

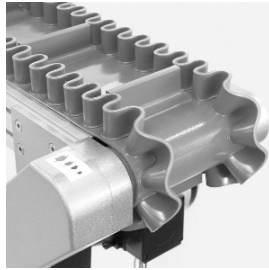
MAX CONVEYORS GTB



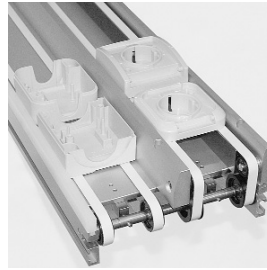
CUSTOMIZED SOLUTIONS



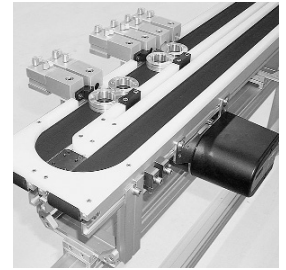
Assembly



Watch industry



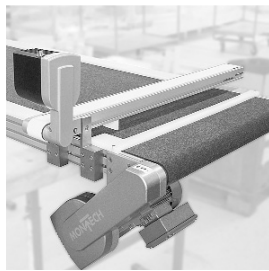
Electronics industry



Construction industry



Mechanical engineering



Plastics industry



Printing industry



Automotive suppliers



Automotive



Medical industry



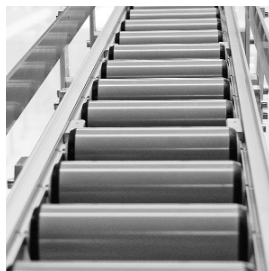
Automotive suppliers



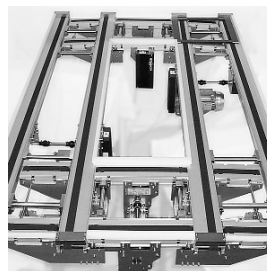
Solar industry



Medical industry



Automotive suppliers



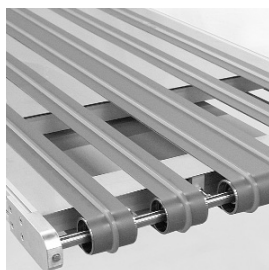
Mechanical engineering



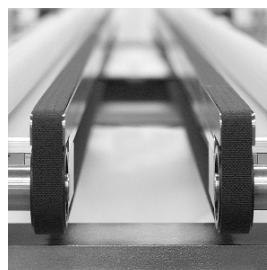
Airport industry



Airport industry

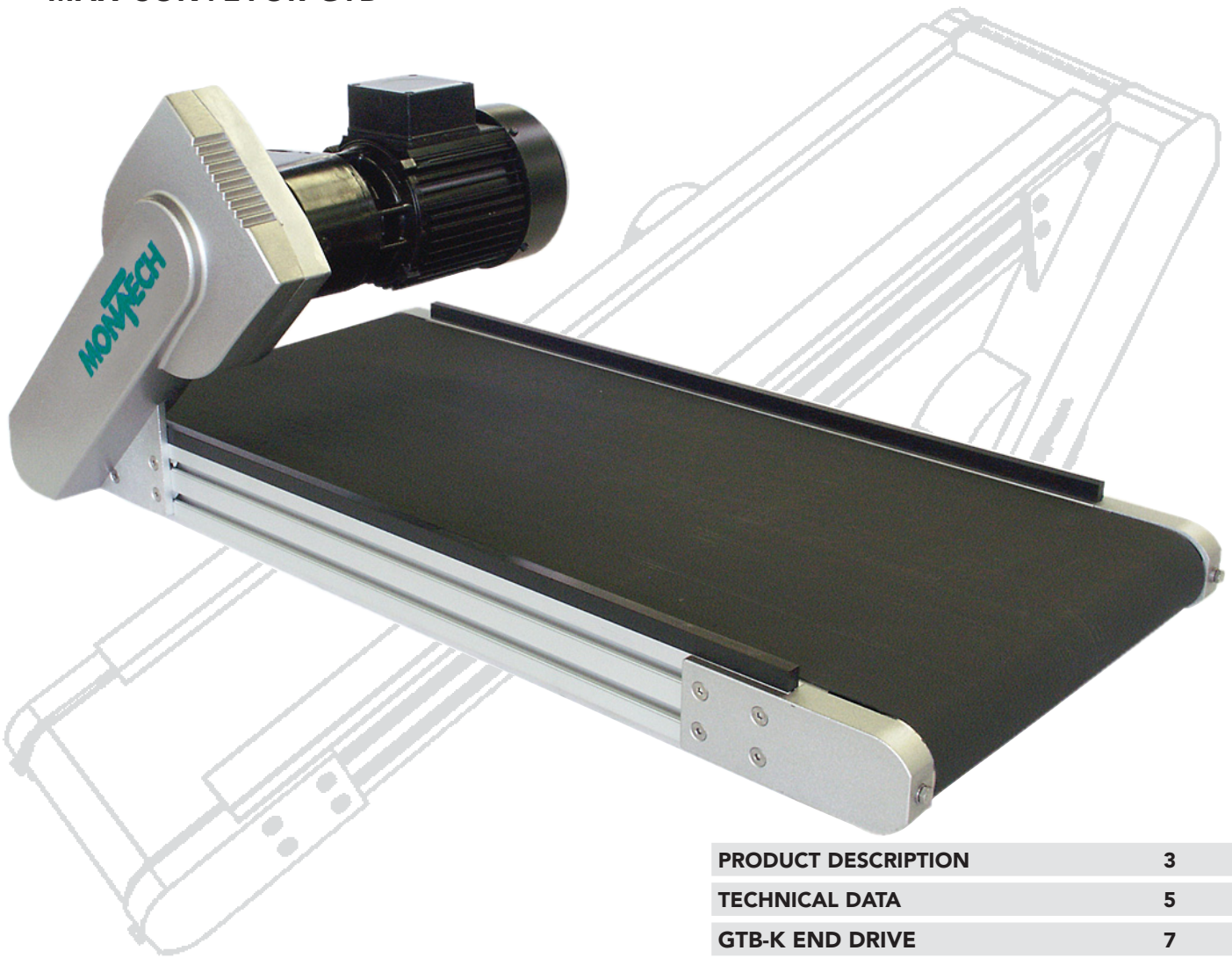


Automotive



Electronics industry

MAX CONVEYOR GTB



| | |
|---------------------|----|
| PRODUCT DESCRIPTION | 3 |
| TECHNICAL DATA | 5 |
| GTB-K END DRIVE | 7 |
| ACCESSORIES | 20 |

Max conveyors GTB are used to carry parts to or from the various manufacturing stations, or combined to form complete transport systems. The modular construction of the system permits simple adaptation to **specific customer requirements**.

The conveyor is driven by a 230/400 V spur gear motor. This permits transportation of up to 125 kg in conveying mode. The following chassis widths are available: 200, 300, 400, 500, 600, 700 and 800 mm (widths up to 1200 mm on request).

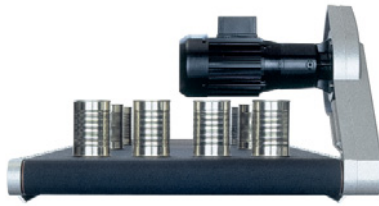
The max conveyor is available with end drive. The warranty is **24 months** from date of delivery.

Modifications may be made without notice.

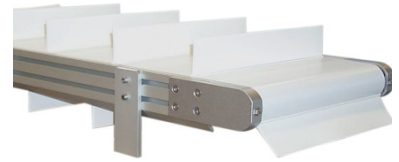
MAX CONVEYORS GTB - PRODUCT DESCRIPTION



GTB-K end drive



Products up to 80 mm height



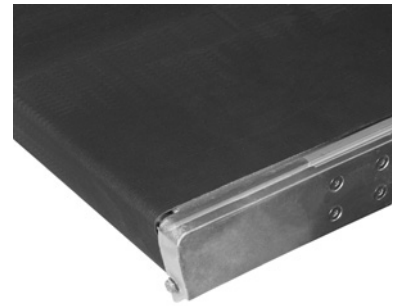
Use of cleated belt



Sprockets and chain



End section Ø60 mm



Nose bar Ø15 mm

The belt speed can be altered by **simply exchanging sprockets and chain** or with the aid of a frequency converter, if variable speed is requested.

Conveyor products are complemented by our full range of accessories and special fittings (dependent on the chassis width selected). This includes various belt types for different applications, stands and lateral guides.

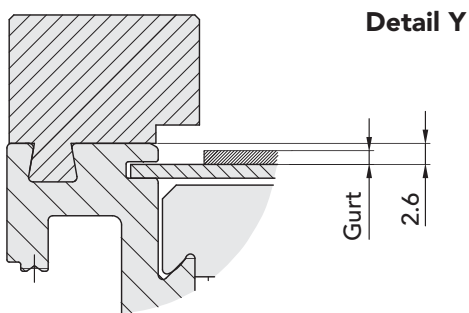
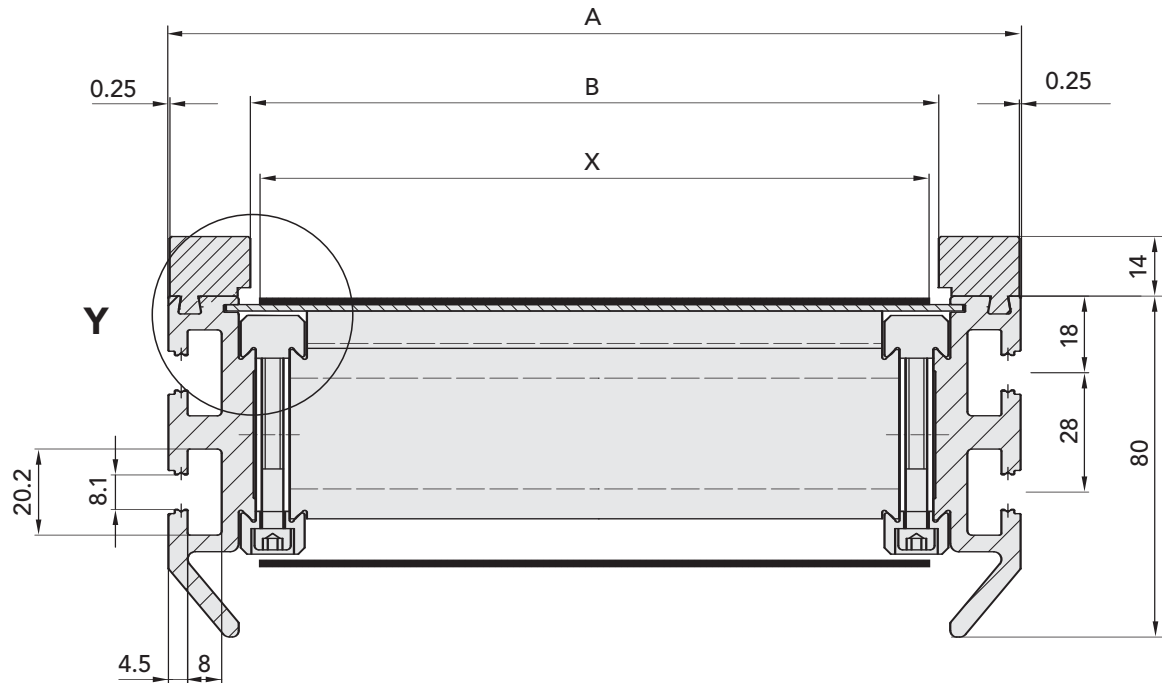
Accessories can be included in the future easily, quickly and without mechanical processing.

MAX CONVEYORS GTB - TECHNICAL DATA

| | |
|------------------------------|--|
| Ambient temperature | +10 at +40 °C |
| Rel. Humidity | < 95% (without condensation) |
| Air purity | normal workshop atmosphere |
| Noise level | < 60 dBA |
| Gear motor | end drive |
| Voltage/frequency | 3×230V/50 Hz 3×400V/50 Hz |
| | frequency converter 1 x 230 V/50 Hz |
| Category of protection | IP 54 |
| Type of switching | delta/star |
| Insulation of motor windings | for frequency converter operation with phase isolation |
| Thermal protection | 2 thermal sensors (from 130 °C) |
| Start/stop operation | 20 pulses per minute |
| On-time | 100% |
| Material | Profile lateral aluminum, anodized natural |
| Deflecting rollers | steel |
| Drive roller | rubber-coated aluminum PU, steel |
| Gear motor | aluminium |
| Sliding plate | nickel-plated/option stainless steel |
| Connecting support | aluminum, anodized natural, plastic |

| Weight (base L = 1000 mm) | | end drive [kg] | Extension per meter [kg] |
|---------------------------|---------|----------------|--------------------------|
| Type | GTB-200 | 25.8 | 6.9 |
| | GTB-300 | 28.8 | 8.4 |
| | GTB-400 | 31.9 | 9.9 |
| | GTB-500 | 35.2 | 11.4 |
| | GTB-600 | 38.5 | 12.8 |
| | GTB-700 | 41.8 | 14.3 |
| | GTB-800 | 45.1 | 15.8 |

MAX CONVEYORS GTB - BUILDUP/CROSS-SECTION



| Type | GTB-200 | GTB-300 | GTB-400 | GTB-500 | GTB-600 | GTB-700 | GTB-800 |
|------------|---------|---------|---------|---------|---------|---------|---------|
| A [mm] | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| B ± 0.5 mm | 128-166 | 228-266 | 328-366 | 428-466 | 528-566 | 628-666 | 728-766 |
| X | 157 | 257 | 357 | 457 | 557 | 657 | 757 |

MAX CONVEYOR WITH END DRIVE GTB-K - PRODUCT DESCRIPTION



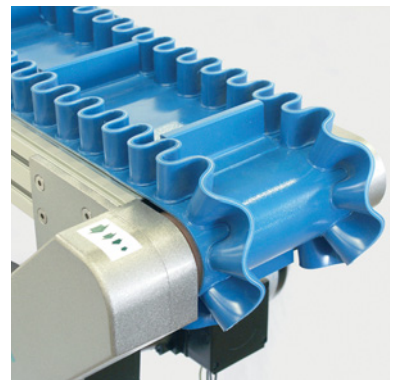
The **Max conveyor with end drive GTB-K** is driven by a 230/400 V spur gear motor. This permits transportation of up to 125 kg in conveying mode. The following chassis widths are available: 200, 300, 400, 500, 600, 700 and 800 mm (widths up to 1200 mm on request). The GTB-K model is a variant at affordable costs thanks to its simple construction.

The end drive version can be fitted above or below the belt depending on available space. The top drive version can transport products up to 80 mm high. The possible belt length is between 1 and 6 m.

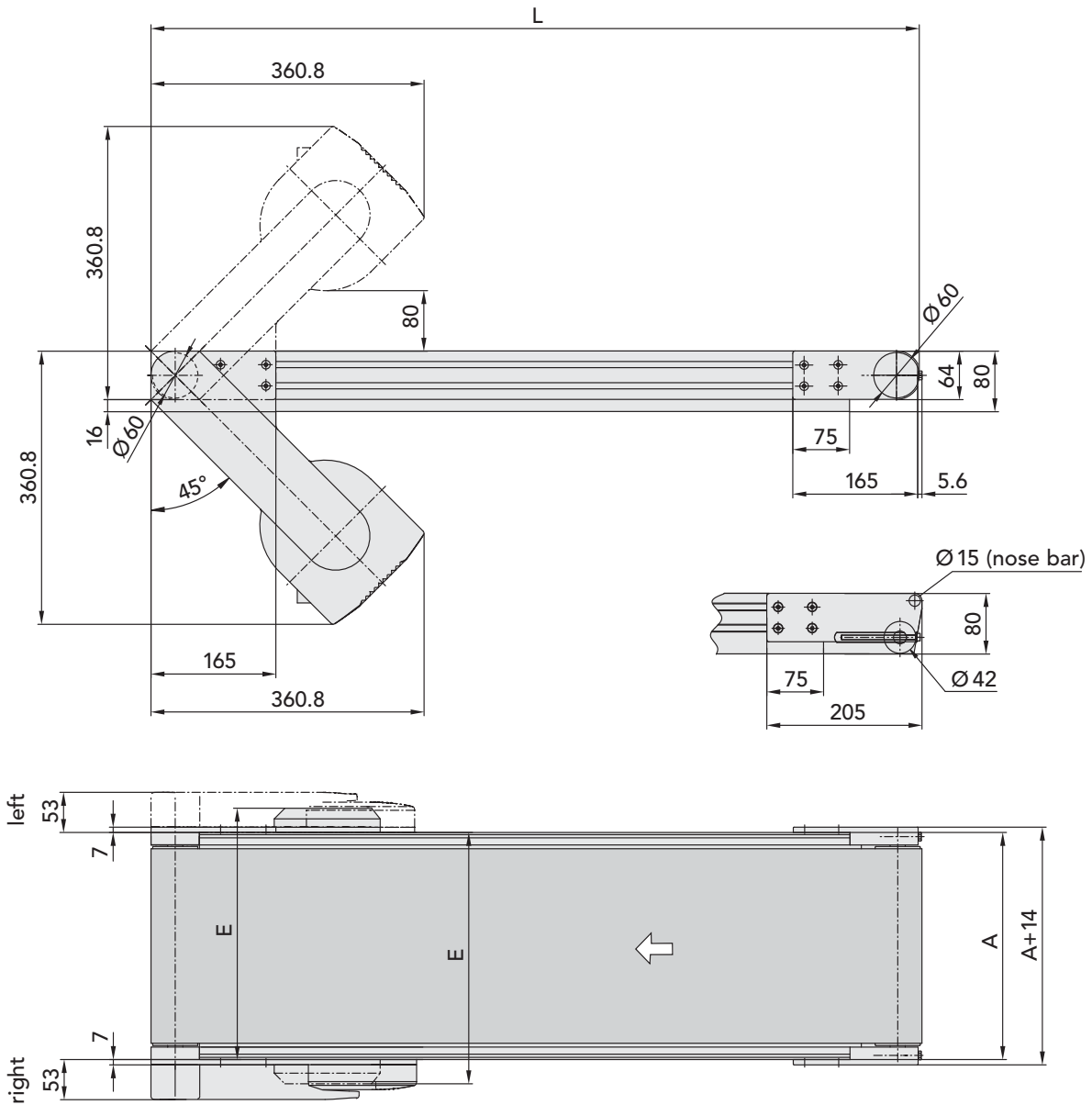
The 60 mm diameter of the deflecting rollers permits the use of **cleated belts**.

The belt speed can be altered by simply exchanging sprockets and chain or with the aid of a frequency converter, if variable speed is requested.

Accessories can be included in the future easily, quickly and without mechanical processing.



MAX CONVEYOR WITH END DRIVE GTB-K - DIMENSIONS



| Type | GTB-200K | GTB-300K | GTB-400K | GTB-500K | GTB-600K | GTB-700K | GTB-800K |
|------------|---|---------------|-------------|--------------|--------------|----------|----------|
| A [mm] | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| L | min. 1m / max. 6 m – belts shorter than 1m and longer than 6 m on request | | | | | | |
| Gear motor | 3G90F71/4D63b4-8 | G90F/4D63b4-8 | G90F/4D63b4 | G90F/4D71L-4 | G80F/4D71b-4 | | |
| Ref. No. | 507041 | 508293 | 508294 | 508295 | 507038 | | |
| E [mm] | 389 | 329 | 329 | 384 | 325 | | |

BELT TYPES

| Manufacturer's designation Belt-number | FNB-5E 10 | FNI-5E 12 | ENI-5EE 15 | HNB-5E 14 20 | HAT-5E 21 | NAB-8EEDV 11 59 | NHB-5EKBV 54 |
|--|--------------|--------------|------------------|-----------------|--------------|--------------------|-----------------|
| Thickness [mm] | 1.3 | 0.9 | 1.2 | 1.3 | 1.5 | 2 | 1 |
| Dimensions [kg/m ²] | 1.5 | 0.9 | 1.2 | 1.5 | 1.8 | 2.3 | 1.2 |
| Min. drum Ø [mm] | 15 | 15 | 20 | 15 | 25 | 32 | 30 |
| k _{1%} [N/mm] | 4.6 | 4.4 | 4.2 | 4.8 | 4.8 | 6 | 3.2 |
| k _{perm.} [N/mm] | 8 | 8 | 8 | 11 | 8 | 9 | 5 |
| Operat. temp., continous [°C] | -15/80 | -30/80 | -30/80 | -20/90 | 0/80 | -10/70 | -10/70 |
| Field of use | L, Ch, Ph | L, Ch, Ph | Mo, El | L, Ch, Ph, | Ho | L, Ch, Ph | Mo, El |
| Method of transport: horizontal buffering rejection of goods inclined | X X X | X X X | X X X X | X X X | X | X X X | X X |
| Surface of conveying side | smooth | fabric | structured | smooth | structured | smooth | smooth |
| Cleats | yes | no | no | yes | no | yes | yes |
| Color of conveying side | white | white | black | green | green | dark green | black |
| Nose bar ¹⁾ | yes | yes | yes | yes | no | no | no |
| Antistatic | yes | yes | yes | yes | yes | yes | yes |
| Suitable for food | EU/FDA | EU/FDA | no | EU/FDA | no | no | no |

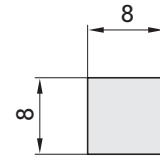
k_{1%} Required force for 1% rotation
k_{perm.} Maximum permissible force
EU meets European food regulations
FDA meets US food regulations

L Food
Ch Chemistry
Ph Pharmaceuticals
Mo Mounting systems, general
El Electronics industry (electrically conductive)
Oe Effect of oil and grease
HT For high operating temperatures
Dr Printing industry
Ho High-performance belt, high mechanical
and chemical resistance
St Standard belts

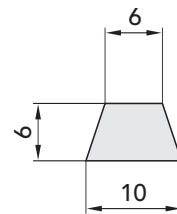
1) Important! Cleats not possible in combination with nose bar!

MAX CONVEYOR WITH END DRIVE GTB-K - CLEATS¹⁾

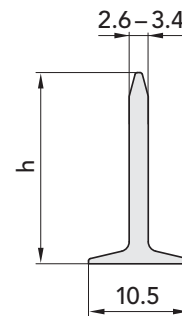
| Manufacturer's designation | POS-8 | PQF-8 |
|------------------------------------|---------------------------|---------------------|
| Suitable for belt type | NAB-8EEDV 11 NHB-5EKBV | FNB-5E HNB-5E 14 |
| Field of application ²⁾ | St | L, Ch, Ph |
| Min. cleat spacing A [mm] | 40 | 40 |
| Color | dark-gray | white |



| Manufacturer's designation | PVS-10 | PVF-10 |
|------------------------------------|---------------------------|---------------------|
| Suitable for belt type | NAB-8EEDV 11 NHB-5EKBV | FNB-5E HNB-5E 14 |
| Field of application ²⁾ | St | L, Ch, Ph |
| Min. cleat spacing A [mm] | 40 | 40 |
| Color | dark-gray | white |



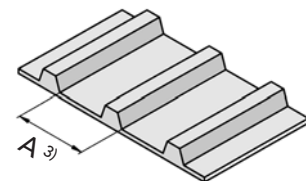
| Manufacturer's designation | PNF | PNH |
|------------------------------------|---|---|
| Suitable for belt type | FNB-5E, HNB-5E 14 | |
| Field of application ²⁾ | L, Ch, Ph | L, Ch, Ph |
| Min. cleat spacing A [mm] | 25 | 25 |
| Color | white | green |
| Cleat height h [mm] | 20 (PNF-20) 30 (PNF-30) 40 (PNF-40) | 20 (PNH-20) 30 (PNH-30) 40 (PNH-40) |



Cleat spacing

$$\text{Cleat spacing } A = \frac{2 \times \text{length } L \text{ [mm]}^4 + 60}{\text{number of cleats}}$$

$$\text{Number of cleats} = \frac{2 \times \text{length } L \text{ [mm]}^4 + 60}{\text{cleat spacing } A}$$



- 1) Cleated belts require at least two weeks delivery time
- 2) For legend, see page 9
- 3) The tolerance of the cleat spacing A is ± 2 mm
- 4) Length L see page 8

MAX CONVEYORS WITH END DRIVE GTB-K - LOADING LIMITS

End- drive in conveying mode

| Belt speed | Belt width | FNB-5E | FNI-5E | ENI-5EE | HNB-5E 14 | HAT-5E | NAB-8EIVW 11 | NHB-5EKBV |
|--------------------|------------|--------|--------|---------|-----------|--------|--------------|-----------|
| [m/min] | [mm] | [kg] | [kg] | [kg] | [kg] | [kg] | [kg] | [kg] |
| from 0.5 bis 39.6 | 157-757 | 125 | 125 | 125 | 125 | 125 | 125 | 70 |
| from 47.9 bis 56.6 | 157-757 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |

End drive in buffering mode

| Belt speed | Belt width | FNB-5E | FNI-5E | ENI-5EE | HNB-5E 14 | HAT-5E | NAB-8EIVW 11 | NHB-5EKBV |
|--------------------|------------|--------|--------|---------|-----------|--------|--------------|-----------|
| [m/min] | [mm] | [kg] | [kg] | [kg] | [kg] | [kg] | [kg] | [kg] |
| from 0.5 bis 39.6 | 157-757 | 60 | 90 | 90 | 51 | - | - | 35 |
| from 47.9 bis 56.6 | 157-757 | 24 | 36 | 36 | 20 | - | - | 24 |

MAX CONVEYORS WITH END DRIVE GTB-K - LOADING LIMITS

| Belt speed | | Mode of drive | | | | | | | | | | |
|-----------------------------|--|------------------|----------------|------------------|----------------|----------------|----------------|---------------------|----------------|----------------|----------------|---------------------------------------|
| | | 1 x 230 V | | | | | 3 x 230 V | | | | | |
| v _{fix} [m/min] | v variable v _{min.} v _{max.} [m/min] | 3 x 230 V, 50 Hz | | 3 x 400 V, 50 Hz | | Capacitor | | Frequency converter | | v | | |
| | | B _A | B _D | B _A | B _D | B _A | B _D | B _A | B _D | B _A | B _D | |
| 0.5 | 0.13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 % | 100 % | 0.13 - 1.1 | 3.1 - 3.7 | -94.40 · v _{eff} + 392.3 = % |
| 0.6 | 0.16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 % | 100 % | 0.16 - 1.2 | 3.4 - 4.3 | -70.84 · v _{eff} + 340.0 = % |
| 0.7 | 0.18 | 100 | 100 | 100 | 100 | 100 | 100 | 100 % | 100 % | 0.18 - 1.5 | 3.7 - 5.1 | -50.72 · v _{eff} + 287.7 = % |
| 0.9 | 0.23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 % | 100 % | 0.23 - 1.8 | 4.0 - 6.4 | -31.61 · v _{eff} + 227.1 = % |
| 1.1 | 0.28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 % | 100 % | 0.28 - 2.3 | 4.1 - 8.2 | -19.44 · v _{eff} + 178.1 = % |
| 1.3 | 0.35 | 100 | 100 | 100 | 100 | 100 | 100 | 100 % | 100 % | 0.35 - 2.8 | 4.5 - 9.0 | -16.21 · v _{eff} + 162.6 = % |
| 1.8 | 0.47 | 31 | 79 | 100 | 100 | 31 | 79 | 100 % | 100 % | 0.47 - 3.1 | 11.5 - 12.7 | -24.79 · v _{eff} + 386.2 = % |
| 2.1 | 0.54 | 30 | 76 | 100 | 100 | 30 | 76 | 100 % | 100 % | 0.54 - 3.4 | 12.7 - 15.0 | -17.75 · v _{eff} + 326.8 = % |
| 2.5 | 0.64 | 28 | 71 | 100 | 100 | 28 | 71 | 100 % | 100 % | 0.64 - 3.7 | 13.7 - 17.3 | -13.33 · v _{eff} + 283.2 = % |
| 3.2 | 0.8 | 25 | 64 | 100 | 100 | 25 | 64 | 100 % | 100 % | 0.80 - 4.0 | 14.5 - 22.6 | - 7.80 · v _{eff} + 216.6 = % |
| 4.1 | 1.0 | 21 | 54 | 100 | 100 | 21 | 54 | 98 % | 98 % | 1.00 - 4.1 | 14.7 - 27.9 | - 5.11 · v _{eff} + 175.3 = % |
| 4.5 | 1.2 | 20 | 50 | 100 | 100 | 20 | 50 | 90 % | 90 % | 1.20 - 4.5 | 15.1 - 30.2 | - 4.26 · v _{eff} + 160.1 = % |
| 6.3 | 1.6 | 51 | 100 | 100 | 100 | 51 | 100 | 100 % | 100 % | 1.60 - 11.5 | 26.2 - 39.7 | - 2.54 · v _{eff} + 166.7 = % |
| 7.5 | 1.9 | 49 | 100 | 100 | 100 | 49 | 100 | 100 % | 100 % | 1.90 - 12.7 | 27.4 - 54.2 | - 1.37 · v _{eff} + 122.2 = % |
| 8.7 | 2.2 | 46 | 100 | 100 | 100 | 46 | 100 | 100 % | 100 % | 2.20 - 13.7 | 31.7 - 64.0 | - 1.03 · v _{eff} + 105.9 = % |
| 11.3 | 2.8 | 40 | 100 | 100 | 100 | 40 | 100 | 100 % | 100 % | 2.80 - 14.5 | 40.1 - 79.2 | - 0.64 · v _{eff} + 83.6 = % |
| 13.9 | 3.5 | 35 | 100 | 100 | 100 | 35 | 100 | 100 % | 100 % | 3.50 - 14.7 | 66.0 - 95.9 | - 2.25 · v _{eff} + 247.1 = % |
| 15.3 | 3.8 | 32 | 100 | 100 | 100 | 32 | 100 | 96 % | 96 % | 3.80 - 15.1 | 68.3 - 113.3 | - 1.60 · v _{eff} + 209.1 = % |
| 19.9 | 5.0 | 28 | 82 | 100 | 100 | 28 | 82 | 100 % | 100 % | 5.00 - 26.2 | | |
| 27.1 | 6.8 | 26 | 76 | 100 | 100 | 26 | 76 | 85 % | 85 % | 6.80 - 27.4 | | |
| 31.3 | 8.0 | 25 | 72 | 100 | 100 | 25 | 72 | 73 % | 73 % | 8.00 - 31.7 | | |
| 39.6 | 9.9 | 22 | 65 | 100 | 100 | 22 | 65 | 58 % | 58 % | 9.90 - 40.1 | | |
| 47.9 ¹⁾ | 12.0 | 50 | 100 | 100 | 100 | 50 | 100 | 100 % | 100 % | 12.00 - 66.0 | | |
| 56.6 ¹⁾ | 14.2 | 43 | 100 | 100 | 100 | 43 | 100 | 100 % | 100 % | 14.20 - 68.3 | | |

1) For max conveyors with nose bar the maximum permissible speed is 39.6 m/min also in use with frequency converter.

MAX CONVEYORS WITH END DRIVE GTB-K - TECHNICAL DATA DRIVE

| Belt speed [m/min] | Motor | Gear | Spur gear | Current consumption | | | | | | | |
|-----------------------|-------------------|------|-----------|---------------------|---------------------|--------------------------|-----------------------|------------------------|------------------------|----------------------------|----------|
| | | | | Gear reduction i | No. of driving teet | No. of drive roller teet | Ref. No. sprocket set | 3 x 230 V 50 Hz [A] | 3 x 400 V 50 Hz [A] | 1 x 230 V Capacitor [A] | |
| 0.5 | 3G90F/71/4D63b4-8 | | | 507041 | 162.85 : 1 | 11 | 15 | 54900 | 0.70 | 0.40 | 0.98 |
| 0.6 | 3G90F/71/4D63b4-8 | | | 507041 | 162.85 : 1 | 11 | 13 | 54905 | 0.70 | 0.40 | 0.98 |
| 0.7 | 3G90F/71/4D63b4-8 | | | 507041 | 162.85 : 1 | 15 | 15 | 54901 | 0.70 | 0.40 | 0.98 |
| 0.9 | 3G90F/71/4D63b4-8 | | | 507041 | 162.85 : 1 | 19 | 15 | 54902 | 0.70 | 0.40 | 0.98 |
| 1.1 | 3G90F/71/4D63b4-8 | | | 507041 | 162.85 : 1 | 19 | 13 | 54903 | 0.70 | 0.40 | 0.98 |
| 1.3 | 3G90F/71/4D63b4-8 | | | 507041 | 162.85 : 1 | 23 | 13 | 54904 | 0.70 | 0.40 | 0.98 |
| 1.8 | G90F/4D63b4-8 | | | 508293 | 43.91 : 1 | 11 | 15 | 54900 | 0.70 | 0.40 | 0.98 |
| 2.1 | G90F/4D63b4-8 | | | 508293 | 43.91 : 1 | 11 | 13 | 54905 | 0.70 | 0.40 | 0.98 |
| 2.5 | G90F/4D63b4-8 | | | 508293 | 43.91 : 1 | 15 | 15 | 54901 | 0.70 | 0.40 | 0.98 |
| 3.2 | G90F/4D63b4-8 | | | 508293 | 43.91 : 1 | 19 | 15 | 54902 | 0.70 | 0.40 | 0.98 |
| 4.1 | G90F/4D63b4-8 | | | 508293 | 43.91 : 1 | 21 | 13 | 54906 | 0.70 | 0.40 | 0.98 |
| 4.5 | G90F/4D63b4-8 | | | 508293 | 43.91 : 1 | 23 | 13 | 54904 | 0.70 | 0.40 | 0.98 |
| 6.3 | G90F/4D63b4 | | | 508294 | 30.19 : 1 | 11 | 15 | 54900 | 1.04 | 0.60 | 1.46 |
| 7.5 | G90F/4D63b4 | | | 508294 | 30.19 : 1 | 13 | 15 | 54907 | 1.04 | 0.60 | 1.46 |
| 8.7 | G90F/4D63b4 | | | 508294 | 30.19 : 1 | 15 | 15 | 54901 | 1.04 | 0.60 | 1.46 |
| 11.3 | G90F/4D63b4 | | | 508294 | 30.19 : 1 | 17 | 13 | 54908 | 1.04 | 0.60 | 1.46 |
| 13.9 | G90F/4D63b4 | | | 508294 | 30.19 : 1 | 21 | 13 | 54906 | 1.04 | 0.60 | 1.46 |
| 15.3 | G90F/4D63b4 | | | 508294 | 30.19 : 1 | 23 | 13 | 54904 | 1.04 | 0.60 | 1.46 |
| 19.9 | G90F/4D71L-4 | | | 508295 | 9.3 : 1 | 11 | 15 | 54900 | 2.80 | 1.60 | not |
| 27.1 | G90F/4D71L-4 | | | 508295 | 9.3 : 1 | 15 | 15 | 54901 | 2.80 | 1.60 | possible |
| 31.3 | G90F/4D71L-4 | | | 508295 | 9.3 : 1 | 15 | 13 | 54907 | 2.80 | 1.60 | not |
| 39.6 | G90F/4D71L-4 | | | 508295 | 9.3 : 1 | 19 | 13 | 54903 | 2.80 | 1.60 | possible |
| 19.9 | G80F/4D71b-4 | | | 507038 | 9.53 : 1 | 11 | 15 | 54900 | 2.80 | 1.60 | not |
| 27.1 | G80F/4D71b-4 | | | 507038 | 9.53 : 1 | 15 | 15 | 54901 | 2.80 | 1.60 | possible |
| 31.3 | G80F/4D71b-4 | | | 507038 | 9.53 : 1 | 15 | 13 | 54907 | 1.82 | 1.05 | 2.55 |
| 39.6 | G80F/4D71b-4 | | | 507038 | 9.53 : 1 | 19 | 13 | 54903 | 1.82 | 1.05 | 2.55 |
| 47.9 | G80F/4D71b-4 | | | 507038 | 9.53 : 1 | 23 | 13 | 54904 | 1.82 | 1.05 | 2.55 |
| 56.6 | G80F/4D71b-4 | | | 507038 | 9.53 : 1 | 23 | 11 | 54909 | 1.82 | 1.05 | 2.55 |

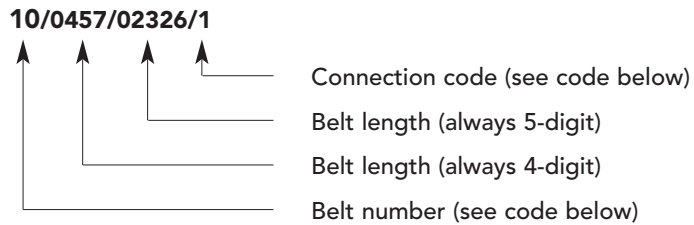
All motors are fitted with heat sensors (130 °C).

MAX CONVEYOR GTB - BELT FABRICATION

Montech procures the belt for you according to the list of belt codes below.

LIST OF BELT CODES

Structure of our code:



| No. | Belt designation | Connection code | Supplier |
|-----|------------------|-----------------|----------|
| 10 | FNB-5E | 1 / 2 / 3 / 4 | Habasit |
| 12 | FNI-5E | 1 / 2 / 3 / 4 | Habasit |
| 15 | ENI-5EE | 1 / 3 / 4 | Habasit |
| 20 | HNB-5E 14 | 1 / 3 / 4 | Habasit |
| 21 | HAT-5E | 1 / 3 / 4 | Habasit |
| 54 | NHB-5EKBV | 1 / 3 / 4 | Habasit |
| 59 | NAB-8EEDV11 | 1 / 3 / 4 | Habasit |

Connection code 1 = endless flexproof
 Connection code 2 = endless thermofix
 Connection code 3 = open beveled
 Connection code 4 = cut square

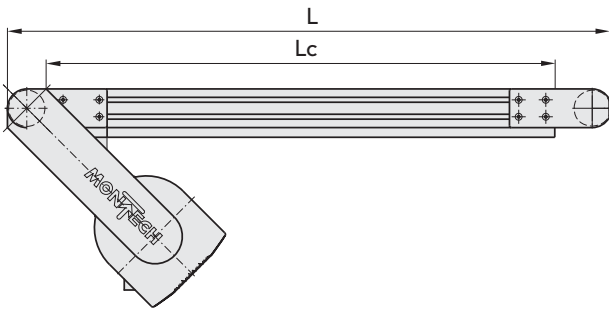
Connection code 1 is preferable!

CALCULATION OF BELT LENGTH

It can be downloaded from our homepage (www.montech.com).
 You can find the file Gurtlänge GTBxls under
 Support ⇒ Service forms.

MAX CONVEYOR WITH END DRIVE GTB-K - CALCULATION FORMULAS

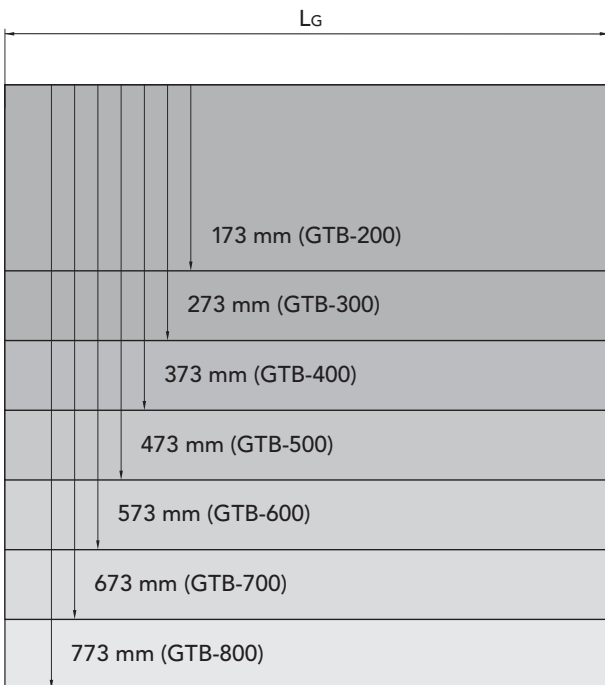
Calculation of lateral guide length



GTB with 2 deflection rollers
 \varnothing 60 mm:
 $L_c = L - 154$ mm

TB with 1 deflection roller
 \varnothing 60 mm and 1 nose bar:
 $L_c = L - 194$ mm

Calculation of sliding plate length



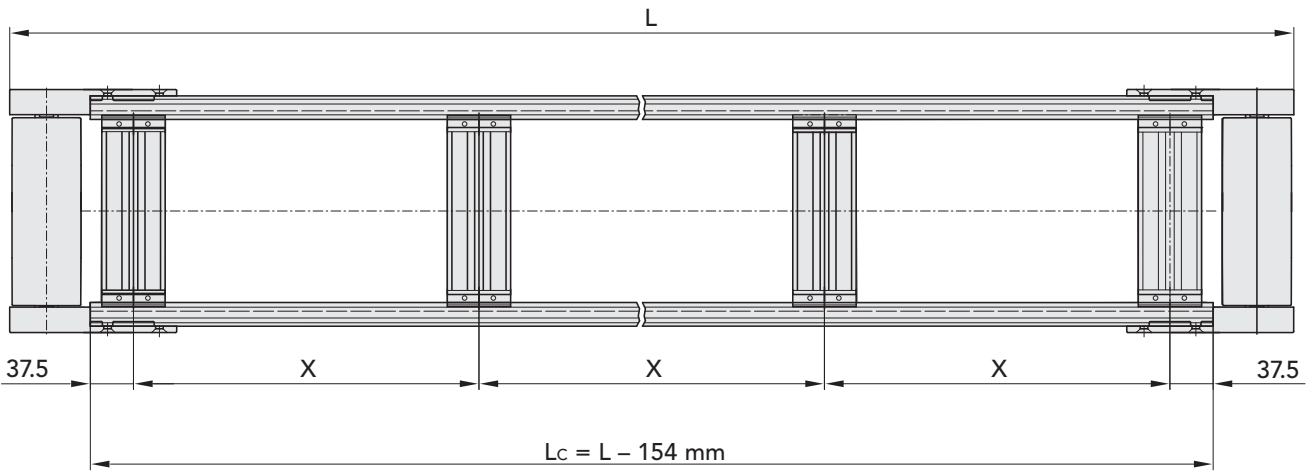
GTB-K with 2 deflection rollers
 \varnothing 60 mm:
 $L_g = L - 140$ mm

GTB-K with 1 deflection roller
 \varnothing 60 mm and 1 nose bar:
 $L_g = L - 86$ mm

Calculation of belt length

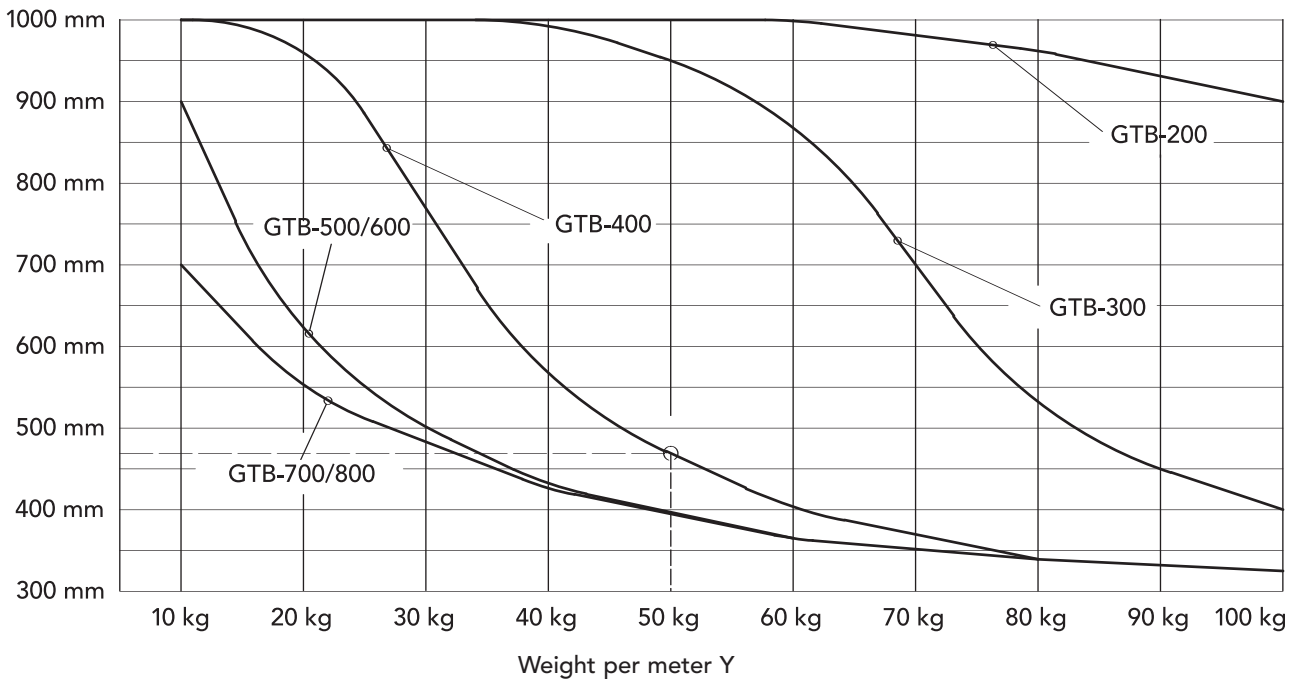
An Excel table is used for calculating the belt length. It can be downloaded from our homepage (www.montech.com). You can find the file Gurtlänge GTBxls under Support \Rightarrow Service forms.

MAX CONVEYOR WITH END DRIVE GTB-K - SUPPORT SPACING CALCULATION



| | |
|-----------------------|---|
| L in mm | Length of conveyor |
| Lc in mm | Length of profile lateral |
| Dimension X in mm | Spacing between supports |
| Weight Y in kilograms | Loading of belt per 1000 mm. The total loading over the entire length of the conveyor must not exceed 125 kg maximum in conveying mode, refer also to table of loading limits, page 13. |

Dimension X



Due to high surface loading, additional supports are necessary to increase the stability of the sliding plate. The optimum number of supports is calculated from the above diagram.

Determination of dimension X

1. Determine belt load per meter (e.g. 50 kg).
2. Choose the curve of conveyor belt selected (e.g. GTB-400).
3. Determine point of intersection of curve and weight per meter Y and read dimension X from table (gives a dimension of 470 mm).

MAX CONVEYORS WITH END DRIVE GTB-K - COMPONENTS

| GTB spur gear motors, 50Hz | Ref. No. |
|------------------------------------|----------------|
| 3G90F71/4D63b4-8 (v=0.5–1.3 m/min) | 507041 |
| G90F/4D63b4-8 (v=1.8–4.5 m/min) | 508293 |
| G90F/4D63b4 (v=6.3–15.3 m/min) | 508294 |
| G90F/4D71L-4 (v=19.9–39.6 m/min) | 508295 |
| G80F/4D71b-4 (v=19.9–56.6 m/min) | 507038* |

* **not** possible with nose bar

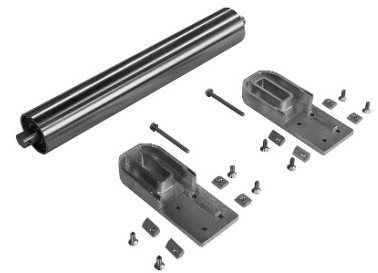
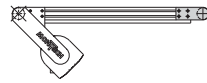


| GTB-K sprocket set | Ref. No. |
|------------------------------------|--------------|
| v=0.5/1.8/6.3/19.9 m/min, z=11/15 | 54900 |
| v=0.7/2.5/8.7/27.1 m/min, z=15/15 | 54901 |
| v=0.9/3.2 m/min, z=15/19 | 54902 |
| v=1.1/39.6 m/min, z=13/19 | 54903 |
| v=1.3/4.5/15.1/47.9 m/min, z=13/23 | 54904 |
| v=0.6/2.1 m/min, z=11/13 | 54905 |
| v=4.1/13.9 m/min, z=13/21 | 54906 |
| v=7.5/31.3 m/min, z=13/15 | 54907 |
| v=11.3 m/min, z=13/17 | 54908 |
| v=56.6 m/min, z=11/23 | 54909 |



MAX CONVEYORS WITH END DRIVE GTB-K - COMPONENTS

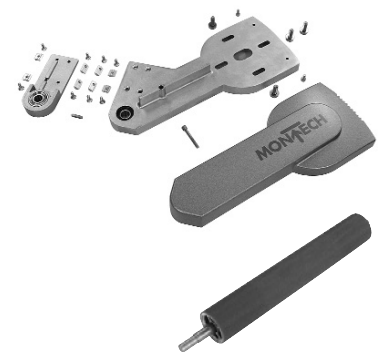
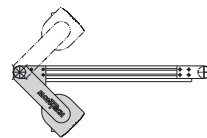
| GTB-K end with deflection roller | Ref. No. |
|----------------------------------|----------|
| GTB-200 | 58041 |
| GTB-300 | 58042 |
| GTB-400 | 58043 |
| GTB-500 | 58044 |
| GTB-600 | 58045 |
| GTB-700 | 58046 |
| GTB-800 | 58047 |



| GTB-K end with nose bar | Ref. No. |
|-------------------------|----------|
| GTB-200 | 67707 |
| GTB-300 | 67706 |
| GTB-400 | 67708 |
| GTB-500 | 67709 |
| GTB-600 | 67710 |
| GTB-700 | 67711 |
| GTB-800 | 67712 |

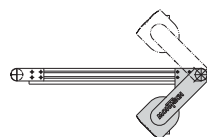


| GTB-KRU/KLO drive unit | Ref. No. |
|------------------------------|----------|
| GTB-200KRU/KLO ¹⁾ | 58055 |
| GTB-300KRU/KLO ¹⁾ | 58056 |
| GTB-400KRU/KLO ¹⁾ | 58057 |
| GTB-500KRU/KLO ¹⁾ | 58058 |
| GTB-600KRU/KLO ¹⁾ | 58059 |
| GTB-700KRU/KLO ¹⁾ | 58060 |
| GTB-800KRU/KLO ¹⁾ | 58061 |



- ¹⁾ KRU End drive bottom right
 KLO End drive top left

| GTB-KRO/KLU drive unit | Ref. No. |
|------------------------------|----------|
| GTB-200KRO/KLU ²⁾ | 58062 |
| GTB-300KRO/KLU ²⁾ | 58063 |
| GTB-400KRO/KLU ²⁾ | 58064 |
| GTB-500KRO/KLU ²⁾ | 58065 |
| GTB-600KRO/KLU ²⁾ | 58066 |
| GTB-700KRO/KLU ²⁾ | 58067 |
| GTB-800KRO/KLU ²⁾ | 58068 |



- ²⁾ KRO End drive top right
 KLU End drive bottom left

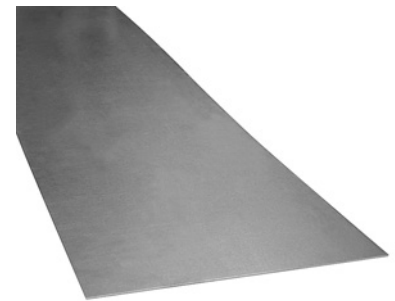
MAX CONVEYORS WITH END DRIVE GTB-K - COMPONENTS

| GTB profile lateral | Ref. No. |
|---------------------|------------|
| GTB-200 | 49405/...* |



| GTB sliding plate sendzimir galvanised | Ref. No. |
|--|-----------------|
| GTB-200 B=173 L=...* | 54869/0173/...* |
| GTB-300 B=273 L=...* | 54869/0273/...* |
| GTB-400 B=373 L=...* | 54869/0373/...* |
| GTB-500 B=473 L=...* | 54869/0473/...* |
| GTB-600 B=573 L=...* | 54869/0573/...* |
| GTB-700 B=673 L=...* | 54869/0673/...* |
| GTB-800 B=773 L=...* | 54869/0773/...* |

| GTB sliding plate stainless | Ref. No. |
|-----------------------------|-----------------|
| GTB-200 B=173 L=...* | 54868/0173/...* |
| GTB-300 B=273 L=...* | 54868/0273/...* |
| GTB-400 B=373 L=...* | 54868/0373/...* |
| GTB-500 B=473 L=...* | 54868/0473/...* |
| GTB-600 B=573 L=...* | 54868/0573/...* |
| GTB-700 B=673 L=...* | 54868/0673/...* |
| GTB-800 B=773 L=...* | 54868/0773/...* |



* customer-specific in mm, max. 3000 mm (see page 15)

| GTB connecting support* | Ref. No. |
|-------------------------|----------|
| GTB-200 | 49585 |
| GTB-300 | 49586 |
| GTB-400 | 49587 |
| GTB-500 | 49588 |
| GTB-600 | 49589 |
| GTB-700 | 49590 |
| GTB-800 | 49591 |



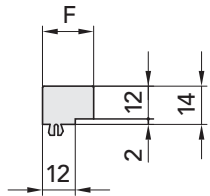
* at least two pieces

COMPLETE YOUR MAX CONVEYOR WITH THIS COMPONENTS:

| | Belt | Motor | Sprocket set | End |
|-----------|------------|-----------------|---------------|--------------------|
| Ref. No.. | | | | |
| | Drive unit | Profile lateral | Sliding plate | Connecting support |
| Ref. No.. | | | | |

MAX CONVEYORS GTB - ACCESSORIES

Lateral guide fixed L = 2000 mm

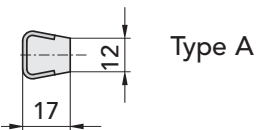


| | Ref. No. | |
|-----------|--------------|--------------------|
| | with | black (antistatic) |
| F = 20.75 | 28186 | 28186S |
| F = 26.75 | 32071 | 32071S |
| F = 35.75 | 28188 | 28188S |

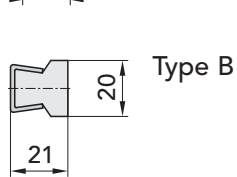
In addition to the standard widths, project-specific lateral guides are also available.



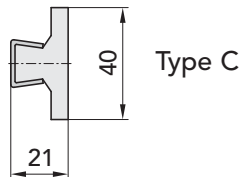
Lateral guide adjustable L = 3000 mm



Type A

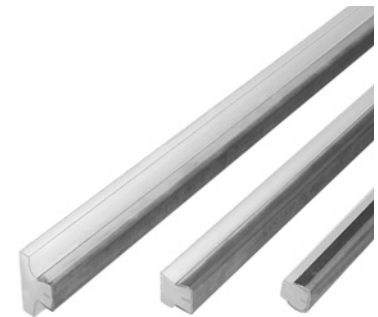


Type B

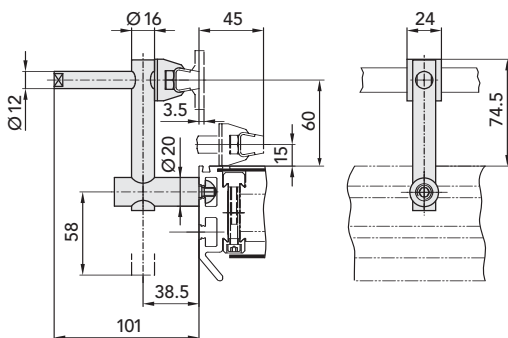


Type C

| | Ref. No. |
|--------|---------------|
| Type A | 504985 |
| Type B | 504986 |
| Type C | 504987 |



Holder for lateral guide, adjustable

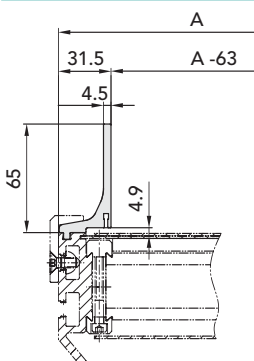


| Ref. No. |
|--------------|
| 50094 |

Special lateral guides on request.



Lateral guide, aluminium L = 2000 mm



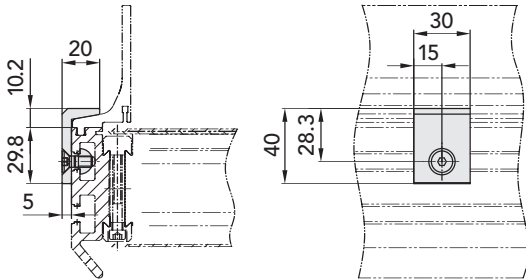
| Ref. No. |
|--------------|
| 55106 |



MAX CONVEYORS GTB - ACCESSORIES

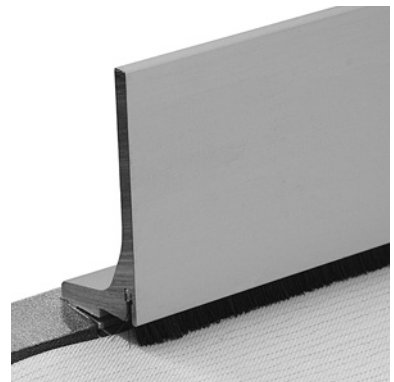
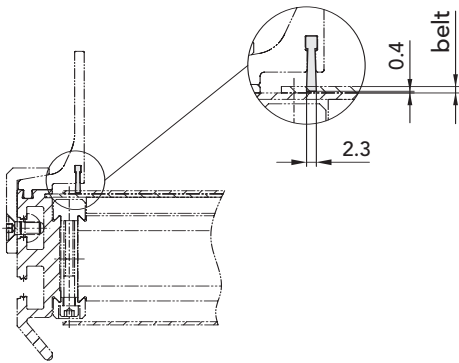
Holder for lateral guide

Ref. No.
54864

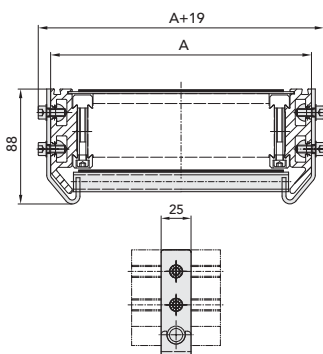


Contact brush for lateral guide L = 2000 mm

Ref. No.
508390



Belt support



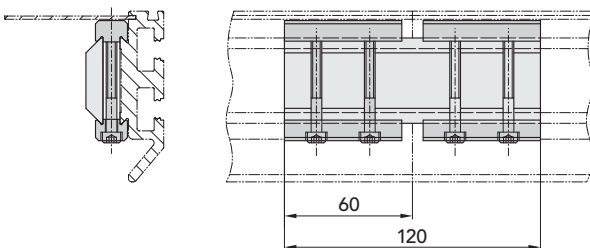
| | A [mm] | Ref. No. |
|---------|--------|--------------|
| GTB-200 | 200 | 50084 |
| GTB-300 | 300 | 50085 |
| GTB-400 | 400 | 50086 |
| GTB-500 | 500 | 50087 |
| GTB-600 | 600 | 50088 |
| GTB-700 | 700 | 50089 |
| GTB-800 | 800 | 50090 |

(option for long conveyor belts)

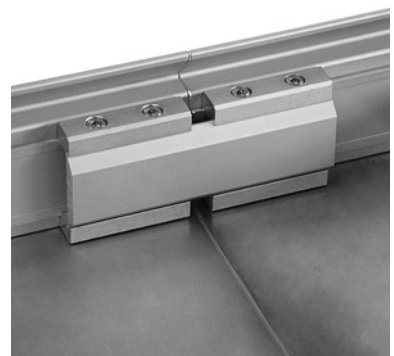


Lateral profile connector

Ref. No.
49597 (pair)



The GTB is shipped in units of max. 3 m length.
A pair of side profile connectors should be provided per joint.



ZUBEHÖR GROSSTRANSPORTBÄNDER

| Bodenständer breit, neigbar $\pm 50^\circ$ | | A [mm] | Artikel Nr. |
|--|---------|--------|-------------------|
| | GTB-200 | 200 | 67020/...* |
| | GTB-300 | 300 | 67074/...* |
| | GTB-400 | 400 | 67075/...* |
| | GTB-500 | 500 | 67076/...* |
| | GTB-600 | 600 | 67077/...* |
| | GTB-700 | 700 | 67078/...* |
| | GTB-800 | 800 | 67079/...* |

* kundenspezifisch in mm
Arbeitshöhe H = 250 – 1500 mm
(Arbeitshöhe H = Gurtoberkante)

unter 250 und über 1500 mm auf Anfrage



| Bodenständer schmal | | A [mm] | Artikel Nr. |
|---------------------|---------|--------|-------------------|
| | GTB-400 | 400 | 67022/...* |
| | GTB-500 | 500 | 67080/...* |
| | GTB-600 | 600 | 67081/...* |
| | GTB-700 | 700 | 67082/...* |
| | GTB-800 | 800 | 67083/...* |

* kundenspezifisch in mm
Arbeitshöhe H = 250 – 1500 mm
(Arbeitshöhe H = Gurtoberkante)

unter 250 und über 1500 mm auf Anfrage



| Bodenständer teleskopisch, neigbar ($\pm 35^\circ$) | | A [mm] | Artikel Nr. |
|---|---------|--------|--------------|
| | GTB-200 | 200 | 67026 |
| | GTB-300 | 300 | 67068 |
| | GTB-400 | 400 | 67069 |
| | GTB-500 | 500 | 67070 |
| | GTB-600 | 600 | 67071 |
| | GTB-700 | 700 | 67072 |
| | GTB-800 | 800 | 67073 |

Arbeitshöhe einstellbar
H = 754 – 1200 mm
(Arbeitshöhe H = Gurtoberkante)

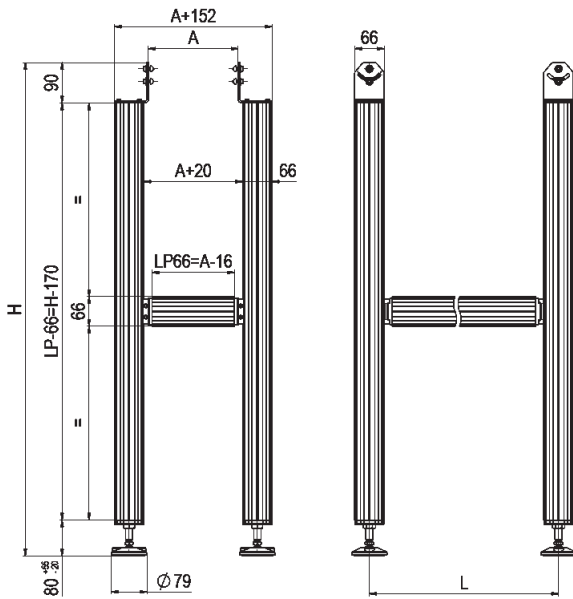
unter 754 und über 1200 mm auf Anfrage



ZUBEHÖR GROSSTRANSPORTBÄNDER

Doppelbodenständer breit

Arbeitshöhe H variabel 250–1500 mm
(unter 250 und über 1500 mm auf Anfrage)
Stützenabstand L variabel 500–2000 mm
(unter 500 und über 2000 mm auf Anfrage)



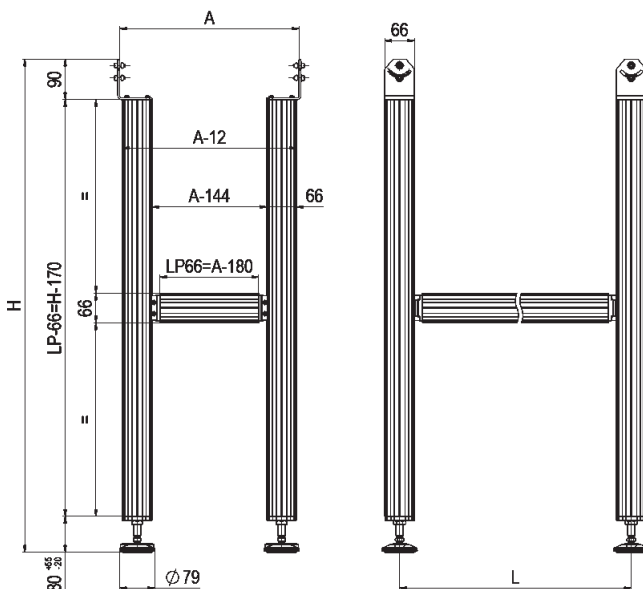
| | A [mm] | Artikel Nr. |
|---------|--------|----------------|
| GTB-200 | 200 | 67136/.../...* |
| GTB-300 | 300 | 67137/.../...* |
| GTB-400 | 400 | 67138/.../...* |
| GTB-500 | 500 | 67139/.../...* |
| GTB-600 | 600 | 67140/.../...* |
| GTB-700 | 700 | 67141/.../...* |
| GTB-800 | 800 | 67142/.../...* |

* kundenspezifisch in mm
z. B. H = 1200 mm, L = 1500
67137/1200/1500
(Arbeitshöhe H
= Gurtoberkante)



Doppelbodenständer schmal

Arbeitshöhe H variabel 250–1500 mm
(unter 250 und über 1500 mm auf Anfrage)
Stützenabstand L variabel 500–2000 mm
(unter 500 und über 2000 mm auf Anfrage)



| | A [mm] | Artikel Nr. |
|---------|--------|----------------|
| GTB-400 | 400 | 67143/.../...* |
| GTB-500 | 500 | 67144/.../...* |
| GTB-600 | 600 | 67145/.../...* |
| GTB-700 | 700 | 67146/.../...* |
| GTB-800 | 800 | 67147/.../...* |

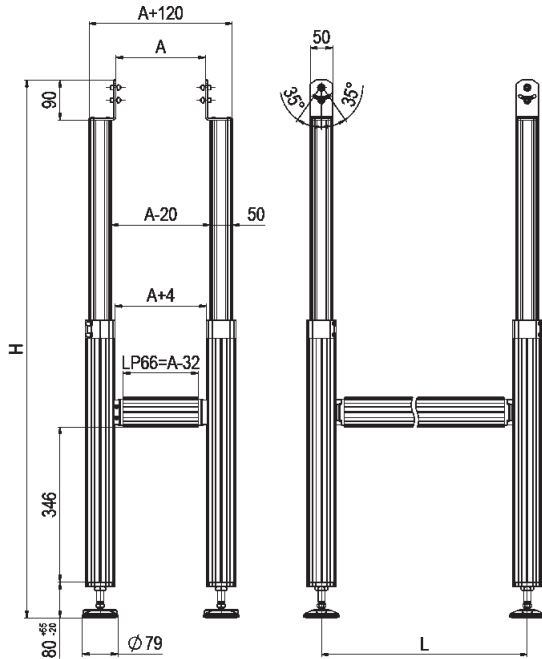
* kundenspezifisch in mm
z. B. H = 1200 mm, L = 1500
67143/1200/1500
(Arbeitshöhe H
= Gurtoberkante)



ZUBEHÖR GROSSTRANSPORTBÄNDER

Doppelbodenständer teleskopisch, neigbar ($\pm 35^\circ$)

Arbeitshöhe H variabel (einstellbar) 754–1200 mm
(unter 754 und über 1200 mm auf Anfrage)
Stützenabstand L variabel 500–2000 mm
(unter 500 und über 2000 mm auf Anfrage)



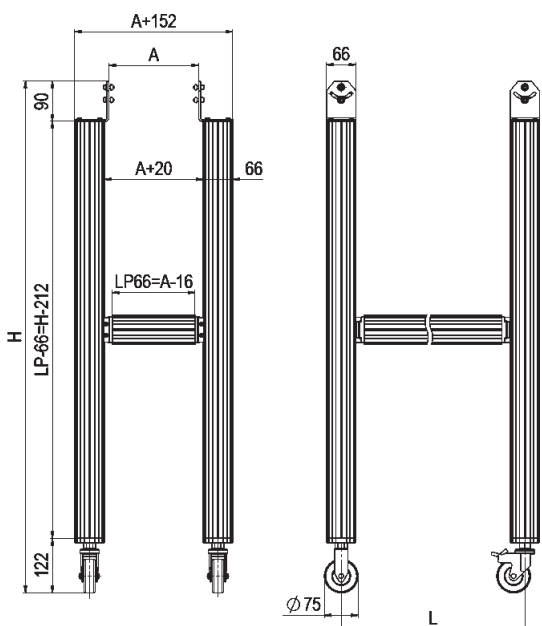
| | A [mm] | Artikel Nr. |
|---------|--------|-------------|
| GTB-200 | 200 | 67148/....* |
| GTB-300 | 300 | 67149/....* |
| GTB-400 | 400 | 67150/....* |
| GTB-500 | 500 | 67151/....* |
| GTB-600 | 600 | 67152/....* |
| GTB-700 | 700 | 67153/....* |
| GTB-800 | 800 | 67154/....* |

* kundenspezifisch in mm
z. B. L = 1500 mm
67149/1500
(Arbeitshöhe H
= Gurtoberkante)



Doppelbodenständer breit, fahrbar

Arbeitshöhe H variabel 290–1200 mm
(unter 290 und über 1200 mm auf Anfrage)
Stützenabstand L variabel 500–2000 mm
(unter 500 und über 2000 mm auf Anfrage)



| | A [mm] | Artikel Nr. |
|---------|--------|------------------|
| GTB-200 | 200 | 67155/..../....* |
| GTB-300 | 300 | 67156/..../....* |
| GTB-400 | 400 | 67157/..../....* |
| GTB-500 | 500 | 67158/..../....* |
| GTB-600 | 600 | 67159/..../....* |
| GTB-700 | 700 | 67160/..../....* |
| GTB-800 | 800 | 67161/..../....* |

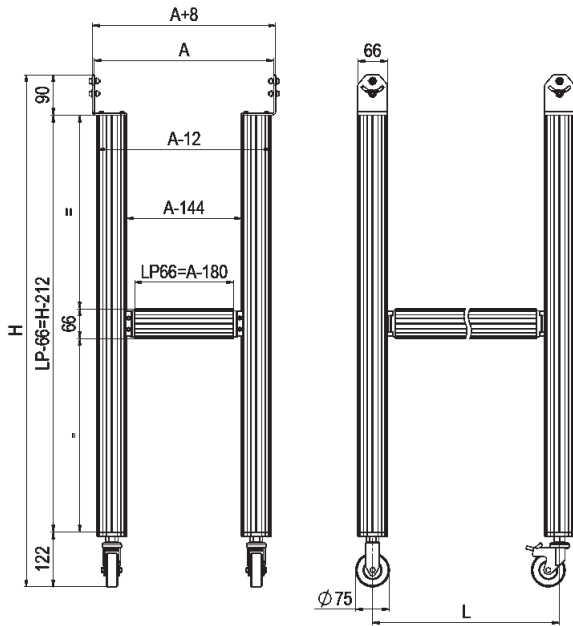
* kundenspezifisch in mm
z. B. H = 1200 mm, L = 1500
67156/1200/1500
(Arbeitshöhe H
= Gurtoberkante)



ZUBEHÖR GROSSTRANSPORTBÄNDER

Doppelbodenständer, schmal, fahrbar

Arbeitshöhe H variabel 290–1200 mm
(unter 290 und über 1200 mm auf Anfrage)
Stützenabstand L variabel 500–2000 mm
(unter 500 und über 2000 mm auf Anfrage)



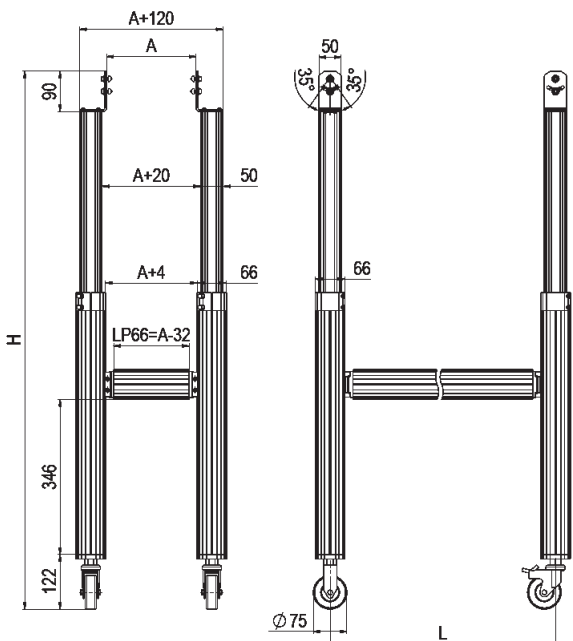
| | A [mm] | Artikel Nr. |
|---------|--------|-----------------------|
| GTB-400 | 400 | 67162/.../...* |
| GTB-500 | 500 | 67163/.../...* |
| GTB-600 | 600 | 67164/.../...* |
| GTB-700 | 700 | 67165/.../...* |
| GTB-800 | 800 | 67166/.../...* |

* kundenspezifisch in mm
z. B. H = 1200 mm, L = 1500 mm
67162/1200/1500
(Arbeitshöhe H
= Gurtoberkante)



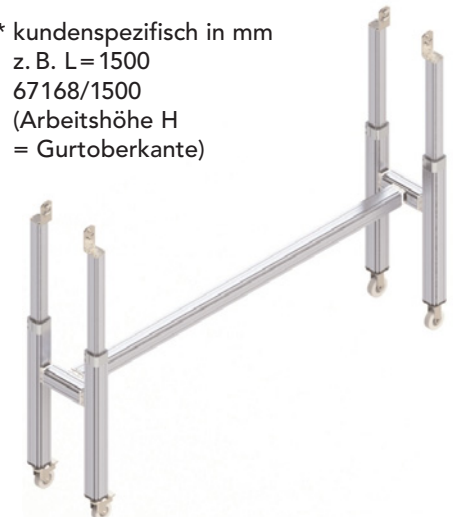
Doppelbodenständer teleskopisch, neigbar ($\pm 35^\circ$), fahrbar

Arbeitshöhe H variabel 796–1200 mm (höhenverstellbar)
(unter 796 und über 1200 mm auf Anfrage)
Stützenabstand L variabel 500–2000 mm
(unter 500 und über 2000 mm auf Anfrage)



| | A [mm] | Artikel Nr. |
|---------|--------|-------------------|
| GTB-200 | 200 | 67167/...* |
| GTB-300 | 300 | 67168/...* |
| GTB-400 | 400 | 67169/...* |
| GTB-500 | 500 | 67170/...* |
| GTB-600 | 600 | 67171/...* |
| GTB-700 | 700 | 67172/...* |
| GTB-800 | 800 | 67173/...* |

* kundenspezifisch in mm
z. B. L = 1500
67168/1500
(Arbeitshöhe H
= Gurtoberkante)



MAX CONVEYORS GTB - ACCESSORIES

Table stand GTB/QS

Ref. No.

49594 (pair)

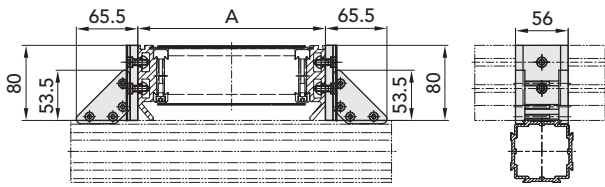
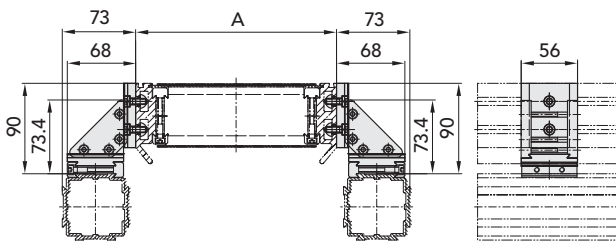


Table stand GTB/QS 90°

Ref. No.

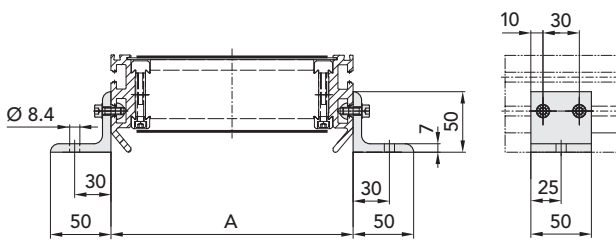
49595 (pair)



Fixing bracket GTB

Ref. No.

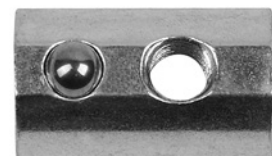
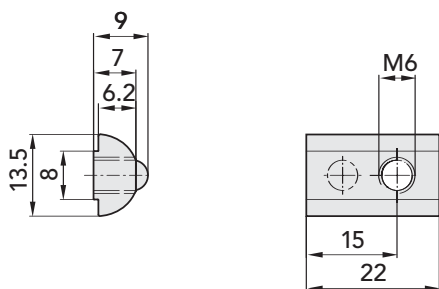
49596 (pair)



T-slot insert nut pivotable M6

Ref. No.

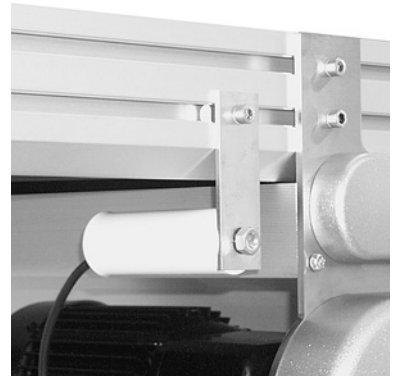
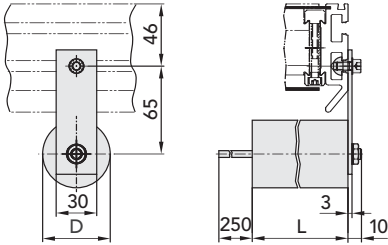
506969



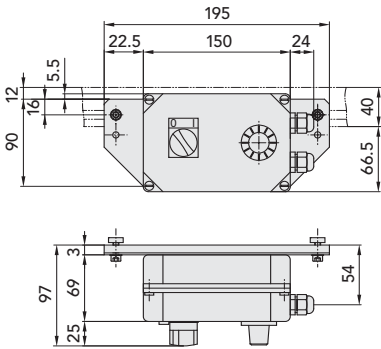
MAX CONVEYORS GTB - ACCESSORIES

| Capacitor on request | μF | D | L | Ref. No. |
|--------------------------|---------------|----|----|---------------|
| 4D71b-4 ¹⁾ | 25 | 50 | 98 | 50171 |
| 4D63b-4 ¹⁾ | 12 | 35 | 98 | 50172 |
| 4D63b4-8 ¹⁾ | 4 | 30 | 62 | 50173 |
| TM60.1 30W ²⁾ | 3 | 25 | 54 | 508329 |
| TM60.1 80W ²⁾ | 6 | 25 | 54 | 508330 |

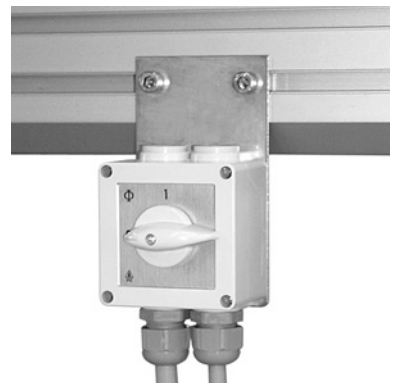
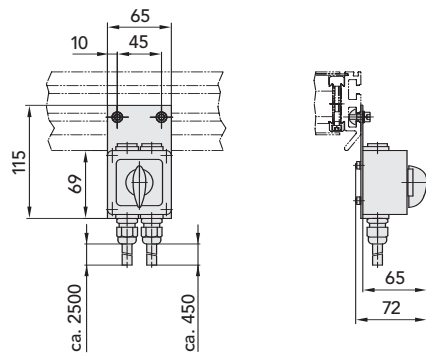
1) for end and center drive
2) for drum drive without holder



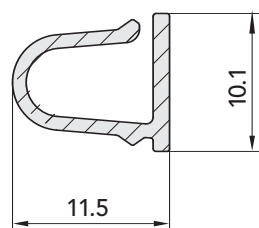
| Frequency converter for a motor capacity up to 370 Watt | Ref. No. |
|---|--------------|
| | 54546 |



| Motor switch with fixing plate | Ref. No. |
|--------------------------------|--------------|
| | 50092 |



| Cover for T-slots | Ref. No. |
|-------------------|--------------|
| per meter | 49505 |





MONTECH AG
Gewerbstrasse 12
CH-4552 Derendingen
Fon +41 32 681 55 00
info@montech.com
www.montech.com