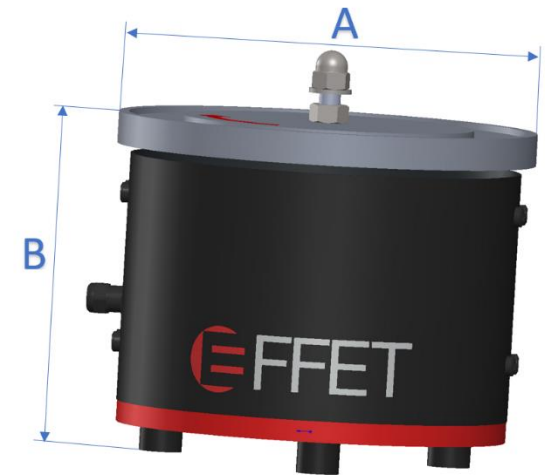


Circular drives BVD

Circular drives are used in combination with conical or cylindrical funnels. When the power is on, an electromagnetic coil oscillates the top plate of the drive on which the funnel is attached. Once the funnel is oscillated, the parts begin to move in a spiral path towards the outlet of the funnel.

The speed of movement of the parts is set by a digital controller.

	Parameter	Unit	BVD 180	BVD 230	BVD 280	BVD 380	BVD 480
Diameter	A	mm	195	245	295	395	510
Height	B	mm	160	160	190	200	210
Feeding velocity	v_d	m/min	0-15	0-10	0-8	0-8	0-8
Voltage	U	V (AC)	230	230	230	230	230
Power input	P	VA	136	136	282	272	564
Ingress protection	IP	-	IP54	IP54	IP54	IP54	IP54
Mass	m	kg	12,5	18,5	24	50	85

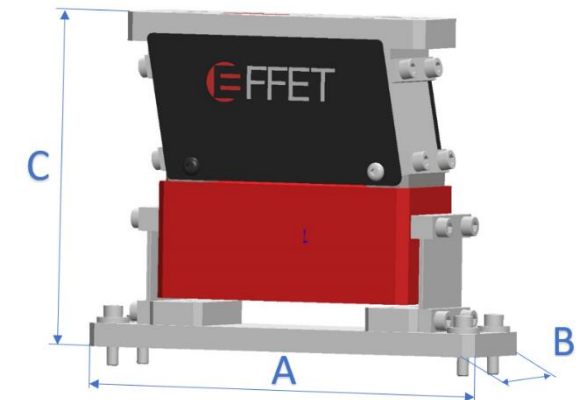


Linear drives LVD

Linear drives are used in combination with a linear track or as a preloader for vibratory bowls. In both cases, the speed of movement of the parts is set by a digital controller.

- Linear track which is attached to a drive is developed and manufactured depending on a part shape and dimension.
- The length of the linear track is determined by the installation location in the machine and the type (power) of the linear drive.
- The preloader is designed and manufactured according to the customer's requirement. The size is designed according to the number and size of parts to be fed.

	Parameter	Unit	LVD 280	LVD 380	LVD 580
Length	A	mm	175	260	340
Width	B	mm	60	60	80
Height	C	mm	175	175	223
Feeding velocity	v_d	m/min	0-10	0-8	0-8
Voltage	U	V (AC)	230	230	230
Power input	P	VA	15	15	70
Ingress protection	IP	-	IP54	IP54	IP54
Mass	m	kg	7,5	9	20

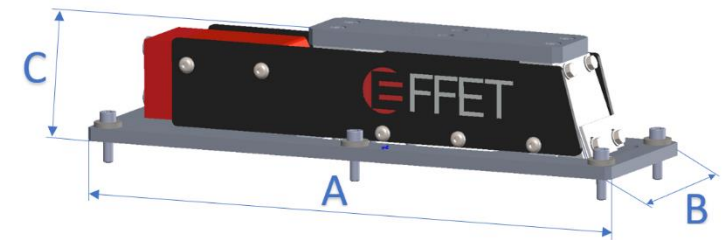


Linear drives LVD – SLIM

Linear drives are used in combination with a linear track or as a preloader for vibratory bowls. In both cases, the speed of movement of the parts is set by a digital controller. Advantage of this type of drive is its low building height.

- Linear track which is attached to a drive is developed and manufactured depending on a part shape and dimension.
- The length of the linear track is determined by the installation location in the machine and the type (power) of the linear drive.
- The preloader is designed and manufactured according to the customer's requirement. The size is designed according to the number and size of parts to be fed.

	Parameter	Unit	LVD - SLIM 380	LVD - SLIM 580
Length	A	mm	350	550
Width	B	mm	100	100
Height	C	mm	75	80
Feeding velocity	v_d	m/min	0-8	0-8
Voltage	U	V (AC)	230	230
Power input	P	VA	15	70
Ingress protection	IP	-	IP54	IP54
Mass	m	kg	8	19

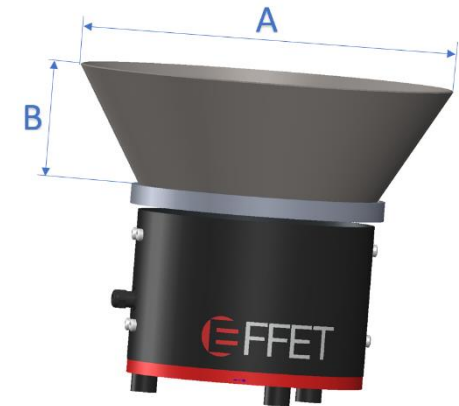


Conical funnel BVF

All funnels are made of stainless steel and are designed according to the required parameters, size and shape of the parts. For this reason, the dimensions given in the tables bellow are only informative. The spiral track in the funnels can be single pass or double pass. The direction of the spiral is right or left-handed. Conical funnels are installed in combination with a linear drive.

	Parameter	Unit	BVF 180	BVF 230	BVF 280	BVF 380	BVF 480
Upper diameter	A	mm	295	320	485	610	715
Height	B	mm	95	105	175	220	230
Mass*	m	kg	2	2,5	3,5	6	10

*The average weight of the funnel depends on its design for parts to be fed.

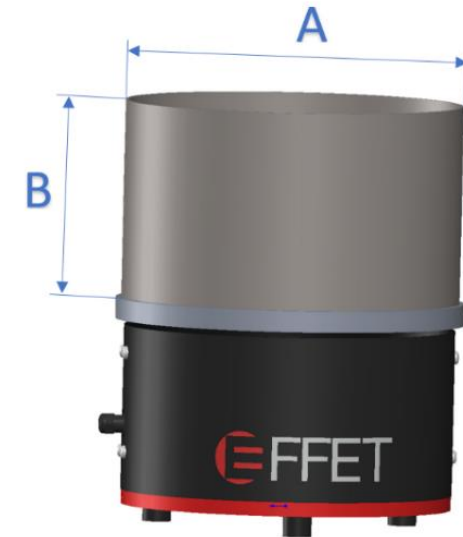


Circular bowl BVF – C

All funnels are made of stainless steel and are designed according to the required parameters, size and shape of the parts. For this reason, the dimensions given in the tables bellow are only informative. The spiral track in the funnels can be single pass or double pass. The direction of the spiral is right or left-handed. Conical funnels are installed in combination with a linear drive.

	Parameter	Unit	BVF 180-C	BVF 230-C	BVF 280-C	BVF 380-C	BVF 480-C
Diameter	A	mm	180	230	280	380	480
Height	B	mm	95	105	175	220	230
Voltage	U	V (AC)	230	230	230	230	230
Power input	P	VA	136	136	282	272	564
Ingress protection	IP	-	IP54	IP54	IP54	IP54	IP54
Mass*	m _c	kg	14,5	21	27,5	55	94

*The average weight of the assembly depends on the design of the funnel.



Linear preloader

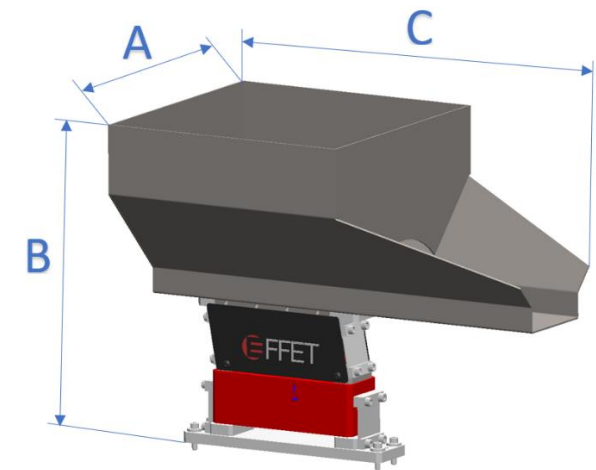
The linear **LVD** or **LVD - SLIM drive** is used to drive the preloader. The installation of the preloader maintains a consistent quantity of parts in the funnel.

This allows a more constant movement of parts and also extends the interval required for refilling parts.

The preloader is designed and manufactured according to customer requirements. The size is based on the number and size of the parts to be fed.

	Parameter	Unit	LVD 280	LVD 380	LVD 580	LVD - SLIM 380	LVD - SLIM 580
Width	A	mm	dimensions of the preloader depend on the design and volume of the funnel according to the customer's requirements				
Height	B	mm					
Length	C	mm					
Voltage	U	V (AC)	230	230	230	230	230
Power input	P	VA	15	15	70	14	70
Ingress protection	IP	-	IP54	IP54	IP54	IP54	IP54
Mass	m	kg	7,5 + *	9 + *	20 + *	8 + *	19 + *

*The weight of the preloader depends on the design and volume of the funnel



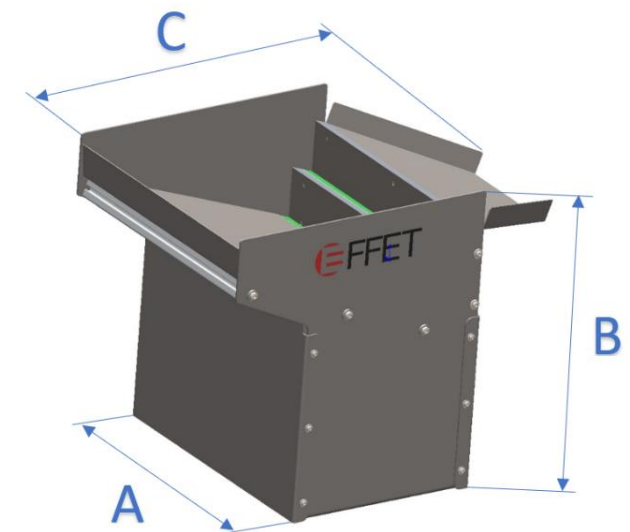
Cascade feeders

Cascade feeders are used for transporting small parts as well as long parts (e.g. for feeding pipes, rods, etc.). After being picked up, the parts are partially oriented.

In some cases, the cascade preloader can also be used as the main feeding device in combination with a linear drive or belt conveyor. By installing a preloader, a consistent quantity of parts is maintained in the funnel. This allows for a more consistent feeding of parts and also extends the interval required for the refilling of parts.

The drive of the cascade preloader is pneumatically operated. The size of the cascade preloader depends on the size and number of pieces in the preloader.

These cascade preloaders are designed and manufactured according to the customer's requirement for the number of parts in the preloader.



Belt preloader

The belt preloader is used for filling parts, for example into conical or cylindrical funnels. The installation of the preloader maintains a consistent quantity of parts in the funnel. This allows for a more consistent movement of parts and also extends the interval required for refilling parts. The drive of the belt preloader is servo-driven. The size of the belt preloader depends on the size and number of pieces in the preloader.

These belt preloaders are designed and manufactured according to customer requirements.

