

**GRIZZLY FEEDERS**

## Boosting throughput of primary crushers

A robustly constructed range of vibratory machines extending from units 0.5m wide x 2m long up to units 1.5m x 4.5m. The machines are intended primarily for use ahead of primary crushers and are designed to handle large run-of-quarry stone, take the impact of dumped loads and smooth out the flow of material to the crusher. All models have a flat reinforced impact area followed by a sloping grizzly bar section. The longer machines are fitted with two stepped, grizzly bar sets.

*Replaceable wear sections of mild steel, manganese steel or rubber are fitted depending on the duty specified.*



### CONSTRUCTION

Of rugged construction throughout, Grizzly Feeders are designed to handle run of quarry stone up to 1000mm lump size. The plain section is lined with a 12.5mm minimum thick replaceable plate in mild steel as standard, with abrasion resistant manganese steel and rubber elements as options.

### VIBRATORS

All machines in the Grizzly Feeder range are powered by the Invicta BL Series vibrators to give guaranteed performance for either intermittent or continuously rated duties. All vibrators are dust and weatherproof with protection to IP66. The vibrators operate from a 3 phase supply, 50 or 60 Hz up to 650 volts.

### THROUGHPUTS

Stated throughputs are based on a material density of 1.6 t/m<sup>3</sup> and a bed depth equal to the trough height and are, therefore, very conservative. Higher outputs can be achieved but, if the bed depth is increased, the amount of fines in the feed should be considered because of the risk of carry-over of fines in the product. Grizzly bar sections have a high capacity rating owing to the long open spacing between the bars. However, they can also pass elongated or slabby material, which may not be acceptable for all applications.

### THROUGHPUTS

The area needed for the Grizzly Bar Section may be calculated from the following empirical formula and tables. The resulting figure provides a guide to the Grizzly Feeder model required (see table on page 2 dimension A x dimension I).

**Grizzly Bar area (m<sup>2</sup>) =  
Tonnes per hour of undersize  
Capacity/m<sup>2</sup> A x Factor B x Factor C**

- CAPACITY A: Material at 1.6t/m<sup>3</sup> with 75% Efficiency
- FACTOR B: Percentage oversize in the feed.
- FACTOR C: Percentage material less than 1/2 Nominal bar spacing.

CAPACITY A - material at 1.6t/m<sup>3</sup> with 75% efficiency rate

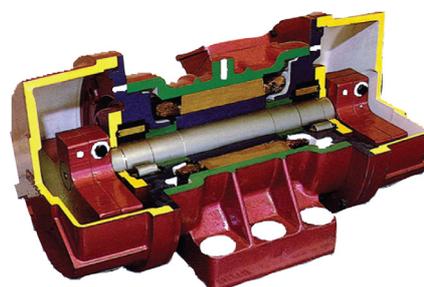
Spacing of Bars	25	50	75	100	125	150	175	200
Capacity/m <sup>2</sup>	48.9	67.8	90	111	166	191	212	258

FACTOR B - % oversize in the feed

%	10	20	30	40	50	60	70	80	85	90
B	1.05	1.01	0.98	0.95	0.90	0.86	0.80	0.70	0.64	0.55

FACTOR C - % material less than 1/2 nominal bar spacing

%	10	20	30	40	50	60	70	80	85	90
C	0.55	0.70	0.80	1.00	1.20	1.40	1.80	2.20	2.50	3.00



# Grizzly Feeders



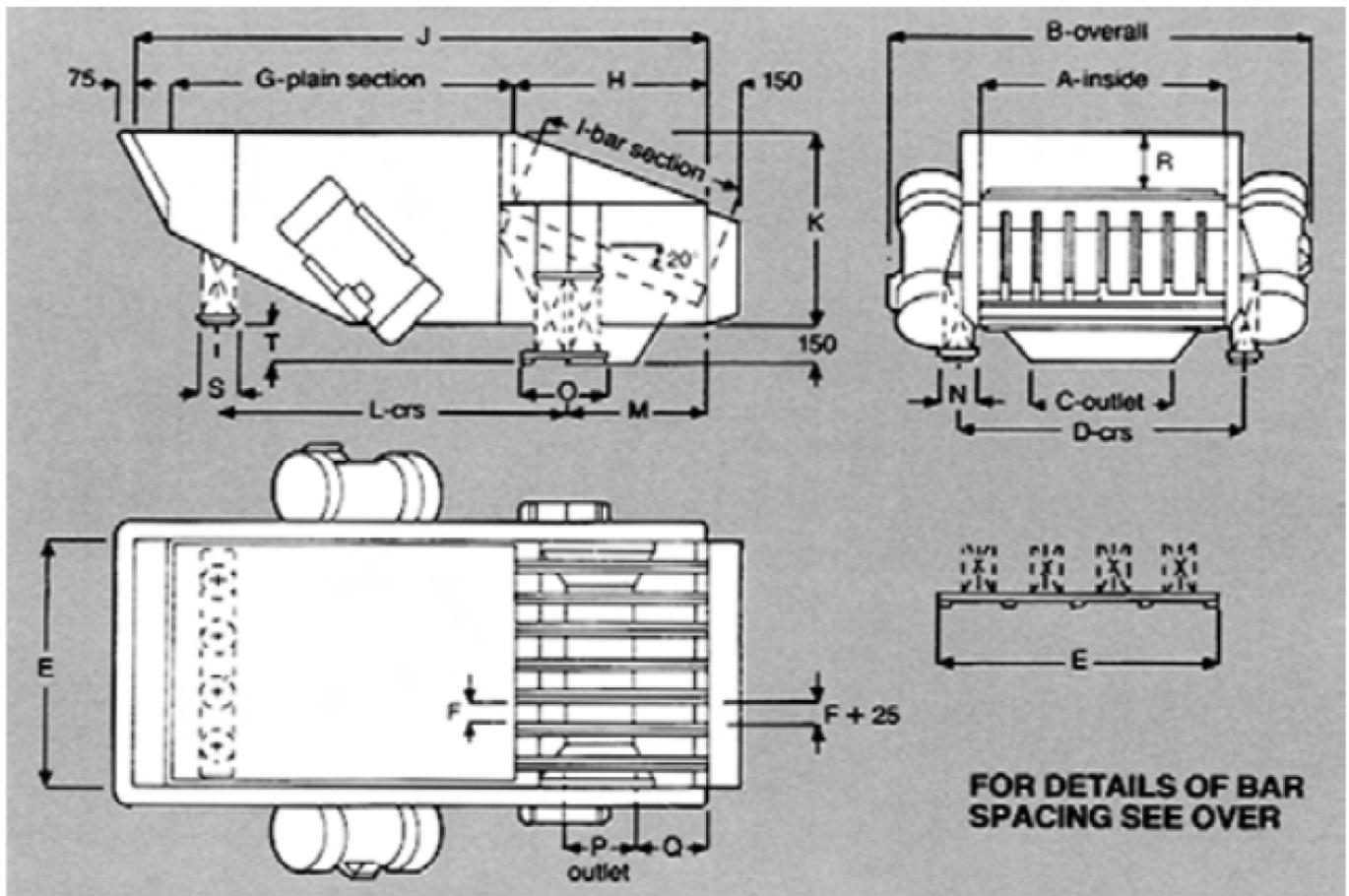
## TECHNICAL SPECIFICATION Grizzly bars at 20 degrees decline

TYPE	A	B	C	D	E	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Kw	TP H	Wt (Kg)
GF 610/2000-406	610	1200	229	815	510	1060	840	915	2000	760	1200	545	150	380	305	305	187	305	100	2.6	100	1380
GF 610/2440-456	610	1300	229	815	510	1510	846	915	2502	838	1467	610	150	380	305	305	267	305	160	4.6	205	1520
GF 762/2440-456	762	1450	381	967	660	1510	846	915	2502	838	1467	610	150	380	305	305	267	305	160	4.6	220	1660
GF 610/2440-506	610	1360	229	815	510	1510	846	915	2502	838	1467	610	150	380	305	305	267	305	160	5.2	270	1600
GF 762/2440-506	762	1512	381	967	660	1510	846	915	2502	838	1467	610	150	380	305	305	267	305	160	5.2	300	1740
GF 915/2440-506	915	1727	533	1118	813	1510	846	915	2502	838	1524	610	150	380	305	305	267	100	160	5.2	325	1890
GF 1066/2440-506	1066	1880	686	1270	965	1510	846	915	2502	838	1524	610	150	380	305	305	267	100	160	5.2	345	2030
GF 1220/2440-506	1220	2032	838	1422	1118	1510	846	915	2502	838	1524	610	150	380	305	305	267	100	160	5.2	360	2175
GF 915/2440-556	915	1727	533	1118	813	1510	846	915	2502	838	1524	610	150	380	305	305	267	100	160	8.0	475	2020
GF 1066/2440-556	1066	1880	686	1270	965	1510	846	915	2502	838	1524	610	150	380	305	305	267	100	160	8.0	510	2160
GF 1220/2440-556	1220	2032	836	1422	1118	1510	846	915	2502	838	1524	610	150	380	305	305	267	100	160	8.0	540	2300
GF 915/3660-556	915	1702	538	1162	838	2210	1270	1370	3632	1003	2032	990	200	533	508	280	292	200	205	8.0	400	2500
GF 1066/3660-556	1066	1854	686	1315	1016	2210	1270	1370	3632	1003	2032	990	200	533	508	280	292	200	205	8.0	415	2730
GF 1220/3660-556	1220	2006	838	1467	1168	2210	1270	1370	3632	1003	2032	990	200	533	508	280	292	200	205	8.0	435	2920
GF 1220/3660-606	1220	2108	838	1467	1168	2210	1270	1370	3632	1003	2032	990	200	533	508	280	292	200	205	12.4	470	3800
GF 1525/3660-606	1525	2413	1143	1772	1473	2210	1270	1370	3632	1003	2032	990	200	533	508	280	292	200	205	12.4	520	4090
*GF 1220/4270-606	1220	2130	838	1467	1168	2445	1675	1820	4270	1250	2545	925	200	535	950	280	292	200	330	12.4	420	4150
*GF 1525/4220-606	1525	2435	1143	1772	1473	2445	1675	1820	4270	1250	2545	925	200	535	950	280	292	200	330	12.4	465	4450
*GF 1220/4175-606	1220	2130	838	1467	1168	3050	1675	1820	4875	1250	3150	925	200	535	950	280	292	200	330	12.4	375	4500
*GF 1525/4875-606	1525	2435	1143	1772	1473	3050	1675	1820	475	1250	3150	925	200	535	950	280	292	200	330	12.4	440	4800

\* Stepped deck grizzly bar arrangement

WIDTH	NUMBER OF GRIZZLY BARS											
	3	4	5	6	7	8	9	10	11	12	13	14
610	96	62	39	25	-	-	-	-	-	-	-	-
762	134	92	64	45	30	-	-	-	-	-	-	-
915	-	122	89	65	48	34	-	-	-	-	-	-
1066	-	152	114	87	67	51	38	28	-	-	-	-
1220	-	-	140	109	86	68	53	42	32	-	-	-
1525	-	-	-	152	124	102	84	70	57	47	38	30

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## ELECTRICAL CONTROL EQUIPMENT

Grizzly Feeders may be supplied complete with Variable Feed Rate Controllers. They incorporate the very latest frequency inverter technology for applications that require frequent adjustment of the feed rate. For other applications twin vibrator phase reversal braking starters which enable the unit to stop within seconds may be suitable. The number of stop/starts that may be made per hour is limited depending upon conditions. Consult us about your Electrical control Equipment requirements.

