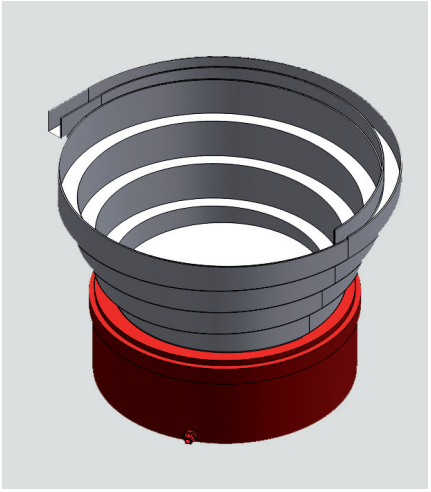
Bowl feeder

Characteristics

The Grimm bowl feeders not only allow „difficult" parts to be sorted, but also have a very good price/ performance ratio. We offer you sorting bowls having diameters between 70 mm and 1200 mm in three different shapes: cylindrical, step-shaped or conical. Even rough environmental influences, such as oil or dirt, are no problem for the Grimm bowl feeders. Clean room or pharmaceutical versions can also be realized.

Bowl feeder structure



The structure of a bowl feeder is always characterized by two major components:

- the sorting bowl (top part), in which the parts are aligned and
- the drive, which generates vibrations in the sorting bowl by means of mechanical oscillations, thereby putting the parts in motion.

Technical data, top part

Bowl feeder - top part, cylindrical									
Designation, top part (steel)	**SZ150**	**SZ200**	**SZ300**	**SZ400**	**SZ450**	**SZ500**	**SZ550**	**SZ600**	**SZ800**
Designation, top part (stainless steel)	**EZ150**	**EZ200**	**EZ300**	**EZ400**	**EZ450**	**EZ500**	**EZ550**	**EZ600**	**EZ800**
Max. filling volume approx. [dm³]*	0.5	1	1.5	5	7	9,5	15	10	35
Net weight approx. [kg]	1.1	2	4.5	6	8	9.5	12.4	11.5	27.5
Filling weight approx. [kg]*	2	3	7	12	13.5	15	16.5	18	40
Matching drive	VZ15	RF20	RF30	RF40	RF40	RF40	RF40	RF40	RF52

* Filling volumes and weights depend on the parts. For the part calculation, calculate max. 40- 50% of the specified sorting bowl volume.

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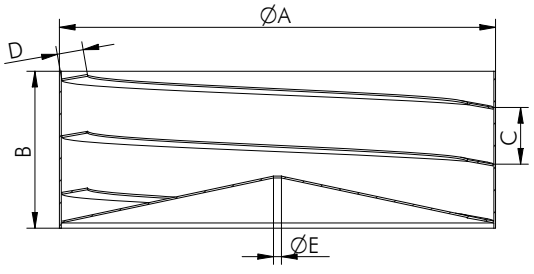
Technical data, top part

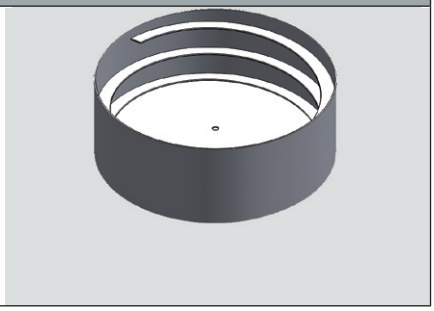
Bowl feeder - top part, step-shaped										
Designation, top part (steel)	**SS200**	**SS290**	**SS390**	**SS500**	**SS520**	**SS650**	**SS750**	**SS800**	**SS900**	
Designation, top part (stainless steel)	**ES200**	**ES290**	**ES390**	**ES500**	**ES520**	**ES650**	**ES750**	**ES800**	**ES900**	
Max. filling volume approx. [dm³]*	1.2	1.8	2.5	6	8	12	18	25	25	
Net weight approx. [kg]	1.5	3	4.5	10	13	15	18	20	22	
Filling weight approx. [kg]*	3	7	12	15	16	32	37	40	45	
Matching drive	VZ15	RF20	RF30	RF40	RF40	RF40	RF52	RF52	SRC630	
Bowl feeder - top part, conical										
Designation, top part (steel)	**SK300**	**SK400**	**SK450**	**SK600**	**SK650**	**SK700**	**SK900**	**SK950**		
Designation, top part (stainless steel)	**EK300**	**EK400**	**EK450**	**EK600**	**EK650**	**EK700**	**EK900**	**EK950**		
Max. filling volume approx. [dm³]**	1.8	2.5	4	10	12	16	25	25		
Net weight approx. [kg]	2.9	5.8	6.5	14.6	15.8	17	27	31		
Filling weight approx. [kg]**	7	12	15	25	30	35	45	47		
Matching drive	RF20	RF30	RF30	RF40	RF40	RF40	RF52	RF52		

Dimensions of top part

Bowl feeder - top part, cylindrical									
Designation, top part (steel)	**SZ150**	**SZ200**	**SZ300**	**SZ400**	**SZ450**	**SZ500**	**SZ550**	**SZ600**	**SZ800**
Designation, top part (stainless steel)	**EZ150**	**EZ200**	**EZ300**	**EZ400**	**EZ450**	**EZ500**	**EZ550**	**EZ600**	**EZ800**
Ø A [mm]	158	200	300	400	450	500	550	600	800
B [mm]	70	100	120	150	180	180	200	120	300
C [mm]	20	28	40	52	60	65	70	70	120
D [mm]	10	14	20	24	30	30	40	31	100
Ø E [mm] (bore)	9	9	11	17	17	17	17	17	20

Technical drawing, bowl feeder, top part, cylindrical





* Filling volumes and weights depend on the parts. For the part calculation, calculate max. 40- 50% of the specified sorting bowl volume.
** Filling volumes and weights depend on the parts. For the part calculation, calculate max. 40% of the specified sorting bowl volume.

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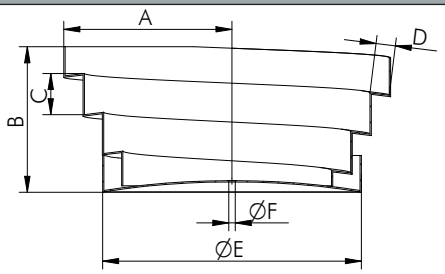
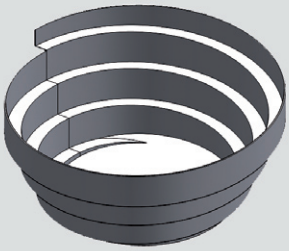
Bowl feeder

Dimensions of top part

Bowl feeder - top part, step-shaped										
Designation, top part (steel)	**SS200**	**SS290**	**SS390**	**SS500**	**SS520**	**SS650**	**SS750**	**SS800**	**SS900**	
Designation, top part (stainless steel)	**ES200**	**ES290**	**ES390**	**ES500**	**ES520**	**ES650**	**ES750**	**ES800**	**ES900**	
A [mm]	100	145	195	255	260	325	375	400	450	
B [mm]	approx. 90	approx. 140	approx. 160	approx. 170	approx. 180	approx. 250	approx. 250	approx. 240	approx. 240	
C [mm]	25	37	50	55	65	80	100	100	120	
D [mm]	10	23	26	35	30	50	80	60	85	
Ø E [mm]	150	200	298	401	401	401	522	640	650	
Ø F [mm]	9	9	11	11	17	17	11	-	-	-

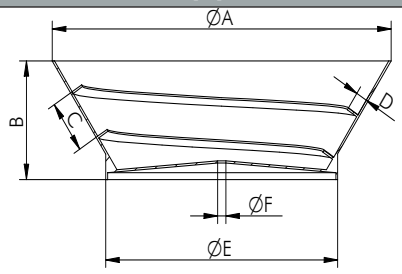
Technical drawing, bowl feeder, top part, step-shaped

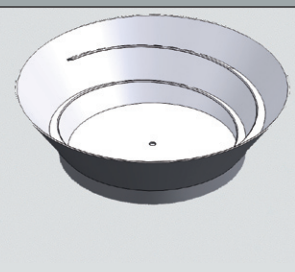




Bowl feeder - top part, conical								
Designation, top part (steel)	**SK300**	**SK400**	**SK450**	**SK600**	**SK650**	**SK700**	**SK900**	**SK950**
Designation, top part (stainless steel)	**EK300**	**EK400**	**EK450**	**EK600**	**EK650**	**EK700**	**EK900**	**EK950**
Ø A [mm]	300	400	450	600	650	700	900	950
B [mm]	100	125	140	200	200	200	300	300
C [mm]	35	50	50	75	75	80	130	130
D [mm]	12	10	15	25	25	20	30	30
Ø E [mm]	200	240	308	410	410	410	600	660
Ø F	9	11	11	17	17	17	-	-

Technical drawing, bowl feeder, top part, conical





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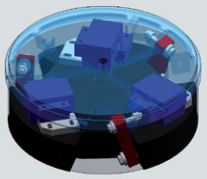
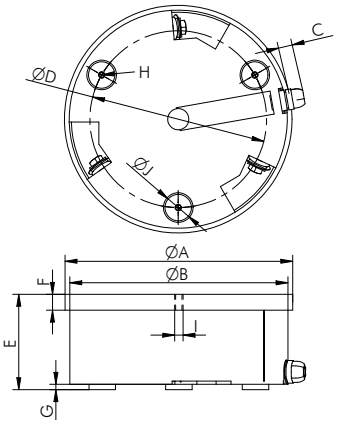
Technical data - Drive

Device type	RF20	RF30	RF40	RF52
Net weight [kg]	10	25	75	145
Mains frequency [Hz]	50	50	50	25
Current consumption (max.) [A]	0.5	1.2	6	5.3
Voltage [V]	230	230	230	230
Protection class	IP 42	IP 42	IP 42	IP 42



Drive dimensions

Device type	RF20	RF30	RF40	RF52
Ø A [mm]	215	308	418	535
Ø B [mm]	206	288	406	520
C [mm]	12	12	12	12
Ø D [mm]	167	230	320	370
E [mm]	90	120	150	195
F [mm]	15	18	38	38
G [mm]	5	5	5	5
H [mm]	3 x M6	3 x M6	3 x M8	3 x M10
I [mm]	M8	M10	M16	M10
Ø J (3x120°) [mm]	25	25	40	70



Accessories

Designation	Description	Article no.
Noise protection SM	Noise protection cover of type SM, different sizes available	–
Control unit FAR-1	230 V/ 50 Hz, for linear and bowl feeders, phase-controllable	2-008185
Control unit FAR-S-1	230 V/ 50 Hz, for linear and bowl feeders, phase-controllable, with input for a signal for accumulation shut-down	2-008186
Control unit FARR-S-1	230 V/ 50 Hz, combination of FAR-1 and FAR-S-1	2-008187
Control unit FUR-1	230 V/ 50 Hz, purpose-built frequency converter for vibratory feeders	2-007872
Control unit FUR-S-1	230 V/ 50 Hz, purpose-built frequency converter for vibratory feeders, with input for a signal for accumulation shut-down	2-007897
Pendulum switch PS1	automatic filling level control of bulk material in the sorting device	2-002099
Floor stand SBF	3 radially arranged positioning feet (Ø 500 mm), fixed adapted height	1-000630
Floor stand SBV	With fine-setting screw for height and variable adjustment range	2-000321
Coatings	Habasit, PU or brush coating	–

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