

BUCKET ELEVATORS & ACCESSORIES



PHONE (785) 827-4491
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GRAIN BELT SUPPLY CO., INC.
SALINA, KANSAS

U.S. 1-800-255-2742
1-800-432-8292
1-800-447-0522



BUCKET ELEVATORS & ACCESSORIES

14000 to 20000 BPH Industrial Duty Bucket Elevators

STANDARD FEATURES

- High-speed one-piece elevator buckets (metal or plastic).
- Solid steel head and boot pulleys.
- Head pulley crowned, lagged and keyed.
- 10 ga. dust and weatherproofed head and vent cap.
- 7 ga. bolted steel boot with cleanout slides and two pockets.
- 12 ga. welded steel leg sections (Two piece construction).
- Full access inspection section.
- Jig built for easy field erection.
- Two boot pockets; feeds buckets uniformly up or down side.
- P.V.C. belt pre-punched.
- Dust seals on the boot shaft.
- Long lasting, high quality bearings.
- Adjustable throat plate.

OPTIONAL FEATURES

- Work platforms
- Distributor platforms
- Ladder
- Safety cage
- Rest platforms
- Explosion vents
- Wing type boot pulley
- Available in mild steel, stainless steel, or galvanized

SPECIFICATIONS

HEAD

10 ga., three piece construction, 1/4" expanded metal backed urethane lined front crown and discharge, 42" x 23" keyed and lagged pulley, 12" sq. inspection opening, dust seals on head shaft, adjustable throat plate.

BOOT

7 ga., bolted construction, 12" travel take-ups, two loading pockets, 3 15/16" shaft with Pillow Block Bearings, 42" x 23" pulley, 8" sq. inspection opening, dust seals on the boot shaft, removable clean out slides.

TRUNKING

Standard trunking available in 20', 10' and 5' lengths. 12 ga., two piece design, 15" x 26" cross section, inspection section with 10' bolt on side and two 26" x 30" inspection doors.

GENERAL

22" wide PVC belting, 20" x 8" plastic or steel CC style elevator cups.

MODEL 42B ELEVATOR LEG HORSE POWER AND SHAFT SIZE								
BPH Discharge Height/Ft.	14000 BJ 20x8 11.75 CC	15000 BJ 20x8 10.75 CC	16000 BJ 20x8 10.25 CC	17000 BJ 20x8 9.5 CC	18000 BJ 20x8 9 CC	19000 BJ 20x8 8.5 CC	20000 BJ 20x8 8.5 CC	Headshaft Diameter
RPM	63	63	63	63	63	63	66	
25	15	15	20	20	20	20	20	3 7/16"
30	20	20	20	20	25	25	25	
35	20	20	25	25	25	30	30	
40	25	25	25	30	30	30	40	3 15/16"
45	25	30	30	30	40	40	40	
50	30	30	40	40	40	40	40	
55	30	40	40	40	40	40	50	4 7/16"
60	40	40	40	40	50	50	50	
65	40	40	40	50	50	50	50	
70	40	40	50	50	50	60	60	
75	40	50	50	50	60	60	60	
80	50	50	50	60	60	60	75	4 15/16"
85	50	50	60	60	60	75	75	
90	50	60	60	60	75	75	75	
95	60	60	60	75	75	75	75	
100	60	60	75	75	75	75	100	5 7/16"
105	60	60	75	75	75	100	100	
110	60	75	75	75	100	100	100	
115	75	75	75	75	100	100	100	
120	75	75	75	100	100	100	100	
125	75	75	100	100	100	100	100	
130	75	75	100	100	100	100	100	
135	75	100	100	100	100	100	125	
140	75	100	100	100	100	125	125	
145	100	100	100	100	100	125	125	
150	100	100	100	100	125	125	125	
155	100	100	100	100	125	125	125	
160	100	100	100	125	125	125	125	
165	100	100	125	125	125	125	150	5 15/16"
170	100	100	125	125	125	125	150	
175	100	100	125	125	125	150	150	
180	100	125	125	125	125	150	150	
185	100	125	125	125	150	150	150	
190	125	125	125	125	150	150	150	
195	125	125	125	150	150	150	150	
200	125	125	125	150	150	150	200	6 1/2"
205	125	125	125	150	150	150	200	
210	125	125	150	150	150	200	200	
215	125	125	150	150	150	200	200	
220	125	150	150	150	200	200	200	

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BUCKET ELEVATORS & ACCESSORIES

8000 to 15000 BPH Stock Industrial Duty Bucket Elevators

STANDARD FEATURES

- High-speed one-piece elevator buckets (metal or plastic).
- Solid steel head and boot pulleys.
- Head pulley crowned, lagged and keyed.
- 10 ga. dust and weather-proofed head and vent cap.
- 7 ga. bolted steel boot with cleanout slides and two pockets.
- 12 ga. welded steel leg sections (Two piece construction).
- Full access inspection section.
- Jig built for easy field erection.
- Two boot pockets; feeds buckets uniformly up or down side.
- P.V.C. belt pre-punched.
- Dust seals on the boot shaft.
- Long lasting, high quality bearings.
- Adjustable throat plate.

OPTIONAL FEATURES

- Work platforms
- Distributor platforms
- Ladder
- Safety cage
- Rest platforms
- Explosion vents
- Wing type boot pulley
- Available in mild steel, stainless steel, or galvanized

SPECIFICATIONS

HEAD

10 ga., three piece construction, 1/4" expanded metal backed urethane lined front crown and discharge, 42" x 19" keyed and lagged pulley, 12" sq. inspection opening, dust seals on head shaft, adjustable throat plate.

BOOT

7 ga., bolted construction, 12" travel take-ups, two loading pockets, 3 7/16" shaft with Pillow Block Bearings, 42" x 19" pulley, 8" sq. inspection opening, dust seals on the boot shaft, removable clean out slides.

TRUNKING

Standard trunking available in 20', 10' and 5' lengths. 12 ga., two piece design, 15" x 22" cross section, inspection section with 10" bolt on side and two 22" x 30" inspection doors.

GENERAL

18" wide PVC belting, 16" x 7" or 16" x 8" Grain Belt plastic or steel CC style elevator cups.

MODEL 42A ELEVATOR LEG HORSE POWER AND SHAFT SIZE

BPH Discharge Height/Ft.	8000 16 x 7 10.75 CC	9000 16 x 7 9.125 CC	10000 16 x 7 8.625 CC	11000 16 x 8 9.125 CC	12000 BJ 16x8 10.625 CC	13000 BJ 16x8 9.875 CC	14000 BJ 16x8 9.125 CC	15000 BJ 16x8 8.5 CC	Headshaft Diameter
RPM	63	63	63	63	63	63	63	63	
25	10	10	10	15	15	15	15	15	2 15/16"
30	10	15	15	15	15	15	20	20	3 7/16"
35	15	15	15	15	20	20	20	20	
40	15	15	20	20	20	20	25	25	
45	15	20	20	20	25	25	25	30	
50	20	20	20	25	25	25	30	30	
55	20	20	25	25	30	30	30	40	3 15/16"
60	20	25	25	30	30	30	40	40	
65	20	25	25	30	30	40	40	40	
70	25	25	30	30	40	40	40	40	
75	25	30	30	40	40	40	40	50	4 7/16"
80	25	30	40	40	40	40	50	50	
85	30	30	40	40	40	50	50	50	
90	30	40	40	40	50	50	50	60	
95	30	40	40	40	50	50	60	60	
100	40	40	40	50	50	50	60	60	
105	40	40	40	50	50	60	60	60	
110	40	40	50	50	60	60	60	75	4 15/16"
115	40	40	50	50	60	60	75	75	
120	40	50	50	60	60	60	75	75	
125	40	50	50	60	60	75	75	75	
130	40	50	50	60	60	75	75	75	
135	50	50	60	60	75	75	75	100	5 7/16"
140	50	50	60	60	75	75	75	100	
145	50	50	60	75	75	75	100	100	
150	50	60	60	75	75	75	100	100	
155	50	60	60	75	75	100	100	100	
160	50	60	75	75	75	100	100	100	
165	60	60	75	75	100	100	100	100	
170	60	60	75	75	100	100	100	100	
175	60	60	75	75	100	100	100	100	
180	60	75	75	100	100	100	100	125	
185	60	75	75	100	100	100	100	125	
190	60	75	75	100	100	100	125	125	
195	60	75	75	100	100	100	125	125	
200	75	75	100	100	100	100	125	125	
205	75	75	100	100	100	125	125	125	
210	75	75	100	100	100	125	125	125	
215	75	75	100	100	100	125	125	125	
220	75	100	100	100	125	125	125	-	

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BUCKET ELEVATORS & ACCESSORIES

4000 to 8000 BPH Industrial Duty Bucket Elevators

STANDARD FEATURES

- High-speed one-piece elevator buckets (metal or plastic).
- Solid steel head and boot pulleys.
- Head pulley crowned, lagged and keyed.
- 12 ga. dust and weatherproofed head and vent cap.
- 10 ga. steel boot with cleanout slides and two pockets.
- 14 ga. welded steel leg sections (Two piece construction).
- Full access inspection section.
- Jig built for easy field erection.
- Two boot pockets; feeds buckets uniformly up or down side.
- P.V.C. belt pre-punched.
- Boot shaft bearings covered.
- Long lasting, high quality bearings.
- Adjustable throat plate.

OPTIONAL FEATURES

- Work platforms
- Distributor platforms
- Ladder
- Safety cage
- Rest platforms
- Explosion vents
- Wing type boot pulley
- Available in mild steel, stainless steel, or galvanized

ELEVATOR LEG HORSE POWER AND SHAFT SIZE										
BPH	4000	4500	5000	5500	6000	6500	7000	7500	8000	
Discharge Height/Ft.	13 x 6 11" CC	13 x 6 9¾" CC	13 x 6 8¾" CC	13 x 6 8" CC	13 x 7 9½" CC	13 x 7 8½" CC	13 x 7 8" CC	13 x 7 7½" CC	13 x 7 7" CC	Headshaft Diameter
RPM	73	73	73	73	73	73	73	73	73	
25	5	5	5	7½	7½	7½	7½	7½	10	2 7/16"
30	5	7½	7½	7½	7½	7½	10	10	10	2 15/16"
35	7½	7½	7½	7½	10	10	10	10	15	
40	7½	7½	10	10	10	10	15	15	15	
45	7½	10	10	10	15	15	15	15	15	
50	10	10	10	15	15	15	15	15	20	
55	10	10	15	15	15	15	15	20	20	3 7/16"
60	10	15	15	15	15	15	20	20	20	
65	10	15	15	15	15	20	20	20	20	
70	15	15	15	15	20	20	20	20	25	
75	15	15	15	20	20	20	20	25	25	
80	15	15	20	20	20	20	25	25	25	3 15/16"
85	15	15	20	20	20	25	25	25	30	
90	15	20	20	20	25	25	25	30	30	
95	15	20	20	20	25	25	30	30	30	
100	20	20	20	25	25	25	30	30	30	
105	20	20	20	25	25	30	30	30	40	3 15/16"
110	20	20	25	25	25	30	30	40	40	
115	20	20	25	25	30	30	40	40	40	
120	20	25	25	25	30	30	40	40	40	
125	20	25	25	30	30	40	40	40	40	
130	20	25	25	30	30	40	40	40	40	3 15/16"
135	25	25	30	30	40	40	40	40	50	
140	25	25	30	30	40	40	40	40	50	
145	25	25	30	40	40	40	40	50	50	
150	25	30	30	40	40	40	40	50	50	
155	25	30	30	40	40	40	50	50	50	
160	25	30	40	40	40	40	50	50	50	
165	25	30	40	40	40	50	50	50	50	
170	30	30	40	40	40	50	50	50	-	
175	30	30	40	40	40	50	50	50	-	
180	30	40	40	40	50	50	50	-	-	

4000 TO 8000 BPH STOCK INDUSTRIAL BUCKET ELEVATOR SPECIFICATIONS

HEAD

12 ga., three piece construction, ¼" expanded metal backed urethane lined front crown and discharge, 30" x 15" keyed and lagged pulley, 12" sq. inspection opening, dust seals on head shaft, adjustable throat plate.

BOOT

10 ga., bolted construction, 12" travel take-ups, two loading pockets, 2 7/16" shaft, 30" x 15" pulley, 8" sq. inspection opening, dust covers over bearings, removable clean out slides.

TRUNKING

14 ga., two piece design, 13" x 18" cross section, inspection section with 10' bolt on side and two 18" x 30" inspection doors.

GENERAL

14" wide PVC belting, 13" x 6" or 13" x 7" Grain Belt plastic or steel CC style elevator cups.

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BUCKET ELEVATORS & ACCESSORIES

500 to 3500 BPH Heavy Duty Bucket Elevators

Grain Belt Bucket Elevators have been designed and engineered for handling your bulk material.

STANDARD FEATURES

- High speed one-piece elevator buckets (metal or plastic).
- Quality ball bearings used throughout.
- 12 ga. dust and weatherproofed head and vent cap.
- 12 ga. bolt together boot with cleanout slides and one pocket.
- 14 ga. welded steel leg sections (Two-piece construction).
- Jig built for easy field erection.
- Solid steel head and boot pulleys.
- Head pulley crowned, lagged and keyed.
- Adjustable throat plate.
- P.V.C. belt pre-punched.
- Full access inspection section.

OPTIONAL FEATURES

- Work platforms
- Distributor platforms
- Ladder
- Safety cage
- Rest platforms
- Explosion vents
- Wing type boot pulley
- Available in mild steel, stainless steel, or galvanized

ELEVATOR LEG HORSE POWER AND SHAFT SIZE								
BPH	500	1000	1500	2000	2500	3000	3500	Headshaft Diameter
Discharge Height/Ft.	9 x 5 14" CC	9 x 5 12" CC	9 x 5 8" CC	9 x 5 6" CC	9 x 6 7" CC	9 x 6 7" CC	9 x 6 LP 5" CC	
RPM	55	90	90	90	95	110	90	1 15/16"
20	1	1	1 1/2	2	2	3	3	
25	1	1	1 1/2	2	3	3	5	
30	1	1 1/2	2	3	3	5	5	
35	1	1 1/2	2	3	5	5	5	
40	1	2	3	5	5	5	7 1/2	
45	1	2	3	5	5	7 1/2	7 1/2	
50	1 1/2	3	5	5	7 1/2	7 1/2	7 1/2	
55	1 1/2	3	5	5	7 1/2	7 1/2	7 1/2	
60	1 1/2	3	5	5	7 1/2	7 1/2	10	
65	1 1/2	3	5	5	7 1/2	7 1/2	10	
70	1 1/2	3	5	7 1/2	7 1/2	10	10	
75	1 1/2	3	5	7 1/2	7 1/2	10	10	
80	2	5	5	7 1/2	10	10	15	
85	2	5	5	7 1/2	10	10	15	
90	2	5	7 1/2	7 1/2	10	15	15	
95	2	5	7 1/2	7 1/2	10	15	15	
100	2	5	7 1/2	10	10	15	15	
105	2	5	7 1/2	10	10	15	15	
110	3	5	7 1/2	10	15	15	15	
115	3	5	7 1/2	10	15	15		
120	3	5	7 1/2	10	15	15		

500 TO 3500 BPH STOCK HEAVY-DUTY BUCKET ELEVATOR SPECIFICATIONS

HEAD

12 ga., two piece construction, 1/4" expanded metal backed urethane lined front crown and discharge, 16" x 11" keyed and lagged pulley, 12" sq. & 10" sq. inspection openings, dust seals on head shaft, adjustable throat plate.

BOOT

12 ga., bolted construction, 9" travel take-ups, one loading pocket, 1 15/16" shaft, 16" x 11" pulley, 8" sq. inspection opening, removable clean out slides.

TRUNKING

Standard trunking available in 20', 10' and 5' lengths. 14 ga., two piece design, 10" x 13" cross section, 1 1/4" angle flanges, inspection section with 10' bolt on side and two 11" x 30" inspection doors.

GENERAL

10" wide PVC belting, 9" x 5" and 9" x 6" Grain Belt steel or plastic CC style elevator cups.

**We will custom
manufacture any
bucket elevator to
your specifications.**

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BUCKET ELEVATORS & ACCESSORIES

Fertilizer Bucket Elevators

SPECIFICATIONS (Basic Model All Capacities)

- Stainless steel construction.
- All ball bearings.
- 12 ga. dust and watertight head with flanged stub for vent.
- 12 ga. bolt together boot with cleanout slides and one pocket.
- 14 ga. flanged trunking (two piece construction).
- Steel head pulley lagged and keyed to head shaft.
- Steel slatted boot pulley.
- Adjustable discharge throat plate.
- Inspection and access doors.
- PVC belt punched for cups.
- Grain Belt plastic or stainless steel buckets.
- Stainless steel elevator bolts.

	20 Ton/Hr.	40 Ton/Hr.	60 Ton/Hr.	100 Ton/Hr.
Pulley Diameter	12"	12"	16"	24"
R. P. M	100	100	86	72
Cup Size	7" x 4"	7" x 5"	9" x 5"	9" x 6"
Cup Spacing	10"	8"	8"	10"
Belt Width & Strength	8" x 200 lbs.	8" x 200 lbs.	10" x 200 lbs.	10" x 270 lbs.
Head Shaft Diameter	1-7/16"	1-7/16"	1-15/16"	2-7/16"
Boot Shaft Diameter	1-3/16"	1-3/16"	1-7/16"	1-15/16"
Take-up Travel	9"	9"	9"	9"
Trunking Dimensions	12" x 28"	12" x 28"	13" x 34"	13" x 44"

HORSEPOWER REQUIREMENTS				
Discharge Height	Tons Per Hour			
	20	40	60	100
20 ft.	1 h.p.	1½ h.p.	2 h.p.	3 h.p.
25 ft.	1 h.p.	1½ h.p.	2 h.p.	5 h.p.
30 ft.	1 h.p.	2 h.p.	3 h.p.	5 h.p.
35 ft.	1 h.p.	2 h.p.	3 h.p.	5 h.p.
40 ft.	1½ h.p.	3 h.p.	5 h.p.	7½ h.p.
45 ft.	1½ h.p.	3 h.p.	5 h.p.	7½ h.p.
50 ft.	1½ h.p.	3 h.p.	5 h.p.	7½ h.p.
55 ft.	1½ h.p.	3 h.p.	5 h.p.	7½ h.p.
60 ft.	2 h.p.	5 h.p.	5 h.p.	10 h.p.

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BUCKET ELEVATORS & ACCESSORIES

Grain Belt Catwalk



SPECIFICATIONS

- Heavily reinforced welded steel construction.
- 3" channel frame.
- Deck made of 3.14 expanded metal grate.
- 1½" square tubing handrail and posts 42" high with kick plate.
- 3" x 2" x 3/16" angle iron cross members to support catwalk and make snug fit to elevator.
- Opening in decking provided for easy access from ladder.
- Meets OSHA requirements.



All Steel Ladder and Cage

Cage

- 1/8" x 1½" stringers.
- 3/16" x 2" hoops.
- 5' or 10' sections.
- 28" inside diameter allows plenty of room to climb.
- Flared sections available in 5' lengths.

Meets OSHA requirements.

Ladder

- 1/4" x 2" flat side rails.
- 3/4" round rungs on 12" centers.
- Complete with splice bars, mounting brackets, and bolts for erection.
- Wall mounting brackets supplied for installation for each 10 ft. of ladder.

REST PLATFORMS ALSO AVAILABLE. PLEASE INQUIRE.

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BUCKET ELEVATORS & ACCESSORIES

Grain Belt Drag Conveyors

Grain handlers who are concerned about higher grain standards, and fast, efficient movement of grain with less HP should consider the Grain Belt Drag Conveyor advantages:

- Because grain is moved in a mass, there is very little metal-to-grain contact, therefore breakage is almost nonexistent.
- The mass movement of grain nearly eliminates separation of materials.
- Grain Belt conveyors require 50% or less H.P. when compared to a screw conveyor.
- Eliminates dust and moisture problems because the conveyor is enclosed and sealed.
- Because of their lower profile, the Grain Belt conveyors will take less space per bushel conveyed.
- Because the conveyors are made of heavy gauge materials, the user has a dependable, trouble-free machine with an extra long life.

Standard Features

Among standard features you can count on are: flame hardened steel sprockets, heavy duty ball bearings, 12 gauge metal trough, 14 gauge flat cover, stress proof shafts, 1/4" UHMW paddles mounted on heavy-duty chain.

Conveyor Assembly

All parts are jig welded to assure accuracy, interchangeability, and field alignment.

Options When You Need Them

Available to meet your specific requirements, our options include: roller bearings, 3/8" UHMW (ultra high molecular weight) paddles, and trough liners with either UHMW or abrasion resistant steel plate.

Incline Conveyor operates up to a 45° angle.

Assistance and Consultation

We have the staff and means available to assist in evaluating all types of grain handling needs. Flexibility in both design and manufacturing enables us to produce Grain Handling Systems that will fit your operation.

Bent sections available up to 45°.

IMPORTANT: Covers are removed for illustration purposes only. Do not engage units without the covers properly installed.

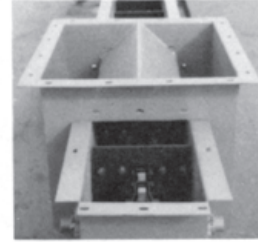
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BUCKET ELEVATORS & ACCESSORIES



GRAIN BELT DRAG CONVEYORS – FLAT BOTTOM

Capacity Table

Model	Units	Speed Feet Per Minute						
		1	75	100	125	150	175	200
9-10	BPH	21	1575	2100	2620	3150	3670	4200
	CFH	26.25	1960	2625	3280	3930	4590	5250
12-14	BPH	42	3150	4200	5250	6300	7350	8400
	CFH	52.5	3940	5250	6560	7870	9180	10,500
16-14	BPH	56	4200	5600	7000	8400	9800	11,200
	CFH	70	5250	7000	8750	10,500	12,250	14,000
16-16	BPH	61.2	4590	6120	7650	9180	10,710	12,240
	CFH	76.5	5737	7650	9562	11,475	13,387	15,300
16-18	BPH	73.3	5497	7330	9162	10,995	12,827	14,660
	CFH	91.6	6870	9160	11,450	13,740	16,030	19,320
16-20	BPH	87.8	6580	8780	10,970	13,170	15,360	17,560
	CFH	109.8	8235	10,980	13,725	16,470	19,200	21,960
20-20	BPH	103	7725	10,300	12,870	15,450	18,025	20,600
	CFH	128.7	9658	12,870	16,050	19,300	22,500	25,740
24-24	BPH	149.4	11,205	14,950	18,675	22,410	26,145	29,880
	CFH	180	13,500	18,000	22,500	27,000	31,500	36,000
36-30	BPH	299.5	22,462	29,950	37,437	44,925	52,412	59,900
	CFH	374.4	28,080	37,440	46,800	56,160	65,520	74,880

GRAIN BELT INCLINE CONVEYORS – FLAT BOTTOM

Capacity Table

Model	Units	Speed Feet Per Minute						
		1	75	100	125	150	175	200
12-14	BPH	22	1650	2200	2750	3300	3850	4400
	CFH	27	2025	2700	3375	4050	4725	5400
16-16	BPH	30.4	2280	3040	3800	4540	5320	6080
	CFH	38	2850	3800	4750	5700	6650	7600
18-26	BPH	54	4050	5400	6750	8100	9450	10,800
	CFH	67.5	5060	6750	8430	10,120	11,810	13,500
24-26	BPH	72	5400	7200	9000	10,800	12,600	14,400
	CFH	90	6750	9000	11,250	13,500	15,750	18,000
30-26	BPH	115.2	8640	11,500	14,400	17,280	20,160	23,040
	CFH	144	10,800	14,400	18,000	21,600	25,200	28,800
42-30	BPH	154	11,550	15,400	19,250	23,100	26,950	30,800
	CFH	192.5	14,437	19,250	24,062	28,875	33,687	38,500

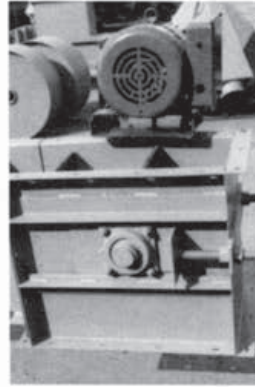
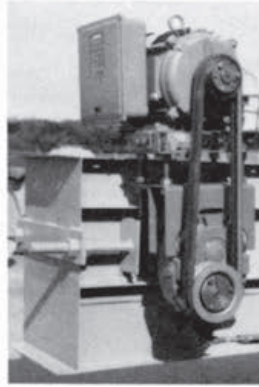
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BUCKET ELEVATORS & ACCESSORIES



GRAIN BELT DRAG CONVEYORS – ROUND BOTTOM
Capacity Table

Model	Units	Speed Feet Per Minute						
		1	75	100	125	150	175	200
9RB	BPH	13	975	1300	1625	1950	2275	2600
	CFH	16.3	1222	1630	2038	2445	2852	3260
12RB	BPH	25.3	1898	2530	3162	3795	4427	5060
	CFH	31.4	2353	3137	3921	4705	5490	6274
14RB	BPH	37.5	2812	3750	4687	5625	6562	7500
	CFH	46.5	3488	4650	5812	6975	8138	9300
16RB	BPH	43.5	3264	4352	5440	6528	7616	8704
	CFH	54.4	4080	5440	6800	8160	9520	10,880
18RB	BPH	57.5	4313	5750	7188	8625	10,062	11,500
	CFH	71.3	5348	7130	8913	10,695	12,478	14,260
20RB	BPH	69.1	5182	6910	8638	10,365	12,093	13,820
	CFH	85.7	6426	8570	10,710	12,853	14,995	17,137
24RB	BPH	118	8850	11,800	14,750	17,700	20,650	23,600
	CFH	146.3	10,974	14,632	18,290	21,948	25,606	29,642

Above capacities based on horizontal conveyor 100% loaded with free-flowing small grains. Capacity and speeds will vary with other materials and inclined units. Consult Grain Belt for such applications.

GRAIN BELT INCLINE CONVEYORS – ROUND BOTTOM
Capacity Table

Model	Units	Speed Feet Per Minute						
		1	75	100	125	150	175	200
9RB	BPH	8.1	607	810	1012	1215	1418	1620
	CFH	10.1	757	1100	1262	1515	1767	2020
12RB	BPH	15.6	1170	1560	1950	2340	2730	3120
	CFH	19.6	1470	1960	2450	2940	3430	3920

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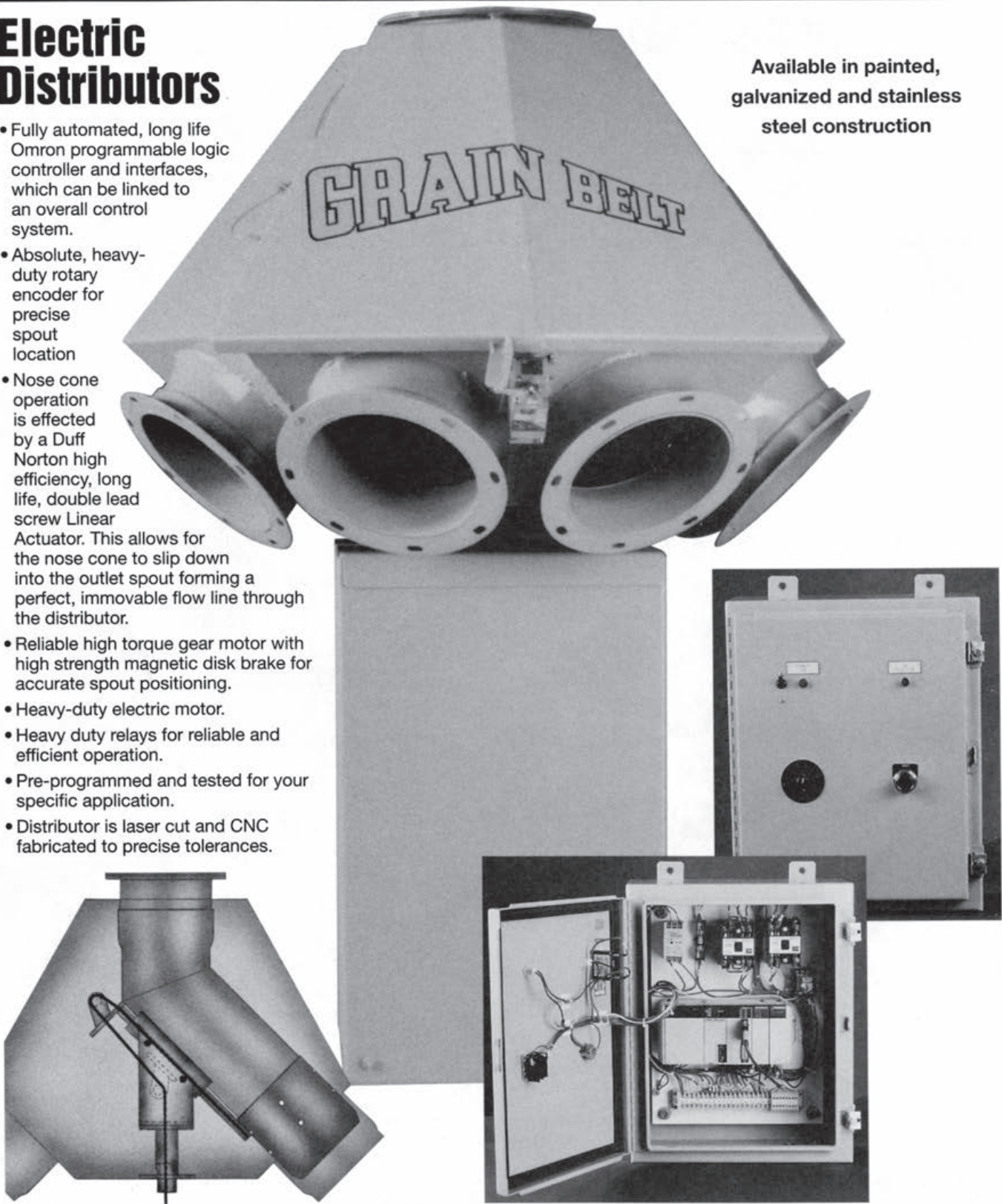


BUCKET ELEVATORS & ACCESSORIES

Electric Distributors

- Fully automated, long life Omron programmable logic controller and interfaces, which can be linked to an overall control system.
- Absolute, heavy-duty rotary encoder for precise spout location
- Nose cone operation is effected by a Duff Norton high efficiency, long life, double lead screw Linear Actuator. This allows for the nose cone to slip down into the outlet spout forming a perfect, immovable flow line through the distributor.
- Reliable high torque gear motor with high strength magnetic disk brake for accurate spout positioning.
- Heavy-duty electric motor.
- Heavy duty relays for reliable and efficient operation.
- Pre-programmed and tested for your specific application.
- Distributor is laser cut and CNC fabricated to precise tolerances.

Available in painted, galvanized and stainless steel construction



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BUCKET ELEVATORS & ACCESSORIES

Grain Belt Distributors

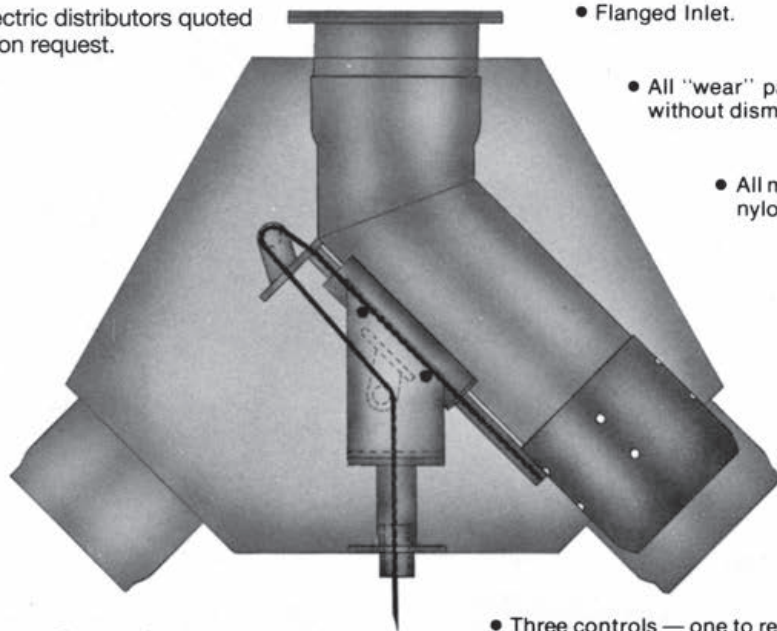
Built to last! Careful construction of a proven design offers you a distributor that will be working for you years from now. Compact...it will fit into existing facilities where others won't.

- Large inspection door provides complete access to Distributor Spout mechanism.
- 45°
- Space savers
- Sealed flow
- For tight space applications
- Positive lock flow



Available in 45° and 60° flow.

Electric distributors quoted upon request.



- Flanged Inlet.

- All "wear" parts are easily replaced without dismantling the entire distributor.

- All moving parts operate on non-corrosive nylon guides and pulleys.

Retractable Positioning Sleeve slips down into outlet spout forming a perfect, **immovable** flow line through the distributor.

- No drift with the Positioning Sleeve — eliminates leakage.

Nylon buttons provide positive, non-corrosive guides for Positioning Sleeve.

- Flanged Outlets are optional.

- Three controls — one to retract spring-loaded Positioning Sleeve and two for turning Distributor Spout — may be operated from anywhere in the area utilizing control cable and pulleys.

- Bottom reinforced with angle for added strength and durability.

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BUCKET ELEVATORS & ACCESSORIES

Grain Belt Distributors

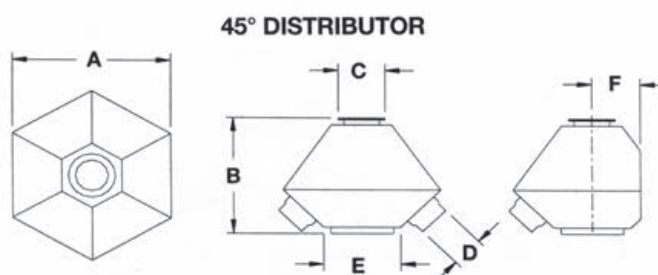
- Laser cut fabrication of 7 gauge steel top and bottom to 14 gauge housing assures a weather and dust tight distributor. (Heavier gauges available for special applications).
- The unit-to-unit and part-to-part consistency achieved with Grain Belts jig construction makes initial installation and replacement of component parts an extremely simple operation.
- A high quality, durable painted finish on both inside and outside further guards against rust and corrosion.
- Distributor may be suspended from above or supported from below.



45° DISTRIBUTOR DIMENSIONS

Dia.	No. of Holes Flat Black	No. of Holes Full Round	A	B	C	D	E	F
6"	-	6	29½	23½	6	6	14¼	-
	6	8	26½	21¼	6	6	14¼	5½
	8	10	32½	24½	6	6	20¼	8½
	10	12	38½	27½	6	6	26¼	11¾
8"	-	6	29½	24	8	8	14¼	-
	6	8	33½	25¾	8	8	18	9
	8	10	40	29¼	8	8	25	12¾
	10	12	47¼	32¾	8	8	32¼	14½
10"	-	6	33½	26½	10	10	15¾	-
	6	8	39½	29¼	10	10	21¾	8½
	8	10	49½	34¼	10	10	31¾	15½
	10	12	55	37¼	10	10	37	21
12"	-	6	49¾	35¼	12	12	29	-
	6	8	46	33¼	12	12	25	9¾
	8	10	55½	38	12	12	34¾	14¾
	10	12	64¾	42¾	12	12	44	19¾
14"	-	6	48	34	14	14	25	-
	6	8	52	36½	14	14	28½	11
	8	10	63	42¾	14	14	39½	20
	10	12	75¾	47¼	14	14	49½	28

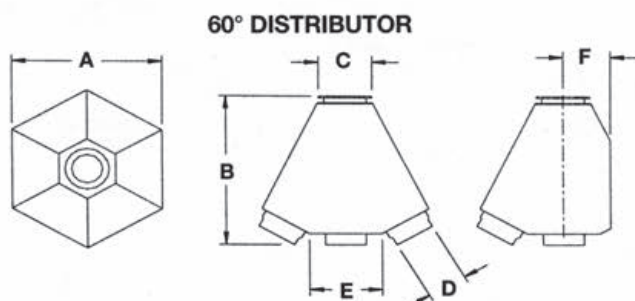
- Notes: 1) All dimensions are in inches
 2) Dimensions "E" and "A" are taken across the flats
 3) All dimensions subject to change without notice
 4) Other sizes available upon request



45° DISTRIBUTOR

60° DISTRIBUTOR DIMENSIONS

Dia.	No. of Holes Flat Black	No. of Holes Full Round	A	B	C	D	E	F
6"	-	6	25	27¼	6	6	14	7
	6	8	29	28¾	6	6	14	8
	8	10	34	31¼	6	6	16	10
	10	12	36	34	6	6	20	12
8"	-	6	32¾	31¾	8	8	14½	-
	6	8	36½	35½	8	8	18	7
	8	10	43½	41½	8	8	25	12¾
	10	12	52½	49½	8	8	34¼	15½
10"	-	6	37¾	36¼	10	10	19¾	-
	6	8	34½	40	10	10	22	14
	8	10	53¾	60	10	10	31¾	31½
	10	12	62¼	56¾	10	10	38¼	17
12"	-	6	55½	51½	12	12	30¼	12½
	6	8	56½	51¾	12	12	30¼	14¼
	8	10	64	58¾	12	12	38½	-
	10	12	67	64¼	12	12	44	20
14"	-	6	37	44	14	14	20½	-
	6	8	51	53	14	14	32	26
	8	10	60	62	14	14	43	28
	10	12	70	72	14	14	56	30



60° DISTRIBUTOR

- Notes: 1) All dimensions are in inches
 2) Dimensions "E" and "A" are taken across the flats

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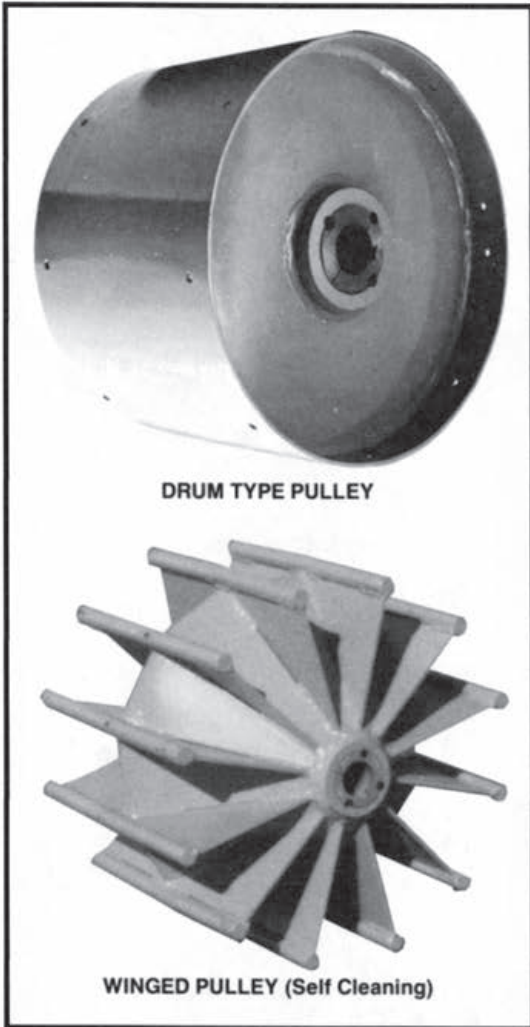
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BUCKET ELEVATORS & ACCESSORIES

Grain Belt Steel Pulleys



DRUM TYPE PULLEY

WINGED PULLEY (Self Cleaning)

STANDARD FEATURES:

- All Steel Construction
- All Welds Continuous
- Weld-On Hubs
- Crown Faced
- Prepunched Rim for Bolting On Lagging

Our pulleys are all welded mild steel construction assuring a good strong pulley for tough usage and long service. They are rolled and crowned on modern equipment and jig fabricated to provide a uniform, round, well manufactured pulley.

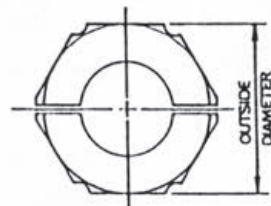
All pulleys are fabricated with two heavy steel discs, heavy rim, and hub to accommodate interchangeable bushings. The rim is crowned through crowning rolls which are tapered 1/8" to the foot. STOCKED and SHIPPED CROWN FACE unless specified otherwise.

OPTIONAL LAGGING. Standard lagging is a two-ply Ruff-Top Belt fastened to the face of the pulley with special flat head bolts and self tapping screws. Or, may be lagged with Holz Slide-Lag (see p. 15 for information).

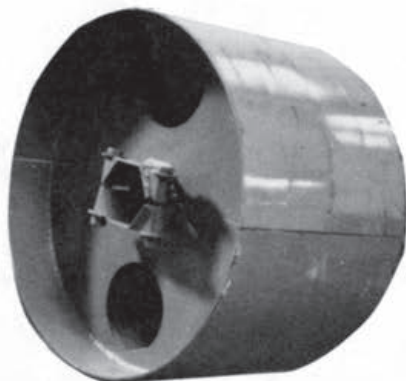


STEEL SPLIT PULLEYS

DIMENSIONS OF BUSHINGS



SYMBOL K-WK & WL



STEEL SPLIT PULLEY

TYPE OF BUSHING	MAXIMUM BORE	LENGTH	OUTSIDE DIAMETER	AVERAGE WEIGHT
K	3 3/4	4	4	6 1/2
WK	3 3/4	5 1/4	4	8
WL	5	6 1/2	5 1/2	17

KEYSEATS

TYPE OF BUSHING	MAXIMUM BORE WITH STANDARD KEYSEAT
K & WK	2 3/4
WL	4

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BUCKET ELEVATORS & ACCESSORIES

Steel Pulleys

- Stocked crown face only
- Actual face widths are 1" wider than nominal
- Keyseat length on Headshaft = Nominal width + 2"
- Priced complete with T.L. Bushings

Pulley Dia.	Max Bore	Thickness		WEIGHT - Lbs.				
		Discs	Rim	8"	10"	12"	14"	16"
16"	2½	⅜	⅜	53	58	63	69	74
	3	⅜	⅜	62	67	73	78	83
	3½	⅜	⅜	75	80	85	91	96
	4	⅜	⅜	103	108	113	119	124
18"	2½	⅜	⅜	62	67	73	79	85
	3	⅜	⅜	71	77	82	88	94
	3½	⅜	⅜	84	89	95	101	107
	4	⅜	⅜	112	117	123	129	135
24"	3	¼	¼	117	125	133	141	149
	3½	¼	¼	130	138	146	153	161
	4	¼	¼	158	166	174	181	189
	4½	¼	¼	184	192	200	207	215
30"	5	¼	¼	214	222	230	237	245
	3	¼	¼	162	172	182	191	201
	3½	¼	¼	175	185	194	204	214
	4	¼	¼	203	213	222	232	242
36"	4½	¼	¼	229	239	248	258	268
	5	¼	¼	259	269	278	288	298
	3½	⅜	¼	319	335	351	367	383
	4	⅜	¼	347	363	379	395	411
42"	4½	⅜	¼	373	389	405	421	437
	5	⅜	¼	403	419	435	451	467
	6	⅜	¼	519	535	551	567	583
	3½	½	¼	507	526	544	563	582
48"	4	½	¼	535	554	572	591	610
	4½	½	¼	561	580	598	617	636
	5	½	¼	591	610	628	647	666
	6	½	¼	707	726	744	763	782
54"	3½	½	¼	639	661	682	703	725
	4	½	¼	667	689	710	731	753
	4½	½	¼	693	715	736	757	779
	5	½	¼	723	745	766	787	809
60"	6	½	¼	839	861	882	903	925
	3½	½	¼	787	811	836	860	884
	4	½	¼	815	839	863	888	912
	4½	½	¼	841	865	890	914	938
66"	5	½	¼	871	895	920	944	968
	6	½	¼	987	1011	1036	1060	1084
	3½	½	¼	952	978	1005	1032	1058
	4	½	¼	980	1006	1033	1060	1086
72"	4½	½	¼	1006	1032	1059	1086	1112
	5	½	¼	1036	1062	1089	1116	1142
	6	½	¼	1152	1178	1205	1232	1258
	3½	½	¼	1328	1360	1392	1424	1456
78"	4	½	¼	1356	1388	1420	1452	1484
	4½	½	¼	1382	1414	1446	1478	1510
	5	½	¼	1412	1444	1476	1508	1540
	6	½	¼	1528	1560	1592	1624	1656

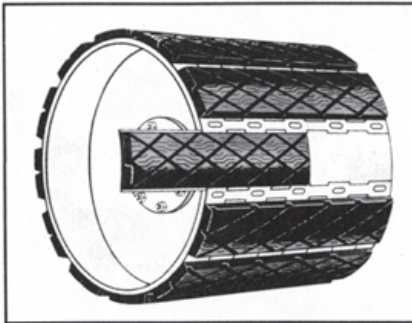
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BUCKET ELEVATORS & ACCESSORIES



SLIDE-LAG

REPLACEABLE PULLEY LAGGING FOR DRIVE PULLEYS... SUPERIOR TRACTION

ENGINEERED LAGGING

for engineered conveyor & elevator systems

lowers maintenance costs

SUPERIOR TRACTION

Slide-Lag's rubber compounding and tread-like surface which combines double chevron grooves and shallow slits on individual pads promote belt drive and maximum traction. Slide-Lag has proven superior to all other lagging methods in a wide variety of applications throughout the world. This is particularly true where drive-pulley slippage has been a problem.

LONGER LIFE

The installation retainers provide a strong, virtually unbreakable bond between the lagging and pulley face. This exclusive feature eliminates costly lagging failures from separation and loss of adhesion, and insures years of trouble-free performance.

minimizes downtime

EASY INSTALLATION

Slide-Lag can normally be installed without removing the pulleys from operating position or opening the belt splice. Simply release belt tension to allow pulley rotation, attach retainers, slide and lock pads in place, tighten belt and resume operation.

QUICK REPLACEMENT

Replacing Slide-Lag is even more convenient and easier to do, since the retainers are already in position. If scheduled maintenance time is limited, pads can be replaced a few at a time during the brief shutdowns that always occur during day-to-day operation.

SELF-CLEANING

Slide-Lag's unique combination of double chevron grooves, shallow slits and individual pads results in a kneading or flexing action that actively resists material build-up.

How to order SLIDE-LAG

FOR ON-SITE INSTALLATION ON NEW OR USED PULLEYS

Determine which method of application is to be used:

a) "Butt seam" method using 72" pads, which makes maximum use of all material; however, pieces 4" or shorter should be discarded.

The number of 72" pads required for butt seam application for most common pulley diameters can be obtained from table at right.

However, Slide-Lag can be factory formed to any diameter and installation accomplished using published installation procedures. For pulley face widths not shown, use the next larger width, or use the formula to calculate requirements.

b) "Full width" method with pads cut to exact pulley face width, no butt seams.

Number of 72" pads required for selected pulley diameters and face widths (butt seam application)

	PULLEY FACE WIDTH																			
	12"	14"	16"	18"	20"	22"	24"	26"	30"	32"	36"	38"	40"	44"	46"	51"	54"	60"	66"	72"
6"	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3
8"	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4
10"	1	1	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5
12"	1	2	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6
14"	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	7	7
16"	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	6	7	8	8
18"	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
20"	2	2	3	3	3	4	4	4	5	5	5	6	6	7	7	8	8	9	10	10
24"	2	3	3	3	4	4	4	5	5	6	6	7	7	8	8	9	9	10	11	12
30"	3	3	4	4	5	5	5	6	7	7	8	8	9	10	10	11	12	13	14	15
36"	3	4	4	5	5	6	6	7	8	8	9	10	10	11	12	13	14	15	17	18
42"	4	5	5	6	6	7	7	8	9	10	11	12	12	13	14	15	16	18	20	21
48"	4	5	6	6	7	8	8	9	10	11	12	13	14	15	16	17	18	20	22	24
54"	5	6	6	7	8	9	9	10	12	12	14	15	15	17	18	20	21	23	25	27
60"	5	6	7	8	9	10	10	11	13	14	15	16	17	19	20	22	23	25	28	30
72"	6	7	8	9	10	11	12	13	15	16	18	19	20	22	23	26	27	30	33	36

NOTE: This table utilizes all lengths over 4 inches by butting them end-to-end in a random pattern.

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BUCKET ELEVATORS & ACCESSORIES

Elevator Belt

PVC Covered Belt

TYPE 250

- A. Tension Rating: 250 pounds per inch of width
- B. Covers: PVC coated both sides
- C. Carcass: Interwoven polyester
- D. Overall Thickness: .220
- E. Minimum Pulley Diameter: 6"

TYPE 350

- A. Tension Rating: 350 pounds per inch of width
- B. Covers: PVC coated both sides
- C. Carcass: Interwoven polyester
- D. Overall Thickness: .300
- E. Minimum Pulley Diameter: 8"

TYPE 450

- A. Tension Rating: 470 pounds per inch of width
- B. Covers: PVC coated both sides
- C. Carcass: Interwoven polyester
- D. Overall Thickness: .315
- E. Minimum Pulley Diameter: 14"

TYPE 650

- A. Tension Rating: 650 pounds per inch of width
- B. Covers: PVC coated both sides
- C. Carcass: Interwoven polyester
- D. Overall Thickness: .375
- E. Minimum Pulley Diameter: 20"

ROUGHTOP CONVEYOR BELT

- A. Top Cover: 1/8" thick cordage impression, abrasion resistant synthetic compound (SBR)
- B. Bottom: Friction surface for slide bed
- C. Tension Rating: 160 PIW
- D. Carcass: 2 ply polyester
- E. Minimum Pulley Diameter: 3"

#120 TUBE CONVEYOR BELT

- A. Tension Rating: 120 PIW
- B. Covers: PVC coated x FS (Chevron or Crescent Top)
- C. Carcass: Interwoven polyester
- D. Minimum Pulley Diameter: 3"

Rubber Covered Conveyor Belt

#2-20

- A. Carcass: 2-ply polyester fabric with maximum tension rating of 220 PIW. Minimal stretch.
- B. Covers: 3/64 x 3/64 covers, super oil resistant, static conducting, fire resistant, for grain service.
- C. Overall Thickness: .204
- D. Fasteners: #140 Flexco, #375 Flexco
- E. Minimum Pulley Diameter: 14"

#3-330

- A. Carcass: 3-ply polyester fabric with a maximum tension rating of 330 PIW.
- B. Covers: 3/64 x 3/64 covers, super oil resistant, static conducting, fire resistant, for grain service.
- C. Overall Thickness: .250
- D. Fasteners: #140 Flexco, #375 Flexco

Polyester ... the superior performance fabric

- High strength to weight ratio permits fewer plies of belt to carry a greater load
- Low stretch and shrink characteristics reduce the take up and the time needed for drive adjustments.
- Resistance to mildew and rot means that wet applications will not affect the belt.
- Low moisture to absorption means greater dimensional stability in wet or dry applications.
- Excellent resistance to chemicals and acids allows a wide range of uses in a variety of environments.
- High adhesion between plies and outstanding flexibility allow the use of smaller pulleys and give greater service life.
- Excellent resistance to stretch and breakdown due to heat means consistent service in high temperature applications.

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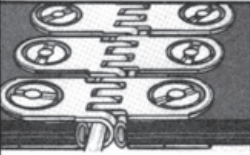
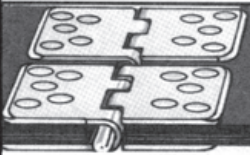
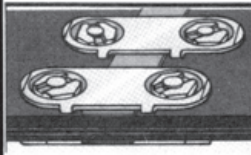
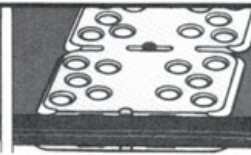
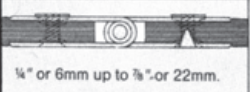
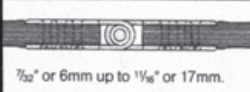
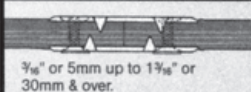
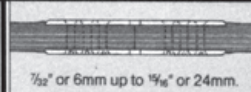
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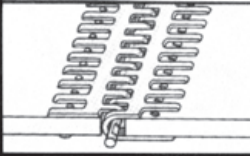
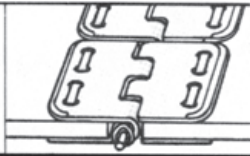

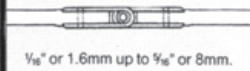
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BUCKET ELEVATORS & ACCESSORIES

Belt Fasteners

FASTENER TYPE	FLEXCO® BOLT HINGED	FLEXCO® RIVET HINGED (SR™)	FLEXCO® BOLT SOLID PLATE	FLEXCO® RIVET SOLID PLATE (BR™)																						
	SOLID PLATE BELT FASTENER SYSTEMS																									
																										
Recommended Maximum Operating Tension, PIW (Pounds Per Inch of Width)	<table border="1"> <thead> <tr> <th>Fastener Size</th> <th>PIW Range</th> </tr> </thead> <tbody> <tr> <td>375X</td> <td>Up to 190 PW</td> </tr> <tr> <td>550</td> <td>Up to 250 PIW</td> </tr> <tr> <td>750</td> <td>Up to 350 PIW</td> </tr> </tbody> </table>	Fastener Size	PIW Range	375X	Up to 190 PW	550	Up to 250 PIW	750	Up to 350 PIW	<table border="1"> <thead> <tr> <th>Fastener Size</th> <th>PIW Range</th> </tr> </thead> <tbody> <tr> <td>R5</td> <td>Up to 450 PIW</td> </tr> <tr> <td>R5½</td> <td>Up to 650 PIW</td> </tr> <tr> <td>R6</td> <td>Up to 800 PIW</td> </tr> </tbody> </table>	Fastener Size	PIW Range	R5	Up to 450 PIW	R5½	Up to 650 PIW	R6	Up to 800 PIW	Various size fastners are recommended for belts with mechanical fastener ratings up to 550 PIW Wedlok® in belts (even those designed to be vulcanized) with operating tensions up to 700 PIW	<table border="1"> <thead> <tr> <th>Fastener Size</th> <th>PIW Range</th> </tr> </thead> <tbody> <tr> <td>BR10</td> <td>Up to 600 PIW</td> </tr> <tr> <td>BR14</td> <td>Up to 800 PIW</td> </tr> </tbody> </table>	Fastener Size	PIW Range	BR10	Up to 600 PIW	BR14	Up to 800 PIW
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Belt Thickness Range (Smallest to largest size fastener)	 ¼" or 6mm up to ⅞" or 22mm.	 ⅞" or 6mm up to 1⅞" or 17mm.	 ⅞" or 5mm up to 1⅞" or 30mm & over.	 ⅞" or 6mm up to ⅞" or 24mm.																						

FASTENER TYPE	ALLIGATOR® LACING	ALLIGATOR® STAPLE										
	HINGED BELT FASTENER SYSTEMS											
												
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Belt Thickness Range (Smallest to largest size fastener)	 ⅞" or 1.6mm up to ½" or 13mm.	 ⅞" or 1.6mm up to ⅞" or 8mm.										

ALLOWABLE OPERATING TENSIONS DEPEND ON BELT STRENGTH AS WELL AS FASTENER TYPE:
A given mechanical fastener rating in pounds per inch of width (PIW) is meaningful only with belts of comparable rated strength.

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BUCKET ELEVATORS & ACCESSORIES

Flexco Tools

HAND TOOLS

Hammer-driven punch, wrench used with carpenter's brace, boring bit used in electric drill.



Bolthorn

Used with either power or hand tool method to ease bolts into Flexco top plates, except Nos. 2½ & 3.



FASTENER NUMBER	PUNCH	BORING BIT	WRENCH	BOLT BREAKER
No. 1, 140, 190 RP1, SP6	P1P	B1B Fits 3/8" Drill	S1S	110
No. 1¼, 1½, 2, 2¼, RP2	P2P	B2B Fits 3/8" Drill	S2S	112
No. 2½, 3	P3P	B3B Fits 1/2" Drill	S3S	113



FASTENER NUMBER	HINGED PUNCH	HINGED BORING BIT	HINGED WRENCH	HINGED BOLT BREAKER
No. 375, 550	P1P	B1B Fits 3/8" Drill	100	110
No. 750	P3P	B3B Fits 1/2" Drill	S3S	113

POWER TOOLS

For use with square drive, air or electric impact tool. Cut application time by approximately 50%.



Quick Change Chuck

Adapts boring tools and wrench to square drive stud on air or electric impact tool.

No. 5552 for 1/2" impact tools. No. 9257 for 3/8" impact tools. 1/2" tools recommended for No. 375 and No. 550 because larger tools tend to break the bolts in application.



FASTENER NUMBER	POWER PUNCH	POWER BORING BIT	POWER WRENCH	BOLT BREAKER
No. 1, 140, 190 RP1, SP6	HP1	HB1	HW1	110
No. 1¼, 1½, 2, 2¼, RP2	HP2	HB2	HW2	2
No. 2½, 3	HP3	HB3	HW3	3



FASTENER NUMBER	HINGED POWER PUNCH	HINGED POWER BORING BIT	HINGED POWER WRENCH	HINGED BOLT BREAKER
No. 375, 550	HP1	HB1	H100	110
No. 750	HP3	HB3	HW3	113

Punch preferred over boring bit for general use and where belt cover is over 3/16" thick.

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BUCKET ELEVATORS & ACCESSORIES

Rubber Lining

Rubber Faced Steel Plate

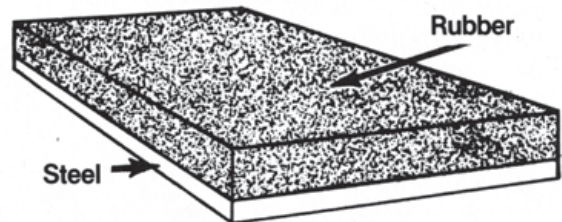
Rubber Faced Steel Plate is made of an exceptionally tough, long-wearing rubber vulcanized permanently to sheet steel... a combination that gives the structural advantages of steel—and the abrasion and corrosion-resistant advantages of rubber.

As a liner, Rubber Faced Steel plate will stay flat in the trough or chute it protects. Positive installation is assured, it will not wrinkle or pull away from the bolt holes. Butt joints between sections remain flat, with no edges curving up to abrade quickly or to retard the flow of materials.

Whether your wear problem requires only a liner or a complete rubber-protected trough, spout etc., let us fabricate your next piece of spouting equipment with Rubber Faced Steel Plate—See for yourself the longer lasting qualities of this product and realize the profits of less frequent replacements.

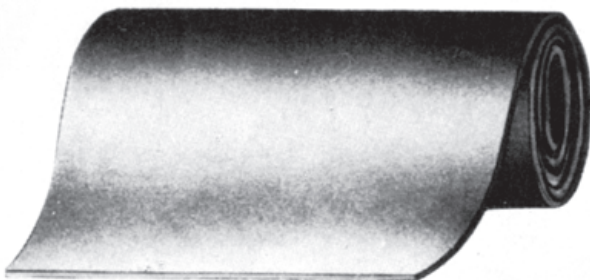
Rubber Faced Steel Plate

- 1/4" Rubber on 16 ga. Steel Plate
- 48" Width 10 ft. max. length
- Nominal charge for cutting to various sizes and shapes



Chute Lining

Recommendations: Chute lining is abrasion-resisting rubber which can be applied to metal, cement, wood, and other materials almost as easily as a tire patch on an inner tube. It can be used as a liner or pad, protecting against wear, eliminating frequent and costly replacement of abrasion-worn material. Rubber lining or belting handling abrasive materials can be repaired with chute lining. Where abrasion is especially heavy, several thicknesses of chute lining can be "plied up" to give maximum protection.



Available 1/8" and 1/4" thick.
Width: 48". Cut to length required.

Construction; The rubber compound used in chute lining was developed specially to provide exceptional resistance to abrasion. It can take more punishment than metal because material bounces off rather than cuts into the rubber.

Typical Applications

Fan housings where abrasive dust wears out metal.
Caution: cannot be used on fan blades because of constant tension produced by centrifugal force.

- Cyclone dust collectors*
- Ball mill scoops*
- Rod Mill scoops*
- Sandblast houses*
- Covering worn conveyor belts*
- Patching rubber-covered equipment*
- Hoppers*
- Conveyor belt tripper heads*
- Conveyor pulley lagging*
- Elevator heads*
- Grain spouts*
- Launders*
- Elbows*
- Screw conveyor troughs*
- Noise reduction*

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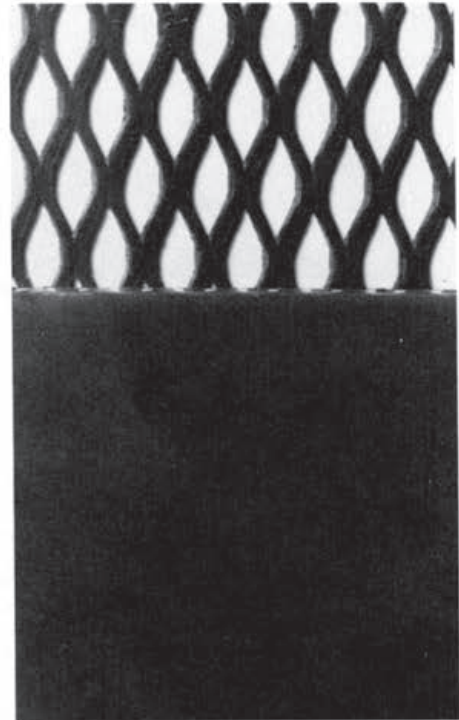


BUCKET ELEVATORS & ACCESSORIES

Urethane

- Outstanding resistance to abrasion.
- Economical and long-wearing.
- Excellent cut resistance and resiliency.
- Lightweight, easy to fabricate and install.
- Meets FDA criteria for bulk food handling.
- Available with expanded metal and fabric backings.

Urethane is used to fight the effects of abrasion in bulk material handling applications. The life of spouts, chutes, distributors, transitions, elbows, bins, hoppers and other conveying components can be significantly increased by lining with urethane.



The choice of expanded metal or fabric backing is a matter of individual preference. In thinner sections (3/16" to 1/2"), many users choose expanded metal backing, because the metal adds rigidity, allowing it to lay flatter when installed. As the thickness increases, the need for metal backing often diminishes. The fabric back urethane can be hand formed, while the expanded metal back requires industrial metal rolling equipment for rounded shapes, and a press brake to form angles.

Stock size: 1/4" thick, 48" wide, 10 ft. length

UHMW and other linings available on request.

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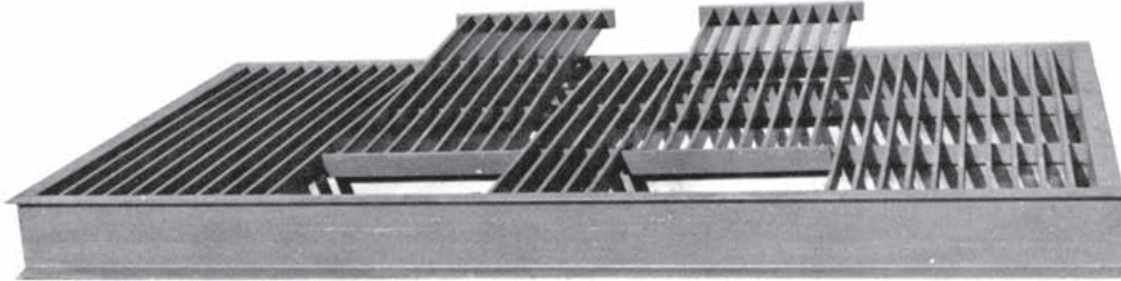
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BUCKET ELEVATORS & ACCESSORIES

Driveway Grates



9 ft. x 5 ft. grates in either 6" or 8" channel frame

All welded heavy duty — built to carry the heaviest loads.

- Weight per square foot: 35 pounds (for 8" channel frame).
- Heavy steel channel-beam frame.
- Grating made of 2½" x ½" bars set on edge every 2 inches.
- Two removable sections for easy access to pit.
- Self cleaning — no flat surfaces to hold the grain.



OPTION: Lightweight removable cover, with two handles on each side for easy placement and removal.

We custom make grates. Please send us a description of your grating needs.
We can design and fabricate a grate that will support a specified load and fit your installation.

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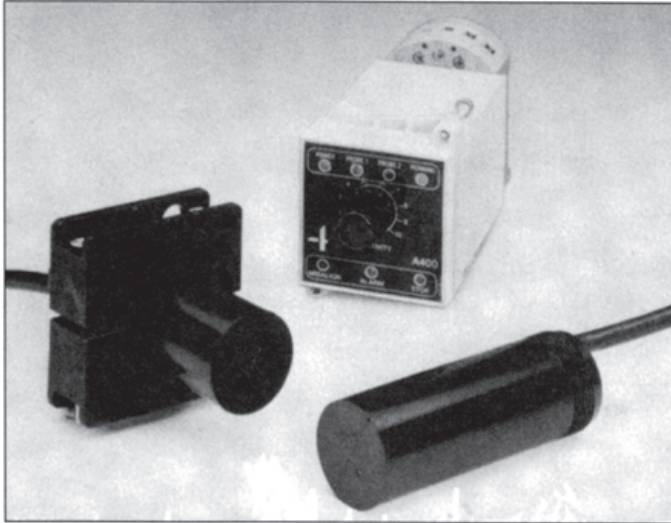


BUCKET ELEVATORS & ACCESSORIES

Leg Monitors

A400 Elevator Belt Misalignment System

Detects Tracking/Alignment Problems
on Bucket Elevators



The A400 Belt Misalignment System uses an electronic control unit which works in conjunction with two magnetic alignment sensors to monitor the alignment of belt bucket elevators.

Alignment Sensing – The two probes which are mounted on the elevator will generate one pulse for each metallic bucket or bolt. If the elevator belt becomes misaligned, one of the probes will fail to detect the bucket or bolts, and the control unit will then cause the alarm relay to energize and after a delay the stop relay will de-energize.

- **Fail Safe** – Non-contacting system, easy on-site installation and no moving parts for long term reliability.
- **Sensors are FM Approved** – Class II Division I for hazardous locations.
- **Control Module** – Provides outputs for alarm and stop control of bucket elevators and associated equipment.
- **Status Lights** – On the control module provide visual indication for misalignment, alarm, stop, run, power, etc.

A400 TECHNICAL SPECIFICATIONS

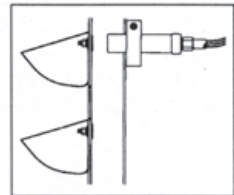
Control Module

- Part Number: BAS110
- Supply: 110 VAC (other voltages available)
- Consumption: 30 mA
- Fuse: Supply to be fused at 2A max.
- Relay Outputs (240 VAC 5A max):
Running – 1 pole normally open
Alarm – 1 pole normally open
Stop – 1 pole normally closed
- Delays: Misalignment detection – 4 sec.
Misalignment alarm – 15 sec.
Misalignment stop – 45 sec.
- Probe Input: 12 VDC approx.
- Probe Supply: 12 VDC approx. (80mA available)
- Dimensions: 48 x 67 x 120mm (including base)
- Weight: 9.7 oz.



Alignment Sensor

- Part Number: WDA12FM
- Supply: 12 VDC (from control module)
- Consumption: 20 mA
- Output: 12 VDC approx. pulsed
- Min. Target Size: 1" (25mm) Dia.
- Max. Target Distance: 3" (75mm) approx. (for 1" Dia. target)
- Max. Rate: 2,000 pulses/min.
- Sensing Distance: Up to 6" – 1" ferrous object
- Construction: Nylon, epoxy resin – Non sparking
- Dimensions: 2" Dia. x 6" long
- Weight: 1 lb.
- Protection: FM Approved Class II Division I Groups E, F, & G



Approved Installation/Start Up Service Available

Full Manual Available Upon Request

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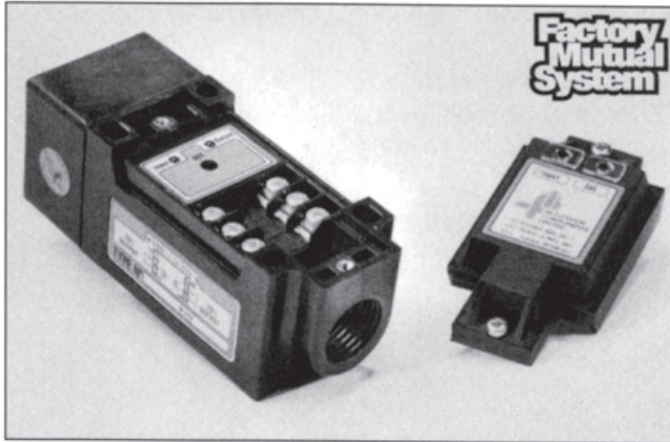


BUCKET ELEVATORS & ACCESSORIES

Leg Monitors

Speedswitch M700

Underspeed Motion Monitor
Monitors Rotating Machinery for Dangerous Underspeed Conditions



An inductive sensing device located in the nose of the M700 enclosure will detect a metal target. This target can be an existing bolt head or device attached to a shaft. Ideally the target should be ferrous metal but non-ferrous metal will be detected at a shorter range.

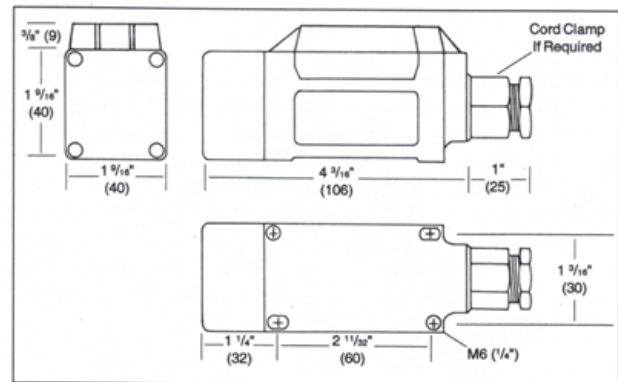
A signal is generated by this target on each revolution of the shaft. The M700 is then set to the normal machine RPM by the calibration push button. If the shaft speed falls to 10% or 20% below normal RPM, the M700 provides output signals via relays for control purposes such as alarm and/or shutdown.

- **Push Button Calibration** – With LED Status Indicators
- **Low Cost, Maintenance Free** – Unit is solid state with no moving parts for long term reliability.
- **Dual Set Points** – Ten and twenty percent underspeed.
- **“Non-Contact” and “Fail Safe”** – Sensor requires no contact with monitored machinery.
- **Application** – Conveyors, elevators, mixers, fans, pumps, grinders, and all mechanical handling systems.

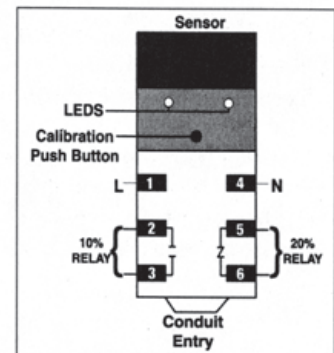
SPEEDSWITCH M700 SPECIFICATIONS

- Supply: 220VAC 50/60 Hz Part No. M722FM
110VAC 50/60 Hz Part No. M711FM
24VDC Part No. M724FM
- Supply Tolerance: -15% to +7.5%
- Consumption: 6VA
- Fuse: Supply to be fused at 5A Max.
- Speed Range: 5-3600 RPM
- Outputs: (powered up) 1. Normally open contact closing when speed falls by 10%
2. Normally closed contact opening when speed falls by 20% (Failsafe)
- Contact Rating: 3A 240VAC non-inductive
- Start-up Delay: User selectable 0-30 seconds
- Sensing Range: 11/32" (9mm) max. ferrous
7/32" (6mm) max. non-ferrous
- Enclosure: Molded enclosure to DIN.43964
- Protection: FM approved. Hazardous conditions.
Class II Div 1 Groups E,F,G
IP65 dust and watertight.
- Weight: 8 oz. (.22kg)
- Accessories: MTG4 Target Disk
H350120 “Vibratone” Alarm Horn

Dimensions



The diagram shows the state of the internal contacts when power is applied to the M700. See installation manual for correct wiring procedure. The 10% contact closes when the speed falls below 10% of set speed. The 20% contact opens when the speed falls below 20% of set speed or power/input is interrupted.



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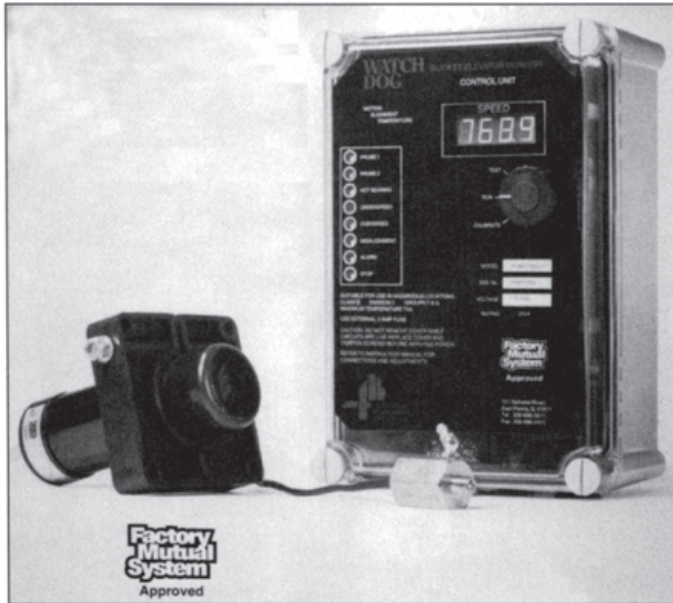
BUCKET ELEVATORS & ACCESSORIES

Leg Monitors

WATCHDOG

Combined belt alignment, motion and bearing monitor for elevator legs

Offers protection against belt slip, belt misalignment and overheated bearings in one microprocessor unit.



Maximum Security

- Fail-safe non contacting sensors read bucket bolts or elevator buckets to monitor both belt speed and alignment.
- "FACTORY MUTUAL SYSTEM" safety label.
- Unique test sequence allows operator to regularly check all functions.
- Programmed information is retained in memory during periods of long shutdown (Battery back-up).

Range of Options

- Choice of alarm and shutdown set points.
- Choice of start-up delays, which include exclusive acceleration monitoring.
- Programmable LED digital readout can give RPM, FPM, % deviation, buckets per minute or bushels per hour, etc.
- Can monitor up to six bearings for overheating condition.
- PLC Interface Board available. (Retrofittable)

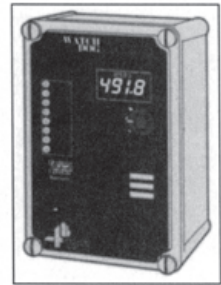
Easy Installation

- "Slip in" motion/alignment sensors for rapid positioning.
- LED on sensor end indicates correct positioning.
- Optional program E-proms for problematical bucket elevators.
- "Dial in" misalignment feature.
- 24 hour phone in hotline.
- 24 month factory warranty.

WATCHDOG TECHNICAL SPECIFICATIONS

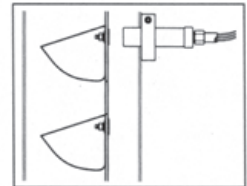
Control Unit

- Speed range: 20-2000 pulses/min.
- Alarm & shutdown points:
Alarm 5 10 15% underspeed & overspeed
Stop 15 20 20
- Start-up time delays: 5 secs, 15 secs, and 30 secs.
- Speed delay: 4 digit LED 0-9999
- Front panel controls: "Hall effect" switch for test-run-calibrate.
- Output Relays: ALARM: 1 changeover.
STOP: 1 changeover
- Relay contact rating: 10 amps max. 240 volts max.
- Dimensions: Height 11", width 7½", depth 6"
- Weight: 5 lbs.
- Conduit entries: 3 at ¾"
- Power supply: 115 VAC±10% 50/60 HZ, 10/20 VA (220 VAC also available).
- Protection: FM Approved Class II Division 2 Groups E, F & G.



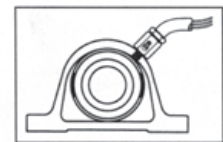
Motion Sensor

- Type: Magnetic sensor
- Speed range: 20-2000 pulses/min.
- Sensing distance: Up to 6" - 1" ferrous object
- Sensing indicator: Yellow LED
- Power supply: 12 VDC 20 m.A. from control unit
- Construction: Nylon and encasulating, epoxy resin - Non sparking
- Dimensions: 2" dia. x 6" long
- Weight: 1 lb.
- Conduit entry: 1/2" N.P.T. female
- Protection: FM Approved Class II Division 1 Groups E, F & G



Temperature Probe

- Type: PTC thermister
- Style: Grease through
- Trip temperature: 90°C / 194°F
- Power supply: 12 VDC from control unit
- Thread size: 1/8" NPTF
- Conduit entry: 1/2" NPT
- Protection: FM Approved Class II Division 1 Groups E, F & G
- Weight: 8.5 oz.



Approved Installation/Start Up Service Available

Full Manual Available Upon Request

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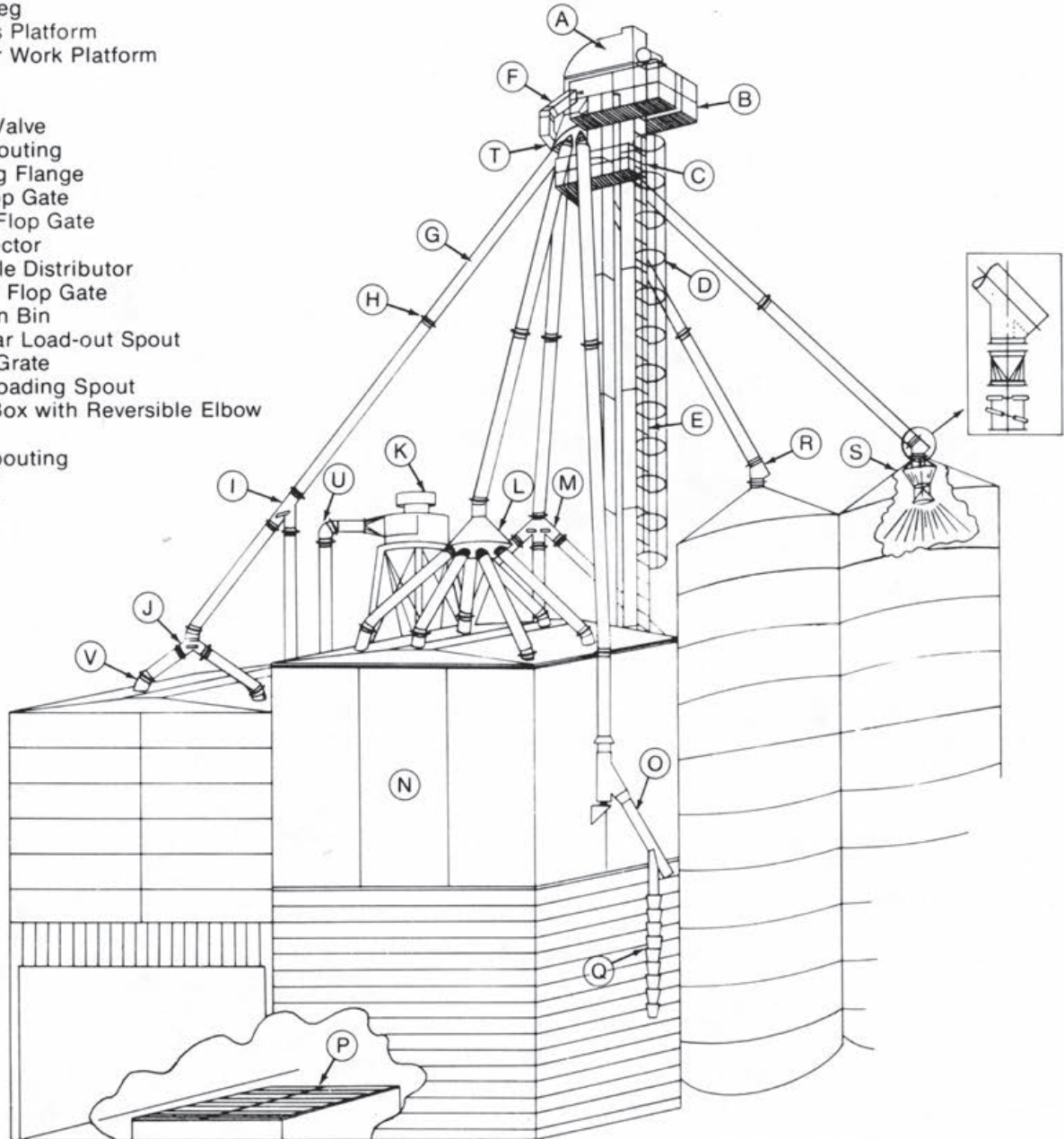
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BUCKET ELEVATORS & ACCESSORIES

- A. Elevator Leg
- B. Mechanics Platform
- C. Distributor Work Platform
- D. Cage
- E. Ladder
- F. Overflow Valve
- G. Round Spouting
- H. Angle Ring Flange
- I. Off-set Flop Gate
- J. Two-Way Flop Gate
- K. Dust Collector
- L. 360°, 6 Hole Distributor
- M. Three-way Flop Gate
- N. Steel Grain Bin
- O. Hopper Car Load-out Spout
- P. Driveway Grate
- Q. Flexible Loading Spout
- R. Cushion Box with Reversible Elbow
- S. Aerator
- T. Square Spouting
- U. 90° Elbow
- V. 45° Elbow



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