

# SYNTECHTRON

Vibratory Equipment Specialists

## Syntron<sup>®</sup> Model MF Heavy-Duty Electromechanical Vibratory Feeders

### The High Capacity Performers



Syntechtron MF heavy-duty electromechanical feeders are the “heavy-weights” of bulk material handling and are used for higher capacity requirements. The seven heavy-duty models available are capable of capacities of up to 6000 TPH. Maximum feed rates range from up to 0.4m/sec (80ft/min) depending on material characteristics and the trough down-slope angle.

Like RF medium density units, MF heavy-duty electromechanical feeders are two-mass, spring-connected and sub-resonant tuned. The exciter unit is connected to the trough with specially designed polymer compression springs. Exciters in these heavy-duty feeders use spherical roller bearings, with life expectancies up to 140,000 hours.

#### Fixed Feed Rate

These machines can be supplied without a controller where variable feed rate is not required. Trough stroke can be set by counterweight adjustment during commissioning to achieve the required feed rate.



#### Variable Rate Controller

Syntechtron have a range of Variable Rate Controllers utilising Mechanical Feeder Control Modules and other auxiliary components providing optional Local / Remote, Start / Stop, Manual Rate Set and Auto 4-20mA control.

SYNTECHTRON can also supply frequency inverters to control the motor speed. These inverters can be supplied on a prewired panel plate or housed in an IP-55 steel enclosure complete with the necessary fuses, switches and contactors etc.

Feeder troughs can be fitted with a range of wear liner materials such as, abrasion resistant steel, rubber, carbide composite (dua plate), stainless steel or heated liners. Trough clads with stainless steel (plug and seal welded to trough) are often used in coal applications where high moisture contents can result in corrosive environments.

**SYNTECHTRON**

Ph: 02 9679 7022

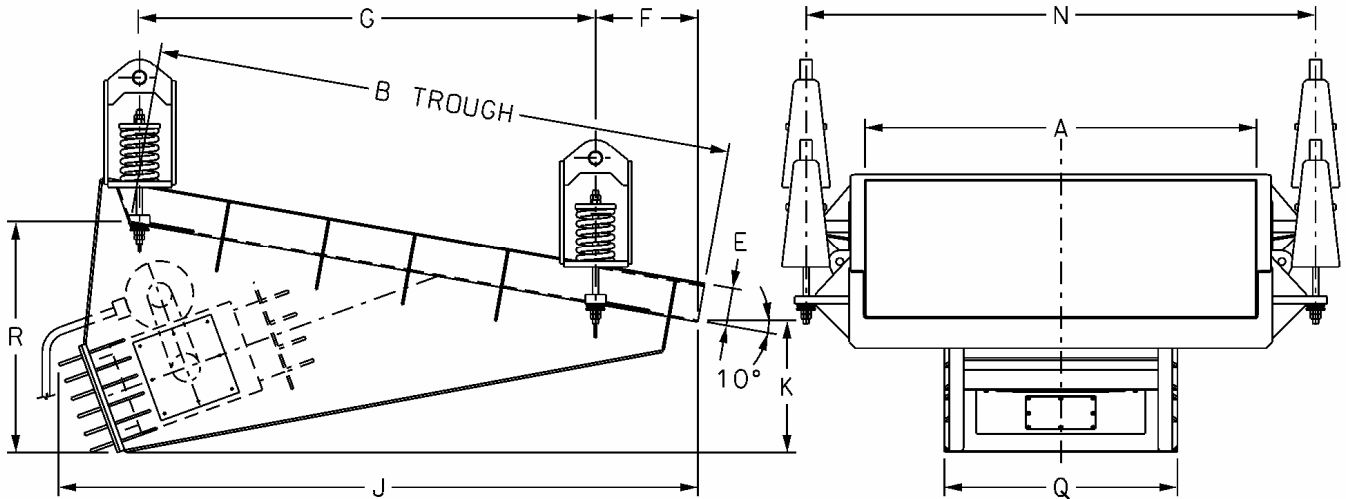
Fax: 02 9679 7033

**AUSTRALIAN OWNED**

Email: [sales@syntechtron.com](mailto:sales@syntechtron.com)

Website: [www.syntechtron.com](http://www.syntechtron.com)

# MF Heavy-Duty Electromechanical Vibratory Feeders



## MF200

### Dimensions in mm

| Trough Size | A    | B    | C   | D    | E   | F   | G    | H   | J    | K   | L   | M    | N    | P  | Q   | R   | S   | T   |
|-------------|------|------|-----|------|-----|-----|------|-----|------|-----|-----|------|------|----|-----|-----|-----|-----|
| 900 x 3000  | 900  | 3000 | 190 | 1530 | 200 | 330 | 2250 | 240 | 2820 | 460 | 355 | 1370 | 1140 | 75 | 760 | 990 | 550 | 480 |
| 1000 x 2100 | 1000 | 2100 | 115 | 1530 | 200 | 175 | 1730 | 310 | 2215 | 560 | 200 | 760  | 1240 | 75 | 760 | 925 | 550 | 480 |
| 1200 x 1800 | 1200 | 1800 | 160 | 1530 | 200 | 75  | 1600 | 385 | 1060 | 585 | 100 | 610  | 1440 | 75 | 760 | 900 | 550 | 480 |
| 1200 x 2100 | 1200 | 2100 | 115 | 1530 | 200 | 175 | 1730 | 310 | 2215 | 560 | 200 | 760  | 1440 | 75 | 760 | 925 | 550 | 480 |

## MF400

### Dimensions in mm

| Trough Size | A    | B    | C   | D    | E   | F   | G    | H   | J    | K   | L   | M    | N    | P   | Q   | R    | S   | T   |
|-------------|------|------|-----|------|-----|-----|------|-----|------|-----|-----|------|------|-----|-----|------|-----|-----|
| 1000 x 3000 | 1000 | 3000 | 12  | 1875 | 200 | 425 | 2235 | 355 | 3015 | 585 | 455 | 1220 | 1240 | 100 | 965 | 1190 | 635 | 550 |
| 1200 x 3600 | 1200 | 3600 | 130 | 1875 | 200 | 570 | 2780 | 120 | 3470 | 580 | 605 | 1675 | 1440 | 100 | 965 | 1215 | 635 | 550 |
| 1500 x 2100 | 1500 | 2100 | 420 | 1875 | 200 | 210 | 1750 | 560 | 2520 | 750 | 230 | 710  | 1740 | 150 | 965 | 1120 | 635 | 550 |
| 1500 x 2400 | 1500 | 1400 | 265 | 1875 | 200 | 350 | 1830 | 495 | 2675 | 725 | 380 | 865  | 1740 | 125 | 965 | 1145 | 635 | 550 |

## MF600

### Dimensions in mm

| Trough Size | A    | B    | C   | D    | E   | F   | G    | H   | J    | K   | L   | M    | N    | P   | Q    | R    | S   | T   |
|-------------|------|------|-----|------|-----|-----|------|-----|------|-----|-----|------|------|-----|------|------|-----|-----|
| 1500 x 3600 | 1500 | 3600 | 5   | 2030 | 200 | 840 | 2500 | 260 | 3600 | 675 | 865 | 1625 | 1745 | 150 | 1145 | 1310 | 845 | 845 |
| 1700 x 2300 | 1700 | 2300 | 510 | 2030 | 200 | 355 | 1675 | 730 | 2760 | 785 | 380 | 840  | 1950 | 150 | 1145 | 1185 | 845 | 845 |
| 1800 x 2400 | 1800 | 2400 | 540 | 2070 | 200 | 355 | 1875 | 710 | 2940 | 805 | 380 | 715  | 2050 | 150 | 1145 | 1230 | 845 | 845 |
| 1800 x 3000 | 1800 | 3000 | 300 | 2030 | 200 | 535 | 2100 | 665 | 3300 | 725 | 365 | 1320 | 2050 | 150 | 1145 | 1255 | 845 | 845 |

## MF800

### Dimensions in mm

| Trough Size | A    | B    | C   | D    | E   | F   | G    | H   | J    | K   | L   | M    | N    | P   | Q    | R    | S   | T   |
|-------------|------|------|-----|------|-----|-----|------|-----|------|-----|-----|------|------|-----|------|------|-----|-----|
| 1400 x 4500 | 1400 | 4500 | 420 | 2120 | 255 | 870 | 3300 | 90  | 4260 | 625 | 900 | 2030 | 1675 | 125 | 1245 | 1420 | 845 | 845 |
| 1800 x 3600 | 1800 | 3600 | 30  | 2120 | 255 | 350 | 2675 | 630 | 3655 | 705 | 380 | 1575 | 1975 | 150 | 1245 | 1340 | 845 | 845 |
| 2000 x 3400 | 2000 | 3400 | 180 | 2120 | 255 | 350 | 2755 | 380 | 3485 | 735 | 380 | 1420 | 2275 | 150 | 1245 | 1315 | 845 | 845 |
| 2100 x 2700 | 2100 | 2700 | 635 | 2285 | 255 | 415 | 2100 | 820 | 3335 | 840 | 450 | 1120 | 2375 | 180 | 1245 | 1320 | 845 | 845 |

## MF1000

### Dimensions in mm

| Trough Size | A    | B    | C   | D    | E   | F   | G    | H   | J    | K   | L    | M    | N    | P   | Q    | R    | S   | T   |
|-------------|------|------|-----|------|-----|-----|------|-----|------|-----|------|------|------|-----|------|------|-----|-----|
| 1200 x 6000 | 1200 | 6000 | 890 | 2310 | 255 | 990 | 4240 | 120 | 5350 | 545 | 1015 | 2895 | 1455 | 150 | 1425 | 1605 | 845 | 845 |
| 1800 x 4000 | 1800 | 4000 | 275 | 2375 | 255 | 430 | 2955 | 795 | 5180 | 735 | 460  | 1880 | 2075 | 150 | 1425 | 1425 | 845 | 845 |
| 2100 x 3000 | 2100 | 3000 | 620 | 2375 | 255 | 485 | 2350 | 810 | 3645 | 840 | 510  | 1320 | 2375 | 180 | 1425 | 1370 | 845 | 845 |
| 2400 x 3000 | 2400 | 3000 | 620 | 2375 | 255 | 485 | 2350 | 790 | 3625 | 840 | 510  | 1320 | 2675 | 205 | 1425 | 1370 | 845 | 845 |

Model MF1600 and MF2000: Additional information available upon request. Exciter units can be driven through Cardan shaft drive arrangements if required. All dimensions are in mm and should be certified for installation purposes.

Due to our policy of continuous improvement in product design and manufacture we reserve the right to change specifications and dimensions without notice. For correct and safe operation Syntechtron process equipment must be installed, operated and maintained in accordance with our instruction manual.

| Model  | Feeder Mass | Motor Power | Standard Trough Size | Maximum capacity |          |
|--------|-------------|-------------|----------------------|------------------|----------|
|        |             |             |                      | Coal             | Sand     |
| MF200  | 900 kg      | 4 kW        | 1200 x 1800          | 700 TPH          | 1200 TPH |
| MF400  | 1800 kg     | 7.5 kW      | 1500 x 2100          | 1200 TPH         | 2000 TPH |
| MF600  | 2700 kg     | 11 kW       | 1800 x 2400          | 1550 TPH         | 2600 TPH |
| MF800  | 3600 kg     | 18.5 kW     | 2100 x 2700          | 1900 TPH         | 3200 TPH |
| MF1000 | 4500 kg     | 22 kW       | 2400 x 3000          | 2400 TPH         | 4000 TPH |
| MF1600 | 7300 kg     | 30 kW       | 2700 x 3300          | 3000 TPH         | 5000 TPH |
| MF2000 | 9000 kg     | 37 kW       | 3000 x 3600          | 3600 TPH         | 6000 TPH |