

Halley & Mellowes has been supplying Mogensen Vibratory Feeders to the mineral extraction, mining, chemical processing, animal feed, food processing and other industries for nearly 30 years. Handling the many different applications has afforded our designers wide ranging experience in vibratory feeder technology. Resulting from this field experience, Halley & Mellowes has developed two ranges of Mogensen vibratory feeders, up to a maximum of 1750mm long. They are available with variable rate control or as fixed rate units.

Type TR1 vibratory feeders

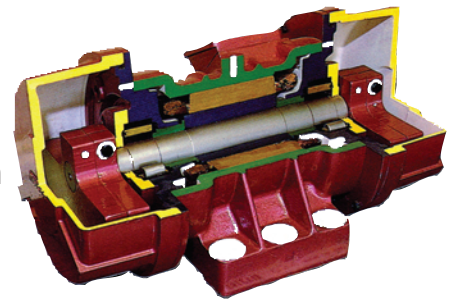
- Straight line action
- Powered by twin vibrators, rear mounted
- Suitable for horizontal or declined installation
- Maximum length 1750mm

Type SR1 vibratory feeders

- Rotary action
- Powered by a single vibrator
- Declined at 10 degrees
- Maximum length 1500mm

Construction

Of rugged construction throughout, generally from 6mm thick mild steel plate, both single and twin vibrator models are designed to handle wide ranges of materials included as standard is a 6mm thick mild steel bottom liner with abrasion resistant manganese, stainless steel, non stick or rubber liners as options.



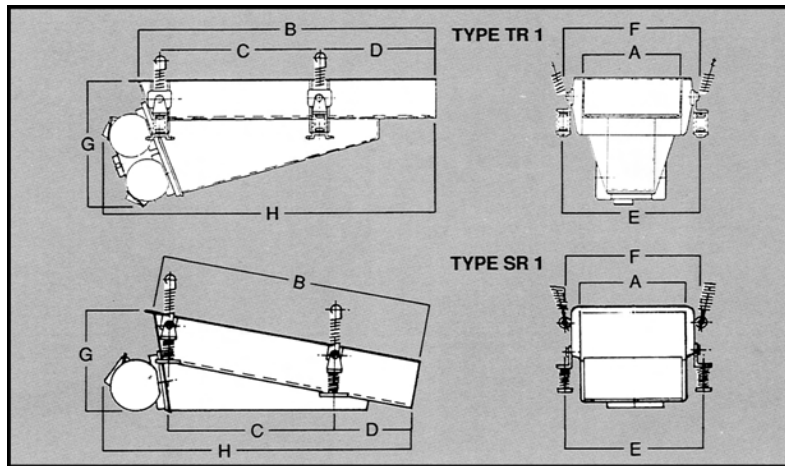
Vibrators

All machines in the TR1 and SR1 ranges are powered by 900 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/m³, a bed depth equal to the trough height and free flowing material. The TR1 range throughputs are calculated for feeders mounted horizontally. Higher throughputs may be achieved if the bed depth is increased by using side skirts and/or declining the feeder. Throughput rates increase by approximately 2% per degree of decline. The maximal allowable decline is 10 degrees. The SR1 range throughputs are calculated for feeders declined at 10 degrees.



TYPE TR1 VIBRATORY FEEDERS

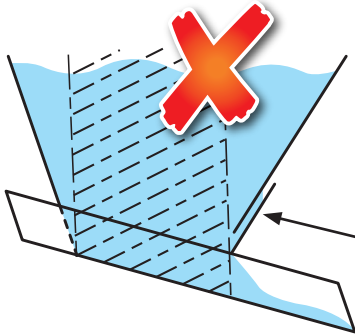
A	B	WATT	MZSTPH	C	D	E	F	G	H	Wt/Kg
630	/1000-244	1000	125	640	245	815	795	610	1120	220
	/1000-254	1000	210	640	245	815	795	610	1120	220
	/1250-254	1000	180	768	365	815	795	660	1340	250
	/1500-254	1000	155	788	560	815	795	715	1560	280
	/1750-254	1000	135	938	660	815	795	775	1775	310
800	/1250-254	1000	190	768	365	985	965	660	1340	280
	/1500-254	1000	165	768	560	985	965	715	1560	315
	/1750-254	1000	140	938	660	985	965	775	1775	350
1000	/1500-254	1000	165	768	560	1185	1165	715	1560	360
	/1750-254	1000	140	938	660	1185	1165	775	1775	400
	/1750-304	1920	275	938	660	1185	1165	840	1860	460

TYPE SR1 VIBRATORY FEEDERS

A	B	WATT	MZSTPH	C	D	E	F	G	H	Wt/Kg
• • 315 •	/800-204	250	35	542	145	470	450	350	925	75
	/1000-244	500	55	640	245	470	450	400	1175	130
	/1250-254	500	75	768	365	470	450	445	1415	150
	/1500-254	500	65	788	560	470	450	490	1655	160
• • 400 • •	/800-204	250	35	542	145	555	535	350	925	85
	/1000-244	500	55	640	245	555	535	400	1175	135
	/1000-254	500	100	640	245	555	535	400	1175	140
	/1250-254	500	85	768	365	555	535	445	1415	165
• • 500 •	/1500-254	500	70	788	560	555	535	490	1655	185
	/1000-244	500	55	640	245	685	665	400	1180	155
	/1000-254	500	105	640	245	685	665	400	1180	160
	/1250-254	500	85	768	365	685	665	445	1415	185
630	/1000-254	500	110	640	245	815	795	400	1180	180
	/1250-254	500	85	768	365	815	795	445	1415	210
	/1500-304	960	150	788	560	815	795	520	1690	270
800	/1000-254	500	110	640	245	985	965	400	1180	205
	/1250-254	500	80	768	365	985	965	445	1415	240
	/1250-304	960	190	768	365	985	965	475	1460	270
1000	/1500-304	960	160	788	560	985	965	520	1690	305
	/1500-304	960	160	788	560	1185	1165	520	1690	345

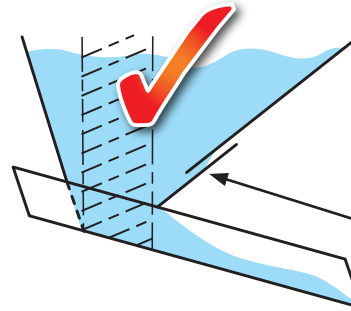
• For these base mounted models the vibrator does not fit inside the rear spring mounting brackets

Installation



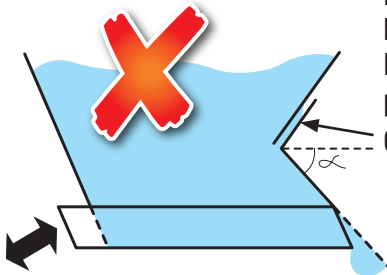
Column load from hopper taken on feeder trough bottom - heavy loads imposed on feeder spring units - reduced performance.

Control Gate



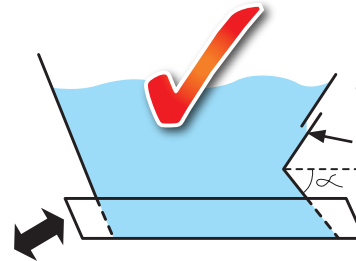
Column load from hopper can be made minimal by this method - lighter feeder loading gives increased performance.

Control Gate



Material slope extends beyond the end of trough. Feed rate control not possible.

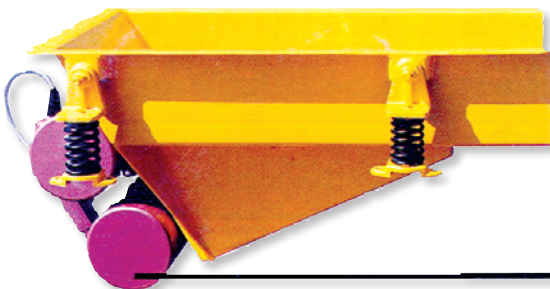
Control Gate



Material slope ends within trough length. Feed rate control feasible.

Control Gate

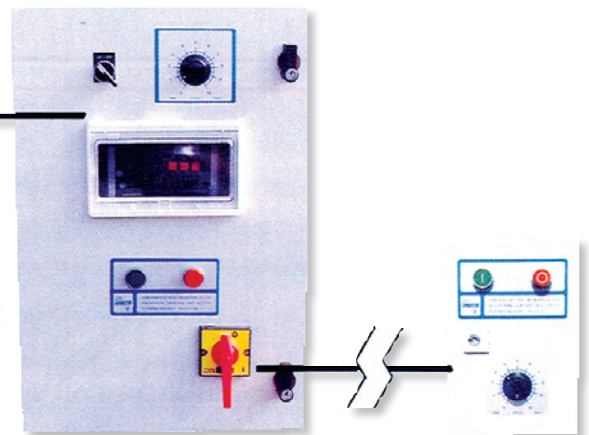
Electrical Control Equipment



Manually operated Local/Remote Control system

Mogensen type TR1 and SR1 Vibratory Feeders may be supplied complete with Variable Feed Rate Controllers build by our own control division. They incorporate the very latest IMO frequency inverter technology for applications that require frequent adjustment of the feed rate.

For other applications 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.



NSW

Wyong - Head Office

10 Hereford Street, Berkeley Vale NSW 2261
PO Box 5010 Chittaway NSW 2261
Tel: +61 (0)2 4389 6191
Fax: +61 (0)2 4389 6199
Email: info@hmagroup.com.au

GnXbYm

#%E [d]ge DaSV, >S` W5ahWNSW 206(
Tel: +61 (0)2 94\$* 7300
Fax: +61 (0)2 94\$* 7399
Email: ekV` Wk@hmagroup.com.au

VIC

Melbourne

PO Box 204, Narre Warren VIC 3805
Mobile: +61 (0)429 176 688
Email: melbourne@hmagroup.com.au

Morwell

8 Jones Road, Morwell VIC 3840
PO Box 647, Morwell VIC 3840
Tel: +61 (0)3 5136 8400
Fax: +61 (0)3 5136 8499
Email: morwell@hmagroup.com.au

SA

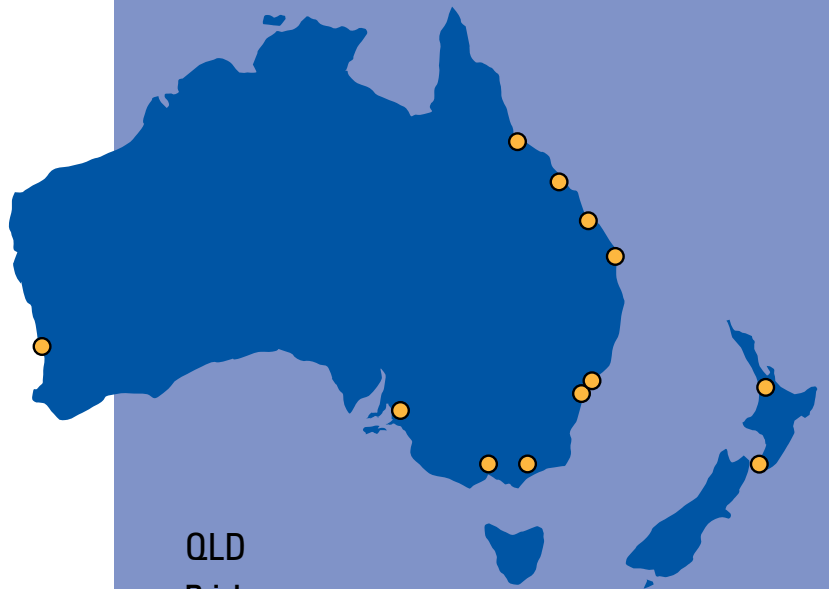
Adelaide

PO Box 1280, North Haven SA 5018
Tel: +61 (0)8 8341 8067
Fax: +61 (0)8 8341 8067
Mobile: +61 (0)437 460 032
Email: adelaide@hmagroup.com.au

WA

Perth

119 Dowd Street, Welshpool WA 6106
Tel: +61 (0)8 6254 9500
Fax: +61 (0)8 6254 9599
Email: perth@hmagroup.com.au



QLD

Brisbane

3rd Floor, 49 Sherwood Road, Toowong QLD 4066
PO Box 106, Toowong QLD 4066
Tel: +61 (0)7 3859 6800
Fax: +61 (0)7 3859 6869
Email: brisbane@hmagroup.com.au

Mackay

22-30 Southgate Drive,
Southgate Industrial Park, Paget QLD 4740
PO Box 6221, Mackay Mail Centre QLD 4741
Tel: +61 (0)7 4998 6900
Fax: +61 (0)7 4998 6999
Email: mackay@hmagroup.com.au

Gladstone

9 Neil St, Gladstone QLD 4680
PO Box 1731, Gladstone QLD 4680
Tel: +61 (0)7 4978 3128
Fax: +61 (0)7 4978 3127
Email: gladstone@hmagroup.com.au

Townsville

PO Box 347, Aitkenvale QLD 4814
Tel: +61 (0)7 4728 6300
Fax: +61 (0)7 4728 6388
Mobile: +61 (0)417 996 694
Email: townsville@hmagroup.com.au

NEW ZEALAND

Hamilton

Unit 14, 9 Karewa Place, Pukete, Hamilton NZ 3200
PO Box 10102, Te Rapa, Hamilton NZ 3241
Tel: +64 (0)7 847 1880
Fax: +64 (0)7 847 1883
Email: hamilton@hmagroup.co.nz

Wellington

Tel: +64 (0)7 847 1880
Fax: +64 (0)7 847 1883
Mobile: +64 272 612 744
Email: wellington@hmagroup.co.nz