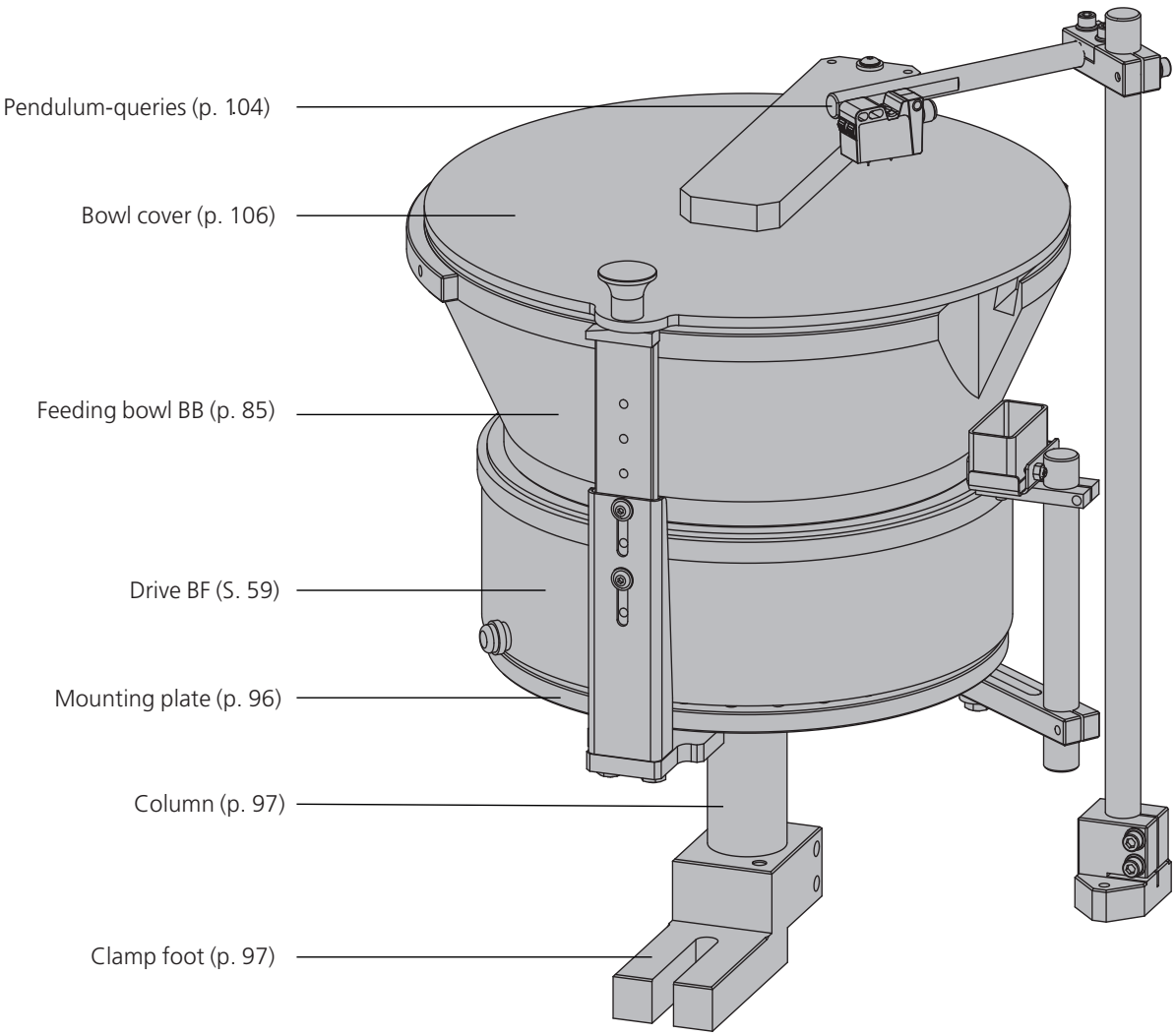
Drives

BF10 - BF15

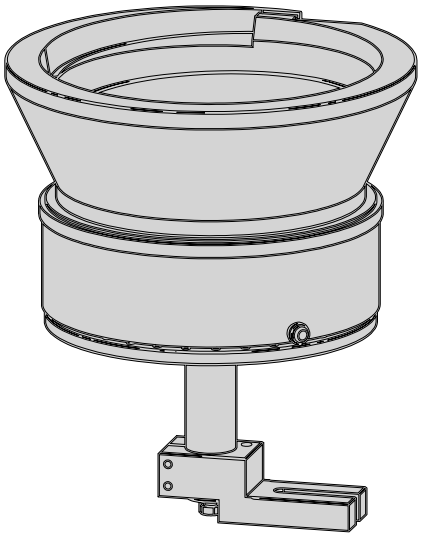


- Vibration compensation in the drive unit
- Minimal gaps at the transitions
- Closed design

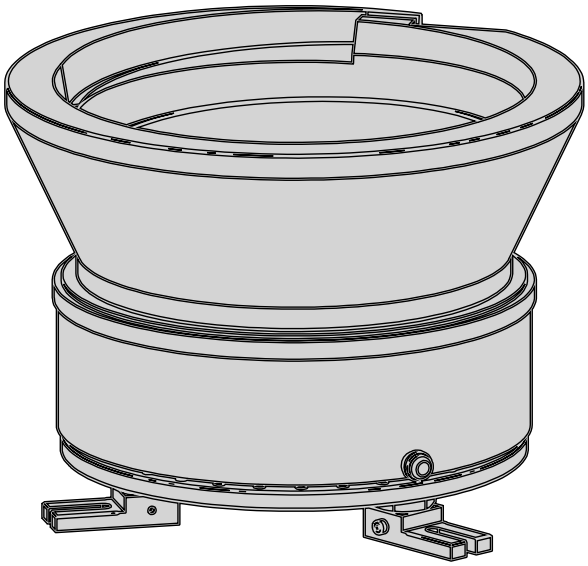
Overview


Pendulum-queries (p. 104)
Bowl cover (p. 106)
Feeding bowl BB (p. 85)
Drive BF (S. 59)
Mounting plate (p. 96)
Column (p. 97)
Clamp foot (p. 97)

For the attachment of the BF 2 variants are possible:



Construction with fixing plate, column and mounting attachment

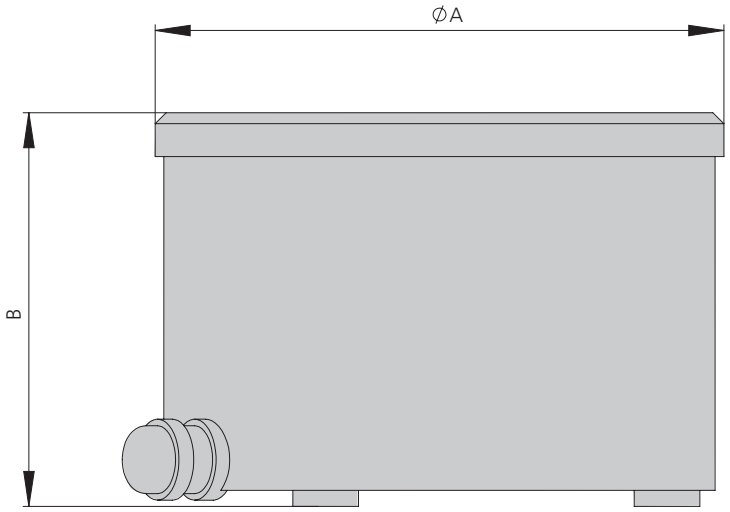


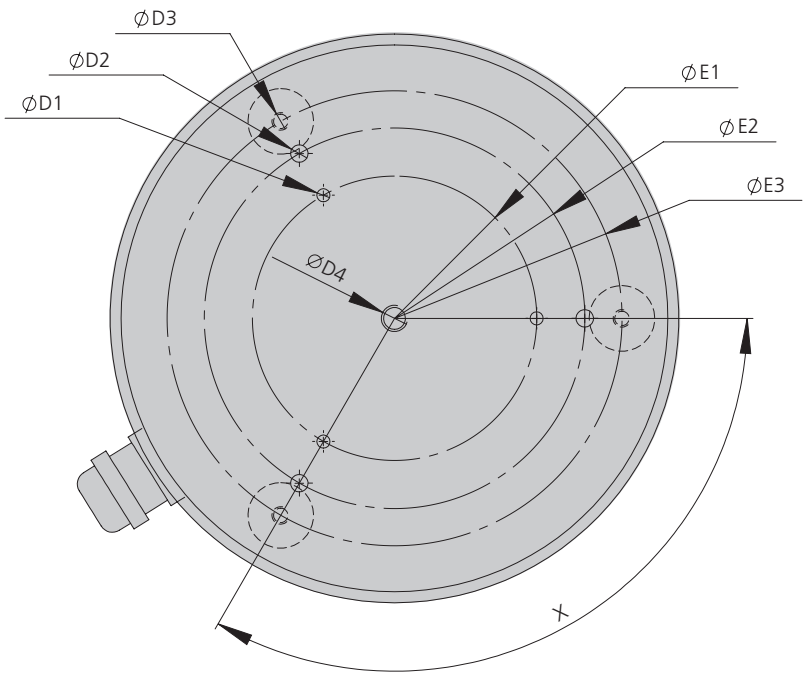
Construction with leveling feet

Dimensions and dimension drawings

BF10 - BF15

Type	BF10	BF15
A	104 mm	130 mm
B	64 mm	90 mm
D1	3H7	3H7
D2	3H7	4H7
D3	3 x M4	3 x M4
D4	M6	M6
E1	51 mm	65 mm
E2	65 mm	87 mm
E3	70 mm	104 mm
X	120 °	120 °





Technical data



BF10 - BF15

BF10 - BF15	
Operating temperature	10 - 45 °C

Type	BF10	BF10	BF10	BF10
Order number	**50042183**	**50028522**	**50042179**	**50042180**
Mechanical vibration frequency	100 Hz	100 Hz	120 Hz	120 Hz
Mains connection (mains voltage/mains frequency)	230 V/50 Hz	230 V/50 Hz	115 V/60 Hz	115 V/60 Hz
Max. power consumption	11 VA	11 VA	11 VA	11 VA
Net weight	2.2 kg	2.2 kg	2.2 kg	2.2 kg
Admissible bowl weight ±30 %	0.16 kg	0.16 kg	0.16 kg	0.16 kg
Admissible moment of inertia ±10 %	0.3 kgdm²	0.3 kgdm²	0.3 kgdm²	0.3 kgdm²
Angle of the gradient of the leaf springs	12 °	12 °	12 °	12 °
Delivery direction	right	left	right	left
Protection type	IP54	IP54	IP54	IP54

Type	BF15	BF15	BF15	BF15
Order number	**50042190**	**50029786**	**50042186**	**50042187**
Mechanical vibration frequency	100 Hz	100 Hz	120 Hz	120 Hz
Mains connection (mains voltage/mains frequency)	230 V/50 Hz	230 V/50 Hz	115 V/60 Hz	115 V/60 Hz
Max. power consumption	27.5 VA	27.5 VA	27.5 VA	27.5 VA
Net weight	4.7 kg	4.7 kg	4.7 kg	4.7 kg
Admissible bowl weight ±30 %	0.55 kg	0.55 kg	0.55 kg	0.55 kg
Admissible moment of inertia ±10 %	0.12 kgdm²	0.12 kgdm²	0.12 kgdm²	0.12 kgdm²
Angle of the gradient of the leaf springs	12 °	12 °	12 °	12 °
Delivery direction	right	left	right	left
Protection type	IP54	IP54	IP54	IP54

Inlcuded in delivery

- 6x Leaf spring BF
- 12x Spacer BF

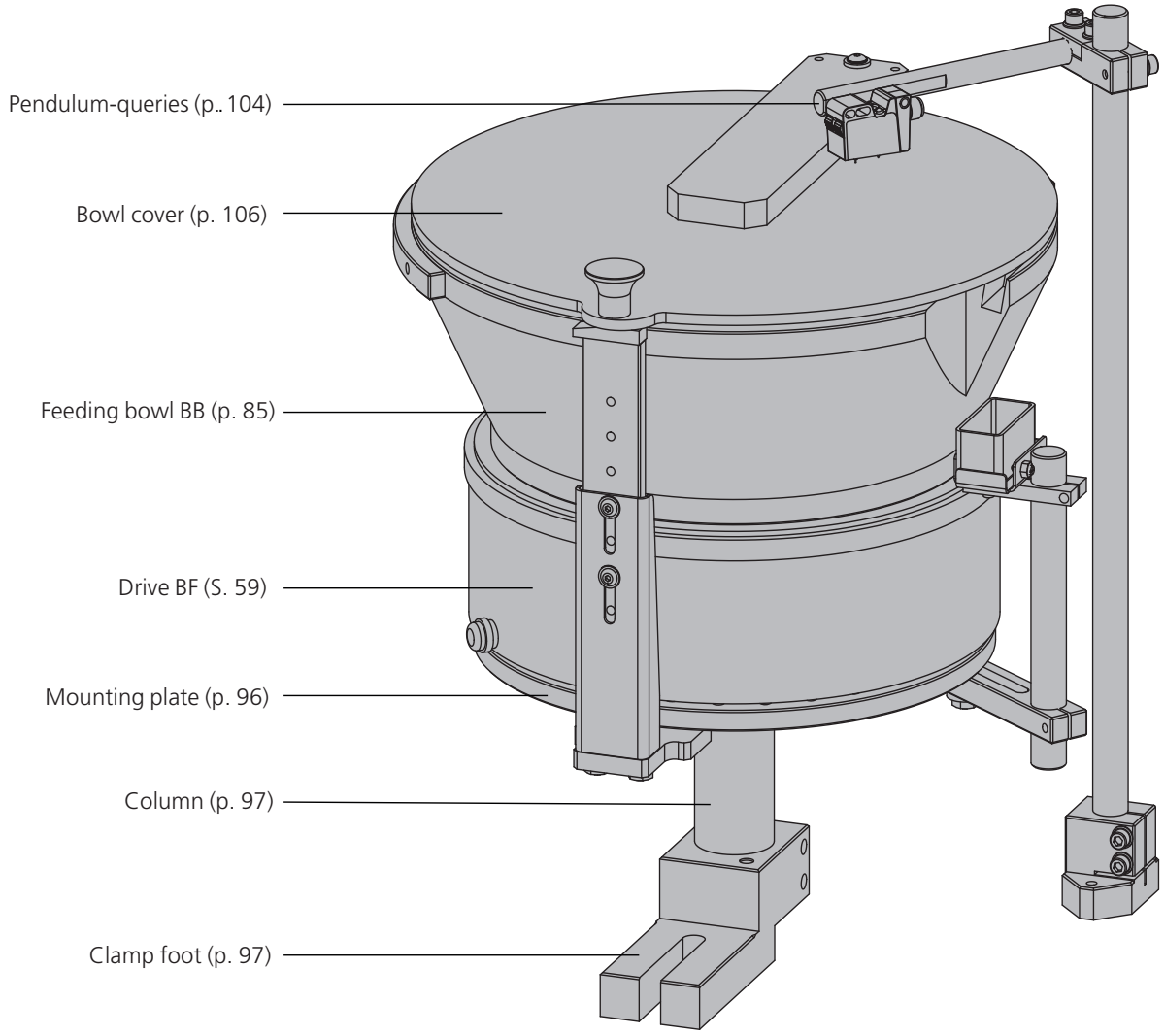
Drives

BF20 - BF50

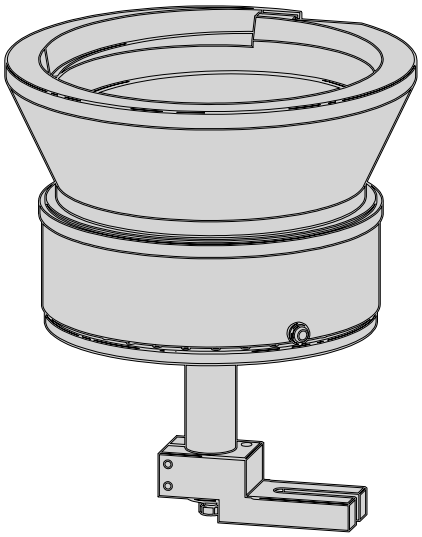


- Vibration compensation in the drive unit
- Minimal gaps at the transitions
- Closed design

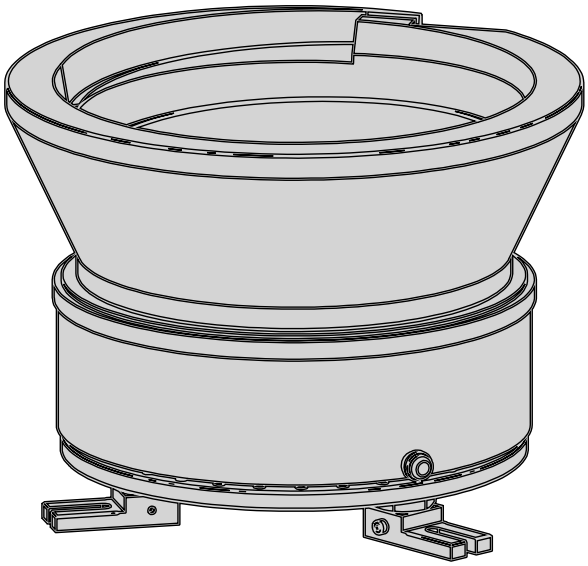
Overview


Pendulum-queries (p.. 104)
Bowl cover (p. 106)
Feeding bowl BB (p. 85)
Drive BF (S. 59)
Mounting plate (p. 96)
Column (p. 97)
Clamp foot (p. 97)

For the attachment of the BF 2 variants are possible:



Construction with fixing plate, column and mounting attachment

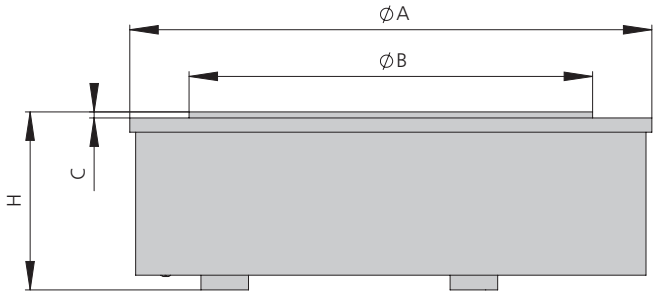


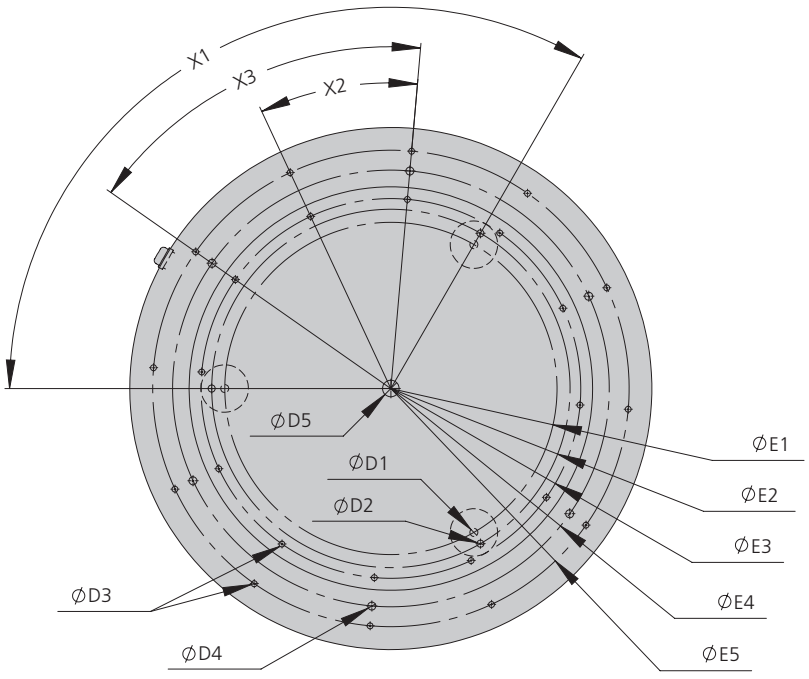
Construction with leveling feet

Dimensions and dimension drawings

BF20 - BF50

Type	BF20	BF25	BF30	BF35	BF40	BF50
A	180 mm	224 mm	265 mm	305 mm	350 mm	440 mm
B	146 mm	194 mm	194 mm	294 mm	294 mm	340 mm
C	2 mm	2 mm	2.5 mm	3 mm	3 mm	5 mm
D1	3 x M6	3 x M6	3 x M8	3 x M8	3 x M8	3 x M8
D2	4H7	4H7	5H7	5H7	5H7	6H7
D3	---	---	M6	M6	M6	M6
D4	---	5H7	5H7	5H7	---	M6
D5	M8	M10	M10	M10	M12	M16
E1	120 mm	120 mm	195 mm	195 mm	195 mm	280 mm
E2	87 mm	140 mm	140 mm	162 mm	214 mm	302 mm
E3	---	---	---	---	---	320 mm
E4	---	162 mm	162 mm	214 mm	---	---
E5	---	---	186 mm	186 mm	320 mm	400 mm
H	90 mm	93 mm	100 mm	103 mm	112 mm	150 mm
X1	120 °	120 °	120 °	120 °	120 °	120 °
X2	---	---	90 °	90 °	30 °	30 °
X3	---	---	---	---	---	30 °





Technical data



BF20 - BF25	
Operating temperature	10 - 45 °C

Type	BF20	BF20	BF20	BF20	BF20	BF20	BF20	BF20
Order number	**50028117**	**50028118**	**50042197**	**50032808**	**50042193**	**50042194**	**50042195**	**50042196**
Mechanical vibration frequency	100 Hz	100 Hz	100 Hz	100 Hz	120 Hz	120 Hz	120 Hz	120 Hz
Mains connection (mains voltage/ mains frequency)	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz
Max. power consumption	69 VA	69 VA	69 VA	69 VA	69 VA	69 VA	69 VA	69 VA
Net weight	6.9 kg	6.9 kg	6.8 kg	6.8 kg	7 kg	7 kg	6.9 kg	6.9 kg
Admissible bowl weight ±30 %	2 kg	2 kg	2 kg	2 kg	2 kg	2 kg	2 kg	2 kg
Admissible moment of inertia ±10 %	1 kgdm²	1 kgdm²	1 kgdm²	1 kgdm²	1 kgdm²	1 kgdm²	1 kgdm²	1 kgdm²
Angle of the gradient of the leaf springs	12 °	12 °	18 °	18 °	12 °	12 °	18 °	18 °
Delivery direction	right	left	right	left	right	left	right	left
Protection type	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

Type	BF25	BF25	BF25	BF25	BF25	BF25	BF25	BF25
Order number	**50028101**	**50028100**	**50030815**	**50030814**	**50042198**	**50042199**	**50042200**	**50042201**
Mechanical vibration frequency	100 Hz	100 Hz	100 Hz	100 Hz	120 Hz	120 Hz	120 Hz	120 Hz
Mains connection (mains voltage/ mains frequency)	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz
Max. power consumption	69 VA	69 VA	69 VA	69 VA	69 VA	69 VA	69 VA	69 VA
Net weight	10.3 kg	10.3 kg	10.2 kg	10.2 kg	10.6 kg	10.6 kg	10.4 kg	10.4 kg
Admissible bowl weight ±30 %	3 kg	3 kg	3 kg	3 kg	3 kg	3 kg	3 kg	3 kg
Admissible moment of inertia ±10 %	2.2 kgdm²	2.2 kgdm²	2.2 kgdm²	2.2 kgdm²	2.2 kgdm²	2.2 kgdm²	2.2 kgdm²	2.2 kgdm²
Angle of the gradient of the leaf springs	12 °	12 °	18 °	18 °	12 °	12 °	18 °	18 °
Delivery direction	right	left	right	left	right	left	right	left
Protection type	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

Inlcuded in delivery

- 6x Leaf spring BF
- 12x Spacer BF

Technical data

BF30 - BF35



BF30 - BF35	
Operating temperature	10 - 45 °C

Type	BF30	BF30	BF30	BF30	BF30	BF30	BF30	BF30
Order number	**50013729**	**50013728**	**50027880**	**50027872**	**50042202**	**50042203**	**50042204**	**50042205**
Mechanical vibration frequency	100 Hz	100 Hz	100 Hz	100 Hz	120 Hz	120 Hz	120 Hz	120 Hz
Mains connection (mains voltage/ mains frequency)	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz
Max. power consumption	135 VA	135 VA	135 VA	135 VA	135 VA	135 VA	135 VA	135 VA
Net weight	14.4 kg	14.4 kg	14.3 kg	14.3 kg	14.8 kg	14.8 kg	14.6 kg	14.6 kg
Admissible bowl weight ±30 %	4 kg	4 kg	4 kg	4 kg	4 kg	4 kg	4 kg	4 kg
Admissible moment of inertia ±10 %	4.5 kgdm²	4.5 kgdm²	4.5 kgdm²	4.5 kgdm²	4.5 kgdm²	4.5 kgdm²	4.5 kgdm²	4.5 kgdm²
Angle of the gradient of the leaf springs	12 °	12 °	18 °	18 °	12 °	12 °	18 °	18 °
Delivery direction	right	left	right	left	right	left	right	left
Protection type	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

Type	BF35	BF35	BF35	BF35	BF35	BF35	BF35	BF35
Order number	**50017360**	**50017358**	**50029657**	**50029648**	**50042206**	**50042207**	**50042208**	**50042209**
Mechanical vibration frequency	100 Hz	100 Hz	100 Hz	100 Hz	120 Hz	120 Hz	120 Hz	120 Hz
Mains connection (mains voltage/ mains frequency)	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz
Max. power consumption	135 VA	135 VA	135 VA	135 VA	135 VA	135 VA	135 VA	135 VA
Net weight	21.1 kg	21.1 kg	21 kg	21 kg	21.5 kg	21.5 kg	21.3 kg	21.3 kg
Admissible bowl weight ±30 %	6 kg	6 kg	6 kg	6 kg	6 kg	6 kg	6 kg	6 kg
Admissible moment of inertia ±10 %	8.8 kgdm²	8.8 kgdm²	8.8 kgdm²	8.8 kgdm²	8.8 kgdm²	8.8 kgdm²	8.8 kgdm²	8.8 kgdm²
Angle of the gradient of the leaf springs	12 °	12 °	18 °	18 °	12 °	12 °	18 °	18 °
Delivery direction	right	left	right	left	right	left	right	left
Protection type	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

Inlcuded in delivery

- 6x Leaf spring BF
- 12x Spacer BF

Technical data



BF40 - BF50	
Operating temperature	10 - 45 °C

Type	BF40	BF40	BF40	BF40	BF40	BF40	BF40	BF40
Order number	**50026172**	**50026171**	**50030826**	**50030825**	**50042210**	**50042211**	**50042212**	**50042213**
Mechanical vibration frequency	100 Hz	100 Hz	100 Hz	100 Hz	120 Hz	120 Hz	120 Hz	120 Hz
Mains connection (mains voltage/ mains frequency)	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz
Max. power consumption	180 VA	180 VA	180 VA	180 VA	180 VA	180 VA	180 VA	180 VA
Net weight	30.3 kg	30.3 kg	30.3 kg	30.3 kg	31.1 kg	31.1 kg	30.9 kg	30.9 kg
Admissible bowl weight ±30 %	9 kg	9 kg	9 kg	9 kg	9 kg	9 kg	9 kg	9 kg
Admissible moment of inertia ±10 %	17 kgdm²	17 kgdm²	17 kgdm²	17 kgdm²	17 kgdm²	17 kgdm²	17 kgdm²	17 kgdm²
Angle of the gradient of the leaf springs	12 °	12 °	18 °	18 °	12 °	12 °	18 °	18 °
Delivery direction	right	left	right	left	right	left	right	left
Protection type	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

Type	BF50	BF50	BF50	BF50	BF50	BF50	BF50	BF50
Order number	**50028132**	**50028133**	**50031621**	**50031622**	**50042214**	**50042215**	**50042216**	**50042217**
Mechanical vibration frequency	100 Hz	100 Hz	100 Hz	100 Hz	120 Hz	120 Hz	120 Hz	120 Hz
Mains connection (mains voltage/ mains frequency)	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz	115 V/ 60 Hz
Max. power consumption	950 VA	950 VA	950 VA	950 VA	950 VA	950 VA	950 VA	950 VA
Net weight	63.3 kg	63.3 kg	62.4 kg	62.4 kg	65.4 kg	65.4 kg	64.4 kg	64.4 kg
Admissible bowl weight ±30 %	20 kg	20 kg	20 kg	20 kg	20 kg	20 kg	20 kg	20 kg
Admissible moment of inertia ±10 %	65 kgdm²	65 kgdm²	65 kgdm²	65 kgdm²	65 kgdm²	65 kgdm²	65 kgdm²	65 kgdm²
Angle of the gradient of the leaf springs	12 °	12 °	18 °	18 °	12 °	12 °	18 °	18 °
Delivery direction	right	left	left	right	right	left	right	left
Protection type	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

Inlcuded in delivery

- 6x Leaf spring BF
- 12x Spacer BF