	Sides	Cover
HD-F13IC	2,500 - 4,500 BPH	81XH	13	18-3/4	16-1/4	30	48	22	55-7/8	114	46-1/8	59-3/8	40-3/4	322-1/8	1-1/2	94-1/2	39-5/8	65	18	84	10 Ga.	10 Ga.	12 Ga.	14 Ga.
HD-F16IC	5,000 - 7,000 BPH	81XH	16	18-3/4	19-1/4	30	48	22	55-7/8	114	46-1/8	67-7/8	40-3/4	330-5/8	1-1/2	103	39-5/8	65	18	96	10 Ga.	10 Ga.	12 Ga.	14 Ga.
HD-F22IC	7,500 - 11,000 BPH	81XH	22	21-3/4	25-1/4	36	48	25-1/2	57-1/4	114	46-1/8	76-3/8	41-7/8	341-3/4	1-1/2	112-5/8	41-7/8	65	18	108	10 Ga.	10 Ga.	12 Ga.	14 Ga.

*All dimensions shown above are in inches



Screw take-up assembly on tail section and outboard mounted flange bearings with shaft seals



Smooth, self-cleaning slopes inside pit hopper. Quick and easy flow control adjustment on each end of the hopper.



Long radius, high flow bend sections with optional bottom AR steel liners.

Features

- All G-90 galvanized, bolted construction, pre-assembled head, bend, tail and individual trough sections
- Conveyor sections throughout have formed top and bottom lips with formed bolt-on channels at adjoining points on the sides and bottom
- Bolt-in AR steel liner options for the bottom for extended conveyor life
- Drive over pit hopper, 4' or 5' wide, available in varying lengths
- Pit grates: 1/2" x 3" flat bars on 4' wide hoppers, 1/2" x 4" flat bars on 5' wide hoppers
- Heavy duty 81XH steel chain with welded steel attachments
- Bolt-on 3/8" thick UHMW paddles
- Class II Dodge torque-arm type gear reducers installed with fixed pitch v-belt drives
- Long radius, high flow incline bend sections available in 15°, 22.5°, 30°, 37.5° and 45°



Drive-over pit hopper with bar grate provided in 12" wide lift-out sections for easy access



Typical application: Incline Drag Conveyor in a pit, feeding an elevator boot above grade

Gently Moving Nature's Grains

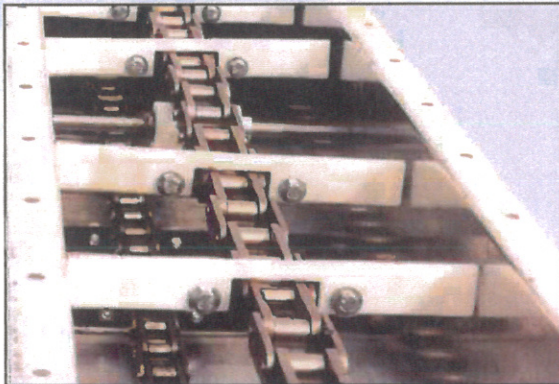
Manufactured by



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Phone (800) 593-8377 • Fax (260) 593-2486
www.honeyvillemetal.com

Features

- All G-90 galvanized, bolted construction with optional bottom and side AR steel liners.
- Conveyor sections throughout have formed top and bottom lips with formed bolt-on channels at adjoining points on the sides and bottom.
- Dust and weather tight construction. Pre-assembled head, tail and individual trough sections.
- Heavy duty steel chains with welded steel attachments and bolt-on 3/8" thick UHMW paddles.
- Four UHMW return chain rollers per 10' section located under the return chain, no steel on steel contact, reduced wear and quiet operation.
- Standard inlet with UHMW lined V-splitter to protect the chain from wear when loading the conveyor.
- Heavy duty head and tail bearings, outboard mounted, with UHMW dust seals on the shaft.
- Class II Dodge torque-arm type gear reducers installed with fixed pitch v-belt drives.



Shaft mounted UHMW return rollers can be replaced without removing the chain.



Flanged bolt-on head discharge transition standard on all conveyors.

Gently Moving Nature's Grains

Manufactured by

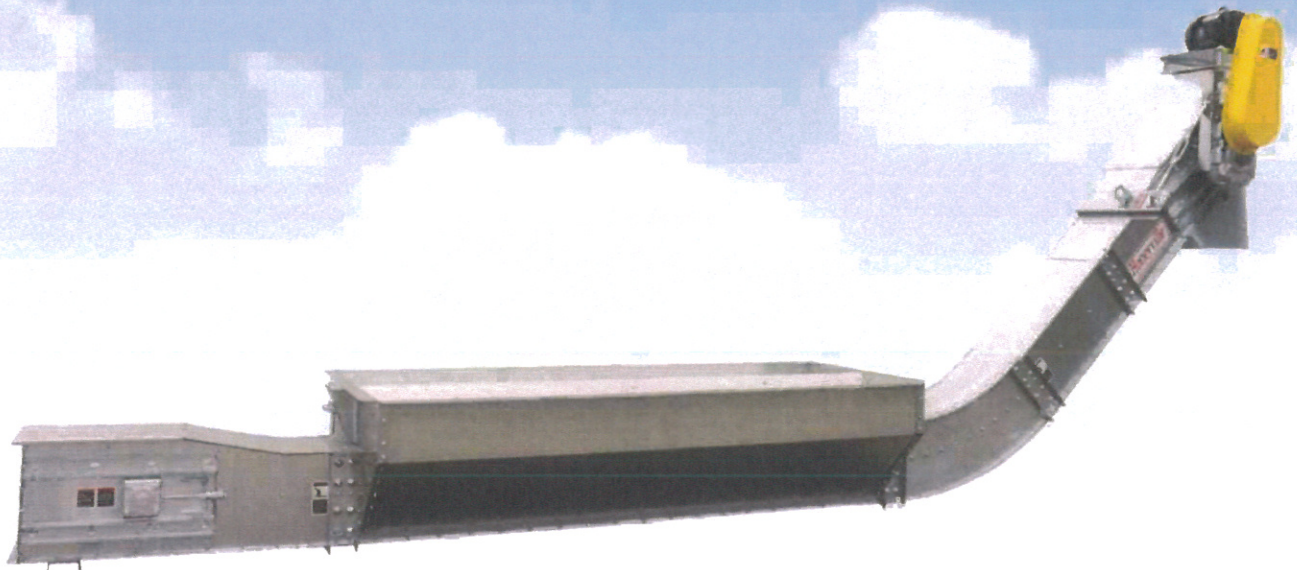


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Honeyville

Incline
Drag Conveyors

GENTL-FLOW



Galvanized For Long Life and Low Maintenance

3 Sizes – Capacities up to 11,000 BPH



Honeyville

**Horizontal
Drag Conveyors**

GENTL-FLOW



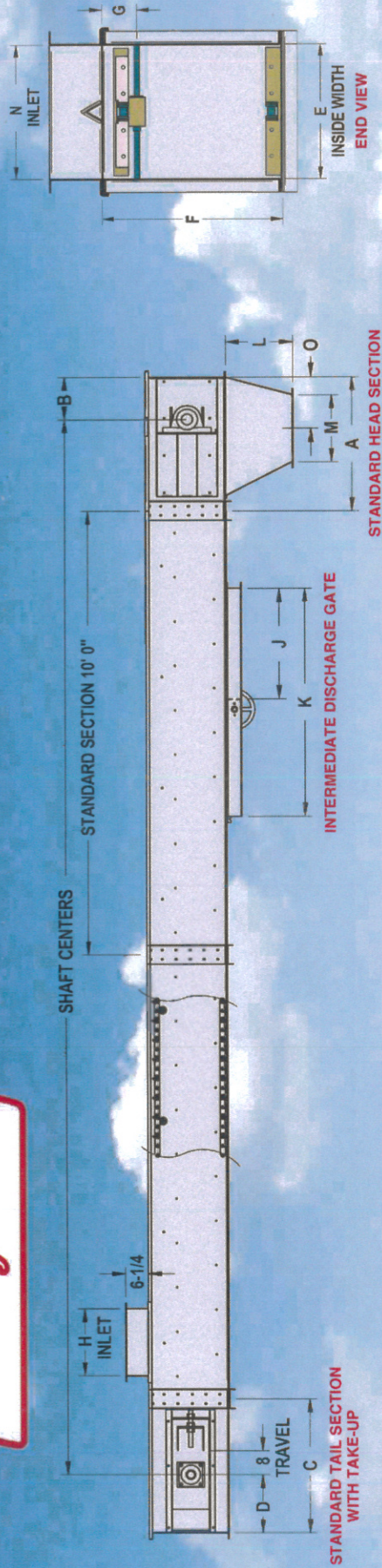
Galvanized For Long Life and Low Maintenance

5 Sizes – Capacities to 26,000 BPH





CENTIL-FLOW DRAG CONVEYORS



Horizontal Drag Conveyor Specifications										Galvanized Material Specifications										
Model	Capacity Range	Chain Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	Head & Tail	Bottom	Sides	Cover
HD-F9	2,000 - 4,500 BPH	81XH	36	8	36	10	9	14	4	14	24	50	15	16	9	12	10 Ga.	10 Ga.	12 Ga.	14 Ga.
HD-F13	5,000 - 9,000 BPH	81XH	36	9-1/2	36	11	13	18	4	16	30	62	18	16	13	12-3/4	10 Ga.	10 Ga.	12 Ga.	14 Ga.
HD-F16	9,500 - 14,500 BPH	81XH	36	11	36	12	16	21	4	18	30	62	18	16	16	12-3/4	10 Ga.	10 Ga.	12 Ga.	14 Ga.
HD-F19	15,000 - 19,500 BPH	81XHH	52	13-1/2	46	14	19	25	5	22	36	74	20	19	19	16	8 Ga.	8 Ga.	10 Ga.	12 Ga.
HD-F22	20,000 - 26,000 BPH	WR124	58	15	46	14	22	27	5	26	42	86	22	22	22	18	8 Ga.	8 Ga.	10 Ga.	12 Ga.

*All dimensions shown above are in inches



Head and tail sections G-90 galvanized steel, all sprockets with taper lock bushings. Class II Dodge torque-arm type gear reducer installed with over-head motor mount and fixed pitch v-belt drives.



Acme screw take-up assembly on tail section, bearings outboard mounted with UHMW dust seals. Standard inlet with UHMW V-splitter over chain to reduce chain wear.



Conveyor trough sections are all G-90 formed galvanized steel with no welding on any exterior panels. Bolted formed channel type trough connections.

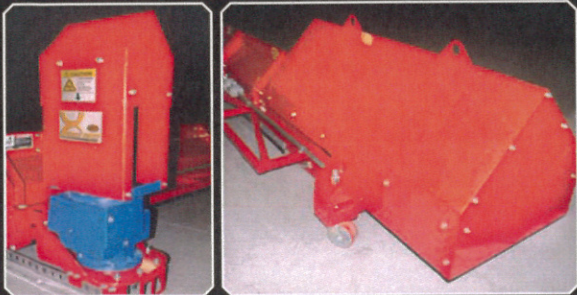


UHMW paddles are bolted onto steel attachments that are welded onto a heavy duty steel chain, factory installed in 10' sections with (4) UHMW return chain rollers.

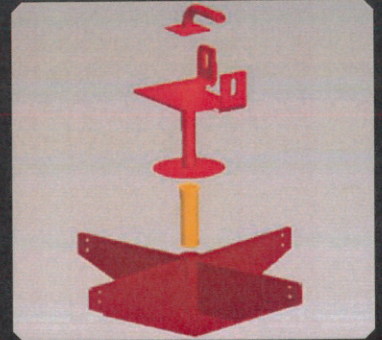
SPECIAL BIN SWEEP

NEW DIRECT DRIVE DESIGN

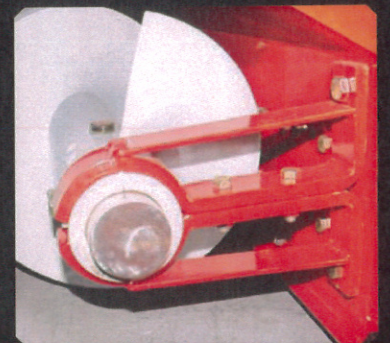
- Auger driven by motor/gearbox combination.
- All motors are explosion proof rated for Class II, Groups F & G environments.
- Auger drive gearbox features heavy-duty tapered roller bearings.
- Gearbox also includes XT Harsh Duty output seal, and is factory filled with food grade lubricant.



HEAVY-DUTY, LEAVE IN PLACE, MOTOR COVERS



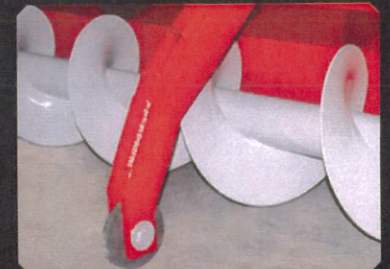
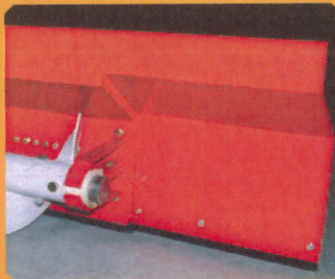
Improved center pivot design incorporates a bronze bushing to offer a non-lubricated center pivot solution.



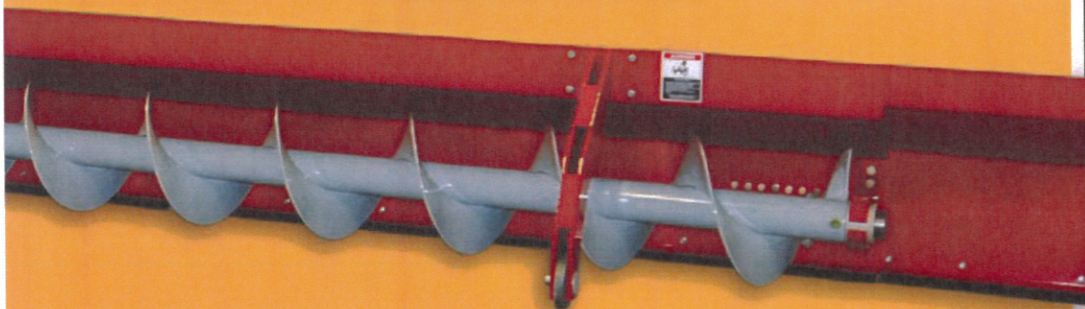
Reinforced Hanger Bearing Brackets

INTEGRATED PLOW AT END OF SWEEP

- Adjustable depending on spacing needed to accommodate GSI inner 2-ring door frames.
- Shear bolt design - safety feature to prevent major damage to the sweep and obstacle in the event of contact.

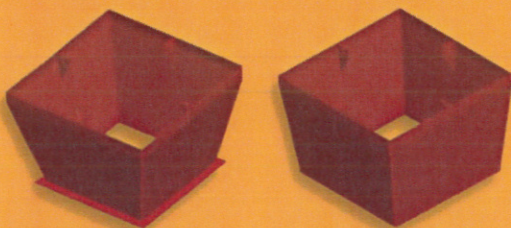


New Front Wheel Strut Design



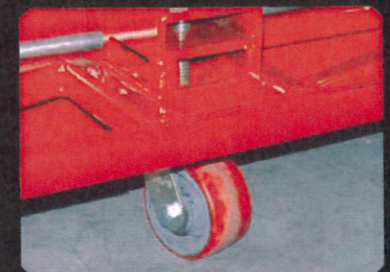
30,000 & 50,000 BU/HR. SUMP DESIGNS

- For optimal performance a distance of 6-10 ft. between intermediate sumps is recommended, depending on product being stored.
- Not intended for tanks with full floors.



NEW BOTTOM SHIELD BRUSH

- Brush stays engaged with bin floor to help sweep the grain away for maximum cleanout.



New Back Shield Castor Design

GSI requires 10-ga. min. plate material laid flush with concrete to cover aeration tunnels. (Plate material not provided by GSI.)

Front and back castors are in line to minimize the number of wheel tracks around the bin.

X-SERIES SWEEP SPECIFICATIONS

Auger Size	Bin Diameter	Track Drive Horsepower	Auger Drive HP 5,000 - 7,000 BPH	Length Pivot to End (no plow)	Min. Length Pivot to End (plow fully retracted)	Max. Length Pivot to End (plow fully extended)
12" AUGER	48'	1/2	15	22' 4"	23' 4"	24' 1"
	54'	1/2	15	25' 4"	26' 4"	27'
	60'	1/2	15	28' 4"	29' 3"	30'
	72'	1/2	15	34' 4"	35' 3"	36'
	75'	1/2	15	35' 4"	36' 4"	37'
	78'	1/2	15	37' 4"	38' 3"	39'
	90'	1/2	20	43' 4"	44' 3"	45'
	105'	1/2	25	50' 4"	51' 3"	52'
135'	1/2	25	65' 4"	66' 4"	67'	

Auger Size	Bin Diameter	Track Drive Horsepower	Auger Drive HP 8,000 - 10,000 BPH	Length Pivot to End	Min. Length Pivot to End (plow fully retracted)	Max. Length Pivot to End (plow fully extended)
16" AUGER	48'	1/2	15	22' 4"	23' 4"	24' 1"
	54'	1/2	15	25' 4"	26' 4"	27'
	60'	1/2	20	28' 4"	29' 3"	30'
	72'	1/2	20	34' 4"	35' 3"	36'
	75'	1/2	20	35' 4"	36' 4"	37'
	78'	1/2	20	37' 4"	38' 3"	39'
	90'	1/2	25	43' 4"	44' 3"	45'
	105'	1/2	30	50' 4"	51' 3"	52'
135'	1/2	30	65' 4"	66' 4"	67'	

Capacities and stated motor horsepowers based on dry, free flowing, granular material.
X-Series Sweep not intended for tanks with full floors.

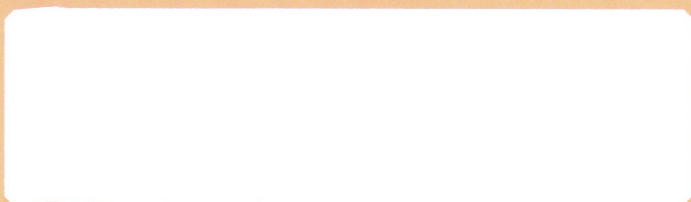


TOTAL VALUE. TOTAL SYSTEMS.

GSI dealers are the most knowledgeable, well trained, and dependable people in the industry. GSI dealers are provided extensive training for proper installation, operation and maintenance of GSI products in a world class learning facility located in Assumption, IL. When you buy GSI, you get a quality product, with the service you would expect from a worldwide leader.



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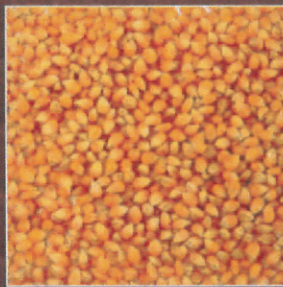
GS-058 JAN/12 Rev. 2

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Totally Enclosed Lower Power Costs Long & Reliable Life Self Cleaning & Reloading



Invest in Efficiency




HI ROLLER[®]
ENCLOSED BELT CONVEYORS

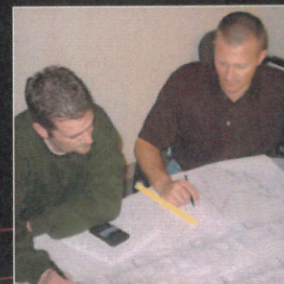


Material handling solutions come in many forms. Unique problems require unique thinking. At Hi Roller Conveyors, we take great pride in being a company that is made up of innovators and problem solvers. As a result, we have grown to be the industry leader in the design and manufacture of enclosed belt conveyors.

How did this happen? As a contractor serving the grain industry in the late 70's, Phil Clark saw the need for a conveyor that would eliminate the emission of explosive grain dust and greatly reduce horsepower and maintenance costs. He also wanted to decrease the need for costly dust collection systems and the costs associated with the operation and upkeep of them. With the goal of providing solutions to those needs, Hi Roller was born. By working closely with our customers, Hi Roller Conveyors has continued to solve problems worldwide.

In addition to our engineering and manufacturing capabilities, Hi Roller also provides exceptional service, which extends well beyond final production. If any problem should occur, we respond quickly and efficiently to ensure that your business keeps running smoothly.





Quality People Proven Experts in Design and Engineering

At Hi Roller Conveyors, its our people that make the difference. The constant collaboration between all departments results in the highest quality enclosed belt conveyors available. Every member of the Hi Roller team knows enclosed belt conveyors. Its what we do! We live or die by our success and put total effort into the successful application of our equipment. If you have a question or experience a problem you can be assured that there are always multiple individuals to help you.

Hi Roller has also discovered an invaluable source of ideas and information from you, the customer. Improvements on the life and maintenance of our equipment are often the result of a joint venture. When possible, we visit our customers facility and adapt our conveyors to existing parameters. Too many manufacturers expect the customer to adapt to the company standard. Not Hi Roller! Our consistent effort to integrate the needs of our customer into the design process has proven beneficial to both parties. This willingness to listen has been the key to developing a strong customer base and has propelled Hi Roller to be the leader in design and manufacture of enclosed belt conveyors.



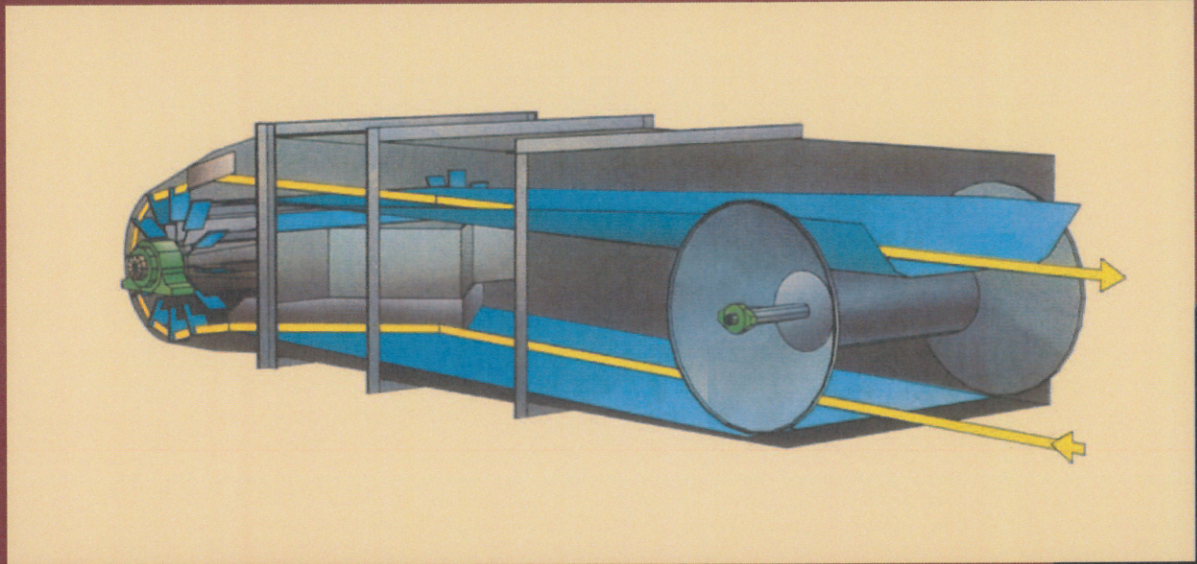


Hi Roller not only adapts equipment to a particular application; we adapt it to an industry. You can find Hi Roller Conveyors loading grain ships in the Gulf of Mexico, conveying minerals at a processing plant in South America, handling absorbent clay products throughout the United States, as well as feeding processing plants throughout the world 24 hours a day, 7 days a week.

Not every Hi Roller Conveyor will work with every product. Products have various characteristics. This may be abrasiveness, flow ability, size, moisture, temperature, density, etc. Hi Roller has different models for different situations. One thing the various models do have in common is the ability to reload dust and spilled product. Also, all conveyors are designed with bearings isolated from the internal atmosphere of the conveyor. These design parameters decrease maintenance and operational costs as well as increase the life of the conveyor.

Hi Roller also offers many complementary components such as an integrated support truss and walkway. Intermediate discharges both stationary and moveable; can be incorporated in all models. Low profile or two-way discharges can be built in to accommodate space constraints. Reversible conveyors are designed to discharge and reload material in either direction.

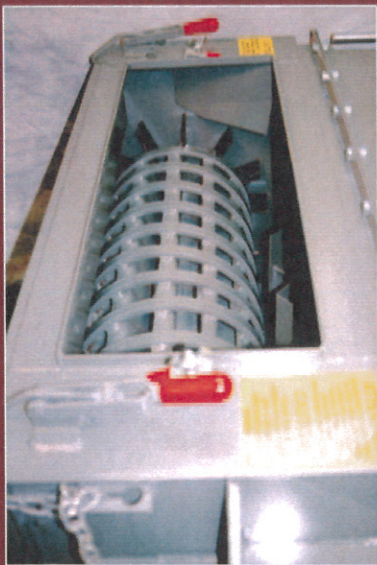




Hi Roller Enclosed Belt Conveyors are designed for the safe, gentle and efficient handling of dry, bulk materials. This unique, totally enclosed belt conveyor contains dust and spilled material and automatically reloads that material back on to the belt.

The yellow arrow shows the flow of dust and spilled material back to the tail section where it is directed into reloading vanes, then thrown and deflected back on to the top belt.

Hi Roller Belt Conveyors are heavy duty, low maintenance, safe, gentle and efficient. Hi Roller uses unique idlers which allow all bearings to be isolated from internal dust and contaminants. Internally, the troughing belt gently conveys bulk materials to the discharge point. The returning belt slides over an antistatic return liner and continually wipes the bottom enclosure clean of any dust or spilled material. The spiral winged tail pulley provides constant belt contact for extended belt life. The patented reloading system includes a rugged plow, reloading flippers and a stationary deflector. The absence of this feature can cause product build up, plugging, costly wear and downtime.





Quality Products The Problem Solver



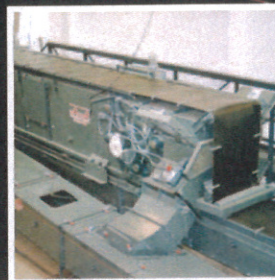
Communication and open dialogue are key to any successful business relationship. We know enclosed belt conveyors, however, you know your product. Success is a team effort.

We look forward to hearing from you soon. We welcome your inquiries and also encourage you to visit our web site at www.hiroller.com. There you can download valuable design and installation tools, link to our suppliers, download product literature, or view installation photographs. Hi Roller can also provide you with AutoCAD blocks for use in planning your next project.



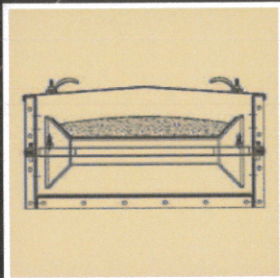
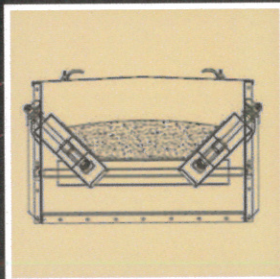
Consignor

The Consignor is the result of a special request from a client. It is a totally enclosed moveable tripper that can be incorporated in to any of our enclosed belt conveyor designs. The unit is totally enclosed and dust tight, and any carryover is automatically reloaded back on to the carrying surface of the belt. The Consignor is fully automated and remote controlled. As this product shows, we are constantly working with our customers to develop new products to suit your needs.



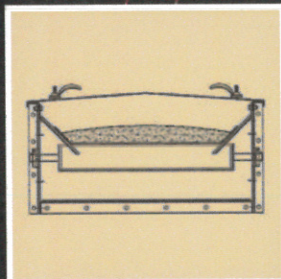
Hi Life Conveyor

The Hi Life utilizes possibly the heaviest, longest life, most reliable conveyor idler available. Resembling a conventional conveyor idler, the Hi Life idler is much thicker, the bearings are much larger and there are no brackets or bearings exposed to the internal atmosphere of the conveyor housing.



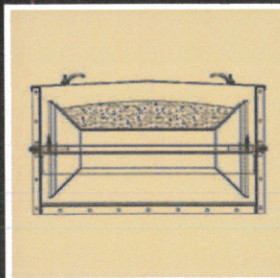
Mini Roller Conveyor

Available in belt widths from 16" to 36", the Mini Roller includes all the benefits of the Hi Roller in a lower profile design.



Lo Roller Conveyor

Available in belt widths from 16" to 36", the Lo Roller utilizes a flat carrying idler to support the loaded weight of the belt and relies on the UHMW side slides to form a trough for the belt. This design provides continuous belt support and creates a seal at the edges.



Hi Roller Conveyor

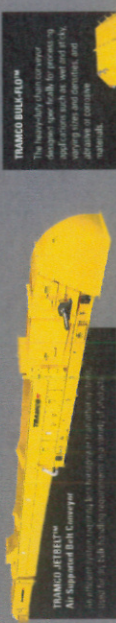
Available in belt widths from 18" to 54", this is our original and most popular model. The unique bell-shaped carrying idler provides the trough for the belt and utilizes two external bearings as opposed to the six internal bearings associated with a conventional idler. The bell-shaped idler also has built-in self-aligning characteristics for both single and bidirectional conveyors.



5100 West 12th Street
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Fax: 605 332 1107
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Website: www.hiroller.com

TRAMCO... THE WORLD'S MOST COMPLETE LINE OF CHAIN AND ENCLOSED BELT CONVEYORS.

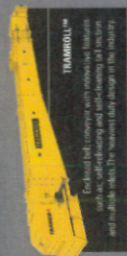
TRAMCO conveyors and elevators, "The Quiet Ones" have become the standard of the industry. They are designed, engineered and built for "quiet work and long life." All models feature comprehensive lights for lower noise levels, minimal maintenance and downtime.



TRAMCO JIBBUTT™
An enclosed belt conveyor designed for loading and unloading trucks, rail cars, and other heavy equipment.



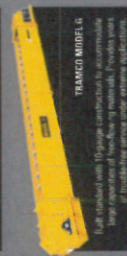
TRAMCO BULK-LO™
The heavy-duty chain conveyor designed for bulk to process applications such as sand and gravel, quarry stone and demolition, and other aggregate materials.



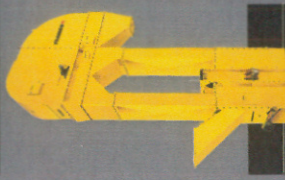
TRAMROLL™
Endless belt conveyor with innovative features such as self-cleaning and self-aligning rollers and multiple shafts for maximum design of the industry.



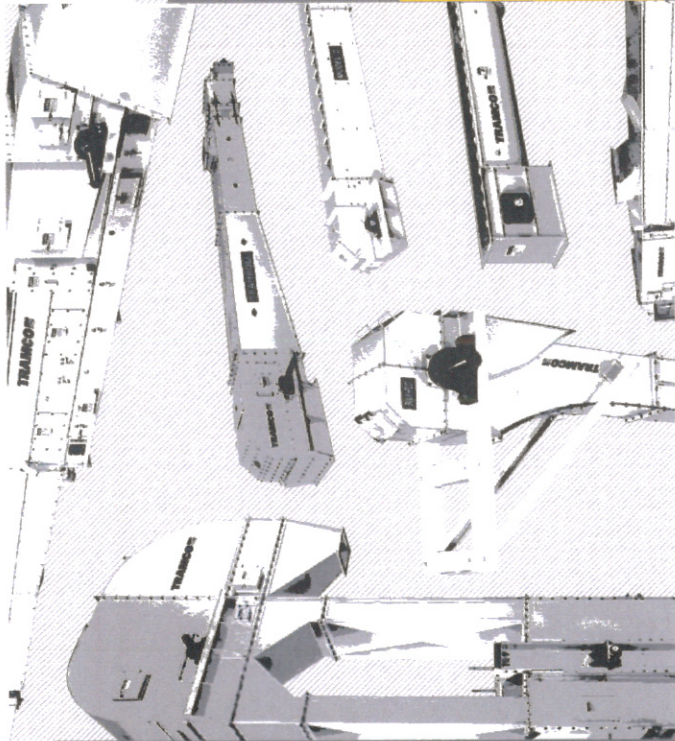
TRAMCO MODEL 80
Designed for reliable loading and unloading with a patented trough for handling soft sticky materials that are easily combined or broken.



TRAMCO MODEL 16
Built standard with 16-gauge construction for government larger capacities of low-flow or materials. Provides more of trouble-free service under extreme applications.



TRAMCO BUCKET ELEVATOR
"The Work Horse"
Complete Enclosed design and built for long life. New and heavy-duty with built-in medium size bins. Built-in for the toughest environments.



A unique combination of design, engineering, proper component selection, manufacturing, and service after the sale makes TRAMCO Conveyors the first choice for considering and supply in bulk material handling situations. TRAMCO delivers products for various industries such as chemical, coal, food and grain, mining, plastic, pulp, rubber and paper or solid waste and recycling. Buying TRAMCO ensures expertise, knowledge, manufacturing know-how, and the comfort that comes with every TRAMCO conveyor.

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The Highest Performance at the Best Value!

TRAMROLL™ Enclosed Belt Conveyor

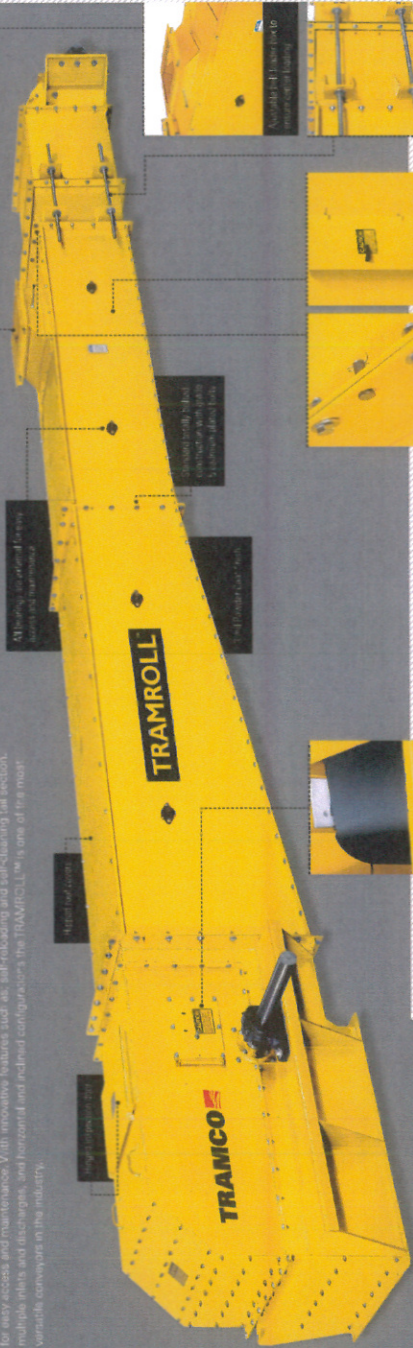


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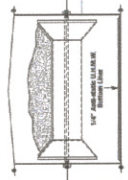
BUILT TO HANDLE THE TOUGHEST JOBS.

The TRAMROLL™ Enclosed Belt Conveyor offers a large selection of standard and innovative features that sets it apart from other conveyors. Standard features include: dust and weather tight enclosed housing to protect the material being moved, improve environmental safety and reduce housekeeping. The TRAMROLL™ also features hinged roof covers, plus a proven design allowing extra clearances between belt, rollers, pulleys and housing for easy access and maintenance. With innovative features such as: self-reloading and self-cleaning tail section, multiple inlets and discharges, and horizontal and inclined configurations the TRAMROLL™ is one of the most versatile conveyors in the industry.

The TRAMROLL™ vulcanized components that are pig welded for interchangeability and are checked throughout by the TRAMCO 100% inspection policy. Our "total quality process" is further proof that you can count on years of trouble-free operation from the TRAMROLL™ Enclosed Belt Conveyor.



TRAMROLL™



*Note: Covers have been removed for illustrative purposes only. Do not operate conveyor unless all covers, guards, etc. are in place.

STANDARD HEAVY-DUTY DESIGN WITH INNOVATIVE FEATURES, EQUALS LONG LASTING PERFORMANCE.



Standard Head with removable cover



Standard Tail with hinged cover opened

Ball rollers with collectors tail section
Self-reloading and self-cleaning tail section



Head discharge level with levelbase



Heavy-duty long life pillow block roller bearings
Standard heavy duty shaft tail



Hinged inspection door

Standard Tail



CAPACITY TO 10,000 CF/HR

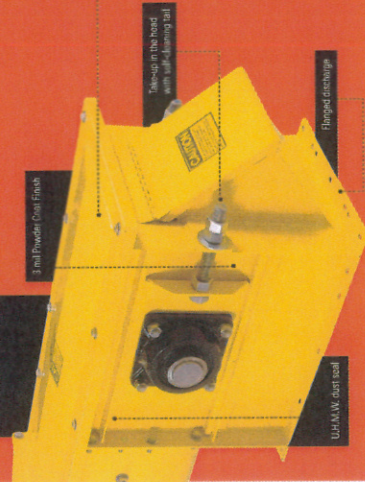
The TRAMCO Model RB Conveyor is specifically designed for the handling of soft stock or materials that are easily crumbled or broken, such as seed, feed, pellets and other fragile materials. All components are jig welded to ensure their interchangeability and are checked for precise fit by the strict TRAMCO 100% inspection policy. The Model RB is built standard with 10-gauge construction. The w-shaped trough is available in widths of 9", 12", 14" and 16". Our "total quality process" means that you can count on years of quiet, trouble-free performance from your Model RB Conveyor.



MODEL RB

THE HEAVY-DUTY, HARD WORKING CONVEYOR FOR SOFT STOCK.

Standard Head



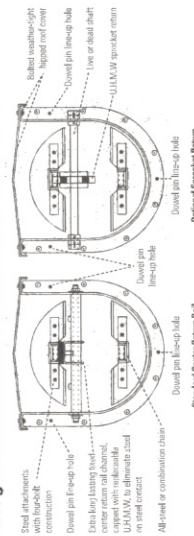
Four ball flange bearing
Heavy-duty ball bearings

Standard Tail



Trough Cross Sections

Center Aligned UHMW Models RB, RB10 are standard on all Tranco Model RB Conveyors for self-cleaning and quiet operation.



TRAMCO... THE WORLD'S MOST COMPLETE LINE OF CHAIN AND ENCLOSED BELT CONVEYORS.

TRAMCO conveyors and elevators, "The Quiet Ones" have become the standard of the industry. They are designed, engineered and built for hard work and long life. All models feature non-metallic flights for lower noise levels, minimal maintenance and downtime.

TRAMCO FEEDER
The Right Hand of the Conveyor

Designed to feed material into the conveyor at an angle, the TRAMCO feeder is built for long life and low maintenance.

TRAMCO BUCKET ELEVATOR
The Work Horse

Capable of lifting large quantities of material, the TRAMCO bucket elevator is built for long life and low maintenance.

TRAMCO MODEL 16

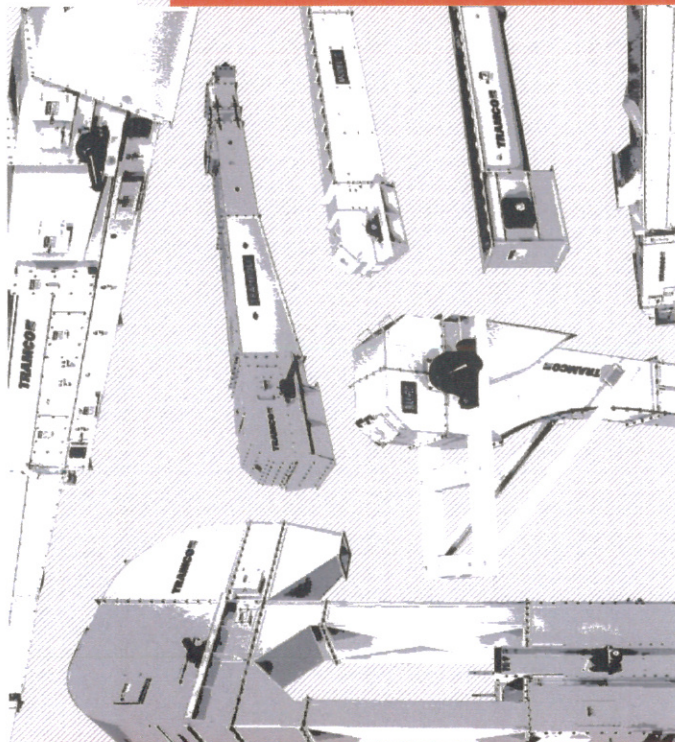
Designed for soft handling and quiet operation with a unique trough for handling soft bulk materials that are easily compressible or breakable.

TRAMCO MODEL 16

Full standard with 1/2 degree correction to accommodate large quantities of free-flowing materials. Provides quiet operation for sensitive areas applications.

TRAMCO BULL-DOZ

The heavy-duty conveyor designed for bulk handling of abrasive materials, such as iron ore, coal, and other hard materials.



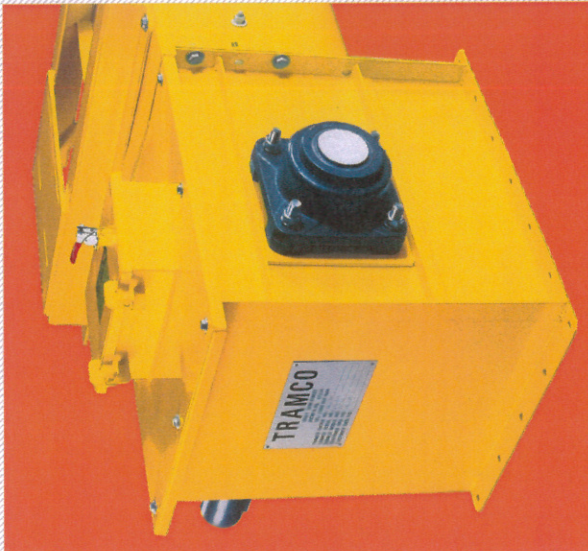
A unique combination of design, engineering, proper component selection, manufacturing, and service after the sale makes TRAMCO conveyors the first choice for consulting and supply in bulk material handling situations. TRAMCO delivers products for various industries such as chemical, coal, food and grain, mining, plastic, pulp, rubber and paper or solid waste and recycling. Buying TRAMCO ensures expertise, know-how, manufacturing know-how, and the comfort that comes with every TRAMCO conveyor.

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The Highest Performance at the Best Value!

Model RB The Ultimate Feed Mill Conveyor

TRAMCO... THE WORLD'S MOST COMPLETE LINE OF CHAIN AND ENCLOSED BELT CONVEYORS.

TRAMCO conveyors and elevators, "The Quiet Ones" have become the standard of the industry. They are designed, engineered and built for real work and long life. All models feature comprehensive flights for lower noise levels, minimal maintenance and downtime.



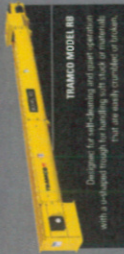
TRAMCO AT BELT™
All Support Belt Conveyors
Standard trough conveyors for horizontal and vertical applications. Light to heavy duty design. 10' to 20' length.



TRAMCO BULK FLOW™
The heavy-duty chain conveyor designed for heavy-duty applications such as wet and sticky, sticky ores and drosses, and materials that contain tramp metal.



TRAMROLL™
The low-profile conveyor with stainless-steel surfaces, self-aligning and self-cleaning rollers and multiple idlers. The "quietest" design in the industry.



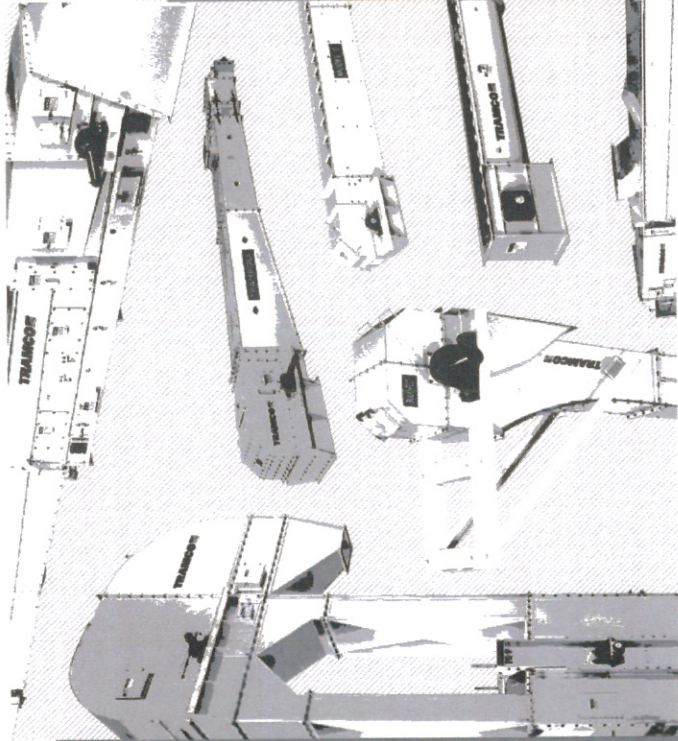
TRAMCO MODEL 8R
Designed for soft handling and gentle operation with a maximum length of handling over 1000' or materials that are easily susceptible to breakage.



TRAMCO MIDDLE 6
Built to handle with 10-page construction to accommodate large quantities of free-flowing materials. Provides years of trouble-free service under extreme applications.



TRAMCO BUCKET ELEVATOR
The Work Horse
Centrifugal discharge design used for the bulk loading of free-flowing materials. Available in 10' to 20' height. Built to last for the toughest environments.



A unique combination of design, engineering, project management, manufacturing, and service after the sale makes TRAMCO Conveyors the first choice for consulting and supply in bulk material handling situations. TRAMCO delivers product for various industries such as chemical, coal, food and grain, mining, plastic, pulp, rubber and paper, or solid waste and recycling. Buying TRAMCO ensures expertise, knowledge, manufacturing know-how, and the comfort that comes with every TRAMCO conveyor.

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The Highest Performance at the Best Value!

JETBELT™



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LOOK, NO BEARINGS...JUST A CUSHION OF AIR!

The TRAMCO JetBelt™ is designed for free flowing products in all types of industries. You will find it is a good choice when dust containment is important. It is an efficient system requiring less horsepower and no idlers in the material carrying or empty return pan regardless of the conveying distance. The head section is split making removal of shaft and pulley assemblies easy. The tail section has bolt-on covers and a slot for pulley removal.

Open top cover door on top

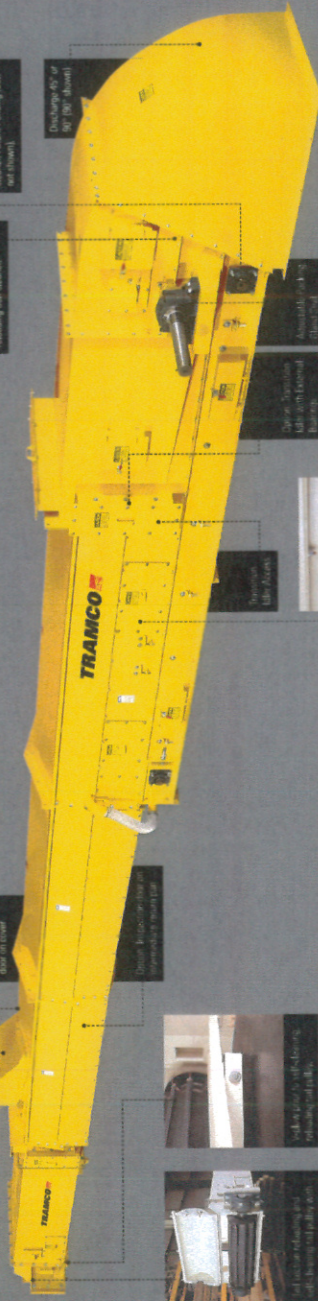
Open top cover door on top



Head pulley assembly allowing belt change



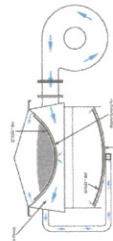
Material flow through the belt with no idlers



Here's how the JetBelt™ system works

The load-carrying EZ-FLEX™ Belt is supported by a layer of air between the belt and the pan. The air is supplied from a fan, which pressurizes the air chamber under the pan. The air flows up through holes in the pan. The air is then vented to a dust control system. This unique design allows the JetBelt™ to run 3000-40 feet and greater.

TRAMCO uses the EZ-FLEX™ Belt exclusively. With unique qualities which include more lateral elasticity in cold climates and the ability to readily conform to the air film between the belt and the conveyor plenum. This is done without compromising longitudinal strength.



*Note: Covers have been removed for illustrative purposes only. Do not operate conveyor unless all covers, guards, etc. are in place.

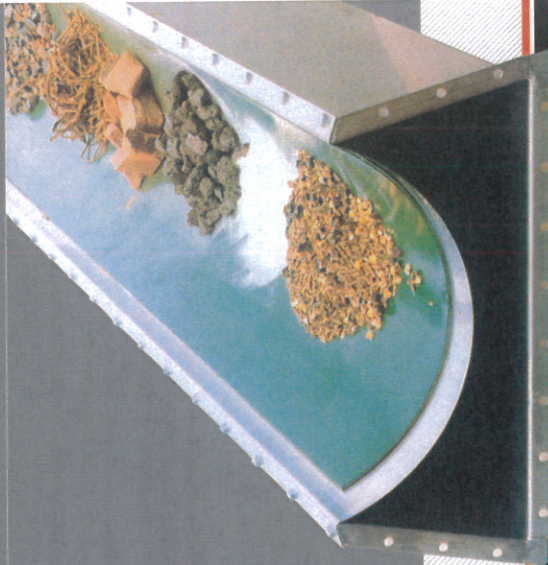
WITH THE JETBELT™ DRYBULK HANDLING IS A BREEZE!

TRAMCO has been engineering air supported belt systems since the early 1980's and now with state-of-the-art technology, JetBelt™ is the highest performing, best value air conveyor system in the industry.

JetBelt™ offers an entirely new level of operating efficiencies for dry bulk handling requirements such as grain, coal, limestone and aggregates. Instead of relying on conventional roller bearings to support the belt, JetBelt™ runs on a thin "cushion of air" for virtually friction-free operation. Its smooth transport and constant air flow means materials stay on the conveyor belt and slurring is practically eliminated.

JetBelt™ lets you move the same materials faster, more safely, improves working conditions and provides a dramatic reduction in energy and maintenance costs.

The TRAMCO JetBelt™ is the conveyor system that delivers the most to you and it does it all with air.



JETBELT™

TRAMCO

tramacoinc.com

TRAMCO... THE WORLD'S MOST COMPLETE LINE OF CHAIN AND ENCLOSED BELT CONVEYORS.

TRAMCO conveyors and elevators, "The Outer Circle," have become the standard of the industry. They are designed, engineered and built for hard work and long life. All models feature non-wearables, flanges for lower noise levels, minimal maintenance and downtime.

TRAMCO JETSET™
Air Supported Belt Conveyor

An air supported conveyor that is designed for long life and low maintenance. It is ideal for use in high temperature environments and for long distance applications.

TRAMCO BULK-FLO™

The heavy-duty chain conveyor designed specifically for processing high volume bulk material. It is ideal for use in the mining, aggregate, and cement industries.

TRAMCO BUCKET ELEVATOR

Used for vertical transport of bulk material. It is ideal for use in the mining, aggregate, and cement industries. It features a high capacity and low maintenance design.

TRAMCO™

For bulk belt conveyors with enclosed features and a wide range of options. It is ideal for use in the mining, aggregate, and cement industries.

TRAMCO MODEL RB

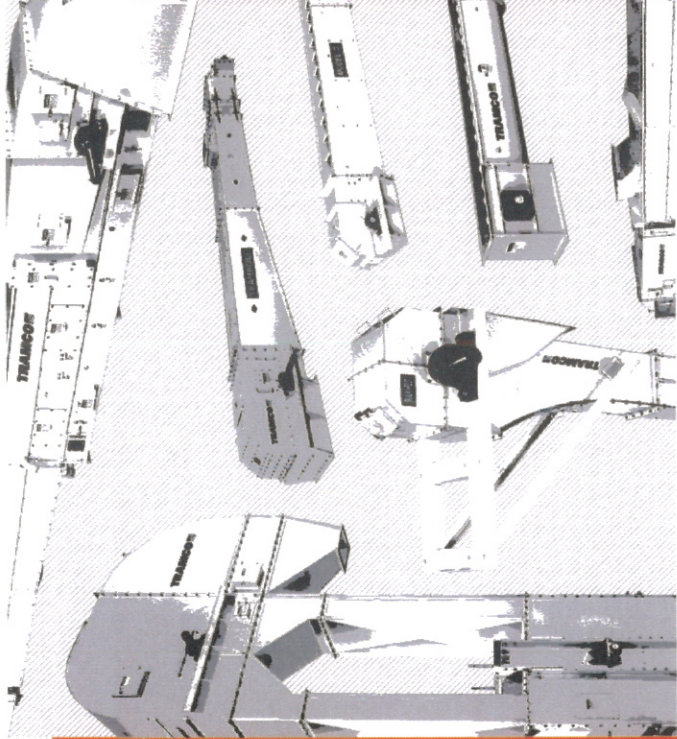
Designed for rail-banking and open operation with a unique height for handling with most materials. It is ideal for use in the mining, aggregate, and cement industries.

TRAMCO MIDDLE G

High capacity with 1/2" gauge construction for maximum life. It is ideal for use in the mining, aggregate, and cement industries.

TRAMCO MIDDLE G

High capacity with 1/2" gauge construction for maximum life. It is ideal for use in the mining, aggregate, and cement industries.



A unique combination of design, engineering, proper component selection, manufacturing, and service after the sale make TRAMCO Conveyors the first choice for consulting and supply in bulk material handling situations. TRAMCO delivers product for various industries such as chemical, coal, food and grain, mining, plastic, pulp, rubber and paper, or solid waste and recycling. Buying TRAMCO ensures expertise, knowledge, manufacturing know-how, and the comfort that comes with every TRAMCO conveyor.

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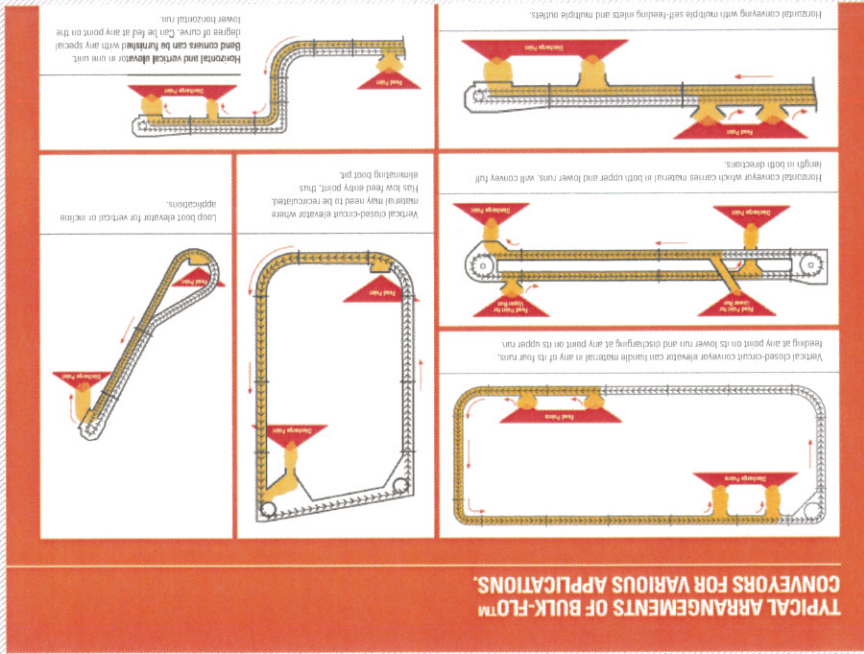
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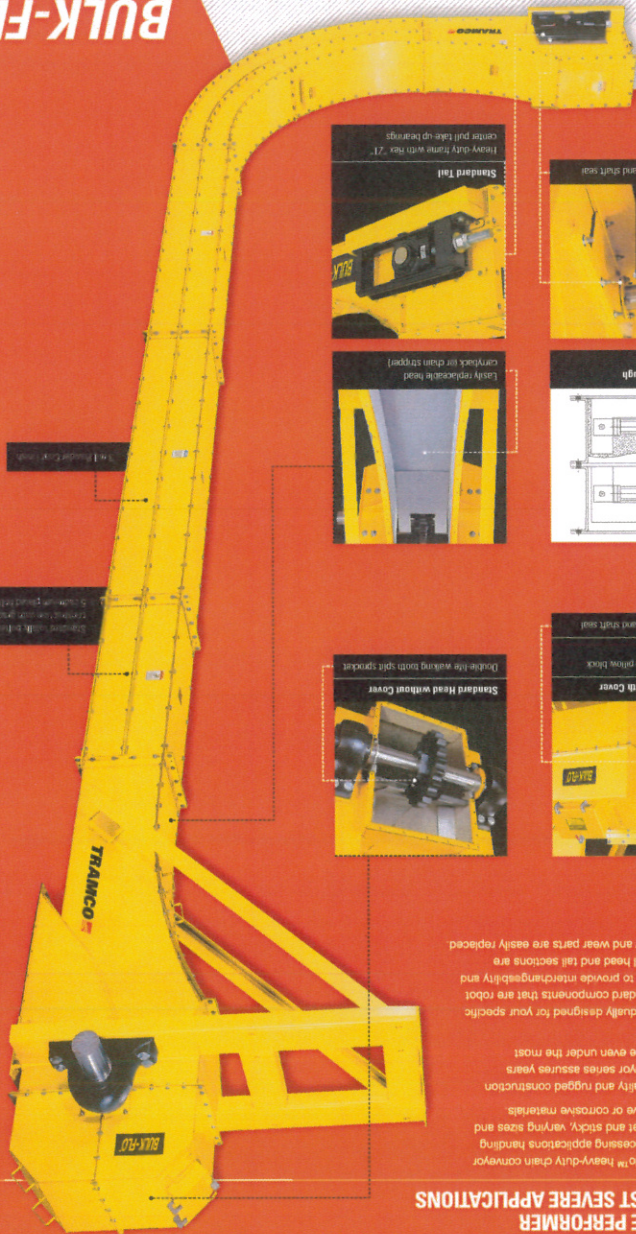
Specifically designed
for your processing needs.

**The Highest
Performance
at the Best Value!**

Bulk-Flo™ Rugged & Versatile



BULK-FLO™



Note: Covers have been removed for illustrative purposes only. Do not operate conveyer unless all covers, guards, etc. are in place.



Chain roller cover

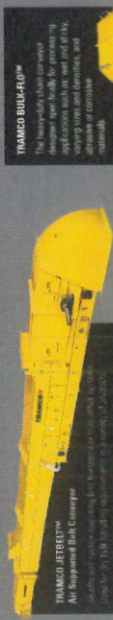
Support with roller to allow for expansion

DEPENDABLE PERFORMER FOR THE MOST SEVERE APPLICATIONS

The TRAMCO Bulk-Flo™ heavy-duty chain conveyor is built to work in processing applications handling materials such as wet and sticky, varying sizes and densities, and abrasive or corrosive materials. The unsurpassed quality and rugged construction of the Bulk-Flo conveyor series assures years of dependable service even under the most severe conditions. Each system is individually designed for your specific application from standard interchangeable and welded in jig fixtures to provide interchangeability and smooth operation. All head and tail sections are maintenance friendly and wear parts are easily replaced.

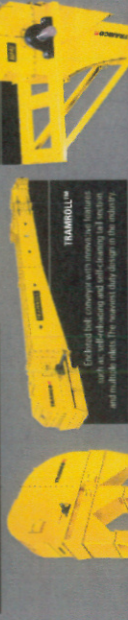
TRAMCO...THE WORLD'S MOST COMPLETE LINE OF CHAIN AND ENCLOSED BELT CONVEYORS.

TRAMCO conveyors and elevators, "The Quiet Ones" have become the standard of the industry. They are designed, engineered and built for "real work" and long life. All models feature considerable lights for lower noise levels, minimal maintenance and downtime.



TRAMCO JERBU™
An "Designed for Life" Conveyor

For 25 years, TRAMCO has been a leader in the design and manufacture of heavy-duty conveyors.



TRAMCO BULK-10™

The heavy-duty chain conveyor designed for bulk for primary applications such as sand and gravel, quarry sites and demolition, and for use in a variety of industries.



TRAMROLL™

Each belt unit conveyor with tensioned rollers such as, self-cleaning and self-cleaning rollers and features such as "remote belt stop" in the industry.



TRAMCO MODEL 1B

Designed for safe loading and unloading with a workplace trough for handling soft bulk or materials that are easily transfer or broken.



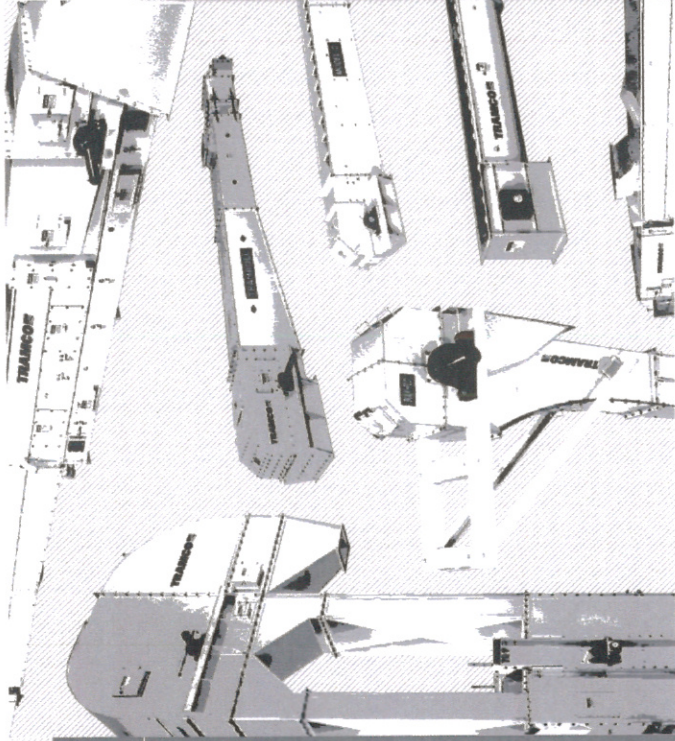
TRAMCO MODEL 1U

Built standard with 10-degree inclination is accommodable larger capacities of handling materials. Provides more of trouble-free service under extreme applications.



TRAMCO BUCKET ELEVATOR

The "Work Horse"
Conventional design, rugged construction, built to last. Features wear-resistant steel with built-in maintenance-free rollers for the toughest requirements.



A unique combination of design, engineering, and service after the sale makes TRAMCO conveyors the first choice for consulting and supply in bulk material handling situations. TRAMCO delivers products for various industries such as chemical, coal, food and grain, mining, plastic, pulp, rubber and paper, or solid waste and recycling. Buying TRAMCO ensures expertise, knowledge, manufacturing know-how, and the comfort that comes with every TRAMCO conveyor.

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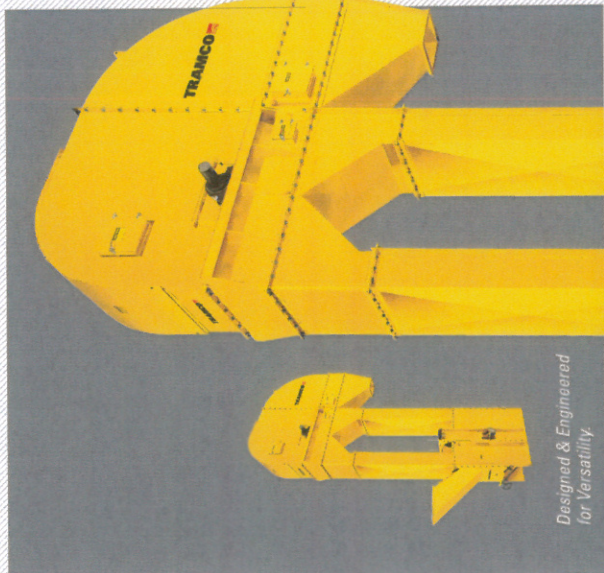
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Bucket Elevator

The Work Horse



Designed & Engineered
for Versatility

The Highest
Performance
at the Best Value!



OUR STANDARD FEATURES, YOUR SPECIFICATIONS.

A TRAMCO Bucket Elevator exceeds or "meets" your quality requirements in the features you need to meet your specific product requirements.

BUCKET ELEVATOR

BUCKET ELEVATOR BUILT FOR STRENGTH & DURABILITY FROM THE GROUND UP.

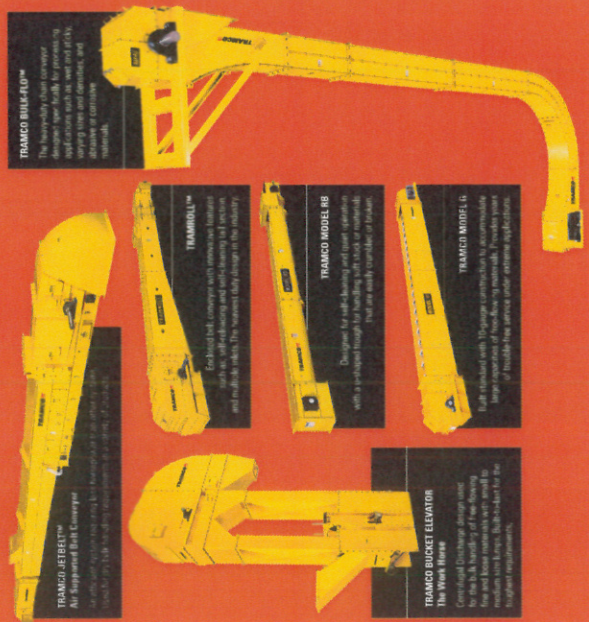
TRAMCO Bucket Elevators have the same "built-tough-to-last" quality that gives us all TRAMCO products.

Centralized Design: Bucket Elevators are designed and engineered for the bulk handling of free-flowing fine and loose materials with small to medium size lumps. The material being handled are discharged by centrifugal action as the bucket pass over the head pulley.

We build our Bucket Elevators to meet your demanding requirements and to be the "work horse" you can count on for years of dependable service.

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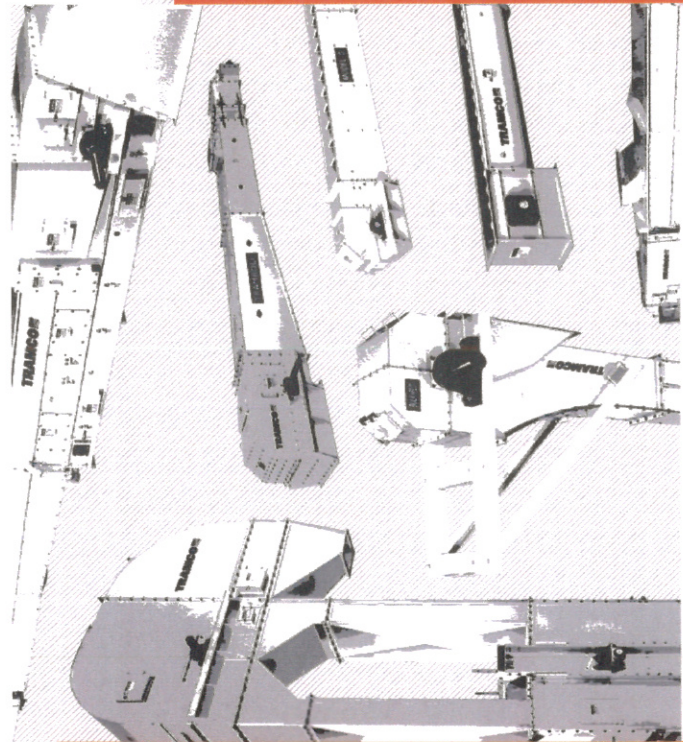
TRAMCO BULK-FLO™
The heavy-duty chain conveyor designed specifically for processing light materials such as, wet and dry, aggregate, sand, gravel, waste, and refuse or refuse.

TRAMCO JETBEST™
For the most difficult conveyor applications and materials, TRAMCO offers the JETBEST™ chain conveyor. The JETBEST™ chain conveyor is designed for the most difficult applications in the industry.

TRAMCO MODEL 8B
Designed for self-cleaning and quiet operation with a patented flight for handling wet, sticky or material that are easily transferable at transfer points.

TRAMCO MODEL 6
Built exclusively with 1/2" diameter cast iron for maximum life and low maintenance with small diameter cast iron. Built in order for the highest requirements.

TRAMCO BUCKET ELEVATOR
The Work Horse
Covered bucket elevator design used for the bulk handling of free flowing fine and coarse materials with small to medium tonnage. Built in order for the highest requirements.



A unique combination of design, engineering, proper component selection, manufacturing, and service after the sale makes TRAMCO Conveyors the first choice for consulting and supply in bulk material handling situations. TRAMCO delivers product for various industries such as chemical, coal, food and grain, mining, plastic, pulp, rubber and paper or solid waste and recycling. Buying TRAMCO ensures expertise, knowledge, manufacturing know-how, and the comfort that comes with every TRAMCO conveyor.

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tramco.com



Horizontal to 15° Incline
The Highest Performance at the Best Value!

Model G En-Masse Conveyor

EXCEPTIONAL QUALITY, LASTING PERFORMANCE.

The TRAMCO Model G Conveyor is the heavy-duty conveyor designed to handle the most severe applications for many years of trouble-free service. Robot welded jig-fitted parts combined with totally bolted construction ensures precise fit and interchangeability of components. This "total quality process" means you get more value when you choose TRAMCO.



MODEL G

Bypass Feed Inlet

with replaceable abrasion resistant liners.



Heavy-duty center pull takeup frame



Double pins to ensure proper alignment

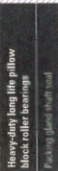


Full length take frame

Extended Life Liners and Bottoms

Abrasion resistant materials are available for replaceable liners and bottom plates. Liners are designed for close tolerance with smooth faced materials and fit. There is minimal thermal expansion. Abrasion resistant materials from 200 to 500 Brinell (H to 61 Rockwell C) with thickness from 3/16 gauge (5 mm) to 3/4 inches (19mm) are available depending upon the application requirements.

*Note: Downers are not intended for abrasive purposes of 60 to 700 Brinell or greater unless all downers, guards, etc. are in place.



Heavy-duty long life pillow block roller bearings

Packaging placed shaft seal

HEAD AND TAIL DESIGNED TO BE MAINTENANCE FRIENDLY...ALL WEAR PARTS ARE EASY TO REPLACE.



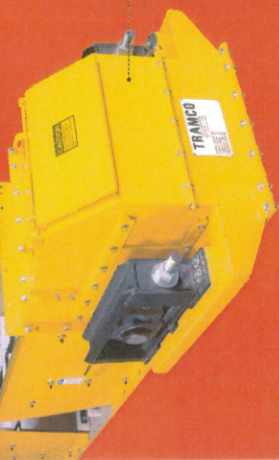
Standard head without cover

Hinged inspection and relief door for conveyor protection.
Fully replaceable head camplate for chain sprocket.
Double life working tooth left sprocket.

Standard Head



Standard Tail



Standard Tail without cover

Double life working tooth left sprocket



Series SCR Conveyor OPTIONAL FEATURES

■ **GRAVITY TAKE-UP** - Available in tower or horizontal configurations for long conveyors.

■ **METAL SKIRTING** - Adjustable, bolt-on metal skirting keeps product centered on belt reducing spillage at transitions.

■ **ANGLE FLANGE INLET** - Complete with bolt-on adjustable metal skirting to assure proper flow of material onto the belt.

■ **CRESCENT TOP BELT** - For incline applications, depending on product handled.

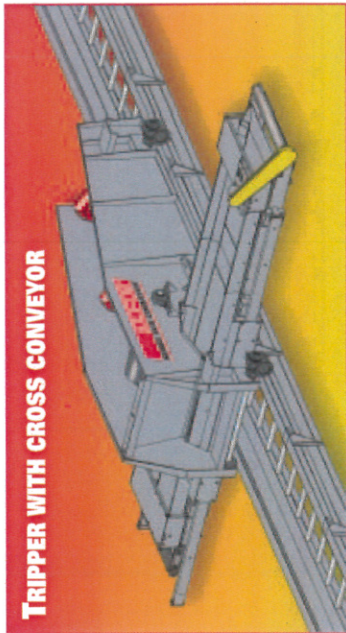
■ **BEND SECTION** - Designed for use when gradual inclines are necessary.

■ **12" DIAMETER DRIVE PULLEY** - Recommended for longer and higher-capacity conveyors. Please consult factory for further information.

■ **GEAR REDUCER DRIVE** - Right-angle gear reducer (C face motor required) or shaft mounted gear reducer (foot mount motor required). For heavy-use operations, or applications requiring a slow belt speed.

■ **TRIPPER** - Movable along conveyor via manual or electric power. Available with shuttling and reversing cross conveyor to fill in multiple directions. (See illustration below or photograph inside for more information)

TRIPPER WITH CROSS CONVEYOR



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SERIES SCR CONVEYOR



DESIGNED WITH EXCLUSIVE
MODULAR FEATURES!

RAPAT CORPORATION PRODUCT LINE CARD

CONVEYORS

- ENCLOSED BELT
- BAGGING
- CLEATED BELT
- TRUCK & HALFCAR UNLOADERS
- FLEXIBLE SIDEWALL
- PORTABLE BELT
- FOOD HANDLING
- TOUCHING ROLLER
- PLASTIC & WIRE BELTS
- SLIDER BED
- STAINLESS STEEL CONSTRUCTION
- EN-MASSE (DRAG)
- CUSTOM CONVEYORS

DISTRIBUTORS

- ROTO-FLO
- ROTARY VALVE
- SWING-FLO
- BUCKET ELEVATORS
- COMPLETE BUCKET ELEVATOR ASSEMBLIES
- CUSTOM ACCESSORIES
- BACKLEG ROLL OPTIONS

SCREW CONVEYORS

- TUBE-TYPE SCREW CONVEYORS
- AUGER FLIGHTING

HORIZONTAL UNLOAD POWERHEADS

- 25 DEGREE INCLINE POWERHEADS
- BIN UNLOAD TUBES WITH ROLLER SLIDE GATES
- BANJO SUMP BIN UNLOAD TUBES
- ELECTRIC / HYDRAULIC DRIVE KITS

ACCESSORIES

- HOPPER CAR UNLOADERS
- TRANSFER SPOUTING
- CAST IRON TURNHEADS
- REVERSIBLE ELBOWS
- DRAW OFF SPOUTS

INDUSTRIAL MATERIAL HANDLING SOLUTIONS THAT WORK!

At The Rapat Corporation, we approach each project with the intent of finding a better way to solve our customers' problems.

We listen to their individual needs, and applying what we learn to best solve their specific material handling requirements.

Put our experience with some of the largest Fortune 500 Corporations to work for you—call toll-free today for more information.

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The Rapat Corporation • 40001 Industrial Park • Healey, MN 55619 USA
Toll Free (800) 321-6977 • (218) 483-8844 • Fax (218) 483-9539 • www.rapat.com

Series SCR Conveyor FEATURES

ALL NEW COMPUTER DESIGNED CONVEYOR, BUILT FOR EFFICIENCY AND DURABILITY

We designed the Rapat Series SCR Conveyor with our customers in mind. Over the past 30 years, we've offered many different conveyor configurations—with every design built with a specific use in mind.

With the Series SCR Conveyor, we went to our best resource—our customer! We asked what features they wanted and how we could design a system to fit their demanding expectations.

The result is a conveyor with unmatched features and common-sense engineering.

MATERIAL VERSATILITY IS THE KEY TO EXCELLENT CONVEYOR DESIGN

Materials conveyed include grain, corn, seed, beans, fertilizer, recyclables, wood blocks, sand, etc.—nearly any loose bulk material.

The shape of the frame forms the belt into a trough, and the product rides smoothly on top of the belt. We've designed the Series SCR Conveyor without internal flanges—eliminating contamination due to product build-up.

MODULAR COMPONENTS MAKE MANY CUSTOM CONVEYORS UNNECESSARY

The Series SCR Conveyor is engineered with modular components—meaning that regardless of the length or width of your particular conveyor, the same basic parts are used!

There are no right or left sides. Connector plates are identical throughout the conveyor. Belt skirting segments are exactly the same. This forward thinking allows for lower shipping costs and easier installation. And, it actually *increases* overall conveyor rigidity and performance!



MODULAR CONSTRUCTION DETAIL

ADJUSTABLE MOTOR MOUNT
Heavy-duty motor mount designed to fit a variety of motors. Adjustable for V-belt tensioning.

V-BELT DRIVE
Standard belt drive system. Other options available.

FORMED TROUGH
Formed trough with self-cleaning bed contains all material on belt and reduces friction.

STEEL CONSTRUCTION
Standard 14 gauge mild steel is used in frame construction. Other materials are available as option.

2" DIAMETER FLAT CARRYING IDLERS
Spaced every 12" along conveyor for reduced belt wear and more efficient power usage.

HIP ROOF COVERS
Optional full-length, all weather covers provide your materials full protection from the elements.

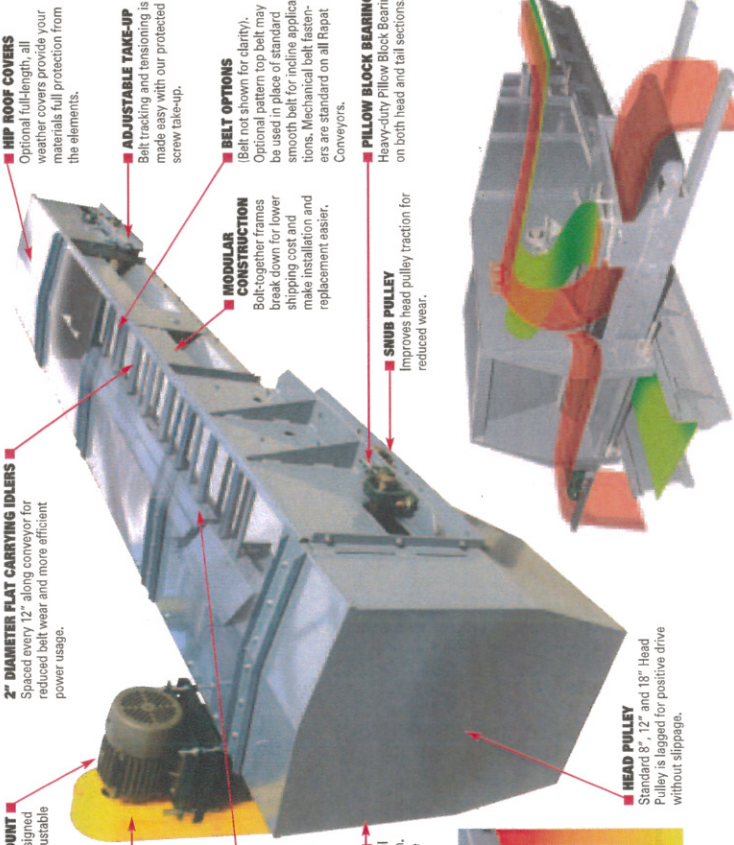
ADJUSTABLE TAKE-UP
Belt tracking and tensioning is made easy with our protected screw take-up.

BELT OPTIONS
(Belt not shown for clarity). Optional pattern top belt may be used in place of standard smooth belt for incline applications. Mechanical belt fasteners are standard on all Rapat Conveyors.

PILLOW BLOCK BEARINGS
Heavy-duty Pillow Block Bearings on both head and tail sections.

SNUB PULLEY
Improves head pulley traction for reduced wear.

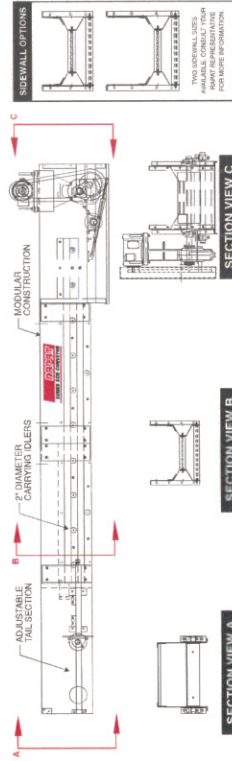
MODULAR CONSTRUCTION
Bolt-together frames break down for lower shipping cost and make installation and replacement easier.



HEAD PULLEY
Standard 8", 12" and 18" Head Pulley is lagged for positive drive without slippage.



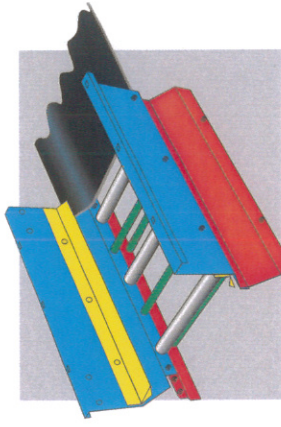
TELESCOPING BOLT-ON SCREW TAKE-UPS



OPTIONAL TRIPPER

The SCR Tripper option moves along the conveyor length via manual or electric power. The main belt (shown in green) moves through the Tripper, feeding product (shown in red) onto cross conveyor.

A fully reversible cross conveyor allows product flow to either end of conveyor. The cross conveyor moves along its' own "track" to fill large storage facilities with multiple discharge points.



SERIES SCR CONVEYOR

The Rapat Series SCR Belt Conveyor is an economical, low maintenance conveyor for handling bulk product. Bolt-together, modular construction means reduced freight costs, easier installation and uniform parts for convenient maintenance.

SERIES SCR SPECIFICATIONS

Lengths	Any length is available. All conveyors are custom made to fit your needs.
Belt	Smooth PVC belt with mechanical fastener. Available in 18" to 42" widths. Frame is designed with no internal flanges to prevent product contamination.
Carrying Idlers	2" diameter flat carrying idlers are spaced every 12" to reduce belt wear and lower horsepower requirements.
Drive	V-belt drive with roller chain final drive.
Frame	Modular, bolt-together frame has uniform sides - no confusing right or left sides! Easier repair and replacement along with reduced freight costs.
Covers	Optional Hip Roof covers for weatherproof installations.
Power	Can be powered with single phase or three phase electric motors.
Pulleys	8", 12" and 18" diameter lagged head with adjustable snub and tail pulleys for greater traction. Our protected screw take-up allows positive belt tracking and tensioning adjustment without seizing!

All specifications subject to change without notice.



Series ETR Conveyor FEATURES

RAPAT ENCLOSED TROUGHING ROLLER CONVEYORS ARE SMOOTH, QUIET AND TOUGH!

All Rapat conveyors are designed and built to exacting specifications—giving you a system that will give you more years of service, with less downtime and repair. Heavy-duty construction ensures a long life, and competitive pricing offers cost efficiency.



REMOVABLE ACCESS COWLINGS
Tail cowlings remove quickly for service access.

EASY ACCESS FOR MORE REGULAR MAINTENANCE

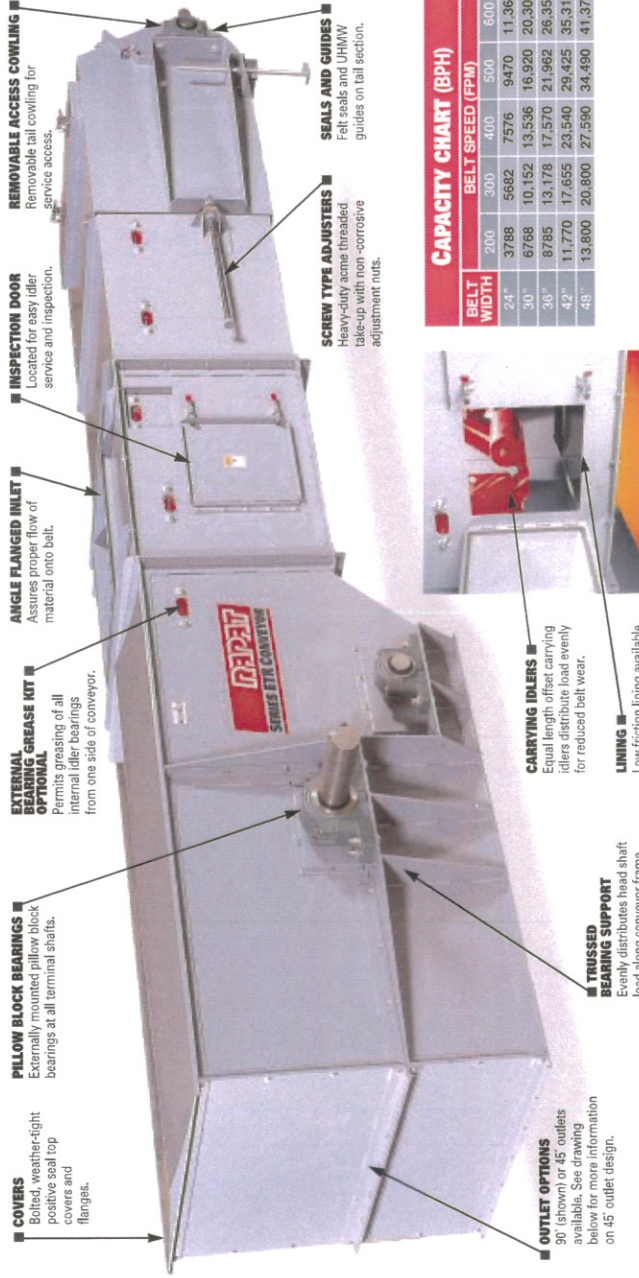
Easy-access features that simplify maintenance are built right into every ETR Conveyor. Features like access doors placed along the conveyor, and removable hoods to get you in and out of the head and tail sections quickly.

TROUGHING ROLLER DESIGN FOR IMPROVED PERFORMANCE

The design of our troughed idler reduces overall friction. With sizes to fit your high-capacity needs, the troughing roller becomes an important feature, allowing for improved performance and less belt wear.

MAXIMUM CAPACITIES

An accepted world-wide industry standard for high capacity conveying, Rapat's troughing roller idlers hold belt "trough" shape better than other idler styles, meaning better fill capacities and transfer rates.



COVERS
Bolted, weather-tight positive seal top covers and flanges.

PILLOW BLOCK BEARINGS
Externally mounted pillow block bearings at all terminal shafts.

EXTERNAL BEARING GREASE KIT (OPTIONAL)
Permits greasing of all internal idler bearings from one side of conveyor.

ANGLE FLANGED INLET
Assures proper flow of material onto belt.

INSPECTION DOOR
Located for easy idler service and inspection.

REMOVABLE ACCESS COWLING
Removable tail cowlings for service access.

SCREW TYPE ADJUSTERS
Heavy-duty, same threaded take-up with non-corrosive adjustment nuts.

SEALS AND GUIDES
Felt seals and UHMW guides on tail section.

OUTLET OPTIONS
90° (shown) or 45° outlets available. See drawing below for more information on 45° outlet design.

TRUSSED BEARING SUPPORT
Evenly distributes head shaft load along conveyor frame.

CARRYING IDLERS
Equal length offset carrying idlers distribute load evenly for reduced belt wear.

LINING
Low friction lining available.

BELT WIDTH	CAPACITY CHART (BPH)			
	200	300	400	500
24"	3788	5682	7576	9470
30"	6768	10,152	13,536	16,920
36"	8785	13,178	17,570	21,962
42"	11,770	17,655	23,540	29,425
48"	13,800	20,800	27,590	34,490



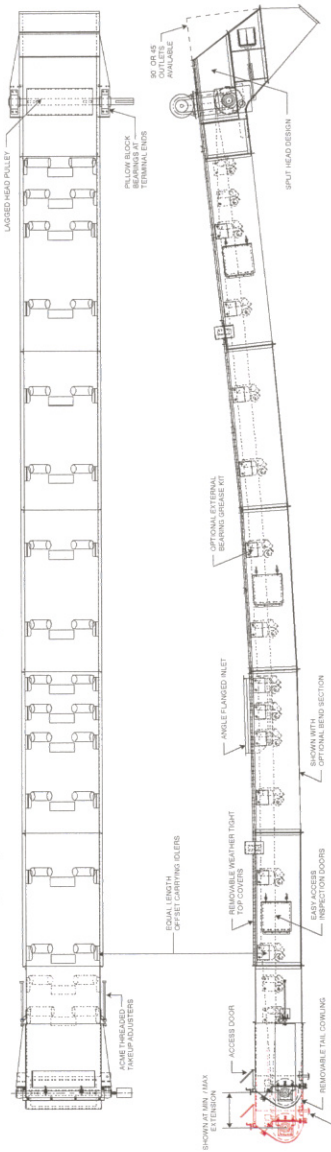
TYPICAL CROSS SECTION



SPECIFICATIONS

Lengths	Any length is available. All conveyors are custom made to fit your needs.
Belt	Heavy-duty industrial belt with mechanical fastener.
Drive	Many drive options available, contact your representative for more information.
Bearings	Pillow block bearings at all terminal shafts.
Seals	Positive sealed covers and flanges. Felt seals and UHMW guides on tail section.
Frame	Totally enclosed formed and welded carbon steel frame.
Doors	Inspection doors allow access to idlers for service, inspection and replacement.
Belt Splice	Non-sparking mechanical belt splice with splice protector.
Idlers	Equal length offset carrying idlers standard.
Pulleys	Heavy-duty crown faced lagged head pulley and winged tail pulley are standard.
Splice Head	Easy access to head pulley for inspection and maintenance.
Top Covers	Bolted, weather-tight top covers. Removable tail cowlings for service access.
Bottom Covers	Carbon steel bottom covers with low friction lining available.
Take-up	Heavy duty acme threaded take-up with non-corrosive adjustment nuts.
Inlet	Angle flanged inlet opening completely rubs skirting. Inlet directs product flow onto belt to maintain capacity and reduce spillage.
Discharge	Specialty designed discharge reduces product damage and wear.

All specifications subject to change without notice.



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Series ETR Conveyor OPTIONAL FEATURES

■ PRESSURE PLUG SWITCH -

Designed to produce a signal if the flow of material is interrupted.



■ ZERO SPEED SWITCH -

Will sense under speed, overspeed or zero speed conditions.



■ EXTERNAL BEARING GREASE KIT -

Permits fast greasing of all internal idler bearings from one side of conveyor.



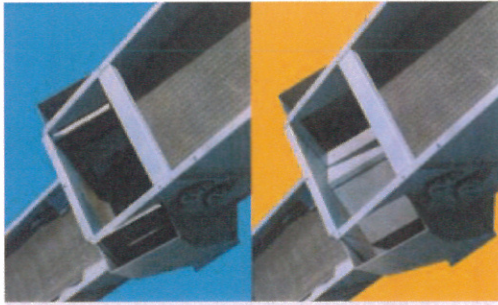
INTERMEDIATE DISCHARGE

Single or multiple discharges may be added to allow the discharge of material at any point along the conveyor.

The Intermediate Discharge is ideal for outdoor installations, over multiple bins, tanks, buildings—or any application where multiple discharge points are required. Discharge doors may be operated manually, electrically or pneumatically.

Top: With bypass doors open, material flows through bypass to end of conveyor.

Bottom: Closed bypass doors (manual, electric, or pneumatic operation) redirects material around belt and discharges below conveyor.



RAPAT CORPORATION PRODUCT LINE CARD

CONVEYORS

- ENCLOSED BELT
- BAGGING
- CLEANED BELT
- TRUCK & RAILCAR UNLOADERS
- FLEXIBLE SIDEWALL
- PORTABLE BELT
- FOOD HANDLING
- TROUGHING ROLLER
- PLASTIC & WIRE BELTS
- SLIDER BED
- STAINLESS STEEL CONSTRUCTION
- EN-MASSE (DRAG)
- CUSTOM CONVEYORS

DISTRIBUTORS

- ROTO-FLO
 - ROTARY VALVE
 - SWING-FLO
- ## BUCKET ELEVATORS
- COMPLETE BUCKET ELEVATOR ASSEMBLIES
 - CUSTOM ACCESSORIES
 - BACKLEG ROLL OPTIONS
- ## SCREW CONVEYORS
- TUBE TYPE SCREW CONVEYORS
 - AUGER FLIGHTING

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Put our experience with some of the largest Fortune 500 Corporations to work for you—call toll-free today for more information.

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SERIES ETR CONVEYOR



ENCLOSED TROUGHING ROLLER

RAPAT CORPORATION

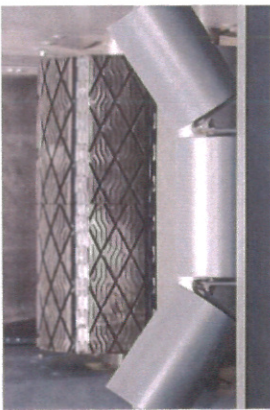
The Rapat Corporation ■ Hawley Industrial Park ■ Hawley, MN 55649 USA
Toll Free (800) 425-6377 ■ (218) 483-8344 ■ Fax (218) 483-5535 ■ www.rapat.com

Series ECTR Conveyor FEATURES

RAPAT SERIES ECTR: THE COMPLETELY ENCLOSED TROUGHING ROLLER CONVEYOR

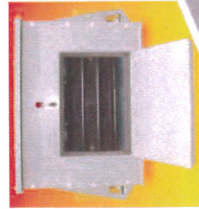
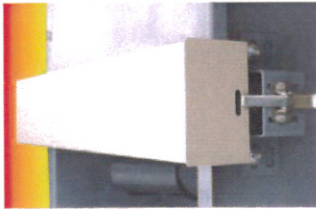
With today's tight safety regulations and environmental concerns, completely enclosed conveyors are becoming more common. Whether it is to reduce environmental contaminants, provide a safer working environment for employees, or to maintain the integrity of your products by reducing contamination, the Rapat ECTR line of heavy-duty conveyors have the features you're looking for.

No matter what your material handling or overall capacity requirements, Rapat has a system that is easily and affordably custom tailored to suit your needs.



Above: CEMA standard 3-Roll Troughing idlers carry the load.

Series ECTR Conveyors have access hatches located at every critical inspection point, allowing easier inspection, maintenance and repair.



WE'VE GOT YOU COVERED

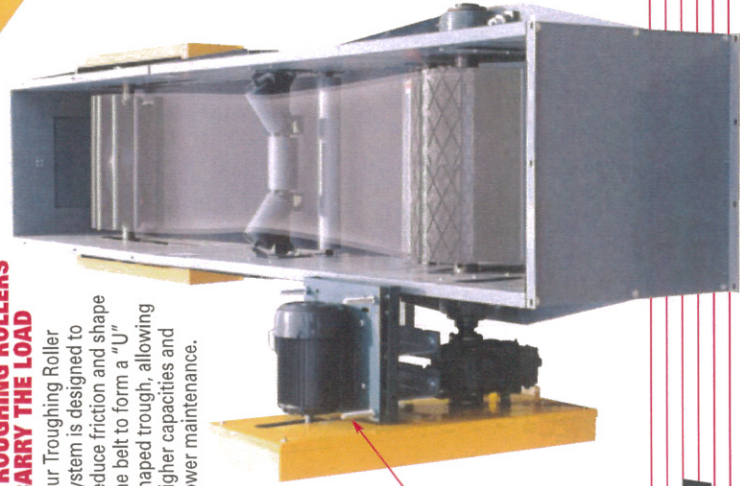
Different installations have different requirements. Maybe you would like to keep the wind and weather away from your product, and require enclosure on the sides and top only? Our ECTR Conveyor will suit you perfectly! Or perhaps your installation is in a dust-sensitive area, and you need to keep potentially hazardous dust to a minimum—requiring a fully enclosed and sealed conveyor. In this instance the Rapat ECTR conveyor will provide the containment you need without sacrificing durability or performance.



Series ECTR Conveyor shown with top covers installed for weather-tight operation.

TROUGHING ROLLERS CARRY THE LOAD

Our Troughing Roller system is designed to reduce friction and shape the belt to form a "U" shaped trough, allowing higher capacities and lower maintenance.



ADJUSTABLE TAKE-UP
Convenient belt adjustment with all components externally mounted.

MOTOR AND DRIVE
Shown with standard shaft-mounted motor. Many options available including right angle, inline, and gear motor drives.

COMPUTER ENGINEERED BOLT-TIGHTER DESIGN
Through the use of 3-D Solid Modeling software, we're able to maintain tighter tolerances—giving you a system that installs faster, lasts longer and is easier to maintain.

HEAVY DUTY BEARINGS
Most bearings are externally mounted, meaning easier maintenance without conveyor disassembly.

HEAD PULLEY
Lagged for positive drive without slippage.

INSPECTION DOORS
Hinged inspection doors located along the conveyor allow quick and easy access for maintenance and inspection.

Series ECTR Conveyor shown with top covers removed.

- ### SERIES ECTR FEATURES
- Enclosure keeps dust and emissions contained within the enclosure for a safer, cleaner work environment.
 - Inspection doors located at head and tail as well as throughout the enclosure to provide quick, simple access for inspection, cleanup and maintenance.
 - Allows for dusty, dirty or dangerous products to be moved without affecting the environment immediately surrounding the conveyor.
 - Can be supplied with or without bottom covers for a partially enclosed or totally enclosed system.
 - Utilizes CEMA standard components such as carrying & return idlers and head and tail pulleys.
 - Conveyor frame is built in 10' sections for easy handling, shipping and installation. Each 10' frame section is jig welded with structural angle flanges to ensure a strong, square fit consistently on every section.
 - Head & tail shafts are sealed with UHMW & felt seals to prevent excess dust and product from escaping through the shafts.

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DRAG CONVEYORS



Riley builds drag conveyors for performance and endurance under the roughest conditions.

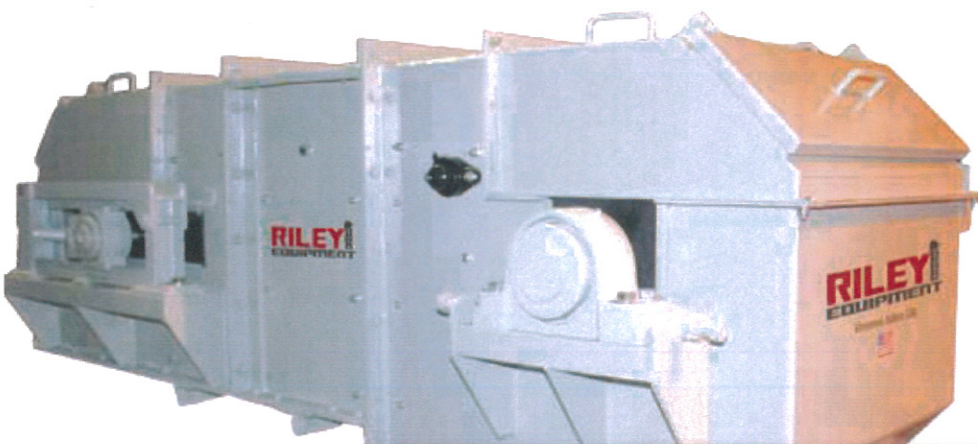
Engineered for efficiency and reliability, our conveyors offer key features that extend life and increase productivity.

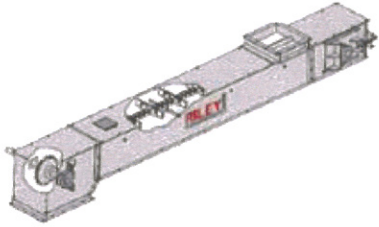
Knowing every business' demands are different, we offer drag conveyors in a range of styles and sizes to suit any

operation's needs. Custom sizes are available, just contact our Engineering department.

- Riley drag conveyors are built to the highest standard.
- They include pillow block bearings on all conveyors, ½" UHMW flights and grade 8 bolts countersunk on all of our liners.

- Riley flange connections are solid welded, not stitch welded like some of the competitors.
- Flighting on the Riley chain is welded on at a 10° angle, instead of straight up and down, to keep the chain for rising up on the grain.
- Riley return rails are capped with ¼" thick 400 Brinell steel to ensure a longer lifespan.
- Riley flight chains are colored at the splice to aid in finding the cottered connection when it comes time for servicing.
- Tension type screw take-ups for more durable service
- All Riley paddles are wiper style, to ensure better clean out and longer life, instead of every other or every 10th like the competition.

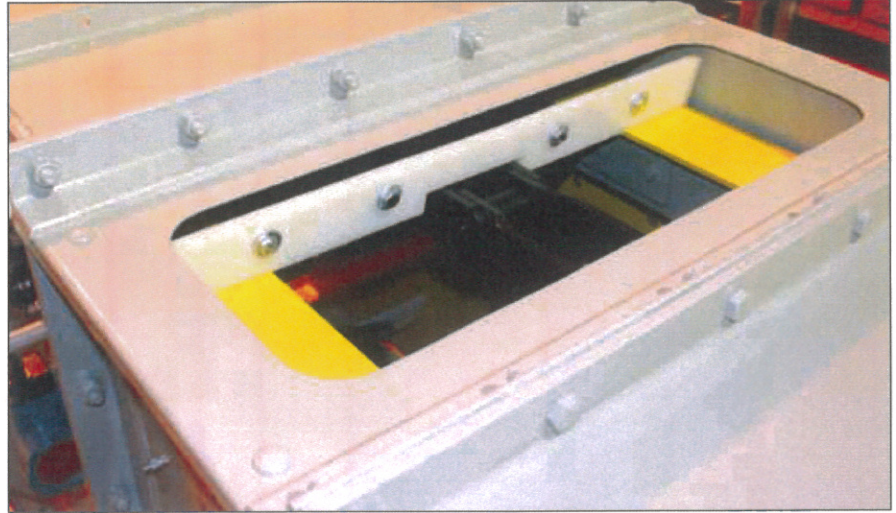
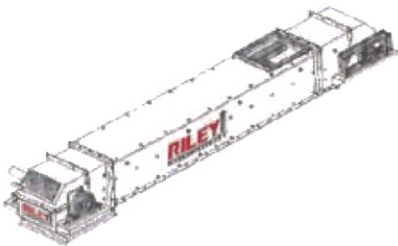




Easy-Flo Drag Conveyor Cut-Away

- Equipped with head, tail, trough, standard top inlet, chain, UHMW flights, and assembly bolts.
- Length is based on center of standard top inlet to center of the discharge.
- All shaft mounted drives consist of: shaft-mounted Class II reducer with bushings, sheaves and bushings, drive belts (2.0 Safety Factor), belt guard and motor mount.
- Conveyors are available in galvanized, painted black iron, powder coated and stainless steel construction.
- Conveyor sizes 7 x 13 thru 20 x 20 use Type I trough with UHMW return rollers. Conveyor sizes 26 x 20 and larger use Type II trough with a return rail system.
- Motor requirements and capacity are based upon LEVEL conveyors. Capacity may vary on inclined conveyors and those handling all other materials.
- Maximum incline using standard equipment is 5°. Conveyors can be inclined to a maximum of 10° using close spaced flights.
- Riley Equipment is not responsible for the capacity of conveyors on an incline, unless approved by our engineering department.

Sur-Flo Drag Conveyor



Easy-Flo/Sure-Flo Drag Conveyor Specifications

Size	Units	Chain Speed - FPM							
		100	110	120	130	140	150	160	170
7 x 13	BPH	1940	2130	2330	2520	2710	2910	3100	3290
	MTPH	53	58	63	69	74	79	84	90
12 x 13	BPH	3320	3650	3980	4320	4650	4980	5310	5640
	MTPH	90	99	108	118	127	136	144	153
16 x 13	BPH	4430	4870	5310	5750	6200	6640	7080	7520
	MTPH	121	133	144	156	169	181	193	205
9 x 17	BPH	3550	3900	4260	4610	4970	5320	5670	6030
	MTPH	97	106	116	125	135	145	154	164
12 x 17	BPH	4730	5200	5670	6150	6620	7090	7560	8040
	MTPH	129	141	154	167	180	193	206	219
16 x 17	BPH	6300	6930	7560	8190	8820	9450	10080	10710
	MTPH	171	189	206	223	240	257	274	291
16 x 20	BPH	7130	7840	8560	9270	9980	10690	11410	12120
	MTPH	194	213	233	252	272	291	310	330
20 x 20	BPH	8910	9800	10690	11590	12480	13370	14260	15150
	MTPH	242	267	291	315	340	364	388	412
22 x 20	BPH	9800	10780	11760	12740	13720	14700	15680	16660
	MTPH	267	293	320	347	373	400	427	453
26 x 20	BPH	11590	12740	13900	15060	16220	17380	18530	19690
	MTPH	315	347	378	410	441	473	504	536
28 x 20	BPH	12480	13720	14970	16220	17460	18710	19960	21210
	MTPH	340	373	407	441	475	509	543	577
32 x 20	BPH	14260	15680	17110	18530	19960	21380	22810	24230
	MTPH	388	427	466	504	543	582	621	659
26 x 26	BPH	15590	17150	18710	20270	21830	23390	24950	26500
	MTPH	424	467	509	552	594	636	679	721
28 x 26	BPH	16790	18470	20150	21830	23510	25190	26860	28540
	MTPH	457	503	548	594	640	685	731	777
30 x 26	BPH	17990	19790	21590	23390	25190	26980	28780	30580
	MTPH	490	539	587	636	685	734	783	832
32 x 32	BPH	25170	27690	30200	32720	35240	37750	40270	42780
	MTPH	685	753	822	890	959	1027	1096	1164

*Capacities based on whole grain at 15% moisture.

**Custom heights and widths available.

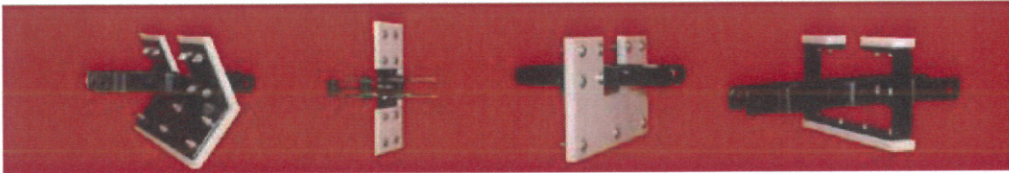


Curved and Straight Incline Drag Conveyors Standards

Model	Capacity*				Standard Construction Gauge				
	BPH	CFH	FPM	RPM	Head	Tail	Pans	Bottom	Side
9 x 9	500	625	47	21	10	10	12	10	12
	1,000	1,250	94	42					
	1,500	1,875	139	63					
	2,000	2,500	185	84					
12 x 12	2,000	2,500	101	33	10	10	10	10	10
	2,500	3,125	126	41					
	3,000	3,750	151	49					
17 x 17	4,000	5,000	99	28	10	10	10	7	10
	5,000	6,250	124	36					
	6,000	7,500	149	43					
	7,000	8,750	174	50					
24 x 20	7,000	8,750	106	21	7	7	7	7	10
	8,000	10,000	121	24					
	9,000	11,250	136	27					
	10,000	12,500	152	30					
32 x 20	10,000	12,500	110	22	7	7	7	7	10
	12,500	15,625	138	28					
	15,000	18,750	165	33					

*Capacities based on whole grain at 15% moisture.

Webster Chain Flight Options



Additional Features

- Fully welded chain
- All paddles are wiper style for better clean out and longer life
- Paddles at chain splice are different color for easy identification during maintenance
- Flights are more robust 1/2" minimum flight thickness
- Heavy-duty flight attachments are welded to chain at 10° angle to prevent chain from riding over grain ensuring maximum capacity
- All chain is shipped preassembled with flights attached.
- Bolted abrasion resistant steel side liner.
- Overlapping bottom for precise trough alignment.
- Custom flared by-pass hopper.
- Unique intake inlet fills center of material carrying area.
- Powder coated or painted to your specifications.
- Flame-cut fully split sprockets with hardened rim
- Overload plate to prevent grain from flooding the tail section



Incline Conveyor Standards

- Standard inlet (may be choke fed in some cases).
- Manual, electric, hydraulic, or pneumatic slide gates available.
- All steel chain engineered and designed for extended life and maximum working loads. Chain is either welded steel or roller bushed.
- Bearing support mount constructed of 1/4" plate and welded in place for maximum strength.
- Flight attachments are constructed of heavy plate steel and welded to chain.
- All head, tail, and trough sections are shipped fully assembled for fast field installation.
- Internal return pan is bolted and replaceable.
- Bottom splice plates for accurate alignment thru 12" models. Bolted bottom overlaps on 17" and larger.
- Bolted bottom trough section for maintenance and replacement.
- Flame cut steel, hardened rim C-hub sprocket. Split style is optional.
- Tension type screw take-up for more durable service
- Turned, ground, and polished shafts constructed of #1045 steel.
- Intermediate discharge slide gates available.
- Abrasion resistant bottoms, return pans and side liners are available in a variety of thicknesses.
- Curved and close tolerance tail section optional.



Super Inclined Drag Conveyors

Model	Units	Chain Speed - Feet per Minute			
		1	50	75	100
4 x 5	BPH	6.2	309	464	619
	CFH	7.7	387	580	773
5 x 7	BPH	10.8	538	807	1076
	CFH	13.5	673	1109	1345
6 x 9	BPH	16.5	827	1240	1654
	CFH	20.7	1034	1550	2067
7½ x 10	BPH	23.2	1162	1744	2325
	CFH	29.1	1453	2180	2906
7½ x 12	BPH	27.9	1395	2092	2790
	CFH	34.9	1744	2616	3488
9 x 10	BPH	27.8	137	2081	2775
	CFH	34.7	1734	2602	3469
9 x 12	BPH	33.3	1665	2498	3330
	CFH	41.6	2081	3122	4162
9 x 16	BPH	44.4	2220	3330	4440
	CFH	55.5	2775	4162	5550
9 x 20D	BPH	55.5	2775	4162	5550
	CFH	69.4	3469	5203	6938
9 x 24D	BPH	66.6	3330	4995	6660
	CFH	83.2	4162	6244	8325
9 x 32D	BPH	88.8	4440	6660	8880
	CFH	111.0	5550	8325	11100
12 x 16	BPH	58.8	2940	4410	5880
	CFH	73.5	3675	5512	7350
12 x 26D	BPH	88.2	4410	6615	8820
	CFH	110.2	5512	8269	11025
12 x 32D	BPH	117.6	5880	8820	11760
	CFH	147.0	7350	11025	14700

"D" in model number notes a double row chain. Capacities are based on free flowing granular product with standard inlet location in horizontal trough.



Experience a new standard of quality and service with Riley Equipment, a preferred designer and manufacturer of processing machinery and bulk material handling equipment for agriculture and a wide variety of industrial markets.

This is next-level design and fabrication of customized equipment to meet our customers' very specific requirements, in addition to a robust standard equipment line. We manufacture all products in-house under stringent quality controls to ensure proper alignment and fit in the field.

Riley Equipment, a division of LeMar Industries, offers a complete line of bucket elevators, distributors, spouting and accessories, drag conveyors and screw conveyors.

LeMar Industries is an agricultural as well as sand & gravel design and manufacturing operation providing: support towers, catwalks, temporary storage, transport conveyors, bulk weighers, drive over conveyors, open belt conveyors, grain reclaim service and super structures along with specialty fabricated equipment. The LeMar Industries family of companies also includes Hall Industries, a cutting-edge design and metal fabrication shop, and Midwest Bearing, a leading bearing and power transmission aftermarket supply house.



www.lemarindustries.com





BUCKET ELEVATORS



Riley Equipment's bucket elevator line is designed with the user in mind— commercial and farm-duty are available in painted, powder coated, galvanized or stainless steel finish. Built for easy seasonal maintenance, standard items are in place for safety precautions, and each weld is quality checked for optimal performance.

- Trunking flanges are welded solid inside and outside.
- All bucket elevators are equipped with pillow block bearings.
- Trunking components are fixture welded to ensure quick and easy construction in the field.
- Riley's gravity take-up boots are offered in 18", 24" and 30" pulleys as well as 36", 42" and 48" (which are the only three the competition offers).
- Head platforms wrap around the front of the head, giving ample clearance for service and inspection.
- 5' Removable doors on both sides of the up casing for quick installation and maintenance of belting and buckets. Option to go up to 10' doors on both sides of trunking.
- Access doors are located at the boot, discharge and pulley lagging area.
- A safety cable is standard on all head access doors.
- Heavy-duty motor mounts with torque arm anchorage points are standard.
- UHMW shaft seals keep moisture out and dust in.
- The Riley technical team is available 24/7 during peak season. High quality equipment and service is our standard.

Riley offers standard bucket elevators up to 60K bph, and custom sizes, up to 80K bph, are available to meet your specific need.

Features:

- Elevators can be built of stainless steel, galvanized steel, painted steel or powder coat finish (see below).
- Shaft made of #1045, turned, ground and polished steel. Boot shafts are drilled and tapped for optional motion monitor.
- Main head assembly has a 1/2" lip above the frame to provide a dust tight and weatherproof seal. Split removable bonnet for easy access.
- All head and boot bearings are factory installed pillow block bearing selected for best efficiency, longest life and maximum radial loads—torqued to proper specifications.
- Adjustable throat baffle for maximum discharge. Discharge spout can be furnished horizontal or on a 45° incline.
- Wear points are lined in the head section. Liner is available in urethane, ceramic or ceramic chipped urethane.
- Dust tight and weather proof shaft seals.
- Belting can be furnished in PVC or rubber.
- Trunking end flanges are continuously welded in a fixture to assure square and parallel trunking for easy field assembly.
- Designed so the trunking has adequate column strength for a "free standing" installation (guy cables or other lateral supports are required at 20'-0" max. intervals).
- Inspection and maintenance ports have gasket seals.
- Screw take-up is standard in the boot section. External gravity take-up is optional.
- Inlet hopper is standard on "up-side" of elevator.
- Many other options available: service platforms, ladders, safety cage, guy brackets and explosion relief vents.

Riley offers nine series of bucket elevators, each with several configurations, to match your facility requirements. Customization is available to meet your specific needs if they are not listed below:

Series	BPH	CFH	TPH	MTPH	Pulley RPM	Belt FPM
Mercury	1350	1688	40	37	113	326
Pluto	2650	3313	79	72	95	448
Mars	3000	3750	90	82	77	482
Venus	3500	4375	105	95	65	510
Neptune	4750	5938	142	129	65	510
Saturn	8500	10625	210	190	64	603
*Jupiter	15575	19475	472	729	60	660
*Galaxy S	14600	18170	442	401	56	711
*Galaxy SX	29200	36340	884	802	56	711

* Multi-row buckets available. Capacities up to 60K standard, build to suit up to 80K

LADDER AND SAFETY GATE

Riley ladders and safety gates are made of aluminum making them light weight, easy to handle and install. The self-opening ladder safety gate, equipped with a T-handle with keyed lock, includes a back panel to prevent access to ladder on back side.



OPTIONAL ACCESSORIES

Dura-Splice Durable Belt Fastener with "one size fits all" belts and pulleys. Each splice set joins a 2" wide belt area.

Elevator Head and Legging Explosion Relief Panels Relief panels release pressure from possible explosion. Safety cable prevents panel from falling. Each set includes four relief panels.

Elevator Belt Speed Monitor

The speed monitor mounts to the elevator boot shaft to detect slowdown in belt speed, indicating a plug situation. An alarm is sounded and/or the leg is shut down automatically. Available in Single Set Point and Dual Set Point, both in dust-tight and explosion proof models, less control cable and alarms.



Bucket Attachment Hardware

#1 Norway Elevator bucket bolts with nuts are sold (100) in 1" through 2" long, standard and fanged variety. 1/4" and 5/16" Lock Washers, Flat Washers and

Hex Nuts are available.

Elevator Boot Hopper Magnet High intensity magnet is mounted in elevator boot hopper to remove tramp metal. Quick release clamps are used for easy cleaning.

Elevator Belting PVC belting is available from stock for widths of 7", 10", 11", 13" and 14". Other widths of PVC as well as rubber belts are available.

Elevator Buckets

Elevator buckets are available in polyethylene and steel. Specifications required are length, width, number and spacing of holes and hole size.



Urethane Sheet High quality urethane sheet is stocked in 4 Ft. x 10 Ft. x 1/4" thickness with expanded metal backing. Variety includes: 1/4" Expanded Metal Backed Urethane, 1/4" Ceramic Chipped Urethane and Kryptane.

Motors Motors up to 150 HP are available from stock. Motors are 1725-1800 RPM 60 Hz. and 1450 RPM 50 Hz, three phase. Enclosures are TEFC or Explosion Proof, Class II, Group G.

Boot Shovel Pocket A boot shovel pocket is available on most bucket elevators. The shovel pocket has a hinged cover and a grate over the opening. The shovel pocket is located on the down leg side.



Pulleys Replacement elevator and conveyor pulleys are available in various types of construction; single disc, drum and winged. Specifications required are diameter, face width, shaft size, and crowned or flat face.

Pulley Lagging Heavy-duty slide lagging (SOF Style 5) slides into retainers which are welded onto the pulley. Replacement lagging is available in 6 Ft. long strips with retainers.

Gravity Take-Up Boot Gravity take-up for automatic belt tension is available on the Pluto series through the Jupiter series bucket elevators; and standard on all Galaxy models. Included is a weight box and alignment bolts for tracking the elevator belt.

Self Cleaning Boot Gravity take-up for automatic belt tension. Self cleaning style holds close clearance between boot bottom and cups at all times. Winged style pulley with shaft mounted on pillow block bearings.

Bucket Elevator Machinery Arm Mounts to the head platform.



RILEY EQUIPMENT



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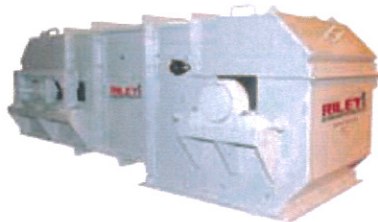


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LEMAR INDUSTRIES

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U-TROUGH SCREW CONVEYORS

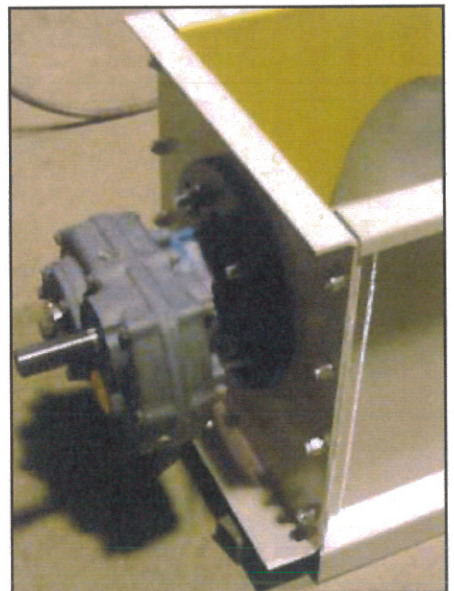


Riley Equipment's screw conveyor line offers a variety of options to satisfy your conveying needs safely and efficiently.

- U-Trough channels bi-product quickly and gently utilizing durable, true helicoidal manufactured screw conveyor.
- Standard sizes, up to 18-inches and 6600 bph, are at hand and larger sizes or customized construction are available.
- Pre-assembled and match-marked for simplified field installation.
- Easy access components result in timely service and maintenance.
- Standard models include angle

flanged U-trough, helicoid screw, style No. 226 hanger with wood bearing, (two) end plates, end ball bearing, tail shaft, coupling shafts, coupling bolts, galvanized trough covers, screw cover clamps, discharge spout and assembly bolts.

All screw conveyor drives consist of: Class II, steady load not exceeding motor HP rating for over 10 hours a day (moderate shock loads are allowable during 10 hours a day), screw conveyor reducer with adapter, CEMA drive shaft, sheaves and bushings, drive belts (2.0 Safety Factor), belt guard, and motor mount. The motor requirement is 1750 RPM.

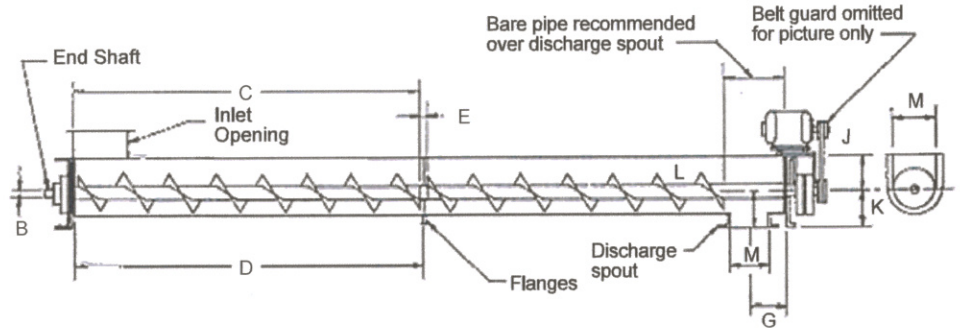


9" U-Trough 1000 BPH @ 162 RPM

Unassembled		Std. Flighting		XX Flighting	
Length	HP	Weight	Weight	Weight	Weight
10	3	291		347	
20	3	546		655	
30	3	801		963	
40	5	1056		1271	
50	5	1311		1579	
60	5	1566		1887	
70	5	1821		2195	
80	5	2076		2503	
90	5	2331		2811	
100	5	2586		3119	
110	5	2841		3427	
120	7.5	3096		3735	

Std. conveyor and material is 37 lbs/ft., XX is 43 lbs/ft.

HP	Class II Drive	Weight
3	TA1107H	195
5	TA1107H	195
7.5	TA1107H	195
10	TA2115H	269



Horizontal U-Trough Conveyor Specifications

A	SCR	B	C	D	E	G	J	K	L	M	TG	CG	FB	FT	P
9	9H306	1 ^{1/2}	9'-10"	10'-0"	2	8	6 ^{1/8}	7 ^{7/8}	7 ^{1/8}	10	14	14	3/16	3/32	2 ^{3/8}
9	9H412	2	9'-10"	10'-0"	2	8	6 ^{1/8}	7 ^{7/8}	7 ^{1/8}	10	14	14	3/8	3/16	2 ^{7/8}
12	12H408	2	11'-10"	12'-0"	2	10 ^{1/2}	7 ^{3/4}	9 ^{5/8}	8 ^{7/8}	13	12	14	1/4	1/8	2 ^{7/8}
12	12H512	2 ^{7/16}	11'-9"	12'-0"	3	10 ^{1/2}	7 ^{3/4}	9 ^{5/8}	8 ^{7/8}	13	12	14	3/8	3/16	3 ^{1/2}
14	14H508	2 ^{7/16}	11'-9"	12'-0"	3	11 ^{1/2}	9 ^{1/4}	10 ^{7/8}	10 ^{1/8}	15	12	14	1/4	1/8	3 ^{1/2}
14	14H614	3	11'-9"	12'-0"	3	11 ^{1/2}	9 ^{1/4}	10 ^{7/8}	10 ^{1/8}	15	12	14	7/16	7/32	4
16	16H610	3	11'-9"	12'-0"	3	13 ^{1/2}	10 ^{5/8}	12	11 ^{1/8}	17	12	14	5/16	5/32	4
16	16H614	3	11'-9"	12'-0"	3	13 ^{1/2}	10 ^{5/8}	12	11 ^{1/8}	17	12	14	7/16	7/32	4 ^{1/2}
18	16H610	3	11'-9"	12'-0"	3	14 ^{1/2}	12 ^{1/8}	13 ^{3/8}	12 ^{3/8}	19	12	14	5/16	5/32	4

A = Screw Diameter in Inches
 SCR = Screw Designation
 B = Coupling Diameter in Inches
 C = Length
 D = Length w/Flange
 E = Dimension in Inches

G = Dimension in Inches
 J = Dimension in Inches
 K = Dimension in Inches
 L = Dimension in Inches
 M = Dimension in Inches
 TG = Trough Gauge

CG = Cover Gauge
 FB = Flight Base Thickness
 FT = Flight Tip Thickness
 P = Pipe Size

12" U-trough 2200 BPH @ 150 RPM

Unassembled		Std. Flighting		XX Flighting	
Length	HP	Weight	Weight	Weight	Weight
12	5	553		609	
24	5	1042		1159	
36	5	1531		1709	
48	7.5	2020		2259	
60	7.5	2509		2809	
72	7.5	2998		3359	
84	10	3487		3909	
96	10	3976		4459	
108	10	4465		5009	
120	10	4954		5559	
132	15	5443		6109	
144	15	5932		6659	

Std. conveyor and material is 61 lbs/ft., XX is 66 lbs/ft.

HP	Class II Drive	Weight
5	TA1107H	195
7.5	TA1107H	195
10	TA2115H	269
15	TA2115H	269

14" U-trough 3500 BPH @ 141 RPM

Unassembled		Std. Flighting		XX Flighting	
Length	HP	Weight	Weight	Weight	Weight
12	5	644		742	
24	5	1220		1412	
36	7.5	1796		2082	
48	7.5	2372		2752	
60	10	2948		3422	
72	15	3524		4092	
84	15	4100		4762	
96	15	4676		5432	
108	20	5252		6102	
120	20	5828		6772	
132	20	6404		7442	
144	20	6980		8112	

Std. conveyor and material is 75 lbs/ft., XX is 82 lbs/ft.

HP	Class II Drive	Weight
5	TA1107H	195
7.5	TA1107H	195
10	TA2115H	269
15	TA3203H	367
20	TA3203H	367

16" U-trough 4800 BPH @ 131 RPM

Unassembled		Std. Flighting		XX Flighting	
Length	HP	Weight	Weight	Weight	Weight
12	5	780		882	
24	5	1470		1674	
36	7.5	2160		2466	
48	10	2850		3258	
60	15	3540		4050	
72	15	4230		4842	
84	15	4920		5634	
96	20	5610		6426	
108	20	6300		7218	
120	25	6990		8010	
132	25	7680		8802	
144	25	8370		9594	

Std. conveyor and material is 92 lbs/ft., XX is 100 lbs/ft.

HP	Class II Drive	Weight
5	TA1107H	195
7.5	TA1107H	195
10	TA2115H	269
15	TA3203H	367
20	TA3203H	367
25	TA4207H	468

18" U-trough 6600 BPH @ 126 RPM

Unassembled		Std. Flighting	
Length	HP	Weight	Weight
12	5	844	
24	7.5	1602	
36	10	2360	
48	15	3118	
60	15	3876	
72	20	4634	
84	20	5392	
96	25	6150	
108	25	6908	
120	30	7666	
132	30	8424	
144	30	9182	

Std. conveyor and material is 106 lbs/ft.

HP	Class II Drive	Weight
5	TA1107H	195
7.5	TA1107H	195
10	TA2115H	269
15	TA3203H	367
20	TA3203H	367
25	TA4207H	468
30	TA4207H	468

Listed specifications are based upon whole grains @ 15% moisture with a 45% trough fill. Motor requirements and capacity are based upon LEVEL conveyors. The capacity will vary on inclined conveyors and those handling all other materials. Riley Equipment is not responsible for the capacity of conveyors on an incline unless approved by our Engineering department.