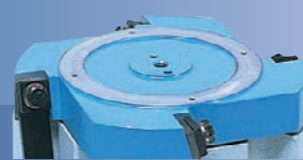


PARTS FEEDERS

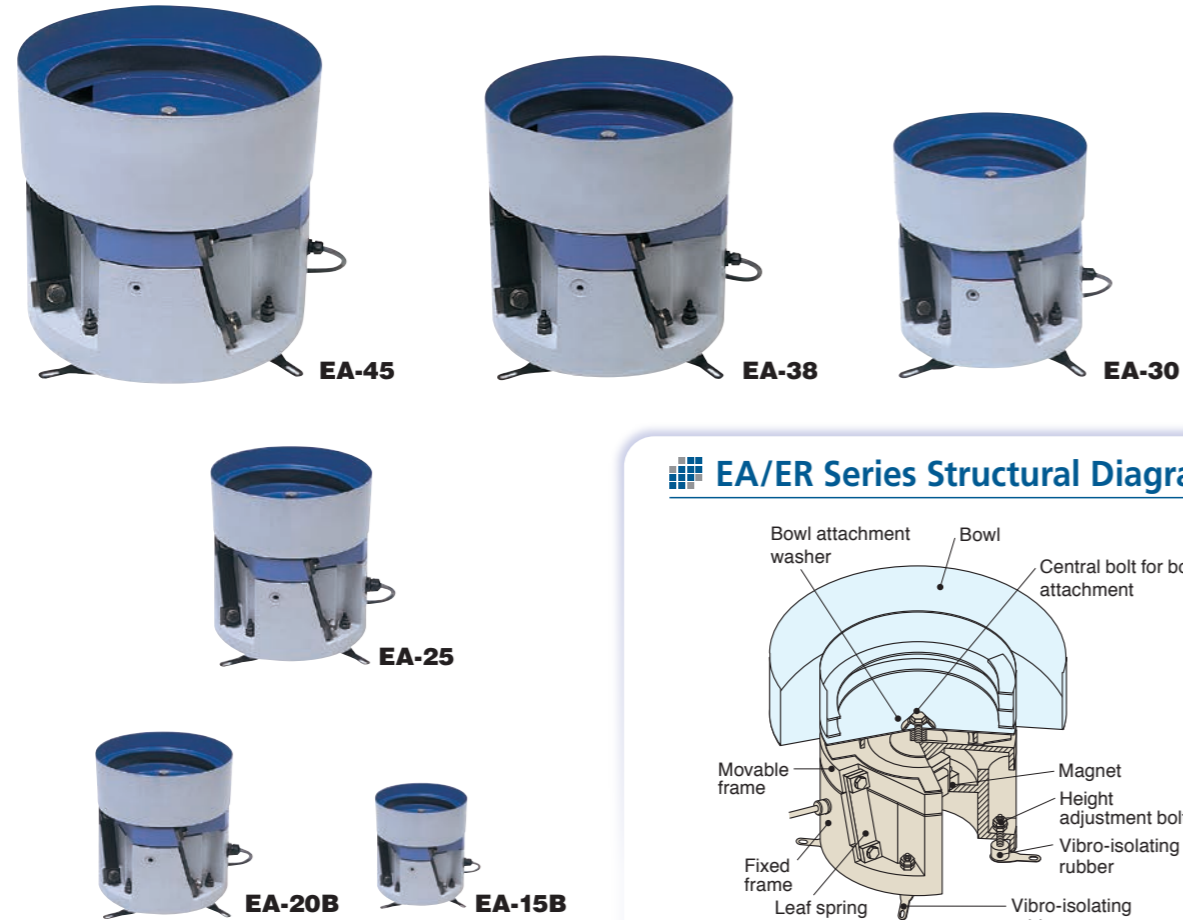
EA Series 100~180Hz



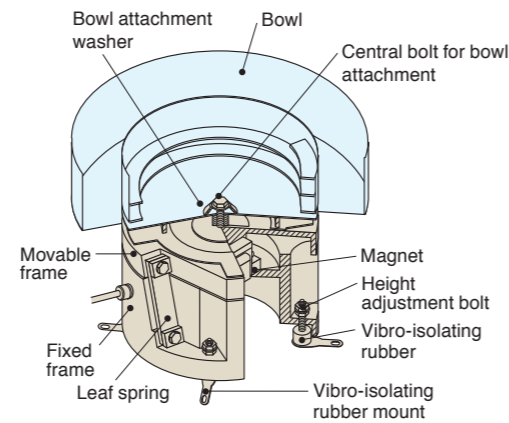
Pictures show counter-clockwise orientation

For handling a wide range of very small, precision workpieces

With high vibration frequencies of 100 to 180 Hz and small amplitude of 0.6 mm, this series is ideal for very small (10 mm or less), high precision or ultra thin workpieces. Can accommodate bowls ranging from 150 to 700 mm in diameter for highly reliable conveyance.

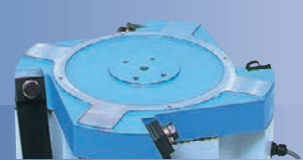


EA/ER Series Structural Diagram



PARTS FEEDERS

ER Series 50~90Hz



Pictures show counter-clockwise orientation

Steady feeding of various sizes of workpieces

With low vibration frequencies of 50 to 90Hz and a large amplitude of 1.2 mm, this series is suited to workpieces from 10 mm up in size. Bowl diameters from 250 to 1100 mm can be accommodated, to give powerful feeder performance.



Specifications

Model		EA-15B	EA-20B	EA-25	EA-30	EA-38	EA-45
Drive unit outer diameter	mm	φ165	φ210	φ260	φ310	φ390	φ460
Drive unit height	mm	133	155	190	220	260	280
Drive unit weight	kg	8	16	30	48	81	115
Leaf-spring attachment angle	degree	15					
Rated voltage	V	200 (*1)					
Rated current	A	0.35	0.8	1.5	2.0	2.5	3.0
Vibration frequency	Hz	100~180					
Unprocessed bowl diameter (cylindrical)	mm	150	200	250	300	375	450
Max. bowl diameter (cylindrical)	mm	250	330	420	500	600	700
Max. amplitude (periphery of standard cylindrical bowl)	mm	0.6			0.8		
Max. loaded weight (workpieces + bowl weight)	kg	2.3	4	8	12.5	17	26
Cross section area of power cable	mm ²	0.75 x 3 cores				1.25 x 3 cores	
Compatible controllers	AC200V	C10-1VF/1VFEF		C10-3VF/3VFEF			
	AC100V	C10-1VF/1VFEF+C10-TR		C10-3VF/3VFEF+C10-TR			

Note *1 With an AC100V power source, use optional C10-TR transformer.

Specifications

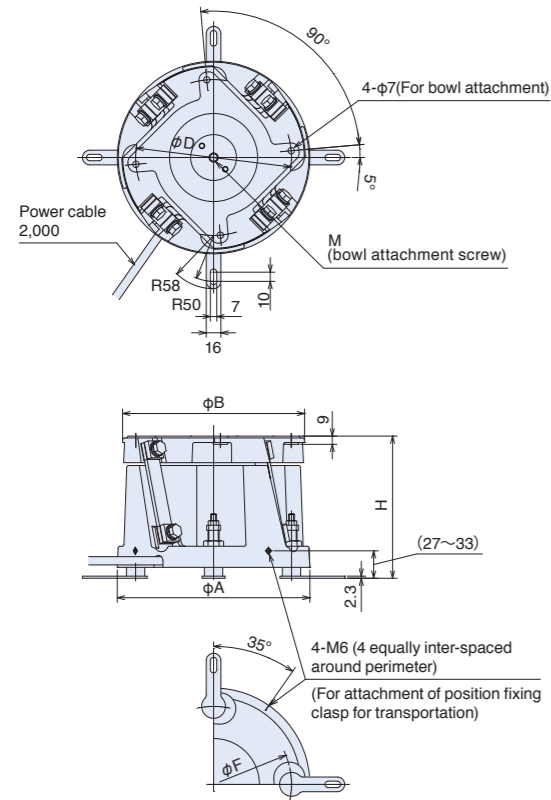
Model		ER-25B	ER-30B	ER-38B	ER-45B	ER-55B	ER-65B	ER-75B
Drive unit outer diameter	mm	φ260	φ310	φ390	φ460	φ560	φ660	φ760
Drive unit height	mm	198	225	264	286	321	321	321
Drive unit weight	kg	30	48	81	115	160	200	260
Leaf-spring attachment angle	degree	20						
Rated voltage	V	200 (*1)						
Rated current	A	1.0	1.5	2.0	2.5	5.0	5.0	5.0
Vibration frequency	Hz	50~90						
Unprocessed bowl diameter (cylindrical)	mm	250	300	375	450	550	650	750
Max. bowl diameter (cylindrical)	mm	420	500	600	700	830	980	1130
Max. amplitude (periphery of standard cylindrical bowl)	mm	1.2				1.4		
Max. loaded weight (workpieces + bowl weight)	kg	8	12.5	17	26	70	85	125
Cross section area of power cable	mm ²	0.75 x 3cores		1.25 x 3cores		2.0 x 3cores		
Compatible controllers	AC200V	C10-1VF/1VFEF	C10-3VF/3VFEF			C10-5VF/5VFEF		
	AC100V	*2	C10-3VF/3VFEF+C10-TR			—		

Notes *1 With an AC100V power source, use optional C10-TR transformer.
*2 C10-1VF/1VFEF+C10-TR

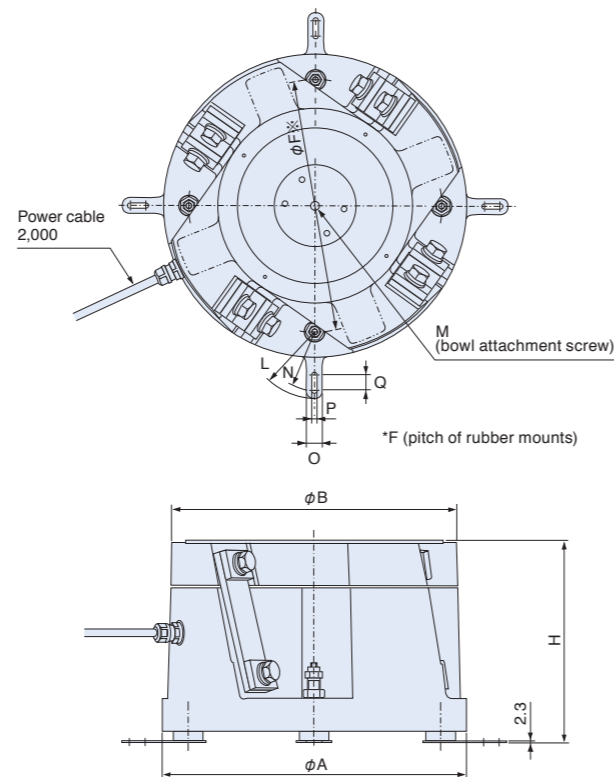
Dimensions

Unit: mm

EA-15B / 20B



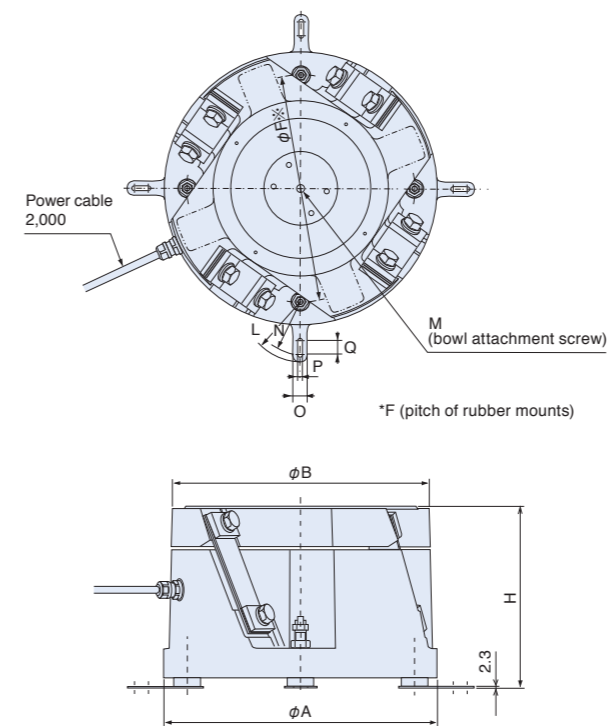
EA-25 / 30 / 38 / 45



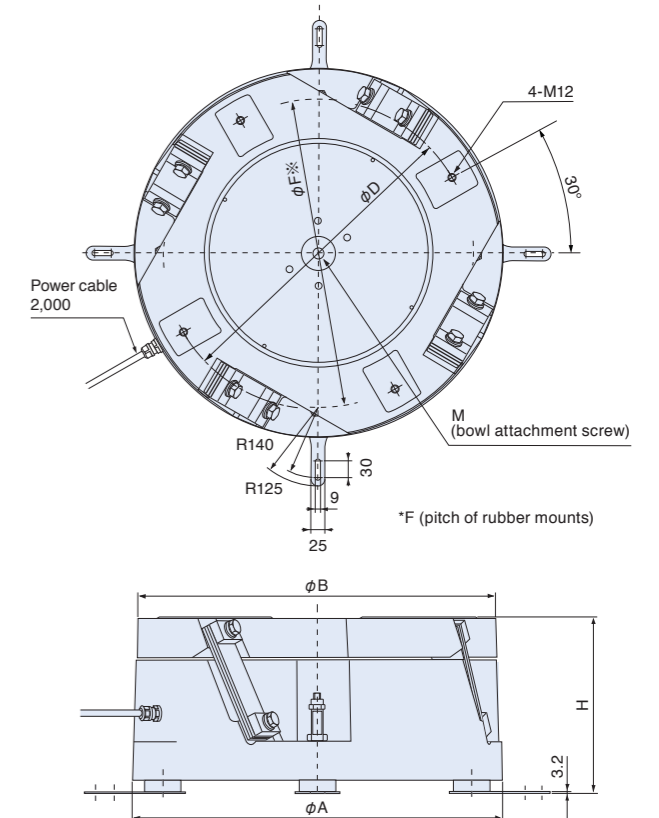
Dimensions

Unit: mm

ER-25B / 30B / 38B / 45B



ER-55B / 65B



Rubber mounts can be adjusted for any desired direction.

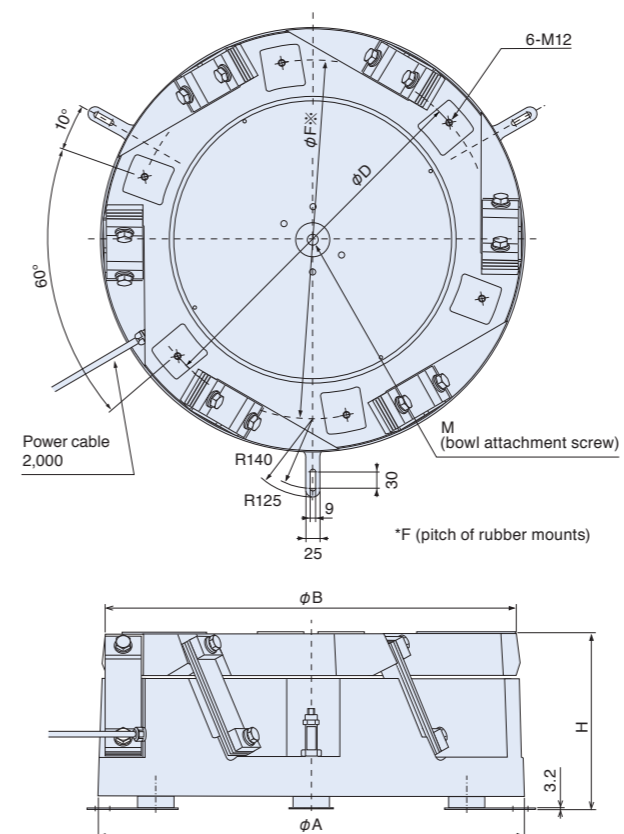
Dimensions Chart

Unit: mm

Model	H	ϕA	ϕB	M	ϕF
EA-15B	130-133-136	165	150	M8	130
EA-20B	152-155-158	210	200	M10	170

Model	H	ϕA	ϕB	M	ϕF	L	N	O	P	Q
EA-25	187-190-193	260	250	M12	216	58	50	16	7	10
EA-30	215-220-225	310	300	M12	252	85	75	20	7	20
EA-38	255-260-265	390	375	M16	324	85	75	20	7	20
EA-45	275-280-285	460	450	M16	390	85	75	20	7	20

ER-75B



Dimensions Chart

Unit: mm

Model	H	ϕA	ϕB	M	ϕF	L	N	O	P	Q
ER-25B	194-198-202	260	250	M12	216	58	50	16	7	10
ER-30B	218-225-232	310	300	M12	252	85	75	20	7	20
ER-38B	257-264-271	390	375	M16	324	85	75	20	7	20
ER-45B	280-286-292	460	450	M16	390	85	75	20	7	20

Model	H	ϕA	ϕB	ϕD	M	ϕF
ER-55B	312-321-330	560	550	460	M20	450
ER-65B	312-321-330	660	650	580	M20	550
ER-75B	312-321-330	760	750	640	M20	640

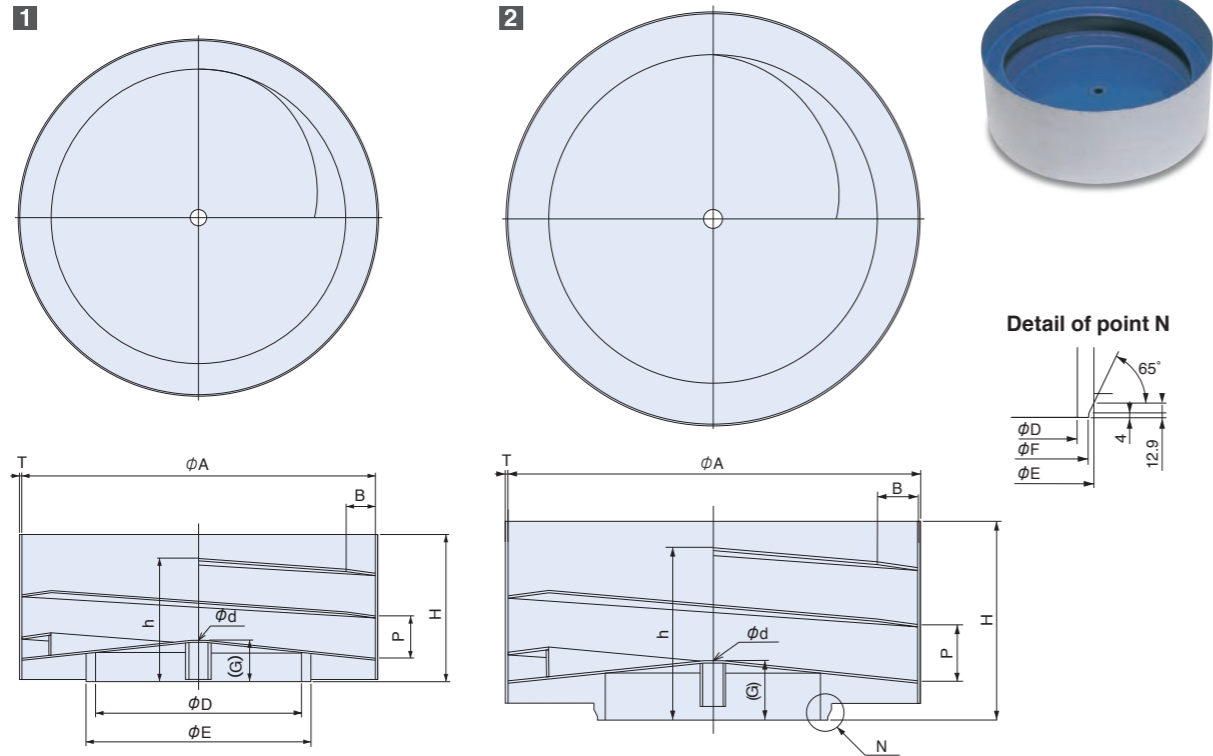
Diagrams show counter-clockwise orientation

Dimensions

Unit: mm

Straight Wall Bowls

Track circuits: 2 · 1/4



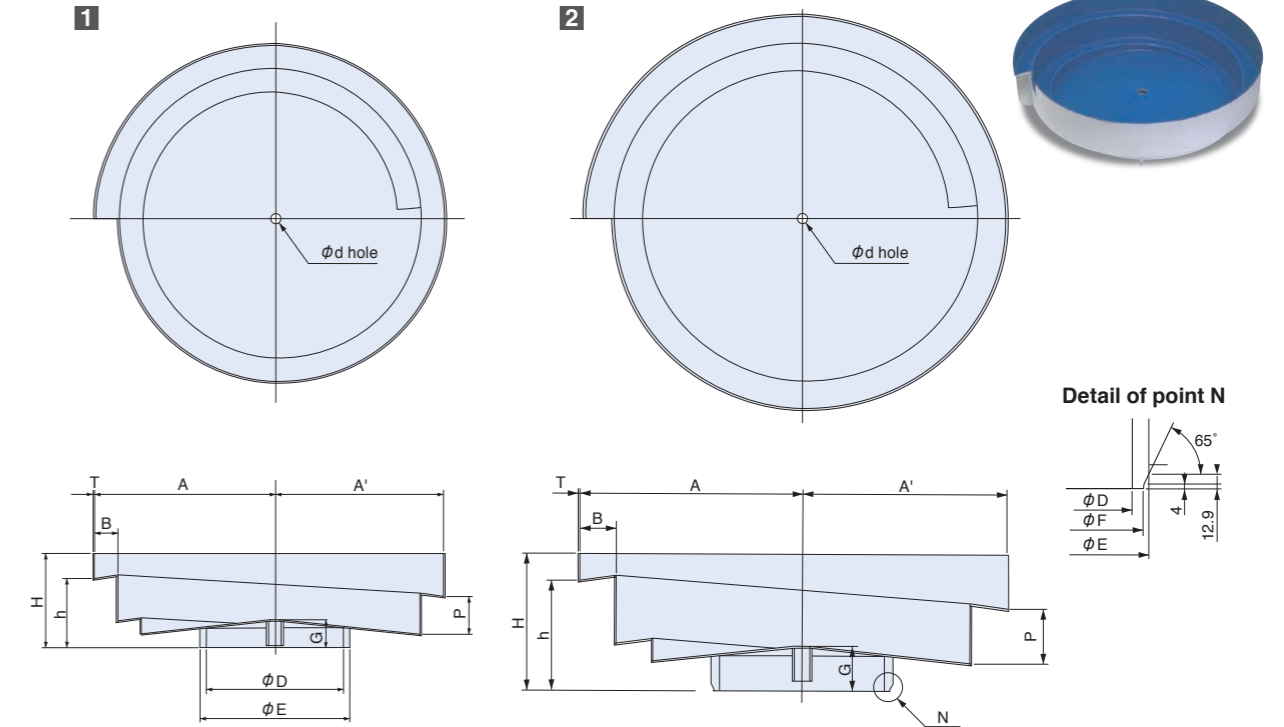
Diagrams show counter-clockwise orientation

Dimensions

Unit: mm

Cascade Bowl

Track circuits: 1 · 1/2



Dimensions Chart

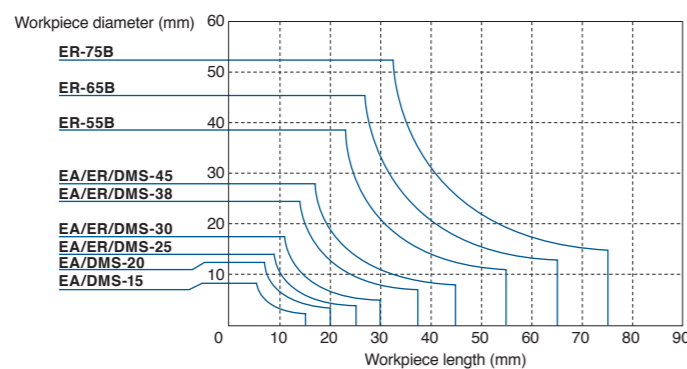
Unit: mm

Model	φA	B	φD	φE	G	H	P	h	φd	T	Approx. Weight (kg)	Capacity (ℓ)
EA/DMS-15	150	12	73.1	89.1	22	70	18	56	8.2	1.5	1.1	0.1
EA/DMS-20	200	18	104	120	25	85	24	69	10.2	1.5	1.8	0.2
EA/ER/DMS-25	250	20	143	159	27	100	30	83	12.2	2	3.2	0.5
EA/ER/DMS-30	300	25	174.7	190.7	35	125	36	101	12.2	2	5.0	0.8
EA/ER/DMS-38	375	35	216	232	43	155	46	129	16.2	2	8.0	1.7
EA/ER/DMS-45	450	40	282.5	298.5	52	190	56	156	16.2	3	15.0	3.0

Model	φA	B	φD	φE	φF	G	H	P	h	φd	T	Approx. Weight (kg)	Capacity (ℓ)
ER-55B	550	55	288.5	318.5	309.2	78	266	76	221	25	3	28	5
ER-65B	650	65	373	406.4	397.2	88	311	90	258	25	3	39	10
ER-75B	750	75	477.8	508	498.7	99	366	108	303	25	3	54	15

Notes 1) Bowls are made of stainless steel, and standard color is differ from color of pictures above. 2) Bowls available with clockwise or counter-clockwise orientation. 3) Capacity varies according to the type of workpiece. *When supplied unprocessed, neither inside nor outside has been surface-treated.

Straight wall Bowl Selection Guide



Dimensions Chart

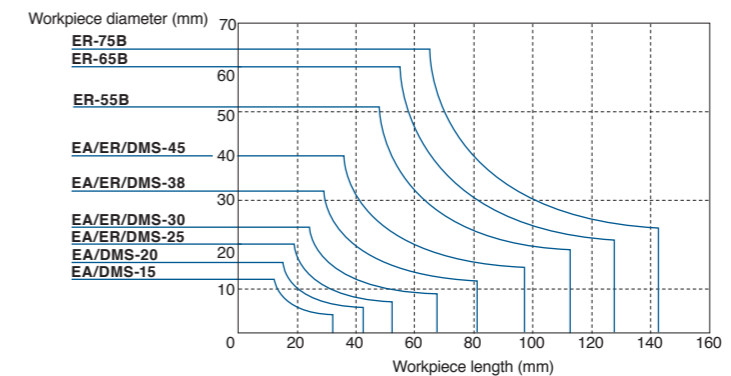
Unit: mm

Model	Approx. diameter	A	A'	B	H	h	P	φd	φD	φE	G	T	Approx. Weight (kg)	Capacity (ℓ)
EA/DMS-15	215	110	102.5	15	65	50	24	8.2	73.1	89.1	23	2	1.3	0.4
EA/DMS-20	280	145	135	20	80	59	30	10.2	104	120	26	2	2.2	0.8
EA/ER/DMS-25	350	180	167.5	25	95	70	38	12.2	143	159	28	2	3.3	1.6
EA/ER/DMS-30	450	230	215	30	120	88	48	12.2	174.7	190.7	36	2	5.4	3.5
EA/ER/DMS-38	540	280	260	40	150	109	58	16.2	216	232	45	2	8	6
EA/ER/DMS-45	650	335	310	50	185	135	72	16.2	282.5	298.5	54	3	16	10

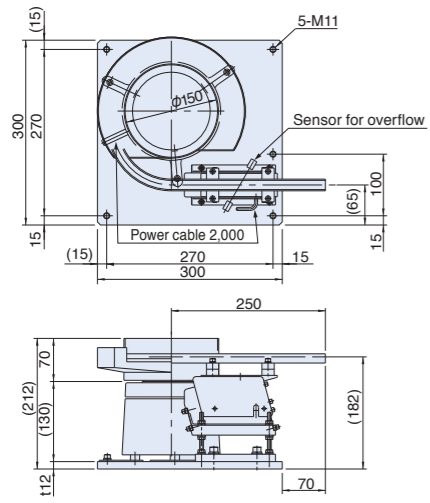
Model	Approx. diameter	A	A'	B	H	h	P	φd	φD	φE	φF	G	T	Approx. Weight (kg)	Capacity (ℓ)
ER-55B	750	390	358	64	240	193	96	25	288.5	318.5	309.2	78	3	26	17
ER-65B	850	445	405	80	306	236	120	25	373	406.4	397.2	88	3	37	20
ER-75B	950	495	455	80	346	256	130	25	477.8	508	498.7	99	3	47	25

Notes 1) Bowls are made of stainless steel, and standard color is differ from color of pictures above. 2) Bowls available with clockwise or counter-clockwise orientation. 3) Capacity varies according to the type of workpiece. *When supplied unprocessed, neither inside nor outside has been surface-treated.

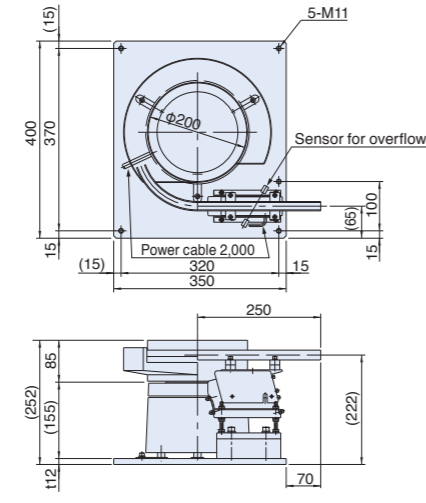
Cascade Bowl Selection Guide



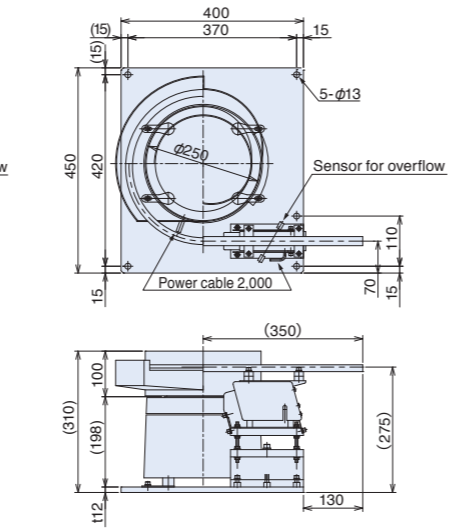
1 EA/DMS-15+LFB-300



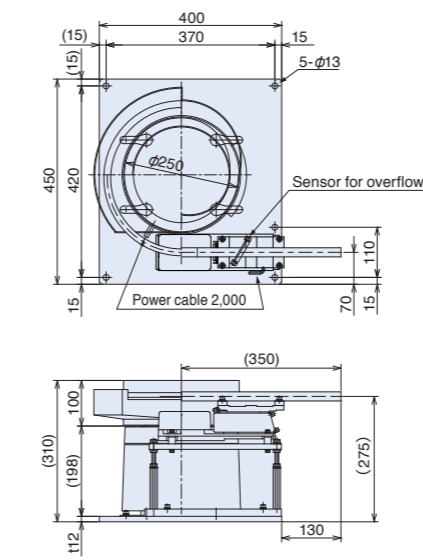
2 EA/DMS-20+LFB-300



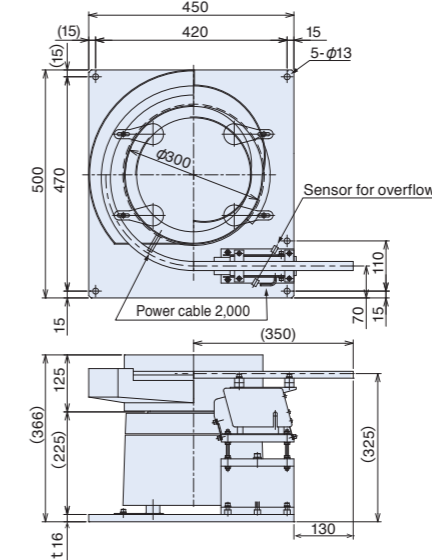
3 EA/ER/DMS-25+LFB-400



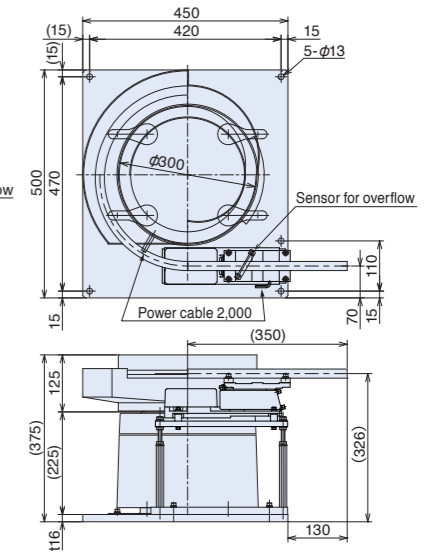
4 EA/ER/DMS-25+LFG-600



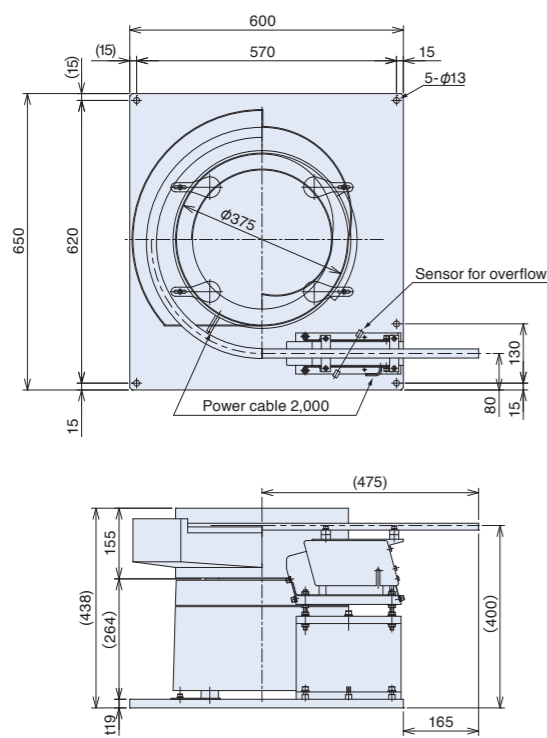
5 EA/ER/DMS-30+LFB-400



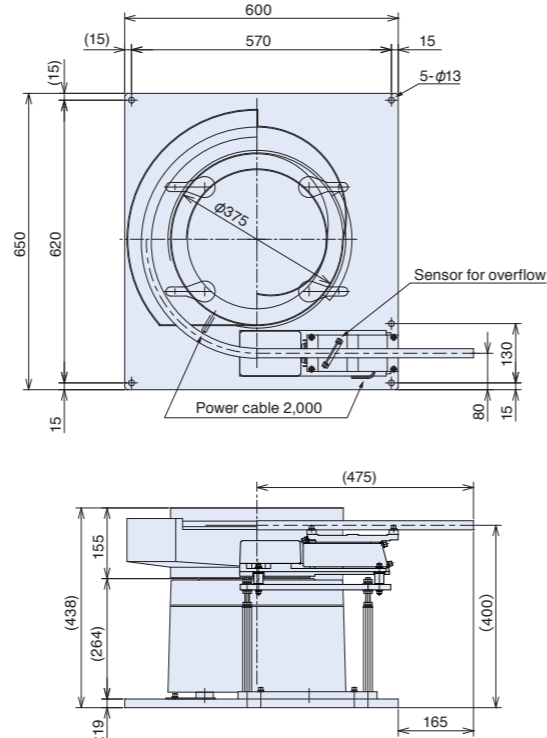
6 EA/ER/DMS-30+LFG-600



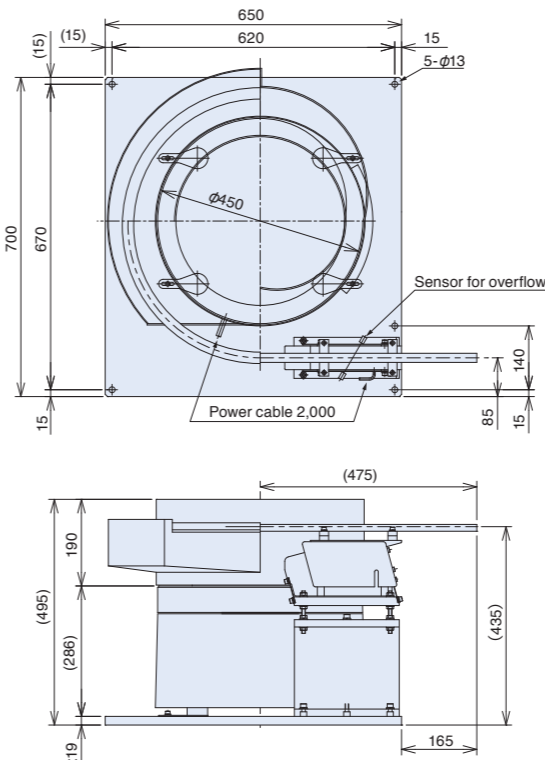
7 EA/ER/DMS-38+LFB-550



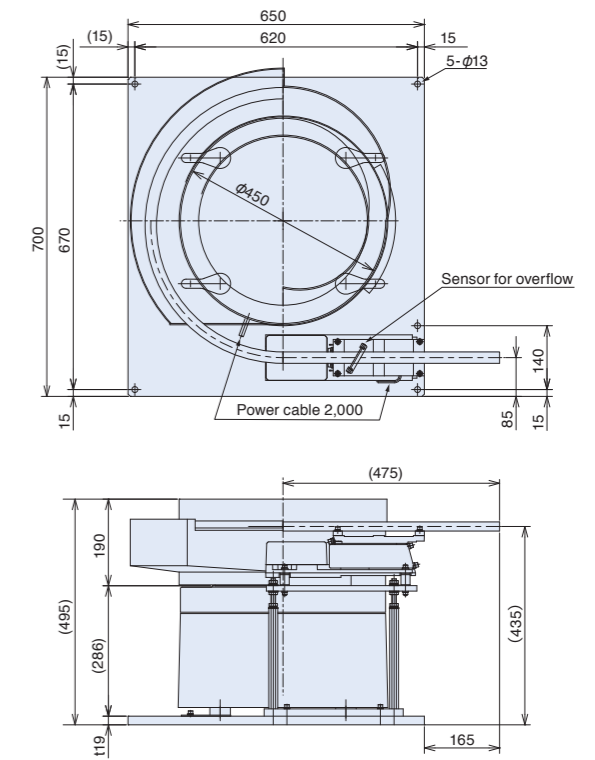
8 EA/ER/DMS-38+LFG-750



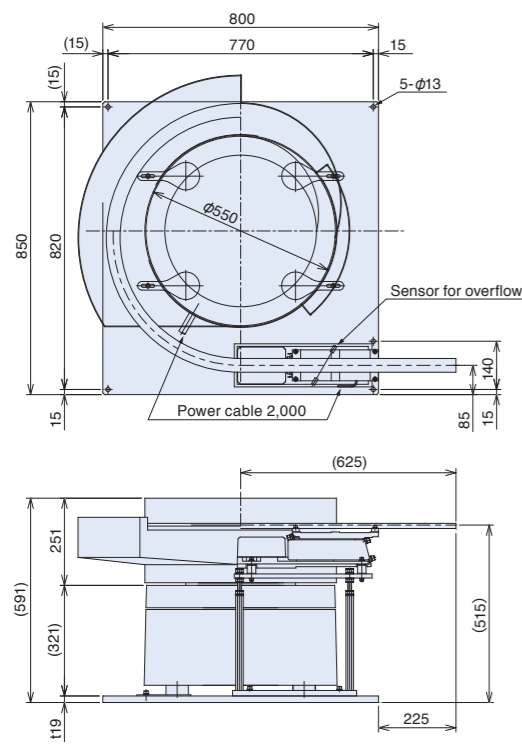
9 EA/ER/DMS-45+LFB-550



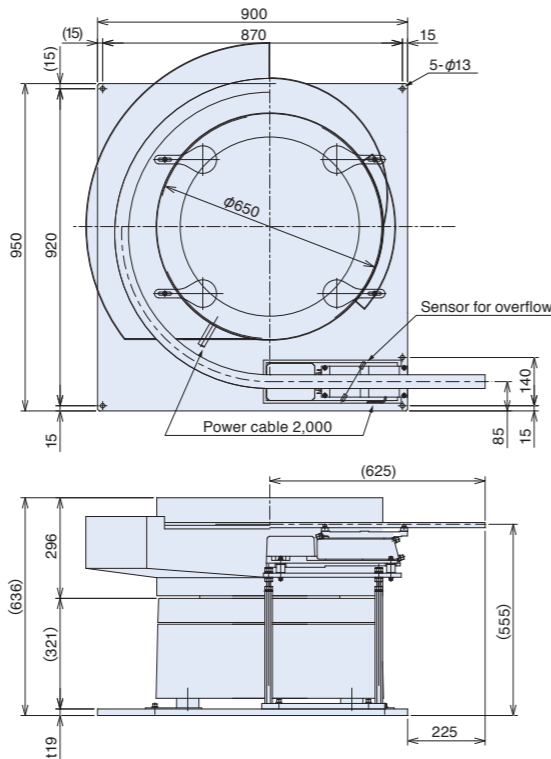
10 EA/ER/DMS-45+LFG-750



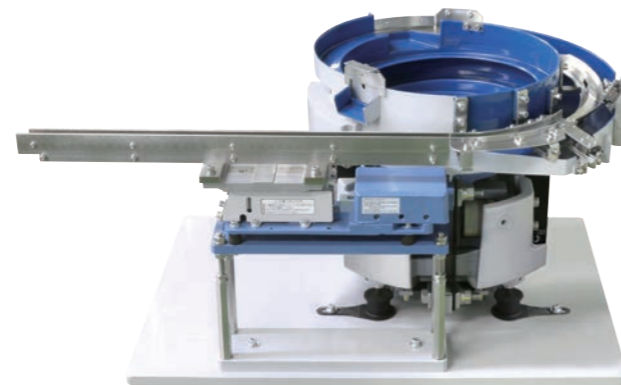
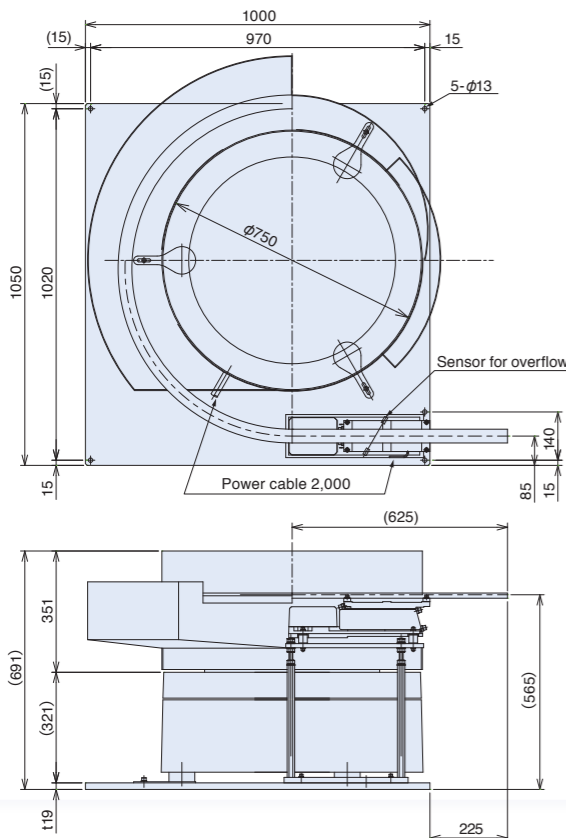
11 ER-55B+LFG-900



12 ER-65B+LFG-900



13 ER-75B+LFG-900



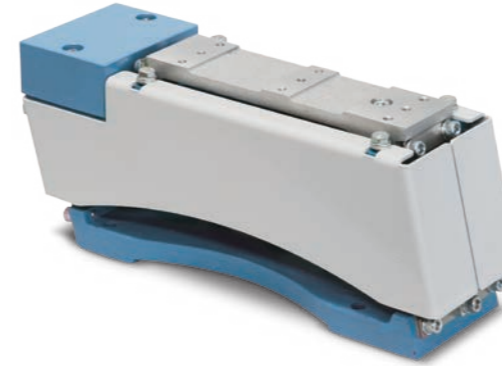
Parts Feeder Model	Linear Feeder Model					
	Leaf-spring vibro-isolating			Rubber-mount vibro-isolating		
	LFB-300	LFB-400	LFB-550	LFG-600	LFG-750	LFG-900
EA/DMS-15	1					
EA/DMS-20	2					
EA/ER/DMS-25		3		4		
EA/ER/DMS-30		5		6		
EA/ER/DMS-38			7		8	
EA/ER/DMS-45			9		10	
ER-55B						11
ER-65B					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

Unit: mm

Low-reaction force linear feeder with less floor reaction

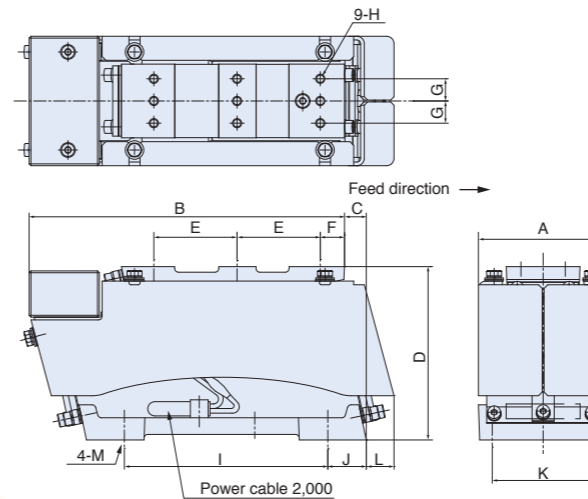
A leaf-spring vibro-isolating type linear feeder with reduced floor reaction. We enabled low-reaction force, high accuracy and smooth parts conveyance through our review of the drive unit mechanism in detail.



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	mm ²	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)					
					L1	L2	L3	L4	L5
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)								
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

