INTEC

Operation Manual

Belt Hopper BB

Series

BB 3,5, BB 6, BB 12, BB 25, BB 50, BB 100, BB 200

This operation manual is a part of the technical documentation of the respective belt hopper according to the EC directives for machines.

This operation manual corresponds with MRL Annex. I 1.7.4.

These operation manual is intended for the plant manager, who must pass them on to the staff who is responsible for the installation, connection, operation and maintenance of the machine. He must make sure that the information contained in the operation manual and the enclosed documents has been read and understood. The operation manual must be stored in a well-known place within easy reach; it must be consulted even in case of the slightest doubt.

The manufacturer cannot be held liable for damage to persons, animals, objects or to the machine itself, which are caused by inexpert operation, non-compliance or insufficient compliance with the safety criteria indicated in these operation manual, and/or by modifications to the machine or the use of inadequate spare parts.

If in doubt, the text of the original operating instructions apply.

This operating manual plus the documents mentioned in the Annex must be available to the maintenance staff.

The plant operating company is responsible for ensuring that these documents are always accessible to the staff.

Version 2.0 **Translation of the original operating instructions** **Status 01-2014**

Version	Date	Modification	Modified by
2.0	01/2014	Anpassung MRL 2006/42/EG	TP
.			

These documents and all attachments are not subject to updates!

Index

1.1 Description

Belt Hopper BB
Series: BB 3,5, BB 6, BB 12, BB 25, BB 50, BB 100, BB 200

CE

1.2 Manufacturer & service

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1.3 Use

1.3.1 Use within the intended fields of application

The belt hopper is exclusively used for supply, refilling or conveying of specific product parts. The smallest lateral length of these product parts must be at least 2 mm. Smaller product parts may get under the belt and cause the belt hopper to get damaged or to break down.
Standard belts can only handle dry and clean product parts without sharp edges. For other product parts (oily, wet, hot >70°C) special belts must be used. Product parts should not be dropped from large heights onto the conveyor belt. In case of doubt please consult with the manufacturer. The belt hopper is designed for horizontal transport at maximum load. If you are planning to operate the belt hopper in slightly inclined position, please consult with the manufacturer regarding your specific case and which use values have to be maintained.
Refer to chapter 1.4 "Technical data" for the permitted belt load.

Application areas:
- Parts supply for sorting and feeding equipment,
- Loading of packaging systems,
- Loading of weighing machines and counting equipment,
- Metered parts supply, also at manual workplaces
- Can be used in the food and pharmaceutical sector.

Please refer to chapter 3 “Main components” for information regarding the functional design.

WARNING

After integration of the belt hopper into a complex machine, all requirements of the EU Machinery Directive regarding safety and occupational health must be met.

The use within the intended fields of application also includes:
- Observation of all notes in the operating instructions.
- Compliance with all inspection and maintenance works.
- Observation of the general and special security notes in these operating instructions and the relevant provisions for accident prevention.

Any other use or any use in excess thereof shall be considered not in accordance with the intended use. *INTEC Automationsprodukte für Industrietechnik GmbH* shall not be held liable for damages caused by that.

1.3.2 Improper use

Improper use, which can cause risks for the belt hopper, the operator and third parties, is among others:

Use of the belt hopper contrary to its intended use (chapter 1.3.1), especially with respect to:
Loading of the belt hopper with product parts shaped differently than intended for the belt hopper.
Loading of the belt hopper with parts coated with oil, grease or any other coating.

Deployment of unqualified personnel. See chapter 2 “Safety”.

Operation of the belt hopper contrary to the provisions in the operating manual, regarding: Safety, transport, installation, operation & use, setup, maintenance & repair. It is prohibited to bypass or disable safety and protective equipment. Only skilled, briefed personnel may perform work on belt hopper and equipment.

Operation of the belt hopper in case if malfunctions / technical efficiencies, e.g. missing safety equipment, faulty or damaged product parts.

Operation of the belt hopper in case of organizational efficiencies: e.g. deployment of unsuitable operating personnel, application of unsuitable work procedures.

Repair, cleaning or maintenance work without securing or shutting the belt hopper down.

WARNING

No modifications, attachments and alterations must be performed without the manufacturer's prior approval.

Only parts and auxiliary materials approved by the manufacturer for the use with this belt hopper may be used as spare parts and auxiliary materials.

The manufacturer shall not be held liable for damages caused by improper use of the equipment.

Risk of accidents, injuries and property damage exist in case of improper use of the belt hopper. Thus, improper use shall not be permitted.

1.4 Technical data

Protection class: The belt hoppers of these series comply with protection class IP 54.

Belt hopper with 24V direct current drive 0.1 m/min belt speed (standard configuration)

Aricle number	BB 3.5-24-0.1	BB 6-24-0,1	BB 12-24-0,1	BB 25-24-0,1	BB 50-24-0,1	BB 100-24-0,1	BB 200-24-0,1
Max. filling volume	**3.5 l**	**6 l**	**12 l**	**25 l**	**50 l**	**100 l**	**200 l**
Max. filling weight (**24V–0.1m/min**)	**30 kg**	**35 kg**	**40 kg**	**50 kg**	**50 kg**	**50 kg**	**50 kg**
Nominal voltage [V]	**24V=**						
Current consumption [A]	**0.4**						
Motor output [W]	**10**						
Operating temperature [°C]	**-5° to +60°**						

Belt hopper with 24V direct current drive 0.4 m/min belt speed

Aricle number	BB 3,5-24-0,4	BB 6-24-0,4	BB 12-24-0,4	BB 25-24-0,4	BB 50-24-0,4	BB 100-24-0,4	BB 200-24-0,4
Max. filling volume	**3,5 l**	**6 l**	**12 l**	**25 l**	**50 l**	**100 l**	**200 l**
Max. filling weight (**24V–0.4m/min**)	**20 kg**						
Nominal voltage [V]	**24V=**						
Current consumption [A]	**0,4**						
Motor output [W]	**10**						
Operating temperature [°C]	**-5° to +60°**						

Belt hopper with 24V direct current drive 0.8 m/min belt speed

Aricle number	BB 3,5-24-0,8	BB 6-24-0,8	BB 12-24-0,8	BB 25-24-0,8	BB 50-24-0,8	-	-
Max. filling volume	**3,5 l**	**6 l**	**12 l**	**25 l**	**50 l**	-	-
Max. filling weight (**24V–0.8m/min**)	**10 kg**					-	-
Nominal voltage [V]	**24V=**					-	-
Current consumption [A]	**0,4**					-	-
Motor output [W]	**10**					-	-
Operating temperature [°C]	**-5° to +60°**					-	-

Belt hopper with 115V/60Hz and 230V/50Hz alternating current drive 0.85 m/min belt speed

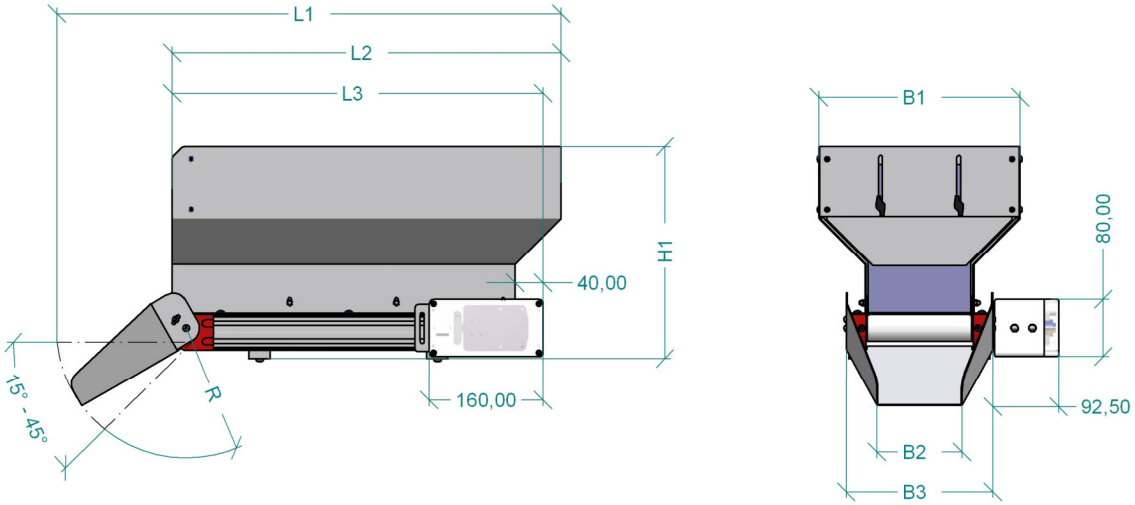
Aricle number for 115V/60Hz	-	-	BB 12-115	BB 25-115	BB 50-115	BB 100-115	BB 200-115
Aricle number for 230V/50Hz	-	-	BB 12-230	BB 25-230	BB 50-230	BB 100-230	BB 200-230
Max. filling volume	-	-	**12 l**	**25 l**	**50 l**	**100 l**	**200 l**
Max. filling weight (**0.85 m/min**)	-	-	**50 kg**	**60 kg**	**70 kg**	**80 kg**	**90 kg**
Nominal voltage [V]	-	-	**115V/60Hz 230V/50Hz**				
Current consumption [A]	-	-	**0.7A at 230V**				
Motor output [W]	-	-	**90**				
Operating temperature [°C]	-	-	**-5° to +60°**				

Belt hopper with 400V/60Hz and 460V/50Hz three-phase current drive 0.85 m/min belt speed

Aricle number for 400V/50Hz	-	-	BB 12-400	BB 25-400	BB 50-400	BB 100-400	BB 200-400
Aricle number for 460V/60Hz	-	-	BB 12-460	BB 25-460	BB 50-460	BB 100-460	BB 200-460
Max. filling volume	-	-	**12 l**	**25 l**	**50 l**	**100 l**	**200 l**
Max. filling weight (**0.85 m/min**)	-	-	**60 kg**	**70 kg**	**80 kg**	**90 kg**	**100 kg**
Nominal voltage [V]	-	-	**400V~460V 50Hz~60Hz**				
Current consumption [A]	-	-	**0,4**				
Motor output [W]	-	-	**90**				
Operating temperature [°C]	-	-	**-5° to +60°**				

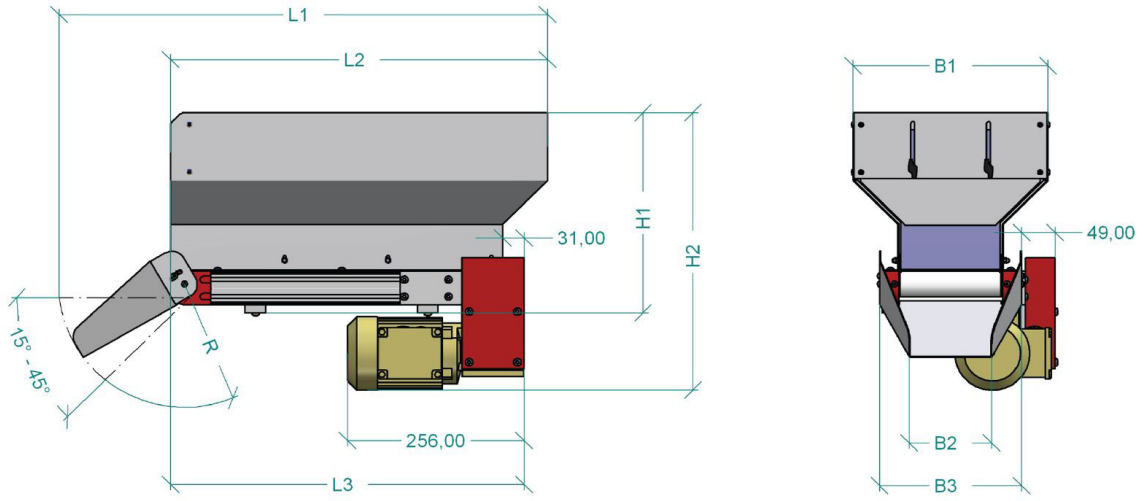
1.5 Dimensions

Belt hopper BB 3.5 – BB 200 with 24V drive kit



Aricle number	Litre	Kg	L1	L2	L3	B1	B2	B3	H1	R
BB 3,5	3,5	30	377	292	302	150	70	146	177	117
BB 6	6	35	457	357	362	180	90	166	197	137
BB 12	12	40	552	427	422	230	110	196	232	172
BB 25	25	50	662	547	522	280	120	206	297	182
BB 50	50	50	787	662	622	350	150	246	362	207
BB 100	100	50	987	832	772	440	190	296	432	257
BB 200	200	50	1247	1057	972	550	240	356	532	317

Belt drive BB 12 – BB 200 with 115V, 230V, 400V or 460V-drive kit, installed in horizontal position



Aricle number	Litre	Kg	L1	L2	L3	B1	B2	B3	H1	H2	R
BB 12	12	60	552	427	413	230	110	196	232	346,5	172
BB 25	25	70	662	547	513	280	120	206	297	411,5	182
BB 50	50	80	787	662	613	350	150	246	362	476,5	207
BB 100	100	90	987	832	763	440	190	296	432	546,5	257
BB 200	200	100	1247	1057	963	550	240	356	532	646,5	317

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1.5 Dimensions (continued)

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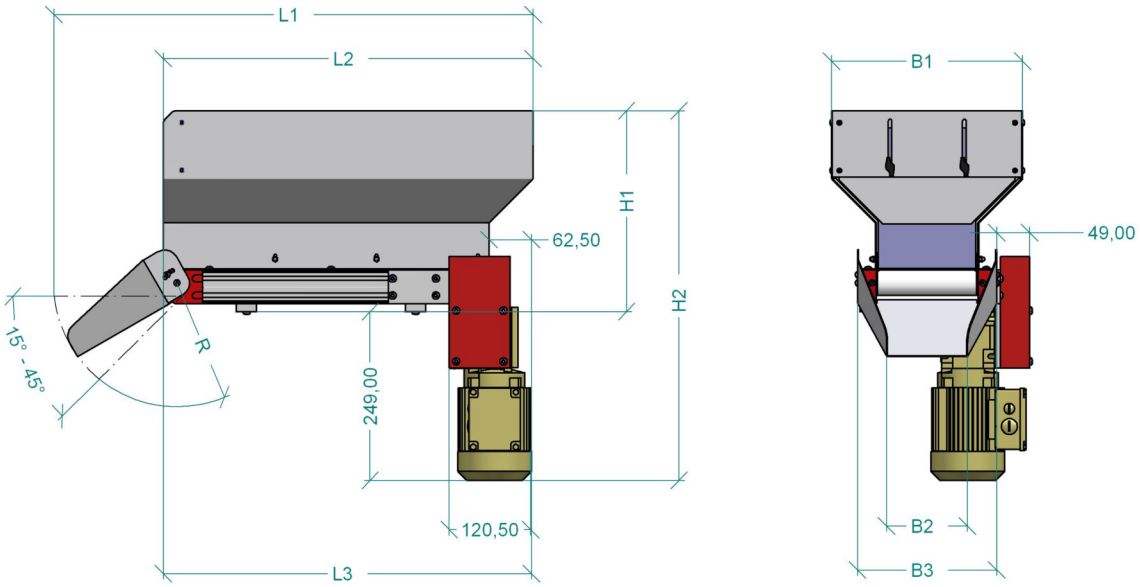
Belt drive BB 12 – BB 200 with 115V, 230V, 400V or 460V-drive kit, installed suspended



Aricle number	Litre	Kg	L1	L2	L3	B1	B2	B3	H1	H2	R
BB 12	12	60	552	427	444.5	230	110	196	232	481	172
BB 25	25	70	662	547	544.5	280	120	206	297	546	182
BB 50	50	80	787	662	644.5	350	150	246	362	611	207
BB 100	100	90	987	832	794.5	440	190	296	432	681	257
BB 200	200	100	1247	1057	994.5	550	240	356	532	781	317

All data in the tables in chapter 1.5 "Dimensions" are stated in mm.

1.6 Noise level

Air-borne noise:	Measuring process:____in-process measurement Measuring instrument:__DIN IEC 651 Measuring code:_____DIN EN ISO 11202 Background noise:_____none Operating conditions:__conveying mode, without conveyed Measuring point:_____1 m sideways distance, 1.6 m height LpA:_____79 dB(A)

2.1 Marking of instructions in the operating manual

Signal words contained in the operating instructions:
The following warnings specify a certain level of hazard:

DANGER — This signal word specifies a hazard involving a high level of risk which, if not avoided, will result in death or severe injury.

WARNING — This signal word specifies a hazard involving a medium level of risk which, if not avoided, will result in death or severe injury.

CAUTION — This signal word specifies a hazard involving a low level of risk which, if not avoided, may result in minor or moderate injury.

Instructions on the machine:
Notes attached right to the machine must be observed under any circumstances.

2.2 Staff qualification and training

The staff for operation, maintenance, inspection and installation must show sufficient qualification of these activities.

Competences and survey of the staff must be carefully organized by the manager. If the staff do not dispose of the necessary knowledge for this purpose, adequate instruction and training will be necessary. At the order of the manager, this instruction and training can be effected by the producer himself. Furthermore, the manager has to guarantee that the staff has entirely understood the contents of this operation manual.

WARNING

Only staff members who have specialist, proven knowledge are allowed to perform maintenance work. To this effect, the persons instructed to do the work must dispose of different skills depending on the scope and the degree of difficulty of the maintenance work assigned to them.

Definition: Instructed staff
An instructed staff member is any person who has been informed about the tasks assigned to her or him and the possible dangers in case of inappropriate behavior and who has been trained and advised on the required protective equipment, if necessary.

Definition: Specialists
Specialists are workers who, due to their special training, knowledge and experience as well as the knowledge of the applicable provisions, are capable of judging the work assigned to them and recognizing possible dangers.
In addition to their (general) training, specialists must also be briefed in features and specific safety requirements of the belt hopper.

Mandatory qualification requirement
If personnel do not have the required knowledge, they must be trained accordingly. The carrier of the belt hopper is responsible for verifying professional qualification and education of the operating personnel.

2.3 Safety information

Our belt hoppers are built according to state-of-the-art technology and accepted safety regulations. This operating manual contains basic information ensuring failure-free and safe operation. Thus, it must absolutely be read by the responsible personnel/carrier and always be available at the site of operation of the belt hopper.

Information and labels attached to the belt hopper must be maintained in readable condition and may not be removed! After cable, line and component replacement, all existing labels and signs must be respectively reinstalled or newly installed.

Occupational health and safety information refer to the currently valid guidelines of the European Community. Please also comply with accident prevention regulations for continuous conveyors and electrical equipment. Furthermore, respective laws and country-specific provisions must be observed and met other countries.

The employees must be instructed with regard to risks and the necessary protective measures at regular intervals, at least however once per year.

The carrier of the belt hopper must prepare working instructions for handling of product parts. The belt hopper operator must completely observe these instructions. For issues related to occupational health and safety (e.g. handling of cleaning agents), the carrier must prepare operating instructions.

Commissioning, maintenance and repair may only be performed by specialists.

WARNING

For commissioning, maintenance, repair and troubleshooting activities, the conveyor must be disconnected from the power supply. Work on electrical equipment may only be performed by skilled electricians / electrical specialists. Risk of injury and electric shock exists! Make sure that the protective earthing of the power supply is in faultless condition.

Noise emission:
The permanent noise level amounts to maxim 79 dB(A). Product parts transport or belt consistency can cause a higher noise level. For these special cases inquire with the manufacturer regarding noise protection measures.

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2.3 Safety information (continued)

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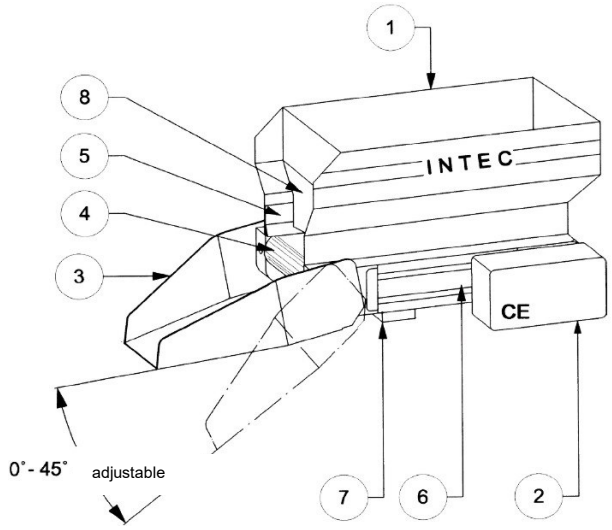
WARNING

Hopper belt and specific belts:
If despite the extremely low belt speed, due to the equipment layout or application, operators are exposed to risks due to pulling in of body parts, the belt hopper carrier must provide appropriate covers of the hazardous locations.

Protection class:
If the belt hopper is used in wet or humid environment (wet area), then it must be ensured that the protection class of the delivered is sufficient.

3.1 Basic Construction



1 Hopper bowl
2 Drive kit
3 Part chute (continuously adjustable from 0° to 45°)
4 Conveyor belt
5 Adjustable side guides
6 Belt frame
7 Fastening stripes
8 Front panel with transparent seal curtain

3.2 Equipment description

The belt hopper is exclusively used for supply, refilling or conveying of specific product parts.

INTEC belt hoppers are based on a conveyor belt, which transports parts to an inclined chute. To ensure a certain filling volume, a specific parts storage container is mounted onto this conveyor belt. In all construction sizes, the conveyor belt is driven by a direct current gear motor. Optionally a three-phase motor can be used. As direct drive gear motors feature a preferred rotational direction, changing the running direction of the conveyor belt by reversing the polarity of the drive voltage impacts the motor life time. However, reverse operation is not required for proper use of the belt hopper.

Application areas:

- Parts supply for sorting and feeding equipment,
- Loading of packaging systems,
- Loading of weighing machines and counting equipment,
- Metered parts supply, also at manual workplaces
- Can be used in the food and pharmaceutical sector.

4.1 Transport information

The belt hopper is packed and transported in a crate.
The belt hopper centre is the centre of gravity.
The crate should be transported using a solid transport trolley.
They weight depends on the belt hopper configuration and can be found in the transport documentation.
Prior to transport, disconnect the belt hopper from the power supply.

4.2 Safe installation information

WARNING

Assembly work may only be performed by specialists.

Make sure that the belt hopper cannot be started by unauthorized persons prior to performing setup work on the belt hopper. Mount warning and information signs clearly visible prior to work start!

Only use proper tools, especially spanners, which do fit and are not widened. Do not work with oily hands. Accidents due to slipping!

Make sure, that disassembled protection devices are reinstalled prior to first restarting.

Test runs: Verify that no tools, screws, auxiliary material or items are within the effective range of the belt hopper.

During assembly make sure that the belt run is not restricted.

4.3 Installation site

The belt hopper should be installed on a solid, horizontal and flat base, plate, and pedestal or similar or on a stand to avoid distortion of the aluminium profiles and ensure centred running of the belt. It is not absolutely necessary to bolt the unit to the base; however, the unit must then be secured against possible falling down.

CAUTION

During installation of the belt hopper, ensure that the belt is not exposed to strong heat. Otherwise, the belt could stretch and slip of the crosshead dies. Keep oil, swarf, etc. away from the belt hopper.

Installation in explosion hazardous areas is prohibited.

4.4 Assembly and electrical connection

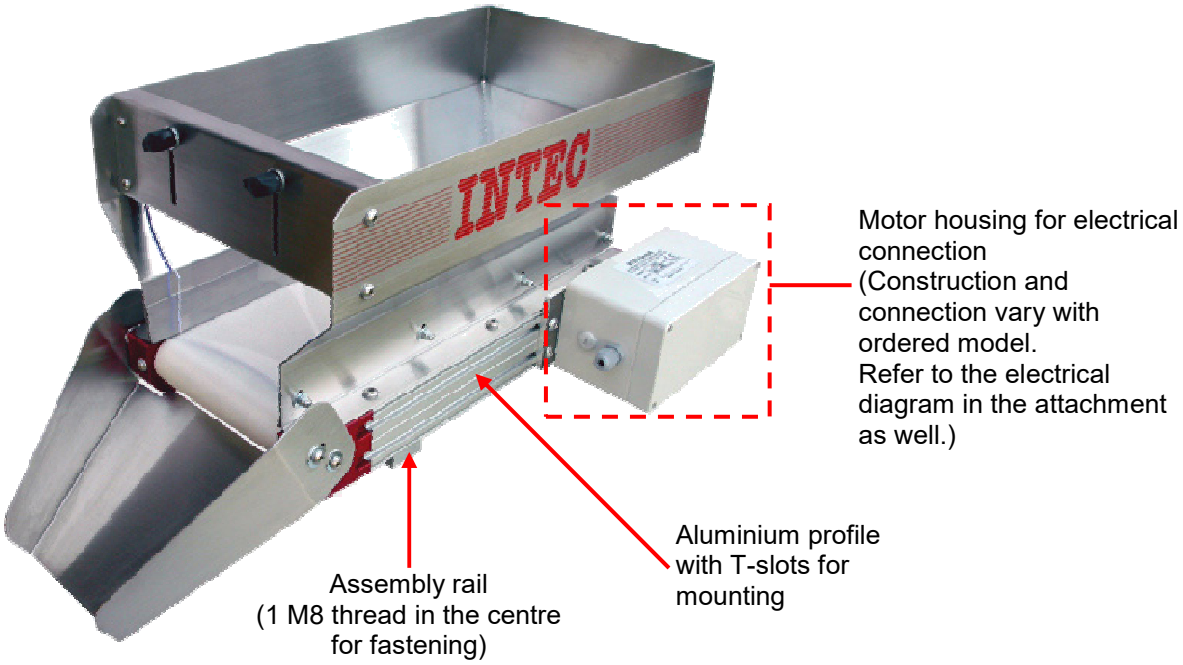
The delivered belt hopper is completely assembled and must only be integrated into the control mechanism of an existing system. Furthermore, electrical power supply must be ensured. For fixed installation, T-slots can be found in the lateral aluminium profiles suitable for fastening. If the unit is equipped with assembly rails, then they can be used for fastening the belt hopper.
After each assembly, the belt run must be checked for centered running and adjusted if necessary. (See chapter 7.3 "Settings")

The 24V= drive unit may only be supplied with 24 V direct current. Proper polarity of the connections must be observed. The installation of the protective earthing conductor must be ensured as well.
The 230 V drive unit may only be supplied with 230V alternating current.
The 400 V drive unit may only be supplied with 400V three-phase current.
The respective connection cable must be equipped with a properly connected protective earthing conductor.
The electrical diagram at the inside of the motor housing lid must be observed. The unit may only be connected by authorized personnel.

WARNING

In case of malfunctions, the system must be disconnected from the power supply.

The electrical connection according to the enclosed electrical diagram my only be performed by electrical specialists. At the factory, all connections for motor, control board, etc., are connected to a terminal. Furthermore, the unit is already earthed. For cable penetration into the motor housing, a screw connection is located at the face side of the housing. Ensure a sufficient supply diameter. The connection cable must be equipped with a properly connected protective earthing conductor. Instead of targeting continuous running of the belt hopper, delayed starting/stopping of the belt hopper by min/max control of the conveyor unit to be fed, should be targeted.



5.1 Safety information

WARNING

Observe the safety instructions set out in chapter 2 "Safety" of this manual.

Define the responsibilities of the commissioning staff, and authorize them to refuse the execution of unsafe instructions issued by third parties.

Only work on this belt hopper, if you were briefed regarding handling with respect to your function.

Prior to commissioning, check the belt hopper for correct settings and for all required safety devices.

Basically no safety devices may be disabled, removed or bypassed.

Prior to shift start, briefed and trained personnel must check safety and protective devices for proper condition. If deficiencies are detected, which impact the safety of the belt hopper, the belt hopper must be shut down until these deficiencies are corrected.

Do not perform any cleaning activities after switching the belt hopper on.

Operating personnel are not allowed to carry out any work on the electrical equipment. Refer to the equipment signs and labels attached to the belt hopper. Label: Lightning flash.

Do not reach into the conveyor belt or transported material while the belt hopper is running.

Faulty machine components must be replaced as soon as possible. Please use the enclosed spare parts list to identify required spare parts.

5.2 Commissioning

Verify correct installation according to chapter 4 “Transport & assembly”.

The belt hopper is not equipped with a control unit and must be controlled by the system, into which the belt hopper is integrated.

Verification of the belt run:
During first commissioning, the belt run must be checked for centered running and adjusted if necessary. (See chapter 7.3 "Settings")

Verification of the side guides:
The side guides of the hopper bowl must be adjusted in such a way that no gap exists between hopper belt and side guides. Recalibrate if necessary.

5.3 System filling

According to maximum filling volume and maximum filling weight. The permitted limits of your belt hopper can be found in the table in chapter 1.4 "Technical data".

6.1 Wear and spare parts

Defective machine parts should be replaced as soon as possible. Please use the spare parts list enclosed in the attachment to identify required spare and wear parts.

WARNING

Only original parts or parts with equivalent quality maybe used for parts replacement.

6.2 Inspection

As needed.
Clean the conveyor belt and both crosshead dies using cleaning alcohol and a clean, lint-free cloth. When used in the food industry, an approved cleaning alcohol replacement must be used.

After two weeks of initial running:
Check tension and concentricity of the conveyor belt and adjust if necessary.
Afterwards checks in 4-weeks intervals.

After 200 operating hours:
Replace the carbon brush in direct current motors (if applicable for your belt hopper). Thoroughly clean the surroundings. Besides that, gear motors are maintenance-free for 10000 operating hours. If required, dust entire motor area to ensure optimum cooling,

No other belt hopper component requires maintenance

6.3 Settings

Side guides:
In the parts storage container adjustable V2A rails are located on both sides. These rails prevent small parts from getting under the belt. They can be adjusted after the cap nuts are loosened. The adjustable sheets should not impact the belt run.

Parts chute:
The inclination of the chute can be adjusted after loosening the round head screws. When parts are supplied to pivoting conveyors, it must be observed that parts dropping from the chute, should fall centred into the unit, and not onto baffle plates, which could impact operation.

Seal curtain:
The seal curtain is located at the runout of the conveyor belt. In the case of large filling volumes in the hopper, it prevents too many parts falling from the chute while the system is not running. If larger parts to be conveyed do not fit through the curtain, then the customer should shorten the curtain using suitable tooling until parts can optimally pass.

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6.3 Settings (continued)

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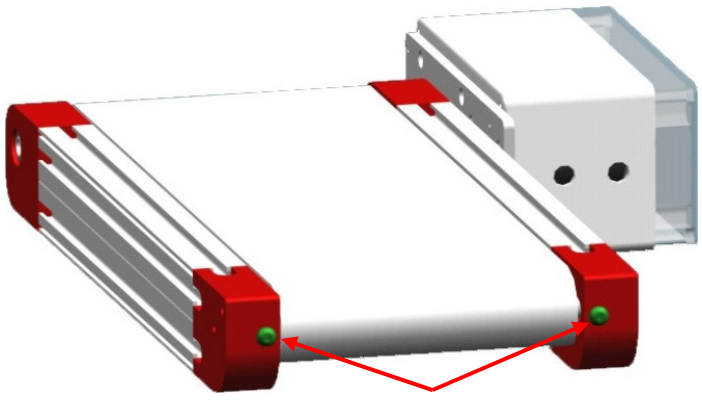
Adjustable front panel (optional):
At the conveyor belt run out an adjustable front panel is located. Optimal parts dosage depends on the passage height between the upper edge of the conveyor belt and the lower edge of the front panel. The stainless steel slider can be adjusted up and down by loosening the butterfly screw on the front panel. Thus, the passage height can be adjusted to the parts.

Belt tension:
At the factory, the belt is tensioned and aligned on drive and guide rollers.
Belt tension must be adjusted to ensure that even for a full part storage container (observe max. belt load of your belt hopper type!) the conveyor belt does not slip. Belt tension is adjusted by turning the round head screws on the tension-crosshead dies. Clockwise turning increases belt tension. At the same time, the belt alignment to centre can be impacted. The conveyor belt must run concentric between the head pieces. If the belt touches one of the head pieces, then the concentric run must be corrected to avoid increased belt wear. For this purpose, the round head screw on the tension crosshead die, which the belt touches, must be tightened or the screw of the opposite tension crosshead die must be loosened. Observe belt tension!

⚠ CAUTION

If the belt is to tight, belt, bearings as well as drive can be overloaded. After fine adjustment, measure the current consumption of the motor. If it exceeds the nominal data on the name plate, the round head screws must be evenly loosened. After adjustment, a test turn must be performed for several hours. After first commissioning, the belt alignment to center must be verified several times a day.

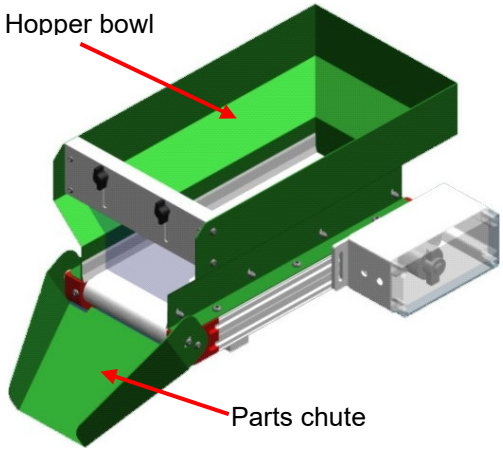


Tensioning screws
on the tension
crosshead die

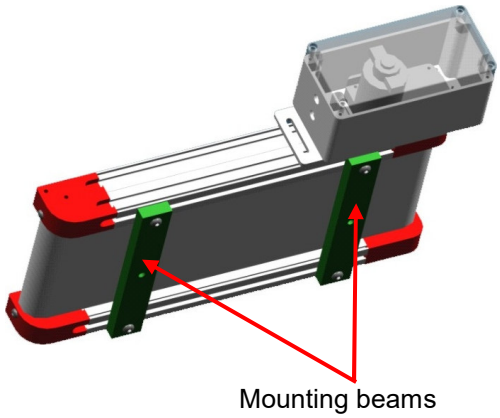
Chain tension (only for 230/400V drive)
Chain tension is adjusted by the manufacturer. Readjustment of the chain tension for 230/400V drives is usually not necessary. If necessary, the chain can be re-tightened by removing the drive cover of the 230/400V drive and adjusting the idler. Prior to that, the system must be disconnected from the power supply. Reinstall the drive cover after the adjustment!

6.4 Replace transport belt

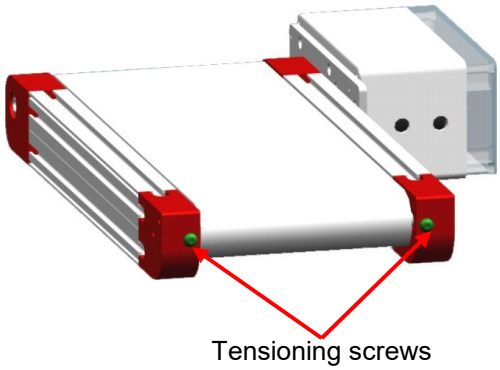
1. Disassemble hopper bowl and parts chute (marked in green - see illustration)



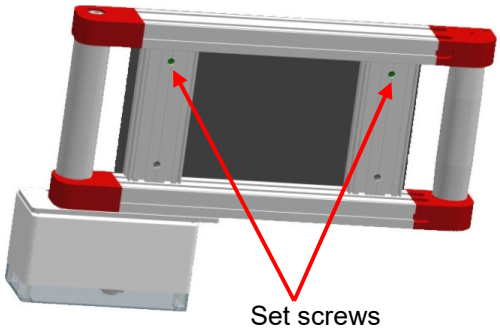
2. Disassemble mounting beams (marked in green - see illustration)



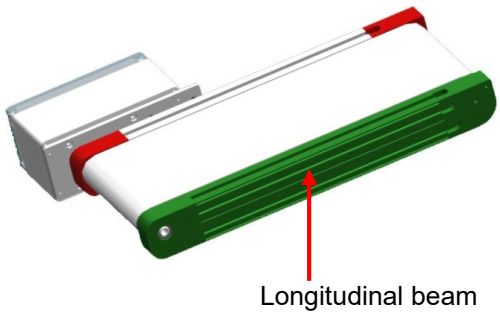
3. Loosen and disassemble tensioning screw on the tension crosshead die (marked in green - see illustration)



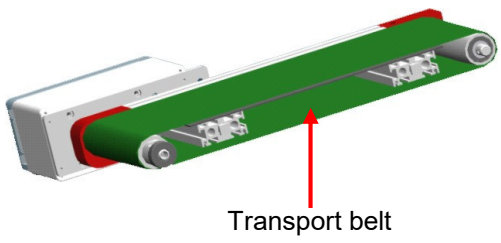
4. Move belt on the lower side of the transport body to the side and loosen the set screws on one side of the cross beam (marked in green - see illustration)



5. Pull longitudinal beams and crosshead dies down (marked in green - see illustration)



6. Pull transport belt off (marked in green - see illustration)



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6.4 Replace transport belt (continued)

>>

7. Slip new belt on the transport belt body and assemble belt hopper in reverse sequence.

8. Assembly and setup checklist

a) Make sure both longitudinal beams are perpendicular (see illustration)

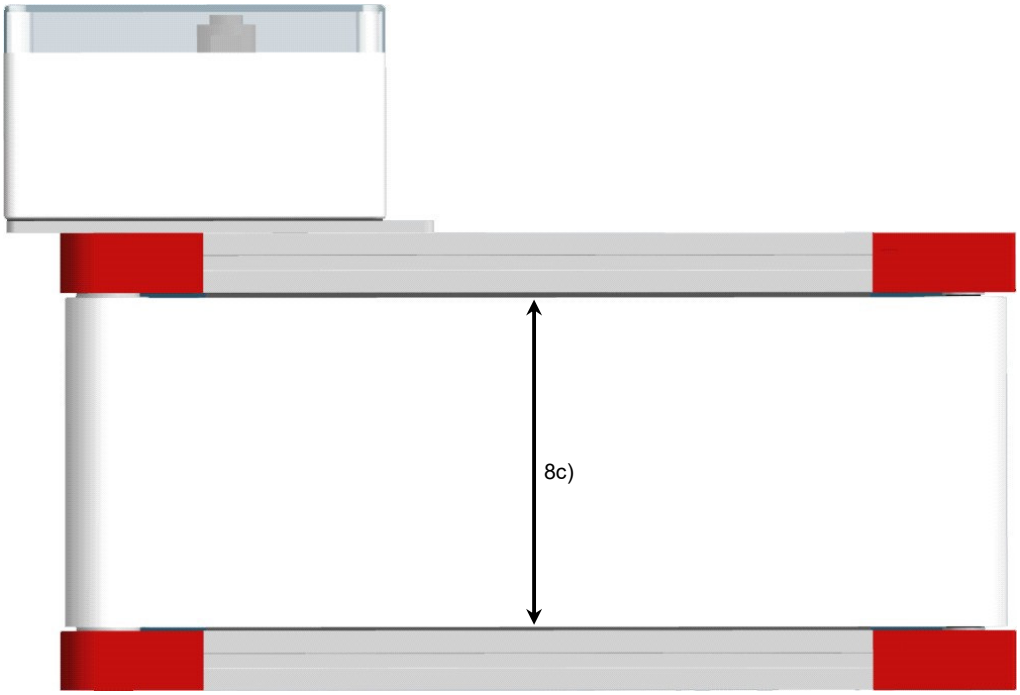
b) Avoid twisting/warping while tightening the set screws (cross beams - see point 4)

c) Uniformly tension the transport belt. Make sure, the belt is properly aligned to the centre (see illustration)

d) Do not "over-tension" the belt (see Operating manual)

e) Check the adjustable sheet settings and readjust if necessary (see Operating Manual)

f) Make sure that the transport belt does not rub on the hopper bowl



Declaration of Conformity

according to EC directive for machines (2006/42/EC, annex II A)

The manufacturer,

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Werner-von-Siemens-Str. 11
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E-Mail: info@intec-ger.de
Internet: www.intec-ger.de

declare in exclusive responsibility, that the machine,

Description: Belt Hopper BB
Series: BB 3,5, BB 6, BB 12, BB 25, BB 50, BB 100, BB 200
Year of construction: 2020

conforms to all the relevant regulations of the directive Machines (2006/42/EC).

Moreover, the machine conforms to all the regulations in the directives Electrical Operating Equipment (2006/95/EC) and Electromagnetic Compatibility (2004/108/EC).

The following harmonized standards were applied:

DIN EN 12100	Safety of machinery - Basic concepts, general principles for design,
DIN EN 60204-1	Safety of machinery - Electrical equipment of machines, Part 1: General requirements

The person responsible for the documentation is: **Mr. Max (General Manager)**

Place, Date: .....

Signatory and information on signatory: .....

Signature: .....