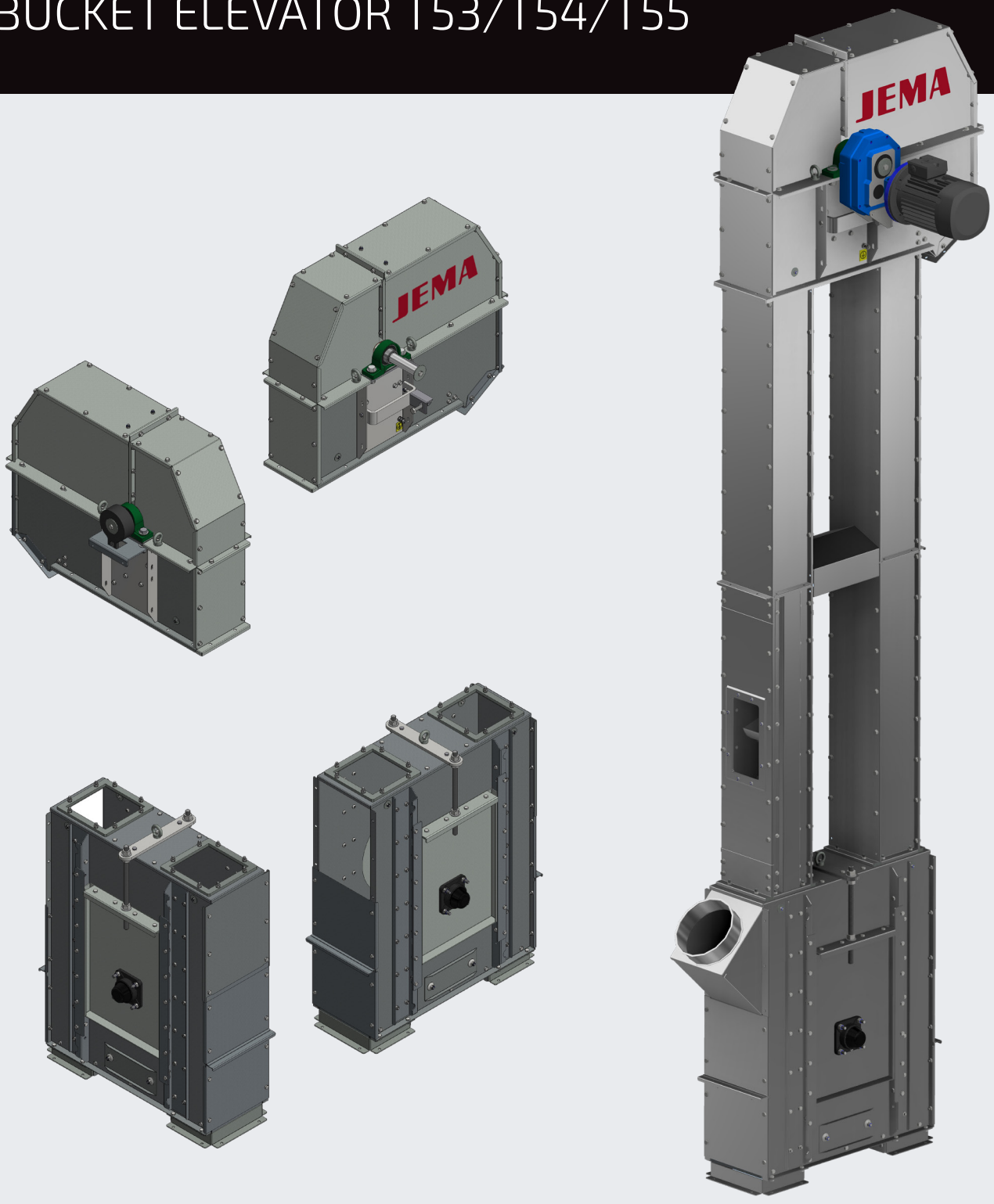
JEMA

ENGINEERING GRAIN HANDLING TOGETHER

Version 70505.2

MANUAL
BUCKET ELEVATOR T53/T54/T55



Jema Agro A/S · Kløservejen 2, Sahl · DK-8850 Bjerringbro · Tel.: +45 8668 1655

www.jema.as

Contents

Introduction

JEMA AGRO A/S is a modern factory, which specializes in producing and delivering equipment for transport systems for grain, seeds and granulates.

Our current product range is the result of more than 50 years experience in machine development especially for the agriculture in close collaboration with our customers – and our company is highly regarded in the industry due to the quality and versatility of our products.

JEMA AGRO A/S conveyors and transport systems are compatible with ALL types of dryer- and silage systems.

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: Bucket elevator
Type: T53/T54/T55
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
04-12-2008	
Date	Signature

Conditions of use

JEMA AGRO A/S bucket elevators T53/T54/T55 have been constructed for transport of grain, granular materials and seed mix.

- Bucket elevators T53/T54/T55 can only be used for the product(s) specified in the contract.
- The electrical connections must be done by a qualified electrician.
- The bucket elevators T53/T54/T55 must be potential adjusted in accordance with the current local regulations
- The bucket elevator 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 JEMA AGRO conditions for a trouble-free operation cease to exist and the warranty will be invalid.
- During installation, maintenance or repair the electric supply to the bucket elevator must be disconnected and secured against accidental reconnection.
- The user manual must be kept / be available in close proximity to the bucket elevators T53/T54/T55.

General information

Delivery

The bucket elevator 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 bucket elevator. The level has been measured in a distance of 1 m from the elevator surface and at a height of 1.6 m from the floor level. During the test the bucket elevator was without any load, which is the operational state of maximum noise level.

The measured noise level is below 70 dB

Type Plate

The type plated is fitted on the drive station.

Construction

The bucket elevator type T53/T54/T55 is built of standard elements that combined will easily fit into any grain conveyor system. The bucket elevator is characterised by its large capacity in spite of the compact exterior dimensions. All 3 elevators work equally efficiently and have – compared to their capacity (output) – low power consumption.

The bucket elevator is made of galvanized steel, which makes it very suitable for outdoor use. The elevator head and boot are fitted with heavy-duty bearings to secure a stable operation.

The bucket elevator consists of:

- Elevator head
- Elevator boot with spindles for belt tensioning
- Cleaning door in both sides and under the elevator boot
- Inlet piece on up-going side or down-going side
- Elevator belt with buckets
- 1.0 m extension with inspection door
- Extensions from 0.25 m to 2.5 m
- Spacer plates
- Torque arm
- Gear motor

Extra inlet piece is available

Capacity

The table below shows the various density capacities:

Density	T53		T54 (140 m³/h)	T55 (200 m³/h)
	(40 m³/h)	(80 m³/h)		
650 kg/m	**26 t/h**	**52 t/h**	**91 t/h**	**130 t/h**
700 kg/m	28 t/h	56 t/h	98 t/h	140 t/h
750 kg/m (wheat)	30 t/h	60 t/h	105 t/h	150 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

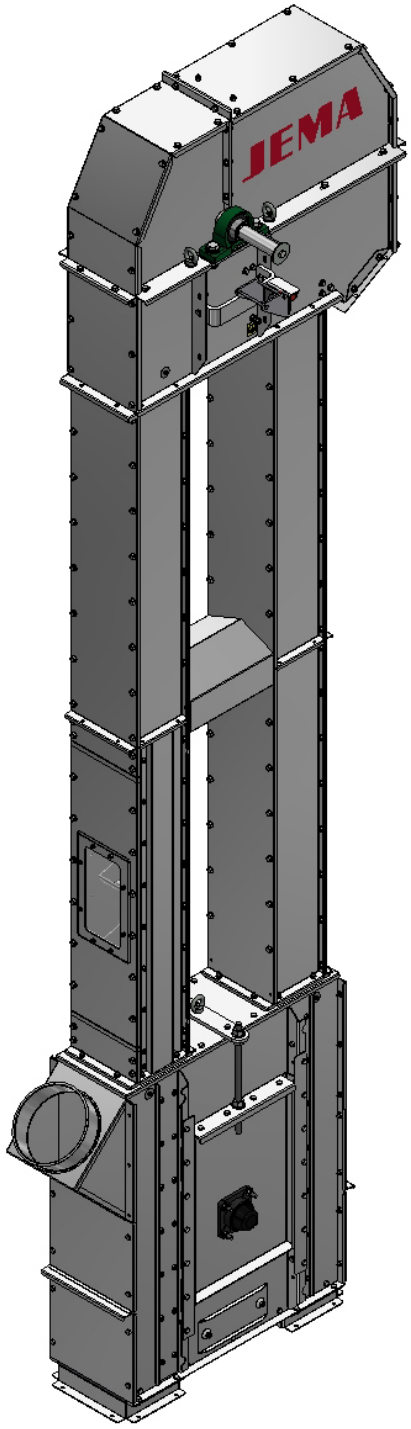
Bucket elevator T53/T54/T55 power consumption in kW:

	T53		T54	T55
	(40 m³/h)	(80 m³/h)		
2,2 kW	0 - 16 m.	0 - 3 m.		
3,0 kW	17 - 26 m.	4 - 8 m.		
4,0 kW	27 - 30 m.	9 - 15 m.	0 - 6 m.	
5,5 kW		16 - 24 m.	7 - 12 m.	0 - 5 m.
7,5 kW		25 - 30 m.	13 - 20 m.	6 - 10 m.
11,0 kW			21 - 30 m.	11 - 18 m.
15,0 kW				19 - 30 m.

Elevator head

The elevator head is delivered as a complete unit. The engine is delivered separately.

If the elevator head is equipped with a non return device, it will be fitted.



Elevator extension

The extension is available in different lengths:
2.5 m – 2.0 m – 1.0 m – 0.5 m – 0.25 m

The elevator extension with inspection door is only available for the 1 m. version.

The elements can be combined for various heights with 0.25 m intervals.

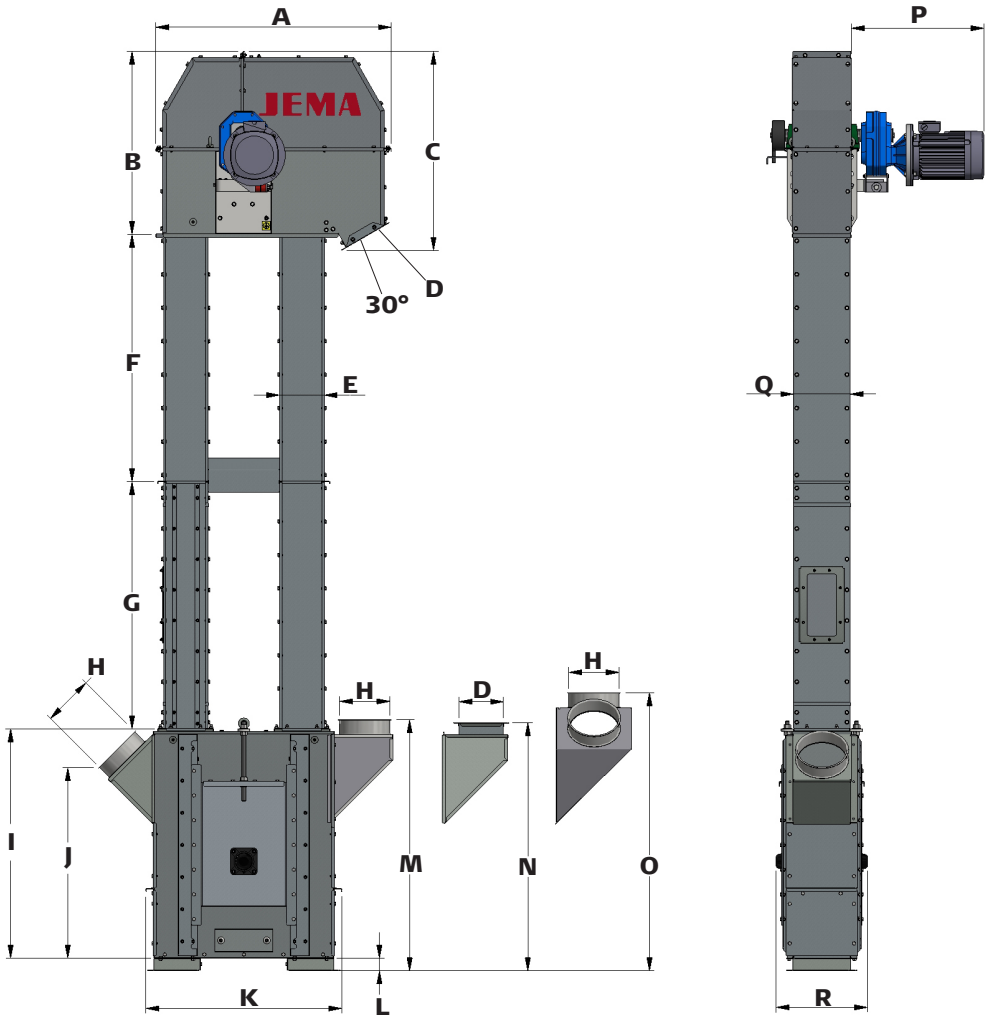
Elevator boot

The elevator boot is delivered with spindles for belt tensioning in both sides.
Inlet piece is delivered separately.

Scale drawing T53/T54/T55

	A	B	C	D	E	F	G	H	I	J	K	L
T53	953	740	907	180x180	180	2460 / 2000 / 1000 / 500 / 250	1000	SK200	979	821	792	51
T54	1368	1069	1291	240x240	240	2460 / 2000 / 1000 / 500 / 250	1000	SK250	1231	1030	1162	56
T55	1417	1069	1361	300x300	240	2460 / 2000 / 1000 / 500 / 250	1000	SK300	1231	1000	1162	56

	M	N	O	P 2,2 kW	P 3 kW	P 4 kW	P 5,5 kW	P 7,5 kW	P 11 kW	P 15 kW	Q	R
T53	1016	958-1075	1123	500	555	595	635				228	370
T54	1260	1200-1352	1488		625	675	715	790	835		304	463
T55	1260	1200-1352	1540		625	675	715	790	835	955	368	523



Upon receipt

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

NB: Check that the relevant supplier documentation is attached.

In case of missing documentation, please contact JEMA AGRO 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 bucket elevator is fitted with warning labels.

Warning!
The inspection door and shields must not be opened or removed, when the machine is working.

Foundation

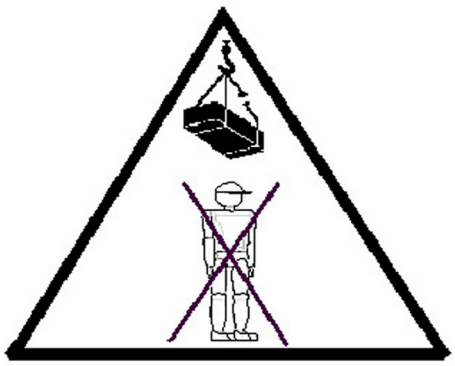
The bucket elevator should be placed on a sufficiently hard, level surface.

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 on the individual components can be seen under "Parts list T53/T54/T55" in this manual.

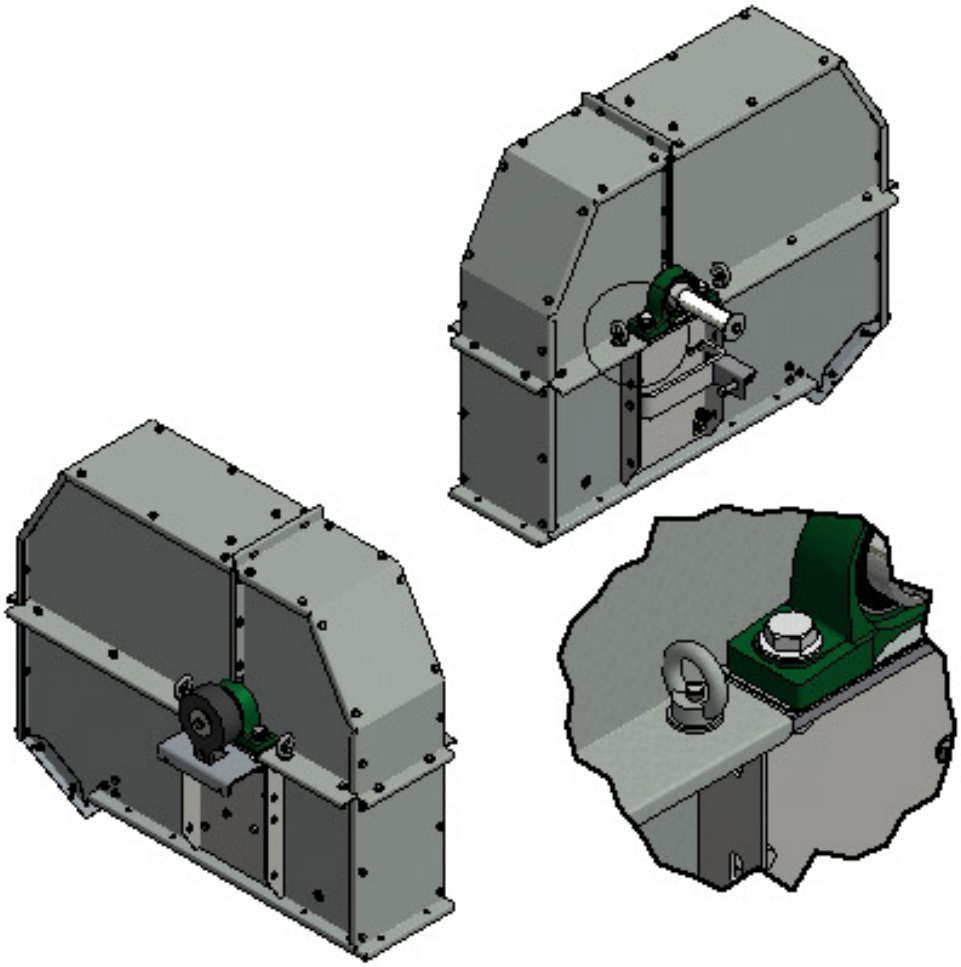
The total weight of the machine is stated in the section "Weight table bucket elevator T53/T54/T55".



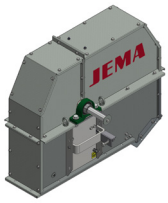
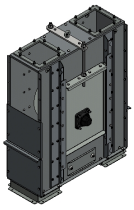
NB: Always make sure that nobody is standing under any suspended loads.

Lifting instructions

The drawings below show how to lift the elevator head in the fitted brackets.



Weight table – individual components T53/54/55

	Description	T53 Part no.	Weight kg	T54 Part no.	Weight kg	T55 Part no.	Weight kg
	Bucket elevator head w/bracket for torque arm, d35/d45/d45 RHS	53050	83,00	54070	209,00	55070	234,00
	Bucket elevator head w/bracket for torque arm, d35/d45/d45 w/10mm PEHD RHS	53050-P	86,00	54070-P	212,00	55070-P	235,00
	Bucket elevator head w/bracket for torque arm, d35/d45/d45 LHS	53049	83,00	54074	209,00	55069	234,00
	Bucket elevator head w/bracket for torque arm, d35/d45/d45 w/10mm PEHD LHS	53049-P	86,00	54074-P	212,00	55069-P	235,00
	Bucket elevator head w/bracket for torque arm, d55 RHS					55050	236,00
	Bucket elevator head w/bracket for torque arm, d55 w/10mm PEHD RHS					55050-P	237,00
	Bucket elevator head w/bracket for torque arm, d55 LHS					55049	236,0
	Bucket elevator head w/bracket for torque arm, d55 w/10mm PEHD LHS					55049-P	237,00
	Bucket elevator boot	53117	95,00	54117	217,00	55117	231,00
	Extension 1m / w. inspection door	53118	17,00	54118	28,00	55118	31,00
	Extension L = 2,5m	53062	29,00	54062	38,20	55062	55,80
	Extension L = 2,0m	53068	23,70	54068	31,20	55068	45,60
	Extension L = 1,0m	53061	12,20	54061	16,20	55061	23,50
	Extension L = 0,5m	53060	6,40	54060	8,50	55060	12,50
	Extension L = 0,25m	53059	3,60	54059	4,90	55059	7,00
	Elevator bucket 140 / 180 / 240mm	53064	0,36	54064	0,60	55064	1,20
	Bucket bolt incl. washer and nut	53065	0,04	53065	0,04	55065	0,05
	Elevator belt 150 mm, 6 buckets rm	91160	2,80				
	Elevator belt 150 mm, 10 buckets rm	91161	4,00				
	Elevator belt 200 mm, 8½ buckets rm			91164	6,30		
	Elevator belt 280 mm, 7 buckets rm					91166	10,40
	Elevator belt 150 mm oil resistant, 6 buckets rm	91162	2,80				
	Elevator belt 150 mm oil resistant, 10 buckets rm	91163	4,00				
	Elevator belt 200 mm oil resistant, 8½ buckets rm			91165	6,30		
	Elevator belt 280 mm oil resistant, 7 buckets rm					91167	10,40

Weight table – bucket elevator T53

Complete with elevator head, elevator boot, inlet piece, extensions, shaft geared motor, elevator belt with buckets

Height in metres	T53			
	Part no.	Kg	Part no.	Kg
3,65	53001	361,000	53025	382,000
4,65	53002	386,000	53026	416,000
5,65	53003	421,000	53027	451,000
6,65	53004	457,000	53028	497,000
7,65	53005	492,000	53029	542,000
8,65	53006	528,000	53030	578,000
9,65	53007	553,000	53031	613,000
10,65	53008	588,000	53032	658,000
11,65	53009	624,000	53033	704,000
12,65	53010	659,000	53034	739,000
13,65	53011	694,000	53035	784,000
14,65	53012	730,000	53036	820,000
15,65	53013	765,000	53037	855,000
16,65	53014	801,000	53038	901,000
17,65	53015	836,000	53039	936,000
18,65	53016	871,000	53040	991,000
19,65	53017	897,000	53041	1.027,000
20,65	53018	932,000	53042	1.062,000
21,65	53019	968,000	53043	1.108,000
22,65	53020	1.003,000	53044	1.208,000
23,65	53021	1.038,000	53045	1.233,000
24,65	53022	1.079,000	53046	1.269,000

Weight table – bucket elevator T54/T55

Complete with elevator head, elevator boot, inlet piece, extensions, shaft geared motor, elevator belt with buckets

Height in metres	T54		T55	
	Varenr.	Kg.	Varenr.	Kg.
4,0	54001	686,000	55001	811,000
5,0	54002	754,000	55002	931,000
6,0	54003	811,000	55003	1.021,000
7,0	54004	868,000	55004	1.111,000
8,0	54005	915,000	55005	1.191,000
9,0	54006	1002,000	55006	1.281,000
10,0	54007	1059,000	55007	1.360,000
11,0	54008	1.116,000	55008	1.450,000
12,0	54009	1.174,000	55009	1.550,000
13,0	54010	1.121,000	55010	1.630,000
14,0	54011	1.278,000	55011	1.720,000
15,0	54012	1.345,000	55012	1.810,000
16,0	54013	1.402,000	55013	1.900,000
17,0	54014	1.458,000	55014	1.980,000
18,0	54015	1.540,000	55015	2.099,000
19,0	54016	1.603,000	55016	2.149,000
20,0	54017	1.661,000	55017	2.229,000
21,0	54018	1.718,000	55018	2.399,000
22,0	54019	1.775,000	55019	2.479,000
23,0	54020	1.842,000	55020	2.559,000
24,0	54021	1.899,000	55021	2.649,000
25,0	54022	1.956,000	55022	2.814,000

Assembly

Make sure that the surface is sufficiently strong and check the transport direction (location of in- and outlet), before assembly.

Please read the complete instructions carefully before assembly.

Check that the work area is safe.

Remember!

To use the necessary safety equipment during the assembly, such as work gloves, safety footwear, helmet, safety glasses and a life line, if necessary. These parts are not included.

The elevator is assembled in two parts, a top part and a bottom part.

- The bottom part consists of the elevator boot and elevator extensions that correspond to half of the elevator height and 1 off. 1m elevator extension with inspection door, through which the belt lacing and bucket fitting are carried out (se separate section).

- The elevator extensions with the inspection door must be fitted at a suitable height to make room for future lacing of belts and bucket fitting.

- The top part consists of elevator head and the remaining number of elevator extensions and must be connected to the belt (se separate section).

After partial assembly of the bottom- and top part, the parts must be assembled.

For safety reasons the outlet and inlet in the elevator top and bottom part must be blocked during assembly.

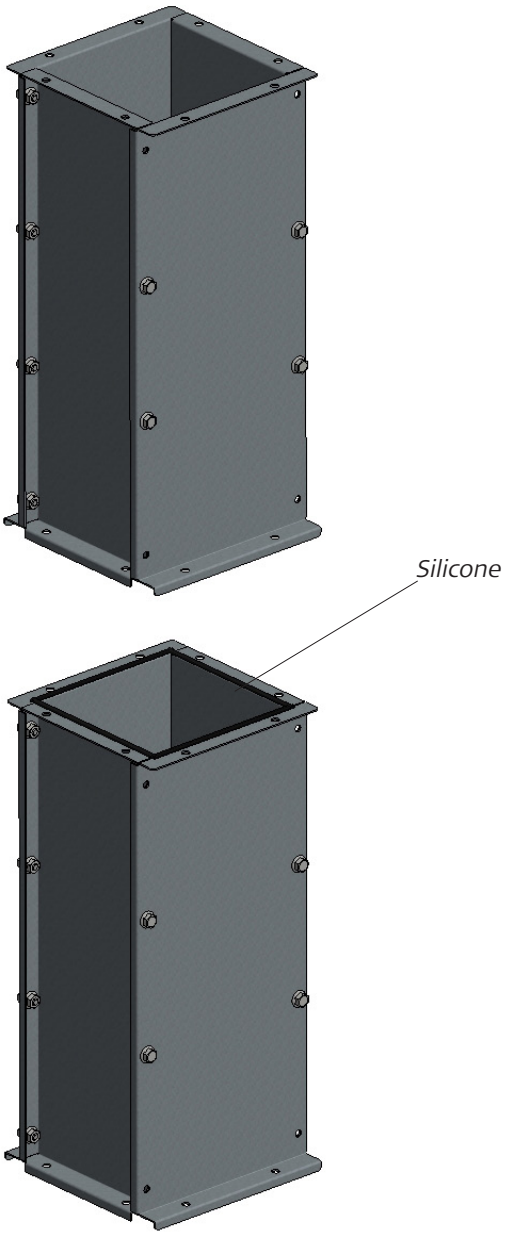
The blockage must only be removed immediately before the mechanical assembly, and the bucket elevator must not be started prior to this.

Sealing

To prevent dust and moisture from entering, it is important that all joints are completely sealed with an appropriate sealing compound.

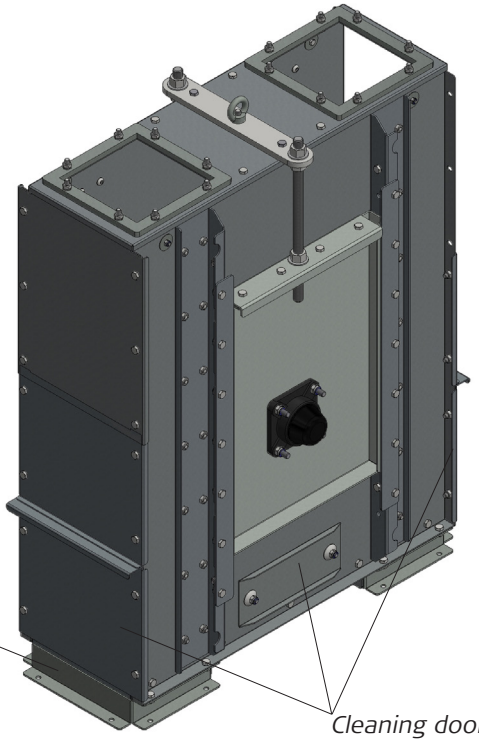
The sealer must be applied at the flanges inside the holes.

After sealing the joints must be bolted together.

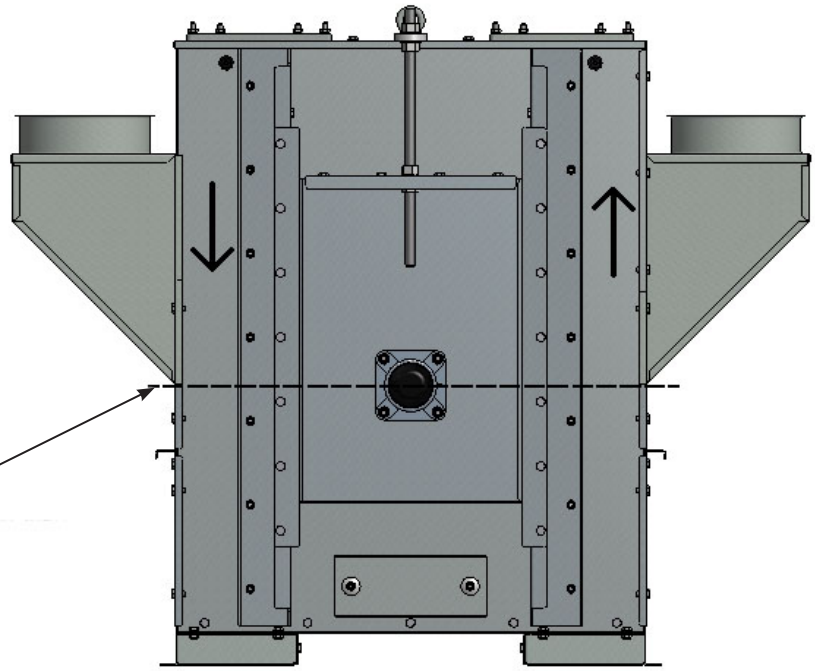


The elevator boot

Fit the base plates, if necessary.
The base plate is located and fitted to the foundation. Check that the plate is completely level, before the extensions are fitted.

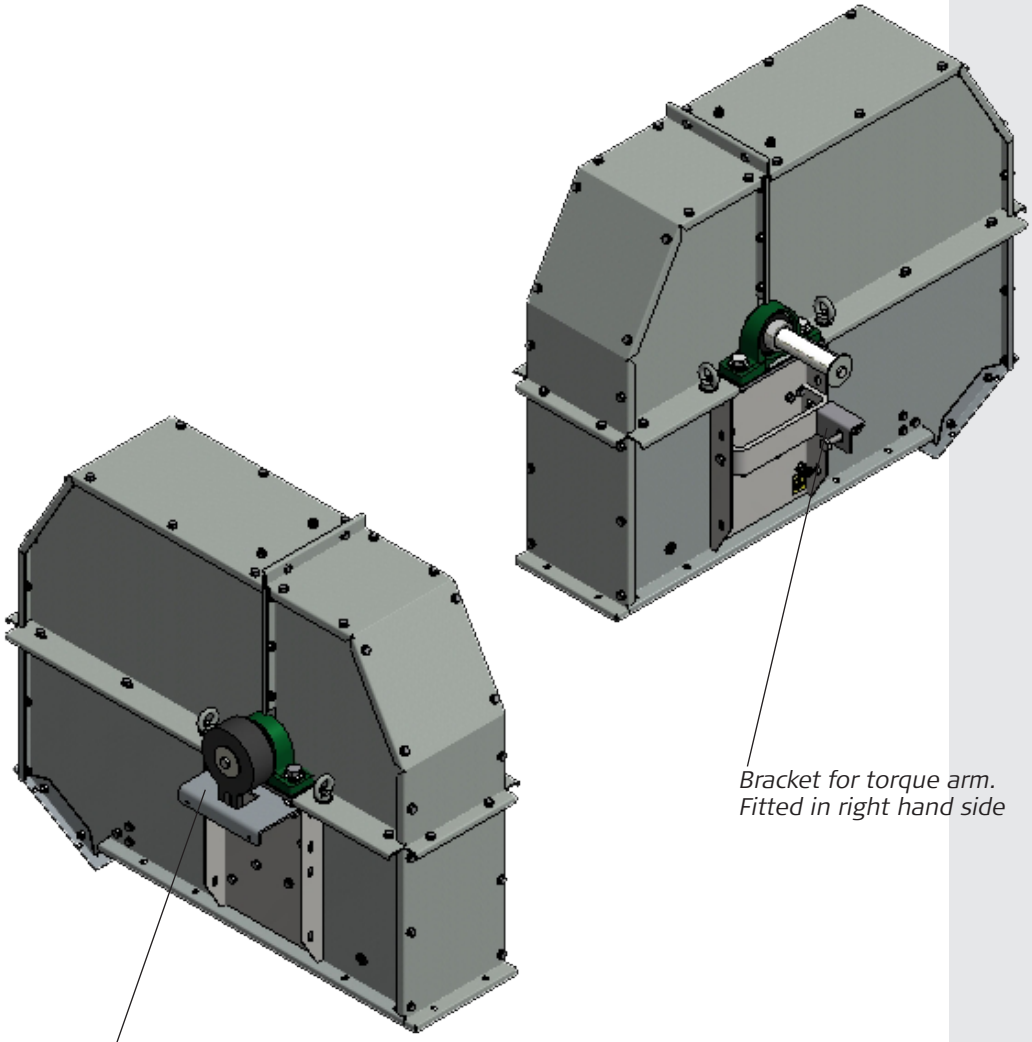


Location of inlet



Elevator head

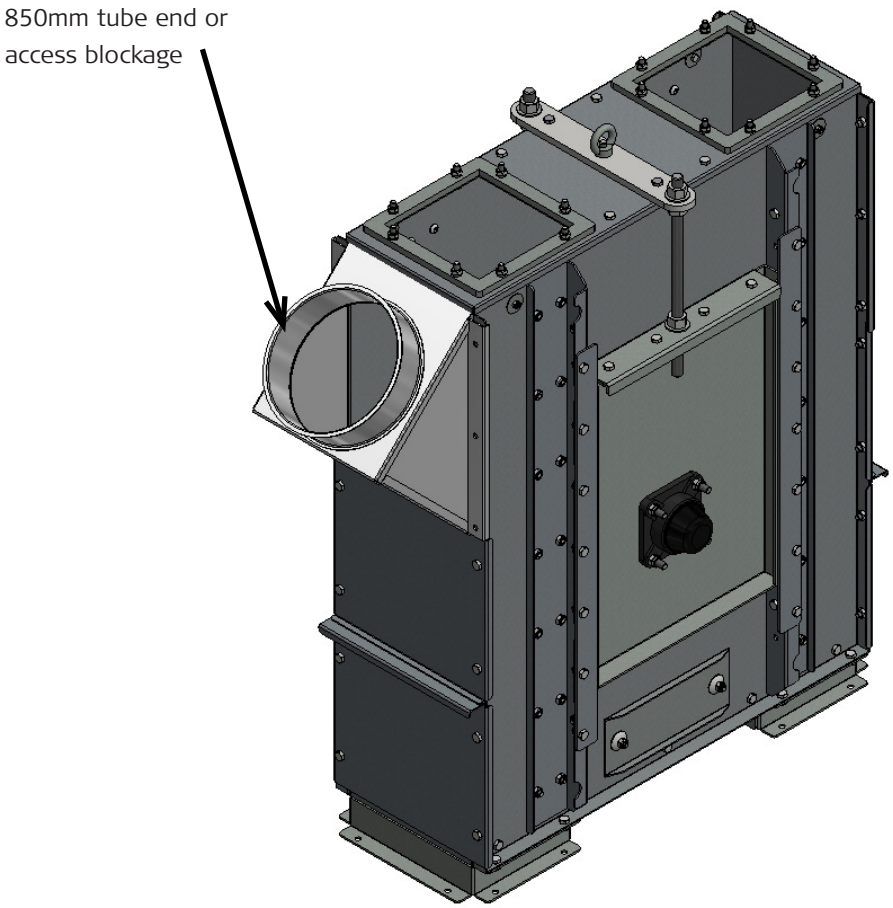
The elevator head must be assembled at the floor level. The head must be fitted with extensions corresponding to half of the total height. When the extensions have been fitted, the belt without buckets is fitted (see instructions in section “Elevator belt”).



Bracket for torque arm.
Fitted in right hand side

Non return device
(fitted in left hand side)

Important!
When the blockage is removed, it is important to fit a tube of min. 850mm or another type of blocking device to avoid the possibility of somebody sticking a hand into the machine.

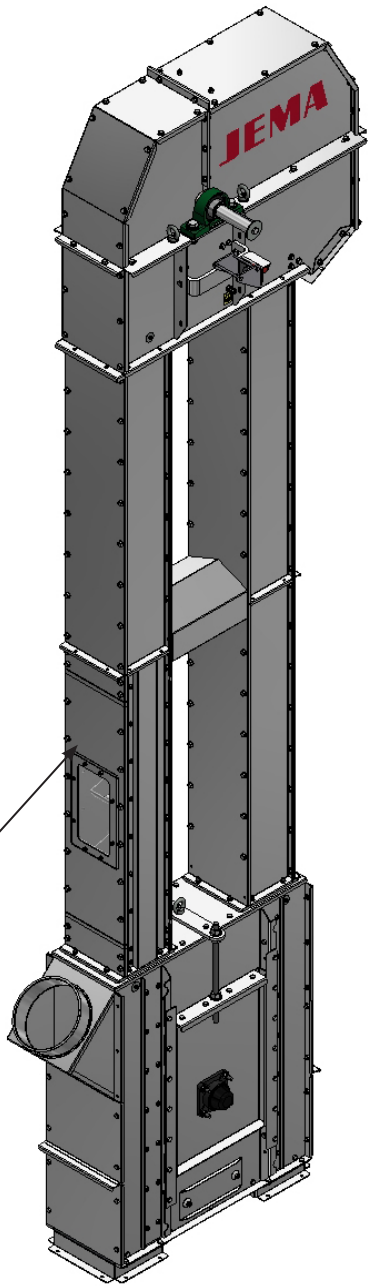


Elevator extensions

The elevator extension with inspection glass must be fitted at a height that facilitates the belt connecting and bucket fitting, as this has to be done through the door.

Fit the extension as shown on the drawing.

The elevator must constantly be secured during the fitting. See section “height attachment”

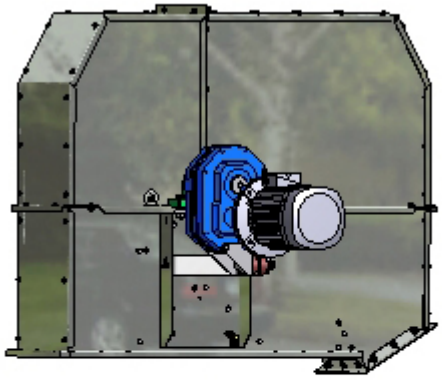


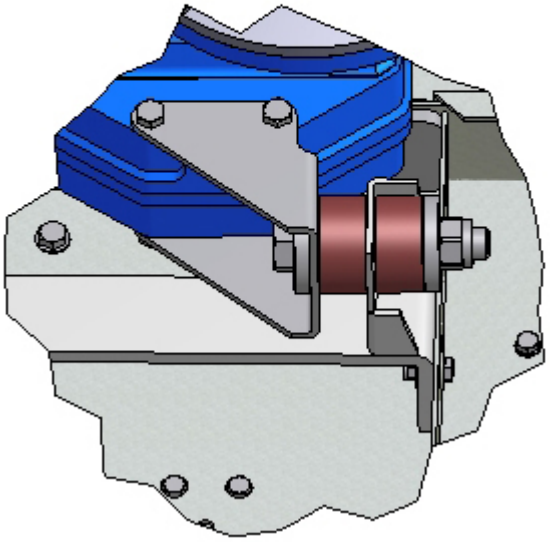
Elevator extension with inspection glass

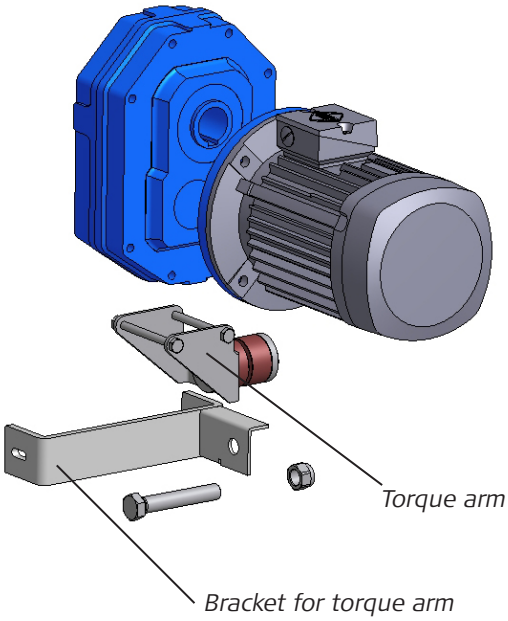
Motor

The motor and gear are fitted on the drive shaft (se below drawing).

Important!
The bleed screw on the gear must always be fitted in the top position.





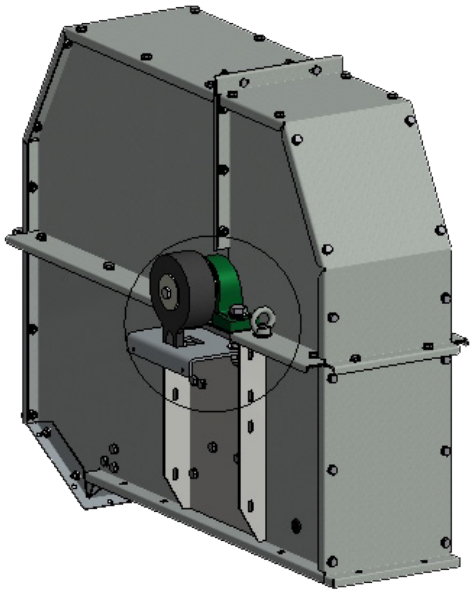


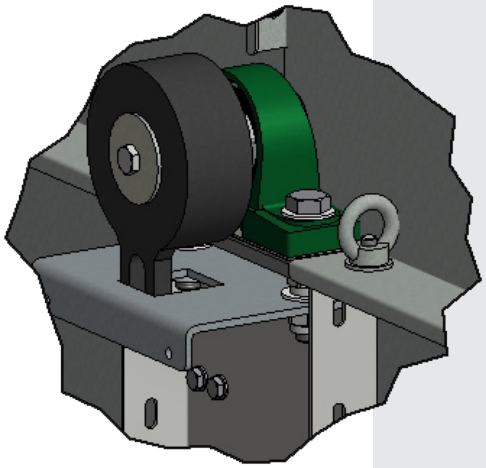
See the attached supplier documentation regarding maintenance of motor and gear.

Non return device

The device must be fitted and adjusted in accordance with below drawings, and subsequently implemented as described in the attached supplier documentation.

Important!
Please check that the position of the non return device is correct.



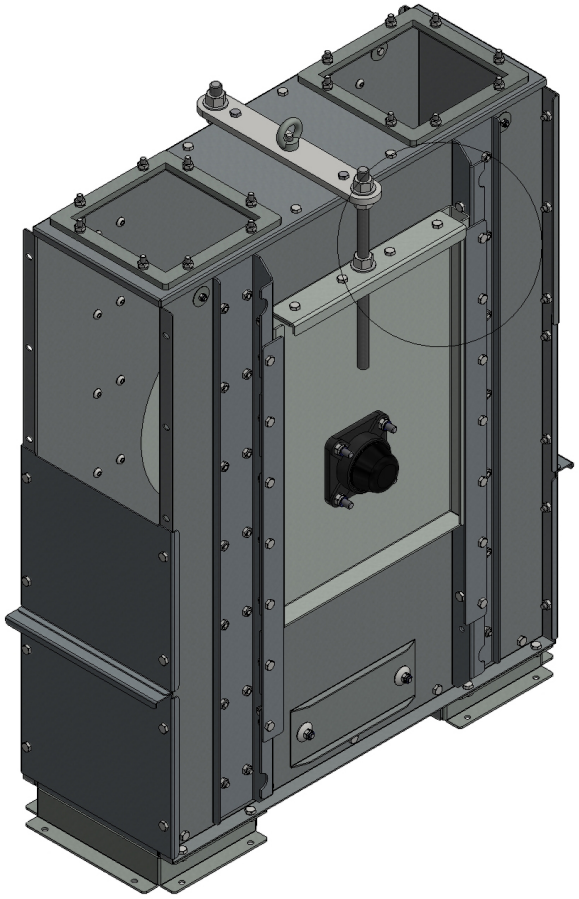


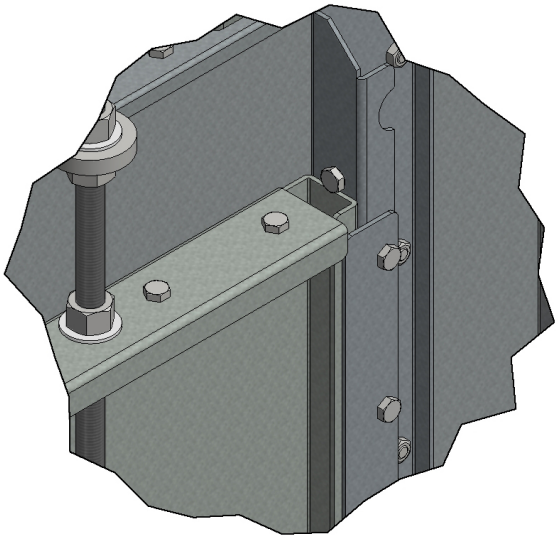
Elevator belt

Before fitting the belt, please check that the pulleys on the elevator boot are in their top position. Otherwise it will not be possible to adjust the belt, when the buckets have been fitted.

The belt must be fitted in the elevator, before the elevator head with extensions is raised.

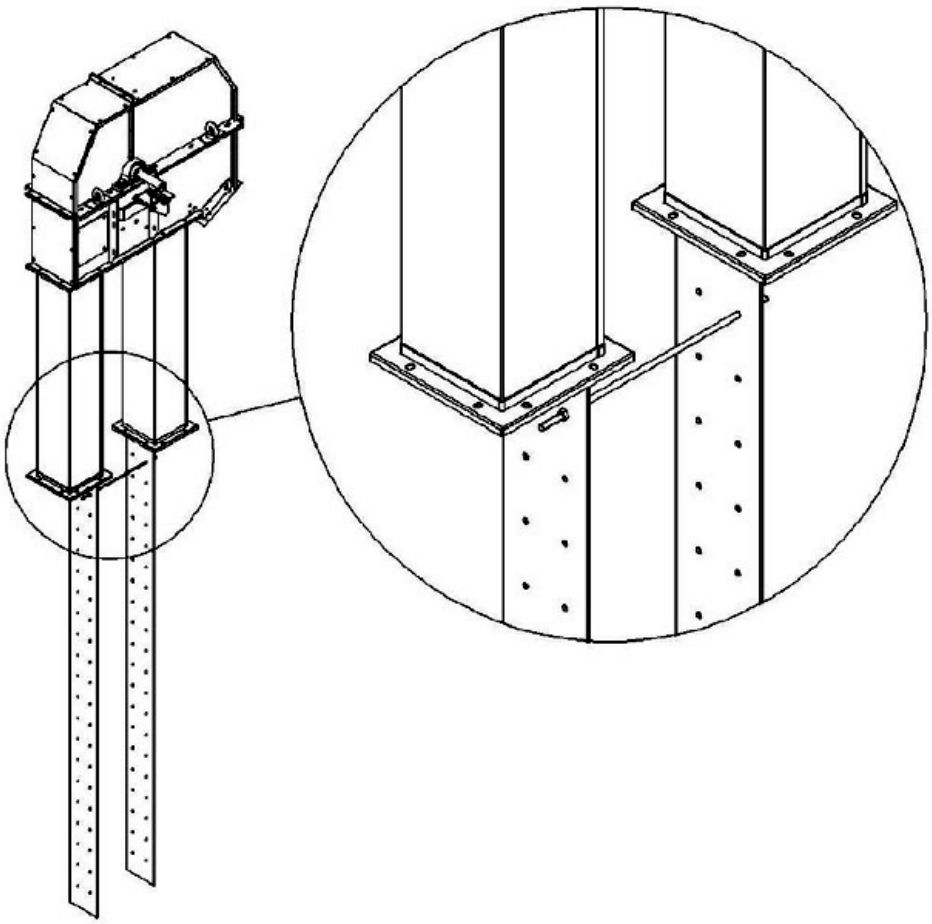
Important!
The belt has to be secured as shown on the drawing in the "Elevator assembly" section before the elevator head is being raised.





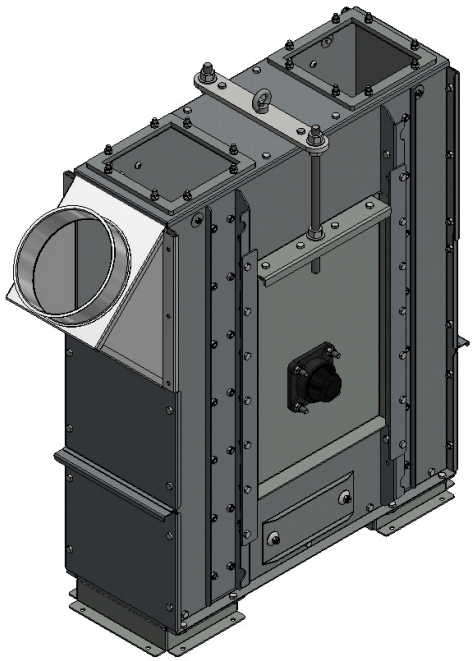
Elevator assembly

The elevator must be assembled by means of correct and approved SWL lifting equipment. Also read the section “Upon receipt”, before assembly of the elevator.



Before the elevator is lifted, the belt must be secured, as shown on the drawing. The locking device must be removed before assembly with the bottom part.

Assembling of elevator belt

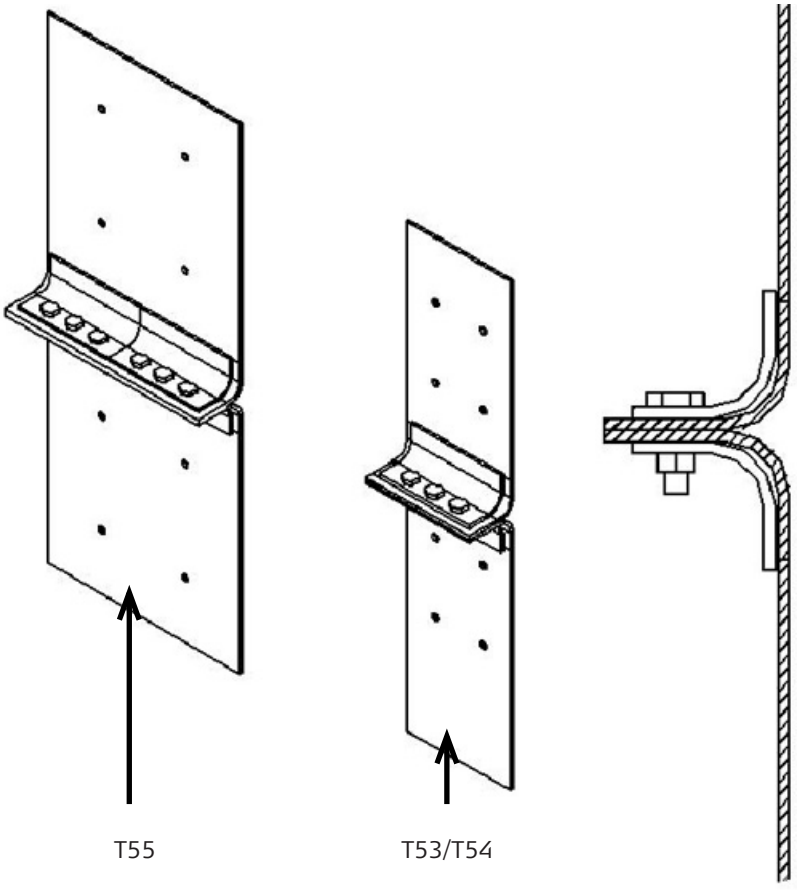


1. Before the elevator head is fitted to the elevator boot, the locking devices must be removed.

2. When the elevator head with belt has been lowered onto the boot, a side cover in the elevator bottom must be detached. The belt is drawn through the opening, around the drum and further up through the elevator extension with inspection door.

3. Assemble the belt with the connecting device.
   1. Assemble the belt through the inspection door.
   2. Drill holes in the belt for the connecting device.
   3. Bolt the connecting device together and cut off any excess belt.

Important:
The thick layer of the 2 outer layers must face the drive roller, and the thin layer must face the buckets.



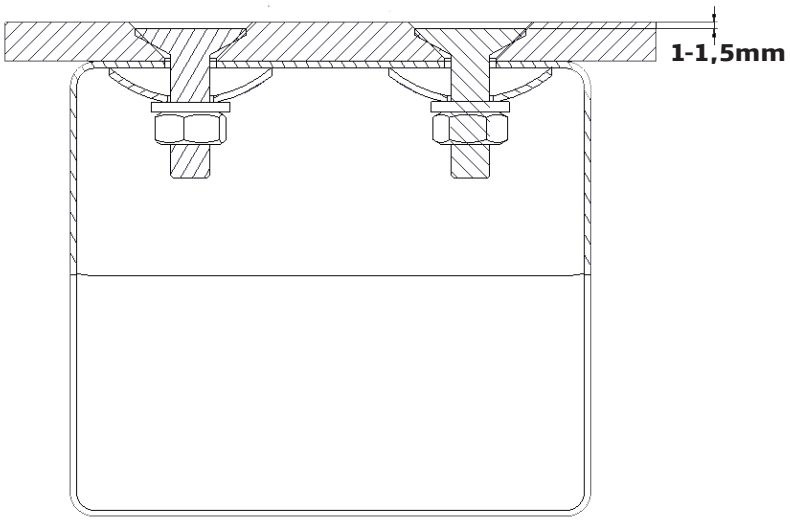
T55 T53/T54

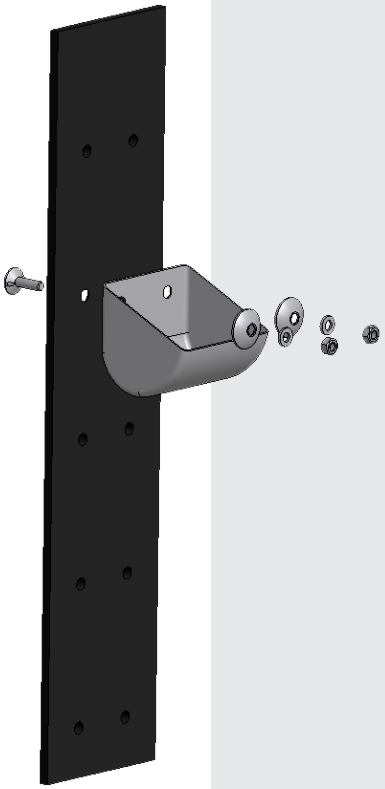
Fitting the buckets

Start by fitting 5 buckets on the belt, then fit 5 more buckets with an interval of 5 m. Repeat this procedure until the belt is filled up.

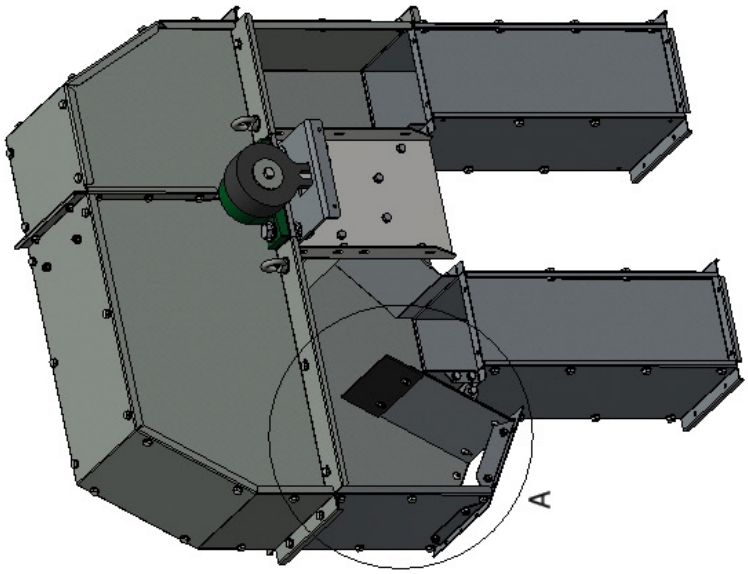
When the buckets have been fitted, the belt must be tightened and adjusted, so it runs evenly on the cylinders, which is done by adjusting the tensioners on the elevator boot.

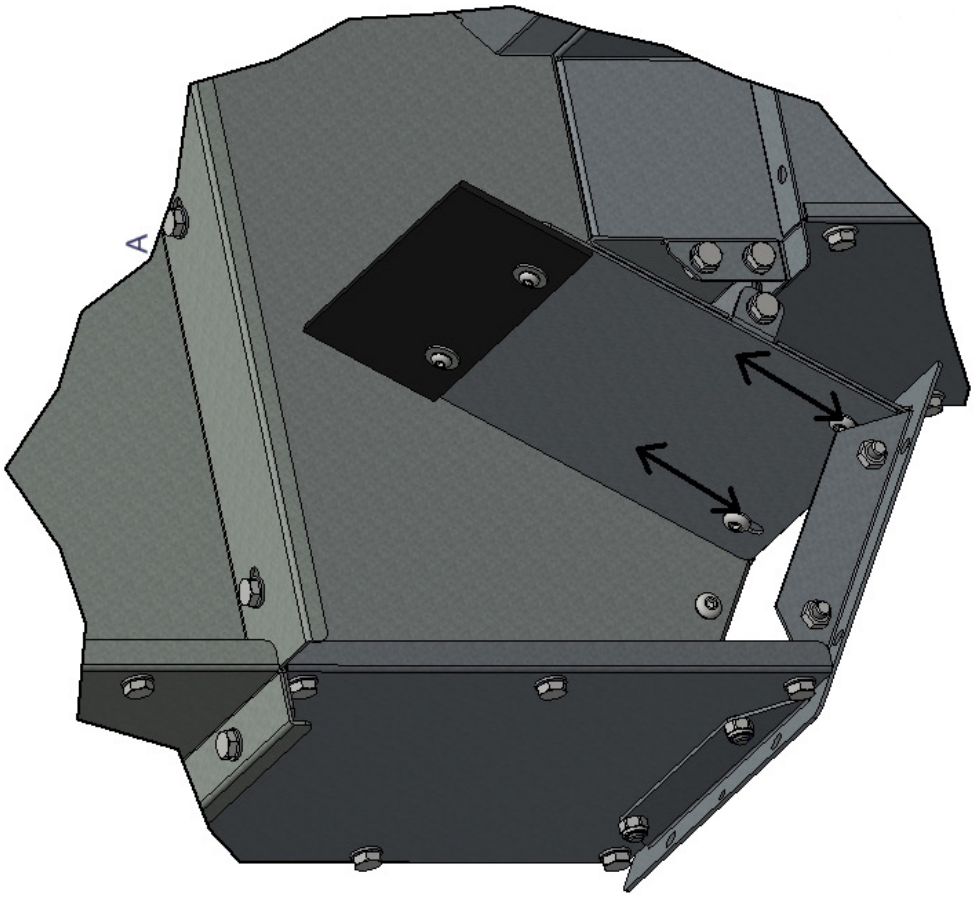
Important!
Remember to refit all inspection doors after the final assembly.





Adjustment of outlet plate



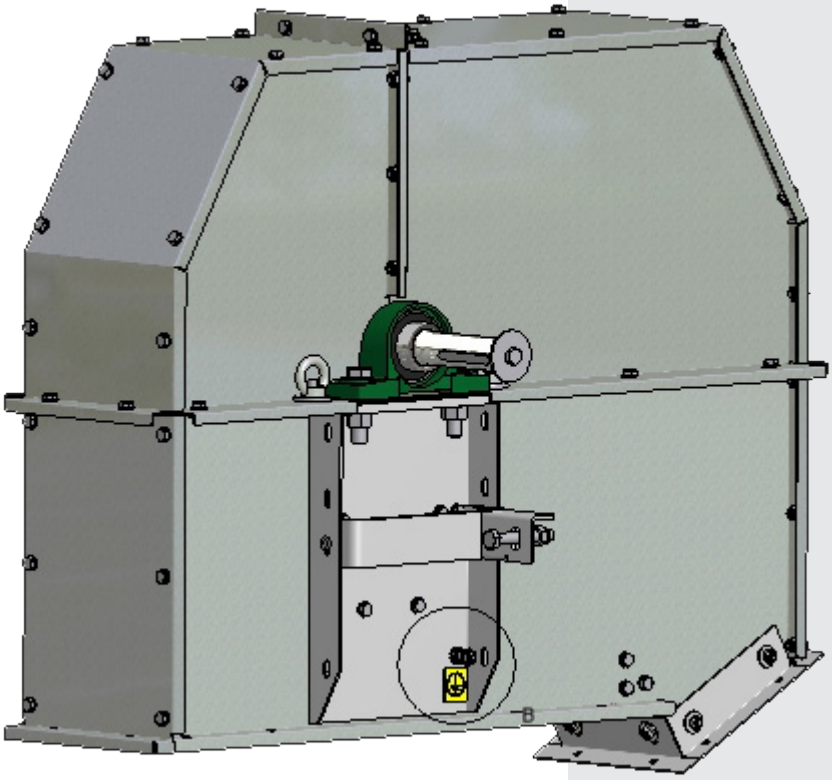


Potential equalization

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

A label on the elevator head indicates the point of elevator potential equalization.
This equalization of the machine is important to make sure that it is connected metallically.

The label indicates the potential equalization point of the bucket elevator.

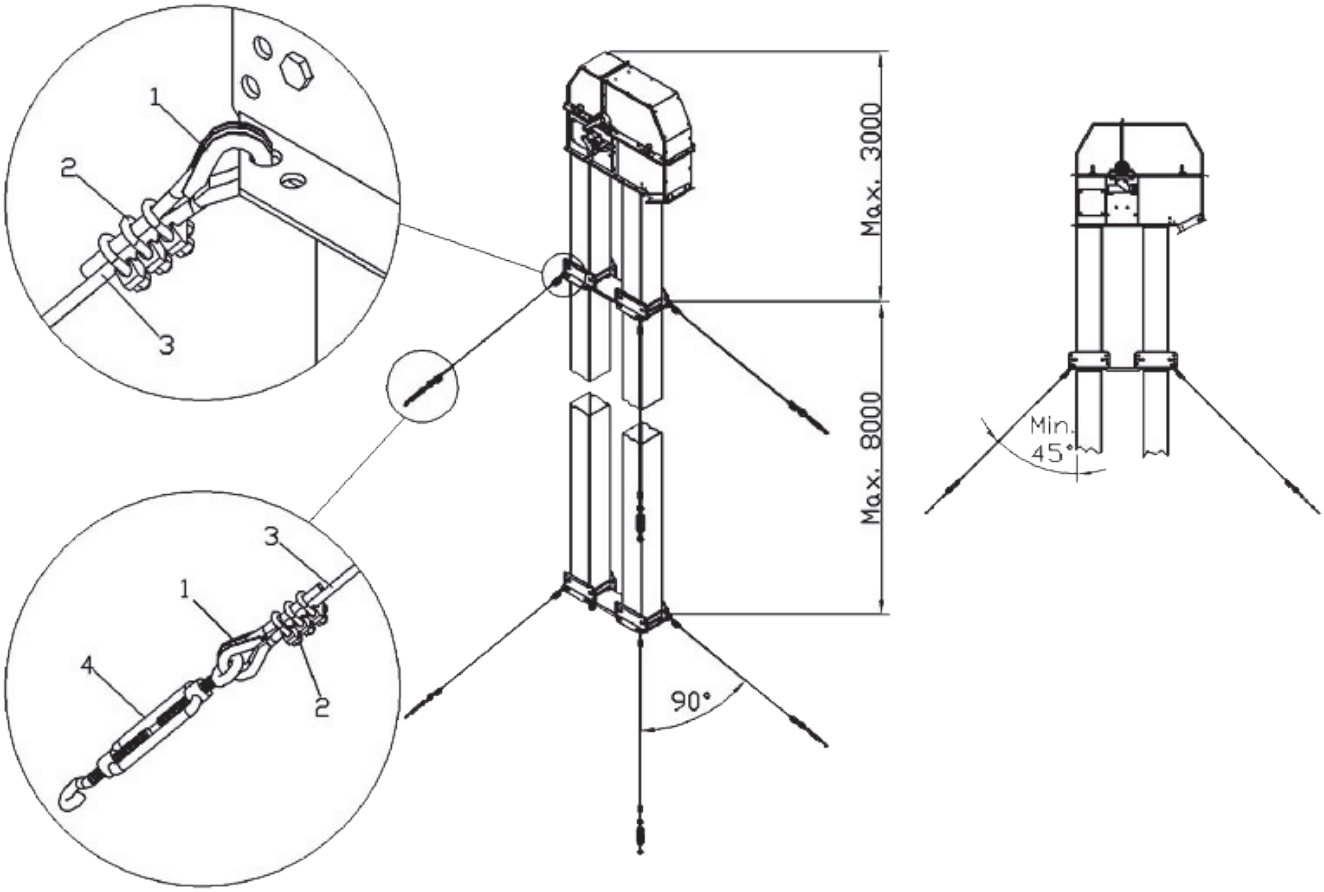


Potential equalization

Height attachment

It is important to secure the elevator heightwise to make sure it does not overturn. There should be a distance of max. 3.0 m from the top of the elevator head to the top bracket, and max. 8.0 m between the following attachments.

The angle between the wires and the elevator must be max. 45°, and 90° between the wires (see the below drawings).



Pos.	Description	T53	Kg	T54	Kg	T55	Kg
1	Wire thimble for 8 mm wire	92112	0,032	92112	0,032	92112	0,032
2	Wire clips for 8 mm wire	92113	0,032	92113	0,032	92113	0,032
3	Wire 8 mm (weight per metre)	92114	0,194	92114	0,194	92114	0,194
4	Turnbuckle with open eye and hook 12 mm	92106	0,400	92106	0,400	92106	0,400

Starting up

Before starting up the bucket elevator, check that:

- All inspection doors are fitted
- No work must is carried out on/near the machine.
- The motor rotation direction is correct.
- All elevator bolts are correctly fitted and tightened.
- All bucket bolts are correctly fitted and tightened.
- The belt is fitted and correctly adjusted.
- The attachment and stability of the bucket elevator is correct.
- *All joints are sealed.*

Elevator stops – faultfinding

In case of elevator stops, check first whether the elevator will start again, after the relay has gone cold. If yes, the fault is either caused by low adjustment of the relay or lack of motor capacity.

If the elevator is still not able to start without being drained of material, it must be checked whether the return tube on the elevator (where the belt is running downwards) is filled with material in the bottom part (open the inspection door). In this case the fault is due to blockage of the elevator drain (drain tubes too small or with insufficient slope) or stops in other parts of the transport system.

Maintenance

It is very important to observe the indicated cleaning- and maintenance instructions in order to secure a trouble-free operation of the machine.

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 bucket elevator must be disconnected and secured against accidental reconnection.

- After repair and maintenance the inspection doors and shielding must be refitted be fore 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.

Gear motor

Control the gear in accordance with the attached supplier documentation.

Important!
Check that the bleed 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 regarding the process.

Elevator belts

Check the belts for correct tensioning. This is done by checking that the belt starts immediately at full speed.

When the buckets are fitted, the belt must be tightened and adjusted in order to run evenly on the cylinders. This is done by adjusting the turnbuckles at the elevator boot.

Please see the maintenance survey for service intervals.

Elevator buckets

The elevator buckets must be retightened after approx. 200 operating hours.

Metallic sounds indicate that the belt is not adjusted correctly or that one or more buckets have gone loose. Immediately stop the machine and retighten or change the loose/damaged buckets.

Bearings

Check the bearings for wear/looseness and lubricate in accordance to the maintenance summary.

Lift up the shaft to check for any damages/looseness. Check that there is no water in the elevator pit, as this will damage the bearings in the elevator boot.

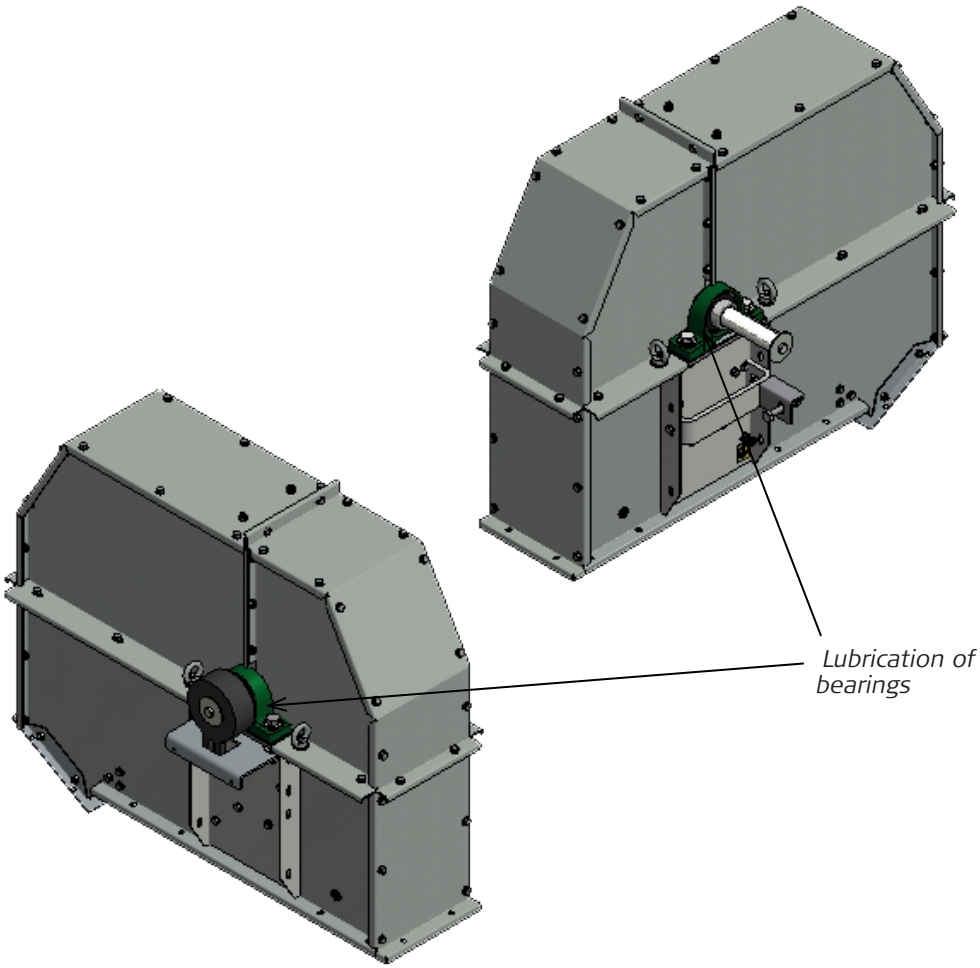
Lubrication of bearings

Important!
Lubrication with the correct amount of grease is very important, as an excessive amount of grease may damage the sealing of the bearing, which may result in overheating.

Check the amount of grease that the grease gun delivers per pressure.

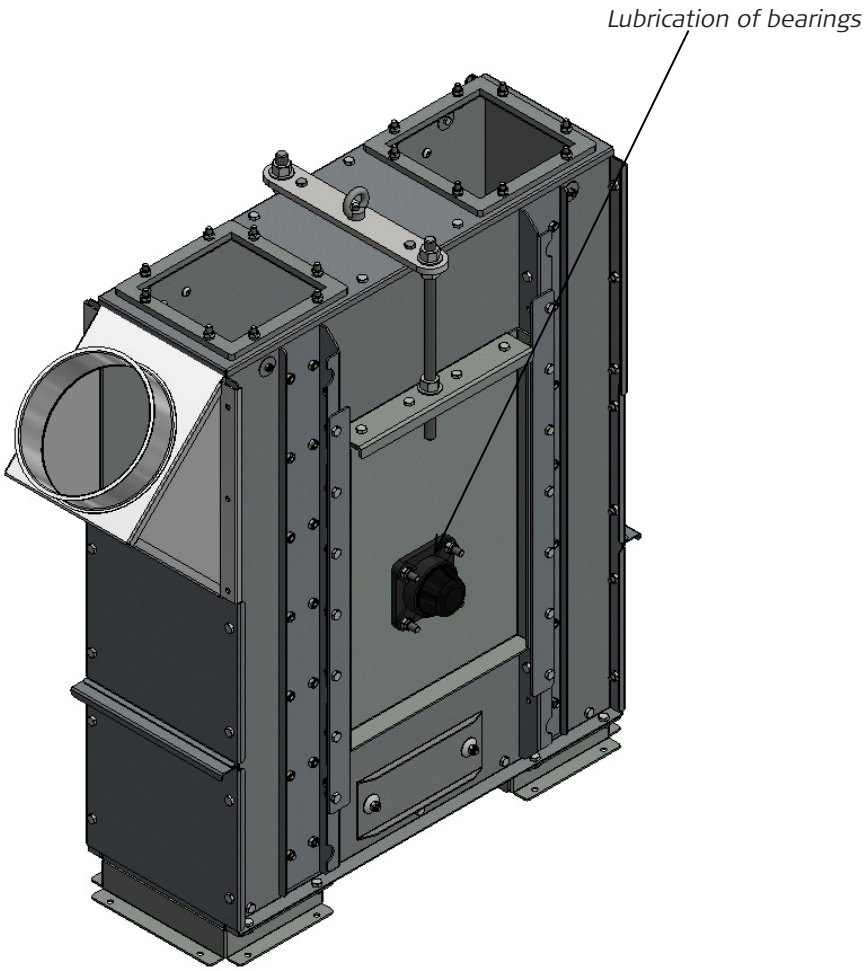
Elevator head

The 2 bearings in the elevator head must be lubricated with 4.0 g. of grease as indicated in the maintenance summary.



Elevator boot

The two bearings in the elevator boot must be lubricated with 2.5 g. of grease as indicated in the maintenance summary.



Non return device and speed monitor

Check the non return device and speed monitor as stated in the maintenance summary.

Leaks

Any leaks must be repaired immediately.

Noise and vibrations

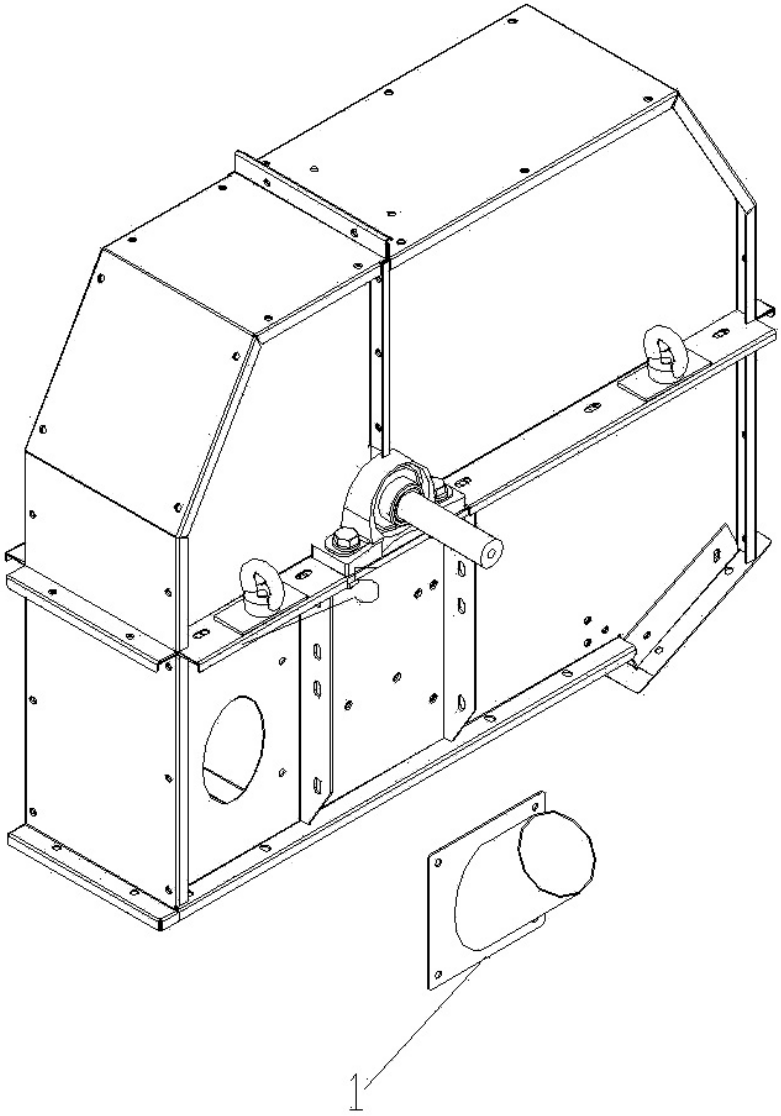
Stop the bucket elevator immediately to determine what is causing the problem.

Options/accessories

According to the individual requirements, various components for the bucket elevator are available as accessories.

Aspiration

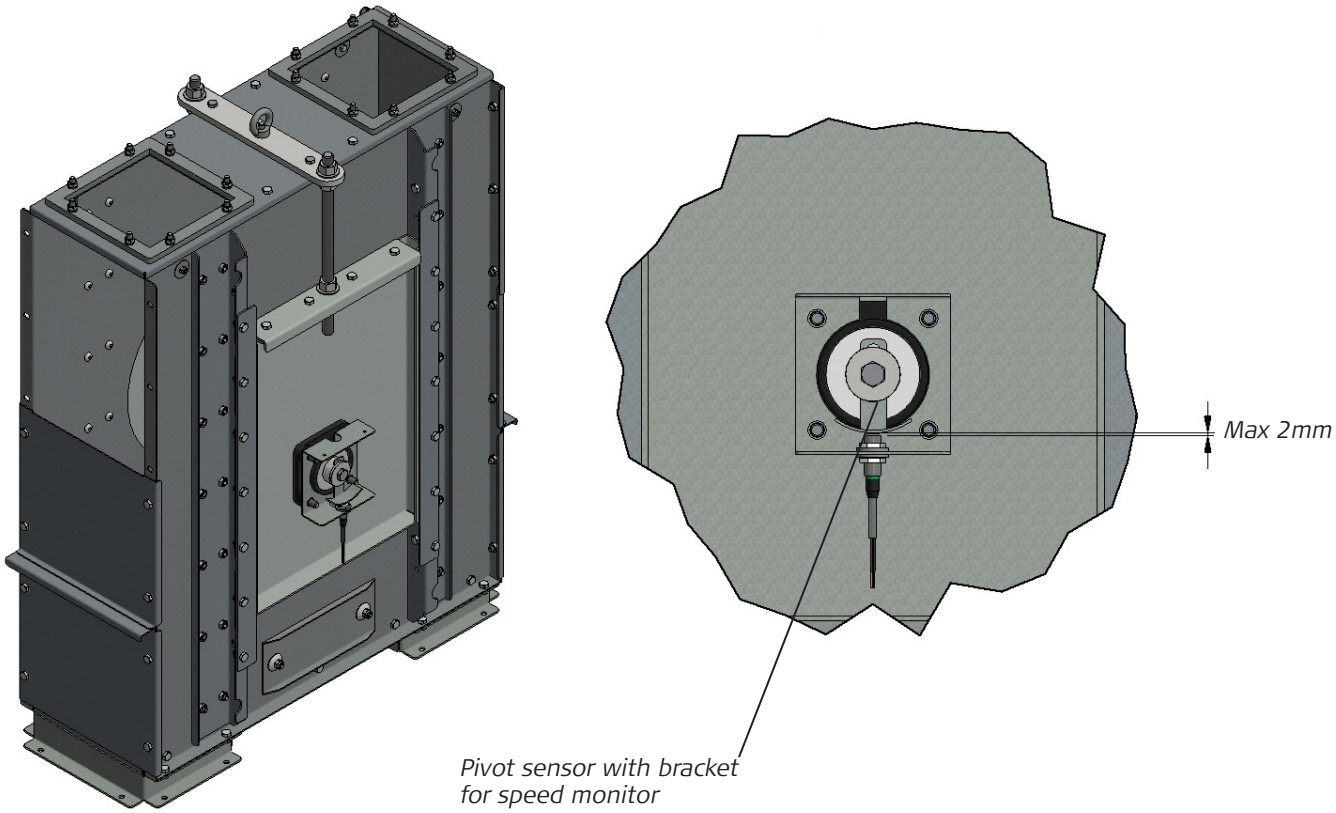
Fit the aspiration to the connection.



Pos.	Description	T53	Kg	T54	Kg	T55	Kg
1	Aspiration connection, d120	55122	1,000	55122	1,000	55122	1,000

Speed monitor

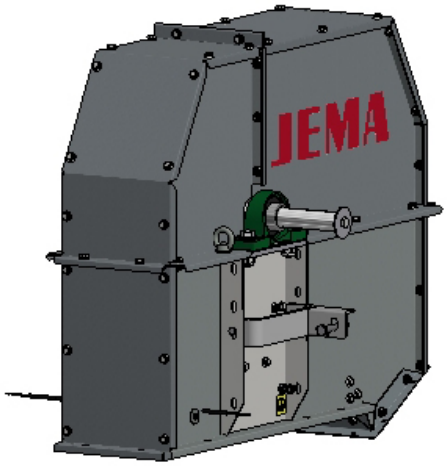
After fitting, adjust the monitor according to the below drawing.

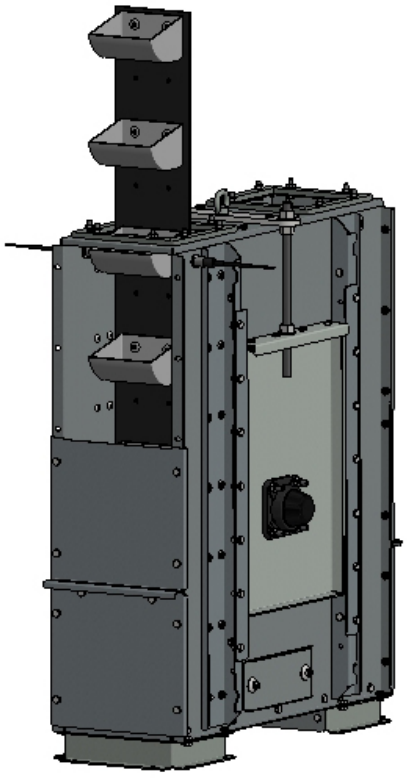


Misalignment sensor

The belt guide control registers whether the belt is correctly aligned, and stops the machine if necessary. The sensor is fitted at the top and bottom of the elevator.

For maintenance please see the supplier documentation.



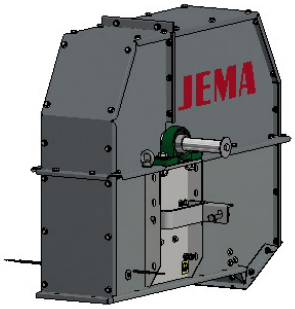


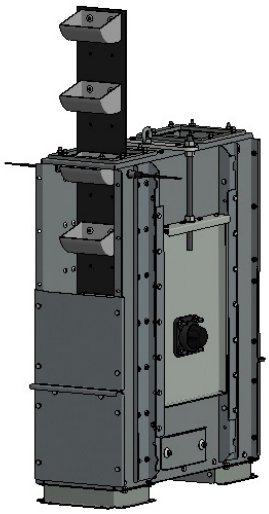
Misalignment sensor adjustment

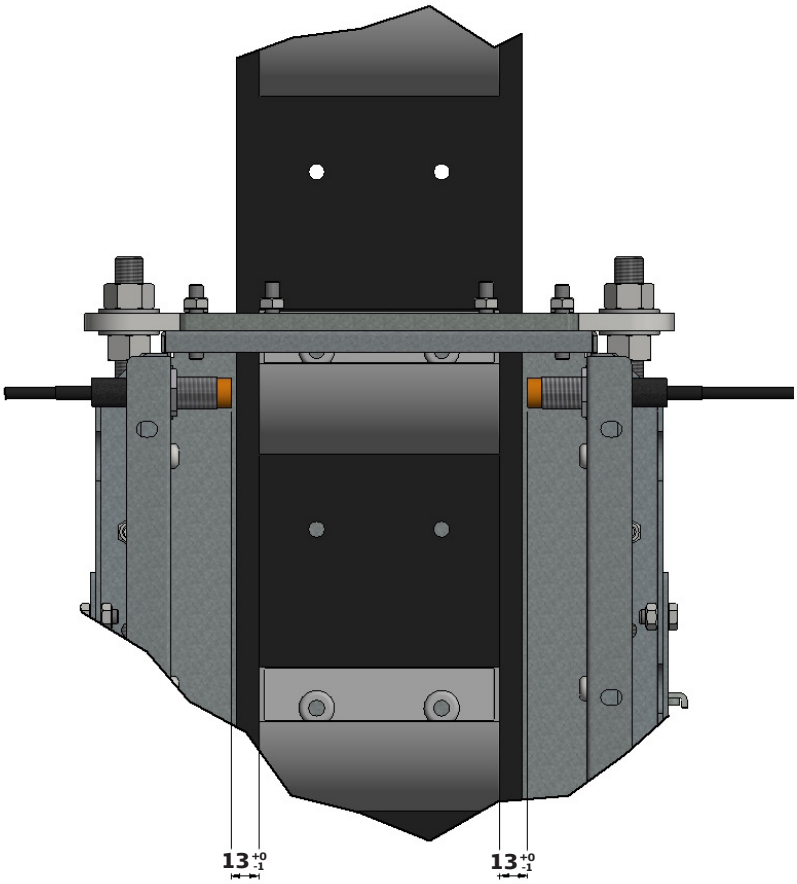
The misalignment sensor is factory fitted, if it is ordered together with the elevator.

For later fitting of the sensor, a drilling fixture is attached to both the elevator head and boot.

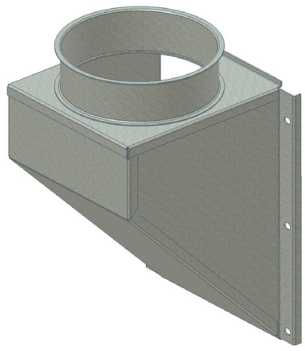
Important!
It is important that the sensor is adjusted at a distance of 13 mm with a tolerance of +0/-1.
Measure the distance between the sensor and the bucket.





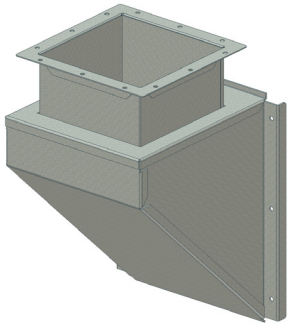


Inlet piece 90°



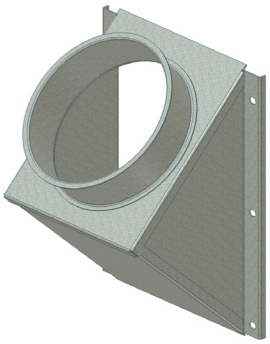
Type	Size	Part no.
T53	SK200	53054 / 53054-P
T54	SK250	54054 / 54054-P
T55	SK300	55054 / 55054-P

Inlet piece 90°



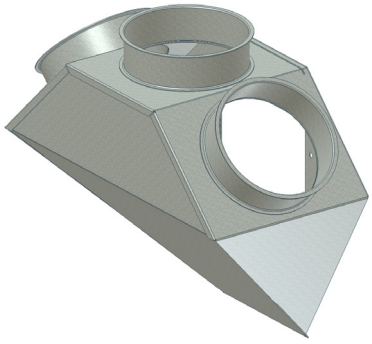
Type	Size	Part no.
T53	180 x 180	53124 / 53124-P
T54	240 x 240	54058 / 54058-P
T55	300 x 300	55058 / 55058-P

Inlet piece 45°



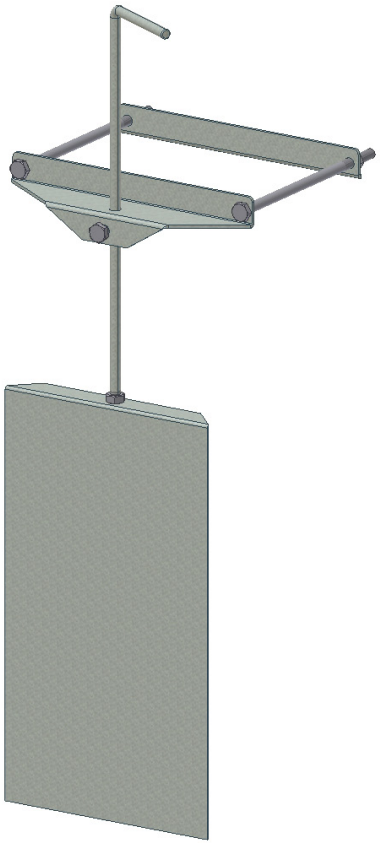
Type	Size	Part no.
T53	SK200	53055 / 53055-P
T54	Sk250	54055 / 54055-P
T55	SK300	55055 / 55055-P

3 - way inlet



Type	Size	Part no.
T53	SK200	53356 / 53356-P
T54	SK250	54356 / 54356-P
T55	SK300	55356 / 55356-P

Inlet adjustment



Type	Part no.
T53	53071
T54	54071
T55	55071

Disposal

The methods of disposal must comply with the relevant local regulations

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

Disassemble the elevator on the floor, if there is sufficient space, and use the reverse order of the assembly procedure.

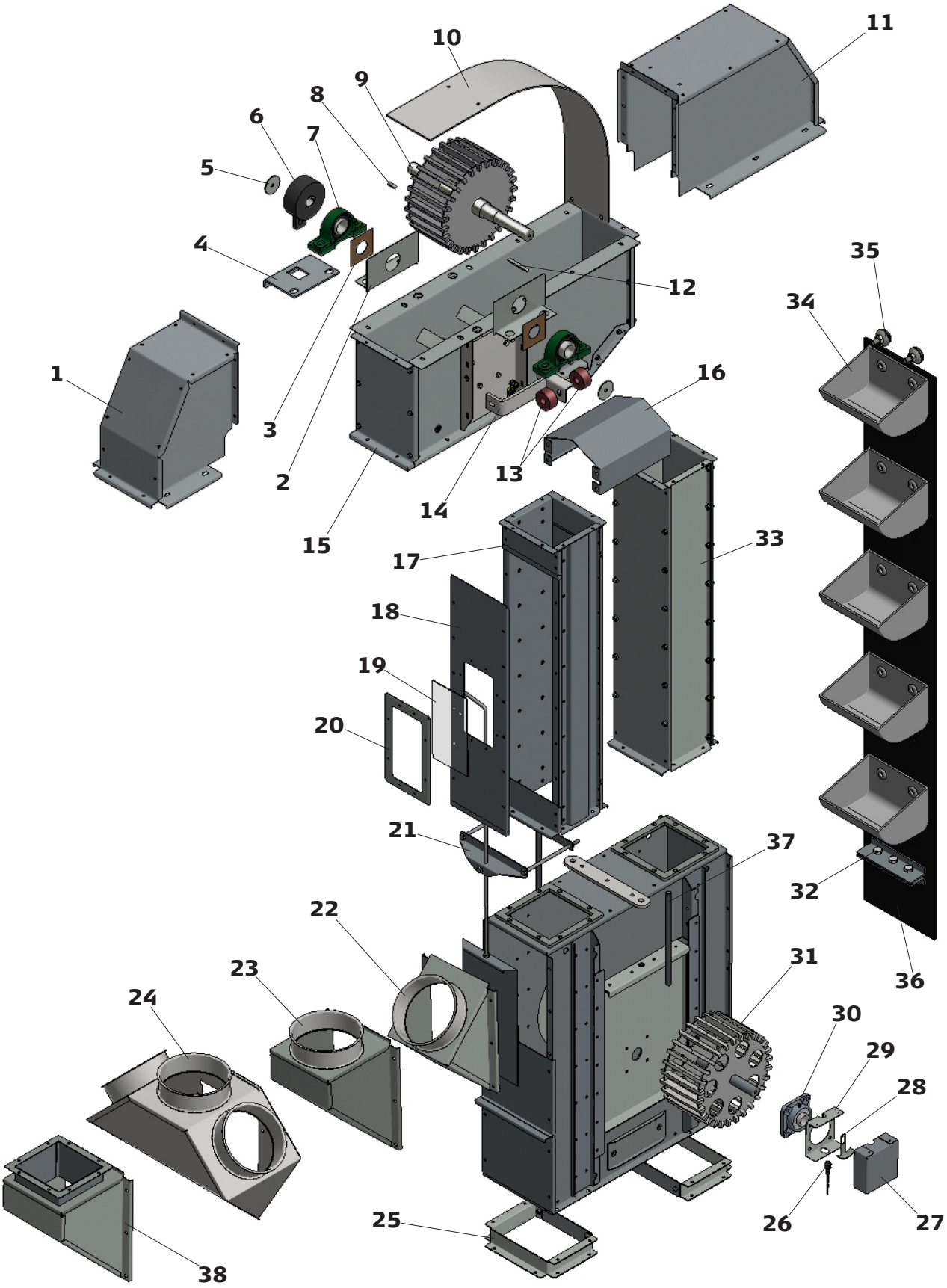
If the elevator is disassembled at the premises, start by detaching the gear motor.

First screw off the inspection door in the downward flow side, then dismantle the buckets similar to the fitting procedure. Now detach the belt lacer and attach a long rope to the end facing downwards. Slowly pull the end of the rope that turns upwards out, while slackening at the same time, then proceed with a new piece, etc. until the complete rope is out.

Then remove the elevator head, and finally all the extension.

The elevator consists partly of material that can be reused. All metal parts should be delivered to a recycle industry.

Parts T53/T54/T55



Parts list T53/T54/T55

Pos.	Description	T53	Kg	T54	Kg	T55	Kg
1	Top half for head, inlet side	53303	7,0	54303	24,3	55303	25,9
2	Shaft sealing plate for elevator head	53070	0,4	54069	0,7	54069	0,7
3	Felt seal with tape	53251-1	0,02	53251-2	0,02	53251-2	0,02
4	Fitting for non return device	53116	0,93	54115	1,59	54115	1,59
5	Rubber for elevator head	87078	0,02	87078	0,02	87078	0,02
6	Non return device	53067	3,0	54067	7,5	54067	7,5
7	Steel bearing	85144	1,2	85132	1,8	85132	1,8
8	Feather key	87068	0,01	87063	0,02	87063	0,02
9	Drive drum for elevator head	53051	16,0	54072	27,0	55072	48,0
10	Side plate for elevator head	53086	6,7	54086	14,3	55086	18,7
11	Top half of head, outlet side	53302	11,6	54302	37,8	55302	39,7
12	Feather key	87081	0,05	49573	0,08	49573	0,08
13	Rubber bush for torque arm for gear motor	91520	0,02	81322	0,04	81322	0,04
14	Bracket for torque arm	53082	1,5	54082	2,2	54082	2,2
15	Bottom part for head	53301	27,8	54301	65,4	55301	69,0
16	Distance plate	53123	2,2	54123	4,2	55124	
17	Extension 1.0 m with inspection door and sight glass	53118	17,0	54118	28,0	55118	31,0
18	Inspection door for sight glass for 1,0 m extension with door	53118-11	1,97	54118-11	2,7	55118-11	
19	Sight glass, single T53-54-55	53539	0,2	53539	0,2	53539	0,2
20	Support for sight glass, T53-54-55	53538	0,5	53538	0,5	53538	0,5
21	Inlet adjuster	53071	3,5	54071	5,2	55071	6,0
22	Inlet piece 45°	53055	3,7	54055	8,9	55055	9,5
	Inlet piece 45° with 10mm PEHD	53055-P	5,0	54055-P	11,2	55055-P	12,0
23	Inlet piece 90°	53054	5,3	54054	13,4	55054	14,7
	Inlet piece 90° with 10mm PEHD	53054-P	8,0	54054-P	16,9	55054-P	19,0
24	3-way inlet	53356	10,6	54356	25,0	55356	32,8
	3-way inlet with10mm PEHD	53356-P	15,0	54356-P	31,8	55356-P	42,0
25	Base plates (kit) for bucket elevator	53098	3,0	54098	4,0	55098	4,3
26	Inductive proximity sensor (2 outputs)	88075	0,05	88075	0,05	88075	0,05
	Inductive proximity sensor (3 outputs)	88079	0,05	88079	0,05	88079	0,05
27	Cover for speed monitor for boot	53090	0,6	54090	1,0	54090	1,0
28	Sensor support for speed monitor	54092	0,05	54092	0,05	54092	0,05
29	Support for speed monitor for boot	53091	0,3	54091	0,4	54091	0,4
30	Bearing	85130	1,2	85138	2,4	85138	2,4

Parts list T53/T54/T55

Pos.	Description	T53	Kg.	T54	Kg.	T55	Kg.
31	Drum for elevator boot	53052	11,5	54052	33,0	55052	38,0
32	Belt lacer	53066	0,3	54066	0,5	55066	0,7
33	Extension 0,25 m	53059	3,20	54059	4,4	55059	6,0
	Extension 0,5 m	53060	5,5	54060	7,2	55060	10,5
	Extension 1,0 m	53061	10,0	54061	13,2	55061	19,0
	Extension 2,0 m	53068	19,0	54068	25,0	55068	36,5
	Forlænger 2,5 m	53062	23,0	54062	30,3	55062	44,5
34	Elevator bucket	53064	0,36	54064	0,6	55064	1,2
35	Bucket bolt	53065	0,04	53065	0,04	55065	0,04
36	Elevator belt EP500/4	91160	2,8	91164	6,3	91166	10,4
	Elevator belt EP500/4	91161	4,0	91165	6,3	91167	10,4
	Elevator belt EP500/4 oil resistant	91162	2,8				
	Elevator belt EP500/4 oil resistant	91163	4,0				
37	Turnbuckle adjuster for bucket elevator boot	53314	0,6	54314	1,2	54314	1,2
38	Inlet piece 90°, Adjustable	53124	6,6	54058	14,57	55058	17,5
	Inlet piece 90°, Adjustable with 10mm PEHD	53124-P	9,0	54058-P	18,2	55058-P	21,3

Please state elevator type (T53/T54/T55) and part number, when ordering.

Maintenance T53/T54/T55

Maintenance				Log	
Description	**Daily**	**Every 200 hours**	**Yearly**	**Date**	**Initials**
Check for unusual sounds	x				
Check for unusual vibrations	x				
Check for arisen leaks	x				
Check that the motor is not covered with dust	x				
Check the belt for damages			x		
Tensioning of belt		x			
Retightening of motor			x		
Check motor bearings for noise	x				
Check the speedmonitor function	x				
Check the alignment sensor function	x				
Check oil level			x		
Change of gear oil			x		
Greasing of bearings		x			

*Life time lubricated bearings has to be replaced after 8000 hours.

Only original spare parts must be used.

Usage of not original parts leads to a loss of warranty as well as JEMA´s responsability regarding the CE marking.

JEMA

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JEMA

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