



HEAVY DUTY VIBRATORY FEEDERS

HI-VI ELECTROMAGNETIC and HVF MECHANICAL FEEDERS

*Heavy-duty units for
large capacity and difficult
material handling operations.*

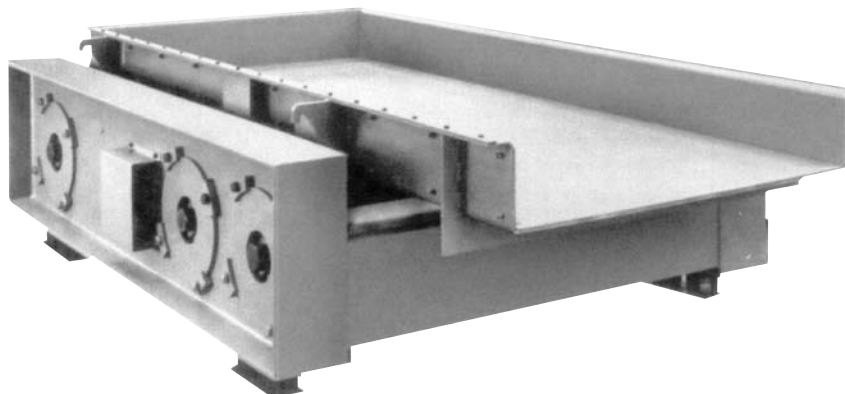
HI-VI ELECTROMAGNETIC



FEATURES

- Electro-permanent magnet drive
- AC Operation
- Simple control
- Encapsulated coils
- Variety of trays
- Enclosed drive element
- Low power consumption
- 3 year warranty

HVF MECHANICAL FEEDERS



FEATURES

- Adjustable-angle rubber springs
- Low profile—minimum headroom
- Flow rates to 60 ft/minute (18 mpm)
- Simple, stable, variable controller
- Separately mounted components for easy maintenance
- Low horsepower
- Heavy-duty construction

HI-VI ELECTROMAGNETIC

Eriez' unique Hi-Vi magnetic drive circuit provides a simple yet powerful solution to difficult material feeding applications.

Feed more for less. Up to 20% greater capacity of Eriez Heavy Duty Vibratory Feeders means greater productivity at lower cost. In addition, you get all the features that for years have made Eriez Feeders the leaders in quality and dependability.

Electro-Permanent Magnetic Drive

The basic simplicity of a drive powered by alternately opposing and attracting magnetic forces assures low maintenance. There are no sliding or rotating parts. Power consumption is low, installation easy. The positive driving force of Eriez units provides stability, control, and unexcelled accuracy.

AC Operation

Since no rectification is required, feeders can simply be wired into single phase AC lines

Simple Controls

Compact AC controls regulate feeder speed by varying applied voltage. Controls are available for automated operation. Single feeders or groups of feeders can be remotely controlled from one station.

THE PATENTED ERIEZ HI-VI MAGNETIC DRIVE CIRCUIT

Old-style electromagnetic vibratory equipment operates with an inefficient attract release system: a spring-mounted moving mass is alternately attracted by a rectified pulsating DC electromagnet and returned to its original position solely by the springs. The Eriez HI-VI system, on the other hand, incorporates a lifetime permanent magnet (part of a spring-mounted moving mass) whose poles are intermeshed with those of an electromagnet powered directly by an AC line. This results in the spring-mounted moving mass being both attracted and repelled by the AC electromagnet equally on each half of the AC cycle.

In the diagram below, the poles of the permanent magnet are shown intermeshed in the air gaps of the AC electromagnet. The polarity of the permanent magnet is fixed, while the polarity of the electromagnet alternates at line frequency. The electromagnet polarity is shown as it exists on one side of the AC sine wave; note that both poles of the permanent magnet are attracted toward the unlike electromagnet poles while being repelled in the same direction by the

Encapsulation

The coil and magnet in Eriez' drive unit are encapsulated in epoxy, eliminating coil movement and thus extending trouble-free coil life.

Enclosed Drive Element

The completely enclosed drive assembly is dust and moisture resistant which extends coil life and makes external cleaning easier. Special drive enclosures are available for locations where dust resistance is required.

Drive Linearity

Eriez unique AC drive applies power on both the forward and reverse direction of the feeder tray, giving superior linearity and control. All competitors use an inefficient find release design in which an electromagnet pulls the tray in one direction and the feeder springs cause the tray to snap back in the opposite direction.

High Temperature Units

Standard units operate at temperatures up to 135°F (57°C). High-temperature units are available for temperatures up to 300°F (150°C).

Variety of Trays

In addition to a wide variety of standard trays, special trays with screens, grizzlies, dust covers, abrasive liners, heated liners, etc., are available.

like poles. Thus there are four forces acting together to drive the armature and moving mass in the same direction.

The action described has the effect of progressively closing the magnetizing circuit through the electromagnet core, providing a progressively increasing magnetizing force upon the permanent magnet. The demagnetizing force is very minor, since the action described also has the effect of progressively opening the demagnetizing circuit.

On the opposite side of the sine wave the polarities of the electromagnet are reversed, the armature is driven in the opposite direction, and again there is a net magnetizing force on the permanent magnet. There is always a predominant magnetizing force impressed upon the permanent magnet that prevents it from ever losing its strength.

Since the amplitude of vibration depends directly upon the forces applied at the poles, and since these forces depend directly upon the applied AC voltage, simple variation of the AC voltage from zero to maximum results in similar amplitude variation from zero to maximum.

NOTES:

1. All feeding capacities are based on dry sand weighing 100 lb./ft³ (1.6 g/cu cm) with the tray at a 10° downslope. More precise repeatability and less over-feed will be achieved with less downslope.
2. Dimensions shown are approximate and should not be read to be exact.
3. Dimensions and specifications are subject to change without notice.

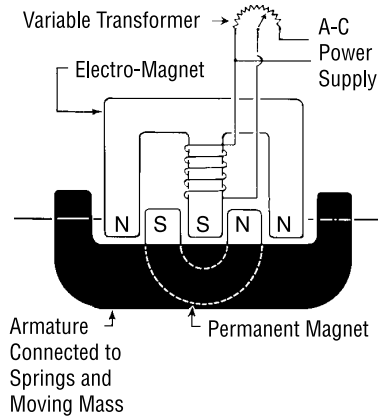


Figure 1. Eriez Magnetic Drive Circuit

POWER SAVERS!

Eriez Feeders Use up to 68% LESS POWER than some competitive units

Model	Watts	Model	Watts
58B	80	85B	700
62B	250	98B	850
65B	250	105B	850
70B	500	115B	1500
75B	500		

MODEL 62B FOR FEEDING UP TO 135 TONS (121 MT) PER HOUR

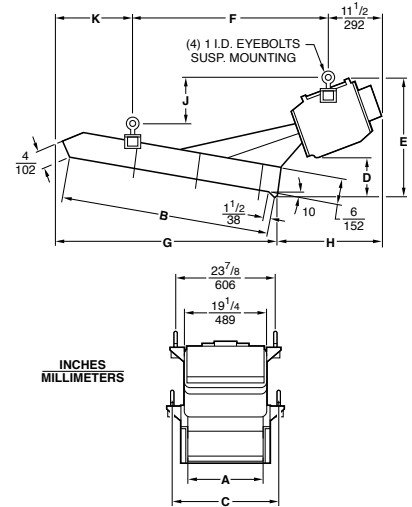
The compact 62B will conservatively feed up to 135 tons (121 mt) per hour for materials weighing 100 lb/ft³ (1.6 g/cu cm). It is ideal for many medium capacity feeding applications requiring controlled feed to weigh scales, packaging and filling machines, kilns, etc. Suspended or base mounted models (please specify) can be supplied. Capacity is based on 18 x 36 inch (457 x 914 mm) tray properly installed with skirtboards.

Power Supply	115V, 230V, 460V, or 575V 50–60 Cycles, Single Phase
Full Load Power Input	8 Amp at 230V
Shipping Weight	730 lb. (331 kg)

SPECIFICATIONS

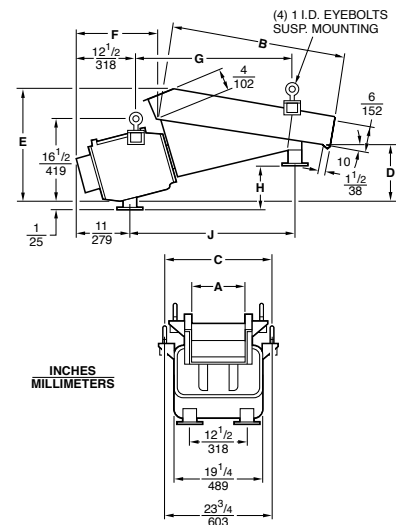
62B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
8 x 60	in	8	60	15-1/4	13-7/8	30-3/4	68-7/8	61-5/8	28-3/4	12-1/8	10-3/8
	mm	203	1524	387	353	781	1749	1567	730	308	264
10 x 54	in	10	54	17-1/4	10-3/4	27-5/8	58-3/8	55-1/2	21-5/8	9-7/8	7-5/8
	mm	254	1372	438	273	702	1483	1410	549	251	194
12 x 48	in	12	48	19-1/4	10	26	52	50	31	10-1/2	14-3/4
	mm	305	1219	489	254	660	1321	1269	788	267	375
14 x 42	in	14	42	21-1/4	9-3/8	26-1/4	44-3/4	44-3/4	26-1/2	11	15-3/8
	mm	356	1067	540	238	667	1136	1137	674	280	389
18 x 36	in	18	36	25-1/4	9-1/8	25-7/8	45-1/2	37-7/8	28-1/4	10-1/2	6-5/8
	mm	457	914	641	233	657	1156	962	718	265	168



62B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	
8 x 60	in	8	60	23-3/4	7-5/8	23-3/8	12-1/4	41-5/8	6-1/2	43-3/8	
	mm	203	1524	603	193	594	311	1056	164	1103	
10 x 54	in	10	54	23-7/8	8-7/8	23-1/3	15	44	6-3/4	45-7/8	
	mm	254	1372	606	225	598	380	1117	170	1164	
12 x 48	in	12	48	23-3/4	8-3/8	22-1/8	14	35-1/2	6-1/4	36-3/8	
	mm	305	1219	603	214	562	358	903	159	925	
14 x 42	in	14	42	23-3/4	8	20-5/8	16-7/8	35-3/4	5-5/8	37-1/4	
	mm	356	1067	603	204	525	429	908	143	946	
18 x 36	in	18	36	25-1/4	8-5/8	20-1/4	19-1/4	34-5/8	5-3/4	36-1/2	
	mm	457	914	614	220	514	489	880	146	927	
80 x 60 100 x 48 120 x 36		CONSULT HOME OFFICE									



MODEL 58B FOR FEEDING UP TO 80 TONS (72 MT) PER HOUR

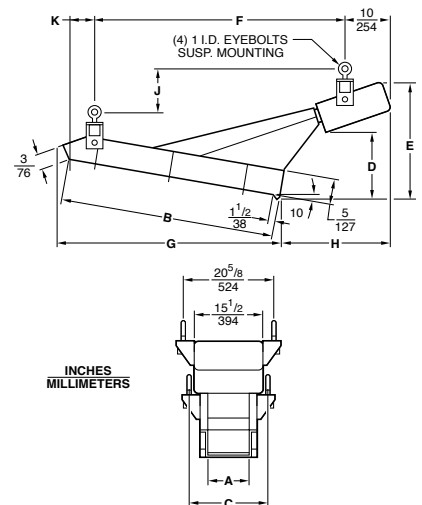
The trim, lightweight Model 58B, either base mounted or suspended (please specify), can easily handle up to 80 tons (72 mt) per hour of any bulk free-flowing material weighing 100 lb/ft³ (1.6 g/cu cm). Simple variable transformer type controls give 100% range of capacity, with linearity. Capacity is based on 14 x 36 inch (356 x 914 mm) tray properly installed with skirtboards.

Power Supply	115V, 230V, 460V, or 575V 50–60 Cycles, Single Phase
Full Load Power Input	7 Amp at 115V
Shipping Weight	410 lb. (186 kg)

SPECIFICATIONS

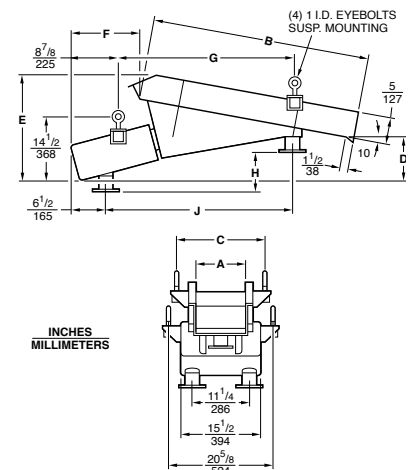
58B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
8 x 54	in	8	54	15-3/8	14-7/8	24-1/8	54-5/8	55-1/8	23	8	13-3/4
	mm	203	1372	391	379	613	1388	1402	585	203	350
10 x 48	in	10	48	17-5/8	14-5/8	26-3/8	55-5/8	49-3/8	25	9	6-1/2
	mm	254	1219	441	371	670	1413	1253	634	229	165
12 x 42	in	12	42	19-3/8	10-3/8	21-3/8	39-7/8	43-3/8	19-7/8	7	13-3/8
	mm	305	1067	492	263	543	1014	1103	505	178	341
14 x 36	in	14	36	21-3/8	9	20	41-1/8	37-1/2	25	6-1/2	9-1/8
	mm	356	914	543	229	508	1044	952	635	165	232



58B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	
8 x 54	in	8	54	15-3/8	4-3/8	18	6-1/8	34	4-7/8	36-1/8	
	mm	203	1372	391	112	457	156	864	123	917	
10 x 48	in	10	48	17-3/8	5-1/8	17-3/4	8-1/8	34-3/4	5	37-5/16	
	mm	254	1219	441	129	450	208	883	128	948	
12 x 42	in	12	42	19-3/8	6-5/8	18-1/4	10-7/16	36-5/8	6-3/8	35-1/4	
	mm	305	1067	492	168	463	265	829	163	894	
14 x 36	in	14	36	21-3/8	5-3/4	16-3/8	13	32-7/8	5	35-1/2	
	mm	356	914	543	147	415	330	836	127	902	
16 x 30	in	16	30	23-3/8	6-3/8	15-3/4	16	28-7/8	6-1/8	31-1/8	
	mm	406	762	594	163	399	405	734	155	791	
60 x 48 80 x 42 100 x 36		CONSULT HOME OFFICE									



MODEL 70B FOR FEEDING UP TO 275 TONS (247 MT) PER HOUR

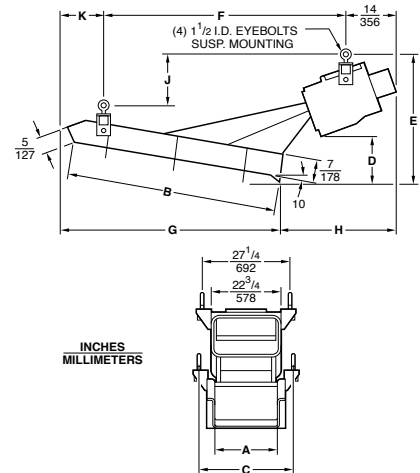
This rugged 70B will pour out up to 275 tons (247 mt) of bulk materials per hour. Use it for feeding to central belt lines, screens, pulverizers and elevators. Special trays are available for all models with screens, grizzlies, dust covers, abrasive liners, etc. Capacity is based on 24 x 42 inch (610 x 1067 mm) tray properly installed with skirtboards.

Power Supply	115V, 230V, 460V, or 575V 50-60 Cycles, Single Phase
Full Load Power Input	15 Amp at 230V
Shipping Weight	1550 lb. (703 kg)

SPECIFICATIONS

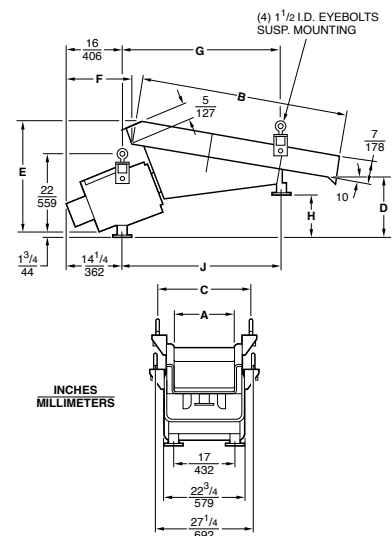
70B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
12 x 72	in	12	72	20-1/2	17-7/8	35-5/8	88-1/8	74-1/2	36-7/8	13-3/8	9-3/8
	mm	305	1829	521	454	905	2238	1893	936	341	238
14 x 66	in	14	66	22-1/2	15-1/2	33-1/4	79-1/8	68-5/8	33-1/2	11-5/8	9-1/8
	mm	356	1676	572	394	845	2010	1743	851	295	231
18 x 60	in	18	60	26-1/2	13	31-5/8	60-5/8	62-1/4	30-1/4	11-5/8	18-1/4
	mm	457	1524	673	330	803	1538	1581	768	296	463
24 x 42	in	24	42	32-1/2	10-7/8	29-3/8	57-1/2	44-3/4	35-7/8	12	9-3/8
	mm	610	1067	826	279	746	1461	1137	911	305	240
30 x 36	in	30	36	38-1/2	12	29-3/4	54-1/8	39-1/8	36-3/8	13	7-3/8
	mm	762	914	978	304	756	1374	993	923	330	188



70B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	
12 x 72	in	12	72	20-1/2	9-1/2	26-1/2	9-7/8	51-3/4	5-9/16	53-3/4	
	mm	305	1829	521	241	673	253	1315	141	1364	
14 x 66	in	14	66	22-1/2	12-1/8	27-3/8	20	55-7/8	8-1/8	58	
	mm	356	1676	571	307	696	509	1420	208	1475	
18 x 60	in	18	60	26-1/2	9-7/8	26-5/8	18-3/8	49-3/4	7-1/8	51-1/2	
	mm	457	1524	763	250	676	466	1264	181	1308	
24 x 42	in	24	42	32-1/2	11	24-3/4	25	38-3/8	7-1/4	40	
	mm	610	1067	826	279	629	634	975	184	1016	
30 x 36	in	30	36	38-1/2	12-1/8	22-7/8	24-3/4	37-7/8	7-1/8	39-7/8	
	mm	762	914	978	308	582	629	963	181	1013	
120 x 72 140 x 60 160 x 48		CONSULT HOME OFFICE									



MODEL 65B FOR FEEDING UP TO 180 TONS (162 MT) PER HOUR

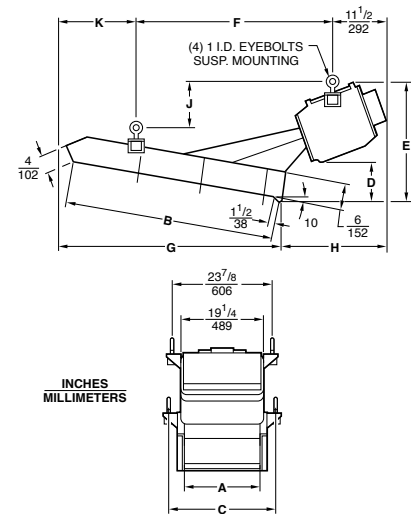
The 65B provides a wide capacity range to feed controlled amounts from a few pounds to 180 tons (162 mt) per hour, for materials weighing 100 lb/ft³ (1.6 g/cu cm), and even more if operated with more downslope and skirtboards. All units are available with either under-drive or overhead-drives (please specify). Capacity is based on 24 x 30 inch (610 x 762 mm) tray properly installed with skirtboards.

Power Supply	115V, 230V, 460V, or 575V 50–60 Cycles, Single Phase
Full Load Power Input	8 Amp at 230V
Shipping Weight	750 lb. (340 kg)

SPECIFICATIONS

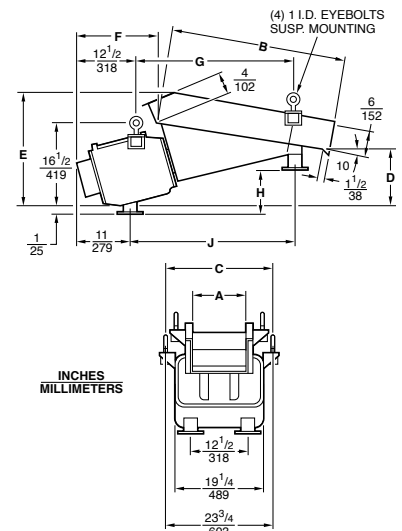
65B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
10 x 60	in	10	60	17-1/4	15-1/2	32-3/8	65-1/4	62-1/2	34-5/8	15-1/2	20-5/8
	mm	254	1524	438	393	822	1656	1587	879	394	525
12 x 54	in	12	54	19-1/4	12-3/4	29-5/8	60-1/8	56-1/4	29-1/2	13	14-3/8
	mm	305	1372	489	325	752	1527	1429	749	330	365
16 x 48	in	16	48	23-1/4	10-3/8	27-1/4	52-3/8	50-3/8	25-3/8	11	12
	mm	406	1219	591	264	692	1332	1279	644	279	305
18 x 42	in	18	42	25-1/4	10-5/8	25-1/2	51-1/4	43-1/2	31-1/8	11	12-3/8
	mm	457	1067	641	270	648	1300	1105	791	278	314
24 x 30	in	24	30	31-1/4	9-3/4	25-7/8	32-1/2	31-7/8	22-7/8	11-7/8	10-7/8
	mm	610	762	794	247	657	827	810	580	302	276



65B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	
10 x 60	in	10	60	23-3/4	6-3/4	22-7/8	9-1/2	41-7/8	4-1/8	43-5/8	
	mm	254	1524	603	171	581	242	1065	104	1107	
12 x 54	in	12	54	23-7/8	7-1/2	22-1/4	13-5/8	41-7/8	4-1/2	43-1/4	
	mm	305	1372	606	189	564	346	1064	115	1097	
16 x 48	in	16	48	23-1/4	7-7/8	21-1/2	13-1/2	35-3/8	4-5/8	36-1/2	
	mm	406	1219	591	199	547	344	898	118	927	
18 x 42	in	18	42	25-1/4	8-7/8	21-1/2	15-3/4	32-3/8	6-3/8	33-5/8	
	mm	457	1067	641	226	546	400	823	162	853	
24 x 30	in	24	30	31-1/4	9-3/8	19-7/8	19-3/16	28-5/8	6	29	
	mm	610	762	794	237	505	487	728	152	737	
100 x 60 120 x 48 140 x 36		CONSULT HOME OFFICE									



MODEL 85B FOR FEEDING UP TO 420 TONS (378 MT) PER HOUR

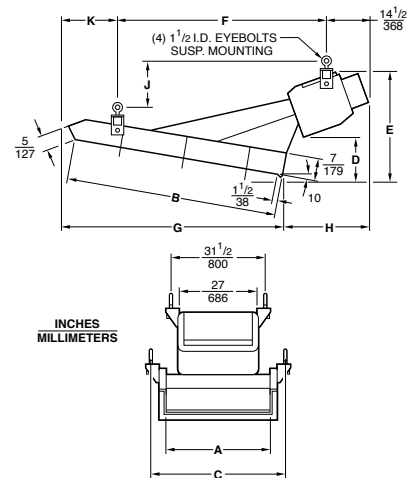
The 85B, with a feed rate of 420 tons (378 mt) per hour, provides high capacity in a compact size. With its wide flat tray it can easily handle big bulky chunks such as rocks, coal and other mined materials. Capacity is based on 36 x 48 inch (914 x 1219 mm) tray properly installed with skirtboards.

Power Supply	230V, 460V, or 575V 50–60 Cycles, Single Phase
Full Load Power Input	25 Amp at 230V
Shipping Weight	2400 lb. (1090 kg)

SPECIFICATIONS

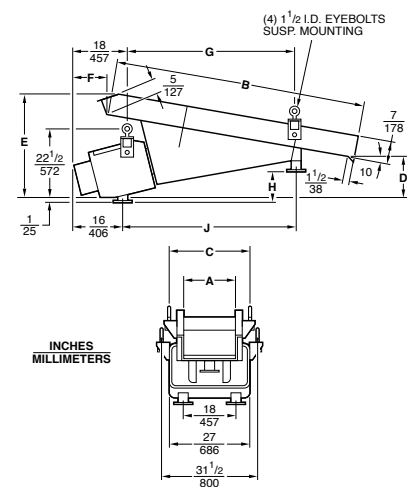
85B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
18 x 84	in	18	84	27-5/8	19-3/4	40-1/8	87-1/8	86-1/8	38-1/8	17-1/2	23-1/4
	mm	457	2134	702	500	1019	2213	2189	968	444	589
24 x 72	in	24	72	32-1/2	15-3/4	34	81-7/16	74-5/16	35-3/4	12-15/16	15-1/4
	mm	610	1829	826	400	864	2069	1888	908	328	387
30 x 60	in	30	60	39-1/2	14-7/8	34-3/4	71-7/8	62-5/8	37-3/4	15-1/8	14-3/8
	mm	762	1524	1003	377	883	1827	1590	958	384	365
36 x 48	in	36	48	45	12-3/4	32-3/4	60	50-3/4	40-1/4	15-7/8	17
	mm	914	1219	1142	324	832	1524	1289	1023	403	431



85B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	
18 x 84	in	18	84	27-5/8	10-1/8	31	17-3/8	62-7/8	7	65-3/4	
	mm	457	2134	702	257	786	442	1596	177	1659	
24 x 72	in	24	72	33-1/2	12-1/2	31-3/8	16-7/8	50-3/4	8	53	
	mm	610	1829	851	317	797	429	1288	203	1346	
30 x 60	in	30	60	39-5/8	10-5/8	27-3/8	20-3/4	39-7/8	8-1/2	42-7/8	
	mm	763	1524	1008	271	695	528	1013	217	1088	
36 x 48	in	36	48	45-5/8	11	25-7/8	24-1/4	39-3/8	7	42-1/4	
	mm	914	1219	1159	280	657	616	999	179	1072	
100 x 120 120 x 108 140 x 96 160 x 84		CONSULT HOME OFFICE									



MODEL 75B FOR FEEDING UP TO 350 TONS (315 MT) PER HOUR

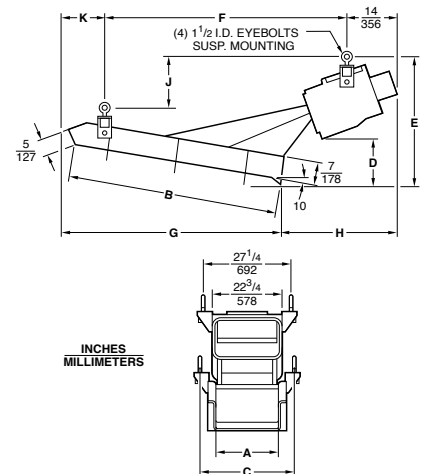
The popular 75B has a feeding capacity of 350 tons (315 mt) per hour. With its precise control of this feed rate it is ideal for use in proportioning aggregates and other materials. Fine or coarse, large or small bulk materials are fed equally well. Capacity is based on 30 x 48 inch (762 x 1219 mm) tray properly installed with skirtboards.

Power Supply	115V, 230V, 460V, or 575V 50-60 Cycles, Single Phase
Full Load Power Input	15 Amp at 230V
Shipping Weight	1575 lb. (714 kg)

SPECIFICATIONS

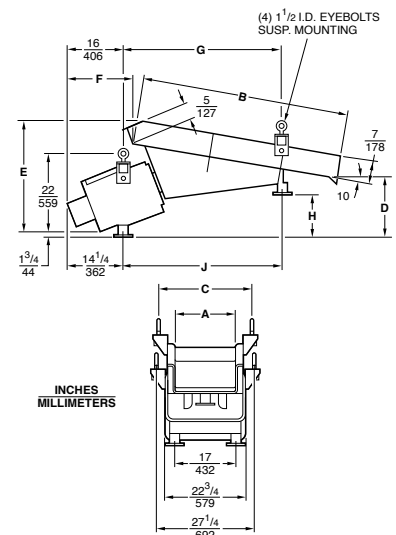
75B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
14 x 78	in	14	78	22-1/2	20-1/8	37-3/4	85-3/8	80-1/4	39	16-1/4	19-7/8
	mm	355	1981	570	512	959	2169	2038	990	412	506
18 x 72	in	18	72	27	15-3/8	34	73-7/8	74-1/4	30-1/2	12-7/8	15-5/8
	mm	457	1829	636	391	864	1877	1887	776	327	396
24 x 60	in	24	60	31-3/4	14-1/8	32-3/8	66	62-3/8	35-1/2	14	17-7/8
	mm	610	1524	806	357	822	1678	1584	901	355	455
30 x 48	in	30	48	39	10	30	57-7/8	50-7/8	36-3/8	13-1/8	15-3/8
	mm	762	1219	991	254	762	1470	1292	924	334	391
36 x 42	in	36	42	45	10	30	57-1/8	45	36-3/8	13-1/8	9-1/2
	mm	914	1067	1143	254	762	1470	1143	924	334	241



75B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	
14 x 78	in	14	78	22-1/2	12-3/4	32-3/4	9-5/8	54-1/4	11-3/8	55-5/8	
	mm	356	1981	572	323	833	245	1377	288	1414	
18 x 72	in	18	72	27	8-15/16	27-23/32	12-15/32	55-1/4	6-9/16	57-13/32	
	mm	457	1829	686	227	704	317	1403	167	1458	
24 x 60	in	24	60	33	10-3/8	27-1/4	18-1/2	41-1/4	8-1/8	43-1/8	
	mm	610	1524	838	265	693	471	1049	206	1094	
30 x 48	in	30	48	38-1/2	13	27-3/4	24	39-1/2	9-7/8	41-1/4	
	mm	762	1219	978	329	705	611	1005	250	1049	
36 x 42	in	36	42	44-1/2	6-3/4	20-5/8	26-1/8	37-5/8	9	39-7/8	
	mm	914	1067	1130	173	525	663	957	229	1012	
100 x 96 120 x 84 140 x 72 160 x 60		CONSULT HOME OFFICE									



MODEL 98B FOR FEEDING UP TO 550 TONS (495 MT) PER HOUR

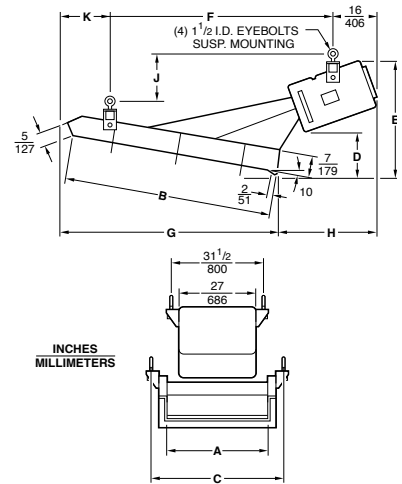
You can move up to 550 tons (495 mt) per hour with the 98B. Standard tray sizes go up to 7 feet (2134 mm) long. Multiple drives are available on all heavy duty models where more than standard length is required. The drive unit is completely enclosed. Capacity is based on 42 x 54 inch (1067 x 1372 mm) tray properly installed with skirtboards.

Power Supply	230V, 460V, or 575V 50–60 Cycles, Single Phase
Full Load Power Input	35 Amp at 230V
Shipping Weight	2600 lb. (1180 kg)

SPECIFICATIONS

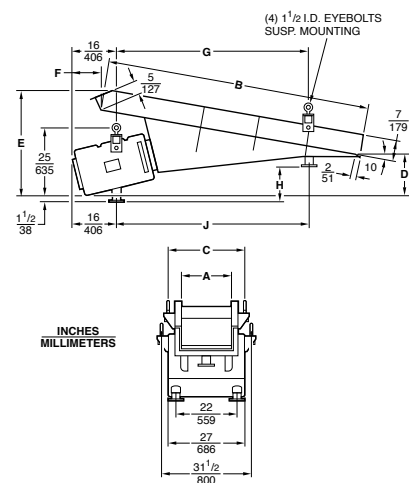
98B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
18 x 96	in	18	96	27-5/8	20-3/4	43-5/8	96-5/8	98	37-3/8	17-3/4	23-1/2
	mm	456	2438	702	528	1108	2453	2490	948	451	595
24 x 84	in	24	84	33-5/8	19-3/4	44-1/8	90-5/8	86	45	19-5/8	24-5/8
	mm	610	2134	854	501	1121	2303	2186	1143	500	626
30 x 72	in	30	72	39-5/8	16-3/8	38-1/4	81-3/4	74-1/4	38-1/2	15-1/2	15-1/4
	mm	762	1829	1006	417	972	2075	1886	977	395	387
36 x 60	in	36	60	45-5/8	16-1/4	38-1/8	69-7/8	62-3/8	42	18-1/4	18-3/4
	mm	914	1524	1159	411	968	1776	1586	1066	463	476
42 x 54	in	41-7/8	54	51-5/8	13-3/8	36	65-1/2	56-5/8	41	15-1/2	16-7/8
	mm	1063	1372	1311	339	914	1663	1438	1043	393	428



98B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J
18 x 96	in	18	96	27-5/8	11-3/8	34-5/8	18-3/8	62-5/8	12-1/8	61-1/4
	mm	457	2438	702	289	878	468	1592	309	1556
24 x 84	in	24	84	33-5/8	11-5/8	32-5/8	14	62-1/4	8-3/4	63-3/8
	mm	610	2134	854	296	829	356	1582	221	1610
30 x 72	in	30	72	39-5/8	12	30-7/8	20-1/4	56-5/8	8-1/2	57-3/4
	mm	762	1829	1006	305	785	514	1440	217	1467
36 x 60	in	36	60	45-5/8	18-1/8	35	22-1/2	43-1/2	14-5/8	44-1/2
	mm	914	1524	1159	460	889	571	1106	373	1130
42 x 54	in	42	54	51-5/8	14-1/2	30	31	57	8-3/4	57-5/8
	mm	1067	1372	1311	368	762	787	1448	222	1464



MODEL 105B FOR FEEDING UP TO 700 TONS (630 MT) PER HOUR

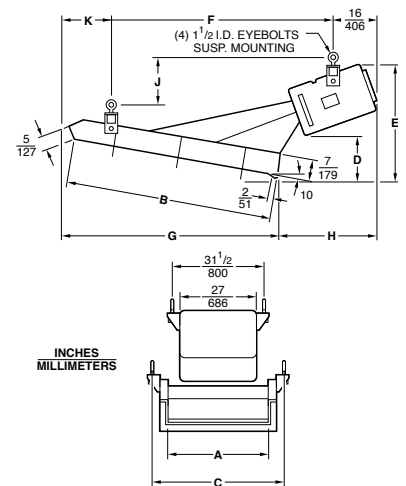
The 105B has a rated capacity up to 700 tons (630 mt) per hour. Rugged construction and the Eriez patented magnetic drive make this an ideal unit for handling abrasives, slag, coal, ores, grains, or wherever controlled feeding of large tonnages is required. Capacity is based on 42 x 60 inch (1067 x 1524 mm) tray properly installed with skirtboards.

Power Supply	230V, 460V, or 575V 50–60 Cycles, Single Phase
Full Load Power Input	40 Amp at 230V
Shipping Weight	2800 lb. (1270 kg)

SPECIFICATIONS

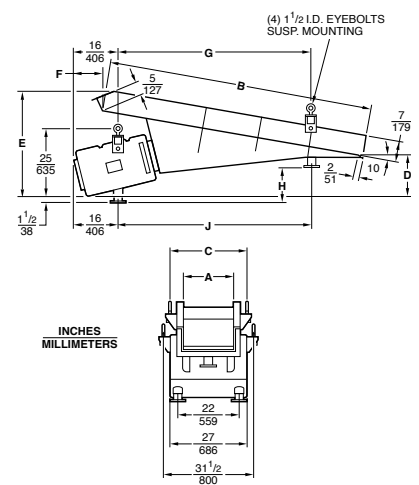
105B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
24 x 96	in	24	96	33-1/2	20-3/8	43	101-1/2	98	36	17-7/8	17-3/16
	mm	610	2438	851	518	1092	2579	2489	914	453	437
30 x 84	in	30	84	39-1/2	18-1/8	40-5/8	89-1/2	86-1/8	35-7/8	16-7/8	17-1/4
	mm	761	2134	1003	459	1032	2274	2189	911	428	438
36 x 72	in	36	72	45-1/2	14-7/8	37-1/2	76-3/4	74-3/8	35-1/8	15-3/4	17-1/2
	mm	914	1829	1156	376	953	1951	1889	894	399	445
42 x 60	in	42	60	51-1/2	14-7/8	36-3/4	73	62-9/16	41-1/8	17	15-1/2
	mm	1067	1524	1308	379	933	1853	1589	1045	433	394
48 x 54	in	48	54	57-1/4	14-1/2	35-7/8	73	56-5/8	43-5/8	16-5/8	12
	mm	1219	1372	1453	369	911	1853	1439	1107	421	305



105B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J
24 x 96	in	24	96	33-1/2	10	32-7/8	9	69-1/4	6-7/8	70-1/4
	mm	610	2438	851	253	834	229	1758	176	1784
30 x 84	in	30	84	39-1/2	10-7/8	31-3/4	13-1/8	60-5/8	8-1/4	61-3/8
	mm	762	2133	1003	276	806	335	1540	209	1559
36 x 72	in	36	72	45-1/2	14-3/4	31-1/8	23-1/2	61-1/8	9-3/8	62-1/4
	mm	914	1829	1158	373	792	597	1553	238	1581
42 x 60	in	42	60	51	13-3/8	24-1/4	25-7/8	57-1/8	10-1/2	58-7/8
	mm	1067	1524	1295	340	615	658	1450	268	1495
48 x 54	in	48	54	57	13-1/8	28-3/4	27	48-1/4	12-1/8	50
	mm	1219	1372	1448	334	731	686	1227	309	1270



MODEL 115B FOR FEEDING UP TO 850 TONS (765 MT) PER HOUR

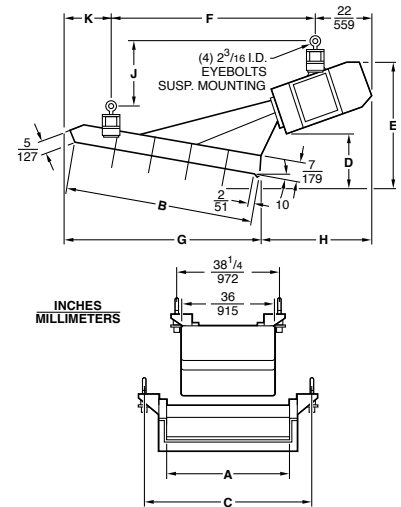
The 115B facilitates the smooth and dependable transfer of abrasives, slag, coal, ores and grain at up to 850 tons (765 mt) per hour. The unit represents an excellent choice whenever controlled feeding must be accomplished in a cost-effective manner. Specially designed to withstand many years of hard work, the unit's rugged construction includes a 48 x 72 inch (1215 x 1828 mm) tray and below-deck or overhead-drive (please specify).

Power Supply	230V, 460V, or 575V 50-60 Cycles, Single Phase
Full Load Power Input	38 Amp at 460V
Shipping Weight	5075 lb. (2302 kg)

SPECIFICATIONS

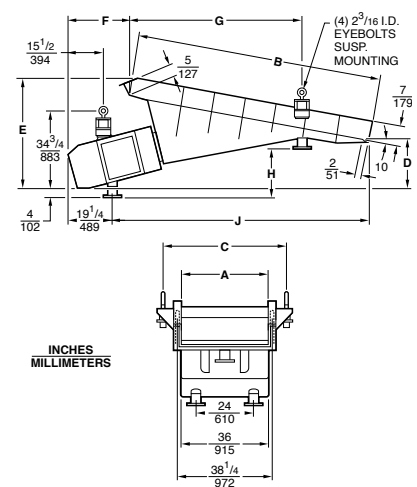
115B OVERHEAD-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J	K
30 x 108	in	30	108	45-1/2	22-7/8	47-1/4	114-5/8	110	44-3/4	24	19
	mm	762	2741	1156	582	1200	2912	2793	1137	610	483
36 x 96	in	36	96	51-1/4	22-1/2	46-1/2	110-3/8	98-3/8	51-3/4	23-5/8	18-5/8
	mm	914	2439	1302	573	1181	2804	2499	1314	599	473
42 x 84	in	42	84	57-1/4	20-3/8	44-1/4	101	85-1/8	52-5/8	24-5/8	15-5/8
	mm	1067	2134	1454	517	1124	2567	2163	1336	626	397
48 x 72	in	48	72	63-1/4	20-1/4	43-1/2	87-1/2	74-1/2	53-1/2	26-5/8	19-1/2
	mm	1219	1829	1607	515	1105	2223	1893	1360	678	494
54 x 60	in	54	60	69-1/4	12-1/8	37	72-7/8	62-5/8	44-5/8	22	13-1/8
	mm	1372	1524	1757	307	940	1850	1590	1134	559	335



115B UNDER-DRIVE STANDARD TRAYS

SIZE		A	B	C	D	E	F	G	H	J
30 x 108	in	30	108	45-1/4	12-5/8	37-3/4	24-7/8	74-3/8	14-3/4	113-1/4
	mm	762	2743	1149	320	960	632	1889	375	2877
36 x 96	in	36	96	51-1/4	14	37-1/8	31-3/8	81-1/2	12	108
	mm	914	2438	1302	356	944	798	2070	304	2743
42 x 84	in	42	84	57-1/4	14-3/8	35-1/4	32-1/8	54-1/8	14-1/8	96-7/8
	mm	1067	2134	1454	367	897	817	1375	358	2462
48 x 72	in	48	72	63-3/8	18-1/2	33-1/4	35-1/2	43-3/8	14-3/8	88-3/8
	mm	1219	1829	1609	471	846	902	1101	365	2245
54 x 60	in	54	60	69-1/4	11-3/8	28-1/8	37-1/4	47-1/2	8	78-1/4
	mm	1372	1524	1759	288	713	945	1206	203	1989



HI-VI FEEDER CONTROLS

A variety of control arrangements, some of them illustrated below, are available for use with Eriez Heavy Duty Feeders.

All of these simple, rugged controls have the basic function of varying the applied line voltage from zero to 100%, thus varying the feed rate from zero to maximum. Stepless control assures the exact feed rate needed for any application and eliminates surges when moving from one increment to another.

No rectifier is needed with Eriez Hi-Vi controls; they can be wired into any AC line.

Controls are enclosed in compact steel housings. For dusty or hazardous locations

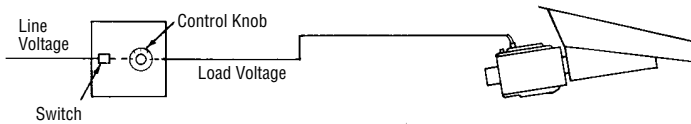
special gasketed and totally enclosed electrical housings designed to provide protection against oil, water, dust, etc. can be provided..



Figure 4. Eriez Feeders are available with signal following controls that accept a signal from your processing equipment or PLC to automatically increase or decrease feed rate.

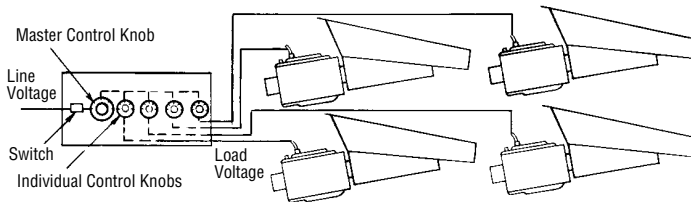
STANDARD MANUAL CONTROL

A variable transformer or potentiometer controls feeder output with excellent linearity from 0 to 100% of capacity.



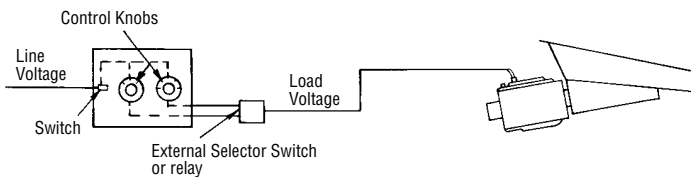
MULTIPLE MANUAL CONTROL

Individual variable transformers or potentiometers for a number of feeders. A master may be added to increase or decrease total output. Individual controls need not be readjusted to maintain a preset percentage of the total product.



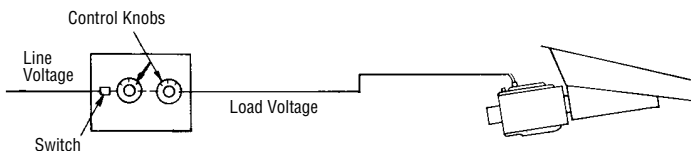
DUAL-RATE CONTROL

Two variable transformers or potentiometer in a single housing, one set at a fast feed rate and the other at a dribble feed for accuracy.



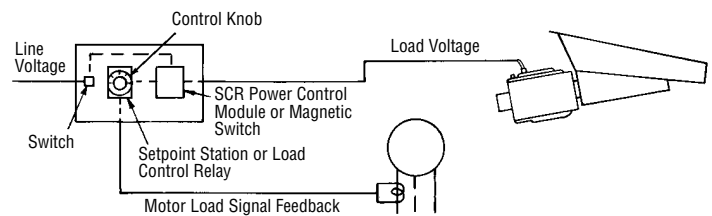
VERNIER CONTROL

Two variable transformers or potentiometers wired in tandem to "fine tune" the output of a single feeder for extremely precise control.



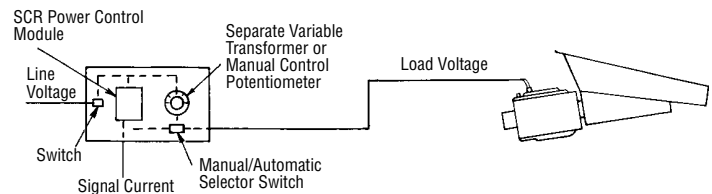
LOAD MONITORING CONTROL

Motor load is monitored to reduce or increase feed when motor demand becomes excessive, to keep crushers, grinders, impactors operating at maximum without overloading.



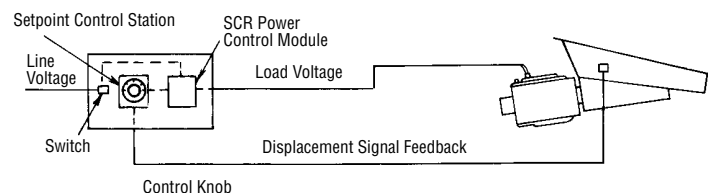
SCR CONTROL

Feeder output is varied automatically by the use of a small current signal to increase or decrease feed rate. For use in systems where process variables can be converted into a varying current signal.



CONSTANT FEED RATE CONTROL

A sensor on the feeder tray is used to send a signal to the control, maintaining a constant rate of feed.



HVF MECHANICAL FEEDER

The Eriez Model HVF mechanical feeders are simple, rugged, vibrating machines that move high volumes of bulk materials reliably and economically.

The feeder is a two-mass vibrating system, spring coupled, excited by a motor-driven eccentric shaft. Adjustable-angle rubber springs—each one of which can be removed and replaced in less than two minutes if required—transmit the exciting force and can “fine tune” the motion of the trough to optimize the flow rate for a specific application.

The remarkably compact, straight-line design of the Model HVF feeder presents an extremely low profile; minimum headroom is required for installation.

The ability of the specially designed rubber springs to amplify the trough stroke results in low horsepower requirements. Power is provided by a standard three-phase, 230/460 volt TEFC 60 Hz motor. Explosion-proof motors are also available.

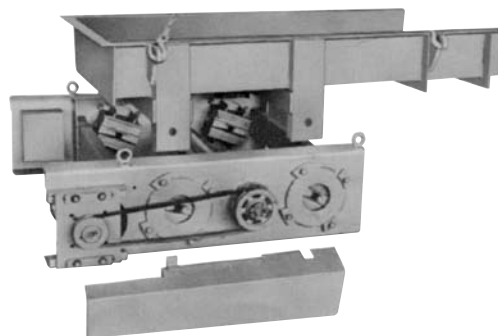
Accurate control of flowrate is achieved by the standard control, i.e. hand-wheel adjustable, variable-speed sheaves. A variable voltage controller and a variable frequency controller, each supplied as a separate item, are available as options.

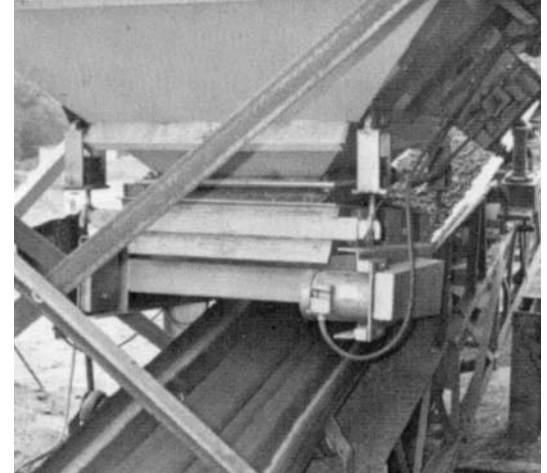
A wide variety of trough sizes and types is available to match the feeder to specific application requirement. Included are troughs of mild steel and stainless steel; liners of abrasion-resistant steel, stainless steel, polyethylene, rubber or other materials; and tubular troughs, as well as grizzly and

screening troughs. conveyors upto 30' (9.1 m) or more in length are also available.

An in-construction view (below) of an Eriez HVF feeder as the trough is being lowered into position shows the rugged, yet simple, design. A standard three-phase motor, mounted behind the base frame at left, is belt-connected to a variable-pitch sheave factory set to drive the eccentric shaft at approximately 1100 rpm. The vibratory motion created by the shaft is amplified and transmitted to the trough by the polyisoprene springs, to which the trough is bolted. Heavy-duty construction throughout assures long life under the most difficult operating conditions.

Feeders are available with grizzly troughs for a variety of scalping applications and with screened troughs for even greater control in separation by size.





This Model HVF-30 feeder with a 30" wide by 60" long (762 x 1524 mm) trough operating in a stone quarry easily handles 400 tons per hour (363 mtph). It is suspended by special vibration isolator assemblies, one end attached to trough-hanger brackets and the other to mounting brackets welded to the hopper wall.

A rear view of the Model HVF feeder illustrates the minimal amount of head-room required for installation and the easy accessibility of the motor and drive components.

FEEDER MODEL SELECTION GUIDE

Model Number	Capacity*		Rated Trough W x L	Width	Length								
					36" 914mm	48" 1219mm	60" 1524mm	72" 1829mm	84" 2134mm	96" 2438mm	108" 2743mm	120" 3048mm	
	Sand	Coal	Horsepower/Kilowatts Required										
HVF-18	135tph	65tph	18" x 36"	18"	1/3 hp	1/2 hp	1/2 hp	3/4 hp	1 hp				
	120mtph	100mtph	457mm x 914mm	457mm	.25 kw	.37 kw	.37 kw	.56 kw	.75 kw				
HVF-24	245tph	125tph	24" x 48"	24"	1 hp	1 hp	1-1/2 hp	1-1/2 hp	2 hp				
	220mtph	110mtph	610mm x 1219mm	610mm	.75 kw	.75 kw	1.1 kw	1.1 kw	1.5 kw				
HVF-30	380tph	190tph	30" x 60"	30"	1-1/2 hp	1-1/2 hp	1-1/2 hp	2 hp	2 hp	3 hp			
	345mtph	175mtph	762mm x 1524mm	762mm	1.1 kw	1.1 kw	1.1 kw	1.5 kw	1.5 kw	2.2 kw			
HVF-36	470tph	235tph	36" x 60"	36"	1-1/2 hp	2 hp	2 hp	2 hp	3 hp	5 hp	5 hp		
	425mtph	210mtph	914mm x 1524mm	914mm	1.1 kw	1.5 kw	1.5 kw	1.5 kw	2.2 kw	3.7 kw	3.7 kw		
HVF-42	625tph	315tph	42" x 72"	42"			3 hp	3 hp	3 hp	5 hp	5 hp		
	570mtph	285mtph	1067mm x 1829mm	1067mm			2.2 kw	2.2 kw	2.2 kw	3.7 kw	3.7 kw		
HVF-48	730tph	365tph	48" x 72"	48"			3 hp	3 hp	5 hp	5 hp	5 hp		
	660mtph	330mtph	1219mm x 1829mm	1219mm			2.2 kw	2.2 kw	3.7 kw	3.7 kw	3.7 kw		
HVF-60	1000tph	500tph	60" x 84"	60"					5 hp	5 hp	7-1/2 hp	7-1/2 hp	
	900mtph	450mtph	1524mm x 2134mm	1524mm					3.7 kw	3.7 kw	5.6 kw	5.6 kw	
HVF-72	1450tph	725tph	72" x 108"	72"						7-1/2 hp	7-1/2 hp	10 hp	
	1320mtph	660mtph	1829mm x 2743mm	1829mm						5.6 kw	5.6 kw	7.5 kw	
HVF-84	1800tph	900tph	84" x 120"	84"							10 hp	10 hp	
	1630mtph	820mtph	2134mm x 3048mm	2134mm							7.5 kw	7.5 kw	

* Capacities are based on dry sand weighing 100 lb/cu ft (1600 kg/cu m) and coal weighing 50 lb/cu ft (800 kg/cu m) with the trough at a 10° downslope, and skirt boards included on hopper for maximum material depth in tray.

Note: Horsepower subject to change depending on trough thickness, liners, etc. Trough lengths and widths other than those shown here are available. Capacities shown are for illustration only. Actual capacity vary due to installation factors such as downslope and hopper arrangement and/or material properties such as weight and moisture content. Consult Eriez for your specific application.

SPECIFICATIONS

ENGLISH (inches, pounds, horsepower)

Model	W	L	D	BW	B	E	F	G	H	K	M	N	OH	R*	T	Wght	HP
18	18	36	7	28	36	11-3/4	26	11	31-3/4	9	4-1/2	2-1/2	11	26	1/8	300	1/3
24	24	48	7	36-7/8	45-1/2	11	31-7/8	11	45	10-9/16	4-1/2	2-1/2	13	38-3/8	1/4	680	1
30	36	60	7	42-1/2	45-1/2	5	37-1/2	5	57	10-9/16	5	3	19-1/2	44	1/4	810	1-1/2
36	36	72	9	51-1/8	54	8	48	9	57-1/4	14	5-1/2	3	27	60	1/4	1230	2
42	42	72	9	57	54	5	54	6	57-1/4	14	6	3-1/2	24	66	1/4	1270	3
48	48	84	9	66	69	18	62	9	45-1/2	16	6-1/2	3-1/2	24	62	5/16	2250	5
60	60	96	9	78	69	22-1/2	74	9	62	16	6-1/2	3-1/2	36	74	3/8	2600	5
72	72	96	9	90	87	22-1/2	86	15	82	16	8	4	24	86	3/8	3550	7-1/2
84	84	120	9	102	104	15-1/2	98	7	81-1/2	16	8	4	23	98	3/8	4900	10

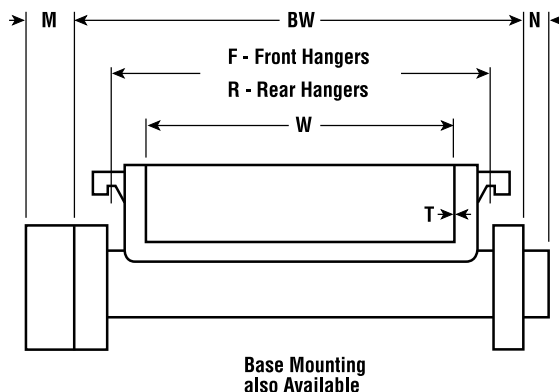
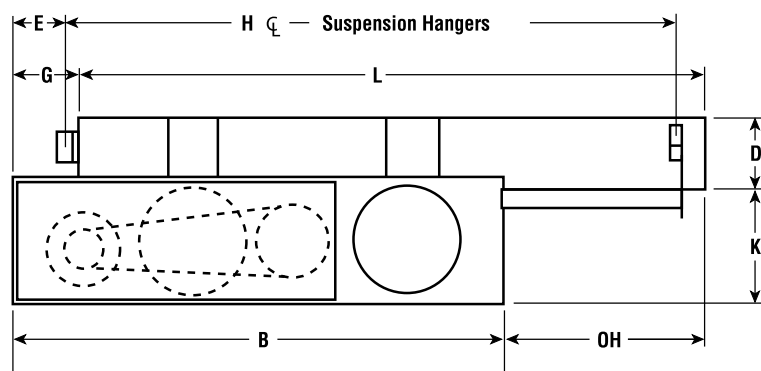
* Can be made same as front hangers.

METRIC (millimeters, kilograms, kilowatts)

Model	W	L	D	BW	B	E	F	G	H	K	M	N	OH	R*	T	Weight	KW
18	457	914	178	762	914	298	660	279	806	228	114	64	279	660	3	136	0.25
24	610	1219	178	937	1156	279	810	279	1143	268	114	64	343	975	6.4	308	0.75
30	762	1524	178	1080	1156	127	953	127	1448	268	127	76	495	1118	6.4	367	1.12
36	914	1829	229	1299	1372	203	1219	229	1454	356	140	76	686	1524	6.4	558	1.49
42	1067	1829	229	1448	1372	127	1372	152	1454	356	152	89	610	1676	6.4	576	2.24
48	1219	2438	229	1676	1753	457	1575	229	1156	406	165	89	914	1575	8	1021	3.73
60	1524	2134	229	1981	1753	572	1880	533	1575	406	165	89	610	1880	9.5	1179	3.73
72	1829	2438	229	2286	2210	572	2184	381	2083	406	203	102	610	2184	9.5	1610	5.60
84	2134	3048	229	2591	2642	394	2489	178	2070	406	203	102	584	2489	9.5	2223	7.46

* Can be made same as front hangers.

Dimensions may vary for specific applications and may change without notice.



HOPPER DESIGN FOR OPTIMUM PERFORMANCE

HOPPER DESIGN

If you plan to build a new hopper or modify an existing one for installation with an Eriez vibratory feeder or screen, its design should adhere to certain guidelines in order to obtain the rated capacity of the feeder, achieve the required discharge or delivery rate, prevent bridging, arching or ratholing.

Along with the hopper design, flow velocity (v) is dependent on material characteristics such as particle size, size distribution and moisture content. Rated capacities require ideal conditions. Refer to Figure 1 for the factors utilized in estimating feeder capacity.

IMPORTANCE OF THE TRANSITION SECTION

A hopper's transition section - the part of the structure between the main bin and the feeder - plays a very significant role in obtaining the rated capacity of a feeder. *An improperly designed hopper or transition section can reduce feeder capacities by as much as 30%.*

The bottom of the hopper, for example, should be almost as wide as the feeder tray to provide full-width feeding. Clearance of 1" (25 mm) between hopper and tray is recommended.

Throat Opening

For random sized material, the hopper throat opening (T) should be 2-1/2 - 3 times the largest particle size. For near-sized material, the hopper throat opening (T) should be 3 times the particle size. The throat opening should not exceed 30% of the tray length, however, or "headloading" may overpower the ability of the feeder to move the material. In some cases, load deflectors (i.e., angle iron) will be required to obtain satisfactory operation.

Gate Height

The gate height (H) should increase proportionally to the particle size and to the depth of flow (measured at the end of the trough) required to deliver the desired discharge rate. Generally speaking, the gate height should be at least twice the size of the largest particle size, adjustable by means of a slide gate. During operation, the gate height should be 1.2 - 1.5 times the depth of material (d) needed to meet capacity requirements.

Uniform flow patterns also require that the gate height (H) be 1 - 2 times (2 is preferable) the throat dimension (T). When h becomes less than T , material flow patterns are not uniform and usually result in dead zones where little or no flow occurs.

ACHIEVING UNIFORM FLOW

There is a natural tendency of feeders to draw material from the front portion of the hopper. However, a properly designed hopper will cause material to also flow onto the rear of the feeder trough, creating a uniform flow pattern (Figure 2).

The rear wall of the hopper's transition section should be quite steep - at a slope of 60° or more - to assure flow of material along the rear wall surface. In contrast, the slope of the front wall may be more shallow; an angle 5 - 10° less than the rear wall is acceptable.

Figure 3 illustrates a properly designed hopper which promotes good material flow while minimizing material load on the feeder.

INSTALLATION OF SKIRTBOARDS

To obtain the rated capacity of larger Eriez feeders, a burden depth higher than the tray sides must be carried by the feeder. To contain the material and prevent spillover, skirtboards should be installed on both sides of the gate opening, extending to the end of the trough.

To prevent any hang-ups or restrictions of material flow, the skirt boards should flare slightly, becoming wider at the discharge end, and also should taper away from the bottom of the feeder along the length of the trough. The flare and taper rate should be at least 1/2" per foot (40 mm per m) of feeder length.

Skirt boards are nearly always required in installations where the feeder pan is given downslope in order to use gravity to boost delivery rate. Some installations have increased capacity by more than 50% with a 10° downslope. As a rule of thumb, each degree of downslope increases delivery by 2%.

A minimum of 1" (25 mm) clearance must be maintained between the skirtboards and the feeder tray. Movement of the tray must not be restricted by rigid attachment to nearby structures.

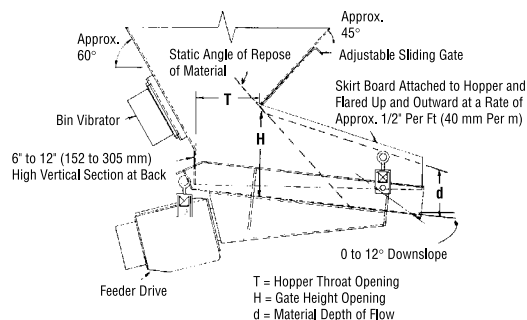


Figure 3. Typical Hopper and Skirtboard Installation

The capacity of a vibratory feeder is given by:

$$Q = \frac{W \times d \times D \times v}{K}$$

Where:	English	Metric
Q = Capacity	TPH	MTPH
W = Tray width	inches	mm
d = Material depth	inches	mm
D = Density	lb/cu ft	g/cu cm
v = Flow velocity	ft/min	m/min
K = Constant	4,800	16,700

Figure 1. Determining Vibratory Feeder Capacity

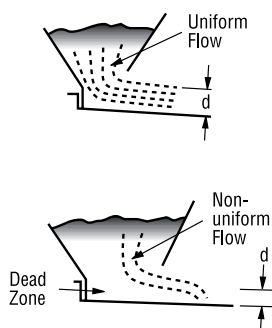


Figure 2. Determining Gate Height

GRIZZLIES AND SPECIAL TRAYS

Vibratory feeders with grizzly trays are used for a variety of scalping or coarse screening operations. Screened trays provide even greater control in separation by size, dedusting or dewatering. On all types of trays, the advantages of gentle material handling and

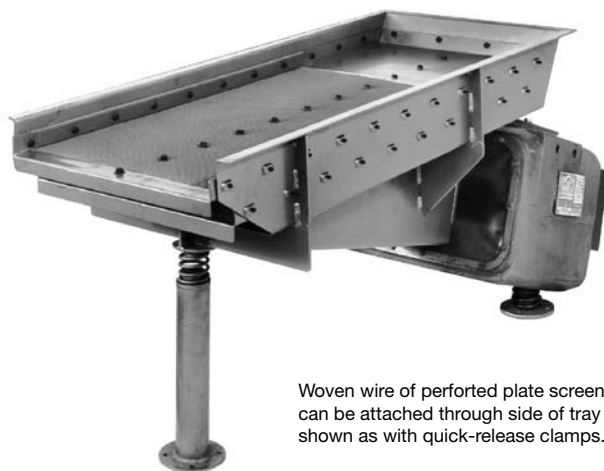
accurate control of feed rates are retained. Eriez' long experience in designing special trays for special applications, plus computerization of vibratory feeder variables, means that unusual requirements can be met quickly and economically.



Grizzly deck allows fine materials to flow through screen quickly and large pieces to discharge off end of tray.



Feed with a rod-deck screen. These are well suited for materials where water is present.



Woven wire or perforated plate screen can be attached through side of tray as shown as with quick-release clamps.

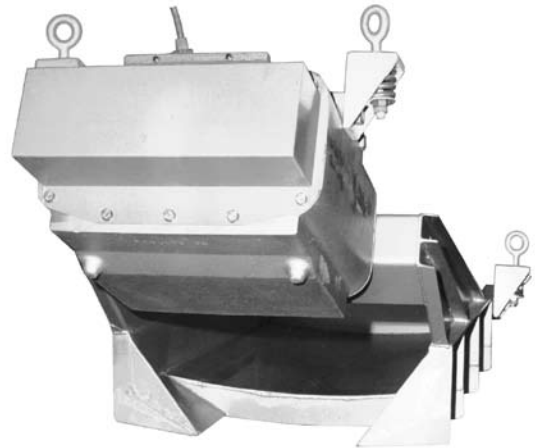
GRIZZLIES AND SPECIAL TRAYS



A three-deck screening feeder discharges oversize and undersize products to one side while the desired material flows off the end.



Totally enclosed trays are used to protect the product, or in some cases, the environment, by containing dust within the system.



The tray on this overhead-drive unit channels the feed to the center of the conveyor belt.

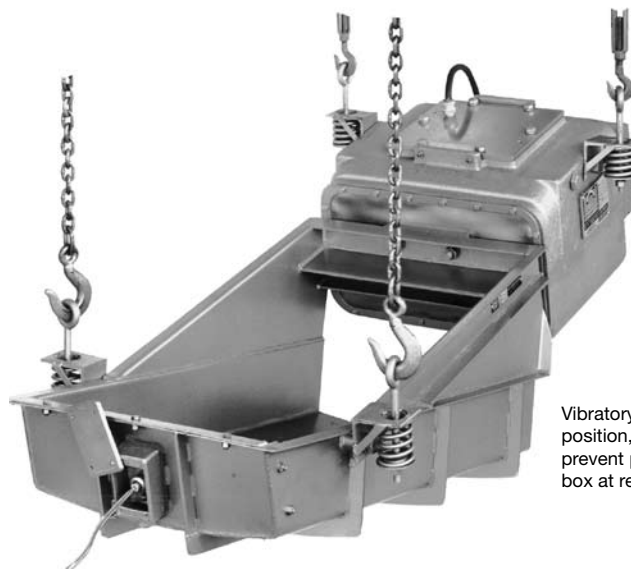
GRIZZLIES AND SPECIAL TRAYS



Vibratory sand classifier is used in conjunction with wood fired boiler, to reclaim unburned wood for recirculation through boiler. Screens are used to sift out ash and sand.



Screening feeders take many forms, from removing fines to separating plastic parts as shown here.



Vibratory drives can be produced in the overhead position, and tray liners can be electrically heated to prevent product from sticking to tray. (Note junction box at rear of tray).

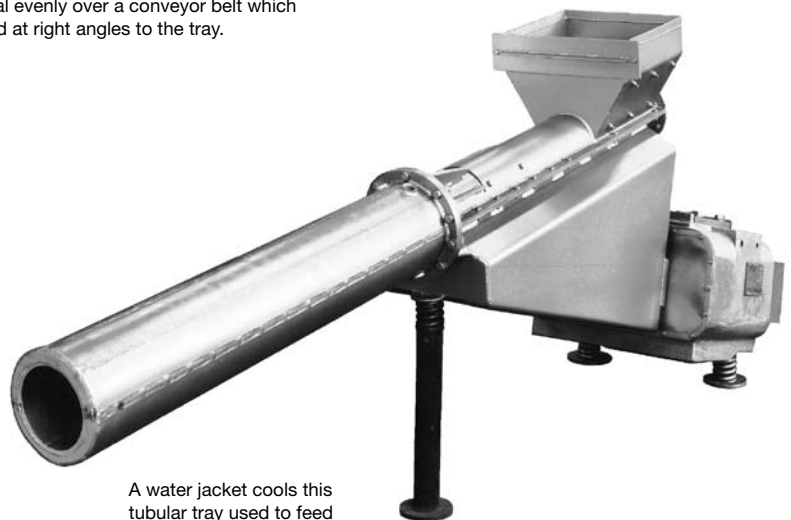
GRIZZLIES AND SPECIAL TRAYS



Cascading screening decks on a portable unit tumble the material for better separation.



The tray on this feeder is slotted at an angle to spread material evenly over a conveyor belt which will be installed at right angles to the tray.

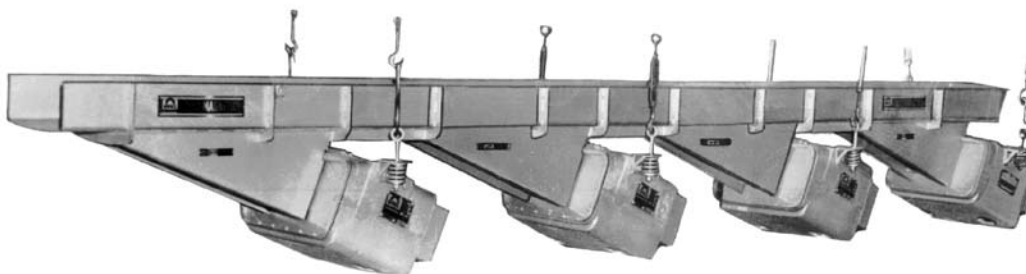
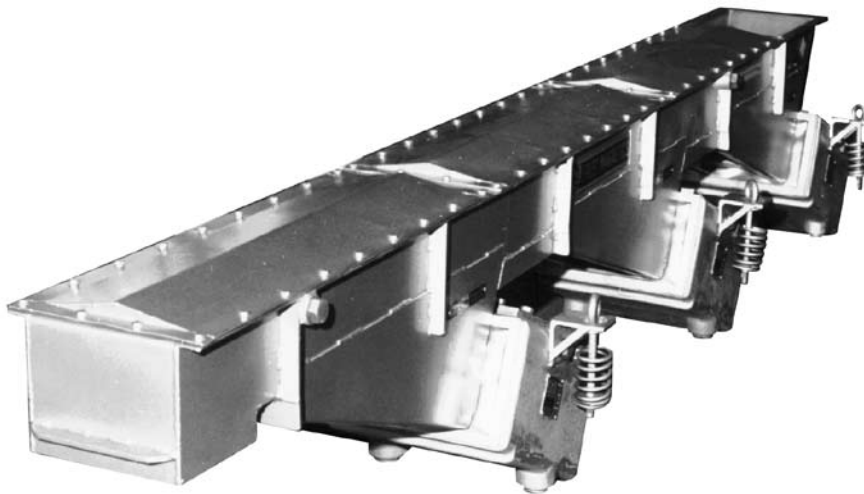


A water jacket cools this tubular tray used to feed cullet into a furnace.

VIBRATORY CONVEYORS

Multiple drive units, mounted either under or over a single tray, extend the advantages of vibratory feeding to conveying. Variable transformer controls give precise control of feed rates, installation is simple and

maintenance is low. Either open or closed trays are available in a variety of widths, with intake or discharge openings as required. Lengths up to 65 feet (20 m) can be provided.





PRELIMINARY VIBRATORY SPECIFICATION SHEET

DATE: _____
 CUSTOMER NAME: _____ NO. OF UNITS: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP: _____
 CONTACT: _____ TITLE: _____
 PHONE: _____ FAX: _____
 EMAIL: _____

APPLICATION: Material fed from _____ to feeder
 and from feeder to _____

PRODUCT: _____ MOISTURE %: _____
 BULK DENSITY: _____ PRODUCT TEMP: _____
 CAPACITY: _____ AMBIENT TEMP: _____
 PARTICLE SIZE: _____ ABRASIVENESS: _____
 ANGLE OF REPOSE: _____ CORROSIVENESS: _____

Is feeder being cycled: YES _____ NO _____ If so how often? _____
 Is the feeder being powered by a portable generator? YES _____ NO _____

EQUIPMENT

OPERATING VOLTAGE: _____ Hz: _____
 TRAY SIZE: W _____ X L _____ X D _____
 UNDERDRIVE: O.H.D. _____ DOWNSLOPE _____ DEG. MTG (BASE/SUSP): _____

TRAY DESIGN

OPEN: _____ ENCLOSED: _____ TUBE: _____
 INLET TYPE: _____ OUTLET TYPE: _____
 TRAY MATERIAL: MS _____ SS _____ SANITARY _____
 PAINT: STANDARD _____ EPOXY _____ OTHER _____
 TRAY LINERS: SIDE & REAR _____ BOTTOM _____
 HOPPER REQUIRED: YES _____ NO _____ What Size? _____
 CONTROL REQUIRED: YES _____ NO _____ NEMA Enclosure Type? 1 12 4 4X
 SIGNAL FOLLOWING INPUT: 4-20 MA _____ 0-10 VDC _____ OTHER _____
 TOP SCREEN: TYPE _____ MESH _____ WIRE DIA. _____
 OPENING _____ SCREEN AREA _____
 MIDDLE SCREEN: TYPE _____ MESH _____ WIRE DIA. _____
 OPENING _____ SCREEN AREA _____
 BOTTOM SCREEN: TYPE _____ MESH _____ WIRE DIA. _____
 OPENING _____ SCREEN AREA _____

Note: Some safety warning labels or guarding may have been removed before photographing this equipment

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