



R.R. Fisher & CO.LTD

PRODUCT RANGE

- Anti-Vibration Mounts
- Bearings & Rod Ends
- Bin Level Controls-
Paddle, Tilt & Diaphragm Indicators
- Bin Vibrators
- Cam Clutches
- Chain-
Conveyer, Transmission, Slat Band
- Chain Sprockets
- Controls for Electromagnetic Vibrating
Equipment
- Conveyer Belts, PVC/Rubber &
Accessories
- Conveyors & Conveying Systems -
Belt, Slat Band, Elevating,
Accumulating, Screw
- Couplings - Jaw, Flexible, Gear, Fluid,
Zero-backlash, All Steel, Chain
- Electromagnetic Clutches & Brakes
- Elevator Buckets
- Fibreglass Springs
- Geared Motors - Right Angle Worm Drives
& Inline Helical, Helical Bevel
- Geared Reducers - Shaft-Mounted Reducers
- Gears - Manufacturers of standard &
specials, Timing Pulleys & Sprockets
- Grease & Lubricants
- Motorised Conveyor Drums
- Pneumatic Vibrators
- Rubber Lining/Lagging/Insertion Material
- Shaft Locking Assemblies
- Specialised Materials Handling
Equipment
- Timing Belts & Pulleys
- Torque Limiters
- Transmission Belts
- Universal Joints
- V Belts & Pulleys
- Variable Speed Controllers, AC & DC
- Variable Speed Gearboxes
- Variable Speed Pulleys
- Vibratory Feeder Equipment - Bowl
Feeders, Tray Feeders, Screens



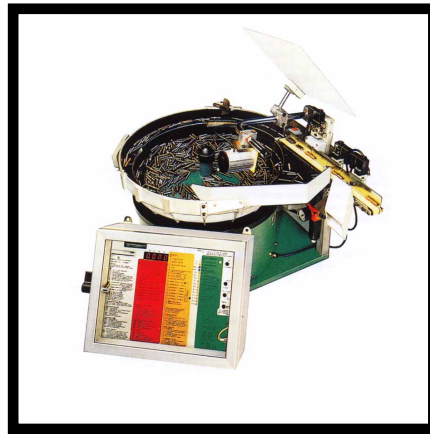
Lini-Store Hopper



Linear Driver



Elevating Hopper



Euro-Scan Programmable Bowl Feeder

AGENCY LINES

- | | | | |
|---------------------|--------------------|------------------------|------------------|
| Allied-Locke | Hitachi | PIV | Thermoid |
| ANB | Italvibras | Poggi | Tollok |
| Aylesbury | JIB | Powerflex | TRS |
| Automation | KHK | Pressol | Uras |
| Bando | KVP Falcon | R+W | URB |
| Beha | Leroy Somer | Regina | Voith |
| Chiorino | Matrix | REO | Whale |
| Ewart | Megadyne | Sanyu | Zetasassi |
| Fimec | Miki Pulley | Sealmaster | |
| Flender | Monninghoff | Shingle Belting | |
| F-M | Morse | Spherco | |
| Gates | Motovario | Stieber | |
| Goodyear | MRW | Super Lube | |
| Guardian | Netter | T.D.Cross | |
| Hirschmann | NHI | Tapco | |

Not all products are available in Australia

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A Comprehensive Range of
Vibratory Bowl Feeders
from **RR FISHER**



**For increased economy, speed and accuracy
of production requiring a continuous feed of parts.**

R.R.FISHER & CO.

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RR FISHER Vibratory Bowl Feeders

R.R. Fisher & CO.LTD

Description of Operation

Components are loaded in bulk into the bowl shaped hopper, which is supported by a number of inclined leaf springs, the ends of which are securely attached to the bowl and to a heavy base. Electromagnetic vibratory units are also connected between the bowl and the base so that the bowl is caused to oscillate in both horizontal and vertical planes. The combination of these two movements causes the components to move outwards towards the side wall and to climb a spiral flight attached around the inner periphery of the bowl for delivery to a feed chute. The bottom of the bowl is made convex to assist outward movement of the components as they rotate under the influence of the vibration.

Components adjacent to the side wall on reaching the flight commence climbing it. Orientation of the component is achieved by using a series of selector devices in the flight. Correctly orientated components pass through all selectors, those incorrectly presented are rejected back into the bowl.

Feed rates may be adjusted by varying the voltage of the electromagnetic vibrators. Conventional bowl feeders tend to be sensitive to the weight of the vibrating components within the bowl, which can give rise to erratic feeding. Also, two conventional feeders on a shared mounting plate can interact with each other resulting in adverse feeding characteristics. However, by using peripheral mounted vibratory units these problems are reduced.

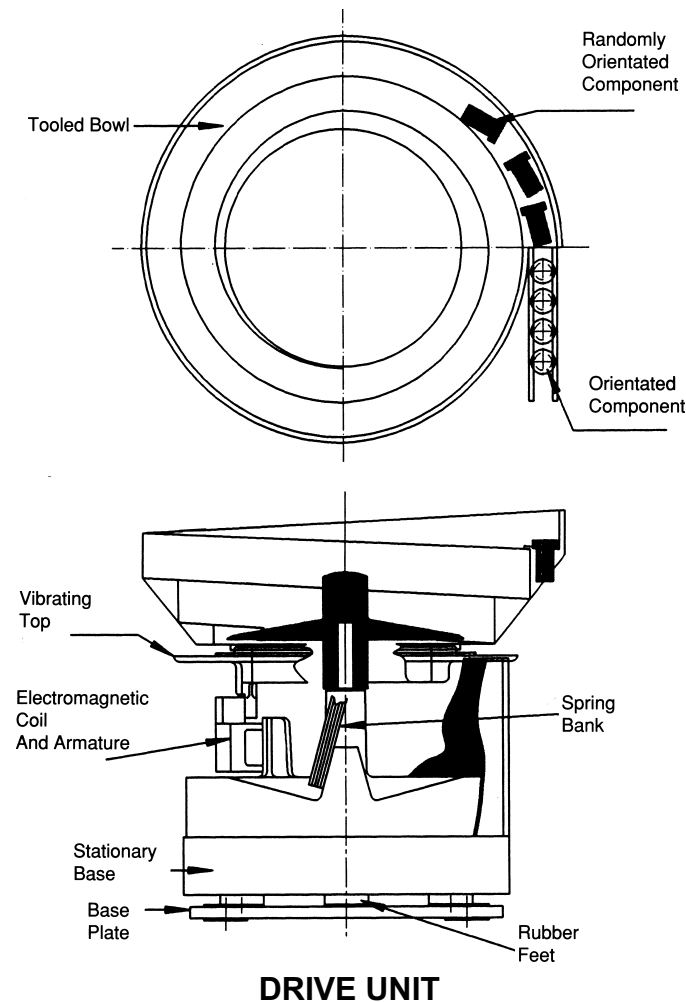
Bowls are supplied for either clockwise or counter clockwise feeding of components and can be supplied with various linings e.g. heavy duty black polyurethane, food grade Itrathane etc. Bowl diameters range from 80mm to 900mm for standard units, alternatively the bowls can be manufactured to an agreed specification to suit both component and fill capacity. The typical feed rate achieved by a bowl of 650mm diameter is 9m/min.

Bowl feeders can handle a variety of components. The gentle action of these feeders cause little or no damage to relatively fragile components.

Vibratory Bowl Feeders comprise three basic elements:

- The Vibratory Drive Unit
- The Bowl
- The Control Unit

The chart overleaf is a guide to the selection of the right combination of standard equipment to suit your particular needs. Our experts are available to advise on specific applications which can be met by standard bowl feeders or purpose built equipment.

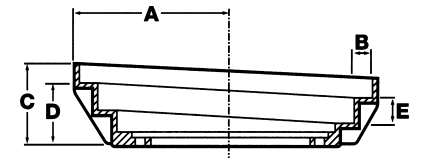


R.R. Fisher & CO.LTD

Bowls

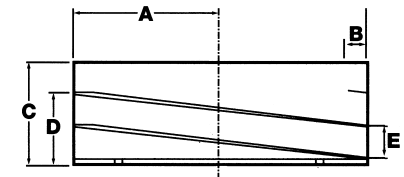
Stepped Cast aluminium - OS Oversized - N Negative flights.

SIS	150-10	200-10	200-20-OS	200-90-N	250-20	250-32	250-32-OS	250-32-N	400-32	400-50	400-38-N	625-50	625-75	625-75-N	625-60-N	630-50	630-65
Dimensions A	101	115	160	140	160	200	267	229	270	335	305	381	381	381	381	440	440
B	10	10	20	19	20	32	32	25	32	50	38	50	75	75	60	50	65
C	60	80	90	72	95	125	152	129	150	190	159	192	152	193	220	220	230
D	53	64	70	38	75	90	110	102	110	140	110	140	105	150	110	155	157
E	25	34	32	25	30	40	50	51	50	65	55	110	102	102	87	77	95
Capacity Ltrs	0.3	0.5	1	0.8	1	2	7	2	7	10	7	18	15	15	16	25	25
Drive Unit	150		200			250				400			625				630



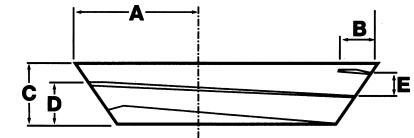
Cylindrical Fabricated from mild steel or stainless steel.

SIC	150-12-70	200-12-80	250-15-110	250-30-130	400-15-180	400-25-160	400-30-160	625-75-250	630-50-180	630-50-300
Dimensions A	84	90	125	175	254	200	220	381	335	335
B	12	12	15	30	15	25	30	75	50	50
C	70	80	110	130	180	160	160	250	180	195
D	64	65	73	120	107	107	141	167	156	167
E	22	22	25	33	45	45	50	82	70	70
Capacity Ltrs	0.5	0.8	1.2	1.6	2	1.8	7	23	20	20
Drive Unit	150	200	250			400		625		630



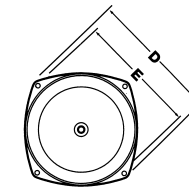
Conical Fabricated from mild steel or stainless steel.

SIK	200-18-55	250-20-90	250-20-115	250-8-150	400-50-160	400-15-220	400-50-190	630-50-180	630-50-190
Dimensions A	133	202	208	240	335	372	335	449	449
B	18	20	20	8	50	15	50	50	50
C	55	90	115	150	160	220	190	180	190
D	47	77	111	138	153	169	180	172	167
E	25	32	32	40	68	71	68	70	70
Capacity Ltrs	0.5	2	2	2	10	10	10	20	20
Drive Unit	200		250			400		630	



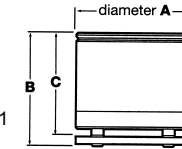
Vibratory drive units

	150	200	250	400	625	630
Dimensions A	152	180	310	460	610	680
B	140	184	247	267	425	260
C	130	165	233	247	405	235
D	200	215	360	510	750	750
E	176	198	310	460	690	690
F	6.5	7	11	11	13	13
Weight Kg	9	13	49	116	251	180
Power VA	220	308	726	803	950	990



Electrical Data

Vibration frequency	50 Hz	100 Hz	n/a	n/a	n/a	400-1	625-1	630-1
	n/a	150-2	n/a	200-2	250-2	400-2	n/a	n/a



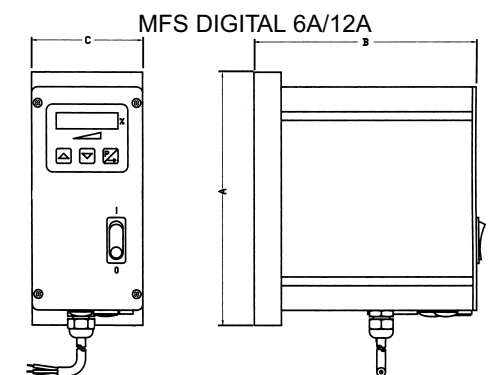
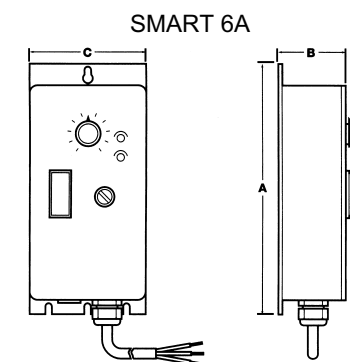
Drive units are manufactured for either Clock or Counter Clockwise feeding. Please specify when ordering. All dimensions in mm, unless otherwise stated. Due to the company's policy of continuous improvement of product, information herein may be subject to change without notice.

Control boxes

MFS Digital 6A / 12A - SMART 6A

Digital boxes incorporate an adjustable two way timer for feed track control with optional sensing heads.

Control Box Type	SMART 6A	MFS 6A	MFS 12A
A	205	205	205
B	57	186	208
C	90	90	160
Input voltage	230V	110 / 230V	110 / 230V
Input frequency	50/60Hz	50/60Hz	50/60Hz



Bowl linings

The following linings are available to increase durability:

- Metaline (Standard)
- Heavy Duty Black Polyurethane
- Directional Fibre
- Grey Fibre
- Habisat