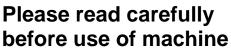


GAL-60 Series Conveyors Operating Manual















Also applies to: GAL-60-M **GAL-60-B GAL-60-K** GAL-60-KW GAL-60-ZW **GAL-60-Z GAL-60-S GKAL-60**

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1 Introduction

Our belt conveyors are provided for inside use only; they are not suitable for damp and wet locations or areas exposed to danger of explosion. However special versions, which are suitable for such areas, can be supplied after consultation and confirmation.

Maintenance of the belt conveyors is limited to an occasional check of the running of the belt. To adjust the belt we recommend strongly to observe the advice given in this operating manual.

2 Safety during handling of our belt conveyors

All our standard belt conveyors were designed with special emphasis on safety. Specially during operation of the belt conveyors, unnecessary risks have to be avoided. Thus the design of many components has been carried out in such a way that the risk to injury of the operating personnel is minimised.

2.1 Safety equipment on our belt conveyors

One of the most frequent type of accidents when working on or with conveyors is injury sustained to parts of the body which are caught between the circulating belt and the rotating rollers. To make these accidents impossible or to minimise this risk to the widest extent, all Dorner belt conveyors are equipped with a gap protection wherever the belt runs over a roller. This gap protection is designed in such a way that during adjustment work it is automatically positioned in correct relation to the roller.

To avoid damages to electrical equipment and to minimise the risk of electrical shock, all parts of our belt conveyors are connected to earth.

For all our belt conveyors we provide a safety switch which cuts-off the current to the unit automatically in the case of overload or overheating. In addition to that each conveyor has an emergency-stop-switch to switch-off the belt conveyor quickly in any case of emergency. See also section 3.4.

If a belt conveyor is delivered without safety switch or emergency stop switch, the operator must ensure a correct set-up of the machine and provide an opportunity to stop the belt in case of emergency.

2.2 General advice for the correct handling of belt conveyors

Any work or installation on the mechanical part of the conveyors may only be carried out by a mechanic or personnel with equivalent education or indoctrination. Any work or installation on the electrical part of the conveyors may only be carried out by an electrician or personnel with equivalent education or indoctrination.

The operators and all personnel working on or with a conveyor should wear suitable protective clothing. That includes safety shoes for protection against falling objects as well as tight fitting clothes and hair nets for people with long hair to minimise the risk of getting caught in the belt.

A functional test of the security-stop-switch should be performed daily. That includes a test of the protection against uncontrolled restart after a voltage drop. The conveyor may not start by it self after a voltage drop. It may only start after the actuation of a button.

The working height should be adjusted to an ergonomic level, if that is possible and wanted.

Touching the belt while it is running is prohibited. People may not be transported on the belt.

In case of an emergency the belt of the conveyor can be moved backwards by pulling on it.



2.3 Duties of the operator

The operator of a conveyor has to make sure that all requirements for a safe operation of the device are met. Therefore the following has to be taken into account:

- There has to be sufficient lighting at each persons workplace.
- The conveyors can only be used in inside areas.
- The maximum weights must not be exceeded. With this the danger of tipping over a conveyor on supports with wheels has to be taken into account.
- Accessory added later must not endanger the operators.

2.4 Safety trade marks

Some of our standard belt conveyors can be equipped with special safety trade marks. These will be attached to the machine on request.

Based on an individual application of the belt conveyor, an individual adaptation may be required. This can be provided by us as the manufacturer or by the client himself. In both cases, a cancellation of the validity of the safety trade mark may be the result.



3 Dimensions and technical data

3.1 Basic dimensions

The most important dimensions of the belt conveyors GAL-60, GAL-60-M, GKAL-60, GAL-60-B, GAL-60-K, GAL-60-KW, GAL-60-S, GAL-60-Z and GAL-60-ZW are shown in the following figures:

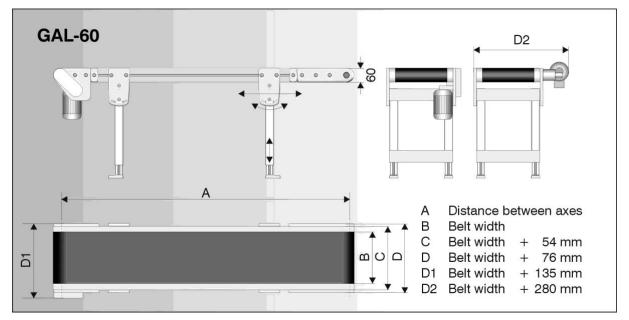


Figure 3-1: Basic dimensions GAL-60

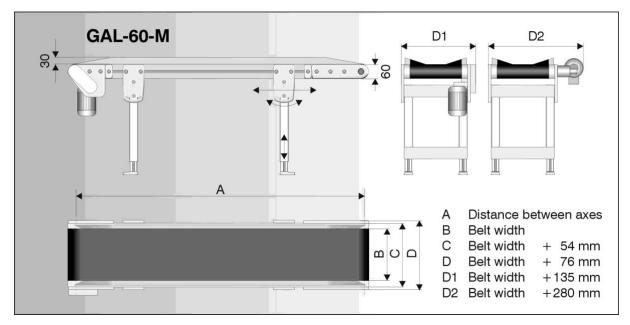


Figure 3-2: Basic dimensions GAL-60-M



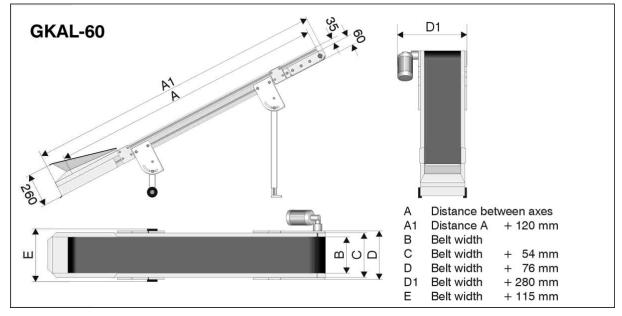


Figure 3-3: Basic dimensions GKAL-60

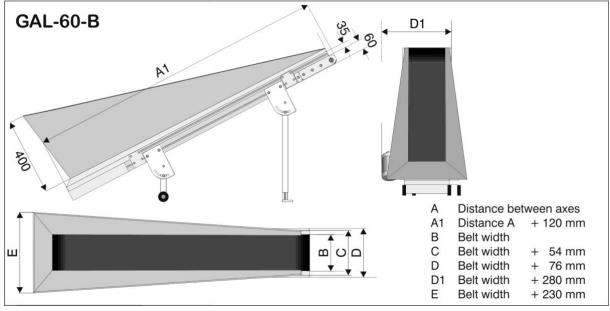


Figure 3-4: Basic dimensions GAL-60-B



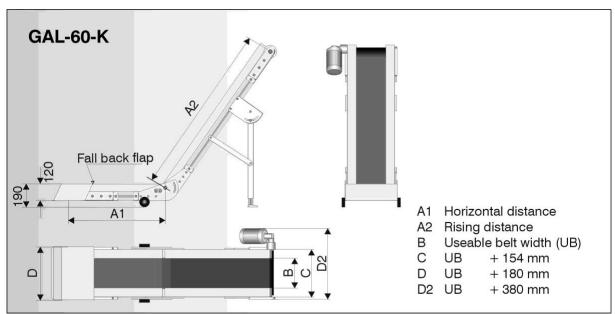


Figure 3-5: Basic dimensions GAL-60-K

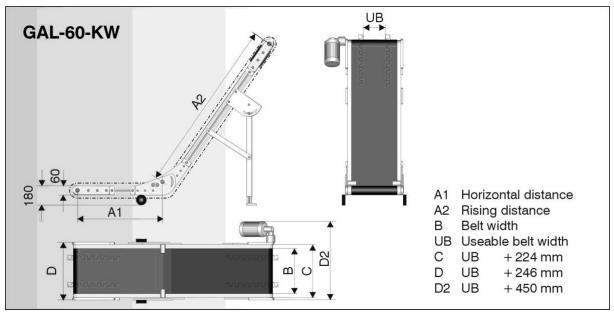


Figure 3-6: Basic dimensions GAL-60-KW





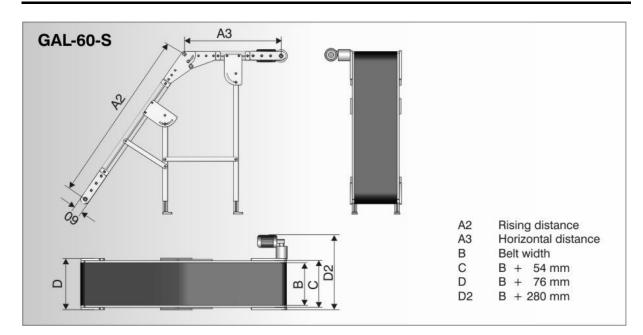


Figure 3-7: Basic dimensions GAL-60-S



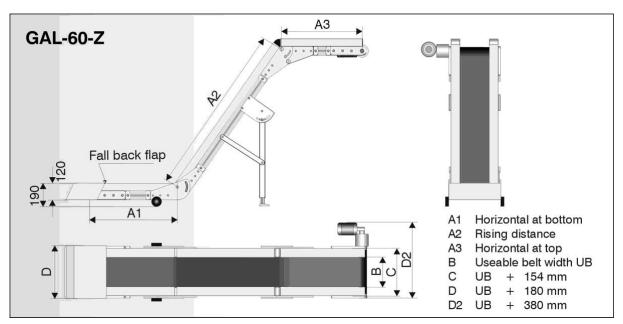


Figure 3-8: Basic dimensions GAL-60-Z

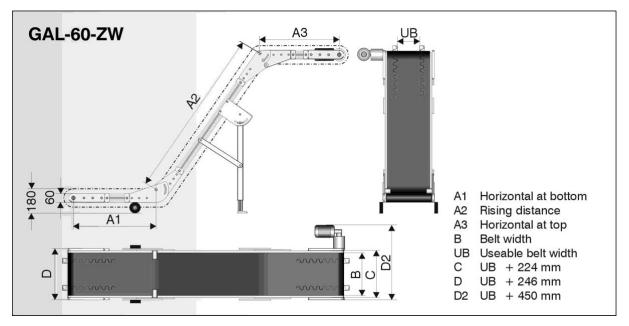


Figure 3-9: Basic dimensions GAL-60-ZW



3.2 Belts

The following table contains the technical data of our most frequently used belt types. All of these can be equipped with cross slats and corrugated edges.

| | Belt type | | | | | |
|--|-----------------|-----------------------------------|-----------------------------|----------------|-----------------|----------------|
| | G1 | G3 PVC | G3 PU blue | G3 PU white | G4 Mini | G4 Super |
| Load at elongation of 1% in N per mm width | 8 | 8 | 10 | 8 | 10 | 8 |
| Fabric type | Polyester | Polyester | Polyester, laterally stable | Polyester | Polyester | Polyester |
| No. of layers | 2 | 2 | 2 | 2 | 2 | 2 |
| Colour | grey | blue/green | blue | white | blue/green | blue/green |
| Material on carrying side | PVC | PVC | PU | PU | PVC | PVC |
| Surface on carrying side | fabric | smooth coated, slightly sticky | smooth matt | smooth matt | structured | structured |
| Thickness | 1,5 mm | 2,1 mm | 2,3 mm | 1,4 mm | 2,7 mm | 5,1 mm |
| Material on running side | fabric | fabric | fabric | fabric | fabric | fabric |
| Antistatic | no | yes | no | yes | no | no |
| Resistant against oil and grease | yes | partly | yes | yes | yes | no |
| FDA-approved | no | no | yes | yes | no | no |
| Temperature range | -10°C bis +80°C | -10°C to +80°C | -25°C to +90°C | -25°C to +90°C | -10°C to +110°C | -10°C to +80°C |
| Minimum diameter of roller | 30 | 30 | 30 | 30 | 30 | 60 |

Figure 3-10: Table on belt types

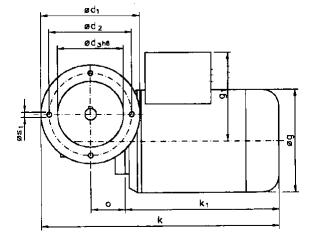


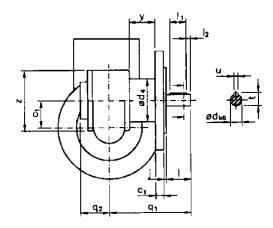
3.3 Motors

As a standard, our belt conveyors are equipped with three-phase AC motors and worm gears, protection class IP54. You can find dimensions and technical data of various standard motors below. Also special motors are available on request.

Adjustment and maintenance of drive chains and clutches are described in section 4.

3.3.1 Geared motor, type SN3F:



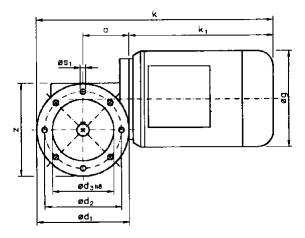


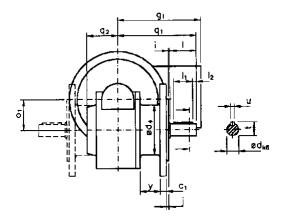
| | Mounting dimensions | | | | | | | Outline dimensions | | | | | | | | Shaft dimensions | | | | | | | | |
|----------------|--------------------------------|-----|-----------------------|---------------|---|-----------------|--|--------------------|-----------------------|-------|----------------|------|----|----|-----------------------|------------------|----|----|--|------|----------------|-------|------|---|
| C ₁ | $\operatorname{\mathrm{ød}}_1$ | | $\operatorname{ød}_3$ | ød_4 | j | ØS ₁ | | g | g ₁ | k | k ₁ | 0 | 01 | q | q ₁ | у | Z | ød | | - 1 | I ₁ | I_2 | t | u |
| 10 | 120 | 100 | 80 | 52 | 3 | M6 | | 125 | 108 | 288,5 | 187 | 41,5 | 33 | 99 | 35 | 30 | 74 | 14 | | 30,0 | 20 | 5 | 16,0 | 5 |

| Gearbox data | Gearbox data | | | | | | | | | | | | | | |
|-------------------------|--|---------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
| Motor data | ······································ | | | | | | | | | | | | | | |
| Gearbox ratio | 7:1 | 10 : 1 | 15 : 1 | 20 : 1 | 30 : 1 | 56 : 1 | | | | | | | | | |
| Gearbox speed | 200 rpm | 140 rpm | 93 rpm | 70 rpm | 47 rpm | 25 rpm | | | | | | | | | |
| Effective torque | 6,7 Nm | 10 Nm | 12 Nm | 12 Nm | 14 Nm | 17 Nm | | | | | | | | | |
| max. permissible torque | 12 Nm | 12 Nm | 13 Nm | 13 Nm | 13 Nm | 10 Nm | | | | | | | | | |



3.3.2 Geared motor, type SN9F:



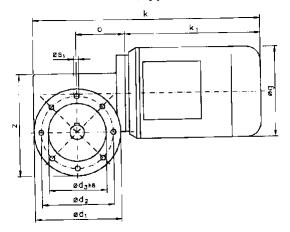


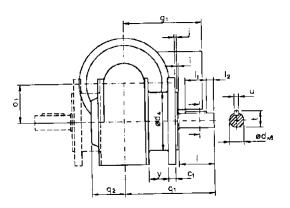
| | Mounting dimensions | | | | | | | Outline dimensions | | | | | | | | Shaft dimensions | | | | | | | | |
|-----------------------|--------------------------------|-----|----|---------------|---|-----------------|--|--------------------|-----------------------|-----|----------------|----|-----------------------|-----|-----------------------|------------------|-----|----|---|----|----------------|-------|----|---|
| C ₁ | $\operatorname{\mathrm{ød}}_1$ | | | ød_4 | j | ØS ₁ | | g | g ₁ | k | k ₁ | 0 | 0 ₁ | q | q ₁ | у | z | ød | i | Ι | I ₁ | I_2 | t | u |
| 8 | 120 | 100 | 80 | 65 | 3 | 7 | | 140 | 114 | 327 | 207 | 60 | 40 | 102 | 40 | 25 | 121 | 16 | 1 | 35 | 25 | 5 | 18 | 5 |

| Gearbox data | Gearbox data | | | | | | | | | | | | | | |
|-------------------------|--------------|---------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
| Motor data | | | | | | | | | | | | | | | |
| Gearbox ratio | 7:1 | 10 : 1 | 15 : 1 | 20 : 1 | 30 : 1 | 50 : 1 | | | | | | | | | |
| Gearbox speed | 207 rpm | 140 rpm | 93 rpm | 70 rpm | 47 rpm | 28 rpm | | | | | | | | | |
| Effective torque | 14 Nm | 20 Nm | 27 Nm | 29 Nm | 36 Nm | 48 Nm | | | | | | | | | |
| max. permissible torque | 30 Nm | 30 Nm | 28 Nm | 29 Nm | 30 Nm | 27 Nm | | | | | | | | | |



3.3.3 Geared motor, type SN8F:





| | Mounting dimensions | | | | | | | Outline dimensions | | | | | | | | | Shaft dimensions | | | | | | | |
|----------------|---------------------|-----------------|-----------------|---------------|---|-----------------|--|--------------------|-----------------------|-----|----------------|----|-----------------------|-----|-----------------------|----|------------------|----|---|----|----------------|-------|------|---|
| C ₁ | ød ₁ | ød ₂ | ød ₃ | ød_4 | j | øs ₁ | | g | g ₁ | k | k ₁ | 0 | O ₁ | q | q ₁ | у | Z | ød | i | Ι | I ₁ | I_2 | t | u |
| 10 | 120 | 100 | 80 | 80 | 3 | 7 | | 140 | 114 | 334 | 207 | 67 | 53 | 124 | 46 | 25 | 141 | 20 | 1 | 50 | 30 | 10 | 22,5 | 6 |

| Gearbox data | Gearbox data | | | | | | | | | | | | | | |
|-------------------------|--------------|---------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
| Motor data | | | | | | | | | | | | | | | |
| Gearbox ratio | 7:1 | 10 : 1 | 15 : 1 | 21:1 | 30 : 1 | 50 : 1 | | | | | | | | | |
| Gearbox speed | 210 rpm | 145 rpm | 93 rpm | 67 rpm | 47 rpm | 28 rpm | | | | | | | | | |
| Effective torque | 21 Nm | 28 Nm | 41 Nm | 50 Nm | 56 Nm | 60 Nm | | | | | | | | | |
| max. permissible torque | 56 Nm | 57 Nm | 60 Nm | 57 Nm | 59 Nm | 51 Nm | | | | | | | | | |



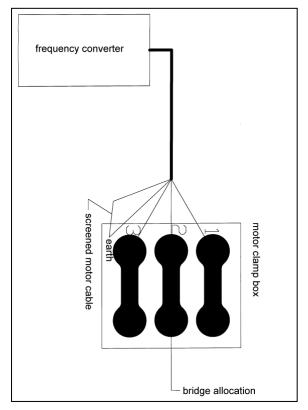
3.4 Electrical equipment

All our electrical equipment must only be exposed to liquids or dust within the regulations applicable to their protection type classification. Any contact to liquids or dust surpassing these limitations must be avoided.

3.4.1 Frequency converter

All of our belt conveyors – provided a regulated belt speed is required – can be equipped with a frequency converter which controls a robust three-phase AC motor.

The converter GB-FU 180 is used with all motors up to 180 W. Motors with a power between 180 and 370 W are equipped with the converter GB-FU 370. Motors of higher performance than 370 W are fitted with a specially adapted frequency converter.







All frequency converters are digital units which can be individually programmed.

Each frequency converter also provides a motor overload protection. Thus a destruction of the motor by a jammed belt conveyor through mechanical faults is virtually impossible. In this case, the frequency converter cuts-off the current supply. Frequency converters are connected to 230V 50Hz AC.

These units have a separate operating manual which will be provided with each delivery.

Figure 3-12: Connection of frequency converter to motor

Additionally the frequency converter incorporates a stop switch in form of a red push button for fast cut off in case of an emergency. After the drop or loss of current the conveyor also doesn't restart by itself. A dedicated start button has to be pushed.



3.4.2 Motor overload switch

All of our belt conveyors – provided a constant belt speed is required – can be equipped with a motor overload switch which controls a robust three-phase AC motor.

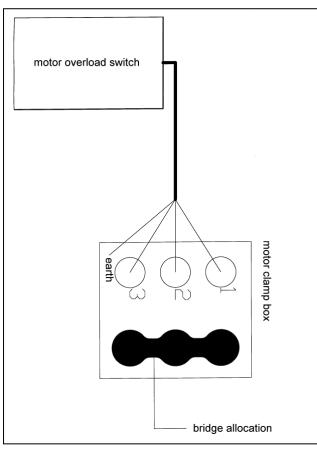


Figure 3-14: Connection of overload switch to motor



Figure 3-13: Motor overload switch

The motor overload switch protects the motor from overload. Thus a destruction of the motor by a jammed conveyor belt through mechanical faults is virtually impossible. In this case, the motor overload switch cuts-off the current supply. In addition, the motor overload switch is equipped with an emergency-stopswitch designed as a snap-switch providing a quick shut-down of the belt conveyor. The motor overload switch is connected to 380V 50Hz three-phase current.



3.4.3 Emergency-stop-switch

In addition, all belt conveyors can be equipped with one or more mushroom shaped emergencystop-switches.

The emergency-stop-switch is connected in series between power source and conveyor belt, so that actuating one of the switches shuts down the complete belt conveyor.

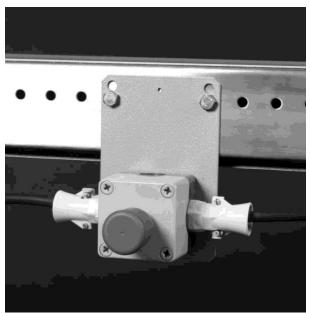


Figure 3-15: Emergency-stop-switch

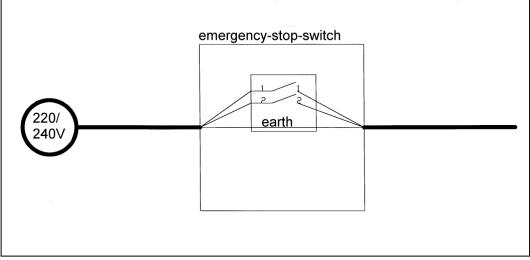
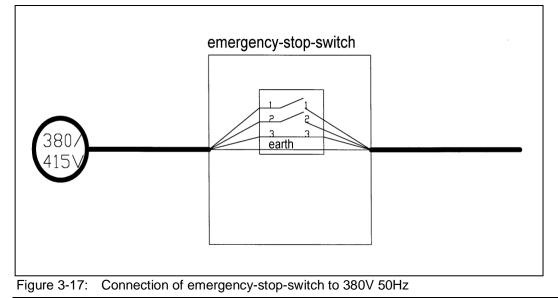


Figure 3-16: Connection of emergency-stop-switch to 230V 50Hz





4 Adjustments

Whenever adjustments are carried out, it has to be made sure that all covers or holders that had to be removed are reinstalled after the service and before the conveyors are used again.

4.1 Drives

4.1.1 Drive underneath the belt

If the drive motor is installed below the conveyor belt, correct tensioning of the drive chain must be ensured. The chain should be slightly greased.

For adjustment of drive chain, first remove the chain cover (A) from the motor support plate (B) as shown in the opposite figure. Remove the screws (C).

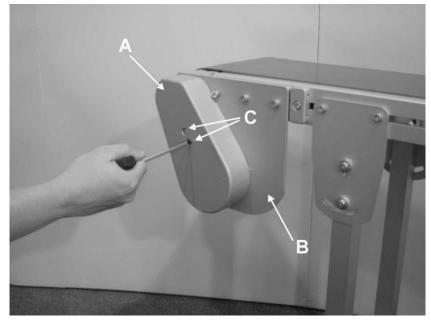


Figure 4-1: Removal of chain cover

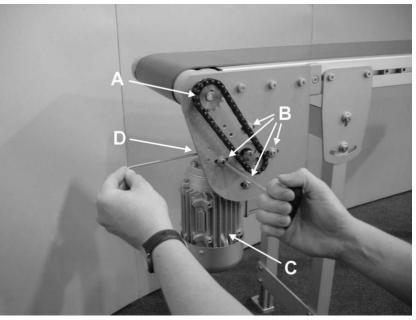
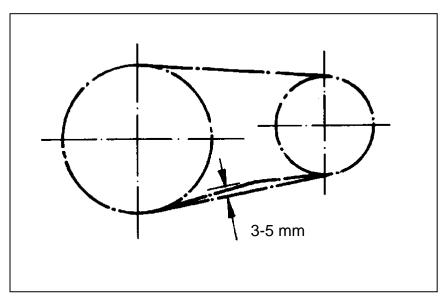


Figure 4-2: Adjustment of chain slack

Then, as shown in the opposite figure, the slack of the chain (A) can be adjusted. At first undo the fixing screws (B). Then the motor (C) can be moved by turning the adjustment screw (D).



The slack of chain (A) should be 3 - 5 mm as shown in the opposite figure. After adjustment of the chain tension, retighten the fixing screws (C) firmly. Then check again whether the slack of chain (A) is within the given tolerance.







4.1.2 Side mounted drive

If the drive motor is installed at the side of the conveyor belt, a correct adjustment of the clutch must be ensured.

As shown in the opposite figure, the motor (A) must be removed by undoing the fixing screws (B) to be able to adjust the clutch.

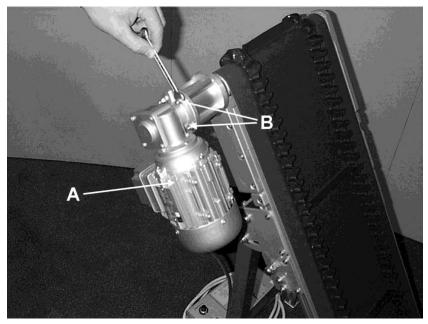


Figure 4-4: Dismounting side motor

If the clutch housing (E) is positioned between motor (A) and flange (F), then the distance between the clutch wheels (C) of the motor and the drive roller (D) must be approximately 15 mm, see the opposite figure. After adjustment of distance, the clutch sleeve (not shown in the figure) must be put on again on the clutch wheel (C) fitted to the drive roller (D). The fixing screws (B) must be retightened.

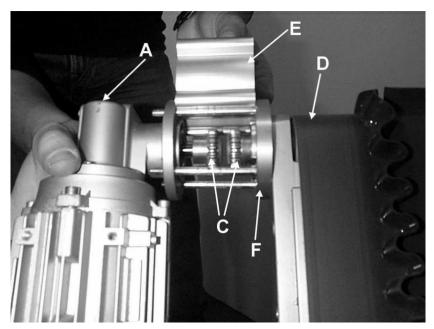


Figure 4-5: Adjustment of clutch play



If the motor is installed at the side of the conveyor belt, it can be mounted at 90° angular intervals around the flange, see the opposite figure.

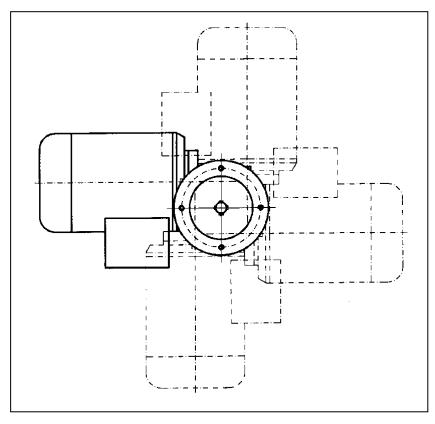


Figure 4-6: Rotated installation positions of the motor



4.2 Belt alignment

The belt reacts to a repositioning of the brackets holding the roller as it is shown in the opposite figure.

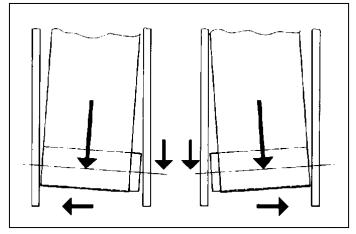


Figure 4-7: Belt reaction to different bracket positions

With longer belt conveyors, supporting rollers are used on the underside of the conveyor to hold the belt up on its way back. These rollers can also be used for tracking of the belt. The following figure shows the reaction of the belt tracking when the holding plates of the supporting rollers are shifted.

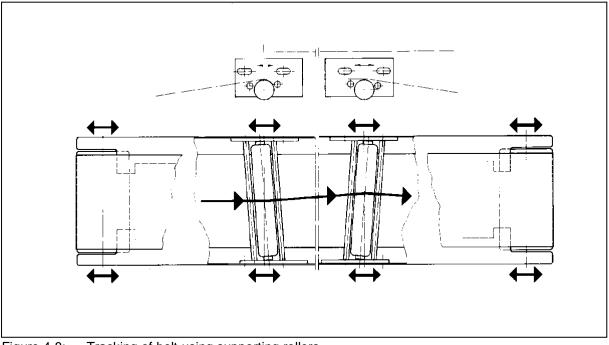


Figure 4-8: Tracking of belt using supporting rollers

Attention:

In the case of kinked belt conveyors, always adjust the course of the belt at the kink first, then follow with deflecting and drive rollers.



4.2.1 Driving and deflecting roller:

To align the belt track on the driving or deflecting roller, loosen slightly the fixing screws (A) of the head piece (B), see the opposite figure. The fixing screw (C) of the positioning block (D) must be tightened firmly. The head unit (B) can then be moved in relation to the frame (E) by turning the adjustment screws (F). After adjustment, the fixing screws (A) must be firmly retightened.

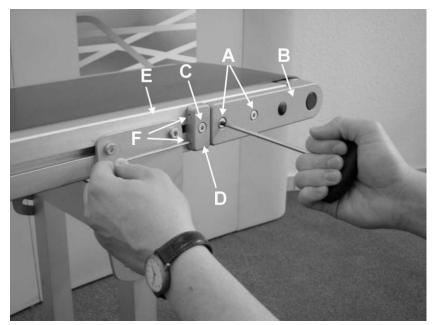


Figure 4-9: Belt alignment at driving and deflecting roller

4.2.2 Belt alignment at kink of GAL-60-K/KW:

Attention:

In the case of kink conveyor belts, always adjust the track of the belt at the kink first, then follow with deflector and drive rollers.

Before the adjustment of the belt tracking, the axial distances of all frame segments of the belt conveyors left side must be identical with the distances on the right side. An example is shown in the opposite figure. If the distance between head unit (A) of the deflection roller and shaft centre of the kink roller (B) on the left side of the conveyor belt is 500mm, then the distance on the right side must also be 500mm.

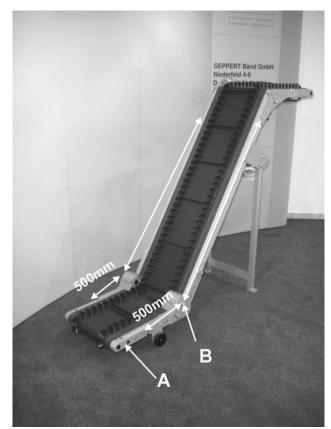


Figure 4-10: Axial distances on kinked belt conveyor



To align the belt in the area of the kink, the fixing screws (A) of the kink fittings (B) in the elevating part A2 must be loosened, see the opposite figure. The fixing screw (C) of the positioning block (D) must be firmly tightened. Then the position of the kink roller (E) can be changed by turning the adjustment screws (F). At first the belt must run centrally across the kink roller (E), then you can continue to align the belt on the drive or deflection roller. Retighten the fixing screws (A) firmly after adjustment.

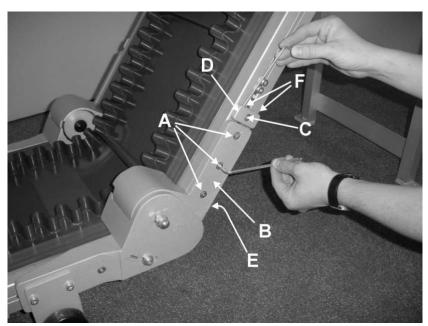


Figure 4-11: Belt alignment in the lower kink

4.2.3 Belt alignment at upper kink of GAL-60-Z/ZW und GAL-60-S:

For the adjustment of the upper kink of Z-shaped conveyors, the same rules apply as for the adjustment of the lower kink.

Before the adjustment of the belt tracking in the upper kink, the axial distances of all frame segments of the belt conveyors left side must be identical with the distances on the right side. An example is shown in the opposite figure. If the distance between kink fitting (A) of the upper kink and kink fitting (B) of the lower kink on the left side of the conveyor belt is 1000mm, then the distance on the right side must also be 1000mm.



Figure 4-12: Axial distances on Z-shaped belt conveyor



To align the belt in the area of the upper kink, the fixing screws (A) of the kink fittings (B) in the elevating part A2 must be loosened, see the opposite figure. The fixing screw (C) of the positioning block (D) must be firmly tightened. Then the position of the kink roller (E) can be changed by turning the adjustment screws (F). At first the belt must run centrally across the kink roller (E) in the upper kink and, as described in the previous section, across the kink roller in the lower kink, then you can continue to align the belt on the drive or deflection roller. Retighten the fixing screws (A) firmly after adjustment.

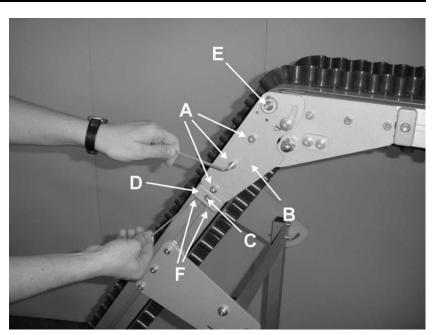


Figure 4-13: Belt alignment in upper kink



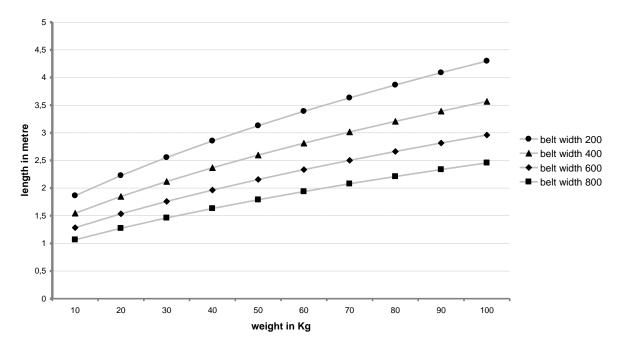
4.3 Supports

4.3.1 Protection against tip-over of flat belt conveyors

Conveyors that are equipped with supports designed for a bolted connection to the ground should always be secured by such a joint.

Some of our support models come with security casters with brakes. With these the conveyor can easily be used at different locations. But these supports are less stable than those without wheels. Therefore the transport of the conveyor to a new location using a ramp or going up an inclination has to be additionally secured, because the conveyor might tip over.

While the conveyor is in use the supports should always be oriented as much towards the ends of the conveyor as possible. For a distance of 400mm between the end of the conveyor and the centre of the support (distance a) the following diagram shows the maximum weight admitted on the conveyor end for a known width and length of the conveyor.



Maximum weight at end of belt for GAL-60 with supports on wheels

Figure 4-14: Maximum weight at end of conveyor with supports on wheels



4.3.2 Two-legged aluminium support

The aluminium double upright is continuously adjustable in height. At first the fixing screws (A) of the cross bar (B) must be loosened, see the opposite figure. Then the upright insert (C) can be pulled out of the tube (D). The standard adjustment range is 200mm. After adjustment, retighten firmly the two fixing screws (A).

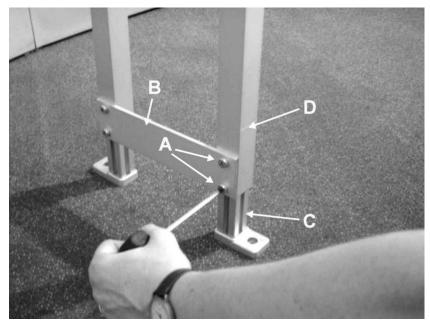


Figure 4-15: Two-legged aluminium support, height adjustment

The aluminium double upright can also be continuously adjusted in its inclination. At first the fixing screws (A) must be loosened on the upright plate (B), like in the opposite figure. Then the head of the upright can be pivoted in the guidance (C) of the plates (B) from +30° up to -30°. In vertical position, the head of the upright snaps into the lock-in position (D) and is consequently secured against unintended pivoting. The aluminium double upright is also available with plates as a pivoting version ranging from horizontal up to vertical position.

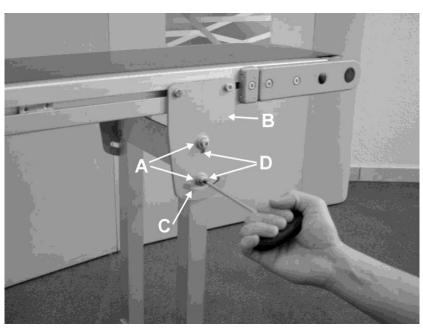


Figure 4-16: Two-legged aluminium support, inclination adjustment

4.3.3 Two-legged aluminium support, short version

A shortened variant of the aluminium double upright is equipped with fixed castors. It is also heightadjustable as described in section 4.3.2, however, the adjustment range is only 50 mm and is intended to level out ground irregularities. The adjustment of inclination is the same as described in section 4.3.2.



4.3.4 Two-legged steel support

The steel double upright can be continuously adjusted in height. At first the fixing screws (A) of the cross bar (B) must be loosened, as shown in the opposite figure. Then the insert (C) can be pulled out of the upright tube (D). An adjustment range of 200mm is available as a standard. After adjustment, the two fixing screws (A) must be firmly retightened.

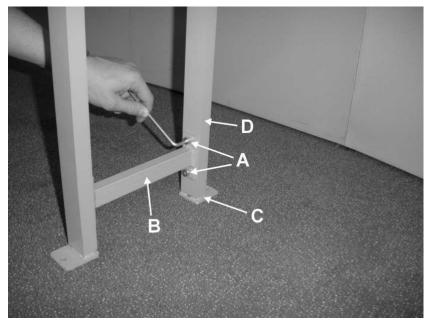


Figure 4-17: Two-legged steel support, height adjustment

The steel double upright can also be continuously adjusted in its inclination. At first the fixing screws (A) must be loosened on the upright plate (B), like in the opposite figure. Then the head of the upright can be pivoted in the guides (C) of the plates (B) from +30° up to -30°. In vertical position, the head of the upright snaps into the lock-in position (D) and is consequently secured against unintended pivoting. The steel double upright is also available with plates as a pivoting version ranging from horizontal up to vertical position.

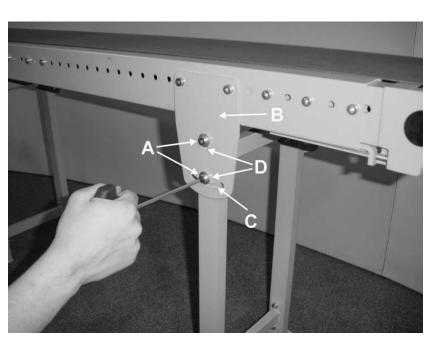


Figure 4-18: Two-legged steel support, inclination adjustment

4.3.5 Two-legged steel support, short version

A shortened variant of the steel double upright is equipped with fixed castors. It is also heightadjustable as described in section 4.3.4, however, the adjustment range is only 50 mm and is intended to level out ground irregularities. The adjustment of inclination is the same as described in section 4.3.4.



4.3.6 Short steel support held from side

To adjust the height of a short steel support held from the side, first loosen the fixing screws (A) on the side plate (B), like in the opposite figure. Then the short support (C) can be adjusted within the guide (B). After adjustment, retighten the two fixing screws (A) firmly.

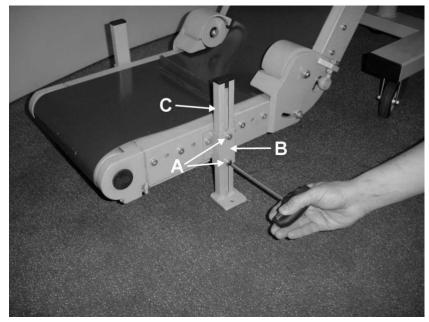


Figure 4-19: Short steel support held from side, height adjustment

4.3.7 Two-legged stainless steel support

The two-legged stainless steel support provides the same adjustment features as the two-legged steel support. It also exists in the same variants, i.e. the short version with fixed casters and the short version held from the side.



4.3.8 Single-legged steel support with aluminium base plate

The single-legged steel support with aluminium base plate can be continuously adjusted in height. First loosen the fixing screw (A) on the adjustment ring (B), see the opposite figure. The forked pipe (C) can then be pulled out of the standpipe (D). The adjustment range is 200mm. After adjustment, retighten the fixing screw (A) firmly.

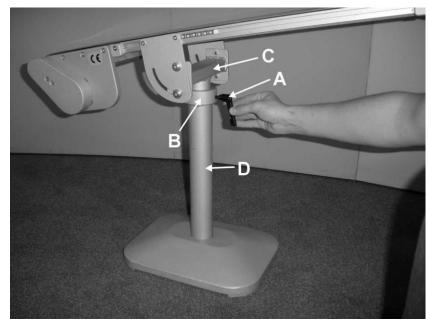


Figure 4-20: Single-legged steel support with aluminium base plate, height adjustment

The single upright made of steel can also be continuously adjusted in its inclination. At first the fixing screws (A) must be loosened on the upright plate (B), like in the opposite figure. Then the head of the upright can be pivoted in the guides (C) of the plates (B) from horizontal to vertical position.



Figure 4-21: Single-legged steel support with aluminium base plate, inclination adjustment

4.3.9 Steel H-shaped single-legged support

The steel H-shaped single-legged support provides the same adjustment features as the steel single upright with aluminium base plate.



4.3.10 Steel H-shaped single-legged support with castors

The steel H-shaped singlelegged support with castors provides the same adjustment features as the H-single upright made of steel. In addition, it is equipped with Total-Stop-Safety castors as shown in the opposite figure. When the brake is actuated, the upright is secured against unintentional movement.

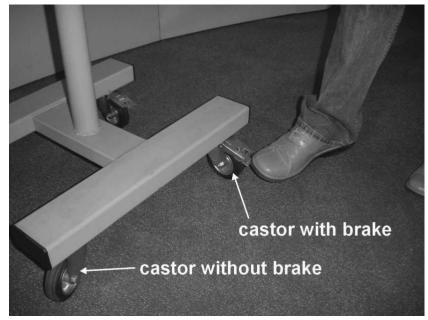


Figure 4-22: Steel H-shaped single-legged support, brake

4.3.11 Stainless steel H-shaped single-legged support

The stainless steel H-shaped single-legged support provides the same adjustment features as its steel version described under 4.3.9.

4.3.12 Stainless steel H-shaped single-legged support with castors

The stainless steel H-shaped single-legged support with castors provides the same adjustment features as its steel version described under 4.3.10.



4.4 Kinks

The kink angle of all our conveyor belts can be adjusted between 40° and 60° from horizontal position. The adjustment of angles lower than 40° is not recommended, because this would have negative effects on the belt track. Before making any angle adjustment on one of our kinked conveyor belts, the belt must be slackened by loosening the deflection roller as described in section 4.2. After each change, the belt must be realigned as described in section 4.2.

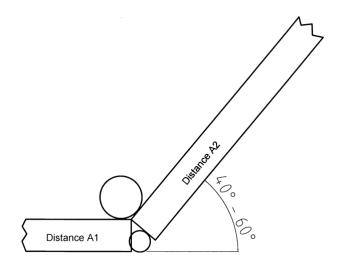


Figure 4-23: Adjustable kink, angle range

To adjust the angle of the kink in the GAL-60-K/KW, or of the lower kink in the GAL-60Z/ZW, the fixing screw (A) on the kink fitting (B) must be loosened, see the opposite figure. The angle of the kink can then be changed. After adjustment of the kink angle, the fixing screw (A) must be firmly retightened.

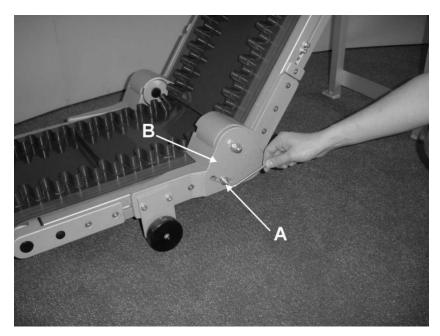


Figure 4-24: Adjustment of kink angle



To adjust the angle of the upper kink in the GAL-60-Z/ZW, the fixing screw (A) on the kink fitting (B) must be loosened, see the opposite figure.

The angle of the kink can then be changed. After adjustment of the kink angle, the fixing screw (A) must be firmly retightened.

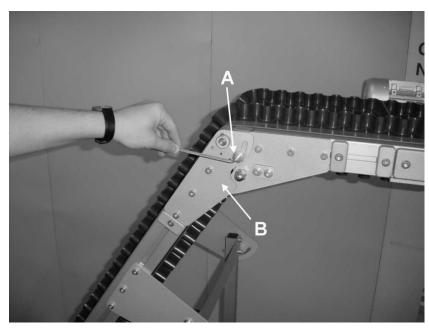


Figure 4-25: Adjustment of kink angle in upper kink

5 Spare parts

All components of the belt conveyor GAL-60, GAL-60-B, GAL-60-M, GKAL-60, GAL-60-K, GAL-60-KW, GAL-60-S, GAL-60-Z and GAL-60-ZW are shown in the following exploded views. Any part on your conveyor, that is not shown in these views, is a specially adapted part. We keep a full record of all special parts in our production files. Please contact us directly if you need any help on one of these parts.

