

苏州汇利得机械有限公司
Fengqi Industry Co. Ltd.

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地址：苏州相城黄桥工业一区兴业东路1号 邮编：215132

电话：+86-0512-80813856

传真：+86-0512-80813855

手机：+86-150 0613 9272

邮箱：sales@fqindustry.com

邮编：215132

网页：www.fqindustry.com

David Su

Fengqi Industry Co. Ltd.

Add: No. 1, Xingye Dong Rd., Huangqiao, Xiangcheng, Suzhou, China, 215132

Tel: +86-512- 8081 3856 Mobile: +86-512 8081 3855

E-mail: sales@fqindustry.com

Web : www.fqindustry.com



企業簡介 COMPANY PROFILE

苏州汇利得机械有限公司是一家专业从事自动化及振动设备的设计、生产、销售为一体的科技型企业。公司采用国内外先进的制作工艺为您提供优质、稳定的产品。产品包括：振动盘、直线送料器、滚筒式给料机、离心式给料机、排序提升机、振动平台、自动送料仓、输送带、自动化组装设备及周边设备的设计和制作。产品广泛应用于轻工机械、电子、五金、塑胶、玩具、医药、食品等各行业。

我们的宗旨是：秉承“严谨、科学、规范、高效”的工作作风；本着“卓越协作、求实创新、持续稳定”地向客户解决一个又一个的工件自动排序送料领域的难题，并且将供货周期降到最短！雄厚的技术力量和优质的售后服务为您解决使用产品的后顾之忧。

我们真诚希望能与您携手合作，共创辉煌！

欢迎广大客户前来咨询、订购！

Fengqi Industry Co., Ltd. is the exclusive manufacturer of automation products for use in assembly operations and production lines. We offer electromagnetic bowl feeder, piezoelectric bowl feeder, drum feeder, centrifugal feeders, orienting and elevating feeder, bulk supply hoppers, conveyors, vibration table and automation systems for specialized parts handling requirements and material handling system. We also can design & fabricate both production quantities and custom one-of-a-kind sheet metal parts and assemblies for our valued customers.





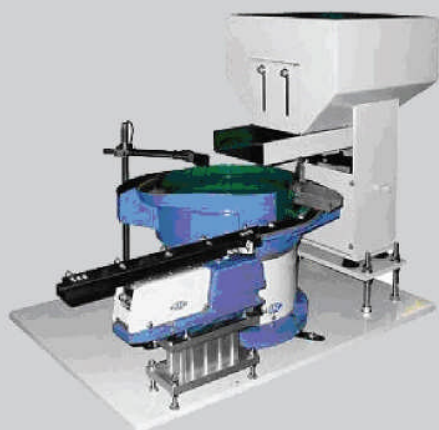
1、振动盘

Vibratory Bowl Feeder

振动盘是一种自动组装或自动加工机械的辅助送料设备。它能把各种产品有序地排列出来，配合自动组装设备将产品各个部位组装起来成为完整的一个产品，或者配合自动加工机械完成对工件的加工。

振动盘主要由料斗、底盘、控制器、直线送料器等配套组成。按激励方式可分为电磁式和压电式。振动盘除满足产品排序外还可用于分选、检测、计数包装，是一种现代化高科技产品。

Vibratory bowl feeders are used in many different industries. The fastener, food, electronics, ordinance, automotive, packaging, pharmaceutical and plastic industries are just some of those we serve. Bolts, tablets, connectors, capacitors and bullet casings, as well as parts that are small or large, light or heavy, simple or intricate are handled with ease.



振动盘系统

Vibratory bowl feeder,
linear feeder and hopper



振动盘食品方面的应用

Bottle cap bowl feeder



振动盘医药方面的应用

Pharmaceutical bowl feeder



压电式铝振动盘(CNC)

Piezoelectric bowl feeder
with aluminum casting



振动底盘

Electromagnetic Feeder Drives

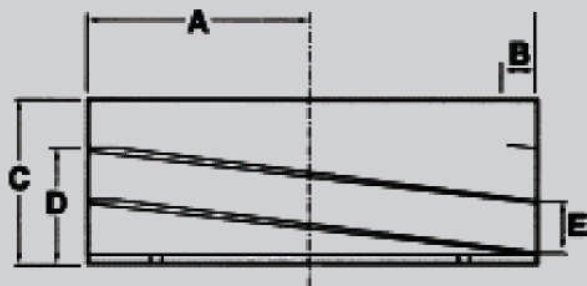
振动盘底盘的分类：底盘有正拉底盘、侧拉底盘、压电式底盘、精密底盘四种。

电源：220V/50Hz/60Hz (AC), 110V/50Hz/60Hz (AC).

Vibratory bowl feeder drive is taking productivity and versatility in vibratory parts feeding to new heights. And our drive is a brilliant balance of power and control and is designed to accommodate a total range of parts feeding needs.

Our feeder drive includes electromagnetic and pizeoelectric.

Power: 220V/50Hz/60Hz(AC),110V/50Hz/60Hz(AC).



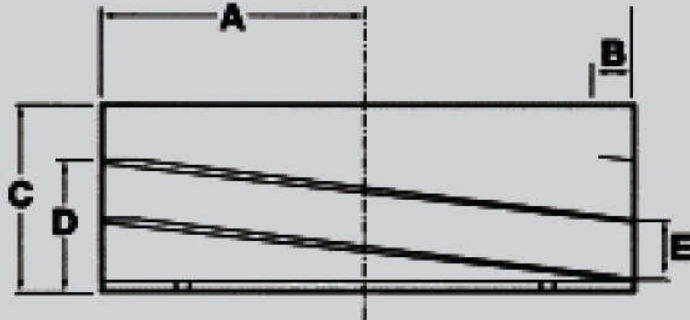
型号 Model	A (mm)	B (mm)	重量 Weight(kg)	盘直径 Bowl Dia.(mm)
BF-00	160	120	8	160-200
BF-01	200	140	10	200-230
BF-02	250	210	30	250-290
BF-03	300	243	40	300-370
BF-04	320	300	60	350-420
BF-05	380	300	70	400-520
BF-06	447	300	110	500-700
BF-07	500	300	150	600-800



筒形盘

Cylindrical Bowls

These bowls provide a constant feed of components. They are ideal for small components, but have restricted capacity for some applications.

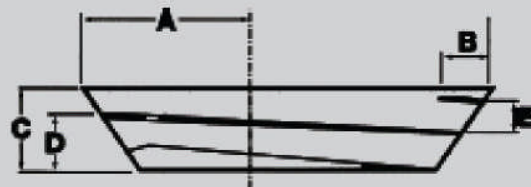


型号 Model	CB-1	CB-2	CB-3	CB-4	CB-5	CB-6	CB-7	CB-8	CB-9	CB-10
尺寸 Dimension										
A(mm)	84	90	125	175	254	200	220	381	335	335
B(mm)	12	12	15	30	15	25	30	75	50	50
C(mm)	70	80	110	130	180	160	160	250	180	195
D(mm)	64	65	73	120	107	107	141	167	156	167
E(mm)	22	22	120	33	45	45	70	82	70	70
容量 Capacity(ltrs)	0.5	0.8	1.2	1.6	2	1.8	7	23	20	20

锥形盘

Conical Bowls

A conical bowl provides a higher capacity and with an increase in radius, assists with the presingulation of components. Where necessary, the standard track width, track pitch and the amount of tracks can be adapted to suit the application. The closed track type is particularly suitable for pharmaceutical applications.



模型 Model	NB-1	NB-2	NB-3	NB-4	NB-5	NB-6	NB-7	NB-8	NB-9
尺寸 Dimension									
A(mm)	133	202	208	240	335	372	335	449	449
B(mm)	18	20	20	8	50	15	15	50	50
C(mm)	55	90	115	150	160	220	190	180	190
D(mm)	47	77	111	138	153	169	180	172	167
E(mm)	25	32	32	40	68	71	68	70	70
容量 Capacity(Ltrs)	0.5	2	2	2	10	10	10	20	20

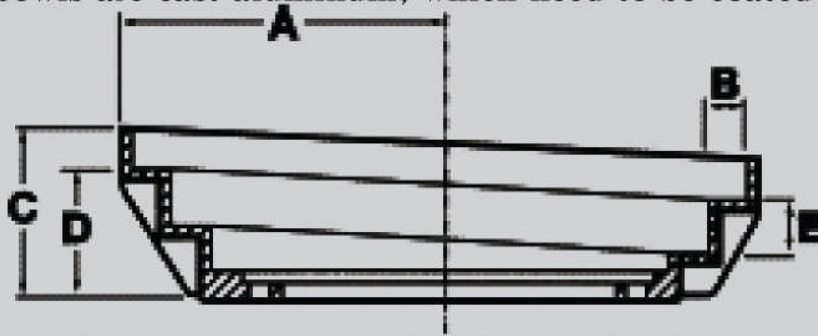


等分盘

Stepped Bowl

Stepped bowls have a larger feeding track width and are particularly suited to pre-orientation of components. The capacity is larger than that of a cylindrical bowl. A further advantage is that the components do not jam in the tracks.

All stepped bowls are cast aluminum, which need to be coated.



模型 Model	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14
尺寸 Dimension														
A	101	115	160	140	160	200	267	229	270	335	305	381	381	440
B	10	10	20	19	20	32	32	25	32	50	38	50	75	50
C	60	80	90	72	95	125	152	129	150	190	159	192	152	220
D	53	64	70	38	75	90	110	102	110	140	110	140	105	155
E	25	34	32	25	30	40	50	51	50	65	55	110	102	77
Capacity(Ltrs)	0.3	0.5	1	0.8	1	2	7	2	7	10	7	18	15	25

U涂层：PU涂层具有耐磨性、高弹性，可以减小噪声和保护物料的破坏。

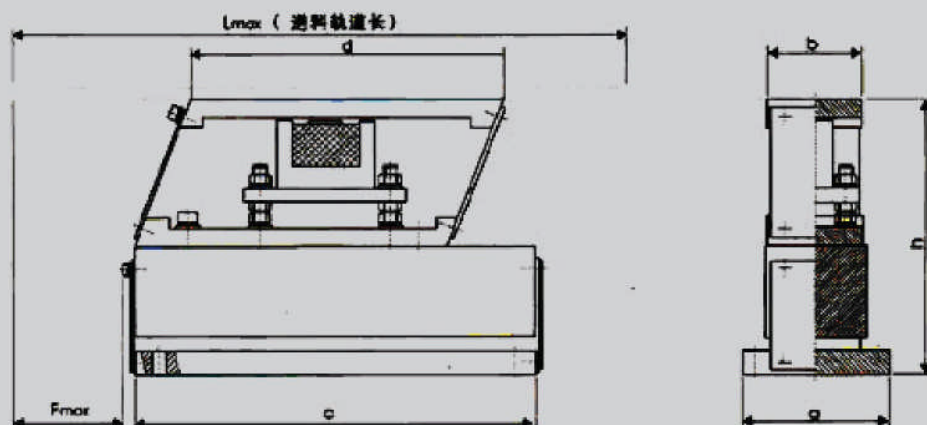
Coating: Coating minimises the wear and tear of the bowl, reduces noise and damage to components. The coating material can be selected according to the application.

Slot Sensors: Slot sensors are mainly used for the recognition of components for minimum/maximum level control on an accumulating and linear track.

直线送料器 Linear drivers

直线送料器是将排列好了的产品呈直线运动的方式输送的振动源。

As parts discharge from a vibratory bowl feeder, it is important to maintain feed rate as parts convey horizontally to their next processing point. The design of the Linear Drive provides ample power to handle a wide range of linear tracks. Tuning is made simple due to the substantial base weight relative to the weight of the conveying track.



模型 Model	L_{max} (mm)	a(mm)	b(mm)	c(mm)	d(mm)	h(mm)	f_{max} (mm)	双振幅 stroke(mm)
LD-01	300	35	30	140	115	85	100	0.1
LD-02	450	100	60	152	124	150	160	0.2
LD-03	550	100	60	270	210	170	200	0.3
LD-04	900	150	75	480	550	270	250	0.3

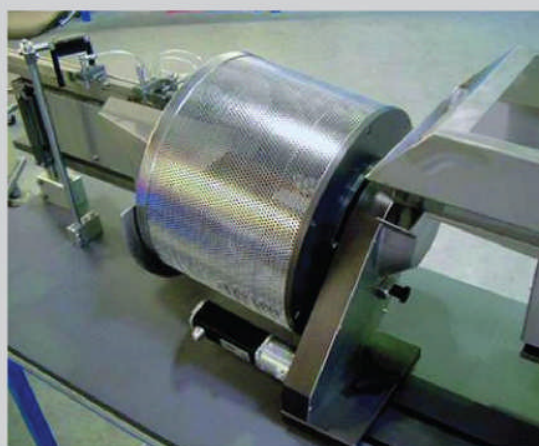
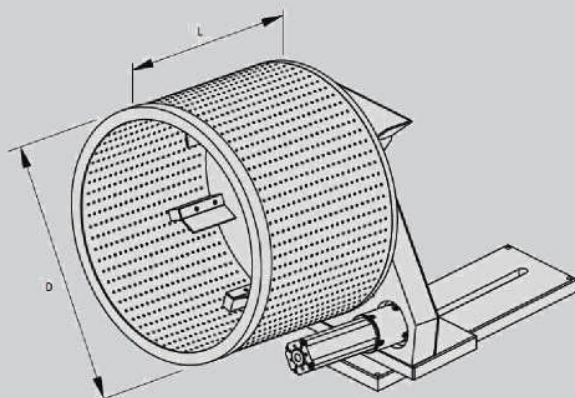
2. 滚筒式给料机

Drum feeder

外形简单的零部件和薄型零部件输送方面滚筒式送料器有简单、易用、成本低的特点，而且同样稳定高效。

Drum feeders are perfect for parts that are relatively small and easily oriented. Parts are brought out of the drum on the linear tooling, which also hold parts in back-pressure to serve as a buffer. Other features are as follows:

- low cost
- very small footprint
- quiet operation with long-life tooling
- high-level sensor on linear tooling standard
- available options include loading chute, dual lane output, drum-low sensor, and more.





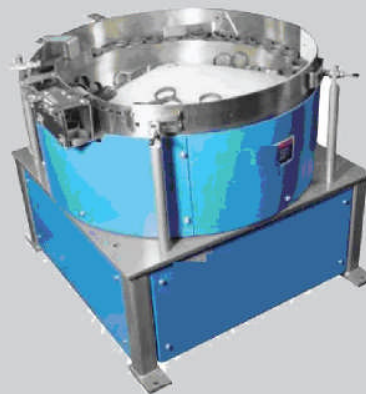
型号 Drum feeder model	DF 200	DF350	DF800
直径 Drum diameter(D)	200	350	800
长度 Drum length(L)	60-200	100-350	500-800
无碳刷直流电机，速度可调；结构紧凑，电机和滚筒平行 Brushless DC motor; speed can be adjusted to specific needs Compact bearings integrated into the drum housing, motor parallel to drum			

3. 离心式给料机

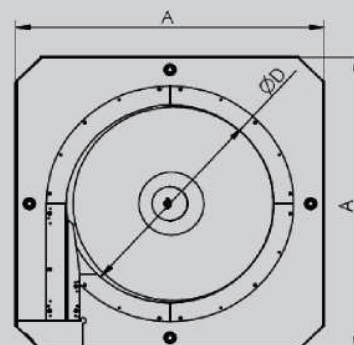
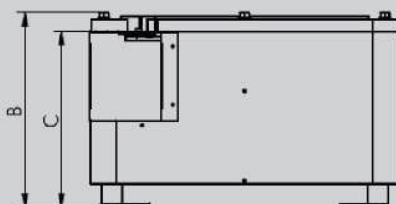
Centrifugal Feeder

在排序比较简单的情况下，为得到比较高的速度。为此，我们研发出了旋转给料机。旋转给料机允许以高速给料，速度可超过1000pcs/min，而且噪音低、振动小。

Sometimes it's simply not enough to feed and orient parts. Sometimes what you really need is high-speed orientation. Our centrifugal feeders are noted for their ability to feed and orient parts at high rates that cannot be matched by other types of parts feeders. In addition, the feeder performs at very low noise levels, improving the work environment for the operator.



型号 model	尺寸 dimension(mm)			
	A	B	C	φ D
CF50	600	380 ± 10	345 ± 10	406
CF100	1100	535 ± 10	500 ± 15	812





4. 阶梯给料器

Step feeder

排序圆形且对称的物料阶梯给料机是一个比较理想的给料机。譬如：螺丝、圆环、盖子等等。这些物料可以在阶梯上分离开，在后面的给料机构里进行定向和排序。

Step feeders are ideal for the sorting and feeding of rotationally symmetrical parts like screws, rings, caps, etc. The parts are separated by the steps, then oriented and sorted on the subsequent feeding segment.

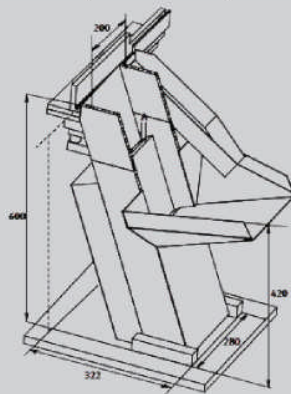
a. Variable step depth

b. Easy setup

c. Fast and easy commissioning

d. Economical maintenance

Model	Step depth(mm)	Step wide(mm)	Number of step	Outlet high(mm)	Funnel capacity(dm ³)	drive	Weight (kg)	Sorting rail(mm)
SF200	10/15/20	200	2	600	5	motor	50	200-1000

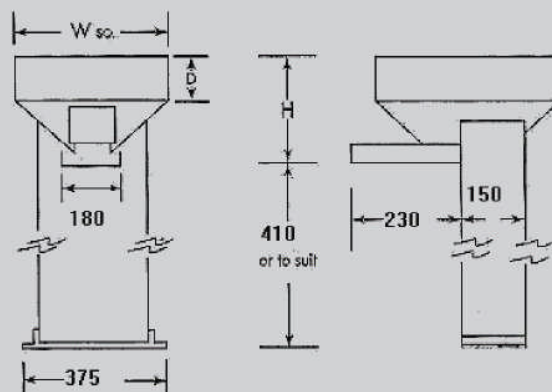


4. 自动送料仓

Bulk Supply hopper

自动送料仓是用来给振动盘自动提供物料的，其给料速度可调。

Vibratory supply hoppers are designed for the controlled feeding of bulk parts into bowl feeders. The vibrating tray under the bin is turned on and off by a paddle switch or other sensor in the bowl. The feed rate is set by adjusting the door opening in the bin and adjusting the amplitude of the vibrating tray (which is regulated by the controller).



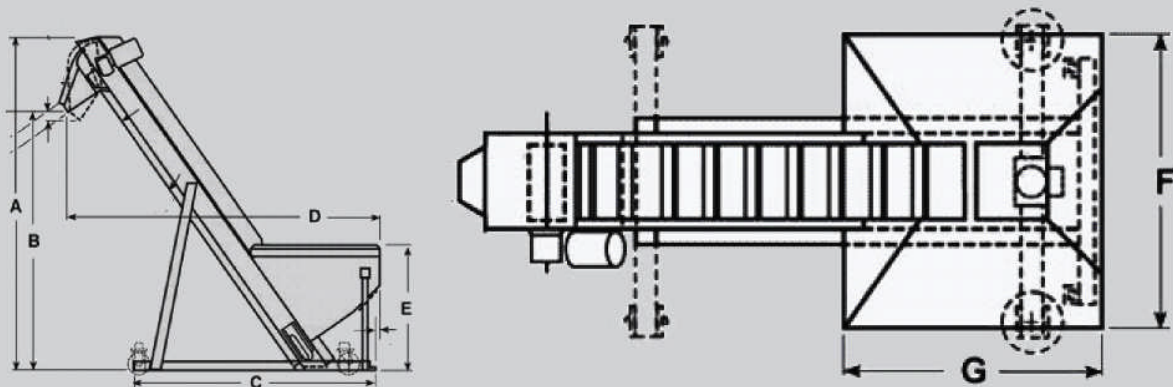


型号 Model	容量 Capacity (m ³)	W(cm)	D(cm)	H(cm)	重量 Weight(kg)
SH-01	0.014	390	64	230	27
SH-02	0.028	405	150	320	38
SH-03	0.056	450	200	400	45
SH-04	0.084	600	150	400	52
SH-05	0.112	600	230	480	56
SH-06	0.141	600	300	550	63
SH-07	0.169	600	380	635	68

5、斗式提升机Belt Elevator Hoppers

斗式提升机，是一种固定装置的机械输送设备，主要适用于粉状、颗粒状及小块物料的连续垂直提升，可广泛应用于轻工机械、电子、五金、塑胶、玩具、医药、食品等行业的散装物料的提升。

Belt Elevator Hopper feeds parts directly from the supply hopper onto a cleated belt, thus eliminating the need for an intermediate trough feeder between the hopper and belt elevator.



型号 Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
BEH-01	1450	850	1500	1650	700-1100	700/1100	900/1050
BEH-02	1700	1100	1500	1820	700-1100	700/1100	900/1050
BEH-03	1950	1350	1500	2000	700-1100	700/1100	900/1050
BEH-04	2200	1600	1880	2200	700-1100	700/1100	900/1050

7、排序提升机

Orienting & Elevating Feeder

排序提升机广泛应用于圆形、质量轻的物料，比如瓶盖，塑料盘子。利用物料其本身的特性，来实现提升和排序的功能。

The Orienting and Elevating Feeder (OEF) is built to handle a wide range of round, lightweight parts such as caps, lids and plastic discs. The OEF is designed to draw parts from its hopper via a cleated belt. Parts rest on these cleats and advance to a vertical elevator section where orientation occurs. Parts with their heavy side



an external side discharge chute on to their next destination. All other parts over-balance and fall off the cleat, back into the hopper.

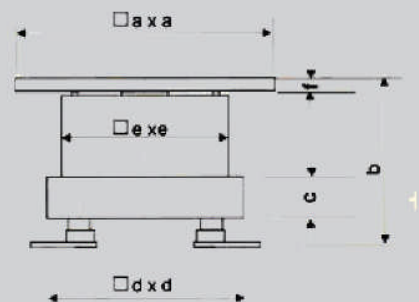


8、振动平台

Vibrating table

振动平台一般分为电磁式振动平台和电机式振动平台，主要做垂直振动或水平振动，电机式振动平台也可以实现异步的三维振动。主要用于把颗粒、粉状的物料振实或者将自由下落就能区分方向的细小工件振入装配位置进行下一轮加工。

Vibrating tables are designed to settle and compact dry bulk materials in various types of containers. Their application provides either a sizable increase in the net weight of the container or a reduction in the container size with subsequent savings in shipping and storage space. Vibrating tables are available in three types: electromagnetic, electromechanical and pneumatic. The choice of the proper types and model depends upon the characteristics of the material or objects being handled and its reaction to vibration, the maximum weight to be handled and the type of container.



长度单位: mm 电源电压: 220V 频率: 50Hz
功率: kW 噪音: 分贝 振幅: mm

型号 Model	axa(mm)	b(mm)	c(mm)	dxd(mm)	exe(mm)	双振幅 Stroke(mm)
VT-01	300x300	120	25	250x250	230x230	3
VT-02	450x450	158	35	300x300	280x280	4
VT-03	700x700	200	50	400x400	380x380	5



苏州汇利得机械有限公司

电机式振动平台

Electromechanical vibrating table



9、振动盘控制器

Feeder controller

调压控制器

Digital Voltage Stabilizing Vibratory Feeder Controller



FQSC-01



FQSC-02

数字调压控制器

Intelligent Digital Variable Voltage Vibratory Feeder Controller



FQSC-03



FQSC-04



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FQSC-06



FQSC-07



FQSC-08

调压调频控制器

Intelligent Digital Variable Voltage and Variable Frequency Vibratory Feeder Controller



FQSC-10



FQSC-11