mk Belt Conveyors

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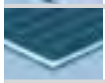
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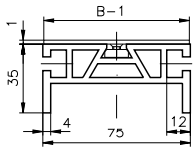
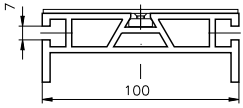
Belt Conveyors
GUF-P MINI

Conveyor frame profiles

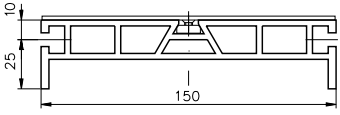
mk 2075



mk 2100



mk 2150



Due to its compact design, GUF-P MINI conveyors are ideally suited for equipment applications such as stamping machines, for example, where its small size and rigidity are an asset. The available T-slots (7 mm opening) of Profile mk 2075, mk 2100 or mk 2150 can be used to attach stands, side rails or other components. This single profile frame construction ensures a rigid structure with good load carrying ca-pacity, whereby given values for load, speed, etc. are directly related and can vary as a result.

The drive rolls of the different versions can be rubberized in order to efficiently transfer all available motor torque to the belt. Crowned drive and tail drums simplify belt tracking and ensure proper alignment of the belt along the centerline of the frame. The belt travels on a stainless steel slider bed which is fastened to the frame profile, thus providing low friction and ensuring long belt life. Finally, the underside of the frame extends to not only protect the belt, yet allows the conveyor to be placed directly onto an existing surface.

Belt Conveyors
GUF-P MINI

Drive Version AA

Drive Version AC

Drive Version AD

Drive Version AG

Drive Version BA

Drive Version BC

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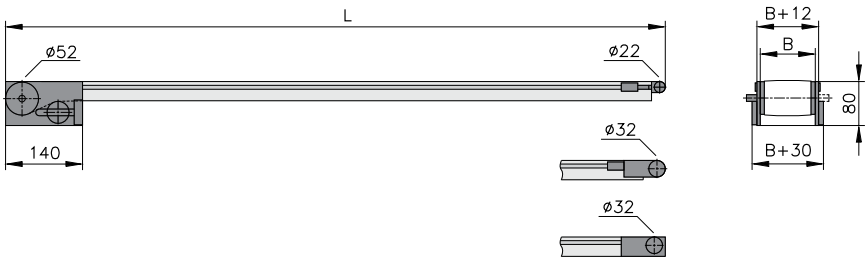
GUF-P MINI AA

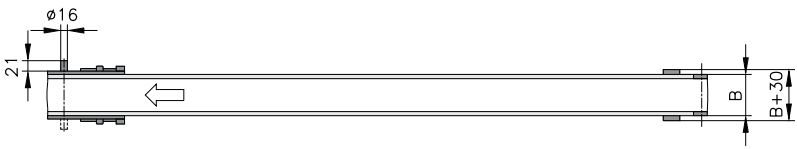
Belt Conveyors with Head Drive, without Motor

B20.75.009



Drive shaft on both sides also available.
Please specify this when inquiring.

Tails
see page 33



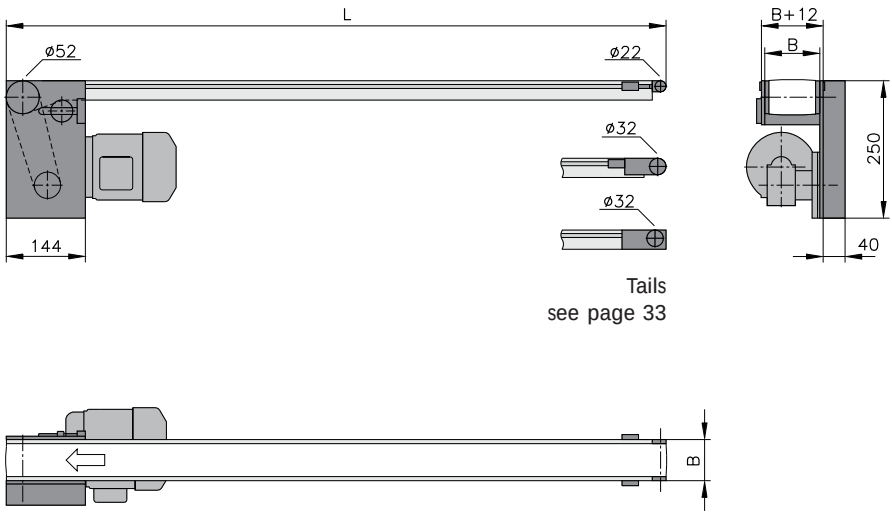
Features:
Drive Version AA is often used where multiple lanes are to be slave driven, either parallel or in-line, with a single drive motor. The compact frame is ideal for integrating this conveyor into new or existing equipment. Additional features include a ø 52 mm crowned drive roll, separate belt tension roller, easy belt tracking at tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Use of cleated belts is not possible with this drive version. The ø 16 mm output shaft has a usable length of 19 mm and includes a 5 x 5 x 16 mm shaft key (DIN 6885).

	Dimensions – Technical Information	Notes
Conveyor length L	between 365 - 5000 mm	any increment possible
Conveyor width B	75 mm, 100 mm and 150 mm	
Belt Width	B-15 mm	see page 86
Drive and Speed	to 60 m/min (200 ft/min)	see page 32
Stands and Side Rails		see page 262
Load Capacity max.	25 kg (55 lbs)	higher on request

GUF-P MINI AC

Belt Conveyors with Head Drive

B20.75.001



Tails
see page 33

Features:
mk offers a variety of motor options for Drive Version AC, which are sized and selected for each application's individual speed and load requirements. The compact frame is ideal for integrating this conveyor into new or existing equipment. Additional features include a ø 52 mm crowned drive roll, separate belt tension roller, easy belt tracking at tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Use of cleated belts is not possible with this drive version.

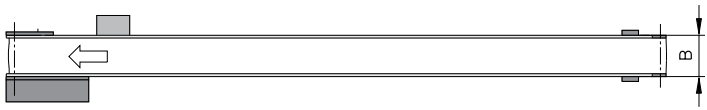
	Dimensions – Technical Information	Notes
Conveyor length L	between 370 - 5000 mm	any increment possible
Conveyor width B	75 mm, 100 mm and 150 mm	
Belt Width	B-15 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	to 60 m/min (200 ft/min)	see page 32
Stands and Side Rails		see page 262
Load Capacity max.	25 kg (55 lbs)	higher on request

GUF-P MINI AD

Belt Conveyors with Head Drive

B20.75.033

Tails
see page 33



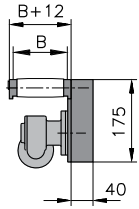
Features:
mk offers a variety of motor options for Drive Version AD, which are sized and selected for each application's individual speed and load requirements. The compact frame is ideal for integrating this conveyor into new or existing equipment. Additional features include a ø 32 mm crowned drive roll, easy belt tensioning and tracking at tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. The ø 32 mm drive roll allows for the use of cleated belts. Compared to Drive Version AC, this version is significantly more compact.

	Dimensions – Technical Information	Notes
Conveyor length L	between 375 - 5000 mm	any increment possible
Conveyor width B	75 mm, 100 mm and 150 mm	
Belt Width	B-15 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	to 15 m/min (50 ft/min)	see page 32
Stands and Side Rails		see page 262
Load Capacity max.	15 kg (33 lbs)	higher on request

GUF-P MINI AG

Belt Conveyors with Head Drive, Parallel Shaft Motor

B20.75.004



Tails
see page 33

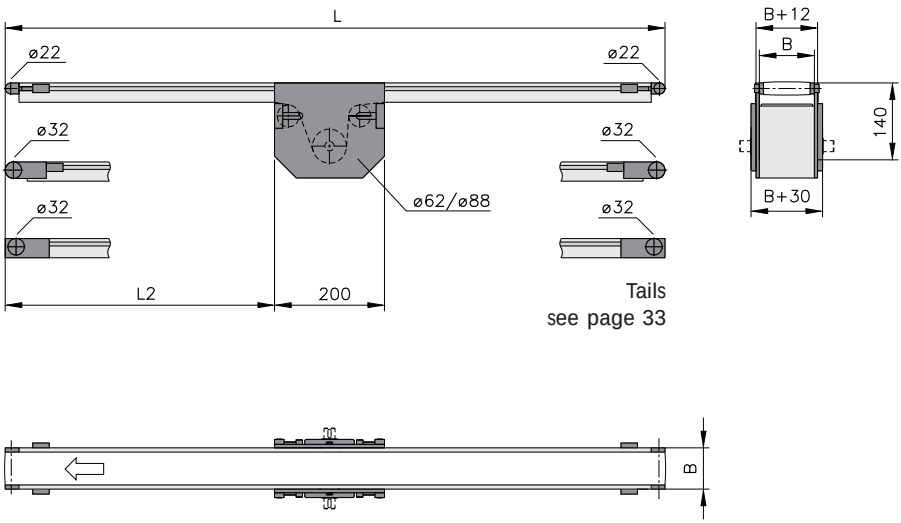
Features:
The AG drive with direct-current motor has a slightly modified structure compared to the AD drive. The compact frame is ideal for integrating this conveyor into new or existing equipment. Additional features include a ø 32 mm crowned drive roll, easy belt tensioning and tracking at tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. The ø 32 mm drive roll allows for the use of cleated belts. Compared to Drive Version AC, this version is significantly more compact.

	Dimensions – Technical Information	Notes
Conveyor length L	between 375 - 5000 mm	any increment possible
Conveyor width B	75 mm, 100 mm and 150 mm	
Belt Width	B-15 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	to 15 m/min (50 ft/min)	see page 32
Stands and Side Rails		see page 262
Load Capacity max.	15 kg (33 lbs)	higher on request

GUF-P MINI BA

Belt Conveyors with Center Drive without Motor, bidirectional

B20.75.030



Tails
see page 33

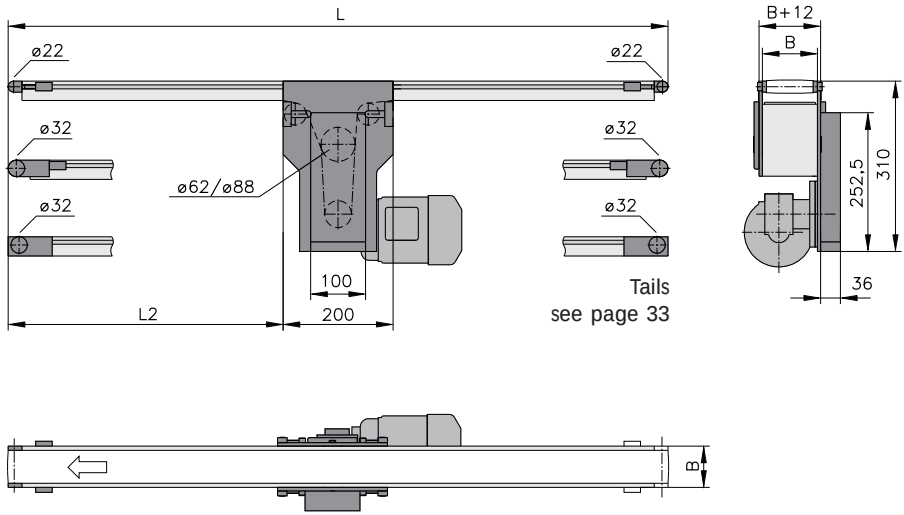
Features:
Drive Version BA is used primarily when driving multiple conveyors in parallel using one drive motor. This conveyor is used as the slave, or driven, lane. The compact design, and the ability to move the drive location anywhere along the conveyor frame, simplifies the integration of this conveyor into new or existing equipment. Additional features include a ø 62 mm crowned drive roll, separate belt tensioning and tracking, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Use of cleated belts is not possible with this drive version. The crowned drive roll features a ø 20 mm hollow shaft with a 6 mm keyway according to DIN 6885.

	Dimensions – Technical Information	Notes
Conveyor length L	between 530 - 5000 mm	any increment possible
Conveyor width B	75 mm, 100 mm and 150 mm	
Belt Width	B-15 mm	see page 86
Drive and Speed	to 60 m/min (200 ft/min)	see page 32
Stands and Side Rails		see page 262
Load Capacity max.	25 kg (55 lbs)	higher on request

GUF-P MINI BC

Belt Conveyors with Center Drive, bidirectional

B20.75.005



Features:
mk offers a variety of motor options for Drive Version BC, which are sized and selected for each application's individual speed and load requirements. When combined with Drive Version BA, this version serves as the driving conveyor in parallel arrangements. The compact design, and the ability to move the drive location anywhere along the conveyor frame, simplifies the integration of this conveyor into new or existing equipment. Additional features include a ø 62 mm crowned drive roll (depending on the application), separate belt tensioning and tracking, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Use of cleated belts is not possible with this drive version. The crowned drive roll features a ø 20 mm hollow shaft with a 6 mm keyway according to DIN 6885 and can be optionally located on the right or left.

	Dimensions – Technical Information	Notes
Conveyor length L	between 530 - 5000 mm	any increment possible
Conveyor width B	75 mm, 100 mm and 150 mm	
Belt Width	B-15 mm	see page 86
Drive Location	right, left	
Drive and Speed	to 60 m/min (200 ft/min)	see page 32
Stands and Side Rails		see page 262
Load Capacity max.	25 kg (55 lbs)	higher on request

GUF-P MINI

Motor Information

Motor selection

As a standard, mk offers a variety of motors. On our homepage (www.mk-group.com) we provide a calculation program for motor sizing for conveyors available in Germany. Although the selection varies by country with respect to local voltage standards and safety regulations, international availability is a key requirement. Typically, we supply inverter-duty right-angle gearmotors for heavy-duty requirements and parallel shaft gearmotors for lower speed and load applications.
All motors are readily available from mk.

Motor voltage

As a standard, mk provides motors which comply with the normal, expected electrical requirements of the country where they are manufactured. International motors are also available for conveyors designed for export.

Motor power

Motors are sized to each individual conveyor style, size and performance requirements. The typical range is between 0.054 KW and 0.25 KW (1/14 hp and 1/3 hp).

Speeds

The maximum belt speed for GUF-P MINI conveyors is approximately 60 m/min (200 ft/min). This is dependant on the total load, the type of transport with respect to indexing or accumulation, and the conveyor length. For Drive Versions with parallel shaft gearmotors the maximum speed is 15 m/min (50 ft/min).

Speed Control

Frequency inverters with a variable speed range of 1:7 are available for AC motors. DC motors offer speed controls with a 1:10 range.

Rating

All standard motors are built to IP 54 (IP = International Protection) standards, whereby higher standards are available on request.

Additional notes

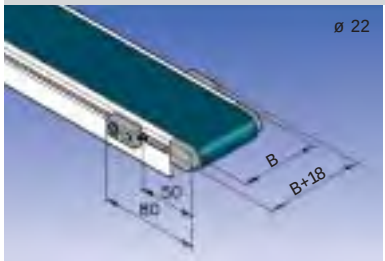
The motors are primarily designed for continuous duty. Operating motors at very low frequency (below 70% of normal) may require additional cooling. Motors with encoders, clutches, brakes, thermal overload protection or indexing capabilities are also available.

GUF-P MINI

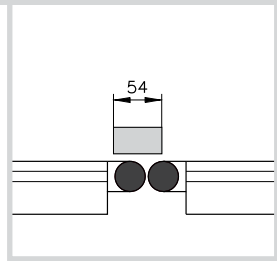
Tails

Tail 01

Ident-Nr. B80.01.002

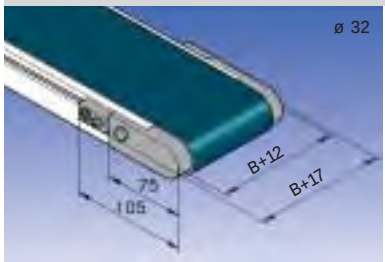


- ø 22 mm crowned roll
- Sealed bearings
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 54 mm
- Note mimimum pulley diameter when selecting belt

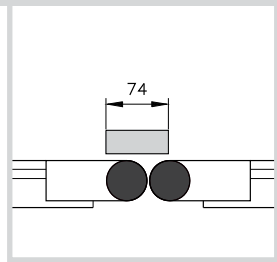


Tail 03

Ident-Nr. B80.01.001

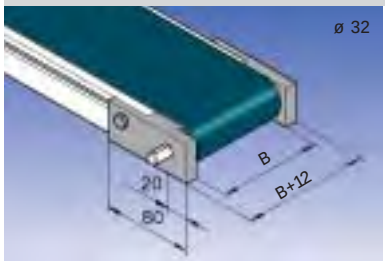


- ø 32 mm crowned roll
- Sealed bearings
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 74 mm
- Note mimimum pulley diameter when selecting belt

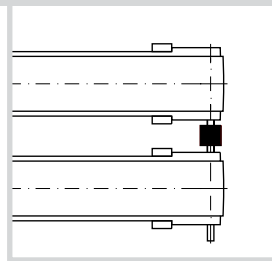


Tail 19

Ident-Nr. B80.01.004

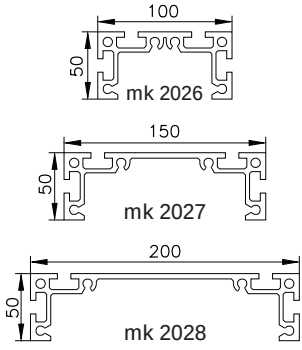


- ø 32 mm crowned roll
- Sealed bearings
- ø 10 mm x 15 mm long shaft, 3x3x12 mm shaft key (DIN 6885)
- Coupling of two lanes using one drive (specify right, left or both sides)
- Minimum part length for transfer 74 mm
- Note mimimum pulley diameter when selecting belt

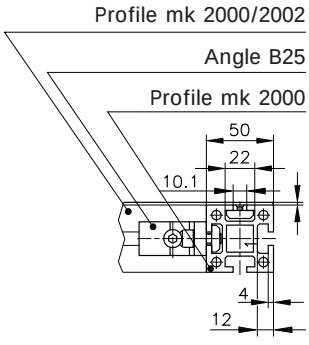


Belt Conveyors
GUF-P 2000

Conveyor frame profiles



Conveyor frame cross-section



GUF-P 2000 conveyors are designed and manufactured using our very rigid structural profile system mk 2000, and assembled using standard components. Through this standardization we are able to offer an extremely versatile belt conveyor with a wide variety of drive and tail options. A large selection of belt types complement the compact frame height of 50 mm and the ø 52 mm drive roll, which is available in either a steel or rubberized version depending on the application. All mk belt conveyor systems feature crowned rollers which significantly simplify belt tracking. Included system T-slots (10 mm opening) run the length of the conveyor frame which can be used for integration into existing equipment as well as for mounting of standard or customer-specfic stands, side rails and other accessories. Additional quality details include a stainless steel slider bed mounted to the conveyor frame which reduces wear on the belt, and sealed ball bearings for overall conveyor life and performance. In addition to the large selection of side rails and stands, stops, diverters, electrical brackets and V-guided belts are also available.

Belt Conveyors
GUF-P 2000

Drive Version AA

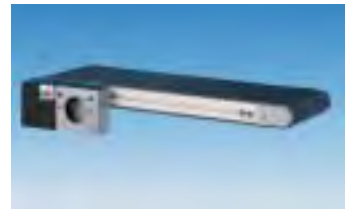
Drive Version AC

Drive Version AF

Drive Version AG

Drive Version AM

Drive Version AS



Drive Version AU

Drive Version BA

Drive Version BC

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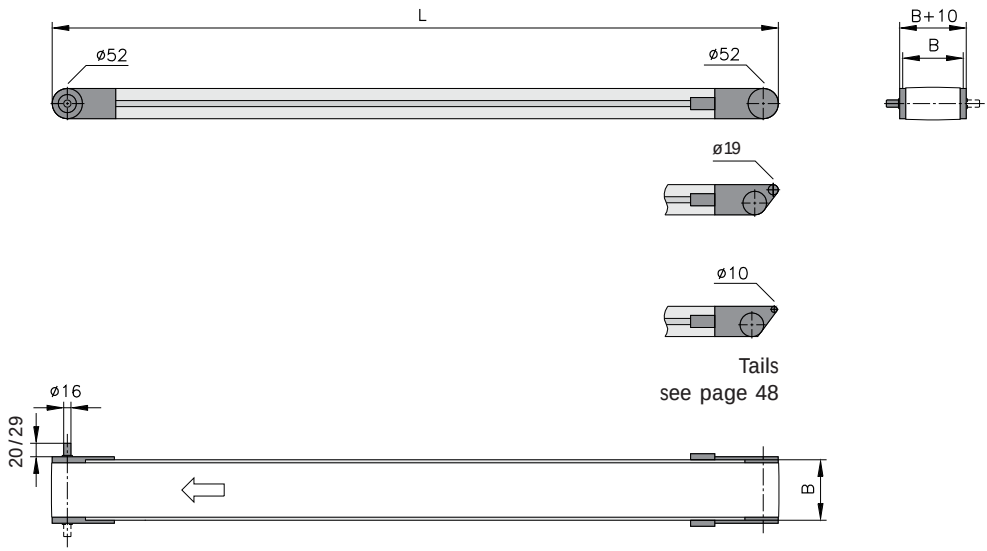
GUF-P 2000 AA

Belt Conveyors with Head Drive, without Motor

B20.00.009



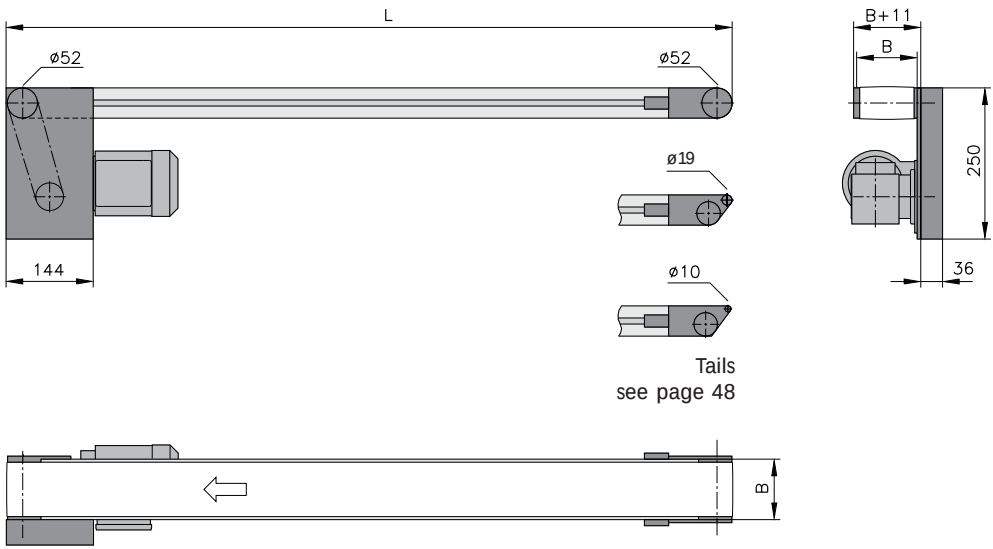
Features:
Drive Version AA is often used where multiple lanes are to be slave driven, either parallel or in-line, with a single drive motor. The series 50 frame is ideal most general purpose conveying applications. Additional features include a ø 52 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version. The ø 16 mm output shaft has a usable length of 20 mm for chain drive or 29 mm for timing belt drive. Both include a 5 x 5 x 16 mm shaft key (DIN 6885).

	Dimensions – Technical Information	Notes
Conveyor length L	between 410 – 10000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive and Speed	to 80 m/min (260 ft/min)	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	75 kg (165 lbs)	higher on request

GUF-P 2000 AC

Belt Conveyors with Head Drive

B20.00.002



Tails
see page 48

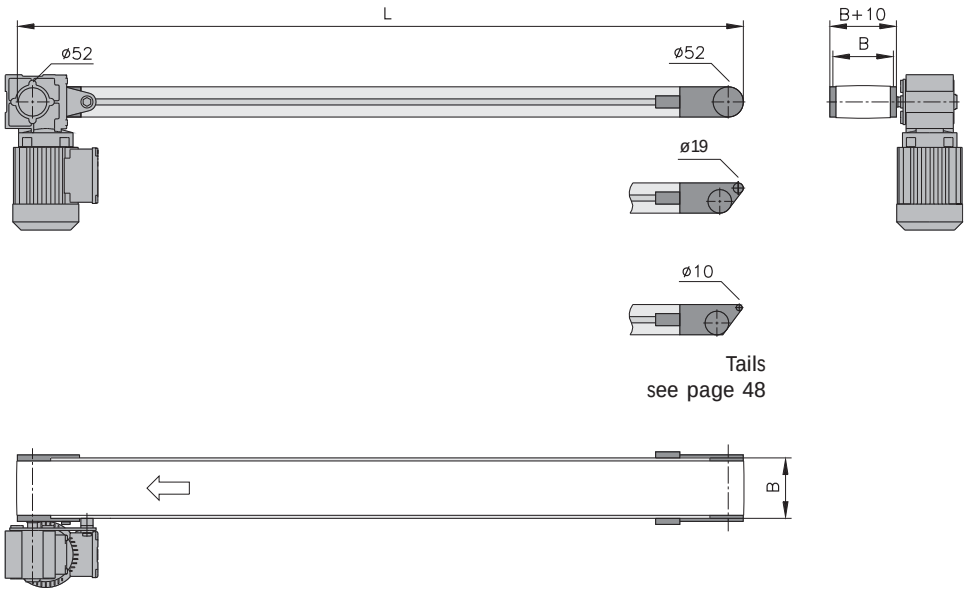
Features:
mk offers a variety of motor options for Drive Version AC, which are sized and selected for each application's specific speed and load requirements. The series 50 frame is ideal most general purpose conveying applications. Additional features include a ø 52 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 410 – 10000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right below, head left below, head right above, head left above	head left shown
Drive and Speed	to 80 m/min (260 ft/min)	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	75 kg (165 lbs)	higher on request

GUF-P 2000 AF

Belt Conveyors with Head Drive direct and Torque Arm

B20.00.011



Tails
see page 48

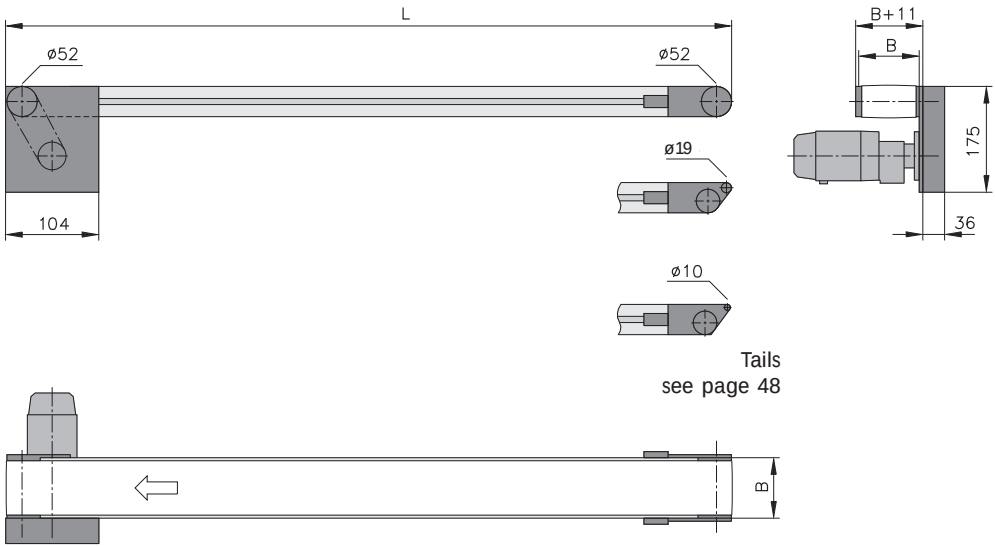
Features:
By placing the motor directly onto the drive shaft, this drive version minimizes not only the space required at the drive yet also the number of moving parts and maintenance requirements. The torque arm enables even large output torques to be transferred to the belt.

	Dimensions – Technical Information	Notes
Conveyor length L	between 410 - 10000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	2.8; 3.6; 4.4; 5.4; 6.5; 7.7; 8.7; 10.9; 12.9 and 14.9 m/min	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	30 kg (65 lbs)	higher on request

GUF-P 2000 AG

Belt Conveyors with Head Drive, Parallel Shaft Motor

B20.00.005



Tails
see page 48

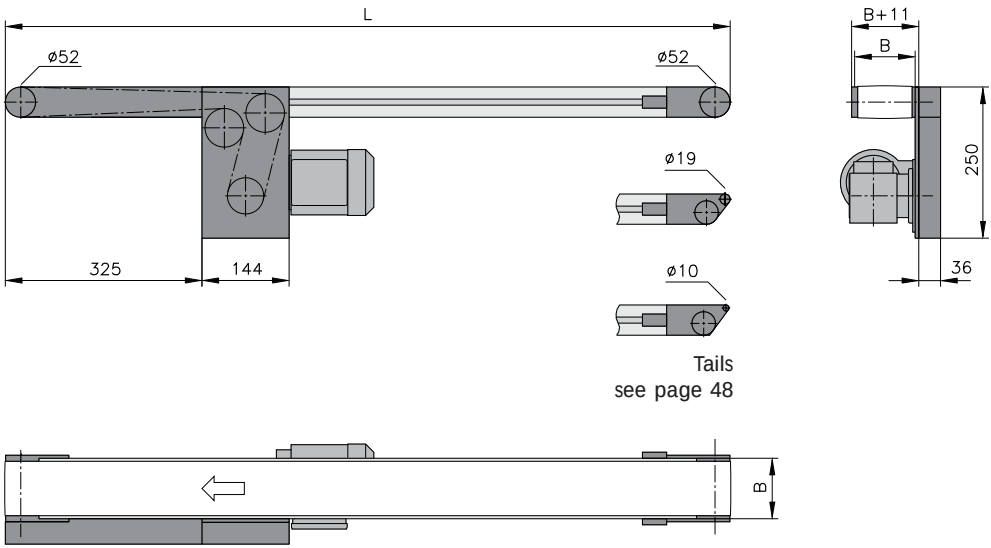
Features:
Drive Version AG differs from version AC due to the use of parallel shaft gearmotors. The series 50 frame is ideal most general purpose conveying applications. Additional features include a ø 52 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Drive Version AG is also dimensionally more compact than version AC due to the use of parallel shaft gearmotors.

	Dimensions – Technical Information	Notes
Conveyor length L	between 310 - 6000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right below, head left below, head right above, head left above	head left shown
Drive and Speed	to 15 m/min (50 ft/min)	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	15 kg (33 lbs)	higher on request

GUF-P 2000 AM

Belt Conveyors with Offset Head Drive

B20.00.003



Tails
see page 48

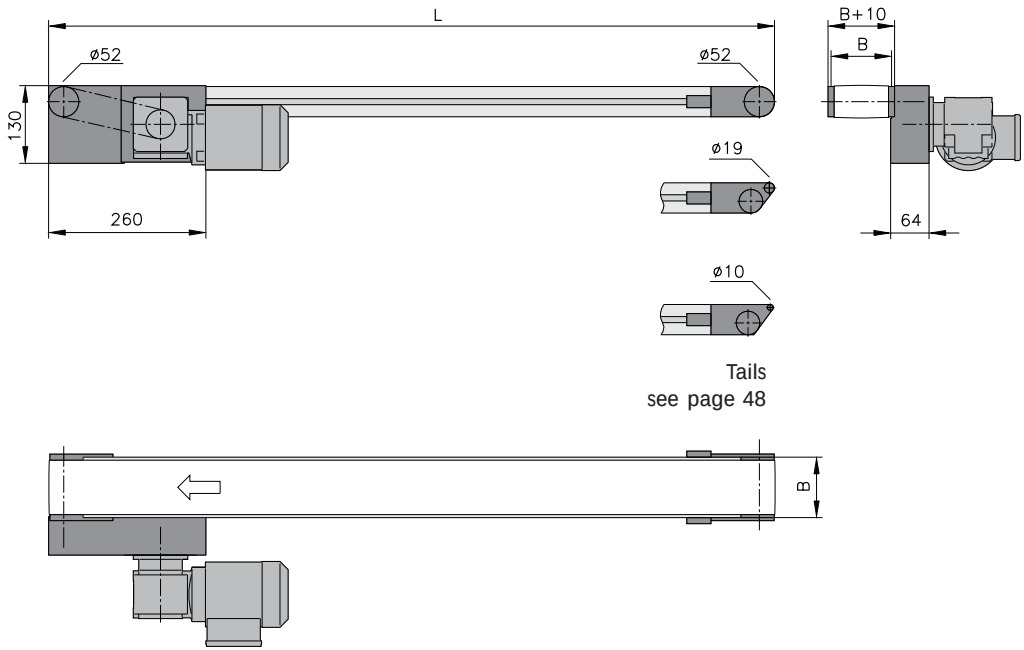
Features:
Drive Version AM combines the cost advantages of a head drive with the unobstructed discharge end of a center drive. This conveyor is ideal for feeding parts into or out of equipment. Additional features include a ø 52 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 735 - 10000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	to 80 m/min (260 ft/min)	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	75 kg (165 lbs)	higher on request

GUF-P 2000 AS

Belt Conveyors with Outside Head Drive

B20.00.008



Tails
see page 48

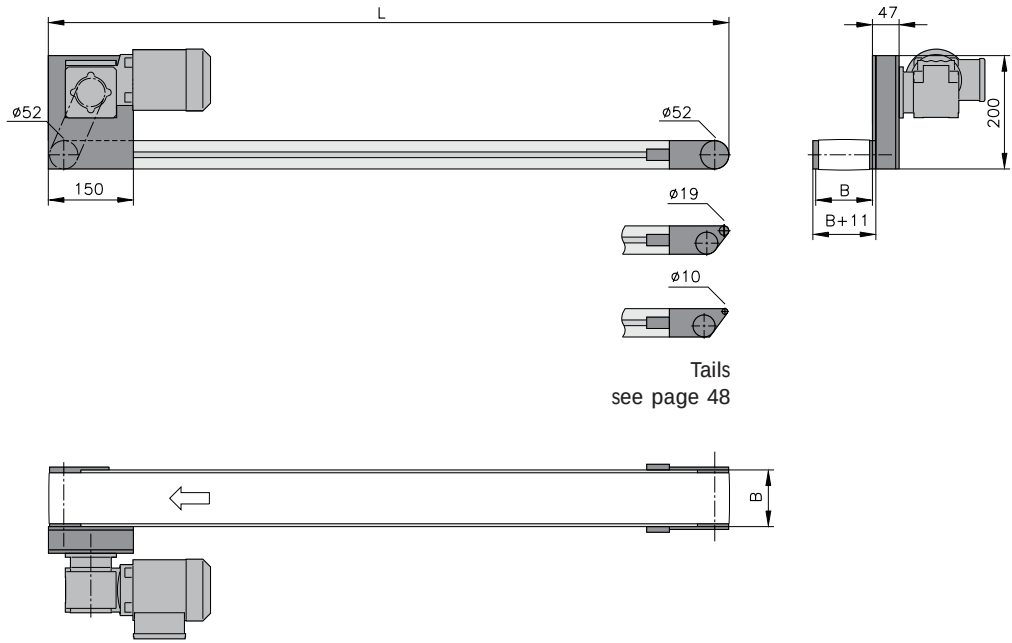
Features:
Drive Version AS features the motor mounted to an aluminum casting outside of the conveyor frame. This is used in situations where the conveyor frame must be unobstructed, or where the motor must remain clean. The conveyor can be placed very close to equipment. Additional features include a ø 52 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 525 - 10000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right below, head left below, head right above, head left above	head left shown
Drive and Speed	to 80 m/min (260 ft/min)	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	75 kg (165 lbs)	higher on request

GUF-P 2000 AU

Belt Conveyors with Outside Head Drive

B20.00.020



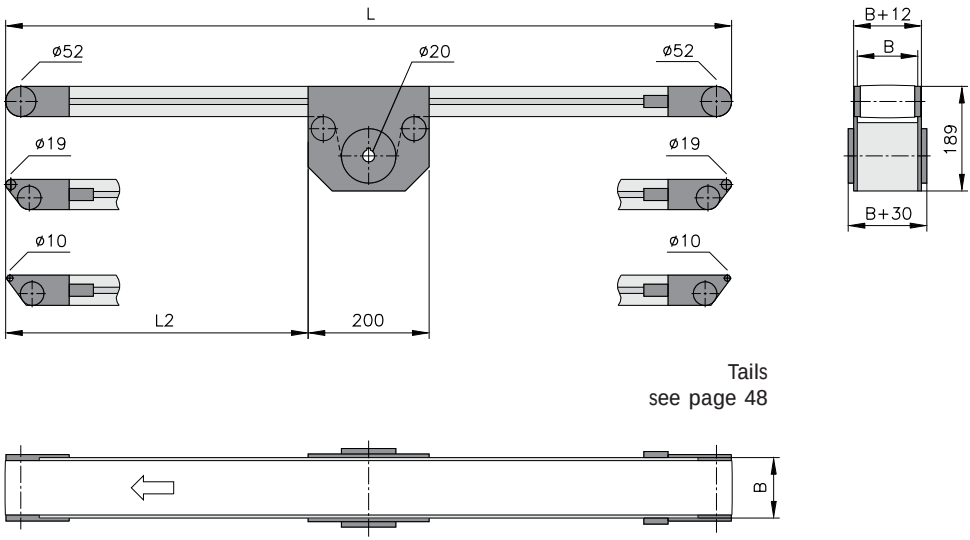
Features:
Drive Version AU features motor placement outside of the conveyor frame. This is often used in situations where the underside of the conveyor frame must be as unobstructed as possible, or where the motor must remain clean. The conveyor can be placed very close to equipment and transport of tall objects is no problem. Additional features include a ø 52 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 415 - 10000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right below, head left below, head right above, head left above	head left shown
Drive and Speed	to 80 m/min (260 ft/min)	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	75 kg (165 lbs)	higher on request

GUF-P 2000 BA

Belt Conveyors with Center Drive without Motor, bidirectional

B20.00.001



Tails
see page 48

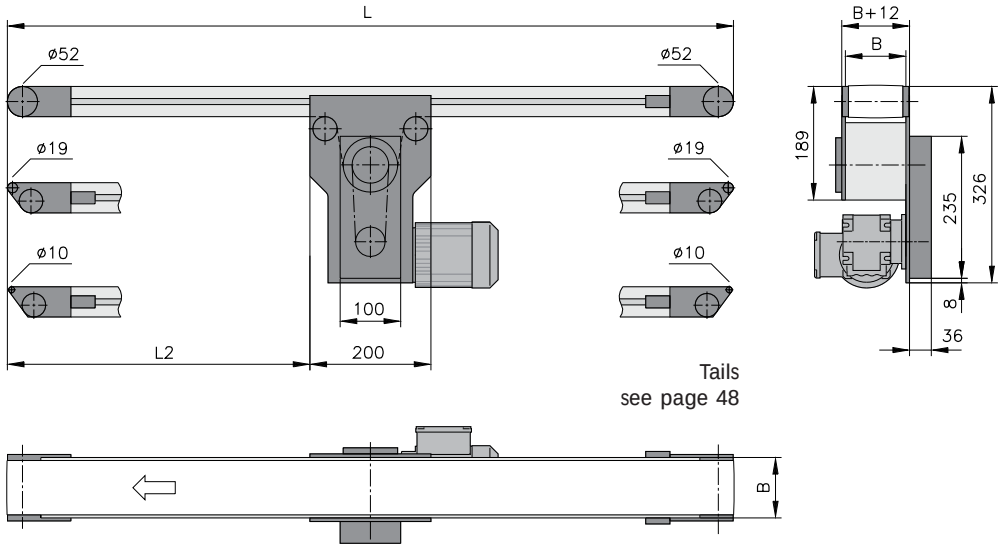
Features:
Drive Version BA is used primarily when slave driving multiple conveyor lanes in parallel using one drive motor. The compact design, and the ability to move the drive location anywhere along the conveyor frame, simplifies the integration of this conveyor into new or existing equipment. Additional features include a ø 62 mm or ø 88 mm crowned drive roll (depending on the application), separate belt tensioning and tracking, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Use of cleated belts is not possible with this drive version. The drive roll features a ø 20 mm hollow shaft with 6 mm keyway (DIN 6885).

	Dimensions – Technical Information	Notes
Conveyor length L	between 610 - 10000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive and Speed	to 80 m/min (260 ft/min)	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	75 kg (165 lbs)	higher on request

GUF-P 2000 BC

Belt Conveyors with Center Drive, bidirectional

B20.00.004



Tails
see page 48

Features:
mk offers many motor options for Drive Version BC, which are sized and selected for each application's individual speed and load requirements. When combined with Drive Version BA, this version serves as the driving conveyor in parallel arrangements. The compact design, and the ability to move the drive location anywhere along the conveyor frame, simplifies the integration of this conveyor into new or existing equipment. Additional features include a ø 62 mm or ø 88 mm crowned drive roll (depending on the application), separate belt tensioning and tracking, sealed ball bearings and a stainless steel slider bed fastened to an aluminum T-slot designed frame. Use of cleated belts is not possible with this drive version. The drive roll features a ø 20 mm hollow shaft with 6 mm keyway (DIN 6885).

	Dimensions – Technical Information	Notes
Conveyor length L	between 610 - 10000 mm	any increment possible
Conveyor width B	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800 mm	others on request
Belt Width	B-10 mm	see page 86
Drive Location	right, left	
Drive and Speed	to 80 m/min (260 ft/min)	see page 47
Stands and Side Rails		see page 262
Load Capacity max.	75 kg (165 lbs)	higher on request

GUF-P 2000

Motor Information

Motor selection

As a standard, mk offers a variety of motors. On our homepage (www.mk-group.com) we provide a calculation program for motor sizing for conveyors available in Germany. Although the selection varies by country with respect to local voltage standards and safety regulations, international availability is a key requirement. Typically, we supply inverter-duty right-angle gearmotors for heavy-duty requirements and parallel shaft gearmotors for lower speed and load applications.
All motors are readily available from mk.

Motor voltage

As a standard, mk provides motors which comply with the normal, expected electrical requirements of the country where they are manufactured. International motors are also available for conveyors designed for export.

Motor power

Motors are sized to each individual conveyor style, size and performance requirements. The typical range is between 0.054 KW and 0.37 KW (1/14 hp and 1/2 hp).

Speeds

The maximum belt speed for GUF-P 2000 conveyors is approximately 80 m/min (260 ft/min). This is dependant on the total load, the type of transport with respect to indexing or accumulation, and the conveyor length. For Drive Versions with parallel shaft gearmotors the maximum speed is 15 m/min (50 ft/min).

Speed Control

Frequency inverters with a variable speed range of 1:7 are available for AC motors. DC motors offer speed controls with a 1:10 range.

Rating

All standard motors are built to IP 54 (IP = International Protection) standards, whereby higher standards are available on request.

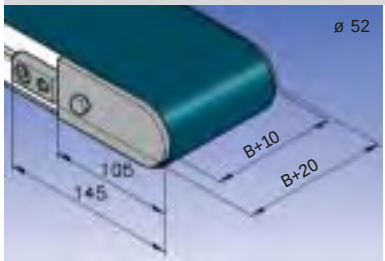
Additional notes

The motors are primarily designed for continuous duty. Operating motors at very low frequency (below 70% of normal) may require additional cooling. Motors with encoders, clutches, brakes, thermal overload protection or indexing capabilities are also available.

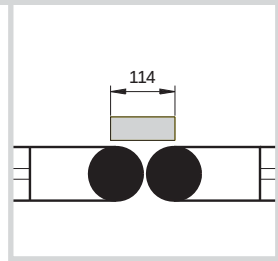
GUF-P 2000

Tails

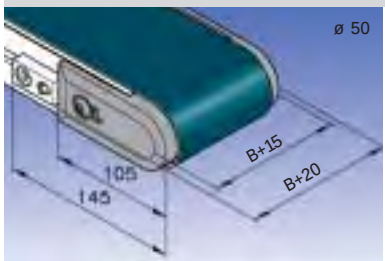
Tail 01 **Ident-Nr. B80.00.001**



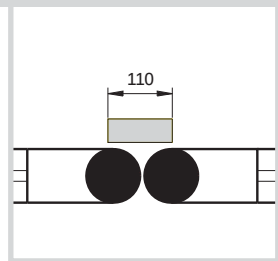
- ø 52 mm crowned roll
- Sealed bearings
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 114 mm
- Plastic or aluminum roll holders



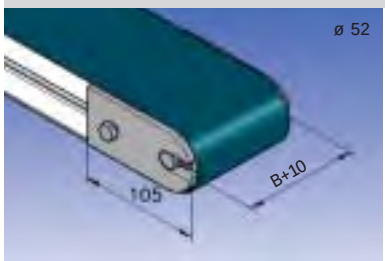
Tail 02 **Ident-Nr. B80.00.013**



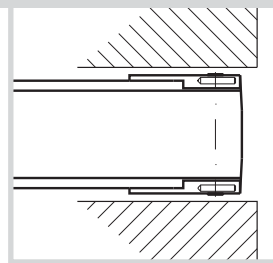
- Cylindrical drum ø 50 mm
- Sealed bearings
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 110 mm
- Plastic roll holders
- Load Capacity max. 25 kg (55 lbs)
- Conveyor width 100 bis 500 mm
- not suitable for sideloading



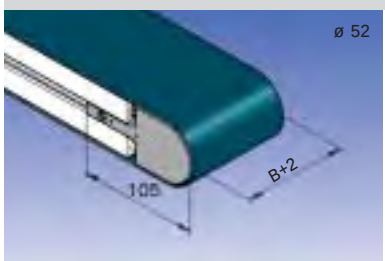
Tail 09 **Ident-Nr. B80.00.005**



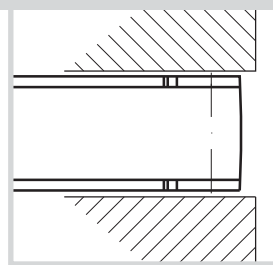
- ø 52 mm crowned roll
- Sealed bearings
- Belt tension using roll holders
- Belt tension and tracking using set screws from end
- Compact tail



Tail 11 **Ident-Nr. B80.00.007**



- ø 52 mm crowned roll
- Sealed bearings
- Belt tension and tracking using roll holders
- Roll holders flush
- Compact tail

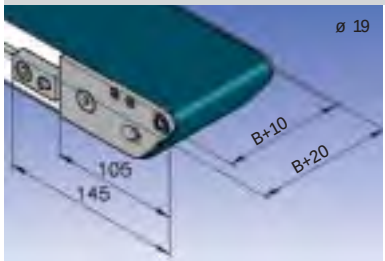


GUF-P 2000

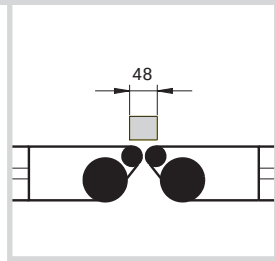
Tails

Tail 13

Ident-Nr. B80.00.008

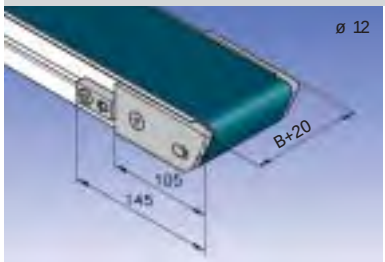


- Rolling nosebar
- Roll ø 19 mm, sealed bearings
- Belt tension and tracking using roll holders
- Minimum part size for transfer 48 mm
- Note mimimum pulley diameter when selecting belt

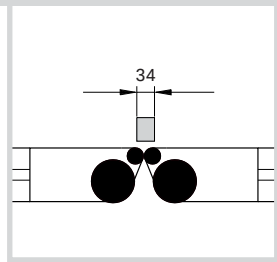


Tail 10

Ident-Nr. B80.00.004

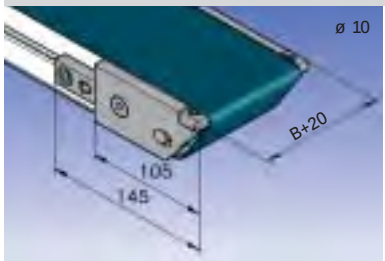


- Rolling nosebar, Bmax = 200 mm
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 34 mm
- Note mimimum pulley diameter when selecting belt
- Belt speed may not exceed 10 m/min (33 ft/min)

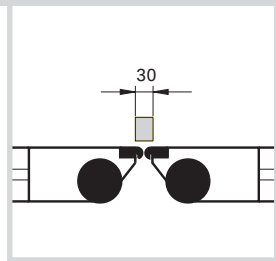


Tail 17

Ident-Nr. B80.00.002

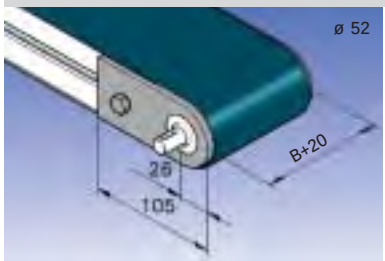


- Fixed nosebar, Bmax = 300 mm
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 30 mm
- Note mimimum pulley diameter when selecting belt
- Belt speed may not exceed 10 m/min (33 ft/min)
- Requires rubberized roller

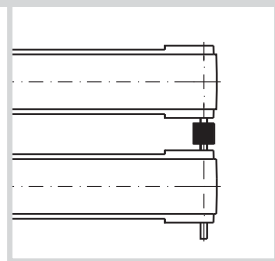


Tail 19

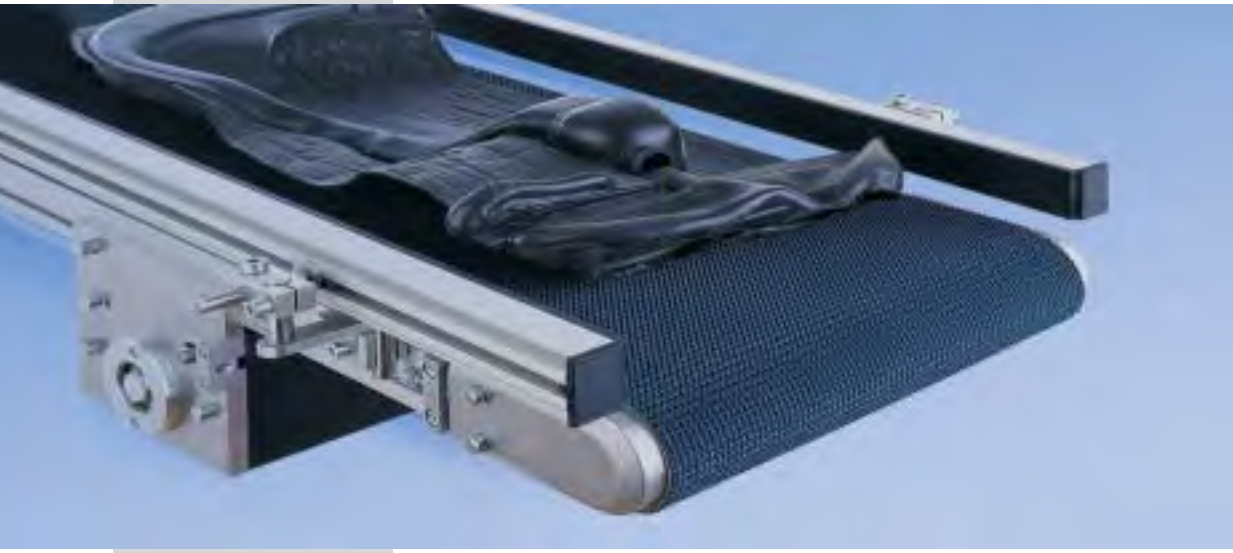
Ident-Nr. B80.00.006



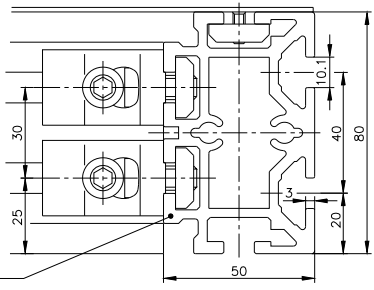
- ø 52 mm crowned roll
- Sealed bearings
- ø 16 mm output shaft 22 mm long for chain drives or 29 mm long for timing belt drives. Both include a 5 x 5 x 16 mm shaft key (DIN 6885)
- Coupling of two lanes using one drive (specify right, left or both sides)



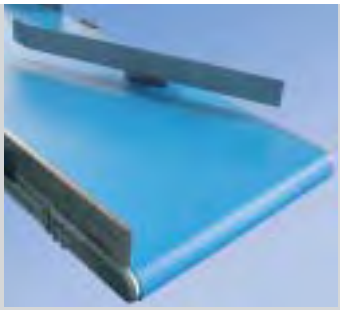
Belt Conveyors
GUF-P 2041

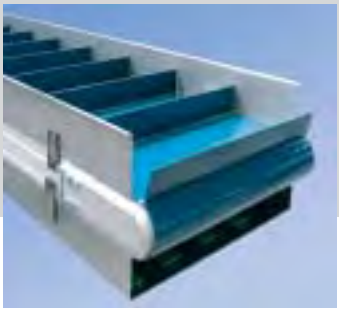


Conveyor frame
cross-section



Profile mk 2251

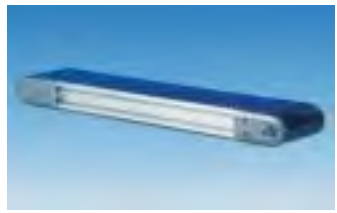




The use of our rigid structural Profile mk 2251 (50 x 80 mm) to manufacture the conveyor frame allows System GUF-P 2041 conveyors to accomodate loads of up to 150 kg (330 lbs). The components used in the drive and tail assemblies are also specifically designed to handle these loads. The ø 85 mm drive roll standard for this system further ensures that all available motor power is transfered to the belt. A further advantage of this system is an almost unlimited selection of belt types, including cleats and sidewalls. Each side of the conveyor frame features two system T-slots (10 mm opening) for integration into existing equipment, or for the attachment of stands, side rails and other accessories. Additional noteworthy details include the use of galvanized slider beds for reduced belt friction, sealed ball bearings and crowned rollers for simple belt tracking and alignment.

Belt Conveyors
GUF-P 2041

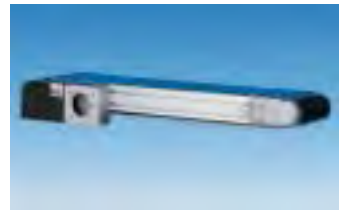
Drive Version AA



Drive Version AC

Drive Version AF

Drive Version AS



Drive Version BC

Drive Version CA

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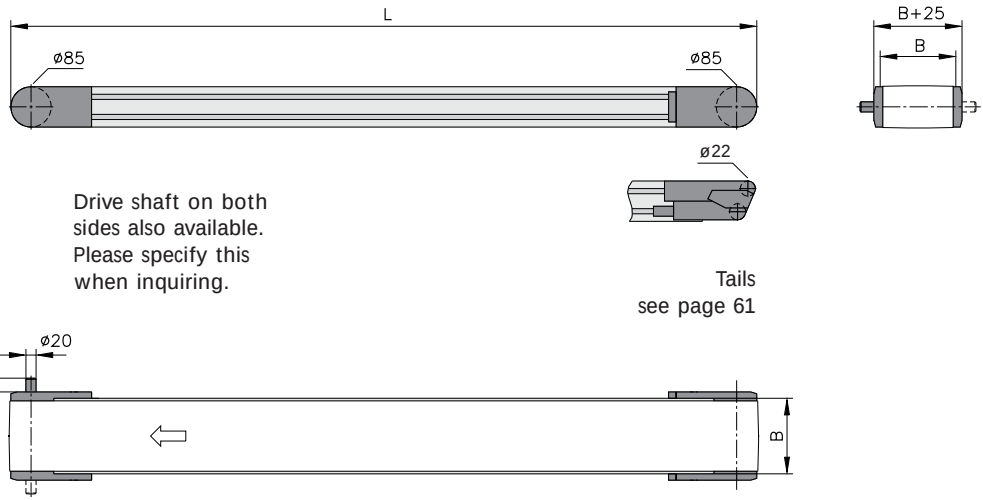
GUF-P 2041 AA

Belt Conveyors with Head Drive, without Motor

B20.40.009



Drive shaft on both sides also available. Please specify this when inquiring.

Tails see page 61

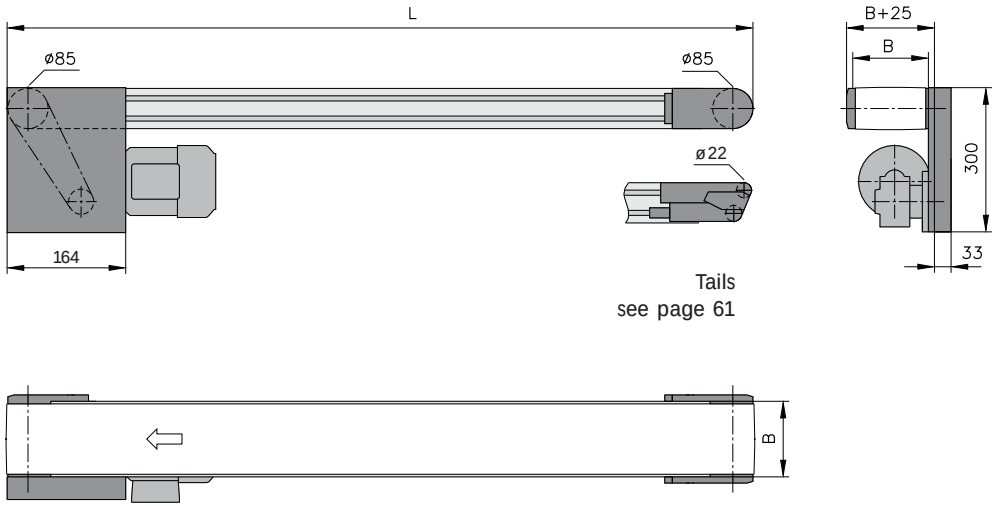
Features:
Drive Version AA is often used where multiple lanes are to be slave driven, either parallel or in-line, with a single drive motor. The robust frame is ideal for stand-alone applications or for integrating this conveyor into new or existing equipment. Additional features include a ø 85 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a galvanized steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version. The ø 20 mm x 27.5 mm long output shaft includes a 6 x 6 x 22 mm shaft key (DIN 6885).

	Dimensions – Technical Information	Notes
Conveyor length L	between 500 - 10000 mm	any increment possible
Conveyor width B	200 to 1200 mm (in 100 mm increments)	others on request
Belt Width	B-10 mm	see page 86
Drive and Speed	to 60 m/min (200 ft/min)	see page 60
Stands and Side Rails		see page 262
Load Capacity max.	150 kg (330 lbs)	higher on request

GUF-P 2041 AC

Belt Conveyors with Head Drive

B20.40.001



Tails
see page 61

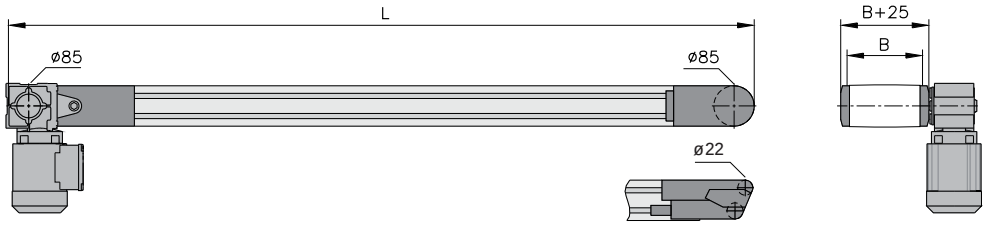
Features:
mk offers a variety of motor options for Drive Version AC, which are sized and selected for each application's specific speed and load requirements. The robust frame is ideal for stand-alone applications or for integrating this conveyor into new or existing equipment. Additional features include a ø 85 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a galvanized steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 500 - 10000 mm	any increment possible
Conveyor width B	200 to 1200 mm (in 100 mm increments)	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	to 60 m/min (200 ft/min)	see page 60
Stands and Side Rails		see page 262
Load Capacity max.	150 kg (330 lbs)	higher on request

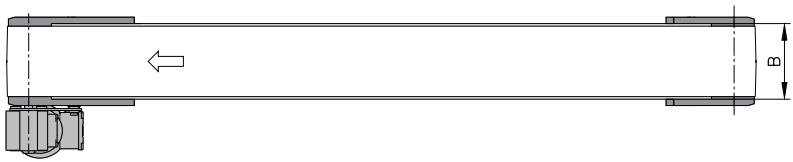
GUF-P 2041 AF

Belt Conveyors with Head Drive direct, Torque Arm

B20.40.008



Tails
see page 61



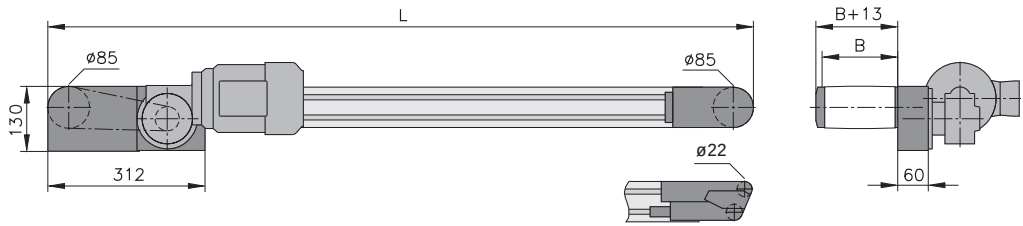
Features:
By placing the motor directly onto the drive shaft, this drive version minimizes not only the space required at the drive yet also the number of moving parts and maintenance requirements. The torque arm enables even large output torques to be transferred to the belt.

	Dimensions – Technical Information	Notes
Conveyor length L	between 650 - 10000 mm	any increment possible
Conveyor width B	200 to 1200 mm (in 100 mm increments)	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	3.2 to 55.3 m/min	others on request
Stands and Side Rails		see page 262
Load Capacity max.	100 kg (220 lbs)	higher on request

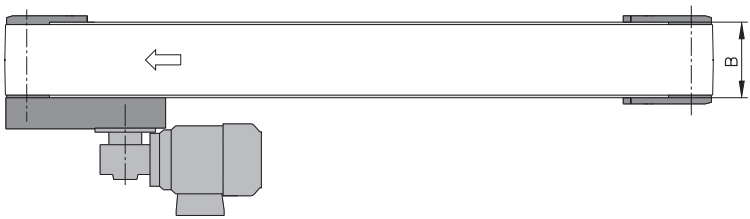
GUF-P 2041 AS

Belt Conveyors with Outside Head Drive

B20.40.003



Tails
see page 61



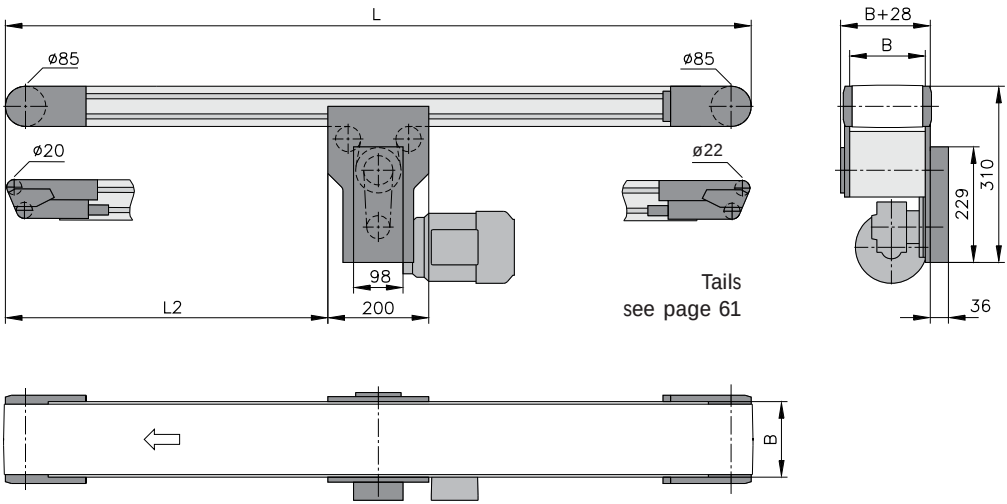
Features:
Drive Version AS features motor placement on the outside of the conveyor frame. This is often used in situations where the conveyor frame must be unobstructed, or where the motor must remain clean. The conveyor can be placed very close to equipment. Additional features include a ø 85 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a galvanized steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 650 - 10000 mm	any increment possible
Conveyor width B	200 to 1200 mm (in 100 mm increments)	others on request
Belt Width	B-10 mm	see page 86
Drive Location	head right below, head left below, head right above, head left above	head left shown
Drive and Speed	to 60 m/min (200 ft/min)	see page 60
Stands and Side Rails		see page 262
Load Capacity max.	150 kg (330 lbs)	higher on request

GUF-P 2041 BC

Belt Conveyors with Center Drive, bidirectional

B20.40.004



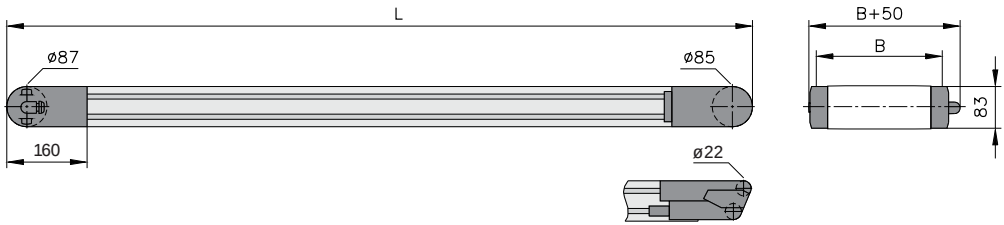
Features:
mk offers a variety of motor options for Drive Version BC, which are sized and selected for each application's individual speed and load requirements. The compact design, and the ability to move the drive location anywhere along the conveyor frame, simplifies the integration of this conveyor into new or existing equipment. Additional features include a ø 88 mm crowned drive roll, separate belt tensioning and tracking, sealed ball bearings and a galvanized steel slider bed fastened to an aluminum T-slot designed frame. Use of cleated belts is not possible with this drive version. The drive roll also features a ø 20 mm hollow shaft with a 6 mm keyway (DIN 6885).

	Dimensions – Technical Information	Notes
Conveyor length L	between 650 - 10000 mm	any increment possible
Conveyor width B	200 to 1200 mm (in 100 mm increments)	others on request
Belt Width	B-10 mm	see page 86
Drive Location	right, left	
Drive and Speed	to 60 m/min (200 ft/min)	see page 60
Stands and Side Rails		see page 262
Load Capacity max.	150 kg (330 lbs)	higher on request

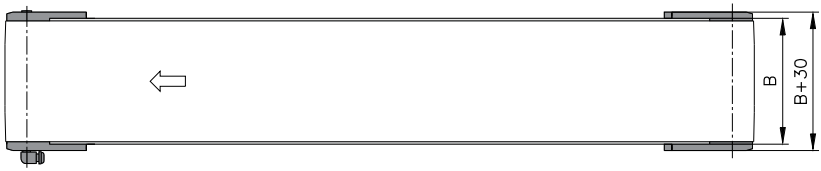
GUF-P 2041 CA

Belt Conveyors with Driven Roller

B20.40.005



Tails
see page 61



Features:
Drive Version CA with Driven Roller is the most compact drive version available for System GUF-P 2041. By integrating the motor within the drive roll itself, there is no mechanical interference. The integration of this conveyor into equipment is therefore relatively simple.

	Dimensions – Technical Information	Notes
Conveyor length L	between 500 - 3000 mm	any increment possible
Conveyor width B	200, 250, 300, 350, 400, 450 and 500 mm	others on request
Belt Width	B-10 mm	see page 86
Drive and Speed	2.9; 4.1; 5.1; 6.1; 7.4; 8.7; 10.6; 10.7; 13; 13.1; 15.6; 18.7; 22.3; 23; 27.4; 33.6; 48.2 and 59.2	see page 60
Stands and Side Rails		see page 262
Load Capacity max.	on request	

GUF-P 2041

Motor Information

Motor selection

As a standard, mk offers a variety of motors. On our homepage (www.mk-group.com) we provide a calculation program for motor sizing for conveyors available in Germany.

Although the selection varies by country with respect to local voltage standards and safety regulations, international availability is a key requirement. Typically, we supply inverter-duty right-angle gearmotors for heavy-duty requirements. All motors are readily available from mk.

Motor voltage

As a standard, mk provides motors which comply with the normal, expected electrical requirements of the country where they are manufactured. International motors are also available for conveyors designed for export.

Motor power

Motors are sized to each individual conveyor style, size and performance requirements. The typical range is between 0.09 KW and 0.55 KW (1/8 hp and 3/4 hp).

Speeds

The maximum belt speed for GUF-P 2041 conveyors is approximately 60 m/min (200 ft/min). This is dependant on the total load, the type of transport with respect to indexing or accumulation, and the conveyor length. For Drive Version CA the maximum speed depends on the conveyor load.

Speed Control

Frequency inverters with a variable speed range of 1:7 are available for AC motors. DC motors offer speed controls with a 1:10 range.

Rating

All standard motors are built to IP 54 (IP = International Protection) standards, whereby higher standards are available on request.

Additional notes

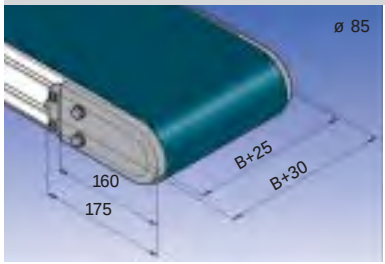
The motors are primarily designed for continuous duty. Operating motors at very low frequency (below 70% of normal) may require additional cooling. Motors with encoders, clutches, brakes, thermal overload protection or indexing capabilities are also available. However, this does not apply for drive execution CA.

GUF-P 2041

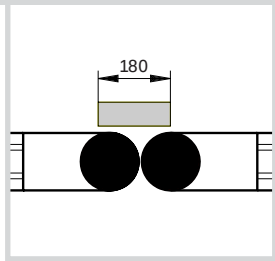
Tails

Tail 01

Ident-Nr. B80.07.001

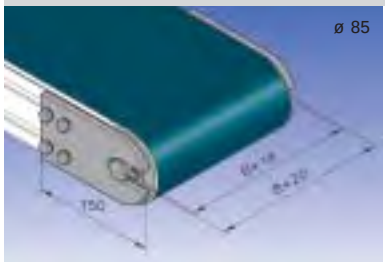


- ø 85 mm crowned roll
- Sealed bearings
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 180 mm
- Cast aluminum roll holders

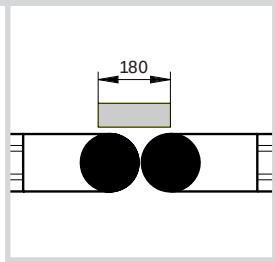


Tail 02

Ident-Nr. B80.07.009

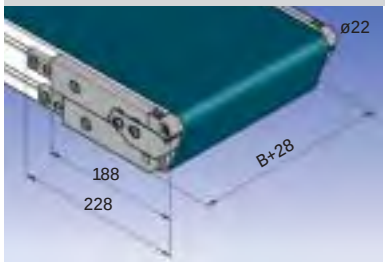


- Cylindrical drum ø 85 mm
- Sealed bearings
- Belt tension and tracking using tension shafts
- Minimum part size for transfer 180 mm
- Not suitable for sideloading

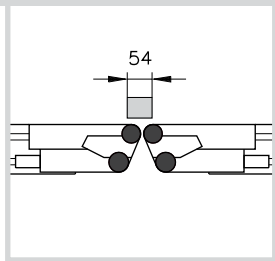


Tail 13

Ident-Nr. B80.07.006

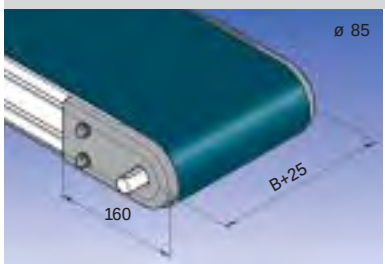


- ø 22 mm rolling nosebar
- Sealed bearings
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 54 mm
- Note mimimum pulley diameter when selecting belt

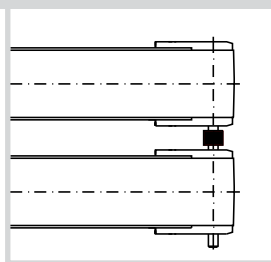


Tail 19

Ident-Nr. B80.07.002

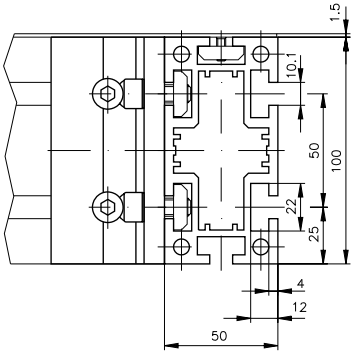


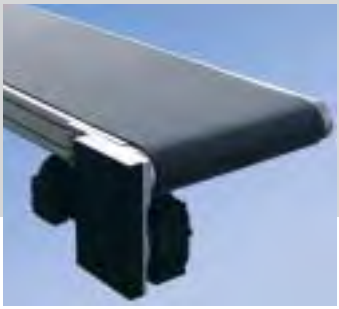
- ø 85 mm crowned roll
- Sealed bearings
- ø 20 x 27.5 mm long shaft, 6x6x22 mm shaft key (DIN 6885)
- Coupling of two lanes using one drive
- Additional output shaft (specify right, left or both sides)

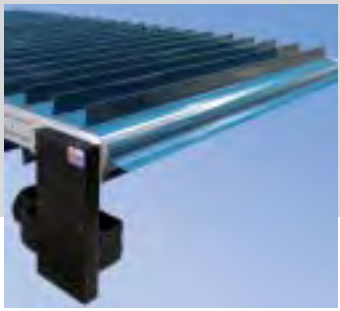


Belt Conveyors
GUF-P 2004

Conveyor frame
cross-section



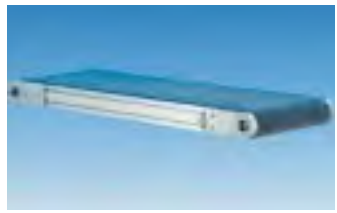




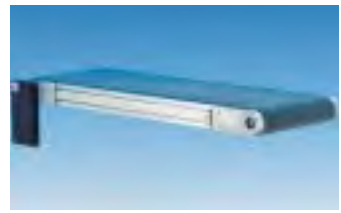
Besides the standard features of all mk Belt Conveyor Systems including crowned rolls for simple belt tracking and low friction slider beds, System GUF-P 2004 is noted for its extremely heavy frame manufactured using our structural Profile mk 2004. With total load capacities to 200 kg (440 lbs) and frame dimensions of up to 2.000 mm wide by 20 meters long, this conveyor is ideally suited for transporting large and bulky goods. The ø 105 mm drive roll, which is available in either steel or rubberized depending on load, completes this conveyor, which is the largest belt conveyor we offer. In addition to the high load carrying capacity, this conveyor system can be further enhanced by the large selection of standard accessories including side rails and heavy-duty stands.

Belt Conveyors
GUF-P 2004

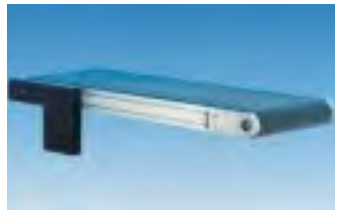
Drive Version AA



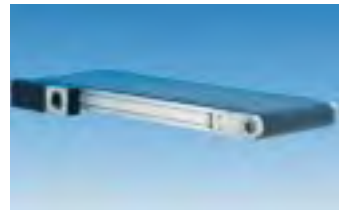
Drive Version AC



Drive Version AM



Drive Version AS



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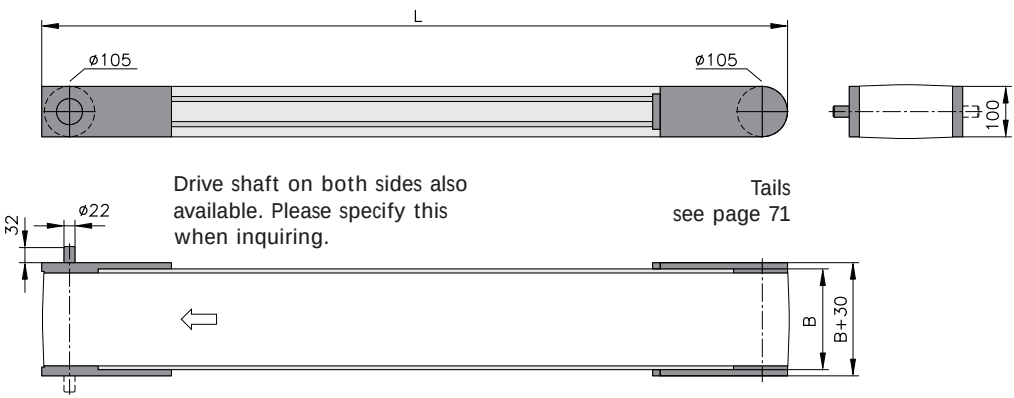
GUF-P 2004 Motor Information 70

GUF-P 2004 Tails 71

GUF-P 2004 AA

Belt Conveyors with Head Drive, without Motor

B20.14.009



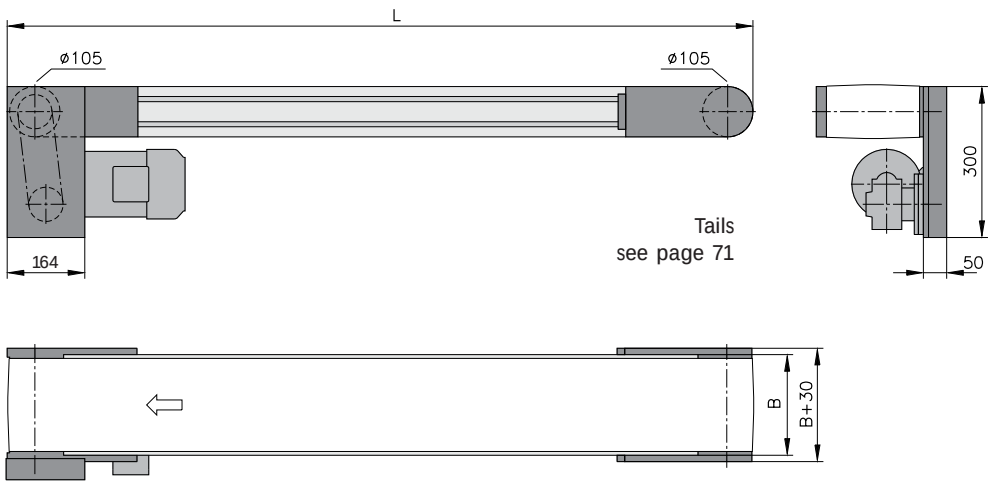
Features:
Drive Version AA is often used where multiple lanes are to be slave driven, either parallel or in-line, with a single drive motor. The rigid frame is ideal for integrating this conveyor into new or existing equipment. Additional features include a ø 105 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a galvanized steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version. The ø 22 mm x 32 mm long output shaft includes a 6 x 6 x 32 mm shaft key (DIN 6885).

	Dimensions – Technical Information	Notes
Conveyor length L	between 660 - 20000 mm	any increment possible
Conveyor width B	200 - 2000 mm (in 100 mm increments)	others on request
Belt Width	B-50 mm	see page 86
Drive Location	Output shaft right, left or both sides	
Drive and Speed	to 60 m/min (200 ft/min)	see page 70
Stands and Side Rails		see page 262
Load Capacity max.	200 kg (440 lbs)	higher on request

GUF-P 2004 AC

Belt Conveyors with Head Drive

B20.14.001



Tails
see page 71

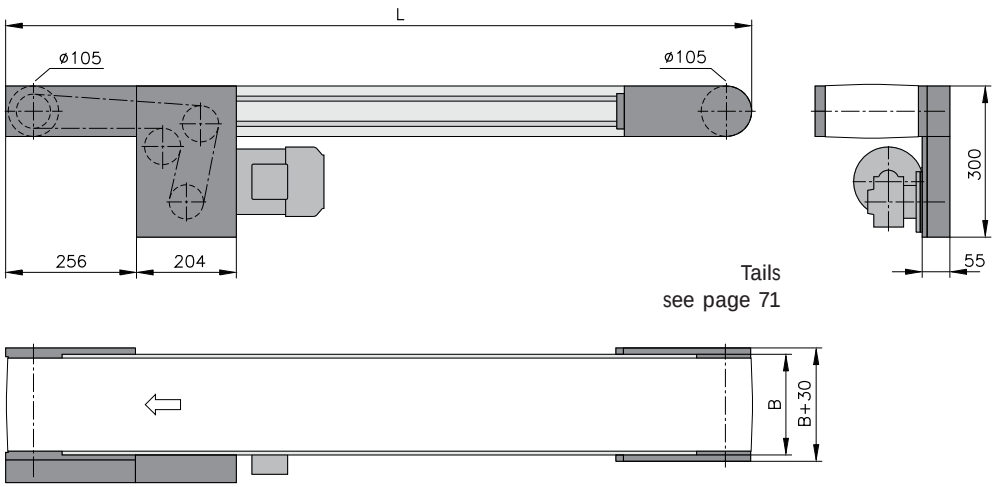
Features:
mk offers a variety of motor options for Drive Version AC, which are sized and selected for each application's specific speed and load requirements. The compact frame is ideal for integrating this conveyor into new or existing equipment. Additional features include a ø 105 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a galvanized steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 700 - 20000 mm	any increment possible
Conveyor width B	200 - 2000 mm (in 100 mm increments)	others on request
Belt Width	B-50 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	to 60 m/min (200 ft/min)	see page 70
Stands and Side Rails		see page 262
Load Capacity max.	200 kg (440 lbs)	higher on request

GUF-P 2004 AM

Belt Conveyors with Offset Head Drive

B20.14.003



Tails
see page 71

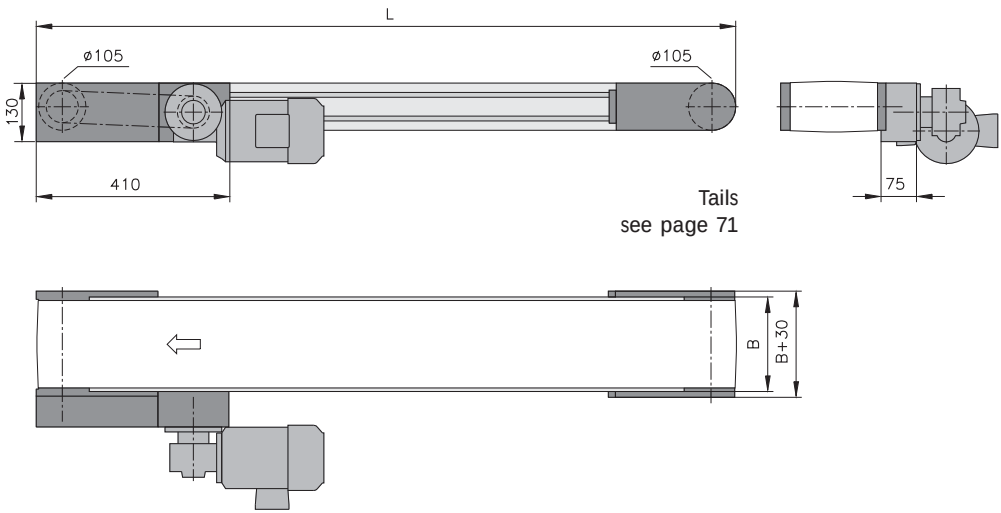
Features:
Drive Version AM combines the cost advantages of a head drive with the unobstructed discharge end of a center drive. This conveyor is ideal for feeding parts into or out of equipment. Additional features include a ø 105 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a galvanized steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 850 - 20000 mm	any increment possible
Conveyor width B	200 - 2000 mm (in 100 mm increments)	others on request
Belt Width	B-50 mm	see page 86
Drive Location	head right, head left	head left shown
Drive and Speed	to 60 m/min (200 ft/min)	see page 70
Stands and Side Rails		see page 262
Load Capacity max.	200 kg (440 lbs)	higher on request

GUF-P 2004 AS

Belt Conveyors with Outside Head Drive

B20.14.002



Tails
see page 71

Features:
Drive Version AS features motor placement on the outside of the conveyor frame. This is often used in situations where the conveyor frame must be unobstructed, or where the motor must remain clean. The conveyor can be placed very close to equipment. Additional features include a ø 105 mm crowned drive roll, easy belt tracking at the tail end, sealed ball bearings and a galvanized steel slider bed fastened to an aluminum T-slot designed frame. Cleated belts may be used with this drive version.

	Dimensions – Technical Information	Notes
Conveyor length L	between 800 - 20000 mm	any increment possible
Conveyor width B	200 - 2000 mm (in 100 mm increments)	others on request
Belt Width	B-50 mm	see page 86
Drive Location	head right below, head left below, head right above, head left above	head left shown
Drive and Speed	to 60 m/min (200 ft/min)	see page 70
Stands and Side Rails		see page 262
Load Capacity max.	200 kg (440 lbs)	higher on request

GUF-P 2004

Motor Information

Motor selection

As a standard, mk offers a variety of motors. On our homepage (www.mk-group.com) we provide a calculation program for motor sizing for conveyors available in Germany. Although the selection varies by country with respect to local voltage standards and safety regulations, international availability is a key requirement. Typically, we supply inverter-duty right-angle gearmotors for heavy-duty requirements and parallel shaft gearmotors for lower speed and load applications.
All motors are readily available from mk.

Motor voltage

As a standard, mk provides motors which comply with the normal, expected electrical requirements of the country where they are manufactured. International motors are also available for conveyors designed for export.

Motor power

Motors are sized to each individual conveyor style, size and performance requirements. The typical range is between 0.18 KW and 0.75 KW (1/4 hp and 1 hp).

Speeds

The maximum belt speed for GUF-P 2004 conveyors is approximately 60 m/min (200 ft/min). This is dependant on the total load, the type of transport with respect to indexing or accumulation, and the conveyor length.

Speed Control

Frequency inverters with a variable speed range of 1:7 are available for AC motors. DC motors offer speed controls with a 1:10 range.

Rating

All standard motors are built to IP 54 (IP = International Protection) standards, whereby higher standards are available on request.

Additional notes

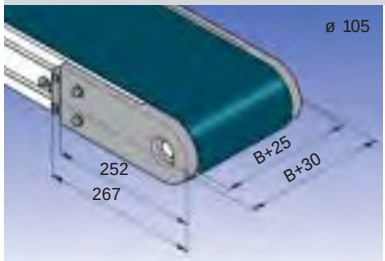
The motors are primarily designed for continuous duty. Operating motors at very low frequency (below 70% of normal) may require additional cooling. Motors with encoders, clutches, brakes, thermal overload protection or indexing capabilities are also available.

GUF-P 2004

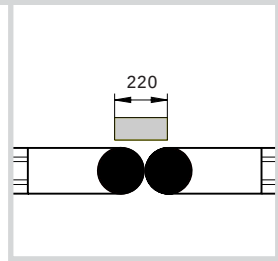
Tails

Tail 01

Ident-Nr. B80.02.004

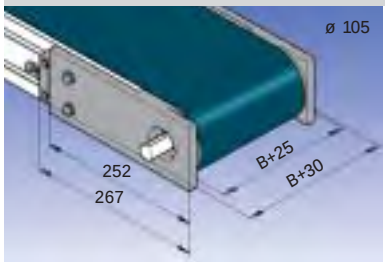


- ø 105 mm crowned roll
- Sealed bearings
- Belt tension and tracking using alignment blocks
- Minimum part size for transfer 220 mm

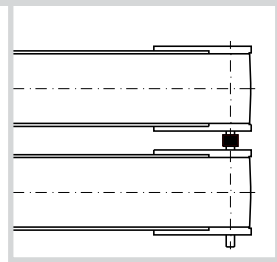


Tail 09

Ident-Nr. B80.02.005

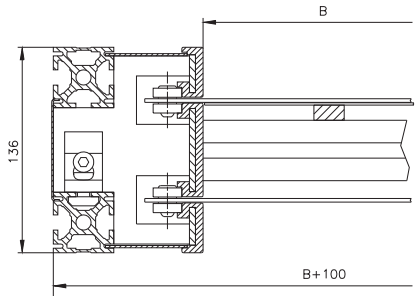


- ø 105 mm crowned roll
- Sealed bearings
- ø 22 x 32 mm long output shaft, 6x6x32 mm shaft key (DIN 6885)
- Coupling of two lanes using one drive
- Output shaft left, right or both sides possible



Belt Conveyors
KGF-P 2040

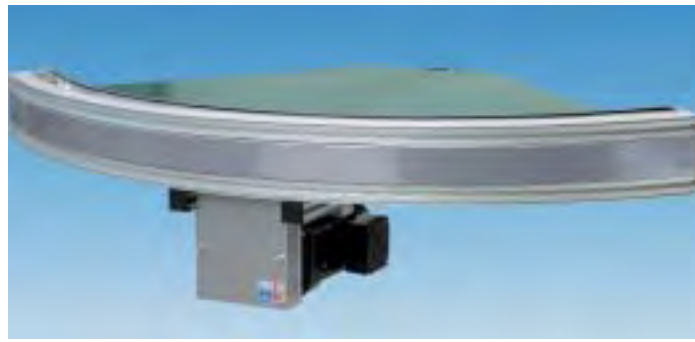
Conveyor frame
cross-section



The conveyor system KGF-P 2040 is based on our Profile Series 40, and is compatible with all other mk conveyor systems. The exterior profile frame features 10 mm T-slots which allow for the direct mounting of additional accessories such as side rails, sensors, etc. The structural profiles used ensure rigid construction with excellent load bearing capacities, whereby the indicated values for maximum loads and speeds are directly dependent, and thus vary. The conveyor features a ø 20 mm rolling nosebar which allows for the transfer of small parts. Automatic belt tensioning is built into the tails which compensates for normal belt stretch, while at the same time ensuring a fixed, unchanging installed dimension. The compact center drive features no external protrusions when using our standard motor.

Belt Conveyors
KGF-P 2040

Drive Version BI



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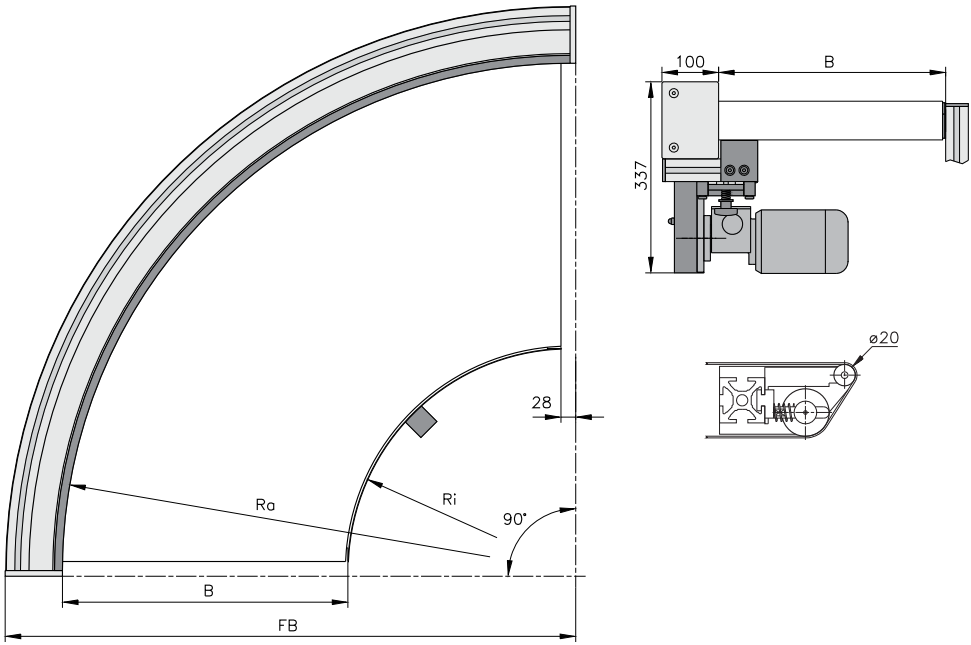
KGF-P 2040 BI

Curved belt conveyor with Center Drive, reversible

B20.40.020

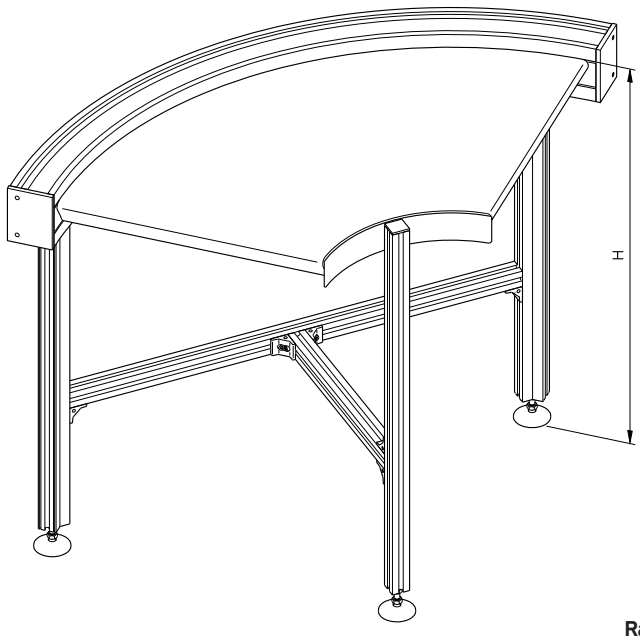


Features:
For this conveyor mk offers Drive Version BI, featuring usable belt widths of 300, 400, 500 and 600 mm for a 90° curve. The compact construction simplifies the integration of the conveyor within existing lines. The ø 55 mm drive roll ensures good grip and efficient motor power transfer.

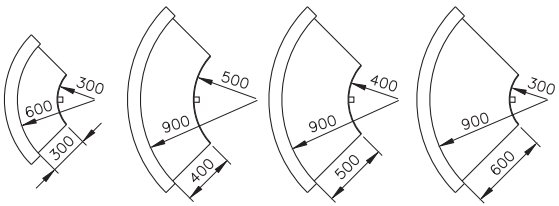
	Dimensions – Technical Information	Notes
Conveyor Angle	90°	others on request
Usable Widths B	300 at Ra=600 mm, Ri=300 mm, FB=706 400 at Ra=900 mm, Ri=500 mm, FB=1006 500 at Ra=900 mm, Ri=400 mm, FB=1006 600 at Ra=900 mm, Ri=300 mm, FB=1006	Ident.-Nr.: B20.40.023 Ident.-Nr.: B20.40.022 Ident.-Nr.: B20.40.021 Ident.-Nr.: B20.40.020
Drive Location	below, center	
Drive and Speed	5 to 30 m/min	others on request
Stands	standard, or with belt change support	
Load Capacity max.	to 30 kg (65 lbs), depending on conveyor angle, speed and product	
Belts		see page 86

KGF-P 2040

Stands and Order Example



Radius Versions



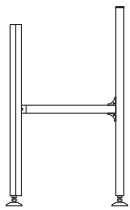
Order Example

In order to properly quote and manufacture your conveyor we require the following information:

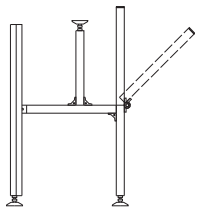
KGF-P 2040
Version Ra 900 / Ri 500
Speed 15 m/min
Usable Width B = 400 mm
Belt type
Stands with (or without) belt change support
Height H = 800 mm

Stands

standard

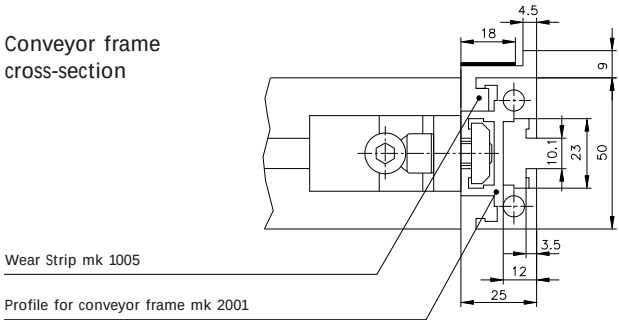


with belt change support



Belt Conveyors
DGF-P 2001

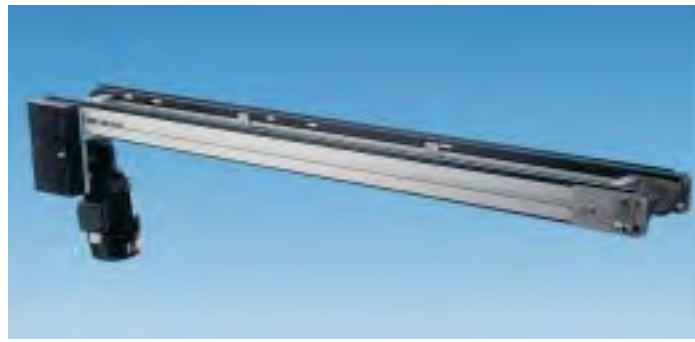
Conveyor frame
cross-section



Conveyor System DGF-P 2001 is primarily designed for the transport of pallets. It is ideally suited to assembly areas, such as can be found in the electronics industry for example. The small diameter tail drum allows for the transfer of relatively short pallets. Belt tensioning is accomplished using the lower tail return roller. As the roll holders are not moved, a fixed overall length is achieved. The belts run entirely on standard mk UHMW wear strips, whereby a maximum total load of 15 kg (33 lbs) is possible. Pallets for the DGF-P 2001 conveyors are supplied by mk in aluminum, as a standard. Machining is therefore according to the customer's wishes.

Belt Conveyors
DGF-P 2001

Drive Version AC



Contents DGF-P 2001

DGF-P 2001 AC - Dual Belt Conveyor with Head Drive - 82

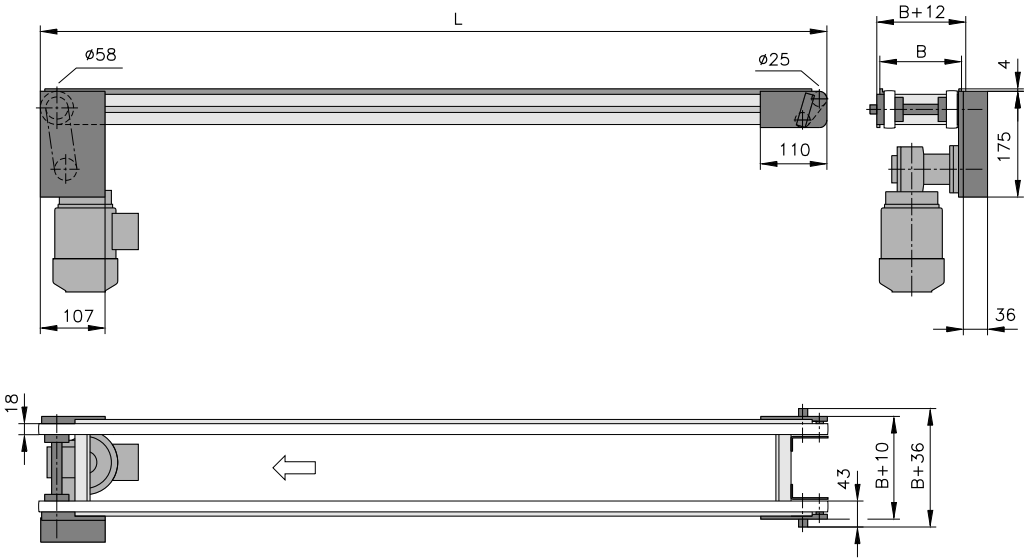
DGF-P 2001 Motor Information 83

DGF-P 2001 Pallets 84

DGF-P 2001 AC

Dual Belt Conveyor with Head Drive

B20.11.701



Features:
The belts of the DGF-P 2001 dual lane conveyor ride on UHMW wear strips 4.5 mm thick x 5 mm tall integrated side rails. The recommended pallet width is the conveyor width B-11 mm (2 mm gap). The compact conveyor frame is ideal for integrating this conveyor into new or existing equipment. The ø 58 mm drive rolls ensure sufficient motor power transmission.

	Dimensions – Technical Information	Notes
Conveyor length L	between 300 - 2000 mm	any increment possible
Conveyor width B	100, 125, 150, 175, 200 and 250 mm	
Belt Width	18 mm	see page 86
Drive Location	head right, head left	head left shown
Speed	to 15 m/min (50 ft/min) constant or variable	
Stands and Side Rails		see page 262
Load Capacity max.	15 kg (33 lbs)	higher on request

DGF-P 2001

Motor Information

Motor selection

As a standard, mk offers a variety of motors.
Although the selection varies by country with respect to local voltage standards and safety regulations, international availability is a key requirement. Typically, we supply inverter-duty right-angle gearmotors for heavy-duty requirements and parallel shaft gearmotors for lower speed and load applications.
All motors are readily available from mk.

Motor voltage

As a standard, mk provides motors which comply with the normal, expected electrical requirements of the country where they are manufactured. International motors are also available for conveyors designed for export.

Motor power

Motors are sized to each individual conveyor style, size and performance requirements. The typical range is between 0.09 KW and 0.25 KW (1/8 hp and 1/3 hp).

Speeds

The maximum belt speed for DGF-P 2001 conveyors is approximately 15m/min (50 ft/min). This is dependant on the total load, the type of transport with respect to indexing or accumulation, and the conveyor length.

Speed Control

Frequency inverters with a variable speed range of 1:7 are available for AC motors. DC motors offer speed controls with a 1:10 range.

Rating

All standard motors are built to IP 54 (IP = International Protection) standards, whereby higher standards are available on request.

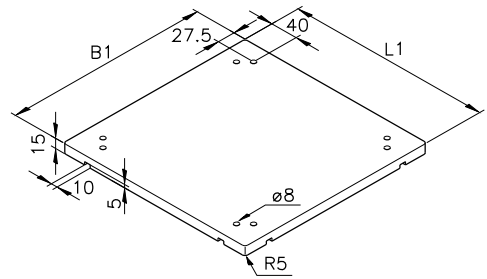
Additional notes

The motors are primarily designed for continuous duty. Operating motors at very low frequency (below 70% of normal) may require additional cooling. Motors with encoders, clutches, brakes, thermal overload protection or indexing capabilities are also available.

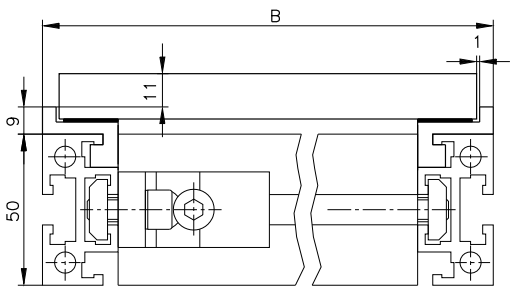
DGF-P 2001

Pallets

As as standard, the pallets for Conveyor System DGF-P 2001 are manufactured using aluminum (2017A, or 3.1325). Dimensionally the width is fixed in relation to the conveyor (B-11 mm). The minimum length is 90 mm. Depending on the product to be conveyed, anodized aluminum or other pallet materials are also available. Below is a representation of our standard, with customer-specific tooling shown at left.



Conveyor and pallet cross-section



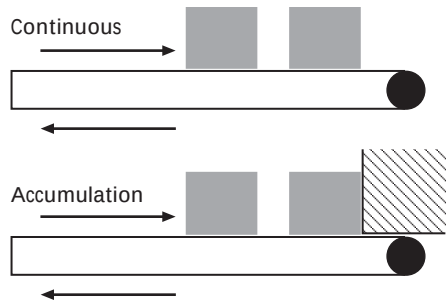
Rework

Upon request we can rework the pallet for your particular application. We can also provide pallets per your drawings.

Belt Conveyors
Belt Types

The belt types shown below are our standards, and are suitable for most applications. In addition to these we can offer a variety of special belts. Application-specific belts can include, for example, teflon belts, velour belts or others with specific chemical resistance properties.

When selecting a belt, please note whether your application requires friction for continuous or incline applications, or whether you are looking for product accumulation.

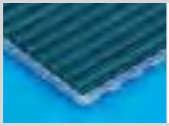
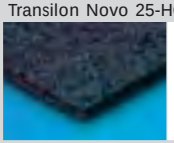


Belt type	KGF-P 2040 suitable	DGF-P 2001 suitable	Surface Texture	Allowable Temperature	Thickn. (mm)	Properties	Min. Pulley ø	Transport	Material	Belt Category
Transilon E2/1 U0/U2 white, **K10200**										
		•	smooth	-30 - +100°C	0,6	FDA suitable, antistatic, good traction	8 mm	continuous inclined	Urethane	1
Transilon E3/2 U0/U0 colorless, **K10203**										
		•	woven structure	-30 - +100°C	1,2	FDA suitable, antistatic, good for accumulation	8 mm	continuous accumulation	Urethane	2
Transilon E3/2 U0/U2 white, **K10214**										
		•	smooth	-30 - +100°C	1,4	FDA suitable, antistatic, good traction	8 mm	continuous inclined	Urethane	3
Transilon E3/2 U0/G8 NSTR green, **K10256**										
			woven structure	-30 - +100°C	2,0	antistatic, cut resistant	20 mm	continuous	NBR	3
Transilon E4/1 U0/V5H MT green, **K10201**										
			smooth	-10 - +70°C	1,1	antistatic, good for accumulation, side-discharge suitable	20 mm	continuous accumulation	PVC	1

Belt Conveyors
Belt Types

Belt type	KGF-P 2040 suitable	DGF-P 2001 suitable	Surface Texture	Allowable Temperature	Thickn. (mm)	Properties	Min. Pulley ø	Transport	Material	Belt Category
Transilon E5/2 0/0 colorless, **K10266**										
	•	•	woven	-10 - +70°C	1,4	antistatic	20 mm	continuous accumulation	Polyester	1
Transilon E5/2 0/V5 green, **K10202**										
	•	•	smooth	-10 - +70°C	1,9	antistatic, quiet	20 mm	continuous	PVC	1
Transilon E5/2 0/V5H MT black, **K10261**										
			smooth	-10 - +70°C	1,9	antistatic, troughability, quiet	40 mm	continuous	PVC	1
Transilon E6/2 U0/U2-M green, **K10241**										
			smooth	-30 - +100°C	1,9	FDA suitable, extremely laterally stiff, antistatic	50 mm	continuous inclined	Urethane	4
Transilon E8/2 U0/U2 green, **K10205**										
		•	smooth	-30 - +100°C	1,4	FDA suitable, laterally stiff, antistatic	20 mm	continuous	Urethane	2
Transilon E8/2 U0/V5 green, **K10204**										
			smooth	-10 - +70°C	2,1	quiet, good traction,	50 mm	continuous inclined	PVC	2
Transilon E8/2 U0/V20 AR green, **K10207**										
			high grip	-10 - +70°C	4,7	antistatic, very good traction, incline transport	50 mm	continuous inclined	PVC	3
Transilon E8/2 U0/V/U2H MT green, **K10217**										
			smooth	-10 - +70°C	1,5	antistatic, cut resistant	50 mm	accumulation	Urethane	2

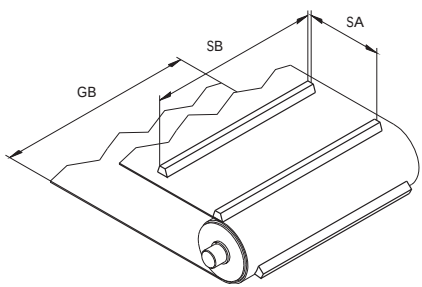
Belt Conveyors
Belt Types

Belt type	KGF-P 2040 suitable	DGF-P 2001 suitable	Surface Texture	Allowable Temperature	Thickn. (mm)	Properties	Min. Pulley ø	Transport	Material	Belt Category
Transilon E8/H U0/U2 MT HACCP white, **K10252**										
		•	smooth	-30 - +100°C	1,4	FDA suitable, laterally stiff, suitable for knife edge, antistatic	8 mm	continuous	Urethane	2
Transilon E8/2 0/U10 S/LG green, **K10253**										
			structure	-30 - +100°C	2,1	antistatic, good traction, incline transport, oily or greasy products	40 mm	continuous inclined	Urethane	4
Transilon E8/H U0/V10S LG black, **K10257**										
			structure	-10 - +70°C	2,3	antistatic, laterally stiff	40 mm	continuous inclined	PVC	2
Transilon Novo 25-HC black, **K10206**										
	•	•	felt	-10 - +120°C	2,5	antistatic, conductive (HC)	30 mm	continuous accumu-lation	Polyester	2

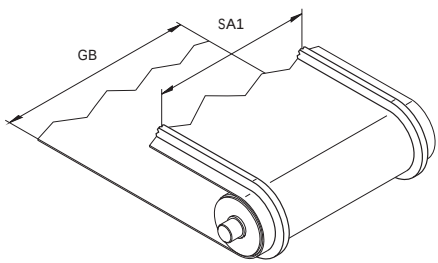
Belt Conveyors
Belt Types with Cleats

When selecting a cleat, please ensure that the belting and the cleat material are the same. Segmented lateral cleats as well as combinations of lateral and longitudinal cleats are possible. Other cleat profiles available on request.

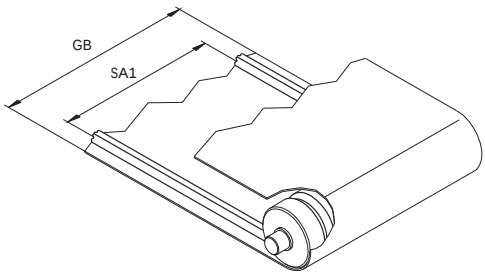
Lateral Cleats, topside
act as a pusher for the transported product, especially on inclined conveyors (for these applications, the following profiles may be used: K6, K10, K13, K15, K17, K30, F20/3, F30/8, T20U, T30U, T40U, T50U, T60U, T20, L40, L60)



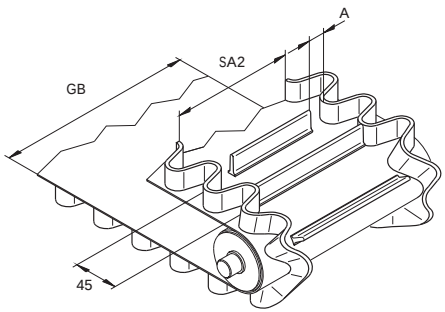
Longitudinal Cleats, topside
are used primarily for guiding the belt, e.g. as in inclined conveyors (for these applications, the following profiles may be used: K6, K10 and K13)



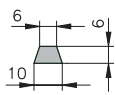
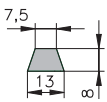
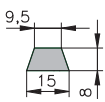
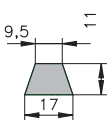
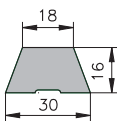
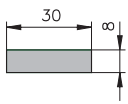
Longitudinal Cleats, underside
are a belt guide option and are usually used if lateral forces act on the belt. (for these applications, the following profiles may be used: K6, K10 and K13). Unevenness can occur in the conveyor belt in the area of longitudinal cleats.



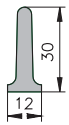
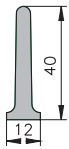
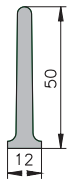
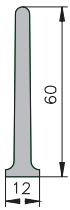
Sidewalls, topside
can be used instead of side guides and are used in particular in inclined conveyors (for these applications, the following profiles may be used: Fw2 x 30, Fw2 x 40 and Fw2 x 60).



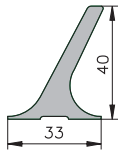
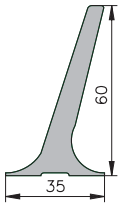
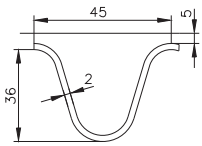
Belt Conveyors
Cleat Types

Cleat type	Color					Weight	Lateral	Longitudinal		
	PVC		PU				d_{min}	$SA_{1\ min}$	d_{min} approx. mm	
	green	white	colorl.	green	white	app.g/m	Drum ø appx.mm	in mm	Underside	Topside
K6	•	•	•			25	30	30	40	30
K10 	•	•	•			60	50	30	70	60
K13 	•	•	•			100	80	30	100	70
K15 	•		•			120	90	30	100	80
K17 	•	•	•			180	110	30	110	90
K30 	•					470	180	50	230	180
F20/3	•	•				75	70	30	70	50
F30/8 	•	•				290	120	45	120	90

Belt Conveyors
Cleat Types

Cleat type	Color					Weight	Lateral	Longitudinal		
	PVC		PU				d_{min} Drum ø	$SA_{1\ min}$	d_{min} approx. mm	
	green	white	colorl.	green	white	app.g/m	appx.mm	in mm	Underside	Topside
T20U				•	•	140	50			
T30U 				•	•	180	50			
T40U 				•	•	220	50			
T50U 				•	•	250	50			
T60U 				•	•	280	50			
T20	•	•				160	90			

Belt Conveyors
Cleat Types

Cleat type	Color					Weight	Lateral		Longitudinal	
	PVC		PU				d_{min}	$SA_{1\ min}$	d_{min} approx. mm	
	green	white	colorl.	green	white	app.g/m	Drum ø appx.mm	in mm	Underside	Topside
L40 	•	•				470	80			
L60 	•	•				600	80			
Fw2 Height = 30 mm Height = 40 mm Height = 60 mm 				• • •	• • •	130 170 240				80 125 150

Belt Conveyors

Application Examples

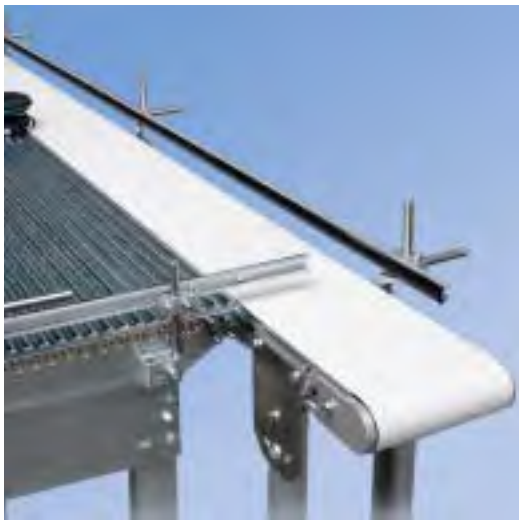
GUF-P Mini for integration into an existing system as transverse conveyor and singulator

Combination of two GUF-P 2000 for conveying slanted transport tanks

Mobile GUF-P 2000 featuring discharge chute with variable inclination angle

GUF-P 2000 with mechanism for folding and aligning paper bags before the filling process

GUF-P 2000 with mk wood profile and metal detector



GUF-P 2000 as transverse conveyor and singulator following a cooling section

Belt Conveyors

Application Examples

GUF-P 2000 with comb-style cleated belt

GUF-P 2041 with pneumatic deflector

GUF-P 2041 with adjustable side rail

GUF-P 2000 as transverse conveyor and singulator following a cooling section

GUF-P 2000 with drip pan and end stop

Recirculating system using two parallel GUF-P 2000 running in opposite directions

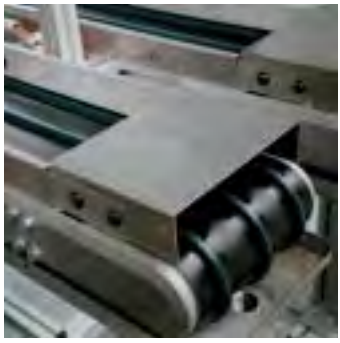
GUF-P 2000 with rolling nosebar

Belt Conveyors

Application Examples

GUF-P 2004 widths up to 2 m and belt lengths up to 20 m possible

GUF-P 2041 with guides for workpiece separation



GUF-P 2041 with drip pan and longitudinal cleats

Two GUF-P 2041 in tandem arrangement with mobile stand system for mobile double feeding of a system

GUF-P 2004 with separate working and return side of belt

GUF-P 2041 with belt for conveying sharp-edged products, e.g. metal stampings

Belt Conveyors

Application Examples

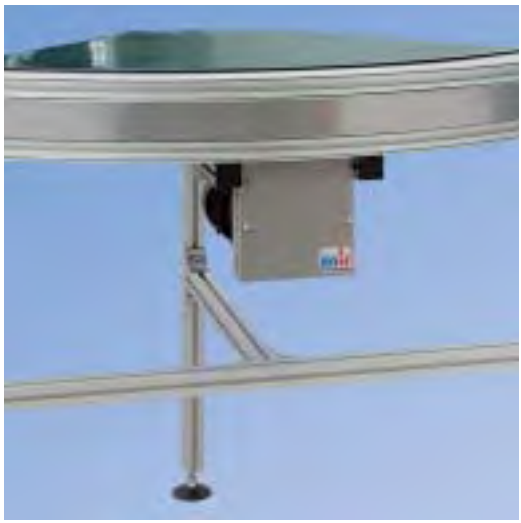
Nuts for the installation side rails or sensor plates can be inserted in the T-slots according to the customers' wishes

Two conveyor belts driven by one motor at the head drive

Several conveyor lanes linked via a center drive

The flat, side end of the KGF-P 2040 ensures short transfer paths

180° KGF-P 2040 with side rail



KGF-P 2040 with Drive Version BI

180° KGF-P 2040 with secured guard and inner radius 0 mm

Belt Conveyors

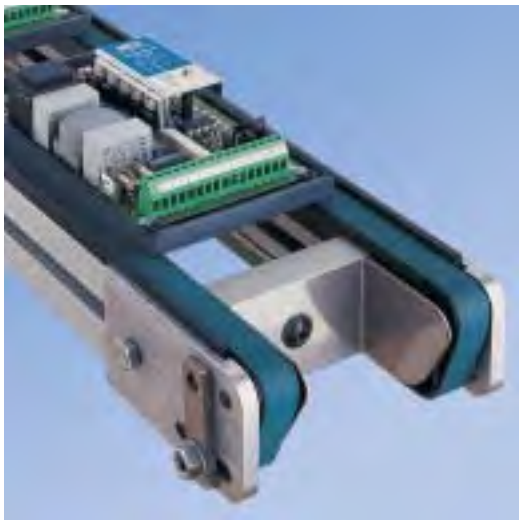
Application Examples

Standard-KGF-P 2040

Transfer between KGF-P 2040 and GUF-P 2041 with rolling nosebar for product lengths from 50 mm

Combination of two GUF-P 2000 arranged in parallel. The space between the belts enables access from underneath

DGF-P 2001 with side rail for extra-wide products



Standard DGF-P 2001 with pallets for inserting printed circuit board components