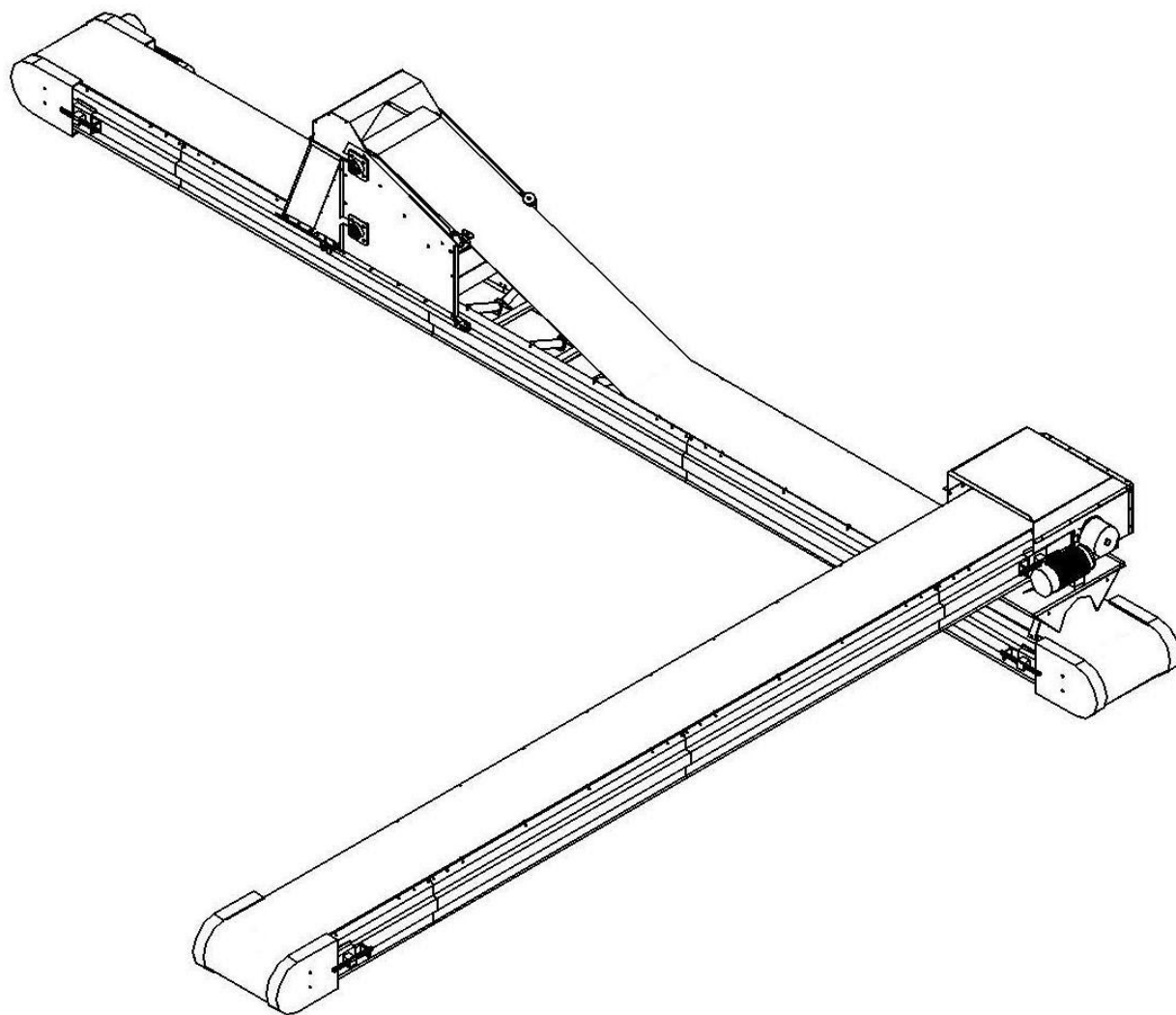


BCB 60 & BCB 80

Belt Conveyors



Manual

Contents

Contents	2
Introduction.....	4
EU Declaration of conformity	5
Conditions for use.....	6
General information	7
Delivery	7
Storage.....	7
Noise level measuring	7
Type plate.....	7
A – C belt system	8
B – C belt system	8
Construction	9
Capacity	9
Technical specifications – power consumption	9
Drive station & tension section.....	10
Extensions.....	11
Conveyor belt	11
Movable discharge unit	11
Scale drawing BCB 60/BCB 80.....	12
Upon receipt.....	13
Warning labels.....	13
Foundation	14
Lifting equipment.....	14
Lifting instructions	15
Weight table – individual components BCB 60/BCB 80.....	16
Weight table – Belt conveyor BCB 60/BCB 80.....	19
Assembly	20
Drive section & tension section	20
Extensions.....	21
Movable discharge unit	22
Inlet trough	23
Conveyor belt, reset rollers & shielding.....	24
Motor	25
Outlet skirts	26

Track rollers BCB 80	27
Scrapers	28
Speed monitor	29
Potential adjustment	30
Fitting	31
Starting up	32
Belt conveyor stops – fault finding	32
Maintenance	33
Gear motor	33
Motor	33
Bearings	33
Lubrication of bearings	34
Drive station	34
Tension section	34
Movable discharge unit	34
Belt	34
Speed monitor	35
Leaks	35
Noise and vibrations	35
Disposal	36
Options/accessories	36
Collection hopper	37
Top cover/cover plates	38
Speed monitor	39
Diagram – relay control for speed monitor	40
Electric cable pull for movable discharge unit	41
Proximity sensor bracket for electric cable pull	42
Parts BCB 80	43
Parts BCB 60	44
Parts list BCB 60/BCB 80	45
Parts BCB 80 movable discharge unit	46
Parts BCB 60 movable discharge unit	47
Parts list BCB 60/BCB 80 movable discharge unit	48

Introduction

Important!

Please read these instructions carefully before assembly and use.

EU Declaration of conformity

The manufacturer: JEMA AGRO A/S
Kløservejen 2, Sahl
DK-8850 Bjerringbro
Tlf. +45 86 68 16 55

Hereby declares that:

Product: Belt conveyor
Type: BCB 60/BCB 80 (T50/ T51)
Year of production: 2006

- Conforms to the Machine directive 2006/42/EF with special reference to the directive appendix 1 regarding major health- and safety regulations regarding construction and production of the machines

The following standards have been applied:

EN ISO 12100-1:2005	Basic terminology and methodology
EN ISO 12100-2:2005	Technical principles
EN 1050:1997	Principles for risk assessment


- is in accordance with EMC-directive 04/108/EF of 15th December 2004 regarding electromagnetic compatibility.

Director Jens-Peter Pedersen

Title Name

28-09-2010

Date Signature



Conditions of use

Kongskilde Industries A/S belt conveyors BCB 60/BCB 80 have been constructed for transport of grain, granular materials and seed mix.

- The belt conveyors BCB 60/BCB 80 must only be used for the product(s) specified in the contract.
- The electrical connections must be done by a qualified electrician.
- The belt conveyors BCB 60/BCB 80 must be potential adjusted in accordance with the current local regulations
- The belt conveyor has been thoroughly controlled regarding maintenance, and a checklist has been drawn up containing regular cleaning- and maintenance intervals. If these intervals are not observed, the Kongskilde Industries A/S conditions for a trouble-free operation cease to exist and the warranty will be invalid. Please read the attached maintenance summary.
- During installation, maintenance or repair the electric supply to the belt conveyors must be disconnected and secured against accidental reconnection.
- The user manual must be kept / be available in close proximity to the belt conveyor BCB 60/BCB 80.

General information

Delivery

The belt conveyor is disassembled for shipment. Standard packing (pallet/wooden boxes, grid boxes, etc.) Regarding the actual transport there are no specific requirements apart from normal consideration.

The shipment includes the parts stated in the order confirmation.

Before installation and use, this manual must be read carefully.

Storage

There are no precautions regarding long-time storage.

After delivery the components must be kept in a suitable, dry storage area before installation.

Noise level

A noise level test was conducted for the belt conveyor. The level has been measured in a distance of 1 m from the conveyor.

During the test the belt conveyor was without any load, which is the operational state of maximum noise level.

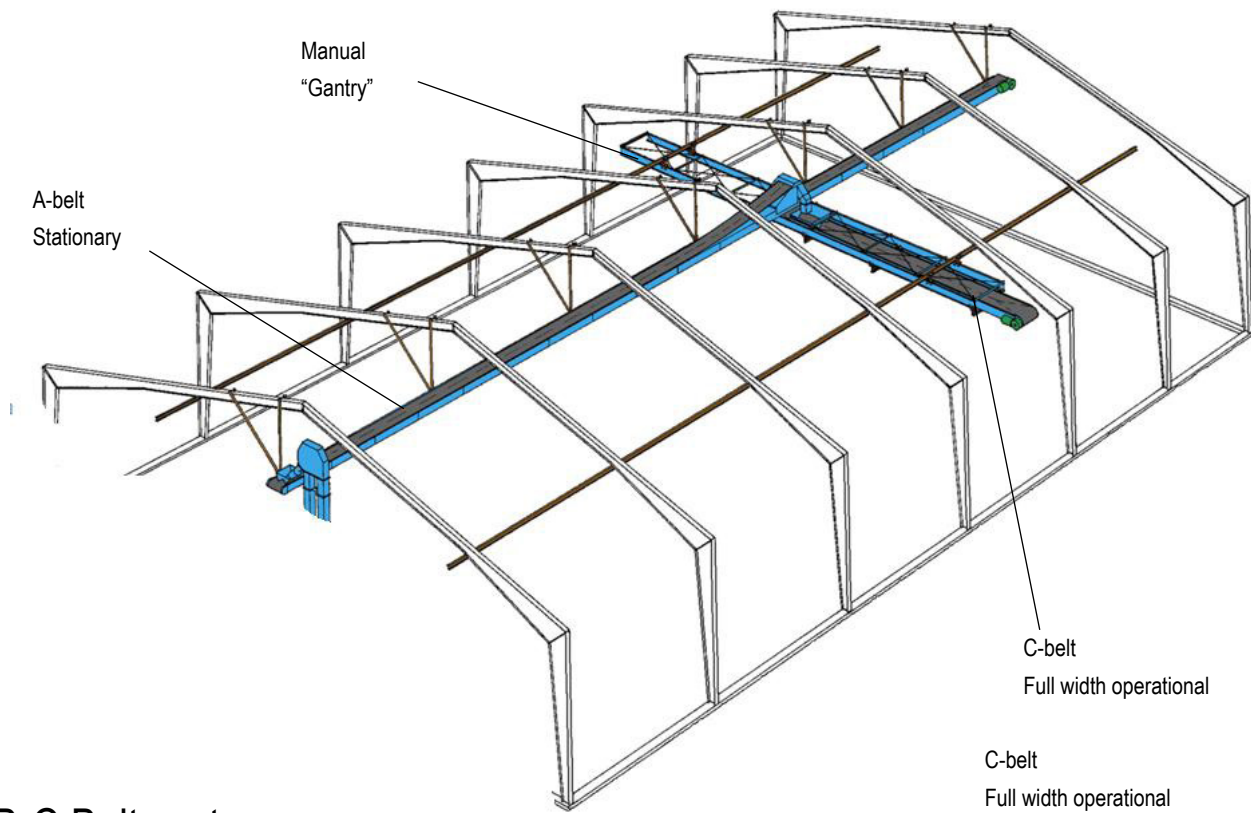
The measured noise level is 70 dB

Type Plate

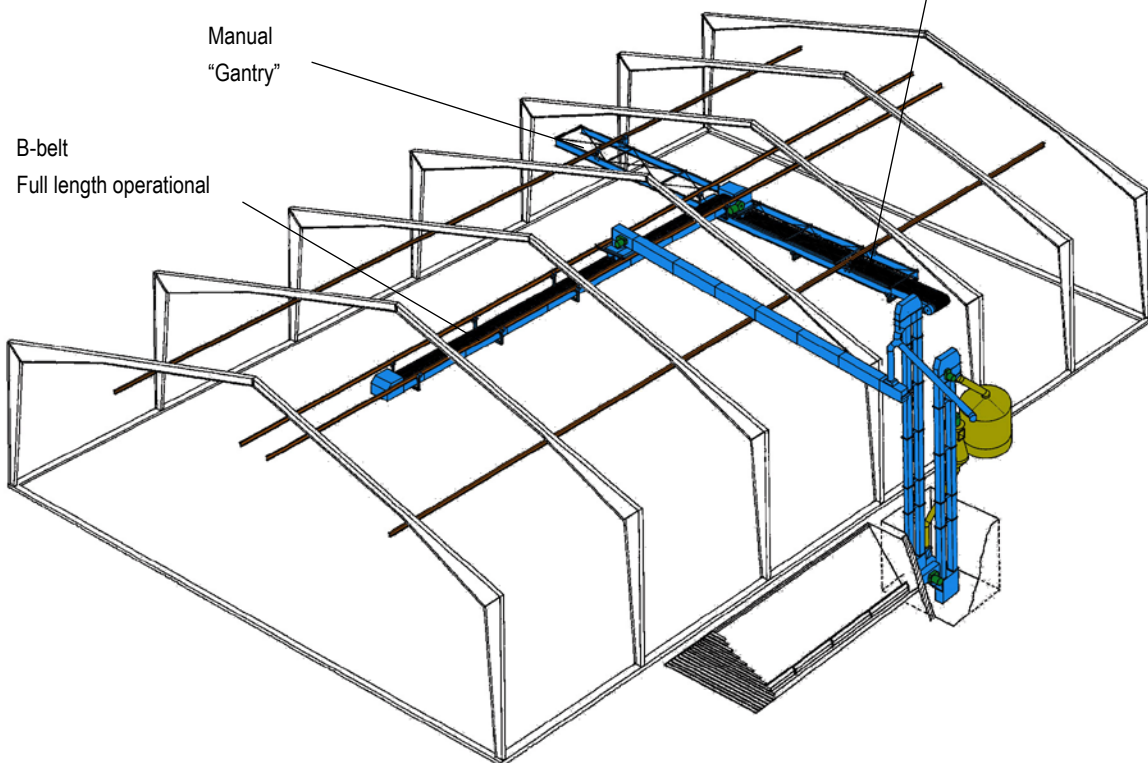
The type plate is fitted on the drive station.



A-C Belt system



B-C Belt system



Construction

The belt conveyor BCB 60/BCB 80 is made up of standard elements, which can be combined and easily integrated into all grain conveyor systems. The belt conveyor is characterized by a large capacity with compact dimensions. The conveyor operates efficiently both horizontally and at an inclination of up to 30° and offers – in spite of the capacity – low power consumption.

The conveyor is made of galvanized steel. The transport function is a belt, available in 2 sizes, BCB 60 has a belt width of 400 mm for 60 t/h. BCB 80 has a belt width of 500 mm for 105 t/h. BCB 80 is fitted with sliding profiles on the front side with 0.5 m intervals and the return side is fitted with track rollers with 2.0 m intervals.

The belt conveyor can transport material in both travel directions and it is capable of an incline up to 30° by the use of carriers – however at a reduced capacity

The belt conveyor can be fitted stationary or mounted on rails. Outlets can be placed above one or both ends – or a movable discharge unit, which can discharge the material in the full length of the belt.

The belt conveyor consists of:

- Drive station
- Tension section
- Conveyor belt
- Extensions from 0.5 m to 2.0 m
- Movable discharge unit
- Inlet trough
- Worm geared motor

Capacity

The table below shows the various density capacities:

Density	BCB 60 (85 m ³ /h)	BCB 80 (140 m ³ /h)
650 kg. pr. m ³	55 t/h	91 t/h
700 kg. pr. m ³	60 t/h	98 t/h
750 kg. pr. m ³ (wheat)	63 t/h	105 t/h

Measured in cleaned, storable material at a power supply of 50 Hz

The capacity varies according to the nature of the material.

Technical specifications – power consumption

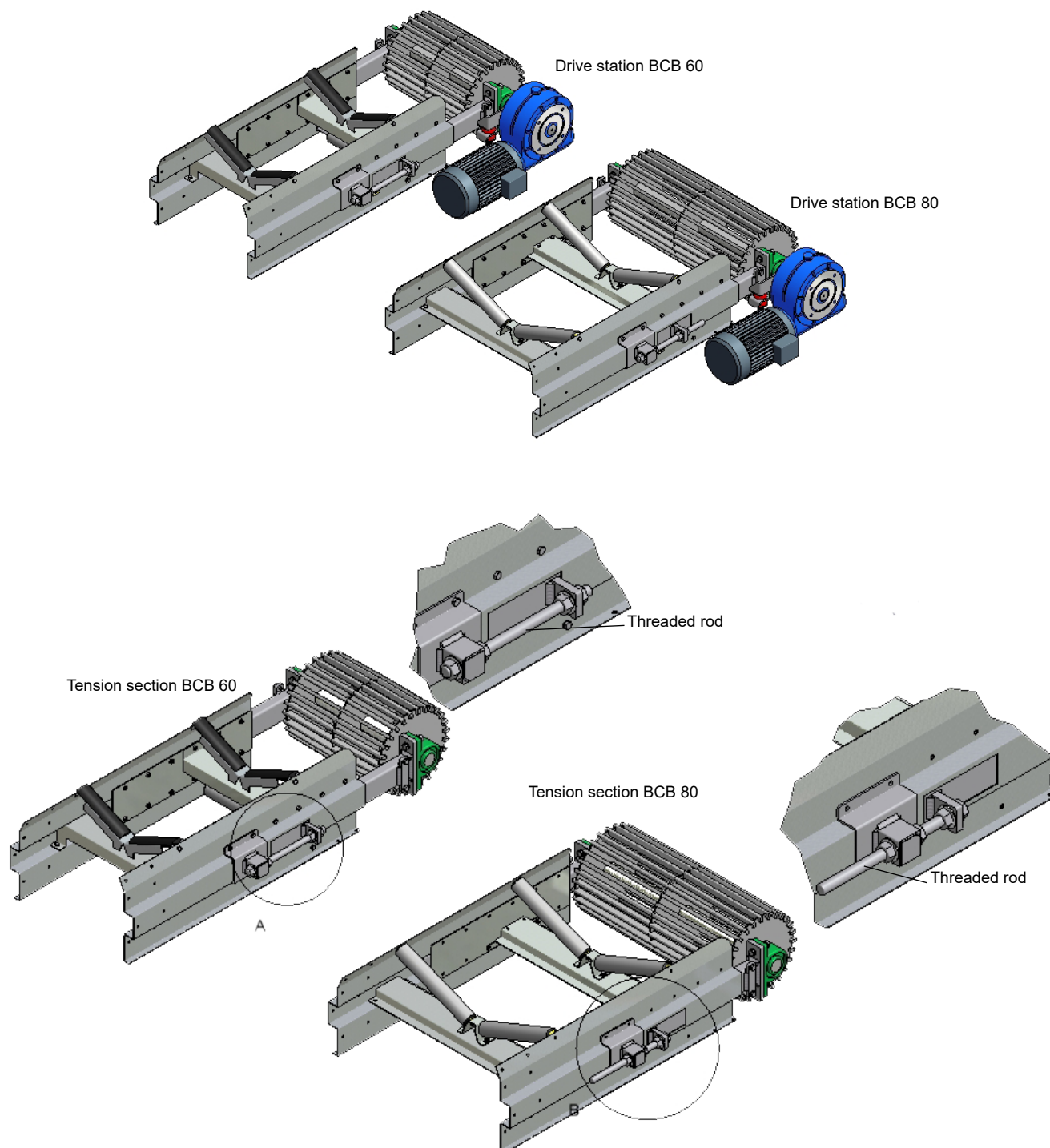
Belt conveyor BCB 60/BCB 80 - power consumption in kW:

	2,2 kW	3,0 kW	4,0 kW	2 x 2,2 kW	2 x 3,0 kW	2 x 4,0 kW
BCB 60	2,0 - 16,0 m.	17,0 - 26,0 m.	27,0 - 39,0 m.	40,0 - 43,0 m.	44,0 - 63,0 m.	64,0 - 80,0 m.
BCB 80	2,0 - 21,0 m.	22,0 - 35,0 m.	36,0 - 52,0 m.	53,0 - 58,0 m.	59,0 - 85,0 m.	86,0 - 100,0 m.

Drive station & tension station

The conveyor belt is equipped with a drive station and a tension station. The drive station is fitted with a motor, available in various sizes – see section “Technical specifications”.

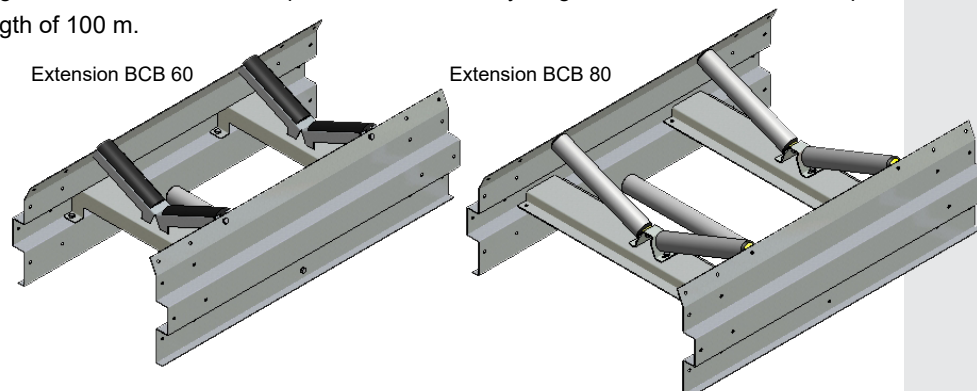
The drive station and tension station are fitted with two threaded rods for belt tensioning/adjustment.



Extensions

The extensions for the belt conveyor are available in different lengths: 0.5 m – 1.0 m – 2.0 m.

By combining these elements, it will be possible to obtain any length with intervals of 0.5 m up to a total length of 100 m.



Conveyor belt

Belts up to 12.0 m. can be ordered pre-vulcanised

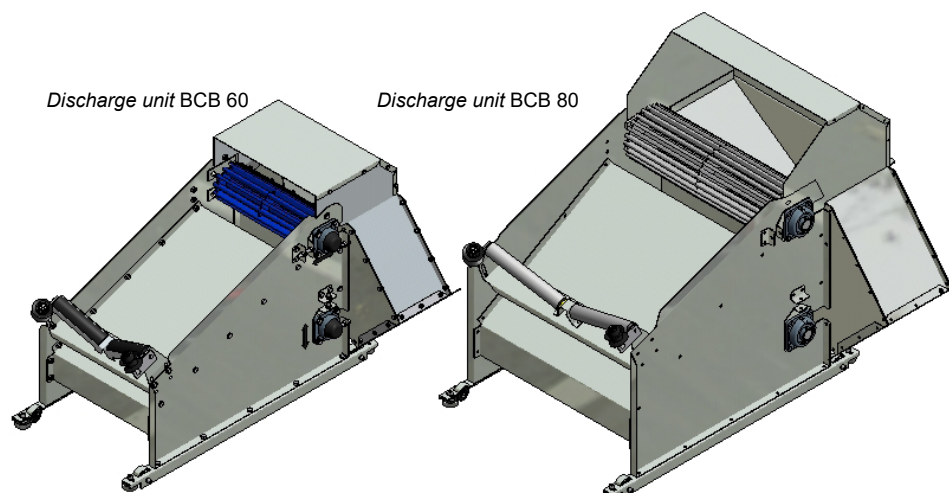
Conveyor belts above 12.0 m must be vulcanised by trained staff at the customer premises.

Belt quality	BCB 60	BCB 80
Standard quality		NK 250/2, 3,0 +1,0
Oil resistant	GOR 315/3 2+0	GOR 250/2, 3,0 +1,0
With carriers		NK 250/2, 3,0 +1,0, slats VM 16
With carriers Oil resistant	GOR 315/3 2+0	GOR 250/2 3,0+1,0

Movable discharge unit

The discharge unit can constantly unload material to the left or right hand side of the belt, starting 5.0 m from the inlet (shown on the drawing page 12) and up to 1.0 m before the opposite end of the belt.

The discharge unit must be attached with electric cable pull or connected to a cable pull to stop it from travelling to the end of the belt in the opposite direction.

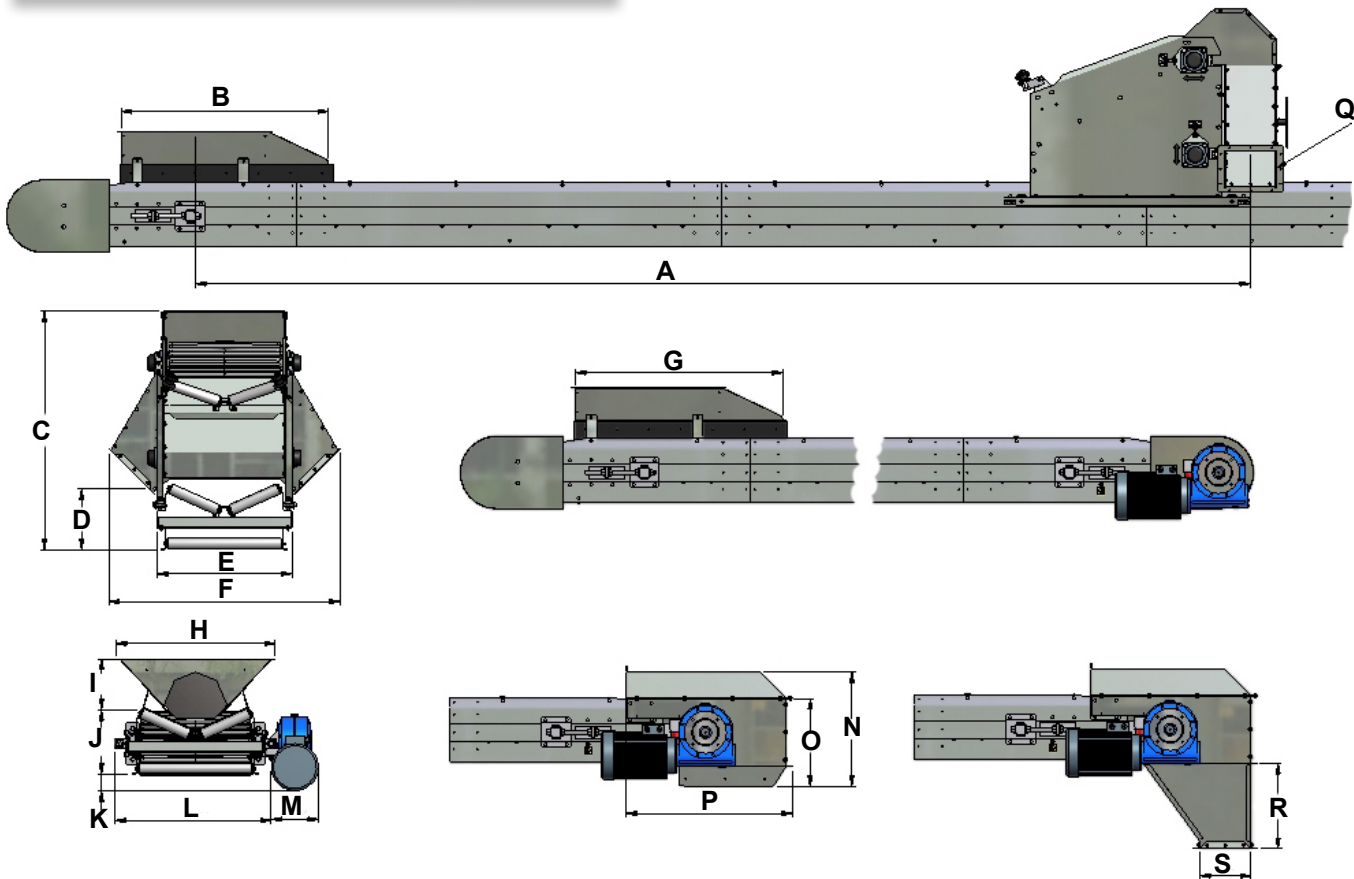


Scale drawing BCB 60/BCB 80

	A	B	C	D	E	F	G	H
BCB 60	Min. 5000	1000	955	320	535	1000	1000	650
BCB 80	Min. 5000	1000	1150	300	635	1100	1000	750

	I	J	K	L	M	N	O	P
BCB 60	215	300	70	650	200	540	415	780
BCB 80	215	300	70	750	200	540	415	780

	Q	R	S
BCB 60	240 x 240	400	240 x 240
BCB 80	240 x 240	400	240 x 240



Upon receipt

Please check that all parts and components are included in the shipment and check for possible transport damages.

NB: Make sure that the relevant supplier documentation is attached. In case of missing documentation, please contact Kongskilde Industries A/S – remember to state the order no.

Remember all necessary safety equipment before installation.

Please read this manual carefully before assembly or installation work begins.

Warning labels

The belt conveyor is fitted with warning labels.

Warning!

The covers and shields must not be opened or removed, when the machine is working.



Foundation

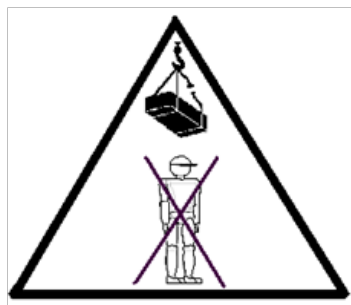
The belt conveyor should be placed on a level surface, and that the attachment / support are of sufficient capacity.

Lifting equipment

Make sure to have the required SWL-approved lifting equipment/crane, required for the actual job.

The lifting equipment must be approved to carry the load in question. The load capacity for the individual components can be seen under "Parts list BCB 60/BCB 80" in this manual.

The total weight of the machine is stated in the section "Weight table belt conveyor BCB 60/BCB 80".

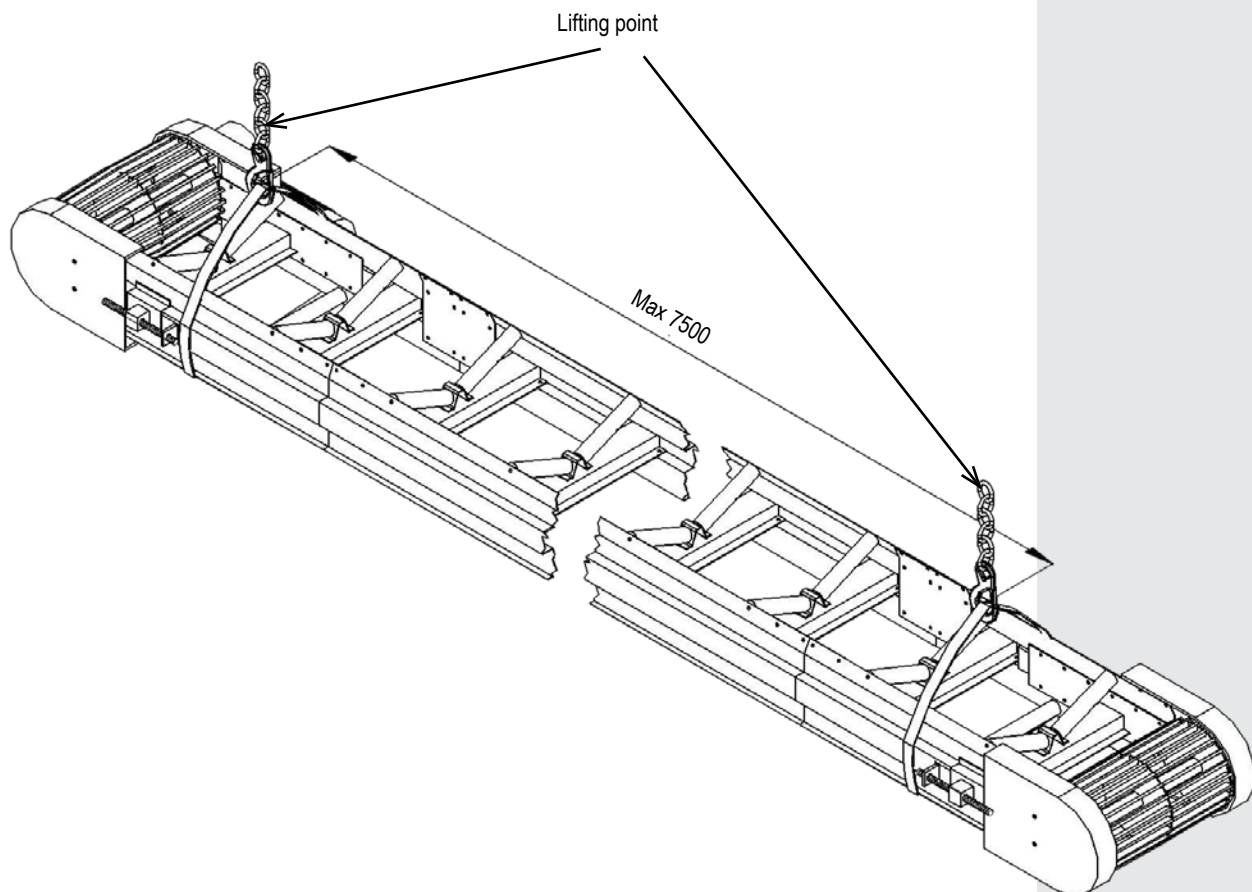


NB: Always make sure that nobody is standing under a suspended load.

Lifting instructions

The drawing below shows how to lift the belt conveyor.

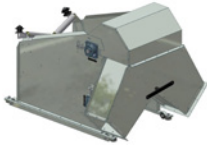

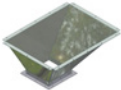
Max. allowed distance between 2 fixation points is 7.5 m.



Weight table – individual components BCB 60/BCB 80

	Description	BCB 60 part no.	Weight kg	BCB 80 part no.	Weight kg
	Drive station 1.0 m	92050518	89	92050177	99
	Tension station 1.0 m	92050520	83,5	92050174	95
	Extension 0.5 m without belt	92050515	10,5	92050178	13
	Extension 1.0 m without belt	92050516	19,5	92050175	24,5
	Extension 2.0 m without belt	92050517	37,5	92050176	47,5
	Belt 500/650 mm NK 250/2, 3.0 + 1.0	92091139		92091140	
	Oil resistant belt 500/650 mm, 250/2 3.0+1.0 GOR			92091147	
	Oil resistant belt 400 mm EP 315/3 2+0 GOR				
	Belt 500/650 mm NK 250/2, 3.0 +1.0 with V slats VW16	92091144		92091145	
	Belt 500/650 mm 250/2 3.0+1.0 with V slats VML15/310. Oil resistant			92091138	
	Belt 400 mm EP 315/3 2+0 VMLS-15/310 with V slats. Oil resistant				
	Inlet trough for model A	92050522	13,3	92050189	14,5
	Inlet trough for model B + C	92050523	16,3	92050190	17,5

	Description	BCB 60 part no.	Weight kg	BCB 80 part no.	Weight kg
	Baffle plate for outlet	92050526	11	92050103	12
	Outlet skirt without top part	92050527	17,4	92050110	18,2
	Raised edge for outlet skirt	92050529	2	92050111	2
	Top cover for outlet skirt	92050530	11,3	92050112	12,5
	Side plate 1.0 m	92050187	6,6	92050187	6,6
	Side plate 2.0 m	92050188	11	92050188	11
	Cover 0.5 m	92050532	6,3	92050333	6,8
	Cover 1.0 m	92050533	12,7	92050300	13,5
	Cover 2.0 m	92050534	24,4	92050301	27
	Cover plate 0.5 m from rear side	92050535	3,8	92050341	4,5
	Cover plate 1.0 m from rear side	92050536	7,5	92050321	8,8
	Cover plate 2.0 m from rear side	92050537	15	92050311	17,5

	Description	BCB 60 part no.	Weight kg	BCB 80 part no.	Weight kg
	Movable discharge unit	92050512	100	92050196	160
	Side guide roller with bracket	92050194	0,5	92050194	0,5
	Collection hopper for outlet skirt 240 x 240 / 300 x 300	92050531	13	92050323	14

Weight table – belt conveyor BCB 60/BCB 80

Complete with drive station, tension section, extensions, belt, discharge unit and worm geared motor.

Important! Weight incl. discharge unit only above 15 m to 50 m.

Length in metres	BCB 60		BCB 80	
	kW	kg	kW	Kg
5,0	2,2	304,5	2,2	349,0
6,0	2,2	333,0	2,2	384,0
7,0	2,2	361,5	2,2	419,0
8,0	2,2	390,0	2,2	454,0
9,0	2,2	418,5	2,2	489,0
10,0	2,2	447,0	2,2	524,0
11,0	2,2	475,5	2,2	559,0
12,0	2,2	504,0	2,2	594,0
13,0	2,2	532,5	2,2	629,0
14,0	2,2	561,5	2,2	664,0
15,0	2,2	689,5	2,2	865,0
16,0	2,2	718,0	2,2	900,0
17,0	3,0	746,5	2,2	935,0
18,0	3,0	775,0	2,2	970,0
19,0	3,0	803,5	2,2	1005,0
20,0	3,0	838,0	2,2	1040,0
21,0	3,0	866,5	2,2	1075,0
22,0	3,0	895,0	3,0	1110,0
23,0	3,0	923,5	3,0	1145,0
24,0	3,0	952,0	3,0	1180,0
25,0	3,0	980,5	3,0	1215,0
26,0	3,0	1009,0	3,0	1250,0
27,0	4,0	1037,5	3,0	1285,0
28,0	4,0	1066,0	3,0	1320,0
29,0	4,0	1094,5	3,0	1355,0
30,0	4,0	1123,0	3,0	1390,0
35,0	4,0	1265,5	3,0	1565,0
40,0	2 x 2,2	1448,0	4,0	1747,0
45,0	2 x 3,0	1590,0	4,0	1922,0
50,0	2 x 3,0	1733,0	4,0	2097,0
55,0	2 x 3,0	1876,0	2 x 2,2	2272,0
60,0	2 x 3,0	2019,0	2 x 3,0	2492,0
65,0	2 x 4,0	2162,0	2 x 3,0	2667,0
70,0	2 x 4,0	2305,0	2 x 3,0	2842,0
75,0	2 x 4,0	2448,0	2 x 3,0	3017,0
80,0	2 x 4,0	2591,0	2 x 3,0	3192,0
85,0			2 x 3,0	3367,0
90,0			2 x 4,0	3542,0
95,0			2 x 4,0	3717,0
100,0			2 x 4,0	3892,0

Assembly

Please check the foundation and the travel direction (location of inlet and outlet) before starting the assembly.

It is important to read these instructions carefully before starting the assembly.

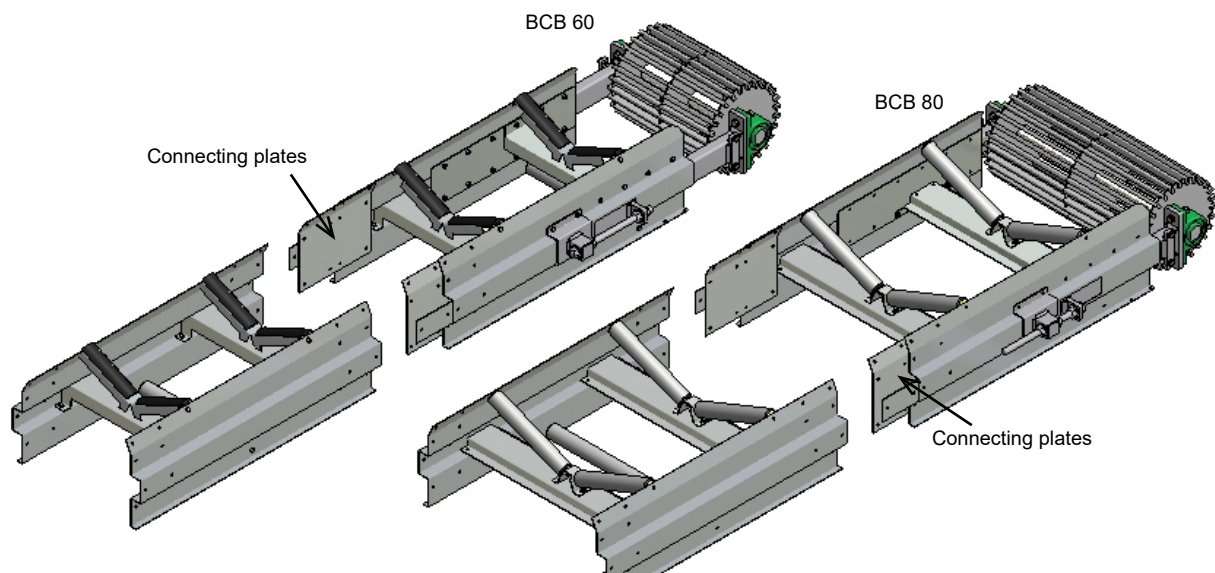
Check that there is sufficient space.

Attention!

Before starting the assembly work, check that the required safety equipment is available, e.g. work gloves, safety footwear, helmet, safety glasses and a lifeline, if necessary. These parts are not included as standard.

Drive station & Tension station

Assemble the drive station and tension section with extension by means of the connecting plates and the enclosed fasteners.



Extensions

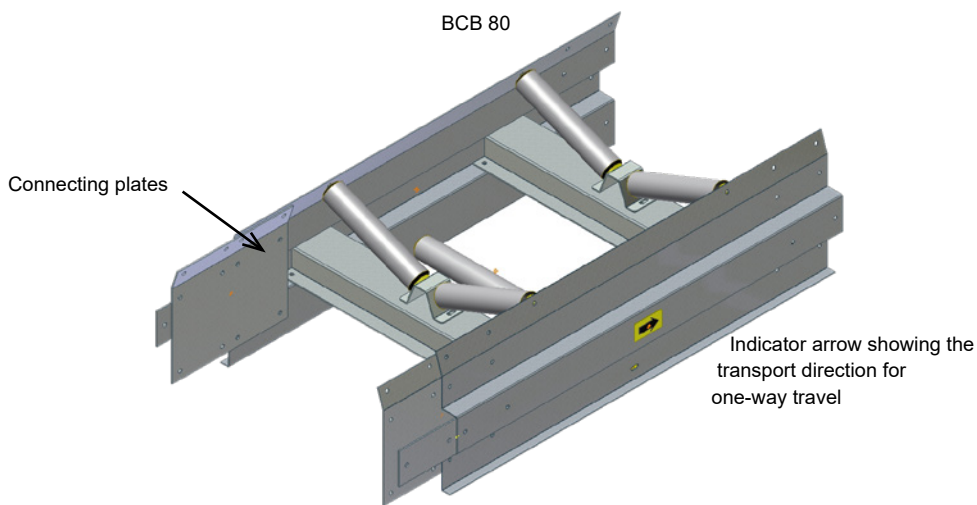
As shown in the drawing the extensions are assembled and fitted by using the connecting plates and the enclosed hardware.

The conveyor must constantly be secured during the assembly – see section “Attachment”.

BCB 80

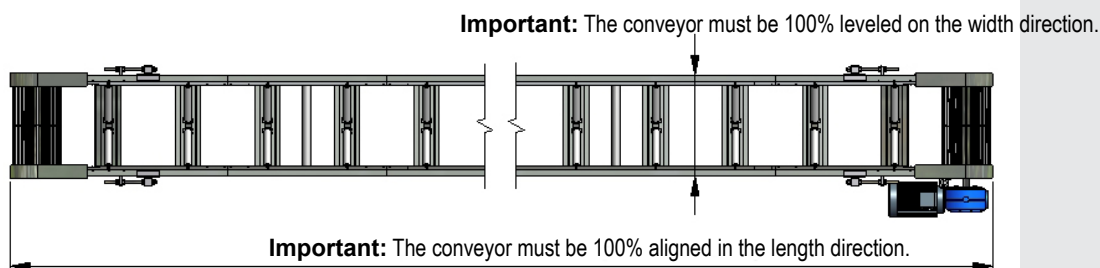
Extensions that are designed for one-way transport have an indicator arrow, which shows the travel direction (the top track roller is fitted for one-way transport).

Extensions designed for transport in both directions do not have this arrow (the top track roller is fitted for transport in both directions). – ref. page 26.



BCB 80

For transport in both directions the belt conveyor must be equipped with edge guide rollers.



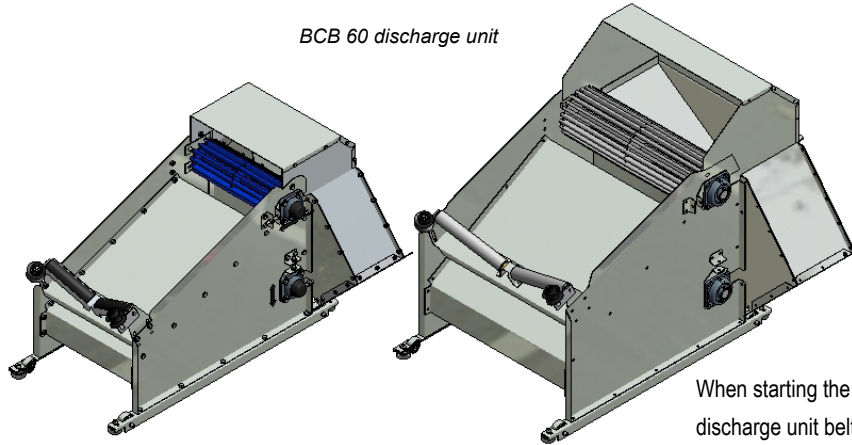
Movable discharge unit

If the belt conveyor is required with discharge unit, this must be fitted.

BCB 80 discharge unit

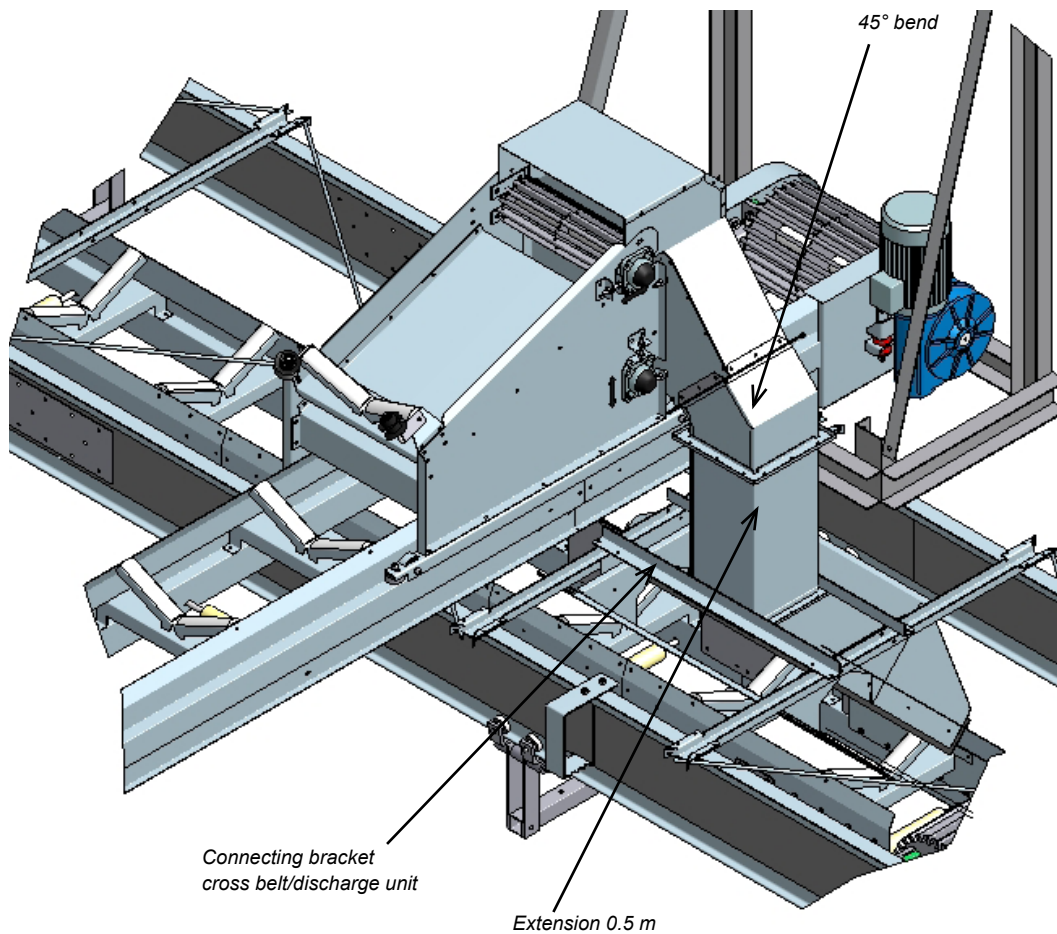
BCB 60 discharge unit

Adjust the discharge unit
lift rolls/sliding profiles
before starting the belt
conveyor in order to support
the belt by a light
pressure



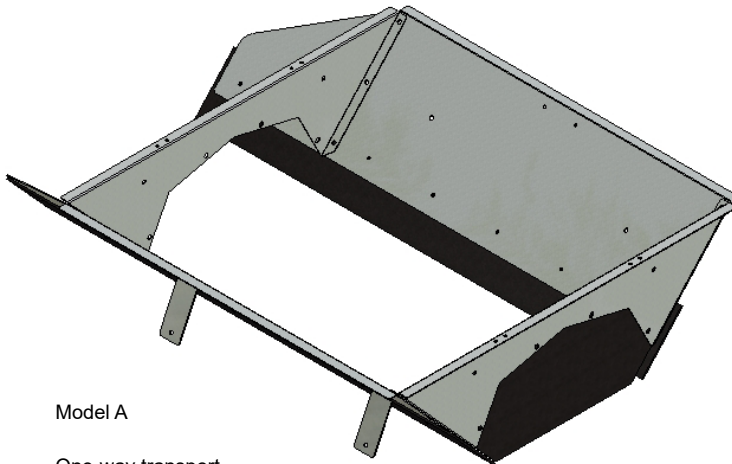
When starting the conveyor, adjust the
discharge unit belt drums horizontally
and vertically in order to centre the belt
during travel

Fitting of discharge unit to cross belts (see drawing)



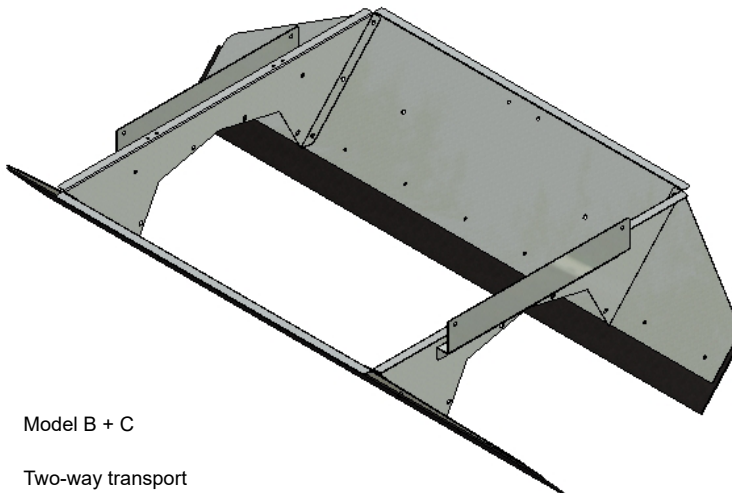
Inlet trough

Two types of inlet hoppers can be fitted to the belt conveyor.



Model A

One-way transport



Model B + C

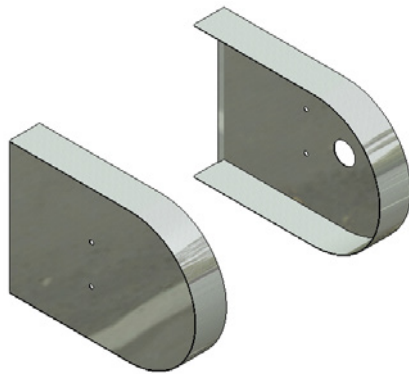
Two-way transport

Belts, return rollers & guards

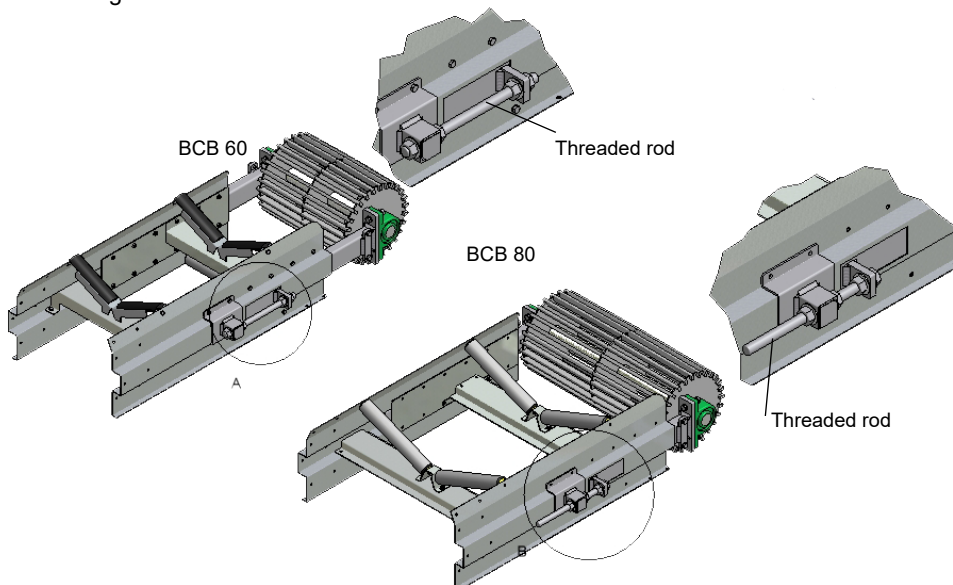
The belt can be ordered pre-vulcanised from the factory for conveyor belts without movable discharge unit and at a max. length of 12 m. The threaded rods on the drive- and tension sections can be used to place the drive and tension drums in the innermost position.

Dismantle the return rollers and fit the pre-vulcanised belt by pushing it above the drums on the drive and tension sections. Refit the return rollers, when the belt is in place. Start with the rollers in the drive and tension sections and then fit the rollers on the extensions.

Fit the scrapers, guards, baffle plates and outlet skirt.



Conveyor belts with a length above 12 m or with movable discharge unit cannot be ordered with pre-vulcanised belts. In this case the belt must be vulcanised by trained staff at the premises. Before the belt is vulcanised, the threaded rods on the drive and tension sections must be adjusted so the rolls are in the inner position. In order to obtain the correct belt length, when the conveyor is equipped with discharge unit, the belt must be tightened, so that it does not come into contact with the extension lift rolls/sliding profiles the last 3 m to the discharge unit. Fit guards and inlet trough.



Tighten the belt and adjust it, so it runs centrally on the rollers/sliding profiles. Tighten the belts with the threaded rods on the sides of respectively the drive and the tension section.

Motor

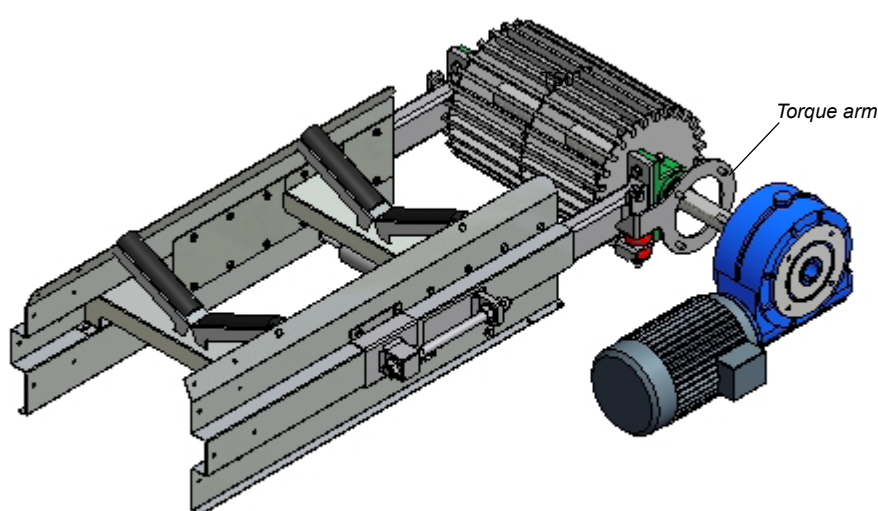
Fit the gear and motor on the drive shaft and connect it to the torque arm – see below drawing.
The engine can be fitted in parallel or transversely on the machine.

Important!

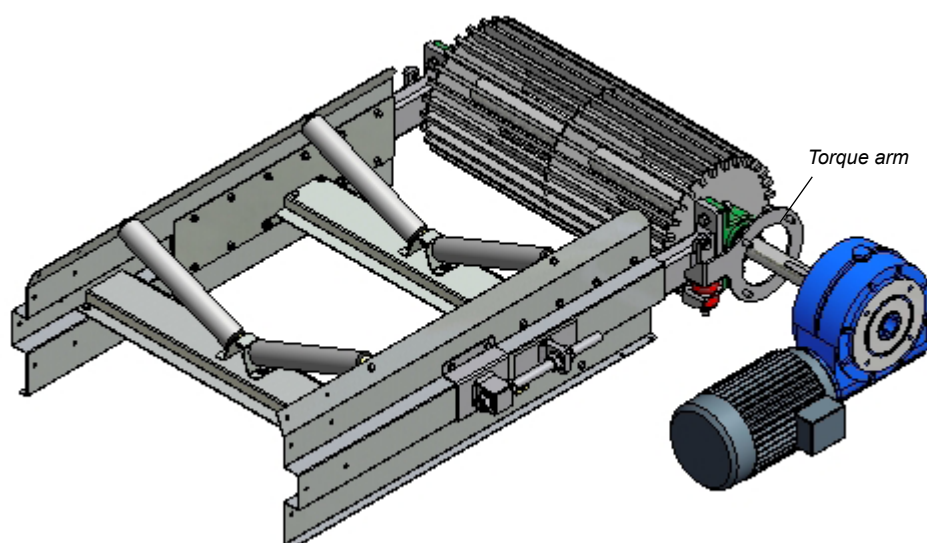
The ventilation screw on the gear must always be fitted in the top position.

For maintenance of motor and gear, please see the attached supplier documentation.

BCB 60

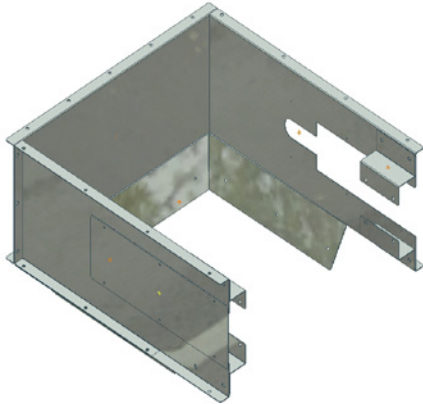


BCB 80

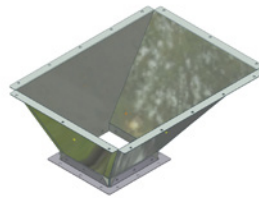


Outlet skirts

It is possible to fit outlet skirts at the end of the drive or tension section.



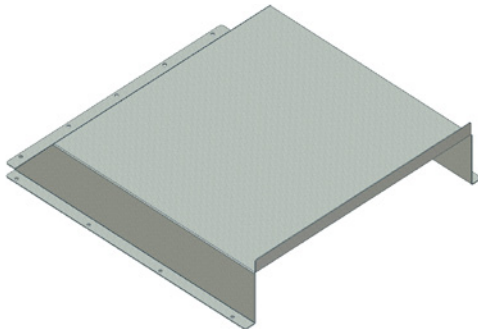
Outlet skirt without top part



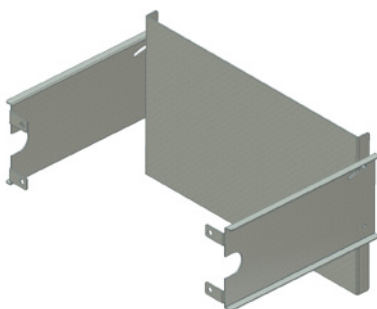
Collecting hopper for outlet skirt



Raised edge for outlet skirt



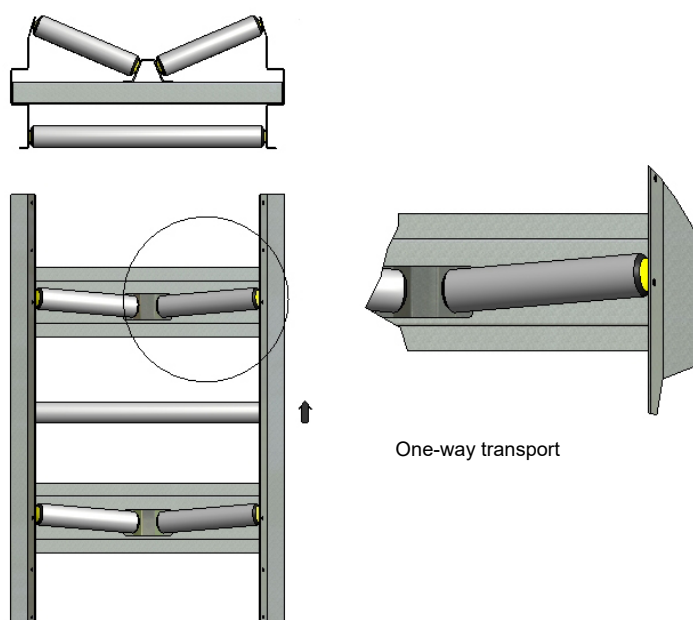
Top guard for outlet skirt



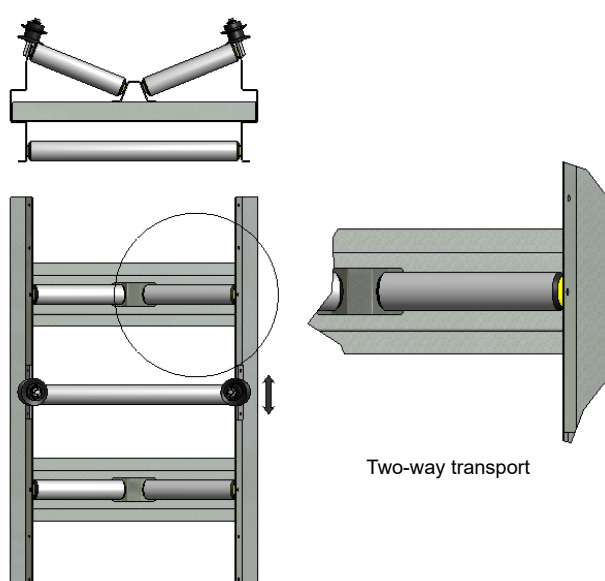
Baffle plate

Track rollers BCB 80

For one-way transport the top track rollers are fitted in an inclined position, which keeps the belt automatically centered on the rollers. Please note that extensions with non-level track rollers are marked with indicator arrows to indicate the travel direction.

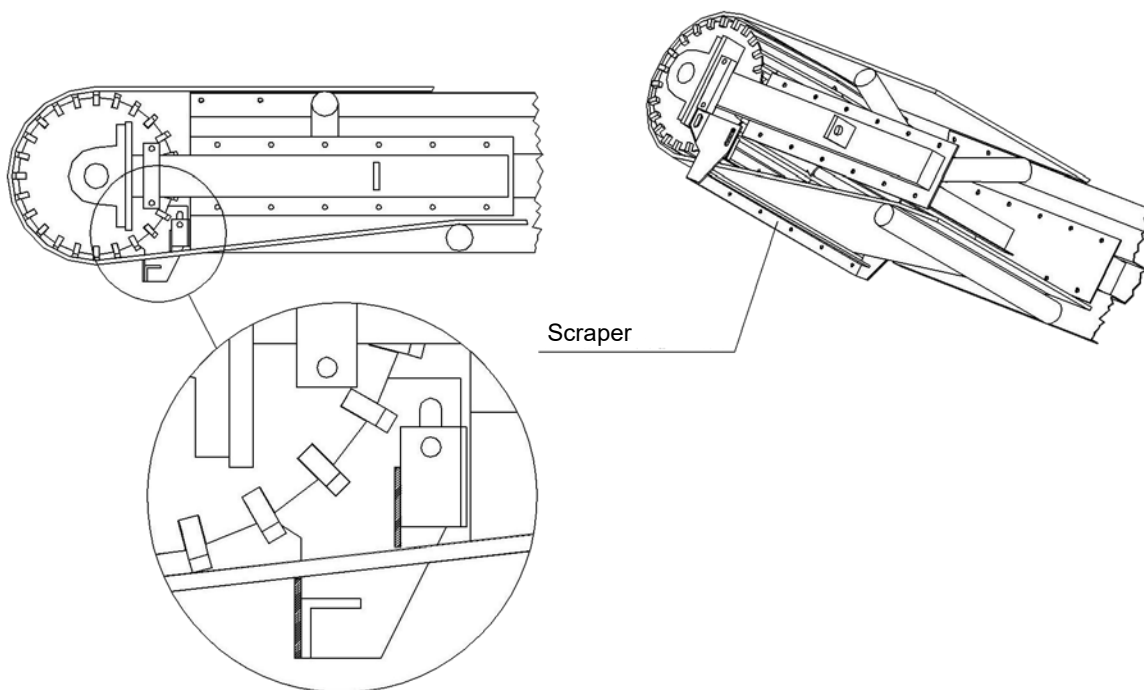


For two-way transport the upper track rollers are fitted in straight, parallel lines, and as a result the belt does not automatically stay centered on the rolls. To keep the belt centered it is necessary to fit side guide rolls on each side 1.0 – 1.5 m from the drive and tension roll. The guide rolls are fitted between these rolls in pairs with a distance of max. 8.0 m.



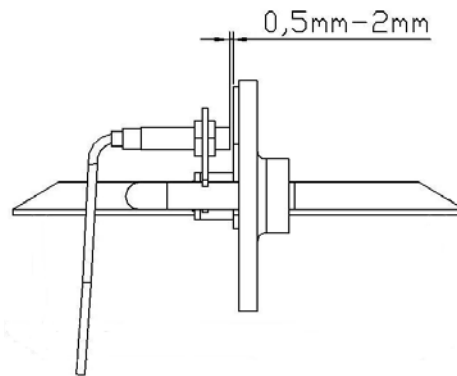
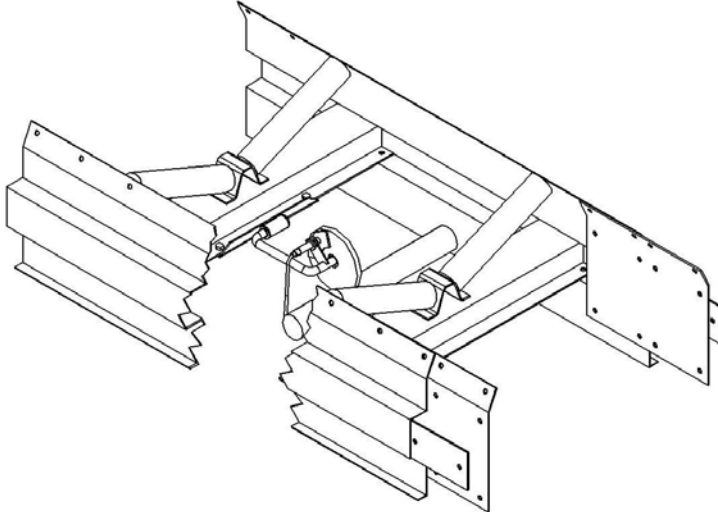
Scrapers

Fit scrapers, if required, so they just touch the belt slightly (see drawing)



Speed monitor

Fit the roller sensor for speed control in any location between the belts on the lift rollers/sliding profile cross member.



For relay control use inductive proximity sensor. DJ2G (2 wires)

For PLC control use inductive proximity sensor. JA 12 DSF 02 PO (3 wires)

Normally the speed monitor will be assembled and adjusted from the factory.

For later instalment there must be a distance between the sensor area on the wheel and the sensor of min. 0.5 mm and max. 2 mm.

Fit the roller sensor in any location between the belts on the lift rollers/sliding profile cross member.

Upstart with relay control:

Start the system and carefully adjust the relay control switch down, until the operating current is disconnected and the belt stops.

Then adjust the switch approx. 5% up to create a safety margin.

The lowest level corresponds to approx. 2.6 m/sec. and the highest to approx. 0.13 m/sec.

For systems with PLC control the above setting is pre-programmed in the PLC.

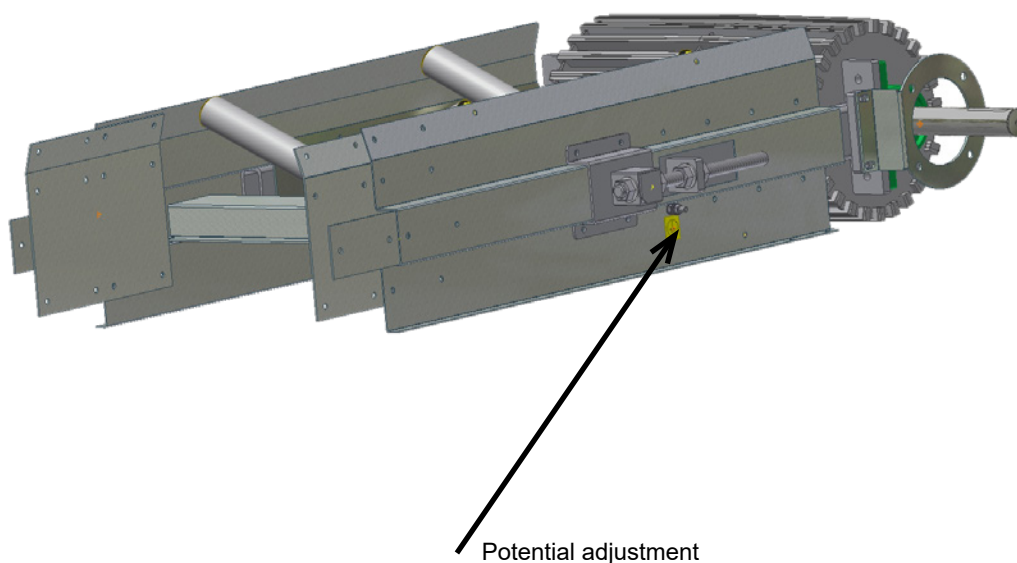
See diagram on page 39.

Potential adjustment

The potential adjustment must be carried out according to current regulations.

A label on the BCB 60/BCB 80 drive station indicates the point of the belt conveyor potential adjustment.

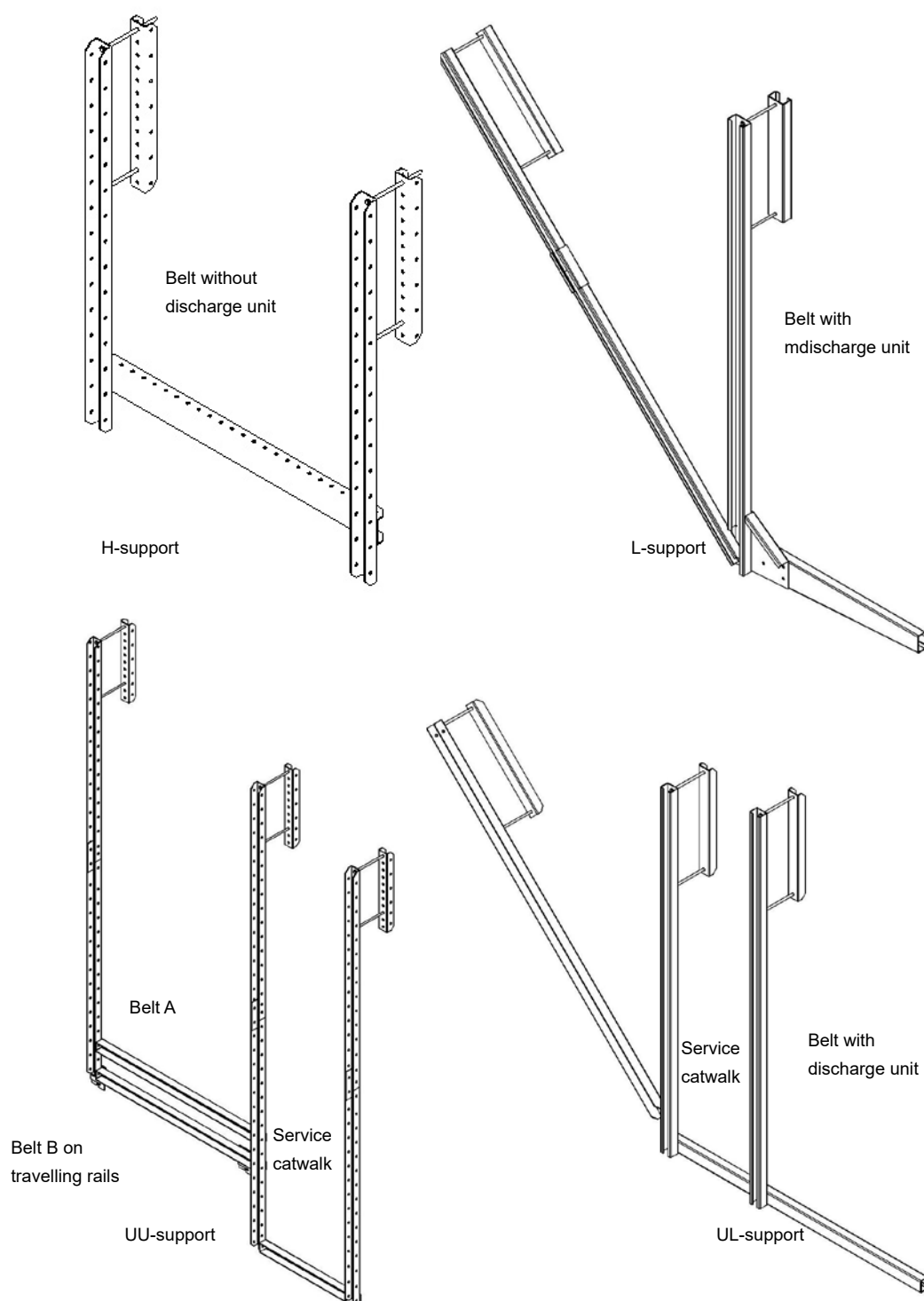
The label indicates the potential adjustment point for the belt conveyor.



Fitting

In order to obtain the maximum stability, it is important to attach the belt conveyor. There must be a distance of max. 6.0 m between the fixation points.

Regarding the attachment of the belt conveyor, there are various possibilities – see drawings below.



Starting up

Before starting to work with the belt conveyor, please check the following:

- Nobody is working on or near the machine.
- The motor rotation direction is correct.
- All conveyor bolts are correctly fitted and tightened.
- The belt is correctly fitted and adjusted.
- The attachment and stability of the belt conveyor is correct.
- Check the belt conveyor attachment/stability.

Belt conveyor stops – fault finding

If the belt loses speed, and the speed monitor disconnects the entire system, check whether the belt is sufficiently tightened and adjust if necessary. The belt tension is correct, if the belt starts up immediately at full speed.

In case of stops, check first whether the conveyor is able to start again, when the relay has gone cold. If yes, the fault is either caused by too low adjustment of the relay or lack of motor capacity.

If the conveyor is still not able to start without being emptied of material, check whether the drain system has been blocked.

Maintenance

Please see the maintenance summary and the attached supplier documentation for cleaning- and maintenance intervals.

Warning!

- During cleaning and maintenance work, the electric supply for the belt conveyor must be disconnected and secured against accidental reconnection.
- After repair and maintenance the inspection doors and shields must be refitted before the work is continued.

Always use original parts only

In case that original parts are not used, the warranty becomes void, and JEMA AGRO A/S can no longer be held liable for the EU Declaration of conformity.

Geared motor

Check the gear as described in the attached supplier documentation.

Important!

Check that the ventilation screw is fitted in the top position on the gear.

Motor

Bearing noise from the motor: please see the attached supplier documentation.

Motor inspection: please see the attached supplier documentation.

Retorque the motor as indicated in the maintenance summary. Please see the assembly guidance for instructions.

Bearings.

Check the bearings for wear/becoming loose, and lubricate as described in the maintenance summary.

Check for wear/becoming loose by lifting up the shaft and control manually.

Lubrication of bearings

Important!

It is extremely important to use the correct amount of grease, as too much will damage the sealing of the bearing, which will result in leaks and subsequent overheating of the bearings.

Check the amount of grease per gun stroke.

Drive station

Lubricate the drive station bearings with 4.0 g grease in accordance with the maintenance instructions.

Tension section

Lubricate the tension station bearings with 4.0 g grease in accordance with the maintenance instructions.

Movable discharge unit

Lubricate the discharge unit bearings with 4.0 g grease in accordance with the maintenance instructions.

Conveyor belt

Check for belt cracks as described in the maintenance instructions.

If the belt loses speed, check whether it is tightened correctly, and adjust if necessary.

If the belt starts immediately at full speed, the tension is correct. The problem may then be caused by clogged material, which should be removed.

Speed monitor

Check the speed monitor according to the maintenance summary.

Leaks

All leaks must be repaired immediately.

Noise and vibrations

Stop the belt conveyor immediately and identify the problem.

Disposal

The methods of disposal must comply with the current local regulations

Warning!

The electric supply to the motor must be disconnected during the disassembly.

Disassemble the conveyor on the floor, if space allows, following the reverse order of the assembly procedure.

If the belt conveyor is disassembled at the premises, start by detaching the motor. The belt may be removed by cutting through the vulcanisation, which should then be removed and rolled up. Remove the drive- and tension section and the discharge unit. Finally detach all extensions.

The belt conveyor contains various parts that can be reused. All metal parts should be delivered to a recycle industry.

Options/accessories

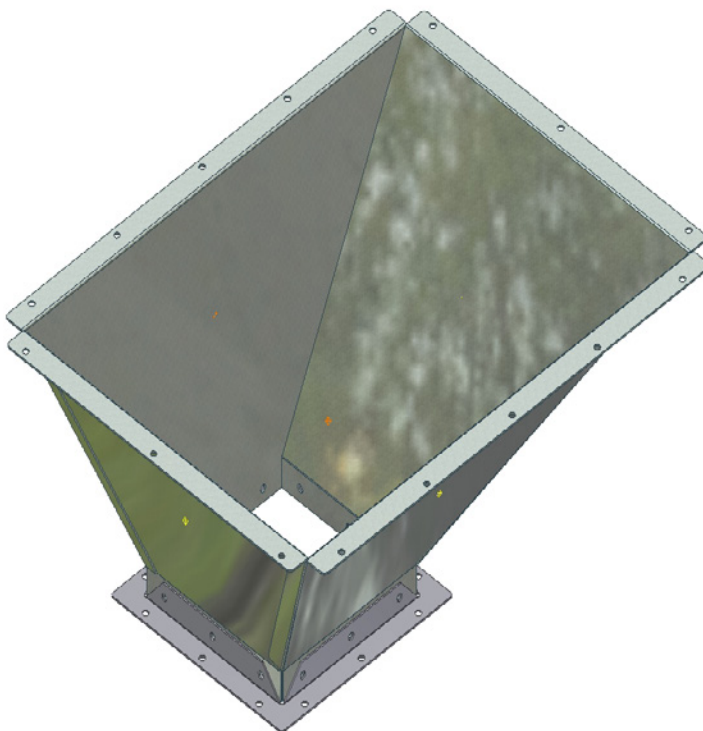
A range of options/accessories is available for the belt conveyor, for instance:

- Oil resistant belts
- Collector hopper for outlet skirt
- Top cover / cover plates
- Speed monitor
- El-cable pull

Collector hopper

Collector hopper for outlet skirt

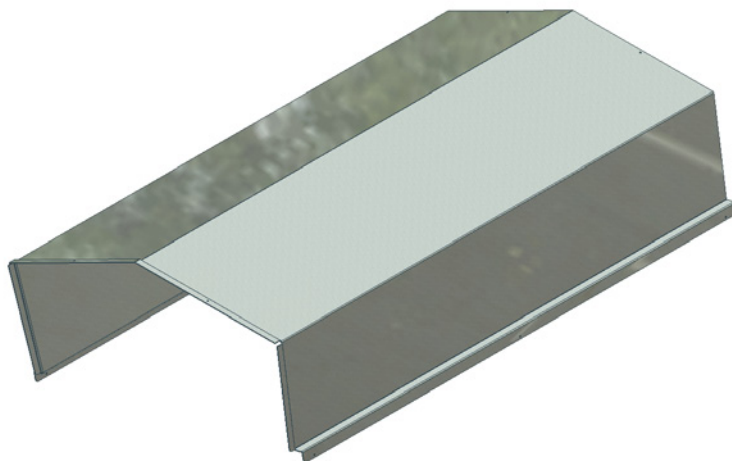
240 x 240 / 300 x 300



Top cover / cover plates

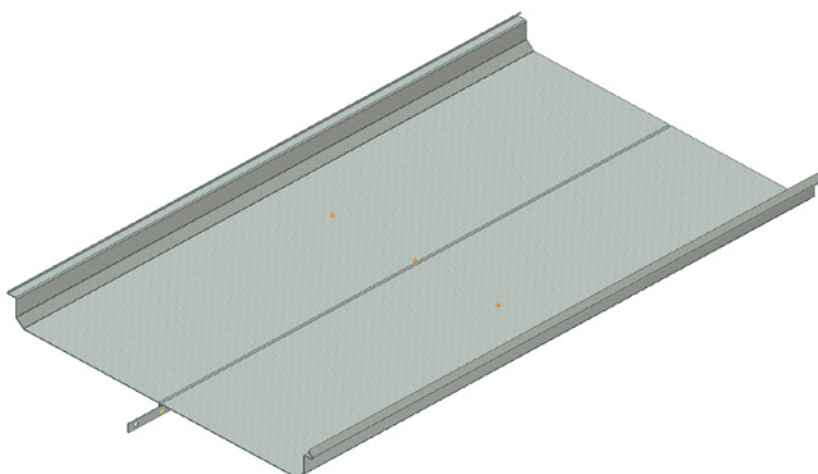
The top cover is available in following lengths:

0.5 m – 1.0 m and 2.0 m



Cover plates for bottom part is available in following lengths:

0.5 m – 1.0 m and 2.0 m



Speed monitor

The speed monitor can be fitted in any location in the total length of the machine.

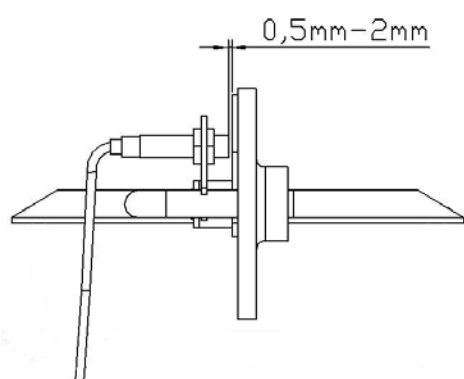
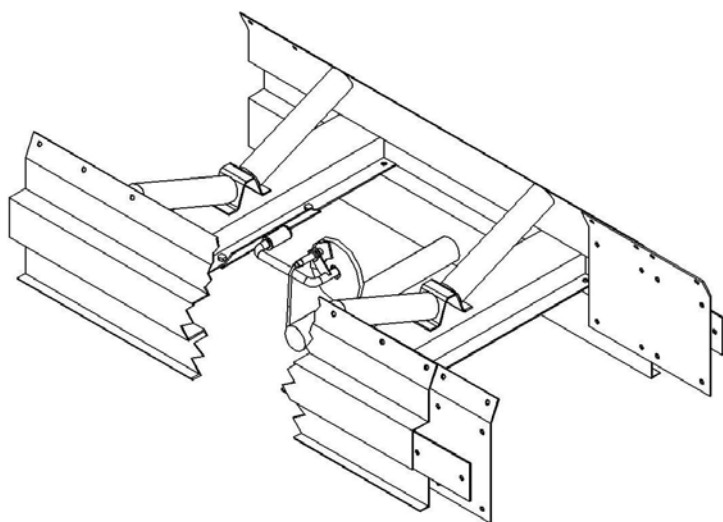
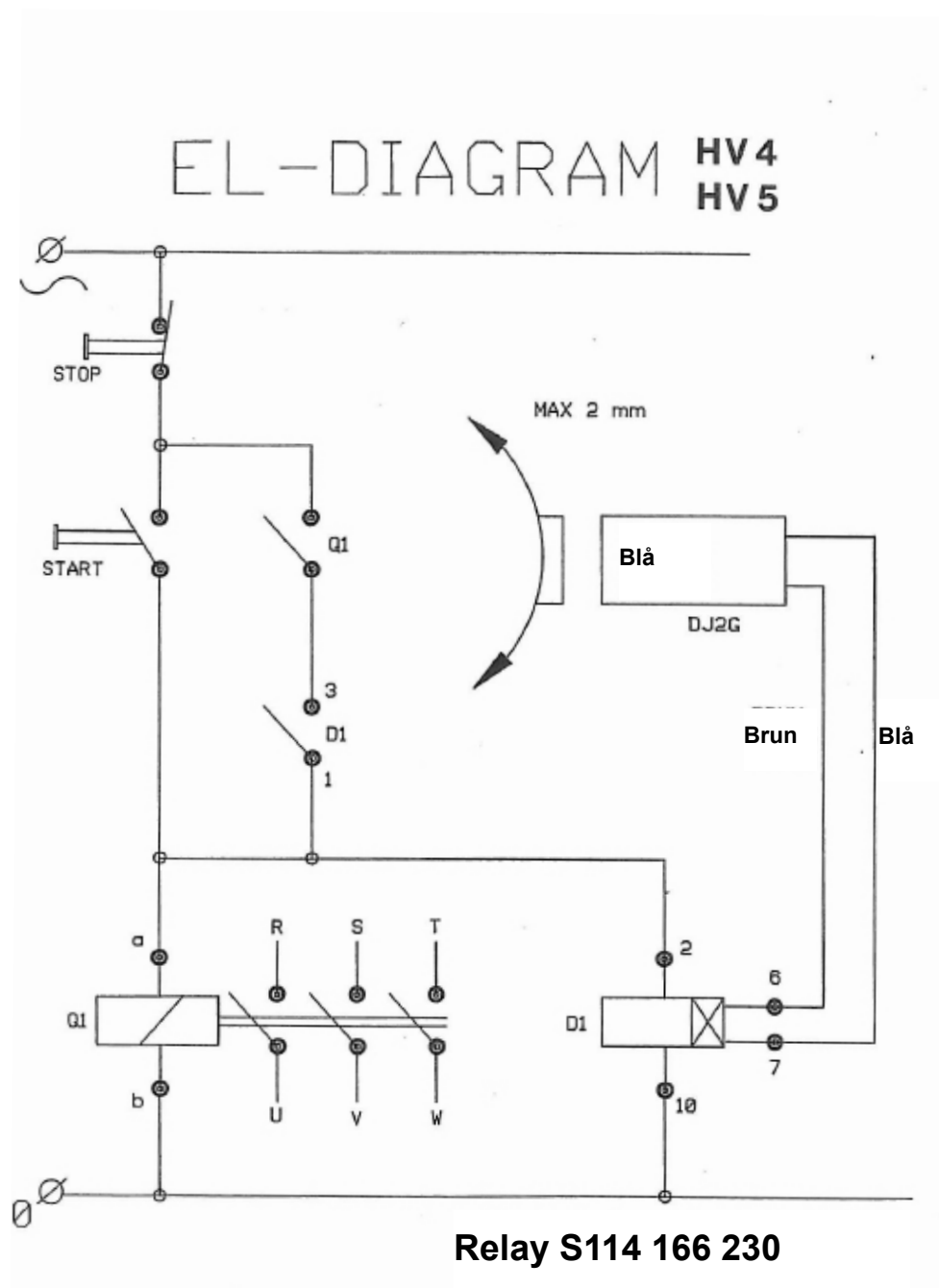


Diagram for relay control speed monitor

The inductive proximity sensor DJ 2G (2 terminals) is used with the relay control.

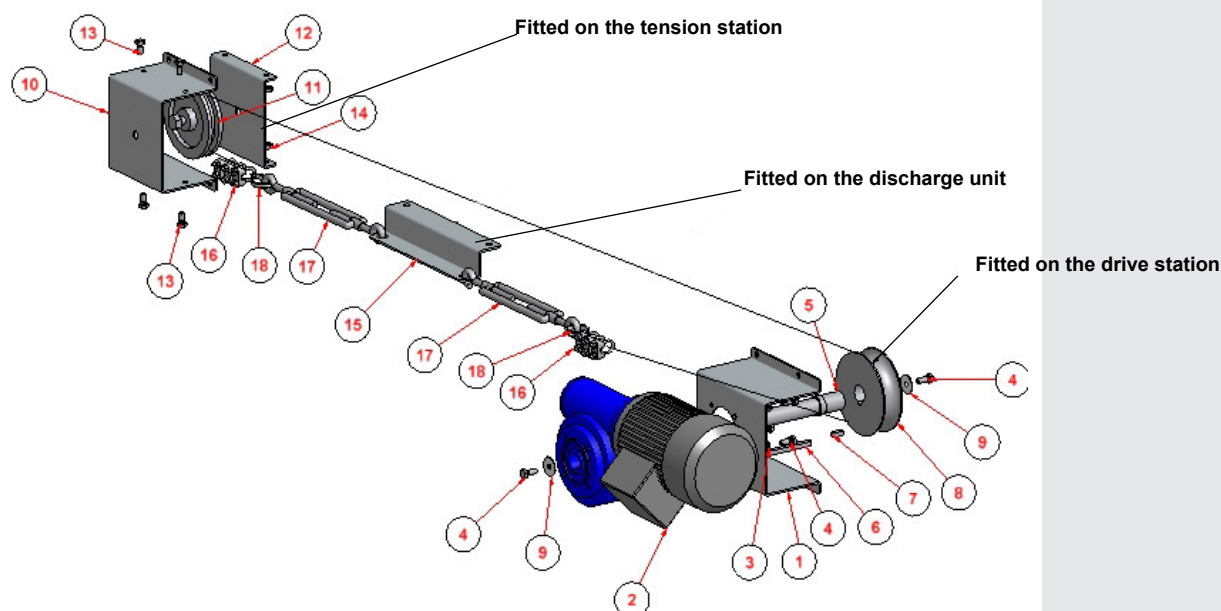


Location of the buttons under the brown plastic cover of the relay.



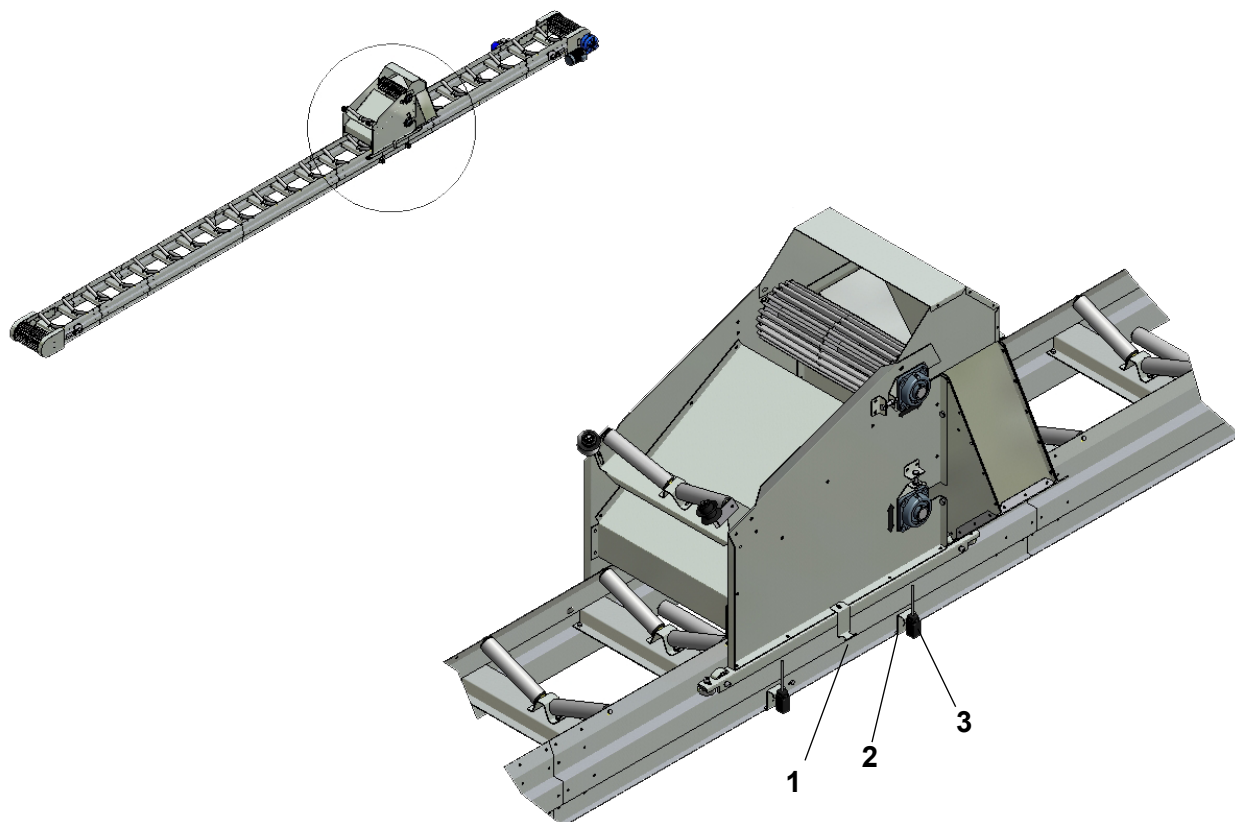
Electric cable pull for movable discharge unit

The conveyor belt can be fitted with an electric cable pull (see drawing)



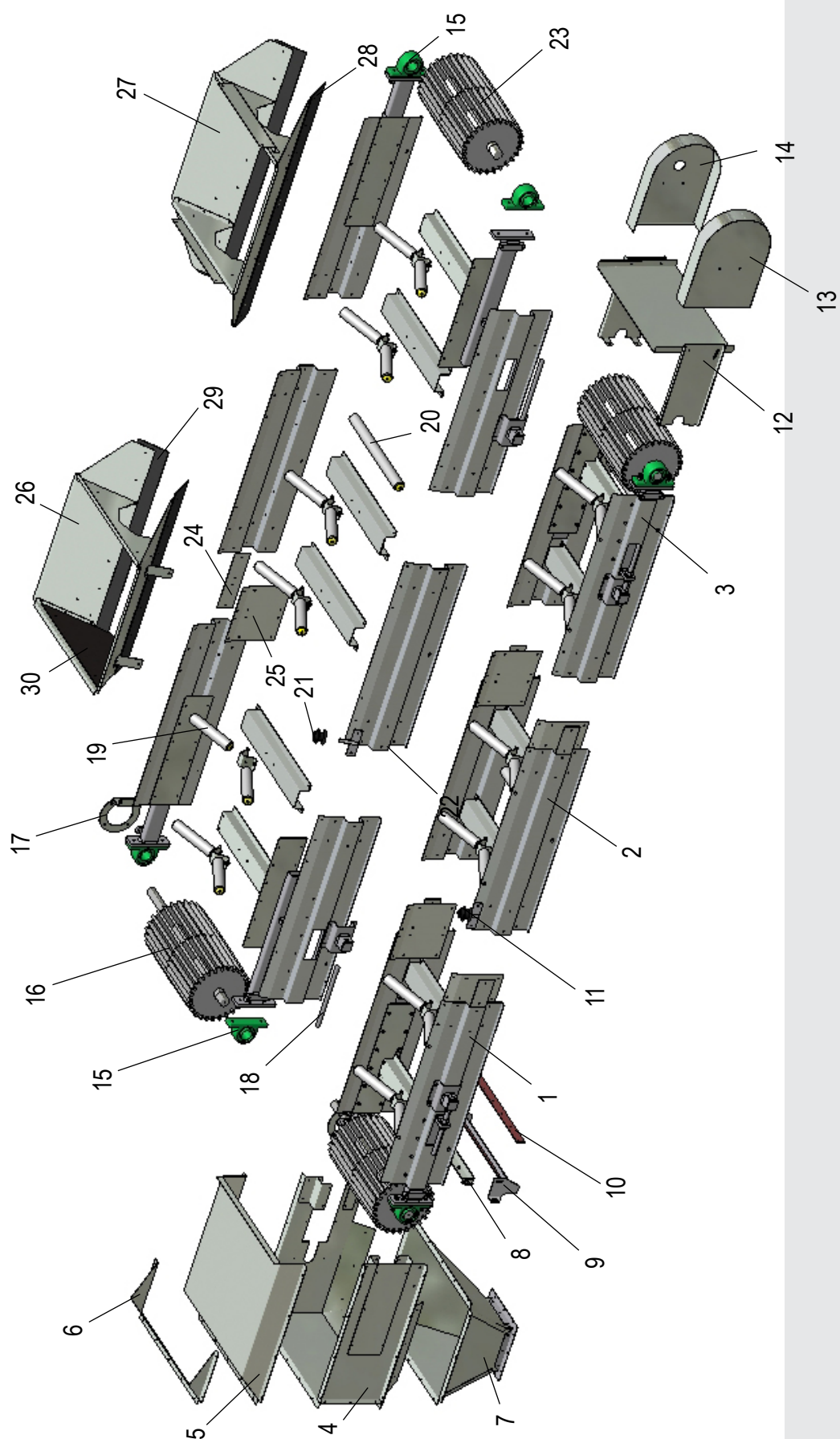
Pos.	Description	BCB 60	Kg	BCB 80	Kg
1	Drive wheel housing	92050347-1	1,490	92050347-1	1,490
2	Worm gear motor RMI 63 20 rpm	92081241	14,248	92081241	14,248
3	Spring washer M8 FZB	92087295	0,001	92087295	0,001
4	Steel set screw 8 x 20 FZB	92086179	0,014	92086179	0,014
5	Shaft for electric cable pull	92050350	0,648	92050350	0,648
6	Feather key 8x7x80	92087066	0,034	92087066	0,034
7	Feather key 8x7x20	92087056	0,008	92087056	0,008
8	Cable wheel for drive wheel d25	92033109	2,310	92033109	2,310
9	Disc guard d8xd30 FZB	92087308	0,006	92087308	0,006
10	Casing for cable reverse wheel	92050346-1	1,223	92050346-1	1,223
11	Cable reverse wheel	92083190	1,406	92083190	1,406
12	Spacer for housing	92050346-2	0,590	92050346-2	0,590
13	Steel set screw M8x16 FZB	92086177	0,012	92086177	0,012
14	Nut M8 FZB	92086606	0,005	92086606	0,005
15	Cable support angle bar	92050349	0,635	92050349	0,635
16	Cable clips for 5 mm cable	92092105	0,044	92092105	0,044
17	Threaded rod with ring and hook	92092106	0,457	92092106	0,457
18	Cable eye for 5 mm cable	92092107	0,001	92092107	0,001

Proximity sensor bracket for electric cable pull

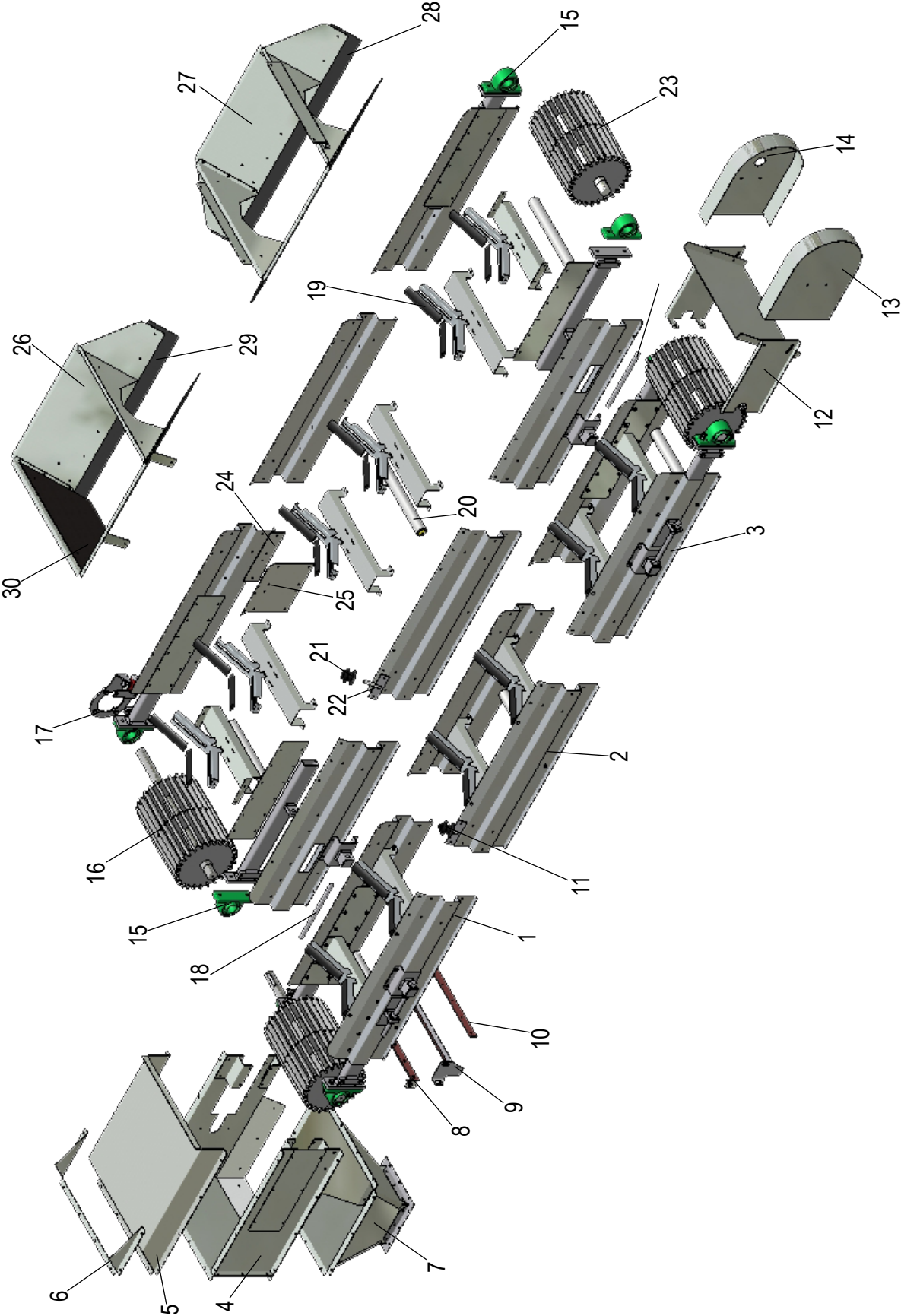


Pos.	Description	BCB 60	BCB 80	Quantity
1	Sensor bracket for switch	92019158	92019158	1
2	Bracket for switch for T51/T52 with discharge unit	92019157	92019157	2
3	Switch with whip	92088001	92088001	2

Parts BCB 80



Parts BCB 60

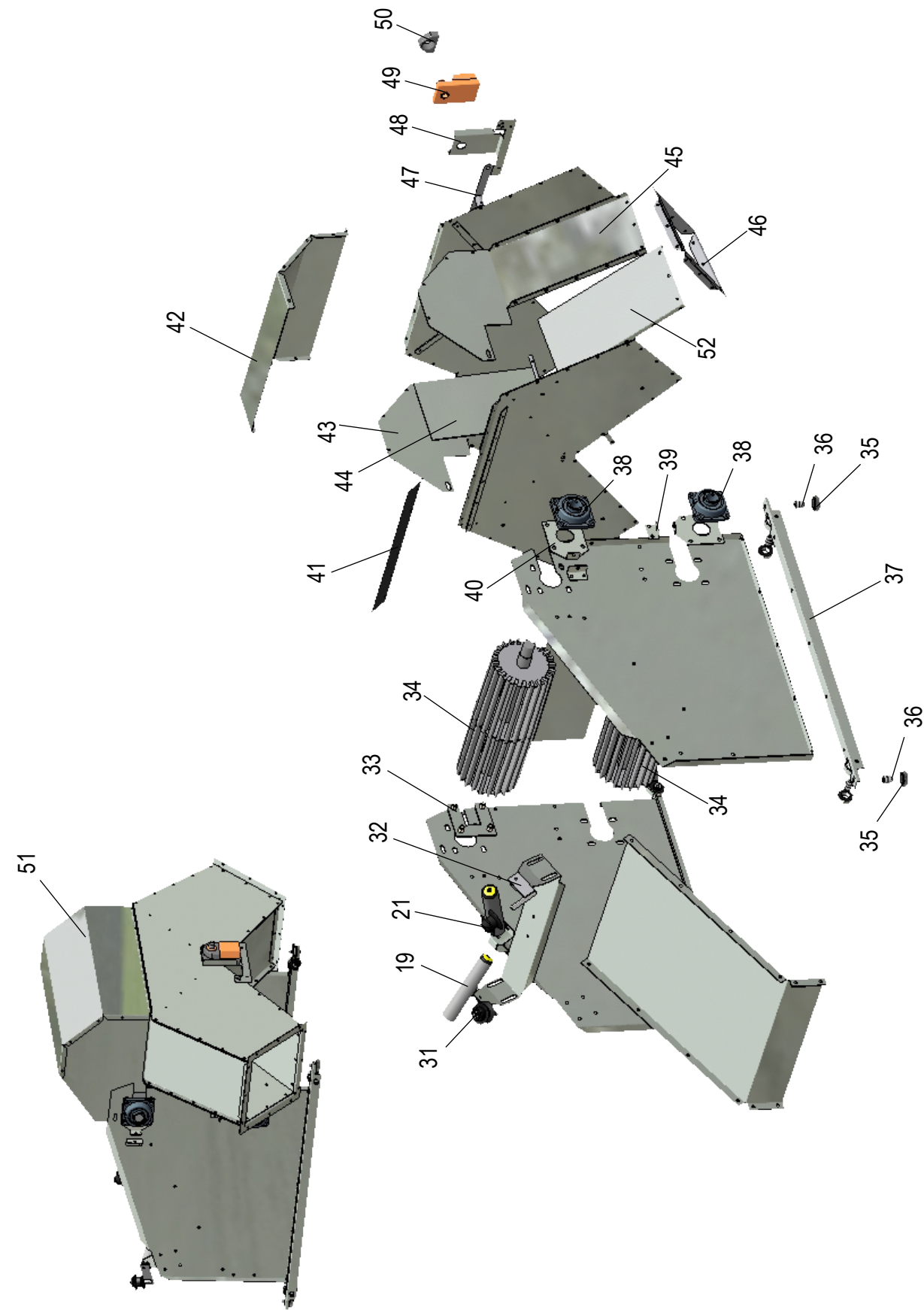


Parts list BCB 60/BCB 80

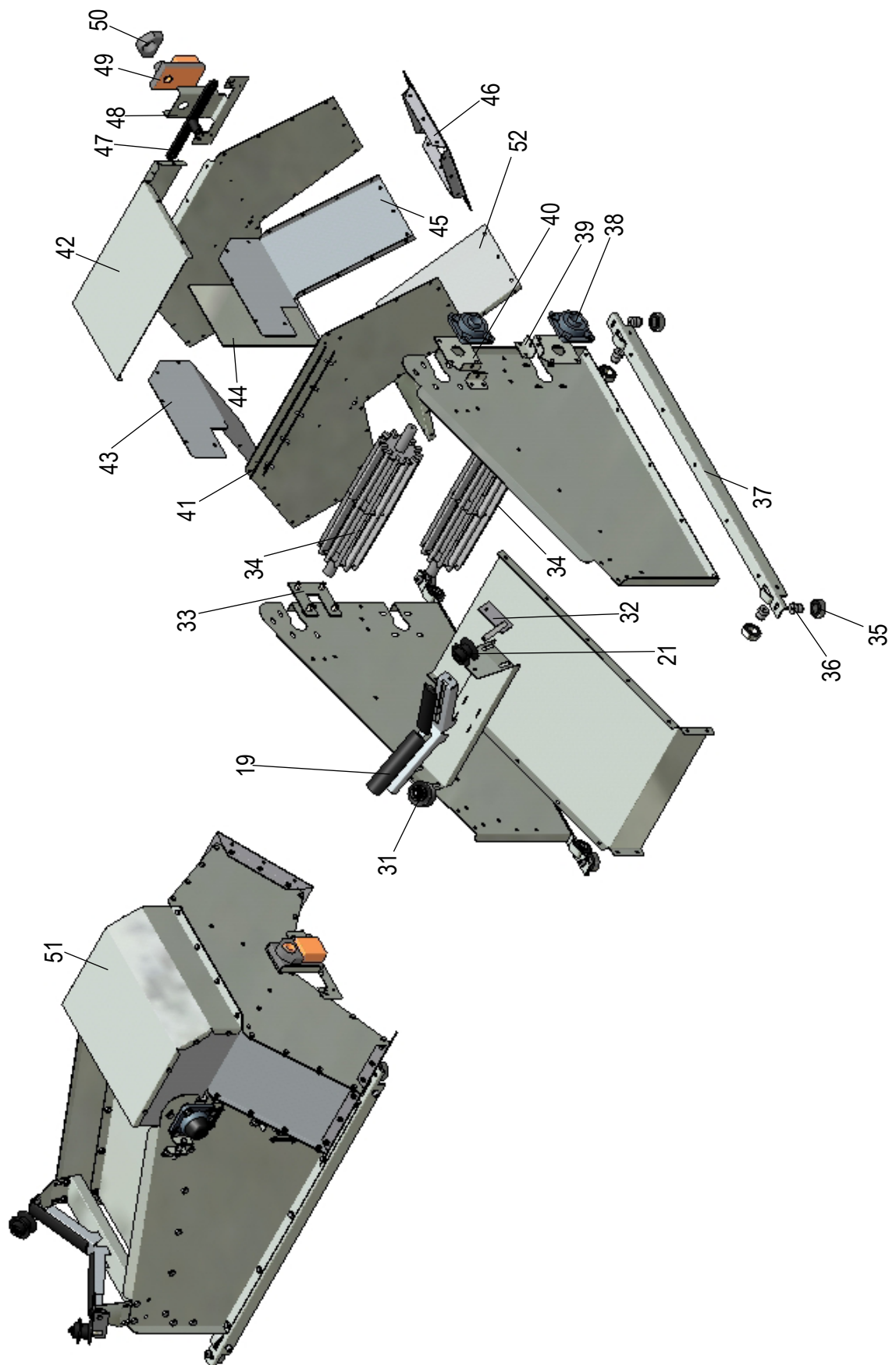
Pos.	Description	BCB 60	Kg	BCB 80	Kg
1	Drive station 1.0 m w/rollers d42, RHS	92050518	89	92050177	99
2	Extension 0.5 m, w/rollers	92050515	10,5	92050178	13
	Extension 1.0 m, w/rollers	92050516	19,5	92050175	24,5
	Extension 2.0 m, w/rollers	92050517	37,5	92050176	47,5
3	Tension section 1.0 m	92050520	83,5	92050174	95
4	Outlet skirt with top	92050527	17,4	92050110	18,5
5	Top cover for outlet skirt	92050530	11,3	92050112	12,5
6	Raised edge for outlet skirt	92050529	2	92050111	2,5
7	Collector hopper for outlet skirt	92050531	13	92050323	1,4
8	Belt scraper, internal	92050525	0,97	92050192	1
9	Belt scraper, external	92050524	1,48	92050191	1,6
10	Vulkolan for scraper	92050525-2	0,1	92050117	0,2
11	Side guide roller with bracket	92050194	0,4	92050194	0,4
12	Baffle plate for outlet, model C	92050526	11	92050103	12
13	Guard for drive- and tension section	92050491	3	92050491	3
14	Guard for drive station	92050492	3	92050492	3
15	Steel bearing UCP 209 d45 mm	92085128	0,5	92085128	0,5
16	Tension drum complete	92050504	34	92050232	40
17	Motor support	92050215	2,3	92050215	2,3
18	Threaded rod	92049538	0,8	92049538	0,8
19	Roller- PVC, short			92087375	0,4
	Sliding profile PEHD	92050514	0,1		
20	Roller-PVC, long	92087374	1,2	92087376	1,2
21	Roller for side guide	92050126-1	0,05	92050126-1	0,05
22	Bracket for side guide roller	92050118	0,3	92050118	0,3
23	Idler roller	92050505	31,6	92050275	37,5
24	Connecting plate, narrow	92050263	0,5	92050263	0,5
25	Connecting plate, wide	92050264	1,2	92050264	1,2
26	Inlet trough for model A	92050522	13,3	92050189	14,5
27	Inlet trough for model B+C	92050523	16,3	92050190	17,5
28	Rubber for inlet trough, model B+C	92050310	0,7	92050310	1
29	Rubber for inlet trough, model A	92050307	0,6	92050307	1
30	Rubber for inlet trough	92050308	0,4	92050308	0,5

When ordering parts, please state conveyor type (BCB 60/BCB 80 plus model A or B), and spare part number

Parts BCB 80 – Movable discharge unit



Parts BCB 60 – Movable discharge unit



Parts list BCB 60/BCB 80 - Movable discharge unit

Pos.	Description	BCB 60	Kg	BCB 80	Kg
19	Roller- PVC, short			92087375	0,4
	Sliding profile PEHD	92050514	0,1		
21	Roller for side guide	92050126-1	0,05	92050126-1	0,05
31	Side guide roller for discharge unit	92050356	0,4	92050356	0,4
32	Welded bracket for discharge unit side guide roller	92050356-2	0,3	92050356-2	0,3
33	Clamping iron for discharge unit	92050512-13	0,4	92050354	0,3
34	Drum for discharge unit	92050506	11,8	92050295	27
35	Ball bearing 6205-2RS	92085104	0,02	92085104	0,02
36	Trunnion	92083257	0,12	92083257	0,12
37	Driving rail for discharge unit	92050353-3	3,2	92050353-3	3,2
38	Ball bearing	92085130	1,06	92085135	1,4
39	Bracket, small for adjustment of discharge unit drum	92050351-2	0,08	92050351-2	0,08
40	Bracket, large for adjustment of discharge unit drum	92050512-11	0,3	92050351-1	0,35
41	Rubber belt for scraper	92050512-14	0,08	92050282	0,12
42	Shroud for discharge unit	92050512-9	4,26	92050287	5
43	Side plate for outlet LHS	92050512-16	2,5	92050286	4,91
44	Flap for two-way branch for discharge unit	92050513	2	92050290	2,4
45	Side plate for outlet RHS	92050512-15	2,5	92050288	4,91
46	Flange for two-way branch for discharge unit	92050294	1,4	92050294	1,4
47	Rocker arm for discharge unit kpl	92050359	0,7	92050359	0,7
48	Bracket for Belimo motor	92056147	0,5	92056147	0,5
49	Belimo damper motor 230V	92081021	1	92081021	1
	Belimo damper motor 24V	92081032	1	92081032	1
50	Switch set for Belimo	92081033	0,2	92081033	0,2
51	Discharge unit	92050512	100	92050196	160
	Discharge unit 230 V	92050538	101.5	92050201	161,5
	Discharge unit 24 V	92050539	101.5	92050202	161,5
52	Shroud for two-way branch for discharge unit	92050512-7	3,11	92050289	5,81

When ordering parts, please state conveyor type (BCB 60/BCB 80 plus model A or B), and spare part number.

Kongskilde Industries A/S

Skælskørvej 64

DK - 4180 Sorø

Tel. +45 72 17 60 00

mail@kongskilde-industries.com

www.kongskilde-industries.com