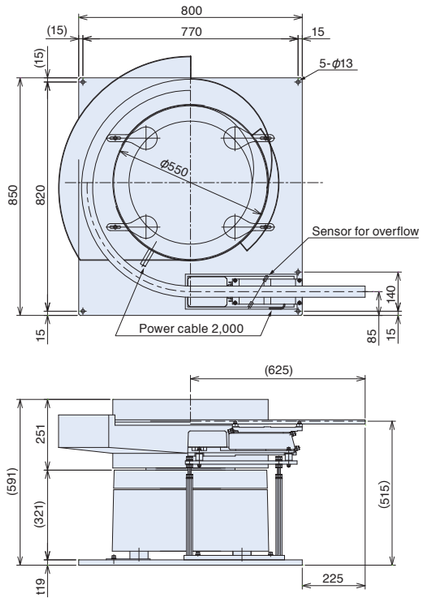
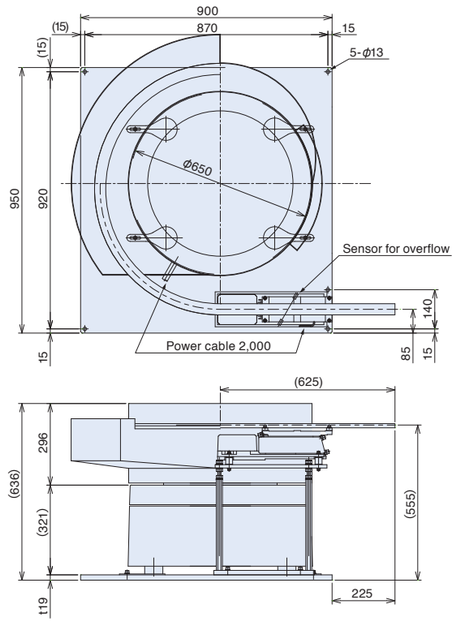
Unit: mm

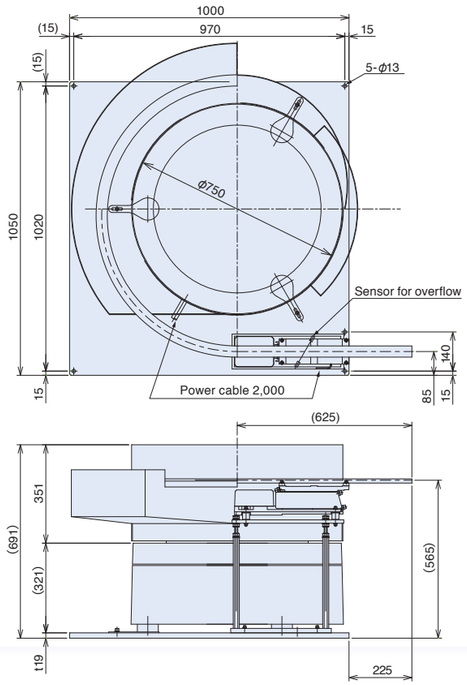
11 ER-55B+LFG-900

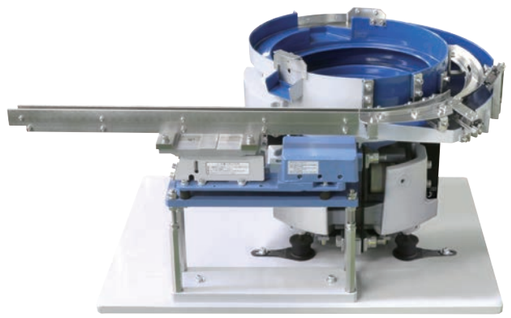


12 ER-65B+LFG-900



13 ER-75B+LFG-900



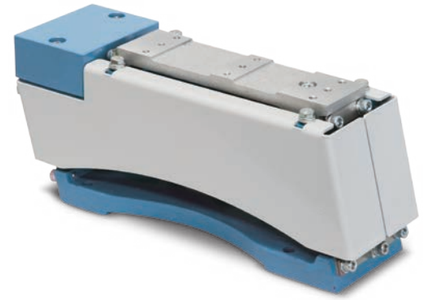


Parts Feeder Model	Linear Feeder Model					
	Leaf-spring vibro-isolating			Rubber-mount vibro-isolating		
	LFB-300	LFB-400	LFB-550	LFG-600	LFG-750	LFG-900
EA/DMS-15	1					
EA/DMS-20	2					
EA/ER/DMS-25		3		4		
EA/ER/DMS-30		5		6		
EA/ER/DMS-38			7		8	
EA/ER/DMS-45			9		10	
ER-55B						11
ER-65B						12
ER-75B						13

Notes:
All diagrams above show straight wall bowls, however combinations are also possible with track-stepped bowls. (Only bowl diameter and chute exit height vary; all other dimensions are the same for both types of bowl) Variety of combinations are possible, depending on the type of workpiece. Please contact us for more details.

Low-reaction force linear feeder with less floor reaction

A leaf-spring vibro-isolating type linear feeder with reduced floor reaction. We enabled low-reaction force, high accuracy and smooth parts conveyance through our review of the drive unit mechanism in detail.

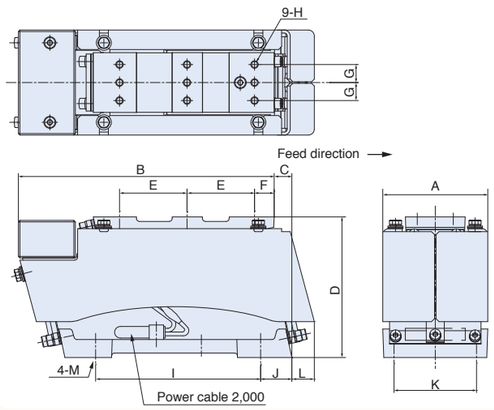


Features

- **Low floor reaction**
  By reviewing the drive unit mechanism, floor reaction force has been drastically reduced, compared with the existing leaf-spring vibro-isolating type.
- **Leaf spring and Core gap adjustment are unnecessary**
  No troublesome leaf-spring adjustment or even core gap adjustment is necessary, by using the available C9, C10 series variable frequency digital controllers.
- **No vibrational interference**
  Because of the middle frequency vibration range (between Full and Half wave), vibrational interference will not occur, when used in combination with other parts feeders.
- **Uniform chute vibration angle**
  The entire chute vibration angle become uniformly, and has improved the parts conveyance become much more smoothly.
- **Low power consumption**
  Driven near the resonance range enable to gain sufficient stroke in low current.

Dimensions LFBR-350B/450B/600B

Unit: mm



Specifications

Model		LFBR-350B	LFBR-450B	LFBR-600B
Rated voltage	V	200		
Rated current	A	0.12	0.14	0.28
Vibration frequency	Hz	95～120	75～100	75～90
Drive unit weight	kg	3.5	5.5	10.5
Leaf-spring angle	degree	12	15	15
Max. amplitude	mm	0.60	0.65	0.75
Cross section area of power cable	mm²	0.75 x 3 cores		
Compatible controller	AC200V	C10-1VF / 1VFEF		
	AC100V	C10-1VF / 1VFEF+C10-TR		

Dimensions Chart

Unit: mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M
LFBR-350B	70	170.5	12	93.5	45	13	12	M5	110	21	55	14	M8
LFBR-450B	80	205	20	107.5	55	13	14	M6	130	38	60	13	M8
LFBR-600B	95	274.5	25.5	133	75	16.5	19	M6	190	46	75	13	M10

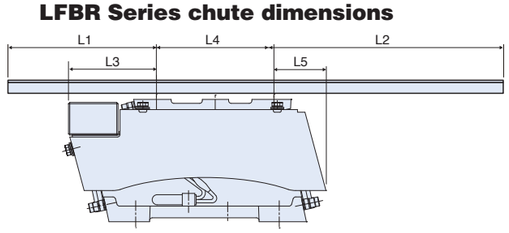
Chute Specifications, Including Basic Position

Unit: mm

Model	Max. length	Max. width	Min. thickness	Weight range (kg)
LFBR-350B	350	40	9	0.4～1.2
LFBR-450B	450	45	12	1.2～2.3
LFBR-600B	600	55	14	2.3～4.0

Model	Basic position (at max. chute length)				
	L1	L2	L3	L4	L5
LFBR-350B	30～110	110～150	67.5	90	39
LFBR-450B	70～150	150～190	82	110	46
LFBR-600B	90～200	200～250	108	150	55

LFBR Series chute dimensions



Generate uniform vibration without adjustment

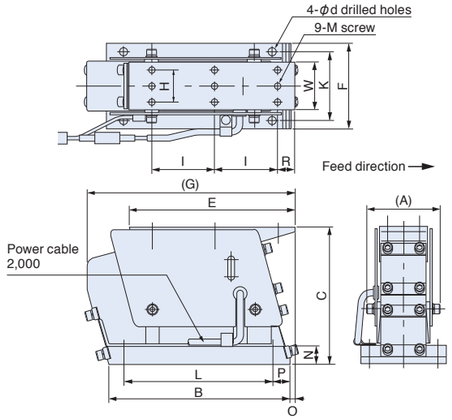
Use of a variable frequency controller eliminates the need for leaf-spring and core-gap adjustments.
Provides uniform vibration with no adjustments necessary, and is easily installed to link up with other equipment, greatly improving ease of use. Can accommodate heavier chute weights and longer overhangs, to widen scope for applications. The drive unit is slim, and with virtually no vibration interference it can easily be combined with parts feeders, to suit wide-ranging combinations.
The three models in this series can be used selectively to handle all sizes and shapes of workpiece.

Features

- **Simple, uniform vibration**
  Use with heavier chutes and longer overhangs opens a wider range of applications. Consistent, uniform vibration is supplied without the need for adjustment.
- **Energy saving type**
  Energy consumption cut by half, compared with our earlier models.

Dimensions LFB-300/400/550

Unit: mm



Specifications

Model		LFB-300	LFB-400	LFB-550
Rated voltage	V	200		
Rated current	A	0.04	0.08	0.15
Vibration frequency	Hz	90～120	80～110	75～100
Drive unit weight	kg	3.0	5.0	10.0
Leaf-spring angle	degree	15		
Max. amplitude	mm	0.6	0.65	0.75
Cross section area of power cable	mm²	0.75 × 3 cores		
Compatible controller	AC200V	C10-1VF / C10-1VFEF		
	AC100V	C10-1VF+C10-TR / C10-1VFEF+C10-TR		

Dimensions Chart

Unit: mm

Model	A	B	C	E	F	G	H	I	K	L	M	N	O	P	R	W	d
LFB-300	57	135	97	124	65	150	24	45	55	110	5	16	3	10	15	38	6
LFB-400	65	160	120	145	75	180	28	55	60	130	6	16	5	15	15	42	7
LFB-550	79	230	143	200	90	255	38	75	75	190	6	19	5	20	20	52	9

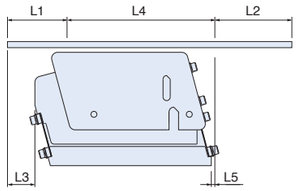
Chute Specifications, Including Basic Position

Unit: mm

Model	Max. length	Max. width	Min. thickness	Weight range (kg)
LFB-300	300	50	6	0.4～1.0
LFB-400	400	50	10	0.8～2.0
LFB-550	550	65	14	1.4～3.5

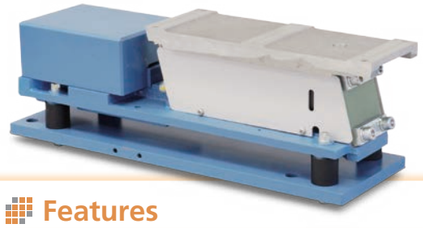
Model	Basic position (at max. chute length)				
	L1	L2	L3	L4	L5
LFB-300	66	110	40	124	3
LFB-400	105	150	70	145	5
LFB-550	140	210	85	200	5

LFB Series chute dimensions



Accommodate with variety of chutes for ideal conveyance

The variable frequency controller installed as standard eliminates need for leaf-spring and core-gap adjustments. Easy installation and coordination make it much easier to use, and by adjusting position of the rear-end weight, conveyance irregularities can be quickly and easily eliminated. With minimal lateral movement, there is virtually no vibration interference, making it easy to combine with parts feeders for stabilized delivery. The three models in this series allow a full range of equipment combinations, and cover all shapes and sizes of workpiece. A leaf-spring vibro-isolating type linear feeder with reduced floor reaction.We enabled low-reaction force, high accuracy and smooth parts conveyance through our review of the drive unit mechanism in detail.



Features

- **Applicable longer and wider linear chutes.**
  Because new LFG series have longer body from conventional models, more long and wide chutes can be applicable.
- **Stable vibrating conveyance**
  It prevents move of body caused by vibration with using original vibration isolation rubber.
- **Withstand load improved**
  Withstand load improved by applying a long chute
- **Almost same size of drive unit compared with conventional size.** *Except chute installation tap positions
  Ability improved with same size from conventional size.

Specifications

Model		LFG-600	LFG-750	LFG-900
Rated voltage	V	200		
Rated current	A	0.2	0.37	0.41
Vibration frequency	Hz	80～110	80～110	80～110
Drive unit weight	kg	7.4	13.2	19.6
Leaf-spring angle	degree	15		
Max. amplitude	mm	0.65	0.75	0.9
Cross section area of power cable	mm²	0.75 × 3 cores		
Compatible controller	AC200V	C10-1VF / C10-1VFEF		
	AC100V	C10-1VF+C10-TR / C10-1VFEF+C10-TR		

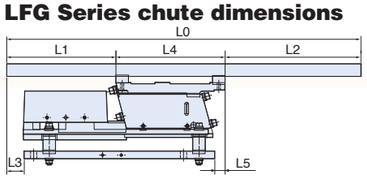
Chute Specifications, Including Basic Position

Unit: mm

Model	Max. length	Max. width	Min. thickness	Weight range (kg)
LFG-600	600	50	10	1.4～3.6
LFG-750	750	65	14	2.2～5.6
LFG-900	900	75	18	4.0～9.8

Model	Basic position (at max. chute length)					
	L0	L1	L2	L3	L4	L5
LFG-600	600	180	275	29	145	6
LFG-750	750	220	330	74	200	16
LFG-900	900	260	390	92	250	18

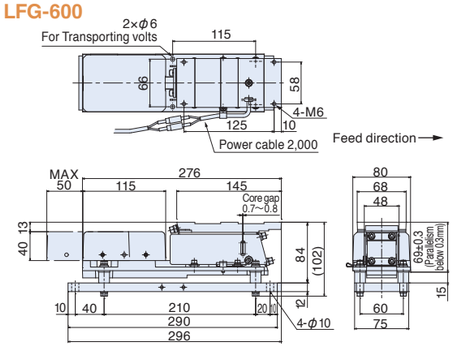
LFG Series chute dimensions



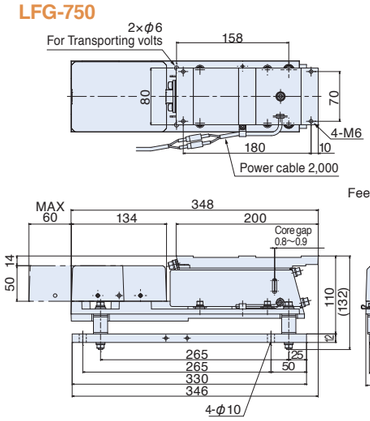
Dimensions

Unit: mm

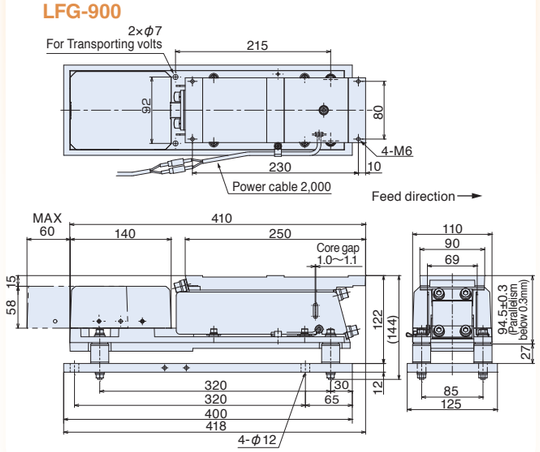
LFG-600



LFG-750

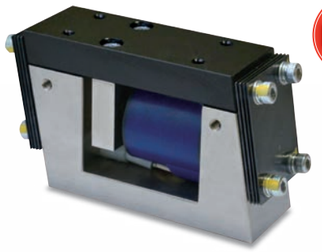


LFG-900



Simple and compact. Handles a wide range of micro-sized precision parts

Developed for stabilized delivery of non-specialized micro-sized and precision parts,
this series uses a small, electromagnetic drive unit that is simple and compact.
Unmounted, with full wave operation to give excellent conveyance capacity for small volumes of
non-specialized micro-sized workpieces. Maintenance is very straightforward and minimizes costs.



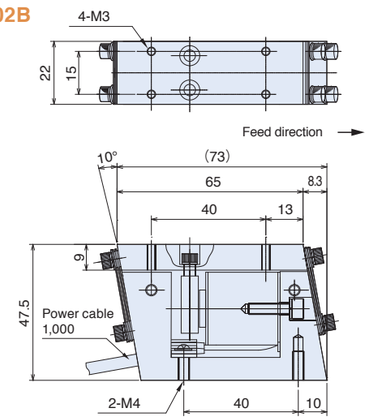
Features

- **Handles a wide range of small parts**
  Handles a wide range of non-specialized micro-sized, precision parts
- **Simple and low cost**
  Provides a simple, low-cost solution for small-volume applications.
- **Easy, convenient installation**
  Compact design allows easy, convenient installation.

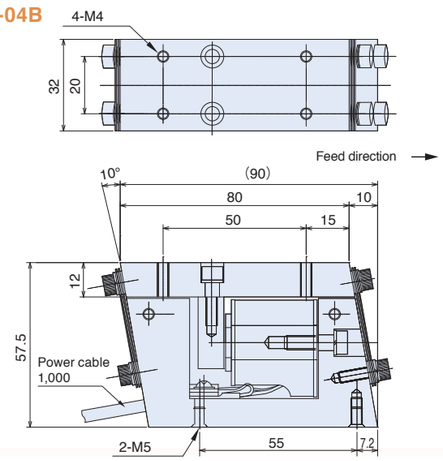
Dimensions LF-02B/04B

Unit: mm

LF-02B



LF-04B



Specifications

Model	Rated Voltage (V)	Rated Current (A)	Vibration frequency (Hz)	Weight (kg)	Standard compatible controllers
LF-02B	100/110	0.12	100~180	0.45	C10-1VF/1VFEF
LF-04B	100/110	0.16	100~180	1.0	

Chute Specifications

Unit: mm

Compatible linear feeder	Max. length	Max. width	Max. weight (kg)
LF-02B	180	20	0.2
LF-04B	240	30	0.4

Compact yet powerful, for speedy delivery and versatile, longer distance conveyance

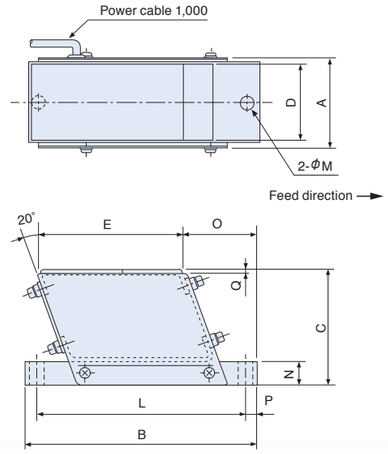
A new type of electromagnetic drive unit ideal for use with
chutes handling very small, flat, and precision parts.
Takes full advantage of merits of half wave operation
for smooth conveyance of fragile and easily damaged workpieces.

Features

- **Compact yet powerful**
  Small unit size with half wave operation capable of longer distance conveyance.
- **Speedy delivery, and versatile, longer distance conveyance**
  High vibration frequency and amplitude give speedy delivery, and can meet a range of loner distance conveyance requirements
- **Easy, convenient installation**
  Compact design takes up little space and allows easy, convenient installation.

Dimensions MF-04C/15C

Unit: mm



*Users are asked to drill holes as required for chute attachment.

Specifications

Model	Voltage (V)	Current (A)	Vibration (Hz)	Weight (kg)	Standard compatible controllers
MF-04C	100/110 200/220	0.13 0.065	50~90	0.6	C10-1VF/1VFEF
MF-15C	100/110 200/220	0.2 0.1	50~90	1.8	

Dimensions Chart

Unit: mm

Model	A	B	C	D	E	L	M	N	O	P	Q
MF-04C	46	106	56	38	62	88	7	9	38	9	3.2
MF-15C	56	160	78	52	100	144	9	16	52	8	3.2

Chute Specifications

Unit: mm

Compatible linear feeder	Max. length	Max. width	Max. weight (kg)
MF-04C	300	35	0.4
MF-15C	450	45	1.5

Note: Chute must straddle drive unit to distribute weight.

For stable feeding of large volumes of large workpieces

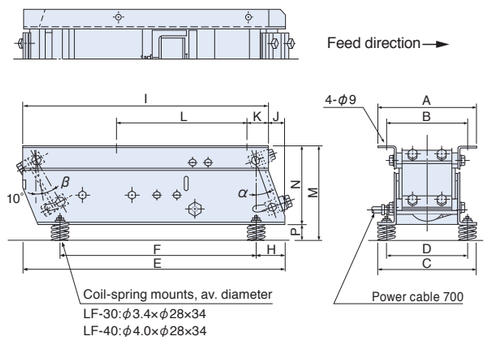
Large-capacity electromagnetic drive unit has strong coil springs positioned at front and rear, and drive controlled by amplitude angle adjustment, to give speedy, steady, straight-line delivery of large-sized workpieces. The low-floored half-wave drive provides uniform amplitude and vibration frequency to eliminate irregularities during high-volume conveyance of large workpieces.

Features

- **Large size feeder provides smooth workpiece delivery**
  Large, vibro-isolating feeder that keeps the flow of workpieces smooth through adjustment of leaf-spring angle.
- **Fast, stable delivery of high volumes of large workpieces**
  Extremely high conveyance efficiency allows high-volume delivery of large workpieces.
- **Dial control for free adjustment of conveyance speed**
  By changing the vibration frequency and amplitude with the dial control, delivery speed can be freely adjusted.

Dimensions LF-30/40

Unit: mm



Specifications

Model	Leaf-spring adjustment angle		Rated voltage (V)	Rated current (A)	Vibration frequency (Hz)	Weight (kg)	Cross section area of power cable (mm²)	Standard compatible controller
	α	β						
LF-30	0°~20°	10°~30°	200/220	1.5	50~90	25	1.25 x 3 core	C10-3VF/3VFEF
LF-40	0°~20°	10°~30°	200/220	1.6	50~90	33		

Dimensions Chart

Unit: mm

Model	A	B	C	D	E	F	H	I	J	K	L	M	N	P
LF-30	182.4	156.4	180.4	150.4	410	295	55	380	30	40	190	162	132	30
LF-40	196.4	166.4	186.4	154.4	500	375	55	470	30	40	250	177	147	30

Chute Specifications

Unit: mm

Applicable linear feeder	Max. length	Max. width	Max. weight (kg)
LF-30	650	120	3.5
LF-40	750	150	5.5

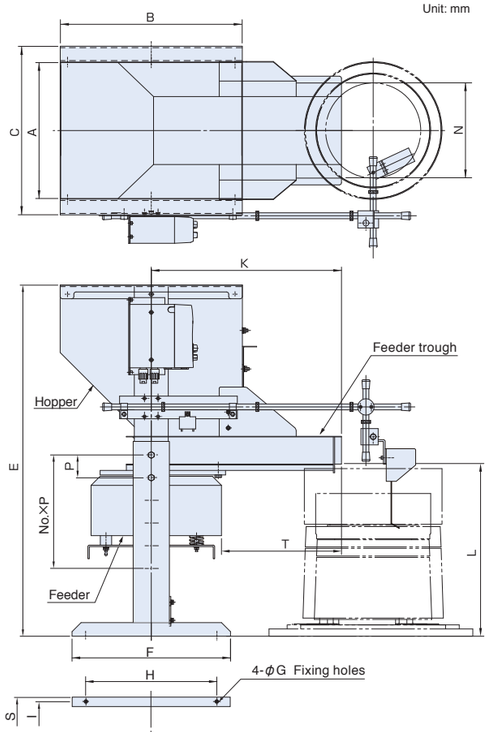
Note: Chute must straddle drive unit to distribute weight.

Features

- By attaching a feeder to a hopper, smooth components feeding is accomplished. Moreover, running noise is extremely low.

Dimensions 15/30/60/100-liter Hopper

Unit: mm



Dimensions Chart, including Feeders

Unit: mm

Hopper capacity (ℓ)	Model	Compatible Parts feeders	Permissible weight of work	A	B	C	E	F	G	H	I	K	L	N	Sliding base No.xP	S	T	Weight (kg)	Electromagnetic feeder	
																			Feeder model	Rated current(A)
15	HPF-15-3815B	EA-25 ER-25B EA-30 ER-30B	24	250	350	322	675~875	320	7	270	275	380	381~580	150	5 x 50	310	225	46	CF-2	0.5
30	HPF-30-4215B	EA-25 ER-25B EA-30 ER-30B EA-38 ER-38B EA-45 ER-45B	24	300	400	372	775~975	350	7	290	325	420	380~580	150	5 x 50	360	265	50	CF-2	0.5
60	HPF-60-6030B*	ER-55B ER-65B	56	450	600	553	865~1215	500	9	400	480	600	430~780	300	8 x 50	536	(358)	140	CF-3	1.0
100	HPF-100-6030B*	ER-55B ER-65B	56	450	600	553	1015~1365	500	9	400	480	600	430~780	300	8 x 50	536	(358)	147	CF-3	1.0

Notes
*1 Hopper material is stainless steel only.
*2 Vibration frequency: 50~70Hz; rated voltage: 200/220V; compatible controller: C10-1VFEF. (100/110V model is not standard type.)
*3 Paint color: Munsell N7.5
*4 For 15- and 30-liter hoppers, hopper heights becomes 5 levels with 50mm intervals: for 60- and 100-liter hoppers, hopper heights becomes 8 levels with 50mm intervals.
*5 Heavy-duty 60- and 100-liter hoppers (permissible total work weight 112kg) are available as non-standard models.
* Manufactured to order.