Operating Instructions
Linear Conveyor „HFA ... B” and “HFA ... SB / SF“

fimotec – fischer
Montagetechnik

HFA 0,4/200 B
HFA 0,6/250 B
HFA 0,6/300 B
HFA 1,5/400 B
HFA 2,5/500 B
HFA 0,4/200 SB
HFA 0,6/250 SB
HFA 0,6/300 SB
HFA 1,5/400 SF
HFA 2,5/500 SB

FB.-No.: _____
Customer: _____
Date: _____

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50 Date 07 / 2025

Contents

	Page
1. Safety Instructions	
1.1 General	1
1.2 Danger from the machine	2
1.3 Noise emission	2
1.4 Authorized applications	2
2. Transport and Storage	
2.1 Transport	3
2.2 Storage	3
3. Installation and Starting up	
3.1 Installation	4
3.2 Starting up	4
4. Technical Data	
5.1 Linear Conveyor	5
5.2 Accessories	5
5. Description of Machine	
5.1 Construction	6
5.2 Side view HFA … SB / SF	6
5.3 Side view HFA … B	7
5.4 Operating principle	7
6. Maintenance	8
7. Adjustments	
7.1 Conveying behaviour, conveying speed	9
7.2 Inserting and removing leaf springs	10
7.3 Adjusting the magnet gap	10
7.4 Operation on a frequency control unit	11
8. Rules for the Linear Conveyor Configuration	12
9. Malfunctioning	13
10. Accessories	
10.1 Mechanical accessories	14
10.2 Electronic accessories	14
11. Spare Parts	15
Declaration of incorporation	16

1. Safety Instructions

1.1 General

This section contains information necessary for the correct use of the products described. It is directed at technically qualified personnel.

Qualified personnel are persons who on account of their education, experience and training as well as their knowledge of appropriate norms, regulations, rules concerning accident prevention and conditions prevailing at the place of work who have been authorized by those responsible for the safety of the equipment to carry out the particular operation required and thereby are able to recognize and avoid possible dangers (definition from IEC 364 of skilled personnel).

Danger Warnings
The following notes relate not only to the operator´s personal safety but also to the protection of the products described and the equipment involved.

ATTENTION!
Failure to observe can lead to personal injury or cause damage to the machine.

WARNING!
High voltage.
Ignoring this warning can result in death or severe bodily injury.

NOTE:
Here are given hints and important informations to handle the device.

DANGER:
For persons with active and passive body assistive technologies caused by magnetic fields.

Disconnect the power supply before installation or dismantling.
Observe the valid accident prevention and safety regulations for your specific application.
Before commissioning, check whether the nominal voltage of the device agrees with the local mains voltage.
Emergency Stop mechanisms must remain active in all operating modes. Unlocking the Emergency Stop mechanism must not result in uncontrolled reactivation.
Existing protective equipment must not be removed.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

1. Safety Instructions

1.2 Danger from the machine

Mechanical:

No danger is to be expected from a machine that is in its original condition.

Electrical:

No danger is to be expected from a machine that is used in accordance with operating instructions, that is in its original condition and the electrical equipment of which is technically in perfect order.
Contact with liquids may cause an electrical shock.

➔ Ensure that the ground connections are in good order.

➔ Never operate the device without side plates.

1.3 Noise emission

The level of noise generated by the HFA depends on the articles to be transported and the construction of the conveyor rail. The noise level according to the EU directive „Machines“ can therefore only be ascertained on site under actual working conditions.

If the sound intensity level exceeds the authorized noise level, suitable noise protection measures must be taken.

1.4 Authorized applications

The linear conveyor may only be used in a dry environment, as it is not protected against being splashed with water.
It must not be used in explosive and wet areas!
The use of the HFA is to drive linear conveyor rails. The purpose of these is to transport and feed in the correct position mass-produced parts, as well as dosed feeding of dry bulk material.
Any other application of the HFA which varies from these uses are not authorized.

ATTENTION!
Improper use can lead to damage to the unit.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

2. Transport and Storage

2.1 Transport

The linear conveyor units HFA can be moved manually on account of their light weight.
The weights of the different types can be found in the technical data (chapter 4).

ATTENTION!
The HFA must not be lifted or transported by the oscillator.

2.2 Storage

If the linear conveyor is stored for a long period of time it must be protected from damp and aggressive agents.
Excessive variations in temperature should be avoided.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

3. Installation and Starting up

3.1 Installation

The linear conveyor must be located on a sufficiently stabile base. It must not pass on vibrations coming from the linear conveyor.
The HFA … SB / SF model machines are fitted during manufacture with rubber-metal buffers. These have an internal thread on the bottom by which the linear conveyor can be securely screwed to its foundation.
The HFA...B model machines are provided with clamping plates which have four boreholes for screwing the linear conveyor with its foundation.
Detail of the boreholes for the various models are given in the technical data (chapter 4).

NOTE:
In operation the linear conveyor and any elements connected to it must not come into contact with other machines.

3.2 Starting up

Mount the special linear conveyor rails to the HFA. When screwing on use a spacing plate which is available as an accessory. This operation does not apply where the HFA is a part of ready-built plant.

NOTE:
- ensure that the linear conveyor rail is securely screwed to the unit.
- check to ensure that the machine is standing freely.
- ensure that the linear conveyor power supply cable is in good condition.
- compare the details of the available voltage supply and its frequency with the HFA technical specification.

Connection to the electric mains is effected exclusively via a suitable control device. The connecting loads may be found in the technical data (chapter 4).

A connection to the mains supply may only be made by a qualified electrician.

The behaviour of the conveyor must be checked after the power supply has been connected.

- complete HFA units are supplied by the manufacturer pre-adjusted to their optimal settings. The settings of the associated control units can be taken from the supplied test certificates.

- HFA supplied without linear conveyor rails are set during manufacture with a certain loading weight (linear conveyor rail, spacing plate and bulk material). These loading weights are given in the technical data (chapter 4).
  If the loading weight differs from the given values, the result will be a reduced conveying capacity.
  How the machine is to be re-set, is described in chapter 7.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

4. Technical Data

4.1 Linear conveyor

model		HFA 0,4/200 B	HFA 0,6/250 B	HFA 0,6/300 B	HFA 1,5/400 B	HFA 2,5/500 B
dimensions (l x w x h)	[mm]	126 x 38 x 40	151 x 55 x 56	181 x 55 x 56	215 x 80 x 67	278 x 90 x 93
fixing measures borehole-Ø boring measure	 [mm] [mm]	 4,5 (4x) 106 x 24	 5,5 (4x) 131 x 35	 5,5 (4x) 161 x 35	 6,0 (4x) 195 x 50	 8,0 (4x) 258 x 60
number of springs (standard) front rear		 2 2	 1 2	 1 2	 1 2	 2 2
spring size (standard)	[mm]	0,6	1,0	1,0	1,0	2,0
weight of oscill. units (max.)	[kg]	0,4	0,6	0,6	1,5	2,5
rail length (max.)	[mm]	200	250	300	400	500
nominal voltage *	[V]	230	230	230	230	230
nominal frequency *	[Hz]	50	50	50	50	50
nominal oscillation frequency	[1/min]	6000	6000	6000	6000	6000
current consumption	[A]	0,04	0,14	0,14	0,43	0,84
air gap (max.)	[mm]	1	2	2	2	2

model		HFA 0,4/200 SB	HFA 0,6/250 SB	HFA 0,6/300 SB	HFA 1,5/400 SF	HFA 2,5/500 SB
dimensions (l x w x h)	[mm]	132 x 38 x 37	147 x 55 x 56	187 x 55 x 56	238 x 78 x 67	333 x 94x 93
fixing measures borehole-Ø boring measure	 [mm]	 M3 (4x) 120 x 24	 M4 (4x) 130 x 35	 M4 (4x) 170 x 35	 M5 (4x) 200 x 50	 M6 (4x) 300 x 60
number of springs (standard) front rear		 2 2	 1 2	 1 2	 1 2	 2 2
spring size (standard)	[mm]	0,6	1,0	1,0	1,0	2,0
weight of oscill. units (max.)	[kg]	0,4	0,6	0,6	1,5	2,5
rail length (max.)	[mm]	200	250	300	400	500
nominal voltage *	[V]	230	230	230	230	230
nominal frequency *	[Hz]	50	50	50	50	50
nominal oscillation frequency	[1/min]	6000	6000	6000	6000	6000
current consumption	[A]	0,04	0,14	0,14	0,44	0,84
air gap (max.)	[mm]	1	2	2	0,8	2

* if required the units are also available with 115 V and 60 Hz

4.2 Accessories

model	mounting plate AP		spacing plate ZP	
	designation	dimensions l x w x h [mm]	designation	dimensions l x w x h [mm]
HFA 0,4/200 B	-	-	ZP-200 / ZP-200-A	70 x 34 x 5 / 70 x 34 x 8
HFA 0,6/250 B	-	-	ZP-250 / ZP-250-A	85 x 50 x 5 / 85 x 50 x 8
HFA 0,6/300 B	-	-	ZP-300 / ZP-300-A	106 x 50 x 5 / 106 x 50 x 8
HFA 1,5/400 B	-	-	ZP-400 / ZP-400-A	136 x 70 x 6 / 136 x 70 x 8
HFA 2,5/500 B	-	-	ZP-500 / ZP-500-A	190 x 85 x 6 / 190 x 85 x 8
HFA 0,4/200 SB	AP-200	130 x 40 x 15	ZP-200 / ZP-200-A	70 x 34 x 5 / 70 x 34 x 8
HFA 0,6/250 SB	AP-250	145 x 60 x 20	ZP-250 / ZP-250-A	85 x 50 x 5 / 85 x 50 x 8
HFA 0,6/300 SB	AP-300	185 x 60 x 20	ZP-300 / ZP-300-A	106 x 50 x 5 / 106 x 50 x 8
HFA 1,5/400 SF	AP-400	220 x 80 x 20	ZP-400 / ZP-400-A	136 x 70 x 6 / 136 x 70 x 8
HFA 2,5/500 SB	AP-500	325 x 100 x 20	ZP-500 / ZP-500-A	190 x 85 x 6 / 190 x 85 x 8

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

5. Description of Machine

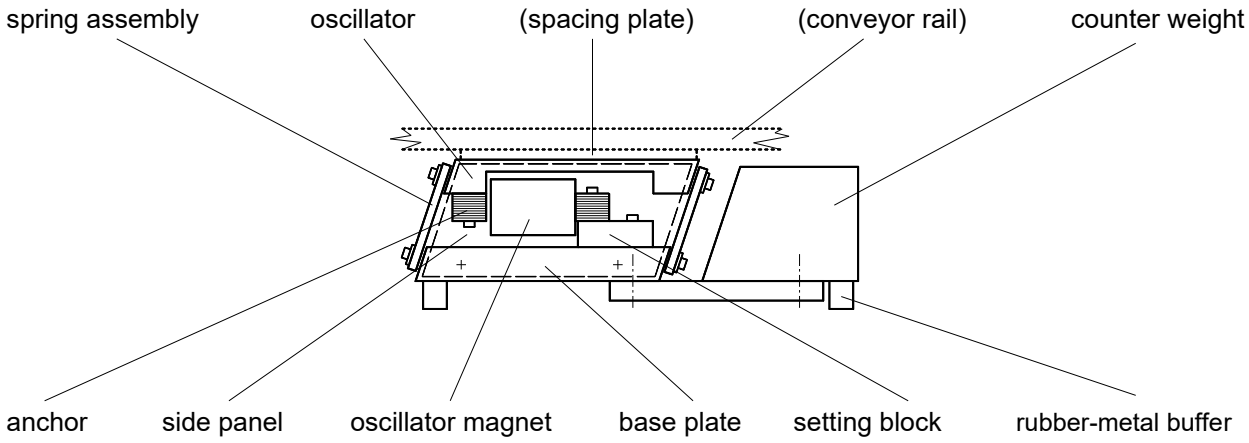
5.1 Construction

The HFA linear conveyor consists of the following components:

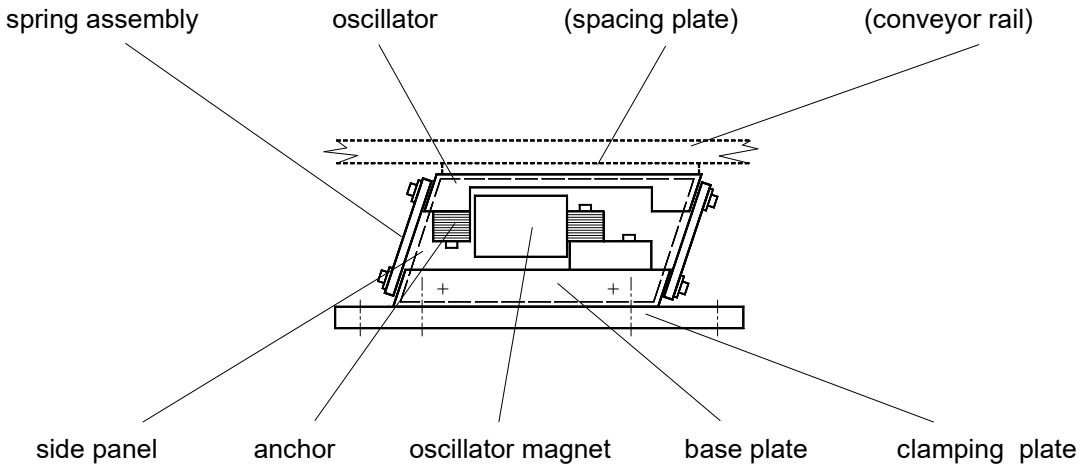
- base plate
- counter weight (only HFA...SB / SF)
- oscillator
- oscillator magnet with anchor
- spring assembly
- side panels

(- spacing plate)
(- linear conveyor rail)

5.2 Side view of HFA … SB / SF



5.3 Side view of HFA … B



fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

5. Description of Machine

5.3 Operating principle

The HFA...B respectively HFA...SB / SF linear conveyor employs a two mass oscillator system whereby the oscillator mass (oscillator, linear conveyor rail and bulk material) are connected via the spring assembly to the counter mass (base plates with directly attached elements and counter weights). This spring mass system has a certain natural frequency with which the system after initial activation - depending on the absorption being employed - reverberates for a certain period.
When alternating current passes through the oscillating magnet, it exercises on the active mass which is connected to the anchor, a sinusoidal force. As a result the system is compelled to respond by oscillating, the frequency from which diverges from the natural frequency. This frequency is described as the oscillating frequency.

Through vibrations, the linear conveyor rail which is connected to the oscillator, causes the bulk material being conveyed to make small jumping movements. The direction of the jump is dictated by the spring assembly setting and will be at right angles to the spring assembly plane.

The vibrations and therefore the jumping movements made by the material being sorted will be all the greater, the nearer the natural frequency approaches the oscillating frequency. The strongest vibrations occur at the resonance point where the natural and oscillating frequencies match. Resonance operation is not however worthwhile with linear conveyor units, as on the one hand every change in absorption (eg from uneven bulk material) causes changes to the vibrations, and on the other hand, it would be necessary to set a wide air gap between the oscillating magnet and anchor, in order to prevent them striking. In the latter case constant propulsion from the oscillating magnet would no longer be present, as magnetic attraction decreases in inverse proportion to the square of the air gap. In practice therefore a difference is made between two operating modes:

(a) Divergent operation:
Here the oscillating frequency exceeds the natural frequency.
The result of working in this mode - as with resonance operation - is that the vibrations and therefore the speed of conveyance become dependent on the character of the material being sorted. Additionally, electricity consumption can drastically increase, because the vibration movements and the force created run approximately in opposition of phase, and it can therefore occur that the widest air gap coincides with maximum electric current.

(b) Subcritical operation:
Here the operating frequency is less than the natural frequency.
In this operating mode the vibrations and therefore the speed of conveyance are to a great extent independent of the character of the material being sorted. Also, because the vibration movements and the force created almost run in phase, the narrowest air gap coincides with minimum electric current.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

6. Maintenance

The linear conveyor units HFA…B respectively HFA…SB / SF are in main maintenance free. We do however recommend that a thorough cleaning is carried out if the unit comes into contact with liquids or becomes dirty.

WARNING!
The unit must be disconnected from the power supply before commencing maintenance work.

- First remove the linear conveyor power supply plug from the control unit.

- Remove the side panels.

- Clean the inside of the linear conveyor.

- Remove accumulations of dirt in the air gap between oscillation magnet and anchor.

- Check the air gap and adjust if necessary (see chapter 7.3 and chapter 4).

- Replace the side panels. When doing this ensure that they do not rest against either the mounting plate, the spacing plate or the linear conveyor rail.

- Re-connect the power supply.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

7. Adjustments

WARNING!
The unit must be disconnected from the power supply before commencing adjustments work.

7.1 Conveying behaviour, conveying speed

In order to achieve optimum running, it is necessary to match the linear conveyor to the special conveyor rail and the bulk material to be transported. This setting is made by adding or removing counter weights (conveyor behaviour) or by removing or inserting leaf springs and their accompanying spacer plates (conveyor speed).

In order that the bulk material is evenly carried on the conveyor rail, it is essential that the spring assembly angle of incidence is identical with the angle of the centre of gravity. The centre of gravity angle will be determined by the position of the oscillating mass and the counter mass centres of gravity. If the spring angle and centre of gravity angles match, the direction of the spring force will be lead to the centre of gravity of the oscillating mass, the vertical amplitude being the same for the incoming and outgoing side of the rail.

If the spring angle is greater than the centre of gravity angle, the direction of the spring force will be lead in front of the centre of gravity of the oscillating mass. The vertical amplitude on the incoming side is greater than at the outgoing side and the bulk material jumps in the rail incoming area, and in the outgoing area will be badly transported or not at all. On reducing the counter weight the centre of gravity angle approaches the spring angle and the conveying will become more even.

If the spring angle is less than the centre of gravity angle, the direction of force of the spring will be lead behind the centre of gravity of the oscillating mass. The vertical amplitude on the outgoing side is greater than at the incoming side and the bulk material jumps in the rail outgoing area, and in the incoming area will be badly transported or not at all. On increasing the counter weight the centre of gravity angle approaches the spring angle and the conveying will become more even.

If the loading weight is less than the pre-set values, a spring may be removed in order to increase conveying performance. If the oscillator magnet strikes the anchor when the HFA is switched on, the air gap between the magnet and the anchor must be increased. It should not however be greater than 0.3 mm as stated, as the more the air gap increases, the more the force drops and the more the magnet coil overheats.

If the loading weight is greater than the pre-set values, springs can be inserted and the air gap reduced. In this event, ensure that the magnet does not strike when the HFA is switched on.

NOTE:
- the linear conveyor side panels alter the HFA oscillating behaviour. For this reason it is essential to mount the side panels after every change of spring and then to check conveyancing behaviour and if necessary remove or insert further springs.
- when adjusting the unit ensure that the number of springs per spring assembly is as evenly distributed as possible (maximum difference of 2 springs).

The linear conveyor is optimally set when the carrying capacity remains steady on light pressure being applied to the oscillating mass and a constant conveying speed is reached.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

7. Adjustments

7.2 Inserting and removing the leaf springs

The front leaf springs in the HFA can be changed after loosening the four eg. six fixing screws and removing the two back plates.

On the HFA...SB / SF the rear leaf springs are accessible after removing the connecting plate (between the base plate and the counter weight), and with the HFA...B the clamping plate (below the base plate) must be removed.

NOTE:
- ensure that a spacer plate of impregnated paper is always inserted between the individual springs.
- the screws fixing the springs should be tightened with a torque of 0.6 kp/mm.

7.3 Adjusting the magnet gap

In order to adjust the magnet gap, proceed as follows:

1. Disconnect the mains plug.
2. Remove the side panels at the right side (viewed in the direction of conveyance).
   For type HFA 1,5 / 400 SF please remove both side plates.

Only for types HFA…B and HFA…SB:

3. Loosen the headless setscrew [1].
4. Enlarging the magnetic gap: Turn the threaded pin [2] clockwise.
   Reducing the magnetic gap: Turn the threaded pin [2] counterclockwise.

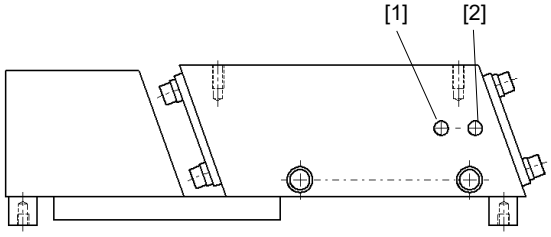
Only for type HFA 1,5/400 SF:

3. Loosen the two hexagon screws [3].
4. Enlarging the magnetic gap: Slide the magnet [4] (seen in the conveying direction) backwards.
   Reducing the magnetic gap: Push the magnet [4] (seen in the conveying direction) forward.

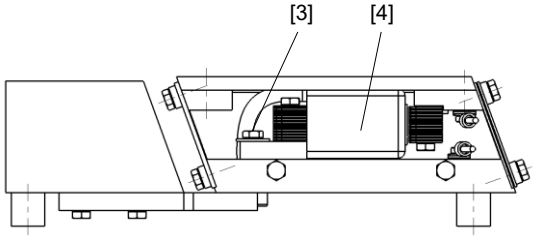
5. Retighten the headless setscrew [1] or the two hexagon screws [3].
6. Check the recommended air gap with a feeler gauge (see chapter 4.1).
7. Replace the side panel.
8. Re-connect the power supply.

NOTE:
Pay attention, that the gap between oscillating magnet and anchor is adjusted parallel.

HFA … B / SB



HFA 1,5/400 SF



fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

7. Adjustments

7.4 Operation on a frequency control unit

To avoid damage to the oscillator magnet when operating the HFA on a frequency control unit, make sure that its output frequency is not set below -10% of the nominal frequency of the oscillator magnet:

- At nominal frequency 50 Hz: Output frequency not below 45 Hz.
- At nominal frequency 25 Hz: Output frequency not below 22.5 Hz.

For the nominal frequencies of the oscillator magnets, please refer to the technical data (chapter 4).

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

8. Rules for the Linear Conveyor Configuration

The conveyor rail should be laid out so that it is as light as possible. It should be ensured that the recommended loading weight (see chapter 4) is not exceeded. Included with loading weight is the conveyor rail, the spacing plate and any bulk material present on the conveyor rail.

The length of the conveyor rail should not exceed the given dimension (see chapter 4).

The projection of the conveyor rail above the linear conveyor mounting plate should be 1/3 (incoming side) to 2/3 (outgoing side).

In order to avoid uncontrolled vibrations at the ends of the rails, long conveyor rails should be adequately stiffened against twisting.

If the conveyor rail consists of several short pieces, these should be gathered on the oscillator and tightly screwed together. On the incoming side flat chamfering eases the changeover of bulk material from one part of the rail to another.

The clearance between the upper edge of the bulk material and the lower edge of the rail cover should be set taking into account the speed of conveyance. The greater the speed, the greater is the clearance. It is best to select the greatest clearance possible, by which the bulk material can be transported without it becoming tangled or wedged.

The conveyor rail cover must be securely screwed down. Loose or folding covers should not be used (reduction in oscillations, increase in noise level).

Tips for mounting the linear conveyor rail:

* Screw the conveyor rail tightly to the linear conveyor.
* Ensure that conveyor rail has a uniform and even base on the oscillator.
* Try to arrange for the conveyor rail to be in the middle of the linear conveyor.
* In order to reach a higher conveyor speed, the linear conveyor can be installed so that it has a slight inclination the direction of conveyance.

NOTE: (applies only to types HFA ... SB / SF):
If the incline is too steep, increased wear of the rubber-metal buffer is to be expected!

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

9. Malfunctioning

WARNING !
The mains plug may only be opened by a qualified electrician.
Before carrying out work on the linear conveyor the plug must be disconnected from the mains.

malfunction	possible cause	remedy
HFA does not start when switched on	mains plug not connected	plug in mains plug
	connecting cable between HFA and control unit not connected	plug in connecting cable
	control unit fuse defective	replace fuse
	control unit mains cable defective	replace mains cable
	connecting cable between HFA and control unit defective	replace connecting cable
	oscillator magnet defective	replace magnet
HFA vibrates weakly	control unit set too weakly	set controller to 80%
	electrical connected wattage incorrect	check wattage
the HFA conveying performance reduces after a long operating period	air gap between magnet and anchor maladjusted	reset air gap correctly
	conveying rail fixing screws loose	tighten screws
	spring assembly fixing screws loose	tighten screws
	broken leaf springs	replace leaf springs
	dirt accumulation between springs	clean with air blast
strongly increasing noise level	foreign body lodged in air gap between magnet and anchor	remove foreign body then check air gap
	oscillator magnet strikes anchor	correct air gap
	leaf spring fixing screws loose	tighten screws

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

10. Accessories

10.1 Mechanical accessories

Because the linear conveyor rail fixing boreholes cannot be so placed that they exactly match the internal thread of the linear conveyor mounting plate, it is advisable to fit **ZP spacing plates**. These enable the conveyor rail mounting to be made in the centre and in an off-set position.

The HFA...SB / SF linear conveyor can be fixed to a **stand** (for example ST-100-50 B or -S) instead of being directly screwed down to a base plate. Matching **AP mounting plates** are available as an adapter between the HFA and the stand.

10.2 Electronic accessories

Connection to the electric mains is effected exclusively via a suitable **control device**.
For this purpose we offer several equipment.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

11. Spare Parts

For the models described in this operating instructions, the following components are available:

* oscillator magnet
* magnet anchor
* leaf spring
* spacer plate (between the individual leaf springs)
* back plate (between leaf spring and fixing screws)
* rubber-metal buffer (only HFA...SB / SF)
* cable plug STAS 20

In order to guarantee a quick and correct processing of your order, please always indicate the type of unit (see type plate) and the year of production of your linear conveyor, the necessary number of pieces and the exact designation of the spare part.

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50

fimotec – fischer
Montagetechnik

declaration of incorporation

The linear conveyor

Description:	HFA 0,4/200 B	HFA 0,4/200 SB
	HFA 0,6/250 B	HFA 0,6/250 SB
	HFA 0,6/300 B	HFA 0,6/300 SB
	HFA 1,5/400 B	HFA 1,5/400 SF
	HFA 2,5/500 B	HFA 2,5/500 SB

Year of construction: starting from 01 / 2017

has been developed, designed and manufactured in accordance with the above mentioned EU guidelines by:

Manufacturer:

fimotec - fischer GmbH & Co. KG
Friedhofstraße 13
78588 Denkingen
Tel.: 0 74 24 / 884-0

Person responsible for documentation:

Vincent Storz

Hereby we declare, that the incomplete machine comply with the requirements of the machine guidelines (2006/42/EG) attachment II 1 B.

The following harmonized norms have been adopted:

- DIN EN ISO 12100: 2011-03 (D)	Safety of machinery- General principles for design - Risk assessment and risk reduction (ISO 12100: 2010)
- EN 60204-1: 2006	Safety of machinery- Electrical equipment of machines - Part 1: General requirements

The specified technical documents of the product according attachment VII part B were compiled.
The manufacturer obligates himself, to offer those special technical documents to state departments on demand.

This machine may not be brought into operation until it has been ensured that the equipment into which it is to be incorporated accords with the conditions of the EU guidelines.

Denkingen	01.07.2025	Ralf Fischer, managing director	R. Fri
Place	Date	Identification of signatory	Signature

fimotec-fischer GmbH & Co. KG
78588 Denkingen / Germany, Friedhofstr. 13
Tel.: +49 (0) 7424/884-0, Fax.: +49 (0) 7424/884-50