

WERKSTÜCKTRÄGER
FÖRDERER

POSITIONIEREINHEIT
HUB- UND ÜBERGABEEINHEIT

HUB- UND DREHEINHEIT
KURVENEINHEIT

HUBEINHEIT
TRANSPORTSTEUERUNG



VT FÖRDERSY STEM

4.0





01

Produktkatalog

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Werkstückträger- Fördersystem

Das Werkstückträger-Fördersystem ist für den Transport von Werkstückträgern konzipiert und ist ein vielseitiges Modulsystem, das eine breite Palette verschiedener Produkte in wirtschaftlicher Fertigung abdeckt.

Das Fördersystem umfasst verschiedene Förderertypen und modulare Mechanismen, um unterschiedliche Anforderungen der automatisierten Produktion zu erfüllen.

Förderertyp

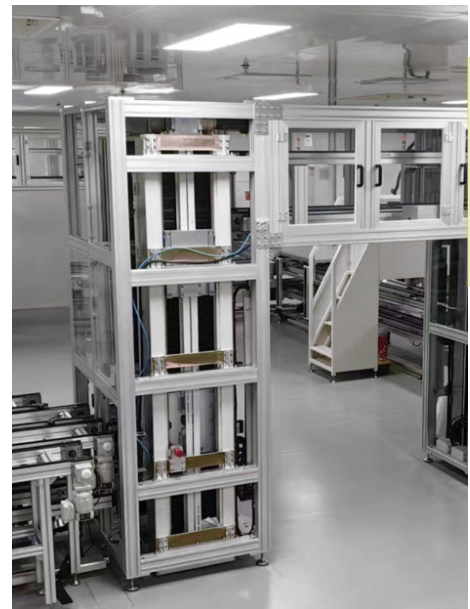
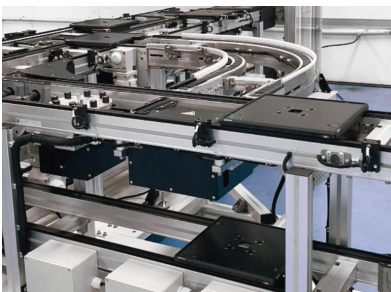
Wählen Sie den geeigneten Förderertyp entsprechend den jeweiligen Produkteigenschaften, Fertigungsprozessen, Taktzeitanforderungen und dem Produktionslinienlayout:

- Flachbandförderer
- Zahnriemenförderer
- Staukettenförderer
- Kunststoffkettenförderer

Modulare Mechanismen

Neben verschiedenen Förderertypen umfasst das Fördersystem folgende modulare Mechanismen:

- Werkstückträger
- Hub- und Positioniereinheit
- Hub- und Übergabeeinheit
- Hub- und Dreheinheit
- Kurveneinheit
- Hubeinheit
- Stopper



Funktionsprinzip

Nach dem Beladen des Werkstücks auf den Werkstückträger transportiert der Förderer den Werkstückträger reibschlüssig von einer Station zur nächsten.

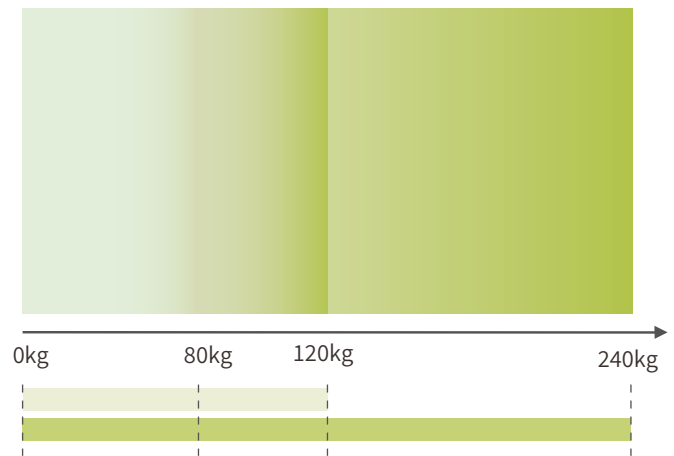
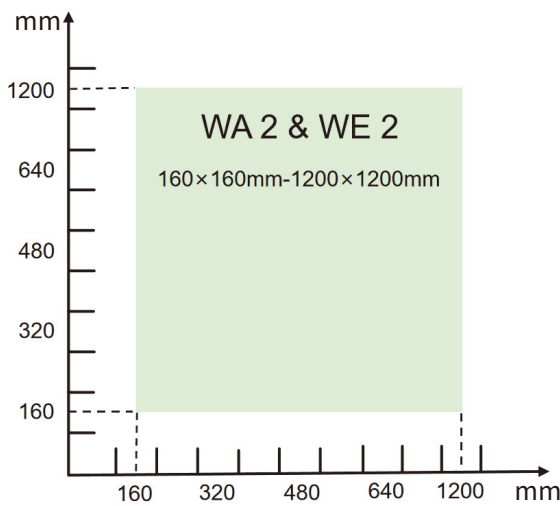
Der Stopper hält den Werkstückträger an der manuellen Arbeits- oder Automatikstation an, während das Fördermedium weiterläuft.

Mehrere Werkstückträger können sich vor einzelnen Stationen anstauen und kleine Puffer bilden.

Sobald ein Bearbeitungsschritt an der Station abgeschlossen ist, wird der Werkstückträger freigegeben und zur nächsten Arbeitsstation weitertransportiert.

Am Ende des Montageprozesses wird das Werkstück vom Werkstückträger entnommen.

1-Werkstückträgergröße und -belastung



Werkstückträger

Der Werkstückträger transportiert das Werkstück von einer Bearbeitungsstation zur nächsten auf dem Transfersystem.

Der Vitrans-Werkstückträger besteht aus Tragplatte und Rahmenmodulen. Die Tragplattendicke und der Rahmenmodultyp werden entsprechend der Werkstückgröße und des Gewichts bestimmt.

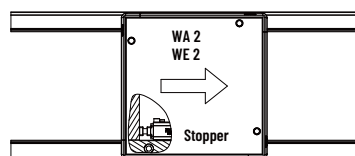
Zulässige Gewichte

Das Gesamtgewicht (Nutzlast) des Werkstückträgers ergibt sich aus:

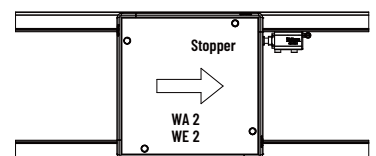
- Werkstückträgermasse
- Werkstückträgerbelastung (Werkstück, Vorrichtung etc.)
- Gewicht der Sonderzubehöreile (RFID-Tag etc.)

Stopper-Einbau

Der Stopper kann in Transportrichtung hinten rechts oder vorne links montiert werden, um den Werkstückträger anzuhalten.



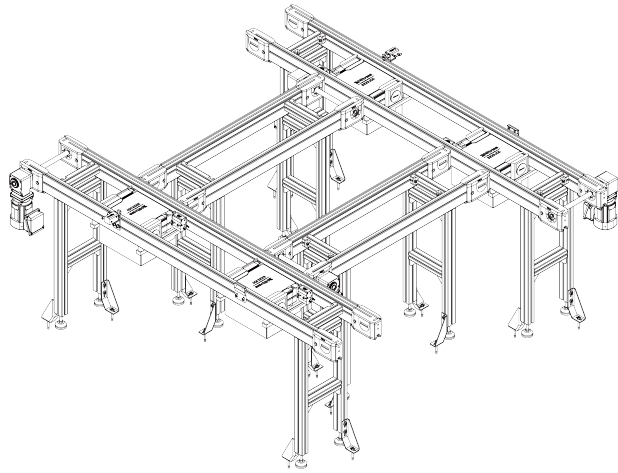
Position vorne links



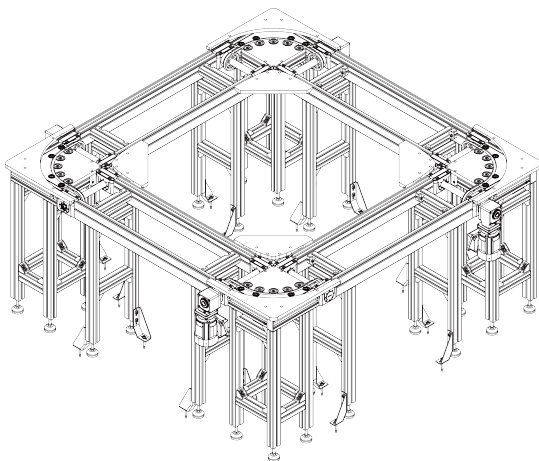
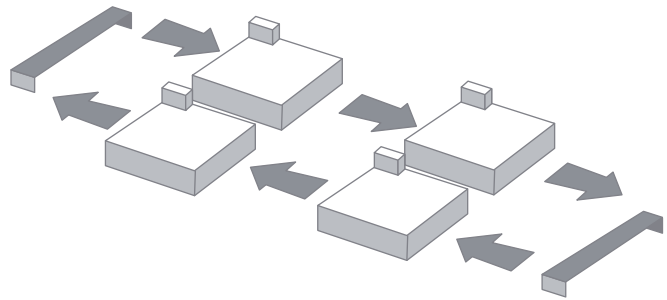
Position hinten rechts

2-Layoutplanung

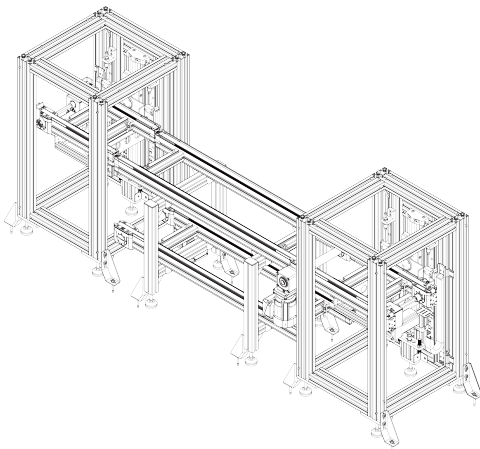
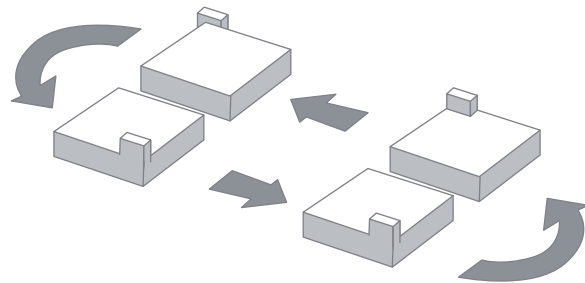
Das Fördersystemlayout wird entsprechend dem Produkttyp, den Taktzeitanforderungen, der Anlagengröße sowie der Qualität und Verteilung der Arbeitsstationen geplant.



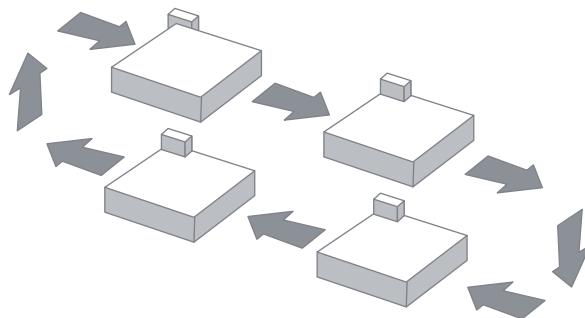
Horizontales Kreislauflayout A

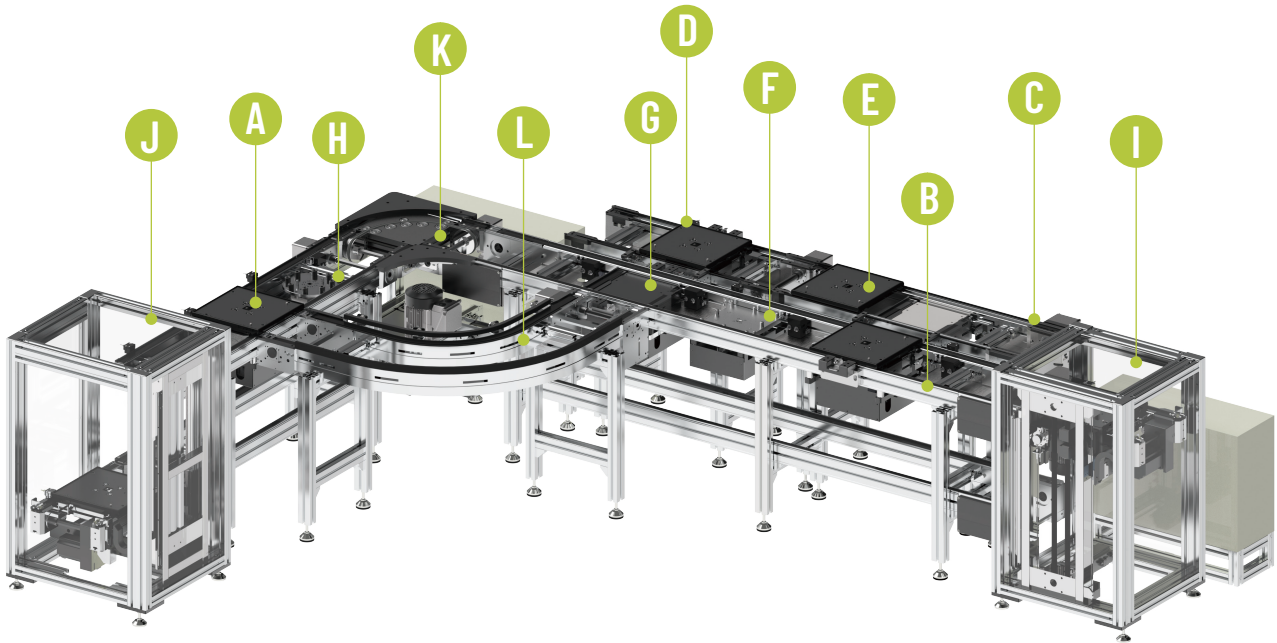


Horizontales Kreislauflayout B

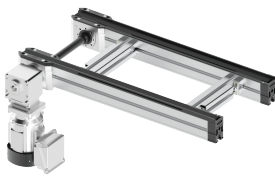


Vertikales Kreislauflayout





A BC2-Förderer



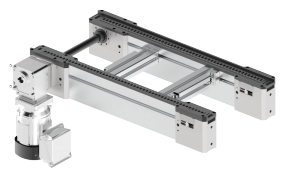
B FC2-Förderer



C AC2-Förderer



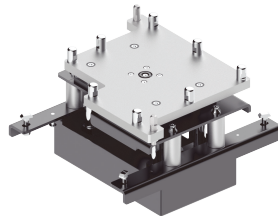
D PC2-Förderer



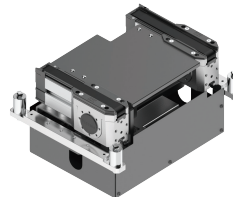
E Werkstückträger



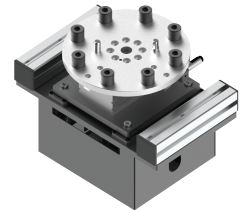
F Hub- und Positioniereinheit



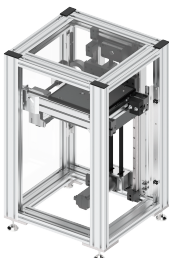
G Hub- und Übergabeeinheit



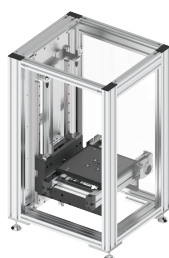
H Hub- und Dreheinheit



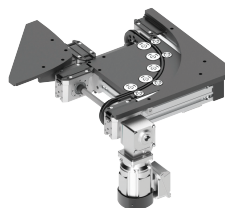
I Riemenhubeinheit



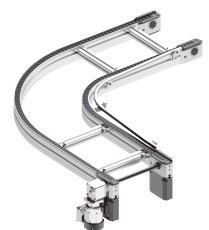
J Pneumatische Hubeinheit



K KV/90-Kurveinheit



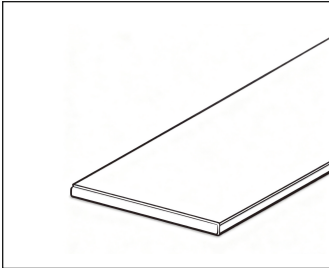
L KV/90-Kurveinheit



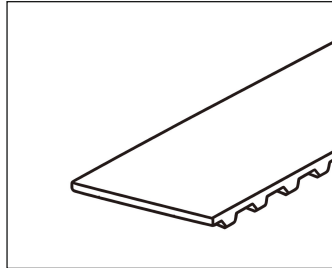
3-Fördermedium

Die Werkstückträgerbelastung wird durch folgende Faktoren bestimmt:

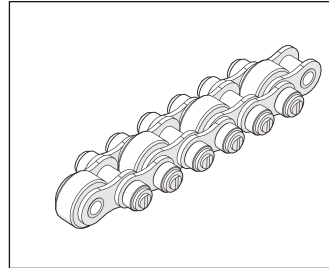
- Kombination aus Fördermedium, Gleitprofilen und Werkstückträger-Rahmentyp.
- Kontaktlänge zwischen Werkstückträger und Fördermedium.



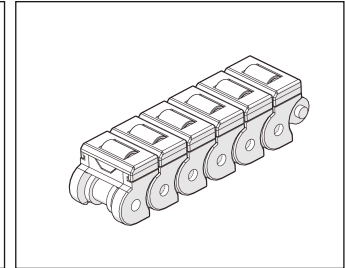
1. Flachriemen



2. Zahnriemen

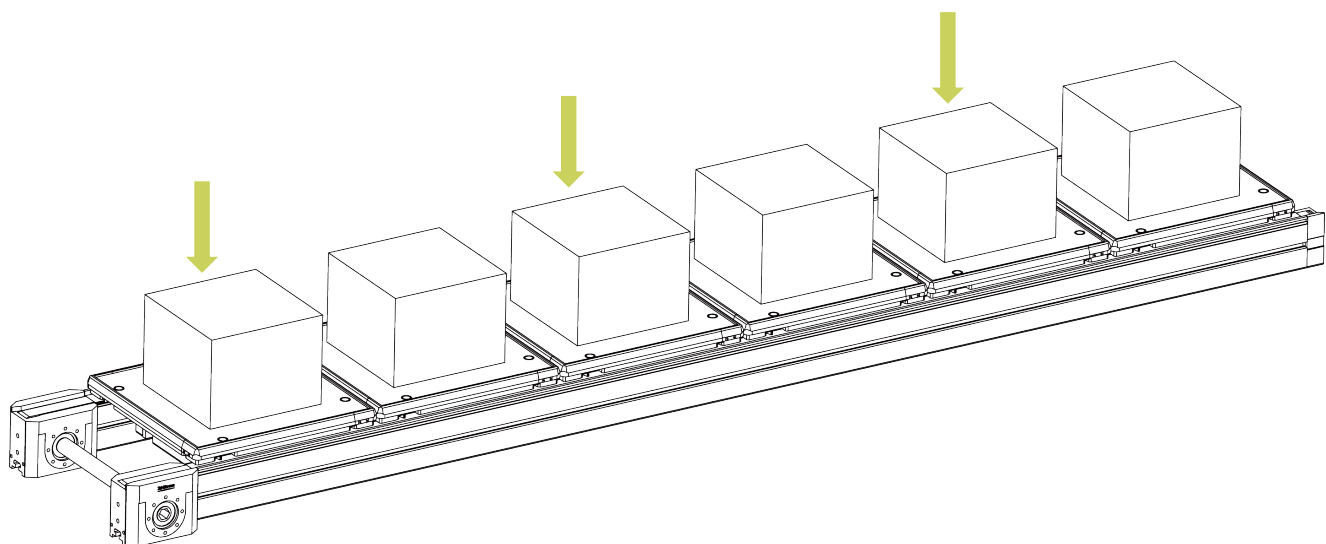


3. Staukette



4. Kunststoffkette

| Flächenlast des Fördermediums | | | Anwendbarer Werkstückträgertyp | Maximale Fördererlast |
|-------------------------------|----------------------------------|--|--------------------------------|---|
| Fördermedium | Flächenlast | | | |
| Flachriemen | 1 kg/cm | | WA2 | Das Gesamtgewicht der aufgestauten Werkstückträger muss unter der maximalen Fördererlast liegen, andernfalls sollte der Förderer als zwei oder mehrere Förderer ausgelegt werden. |
| Zahnriemen | 1 kg/cm | | WA2 | |
| Staukette | 1.5 kg/cm(Plastic glide profile) | | WE2 | |
| | 2 kg/cm(Steel glide profile) | | WE2 | |
| Kunststoffkette | 0.5 kg/cm | | WE2 | |



4- Umgebungsbedingungen



Klima

Die Fördersysteme sind für den stationären Einsatz an einem witterungsgeschützten Standort ausgelegt.

Betriebstemperatur

+5 to +40°C

Über +40°C oder unter +5°C, reduzierte Belastung

Lagertemperatur

0°C to +35°C

Relative Luftfeuchtigkeit

5% to 85%, nicht kondensierend

1% to 2%, Trockenraum

Biologisch

Schimmel, Pilze, Nagetiere und anderes Ungeziefer vermeiden.

Chemisch

Nicht in der Nähe von Industrieanlagen mit chemischen Emissionen aufstellen.

Physikalisch

Nicht in der Nähe von Späne-, Sand- oder Staubquellen aufstellen.

Nicht in Bereichen aufstellen, die regelmäßig durch starke Erschütterungen belastet werden, z. B. durch Pressen, schwere Maschinen etc.

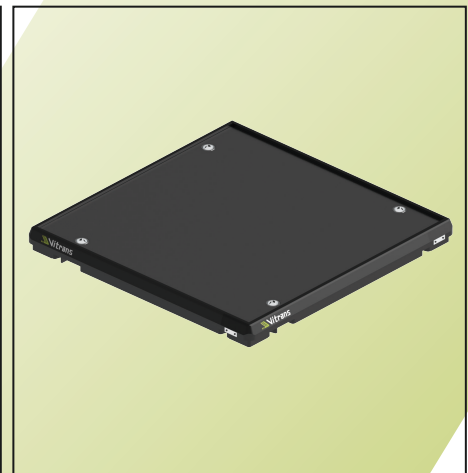
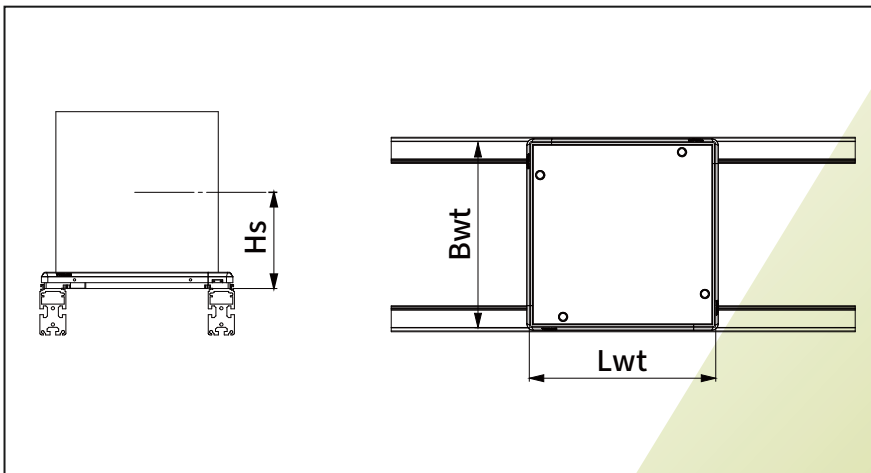
02

Werkstückträger

Der Werkstückträger wird im Fördersystem eingesetzt, um das Werkstück durch die Bearbeitungsstationen zu transportieren.

WA2—Werkstückträger

WE2—Werkstückträger



Werkstückträger und Fördermedium:

WA2-Werkstückträger, Rahmenmodul mit PA-Verschleißleiste, geeignet für Flachriemen, Zahnriemen und Plattenband.
WE2-Werkstückträger, Rahmenmodul mit PE-Verschleißleiste, geeignet für Staukette und Kunststoffkette.

Vorteile:

Modulare Rahmenkonstruktion, die mit der Tragplatte kombiniert werden kann, um Werkstückträger in verschiedenen Größen zu erstellen.

Der Stopper kann den Werkstückträger an der Innenkante oder Außenkante stoppen.

Positionierbuchsen und Führungsnut können zur präzisen und groben Positionierung verwendet werden.

Unter- und seitliche Anregungsplatte können zur Näherungssensor-Erkennung verwendet werden.

Platz für die RFID-Tag-Montage innerhalb des Rahmenmoduls und auf der Oberseite der Tragplatte vorgesehen.

Werkstückträger-Auswahl:

Rahmenmodultyp entsprechend dem Fördermedium wählen.

Tragplattengröße und -dicke entsprechend der Werkstückgröße und des Gewichts wählen.



Hinweis:

Der Werkstückträgertyp muss zum Fördermedium passen.

- Flachriemen, Zahnriemen, Plattenband: Es wird empfohlen, den WA-Werkstückträger mit PA-Verschleißleiste zu verwenden.
- Staukette, Kunststoffkette: Es wird empfohlen, den WE-Werkstückträger mit PE-Verschleißleiste zu verwenden.

Die Werkstückträgerbelastung (Nutzlast) wird durch den Rahmenmodultyp und die Kontaktlänge zwischen Werkstückträger und Fördermedium bestimmt.

Beim Anhalten des Werkstückträgers oder bei Richtungsänderung ist auf die Schwerpunktlage der Beladung auf dem Werkstückträger zu achten, um sicherzustellen, dass die Beschleunigungskräfte ohne Beeinträchtigungen aufgenommen werden können.

Grundsätzlich empfehlen wir:

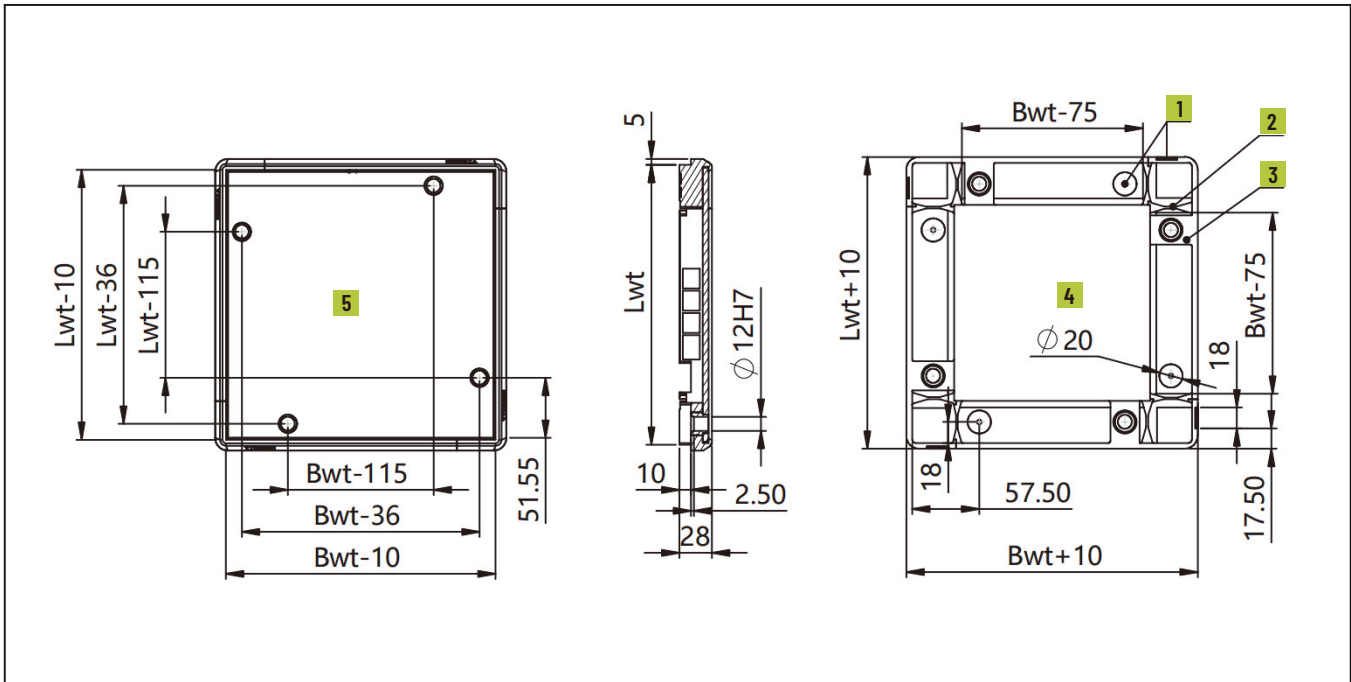
- Die Last sollte mittig auf dem Werkstückträger positioniert werden.
- Der Schwerpunkt sollte eine Höhe von $1/2$ Bwt (bei $Bwt \leq Lwt$) nicht überschreiten.

Bei nicht quadratischen Werkstückträgern ist zu beachten, dass das zulässige Gesamtgewicht für Längs- und Querförderer unterschiedlich sein kann und die kürzere Seite maßgebend für die maximale Belastung ist.

Das zulässige Gesamtgewicht des Werkstückträgers wird durch die Kombination aus Werkstückträger-Rahmenmodultyp, Fördermedium, Gleitprofiltyp und Kontaktlänge zwischen Werkstückträger und Fördermedium bestimmt.

WA2 Werkstückträger

Der Werkstückträger wird im Fördersystem eingesetzt, um das Werkstück durch die Bearbeitungsstationen zu transportieren.



1. Anregungsplatte

2. Führungsnut

3. Stopper-Öffnung

4. Oberer Freiraum

5. Unterer Freiraum

Geeignet für Fördermedien:

Flachriemen, Zahnriemen, Plattenband.

Positionierbuchse ermöglicht hochpräzise Positionierung $\pm 0,05$ mm.

Führungsnut ermöglicht grobe Positionierung $\pm 0,5$ mm.

Platz für RFID-Tag-Montage vorgesehen.

PA-Rahmenmodul, Aluminium- oder Stahl-Tragplatte

Aluminium-Tragplattendicke:

5mm/8mm/12mm

42 Standardspezifikationen.

Maximale Belastung bis zu 120 kg.

Anregungsplatten an Unter- und Seitenfläche des Rahmenmoduls zur Erkennung durch Näherungssensoren.

ESD-konform..

Lieferhinweise

Lieferumfang:

Tragplatte 1), Rahmenmodule 2), Positionierbuchsen

Lieferzustand:

Komplett montiert oder als Einzelteile

1) Kundenspezifische Vorrichtungsbefestigungsbohrungen auf der Tragplatte möglich.

2) Bei Trägergrößen über 400 mm x 400 mm müssen zusätzliche Stifte zur Verstärkung eingesetzt werden.

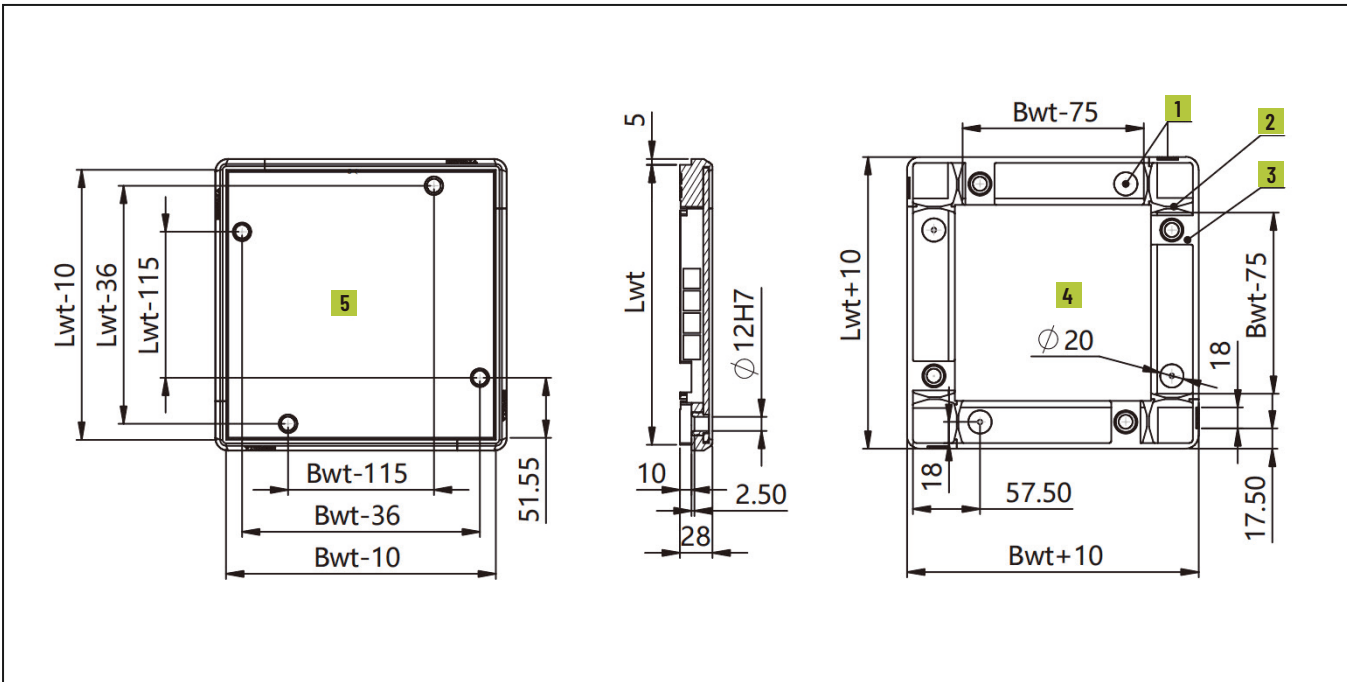
WA2 Werkstückträger-Spezifikation

| Trägerbreite (Bwt) | Trägerlänge (Lwt) | Tragplattendicke (mm) | Ebenheit (mm) | Tragplatten - material | Tragplatten- Oberflächenbehandlung | Tragplattenmasse (Kg) |
|--------------------|-------------------|-----------------------|---------------|------------------------|------------------------------------|-----------------------|
| 160 | 160 | 5 | 0.3 | Aluminium | Schwarz eloxiert | 0.32 |
| 160 | 240 | 5 | 0.3 | | | 0.48 |
| 160 | 320 | 5 | 0.3 | | | 0.65 |
| 240 | 240 | 5 | 0.3 | | | 0.74 |
| 240 | 320 | 5 | 0.5 | | | 0.99 |
| 240 | 400 | 5 | 0.5 | | | 1.24 |
| 320 | 320 | 5 | 0.5 | | | 1.33 |
| 320 | 400 | 5 | 0.5 | | | 1.67 |
| 400 | 400 | 5 | 0.6 | | | 2.10 |
| 240 | 320 | 8 | 0.5 | | | 1.55 |
| 240 | 400 | 8 | 0.5 | | | 1.95 |
| 320 | 320 | 8 | 0.5 | | | 2.06 |
| 320 | 400 | 8 | 0.5 | | | 2.63 |
| 320 | 480 | 8 | 0.5 | | | 3.16 |
| 400 | 400 | 8 | 0.6 | | | 3.31 |
| 400 | 480 | 8 | 0.6 | | | 3.96 |
| 400 | 640 | 8 | 0.8 | | | 5.33 |
| 480 | 480 | 8 | 0.8 | | | 4.79 |
| 480 | 640 | 8 | 0.8 | | | 6.42 |
| 480 | 800 | 8 | 1 | | | 8.05 |
| 640 | 640 | 8 | 0.8 | | | 8.61 |
| 640 | 800 | 8 | 1 | | | 10.79 |
| 800 | 800 | 8 | 1 | | | 13.53 |
| 320 | 480 | 12 | 0.5 | | | 4.71 |
| 400 | 400 | 12 | 0.5 | | | 4.92 |
| 400 | 480 | 12 | 0.6 | | | 5.93 |
| 400 | 640 | 12 | 0.8 | | | 7.95 |
| 480 | 480 | 12 | 0.6 | | | 7.14 |
| 480 | 640 | 12 | 0.8 | | | 9.58 |
| 480 | 800 | 12 | 0.8 | | | 12.01 |
| 640 | 640 | 12 | 1 | | | 12.85 |
| 640 | 800 | 12 | 1 | | | 16.12 |
| 800 | 800 | 12 | 1 | | | 20.22 |
| 640 | 1040 | 12 | 1.2 | 21.28 | | |
| 800 | 1040 | 12 | 1.2 | 26.64 | | |
| 800 | 1200 | 12 | 1.4 | 30.76 | | |
| 1040 | 1040 | 12 | 1.2 | 34.69 | | |
| 1040 | 1200 | 12 | 1.4 | 40.05 | | |
| 1200 | 1200 | 12 | 1.4 | 46.25 | | |

Hinweis: Die Oberflächenbehandlung der Stahl-Tragplatte ist schwarz elektrophoretisch.

WE2 Werkstückträger

Der Werkstückträger wird im Fördersystem eingesetzt, um das Werkstück durch die Bearbeitungsstationen zu transportieren.



1. Anregungsplatte

2. Führungsnut

3. Stopper-Öffnung

4. Oberer Freiraum

5. Unterer Freiraum

Geeignet für Fördermedien:

Flachriemen, Zahnriemen, Plattenband.

Positionierbuchse ermöglicht hochpräzise Positionierung $\pm 0,05$ mm.

Führungsnut ermöglicht grobe Positionierung $\pm 0,5$ mm.

Platz für RFID-Tag-Montage vorgesehen.

PE-Rahmenmodul, Aluminium- oder Stahl-Tragplatte

Aluminium-Tragplattendicke:

5mm/8mm/12mm

42 Standardspezifikationen.

Maximale Belastung bis zu 240 kg.

Anregungsplatten an Unter- und Seitenfläche des Rahmenmoduls zur Erkennung durch Näherungssensoren.

ESD-konform.

Lieferhinweise

Lieferumfang:

Tragplatte 1), Rahmenmodule 2), Positionierbuchsen

Lieferzustand:

Komplett montiert oder als Einzelteile
1) Kundenspezifische Vorrichtungsbefestigungsbohrungen auf der Tragplatte möglich.

2) Bei Trägergrößen über 400 mm x 400 mm müssen zusätzliche Stifte zur Verstärkung eingesetzt werden.

WE2 Werkstückträger-Spezifikation

| Trägerbreite (Bwt) | Trägerlänge (Lwt) | Tragplattendicke (mm) | Ebenheit (mm) | Tragplatten - material | Tragplatten-Oberflächenbehandlung | Tragplattenmasse (Kg) |
|--------------------|-------------------|-----------------------|---------------|------------------------|-----------------------------------|-----------------------|
| 160 | 160 | 5 | 0.3 | Aluminium | Schwarz eloxiert | 0.32 |
| 160 | 240 | 5 | 0.3 | | | 0.48 |
| 160 | 320 | 5 | 0.3 | | | 0.65 |
| 240 | 240 | 5 | 0.3 | | | 0.74 |
| 240 | 320 | 5 | 0.5 | | | 0.99 |
| 240 | 400 | 5 | 0.5 | | | 1.24 |
| 320 | 320 | 5 | 0.5 | | | 1.33 |
| 320 | 400 | 5 | 0.5 | | | 1.67 |
| 400 | 400 | 5 | 0.6 | | | 2.10 |
| 240 | 320 | 8 | 0.5 | | | 1.55 |
| 240 | 400 | 8 | 0.5 | | | 1.95 |
| 320 | 320 | 8 | 0.5 | | | 2.06 |
| 320 | 400 | 8 | 0.5 | | | 2.63 |
| 320 | 480 | 8 | 0.5 | | | 3.16 |
| 400 | 400 | 8 | 0.6 | | | 3.31 |
| 400 | 480 | 8 | 0.6 | | | 3.96 |
| 400 | 640 | 8 | 0.8 | | | 5.33 |
| 480 | 480 | 8 | 0.8 | | | 4.79 |
| 480 | 640 | 8 | 0.8 | | | 6.42 |
| 480 | 800 | 8 | 1 | | | 8.05 |
| 640 | 640 | 8 | 0.8 | | | 8.61 |
| 640 | 800 | 8 | 1 | | | 10.79 |
| 800 | 800 | 8 | 1 | | | 13.53 |
| 320 | 480 | 12 | 0.5 | | | 4.71 |
| 400 | 400 | 12 | 0.5 | | | 4.92 |
| 400 | 480 | 12 | 0.6 | | | 5.93 |
| 400 | 640 | 12 | 0.8 | | | 7.95 |
| 480 | 480 | 12 | 0.6 | | | 7.14 |
| 480 | 640 | 12 | 0.8 | | | 9.58 |
| 480 | 800 | 12 | 0.8 | | | 12.01 |
| 640 | 640 | 12 | 1 | | | 12.85 |
| 640 | 800 | 12 | 1 | | | 16.12 |
| 800 | 800 | 12 | 1 | 20.22 | | |
| 640 | 1040 | 12 | 1.2 | 21.28 | | |
| 800 | 1040 | 12 | 1.2 | 26.64 | | |
| 800 | 1200 | 12 | 1.4 | 30.76 | | |
| 1040 | 1040 | 12 | 1.2 | 34.69 | | |
| 1040 | 1200 | 12 | 1.4 | 40.05 | | |
| 1200 | 1200 | 12 | 1.4 | 46.25 | | |

Hinweis: Die Oberflächenbehandlung der Stahl-Tragplatte ist schwarz elektrophoretisch.

Bestellinformationen

| | |
|----------------------------|--|
| WA2 | Werkstückträgertyp: WA2 WE2 |
| B <input type="checkbox"/> | Werkstückträgerbreite: 160 / 240 / 320 / 400 / 480 / 560 / 640 / 800 / 1040 / 1200 |
| L <input type="checkbox"/> | Werkstückträgerlänge: 160 / 240 / 320 / 400 / 480 / 560 / 640 / 800 / 1040 / 1200 |
| T <input type="checkbox"/> | Tragplattendicke: T5 / T8 / T12 |
| <input type="checkbox"/> | Tragplattenmaterial: AL(aluminum) (default) / CS(carbon steel) / N(without carrying plate) |
| SP | Special requirements: a.Special stress requirement b.Special positioning c.Special surface treatment d.Special carrying plate material |

Ordering example

WA2—B320—L320—T8—AL

Workpiece pallet type: WA2

Workpiece pallet width: Bwt=320

Workpiece pallet length: Lwt=320

Carrying plate thickness: 8mm

Carrying plate material: AL(aluminum)

Special requirements: None

03

Conveyor

Convey workpiece pallet to work stations.

BC2—Timing belt conveyor

BC2/M—Timing belt conveyor

FC2—Flat belt conveyor

FC2/R—Roller track

AC2—Accumulated chain conveyor

AC2U—Accumulated chain conveyor

AC2L—Accumulated chain conveyor

AC2/H—Accumulated chain conveyor

PC2—Plastic chain conveyor

TG2/H—Lift gate

AC2/R—Connection belt

RH3—Automatic lubricate unit

Conveyor type

BC2 Conveyor

BC2/M Conveyor

Conveyor medium: Timing belt
Permitted maximum load: 60kg
Permitted maximum surface load: 1kg/cm;

FC2 Conveyor

Conveyor medium: Flat belt
Permitted maximum load: 250kg
Permitted maximum surface load: 1kg/cm;

AC2 Conveyor

Conveyor medium: Accumulated chain
Permitted maximum load: 300kg;

AC2U Conveyor

Conveyor medium: Accumulated chain
Permitted maximum load: 300kg;

AC2L Conveyor

Conveyor medium: Accumulated chain
Permitted maximum load: 700kg;

AC2/H Conveyor

Conveyor medium: Accumulated chain
Permitted maximum load: 2200kg;

Permitted maximum surface load of
AC2 series conveyor:
1.5kg/cm(with plastic glide profile)
2kg/cm(with steel glide profile);

PC2 Conveyor

Conveyor medium: Plastic chain
Permitted maximum load: 150kg;

Permitted maximum surface load: 0.5kg/cm.

Advantages:

Modular and standardized design, easy for installation and maintaining.

Conveyor media including timing belt, flat belt, accumulated chain and plastic chain.
Permitted maximum load of workpiece pallet is up to 240kg.

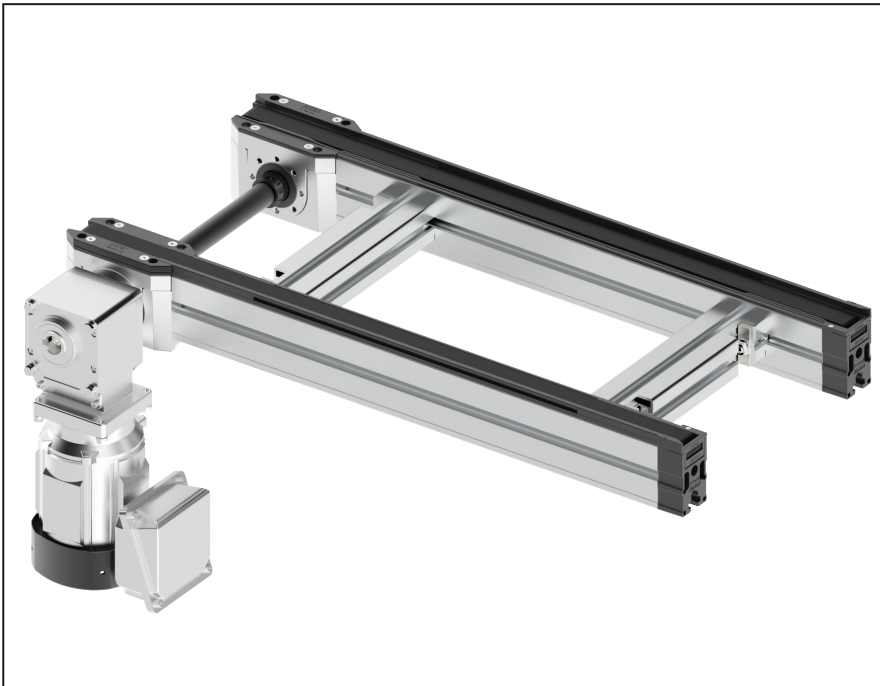
Accumulation is allowed. Diversified production layout can be set up with conveyors, curve unit, lifter and other modular mechanisms.

Suitable for new energy, automotive part, electronics, motor and other industries.

Selection guidelines :

1. Timing belt conveyor: Suitable for light workpiece conveying at short distance within 6 meters under dry and clean environment. Reverse operating is allowed.
2. Flat belt conveyor: Suitable for light workpiece conveying at long distance within 15 meters under dry and clean environment.
3. Plastic chain conveyor: Suitable for light workpiece conveying at short distance within 8 meters under high cleanliness requirement. Plastic chain can reduce dust and grease stain.
4. Accumulated chain conveyor: Suitable for medium workpiece conveying at long distance within 15 meters under relatively poor environment. Reverse operating is allowed while conveyor length is less than 2 meters.
5. Workpiece pallets total weight must be less than conveyor permitted maximum load. Actual surface load must be less than conveyor permitted maximum surface load.
6. Different conveyor types can be used in the same conveyor system.

BC2 Timing belt conveyor



Delivery notes

Scope of delivery:

Conveyor
Motor(with terminal box)

Condition on delivery:

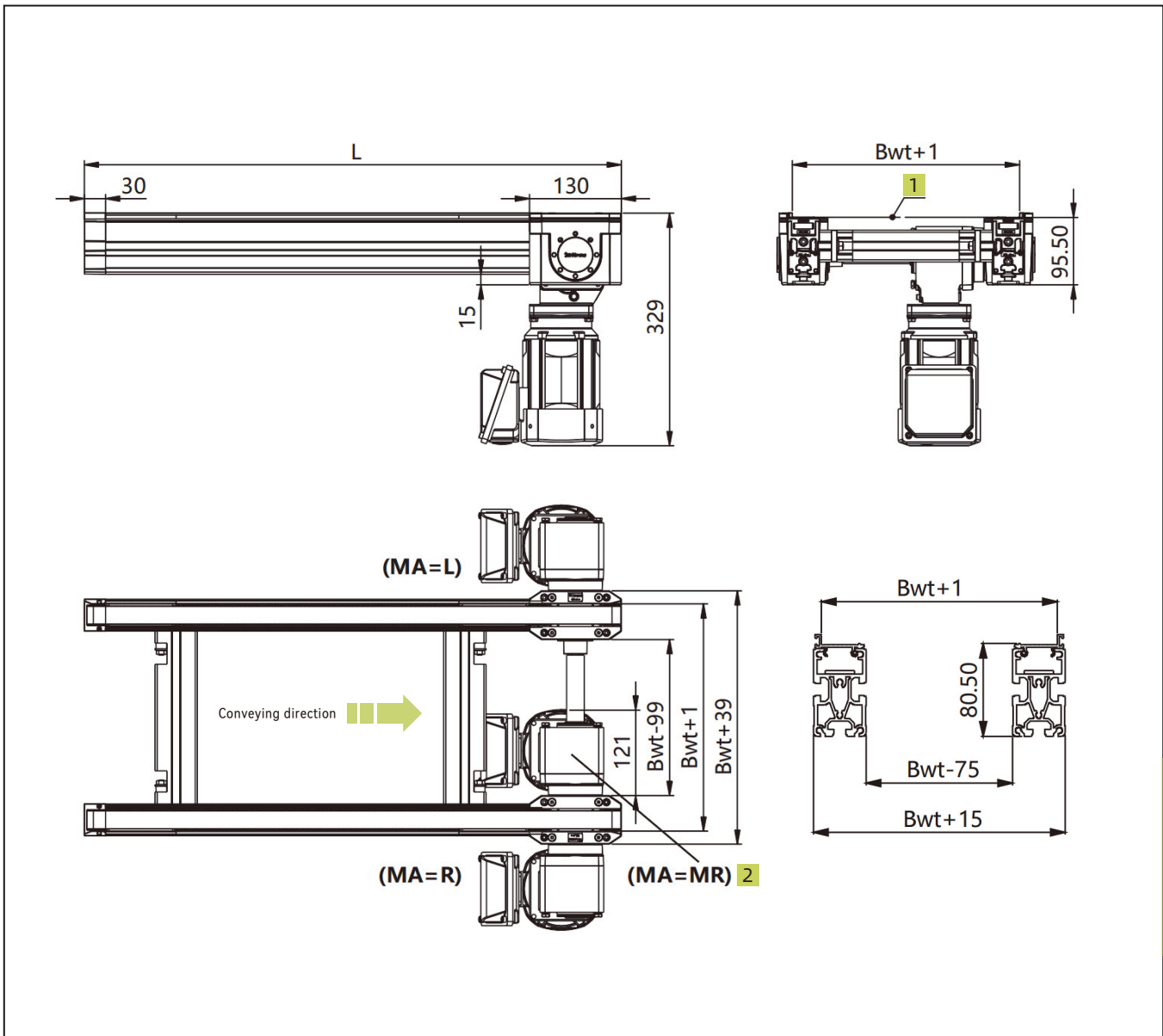
Fully assembled

Recommended accessories:

Connection kit
Conveyor leg(with foundation bracket and bolts)

- ▶ Conveyor medium: Timing belt
 - ▶ Motor: Three phase motor¹,
Motor mounting location and angle has multiple options(Refer to below diagram)
 - ▶ Maximum length: 6 meters
 - ▶ Accumulation operation possible
 - ▶ Reversible operation possible
 - ▶ Compliant with ESD
 - ▶ Support customization
- 1** Support other motor type

BC2 - Dimensions

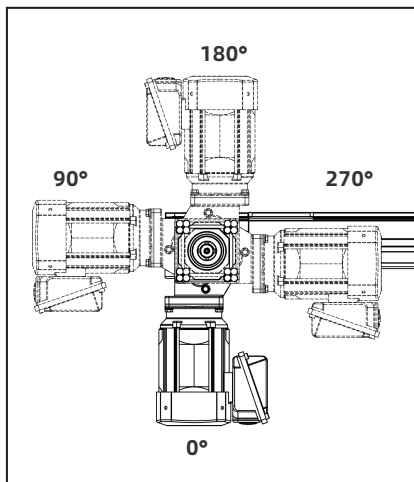


1. Conveyor medium top face

2. For MA=M, please confirm with Vitrans first.

Technical data

| | | |
|--|-----|--|
| Conveyor medium* | | Timing belt |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Conveyor length(mm)* | L | $300 \leq L \leq 6000$ |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Permitted maximum load(kg)* | | 60 |
| Permitted maximum surface load(kg/cm)* | | 1 |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| Motor mounting angle* | | 0°, 90°, 180°, 270° |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |



▲ Motor mounting location diagram

| | |
|-------------------------|---|
| Workpiece pallet width | Support customizatio |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Motor mounting location | MA=M requires conveyor Bwt \geq 240mm. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

Ordering information

| | |
|----------------------------|--|
| BC2 | Conveyor type: BC2 |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 / 800 / 1040 / 1200 |
| L <input type="checkbox"/> | Conveyor length: $300 \leq L \leq 6000$ |
| V <input type="checkbox"/> | Rated speed: 0 1) / 6 / 9 / 12 / 15 / 18 / customized |
| <input type="checkbox"/> | Motor mounting location: L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| A <input type="checkbox"/> | Motor mounting angle: 0 / 90 / 180 / 270 |
| <input type="checkbox"/> | Motor type: ZY02(Default brand) |
| SP | Special requirements: a.Working voltage b.Working frequency c.Terminal box direction d.Motor connection e.Motor mounting location 1) V=0 means no motor |

Ordering example

BC2—B320—L2000—V12—ML—A0—ZY02

Conveyor type: BC2

Workpiece pallet width: Bwt=320

Conveyor length: L=2000

Rated speed: 12m/min

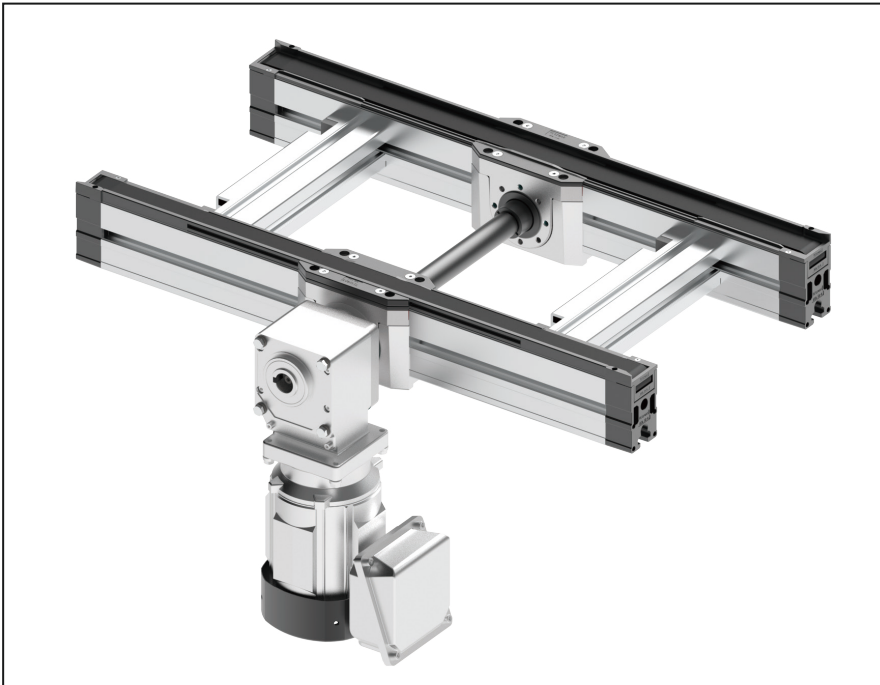
Motor mounting location: ML(Middle-Left)

Motor mounting angle: 0°

Motor type: ZY02

Special requirements: None

BC2/M Timing belt conveyor



Delivery notes

Scope of delivery:

Conveyor
Motor(with terminal box)

Condition on delivery:

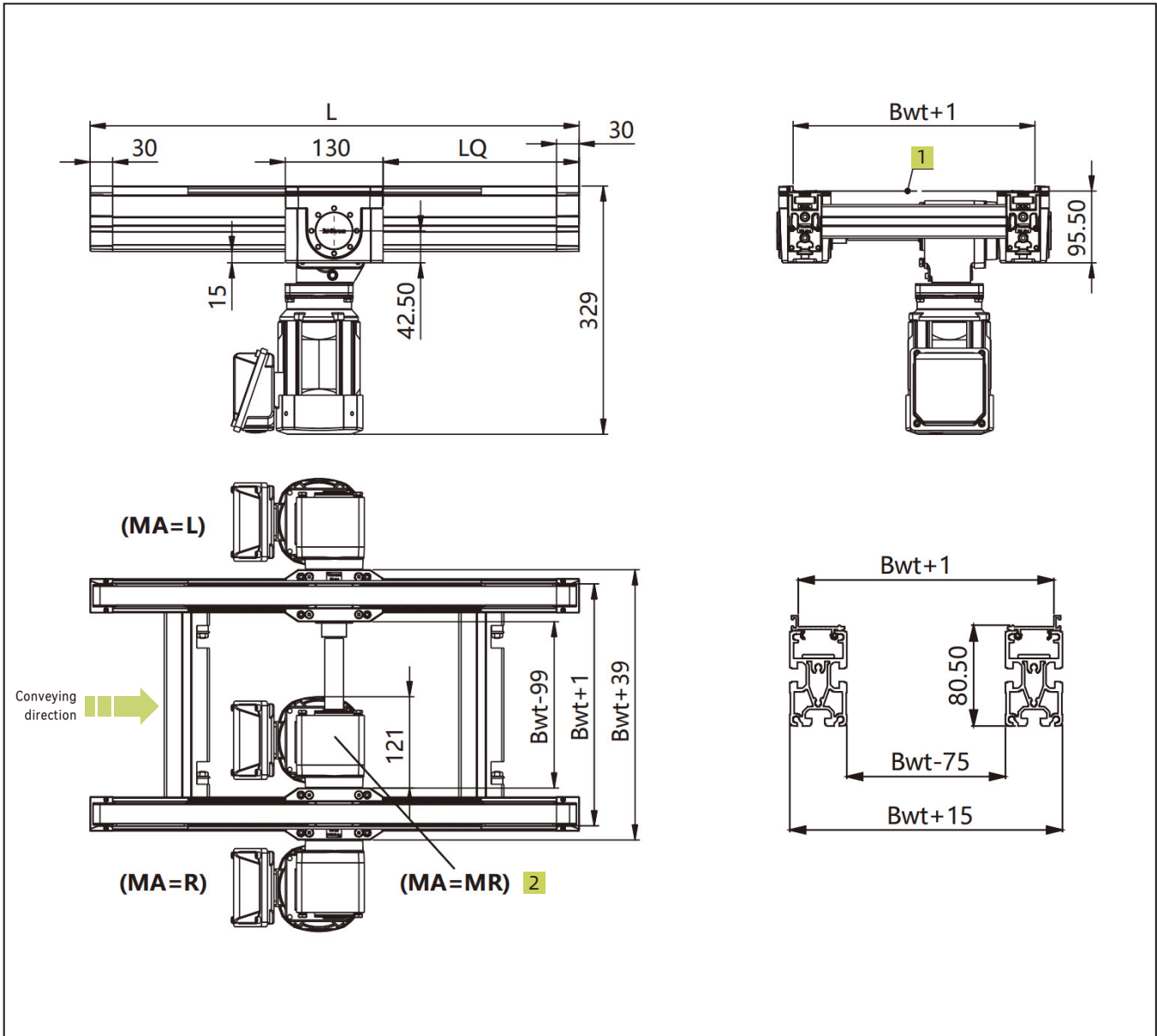
Fully assembled

Recommended accessories:

Connection kit
Conveyor leg(with foundation bracket and bolts)

- ▶ Conveyor medium: Timing belt
- ▶ Motor: Three phase motor¹,
Motor mounting location and angle has multiple options(Refer to below diagram)
- ▶ Accumulation operation possible
- ▶ Reversible operation possible
- ▶ Compliant with ESD
- ▶ Support customization
- 1 Support other motor type

BC2/M - Dimensions

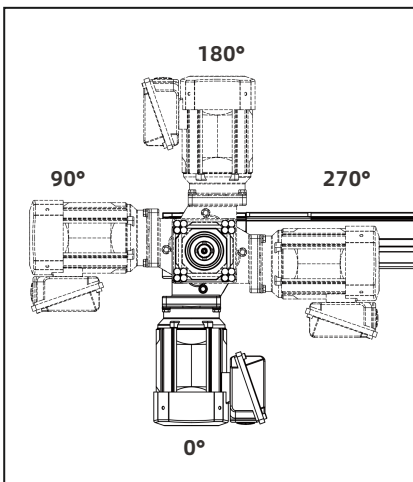


1. Conveyor medium top face

2. For $MA=M$, please confirm with Vitrans first.

Technical data

| | | |
|--|-----|--|
| Conveyor medium* | | Timing belt |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Conveyor length(mm)* | L | $300 \leq L \leq 6000$ |
| Extend length(mm) | LQ | $100 \leq L \leq 5700$ |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Permitted maximum load(kg)* | | 60 |
| Permitted maximum surface load(kg/cm)* | | 1 |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| Motor mounting angle* | | $0^\circ, 90^\circ, 180^\circ, 270^\circ$ |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |



▲ Motor mounting location diagram

| | |
|-------------------------|---|
| Workpiece pallet width | Support customization |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Motor mounting location | MA=M requires conveyor Bwt \geq 240mm. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

Ordering information

| | |
|-----------------------------|---|
| BC2/M | Conveyor type: BC2/M |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 / 800 / 1040 / 1200 |
| L <input type="checkbox"/> | Conveyor length: $300 \leq L \leq 6000$ |
| LQ <input type="checkbox"/> | Conveyor length: $100 \leq L \leq 5700$ |
| V <input type="checkbox"/> | Rated speed: 0 ¹⁾ / 6 / 9 / 12 / 15 / 18 / customized |
| <input type="checkbox"/> | Motor mounting location: L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| A <input type="checkbox"/> | Motor mounting angle: 0 / 90 / 180 / 270 |
| <input type="checkbox"/> | Motor type: ZY02(Default brand) |
| SP | Special requirements: a.Working voltage b.Working frequency c.Terminal box direction d.Motor connection e. Motor mounting location 1) V=0 means no motor |

Ordering example

BC2/M—B320—L2000—LQ1000—V12—L—A0—ZY02

Conveyor type: BC2/M

Workpiece pallet width: Bwt=320

Conveyor length: L=2000

Conveyor length: LQ=1000

Rated speed: 12m/min

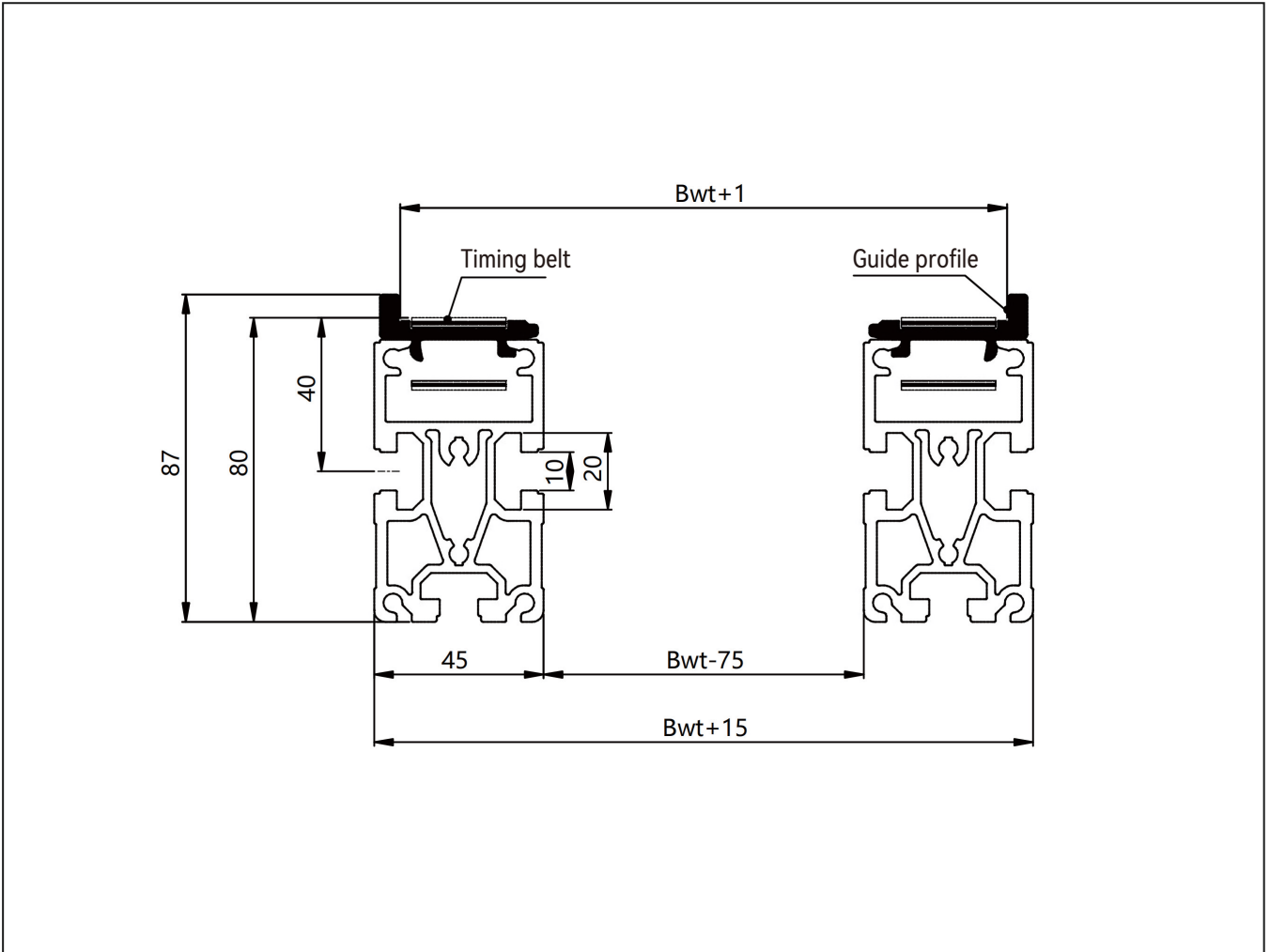
Motor mounting location: L(left)

Motor mounting angle: 0°

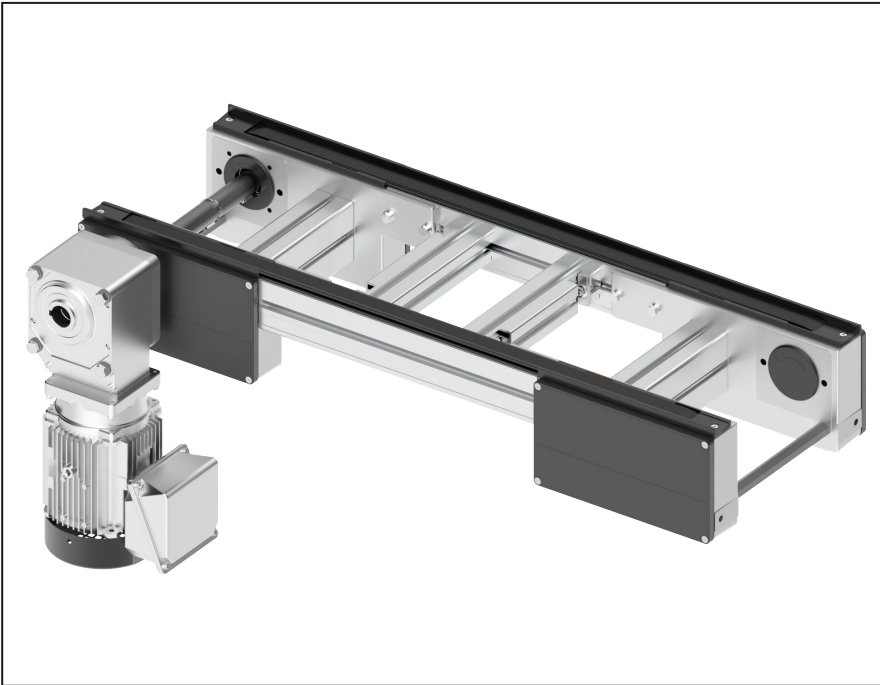
Motor type: ZY02

Special requirements: None

BC2 Conveyor section dimensions



FC2 Flat belt conveyor



Delivery notes

Scope of delivery:

Conveyor

Motor(with terminal box)

Condition on delivery:

Fully assembled

Recommended accessories:

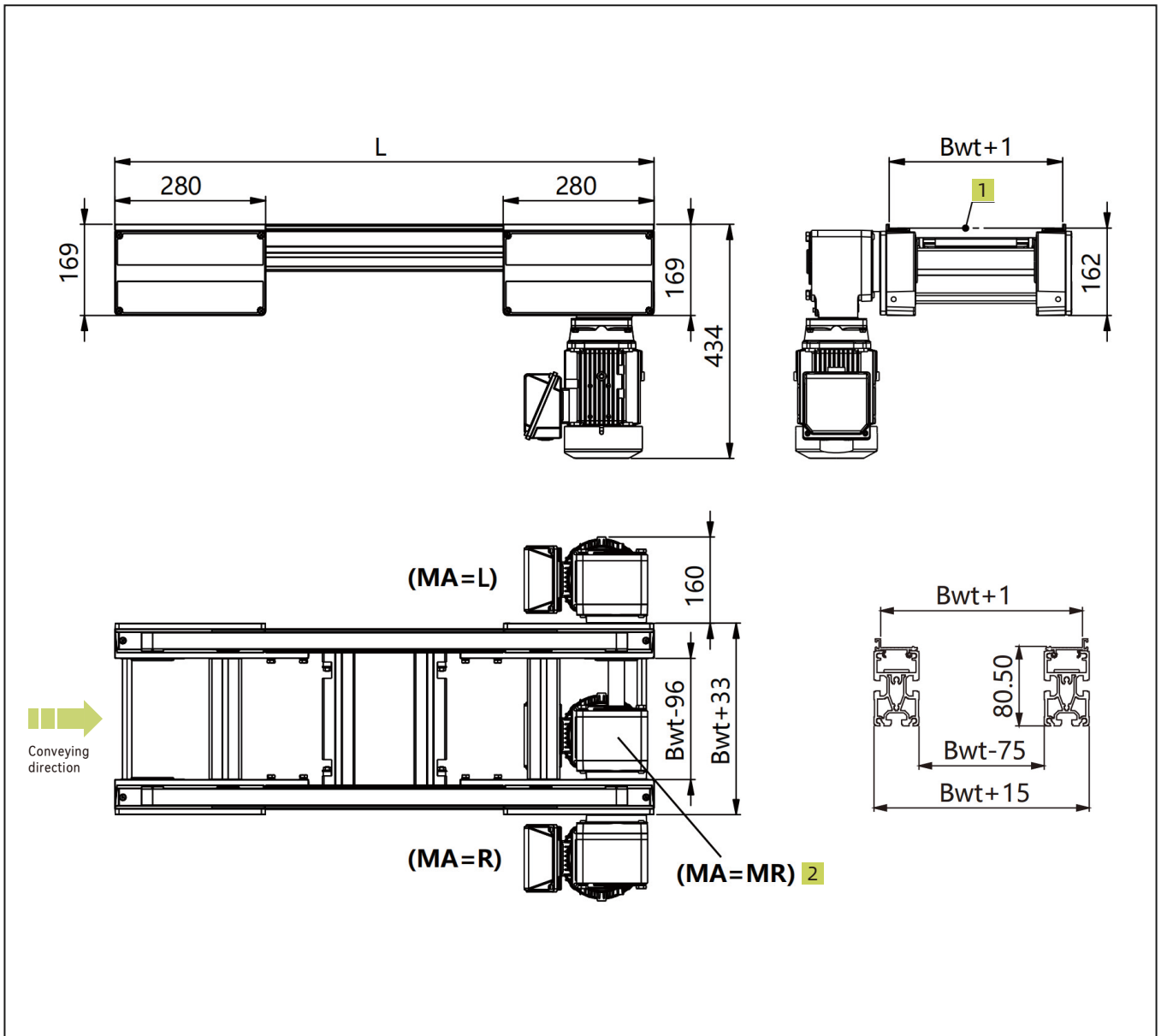
Connection kit

Conveyor leg(with foundation bracket and bolts)

Flat belt installation tool

- ▶ Conveyor medium: Flat belt
 - ▶ Motor: Three phase motor¹,
Motor mounting location and angle has multiple options(Refer to below diagram)
 - ▶ Accumulation operation possible
 - ▶ Reversible operation not possible
 - ▶ Compliant with ESD
 - ▶ Support customization
- 1** Support other motor type

FC2 - Dimensions

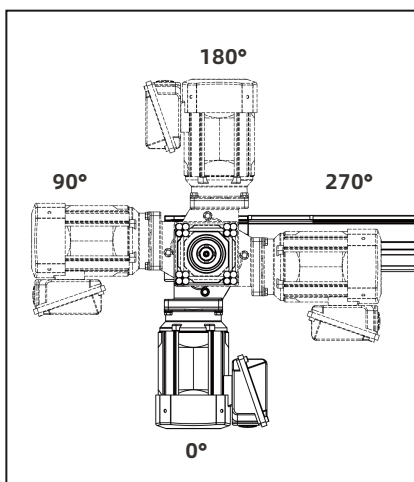


1. Conveyor medium top face

2. For MA=M, please confirm with Vitrans first.

Technical data

| | | |
|--|-----|--|
| Conveyor medium** | | Flat belt |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Conveyor length(mm)* | L | 2000≤L≤15000 |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Permitted maximum load(kg)* | | 250 |
| Permitted maximum surface load(kg/cm)* | | 1 |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| Motor mounting angle* | | 0°,90°,180°,270° |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |



▲ Motor mounting location diagram

| | |
|-------------------------|---|
| Workpiece pallet width | Support customization |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Motor mounting location | MA=M requires conveyor Bwt≥240mm. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

Ordering information

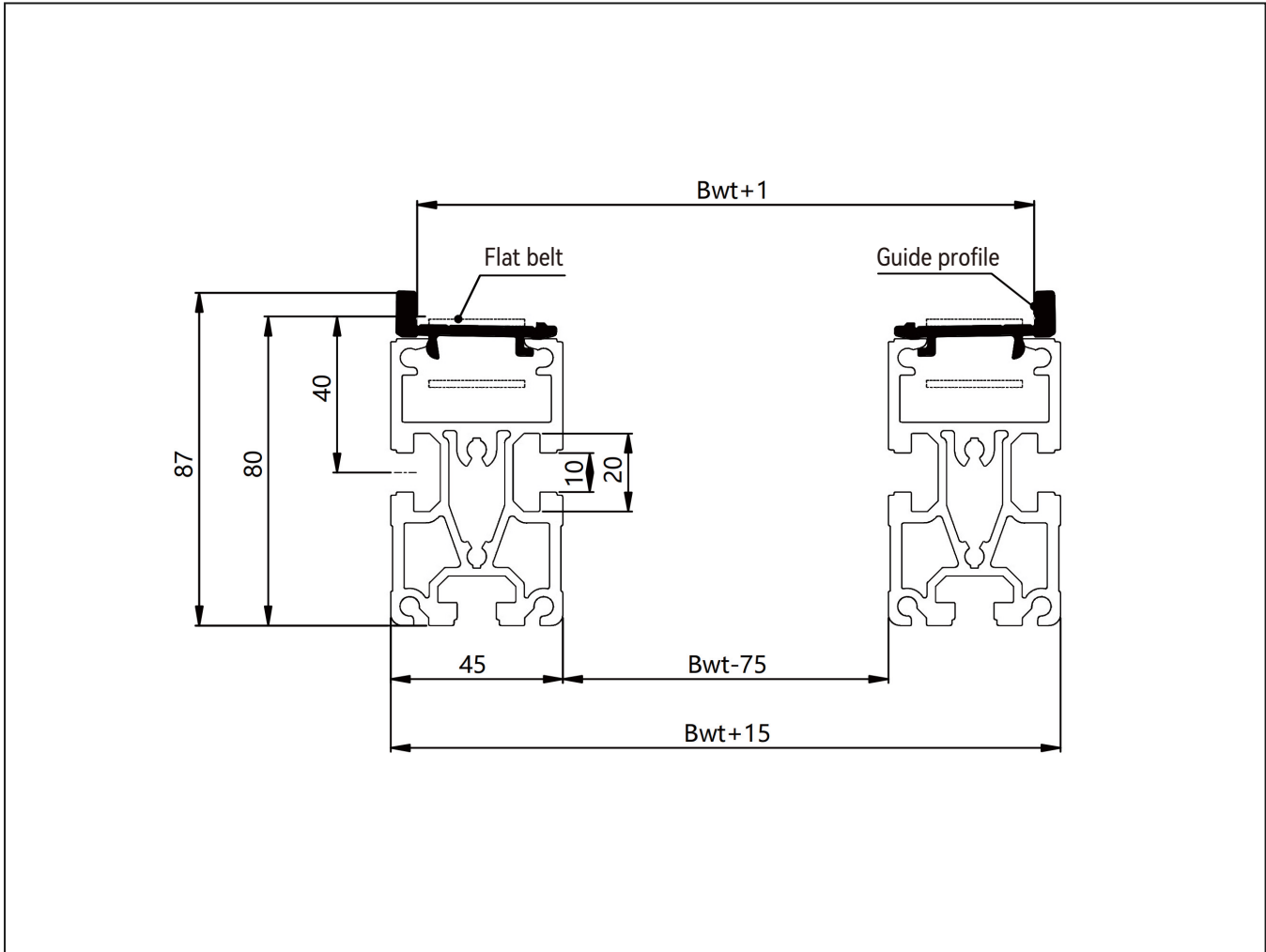
| | |
|----------------------------|--|
| FC2 | Conveyor type: FC2 |
| <input type="checkbox"/> B | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 / 800 / 1040 / 1200 |
| <input type="checkbox"/> L | Conveyor length: $2000 \leq L \leq 15000$ |
| <input type="checkbox"/> V | Rated speed: 0 ¹⁾ / 6 / 9 / 12 / 15 / 18 / customized |
| <input type="checkbox"/> | Motor mounting location: L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| <input type="checkbox"/> A | Motor mounting angle: 0 / 90 / 180 / 270 |
| <input type="checkbox"/> | Motor type: ZY075(Default brand) |
| SP | Special requirements: a.Working voltage b.Working frequency c.Terminal box direction d.Motor connection e.Motor mounting location 1) V=0 means no motor |

Ordering example

FC2—B320—L3000—V12—L—A0—ZY075

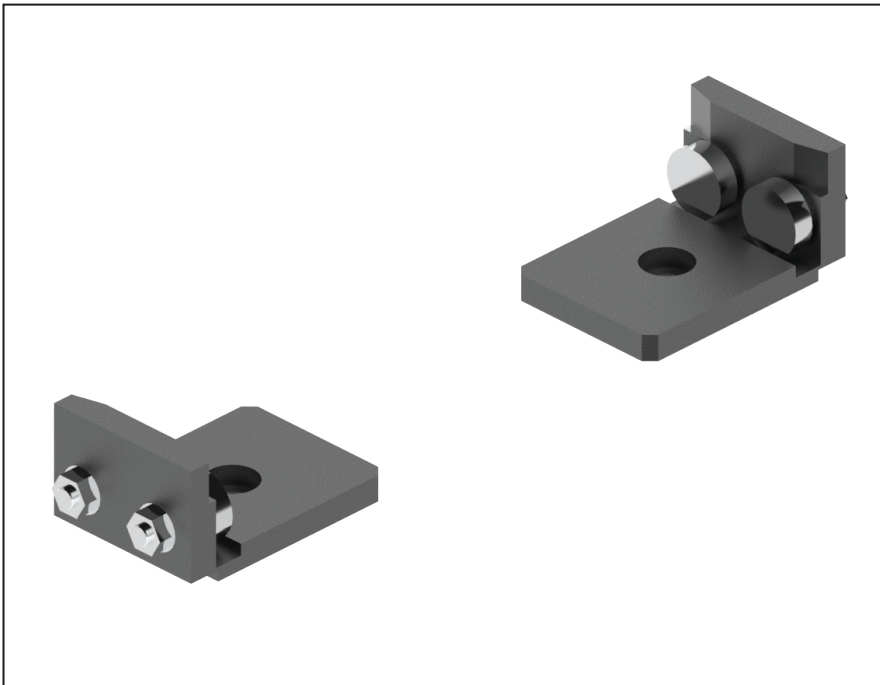
| | | | |
|----------------------------------|---------------------------------|-------------------------|----------------------------|
| Conveyor type: FC2 | Workpiece pallet width: Bwt=320 | Conveyor length: L=3000 | Rated speed: 12m/min |
| Motor mounting location: L(left) | Motor mounting angle: 0° | Motor type: ZY075 | Special requirements: None |

FC2 Conveyor section dimensions



FC2/R Roller track

Additional workpiece pallet support on the transition between drive unit and return unit while workpiece pallet length $L_{wt} < 320$ mm.

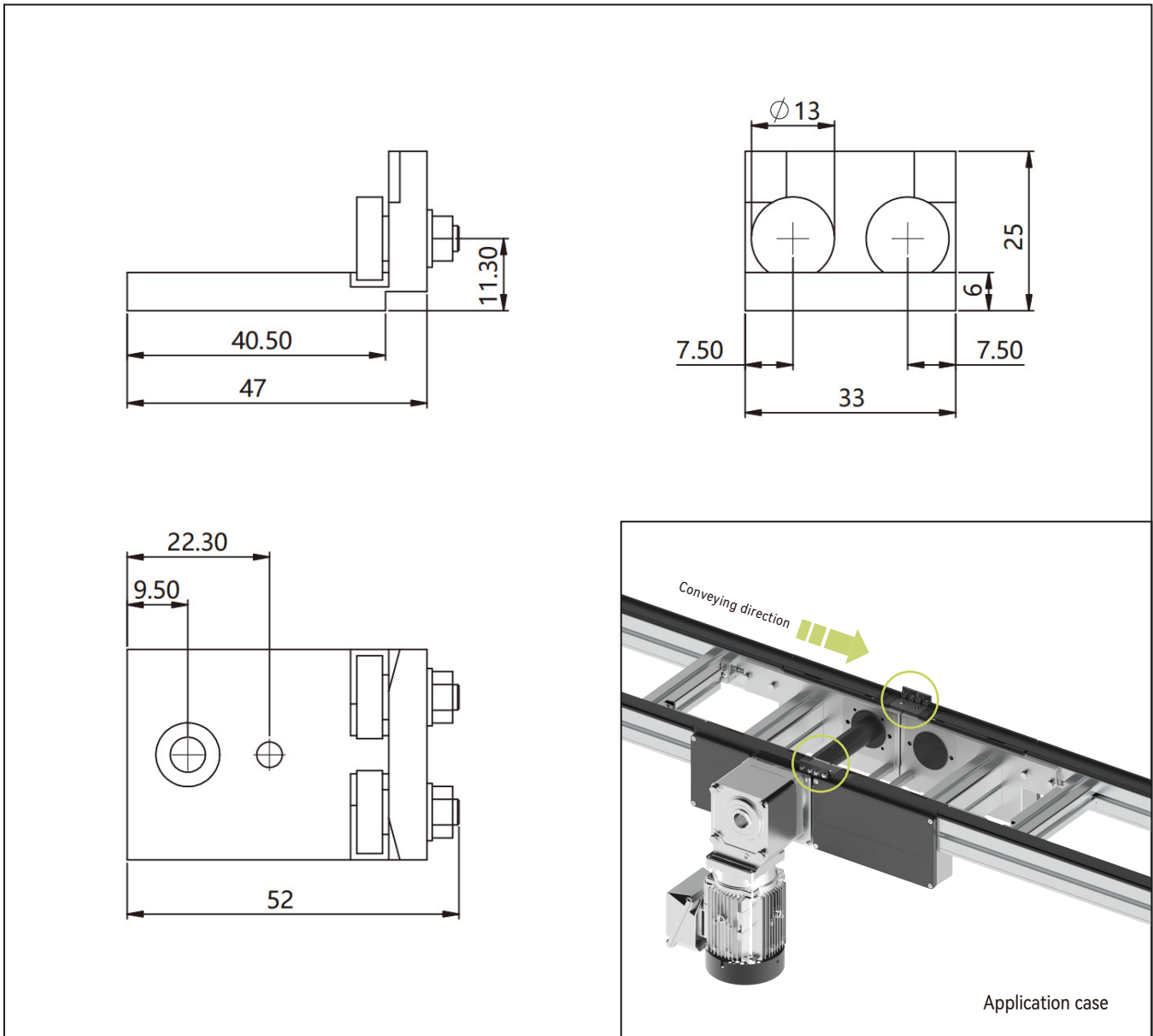
**Delivery notes**

Scope of delivery:
Roller track(1 pair)

Condition on delivery:
Fully assembled

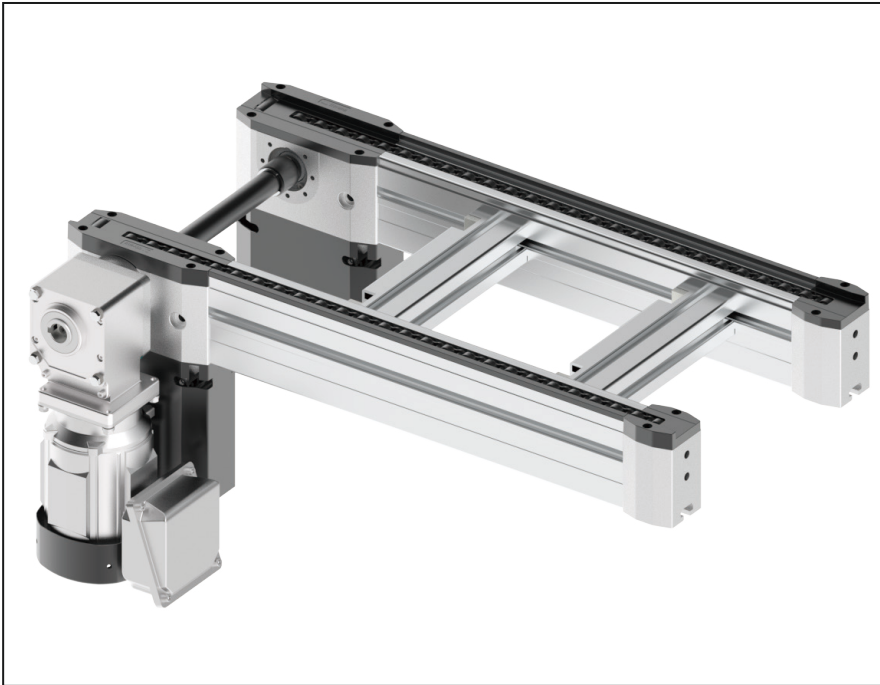
- ▶ Conveying medium: Free roller
- ▶ Unpowered
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Special unit for the connection of FC2 conveyor
- ▶ Used in pairs

FC2/R - Dimensions



| | |
|----------------------------|--------------|
| Product description | Roller track |
| Model | FC2/R.01.01 |

AC2 Accumulated chain conveyor



Delivery notes

Scope of delivery:

Conveyor
Motor(with terminal box)

Condition on delivery:

Fully assembled

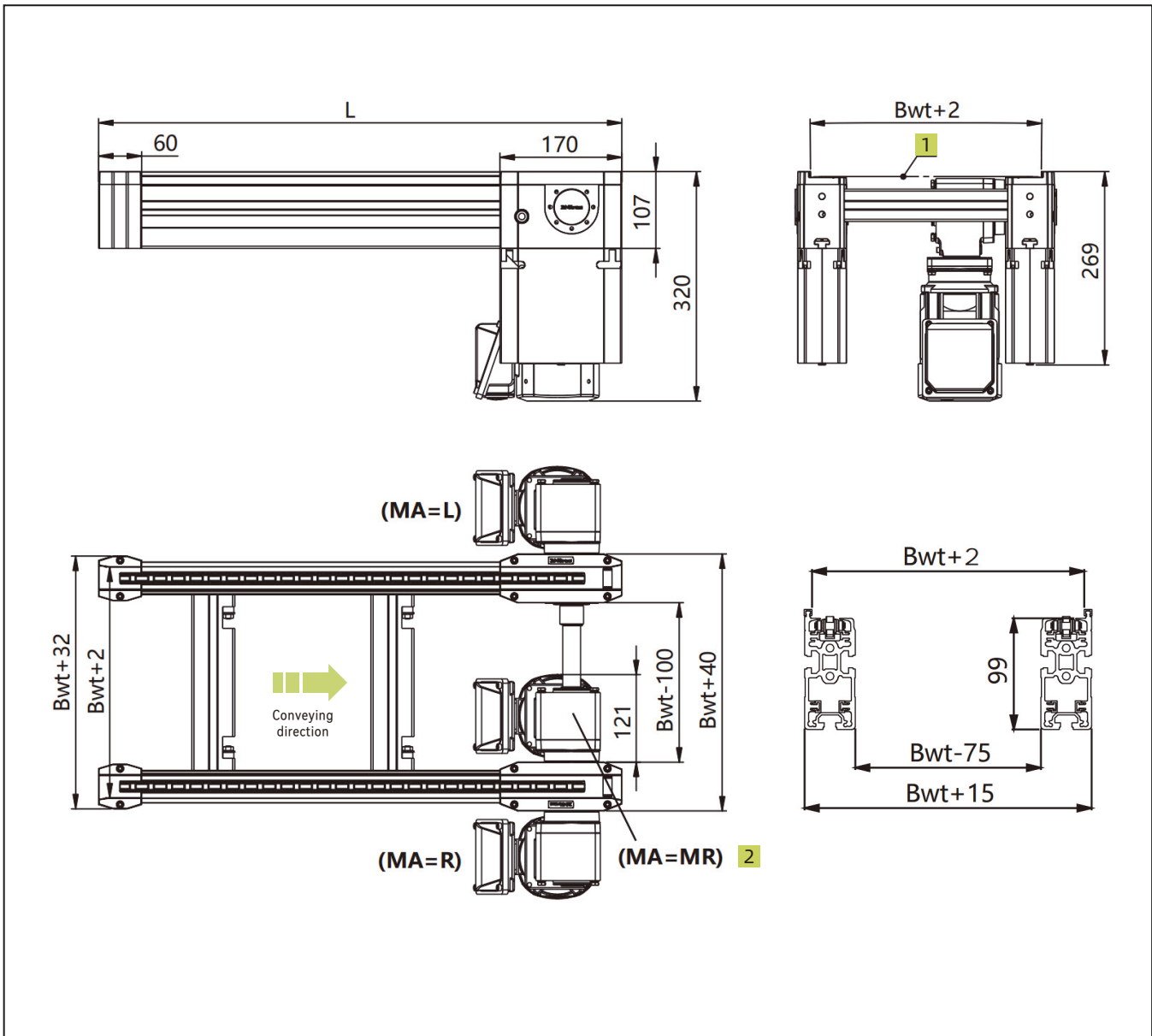
Recommended accessories:

Connection kit
Conveyor leg(with foundation bracket and bolts)
Automatic lubricate unit
Chain installation tool

- ▶ Conveyor medium: Accumulated chain
- ▶ Motor: Three phase motor¹,
Motor mounting location and angle has multiple options(Refer to below diagram)
- ▶ Accumulated chain with cover(to avoid small parts fall into chain gap) for option
- ▶ Reversible operation possible for conveyor length less than 2000 mm and accumulated chain without cover
- ▶ Accumulation operation possible
- ▶ Compliant with ESD
- ▶ Support customization

1 Support other motor type

AC2 - Dimensions

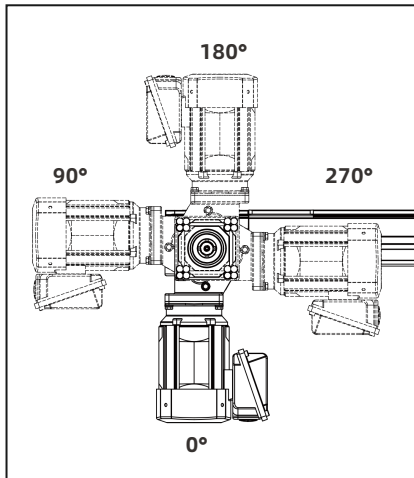


1. Conveyor medium top face

2. For MA=M, please confirm with Vitrans first.

Technical data

| | | |
|--|-----|--|
| Conveyor medium* | | Steel accumulated chain(Default), plastic accumulated chain, Steel accumulated chain with cover, plastic accumulated chain with cover |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Conveyor length(mm)* | L | $300 \leq L \leq 6000$ (Reversible operation possible for conveyor length ≤ 2000 mm and accumulated chain without cover) |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Permitted maximum load(kg)* | | 300 |
| Permitted maximum surface load* | | 1.5kg/cm (with plastic glide profile), 2.0kg/cm(with steel glide profile) |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| Motor mounting angle* | | 0°,90°,180°,270° |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |



▲ Motor mounting location diagram

| | |
|--------------------------------|---|
| Workpiece pallet width | Support customization |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Motor mounting location | MA=M requires conveyor Bwt \geq 240mm. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

AC2U Accumulated chain conveyor



Delivery notes

Scope of delivery:

Conveyor
Motor(with terminal box)

Condition on delivery:

Fully assembled

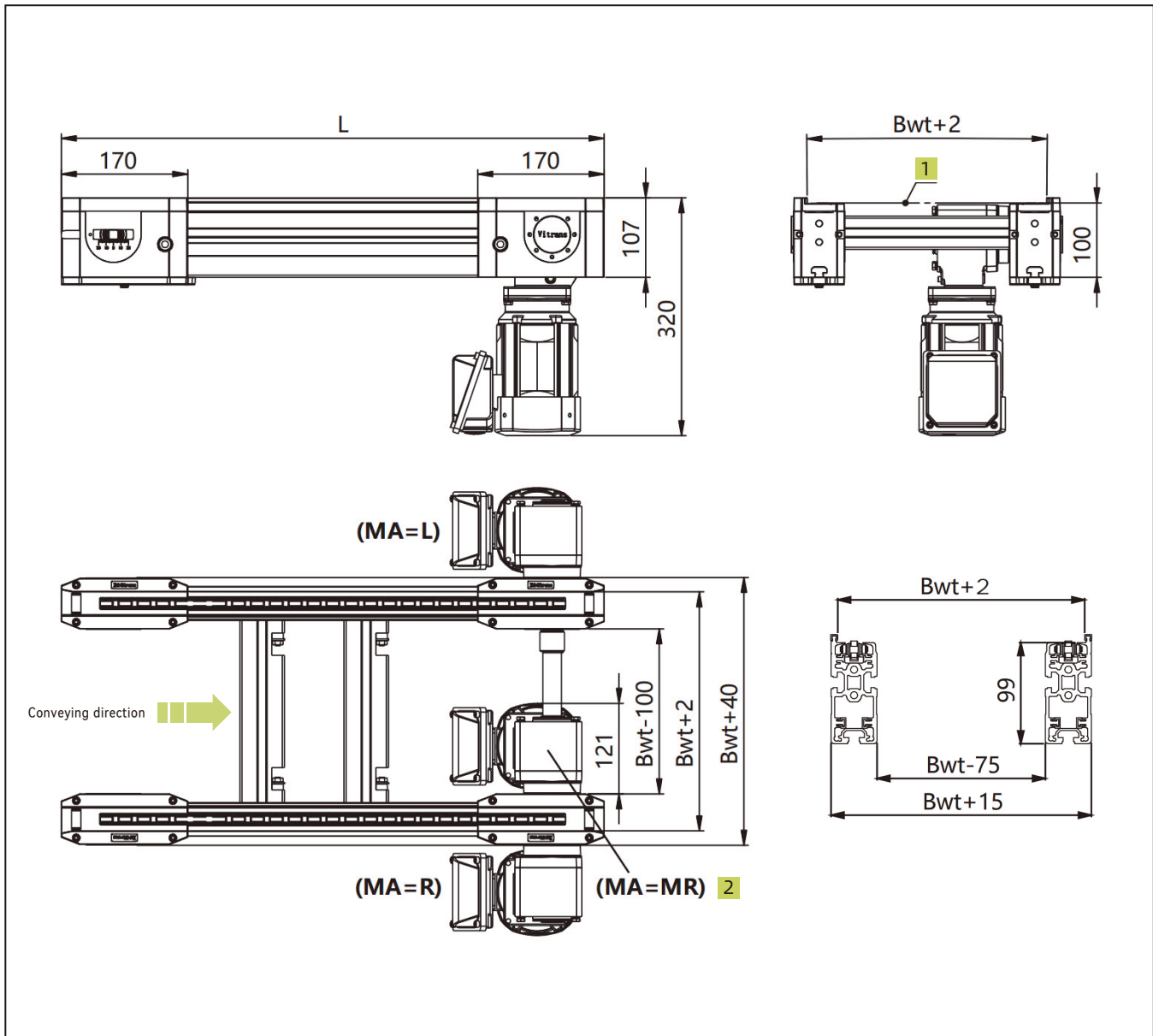
Recommended accessories:

Connection kit
Conveyor leg(with foundation bracket and bolts)
Automatic lubricate unit
Chain installation tool

- ▶ Conveyor medium: Accumulated chain
- ▶ Motor: Three phase motor¹,
Motor mounting location and angle has multiple options(Refer to below diagram)
- ▶ Accumulated chain with cover(to avoid small parts fall into chain gap) for option
- ▶ Reversible operation possible for conveyor length less than 2000 mm and accumulated chain without cover
- ▶ Accumulation operation possible
- ▶ Compliant with ESD
- ▶ Support customization

1 Support other motor type

AC2U - Dimensions

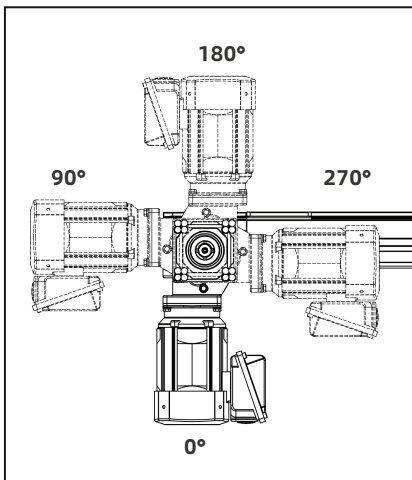


1. Conveyor medium top face

2. For $MA=M$, please confirm with Vitrans first.

Technical data

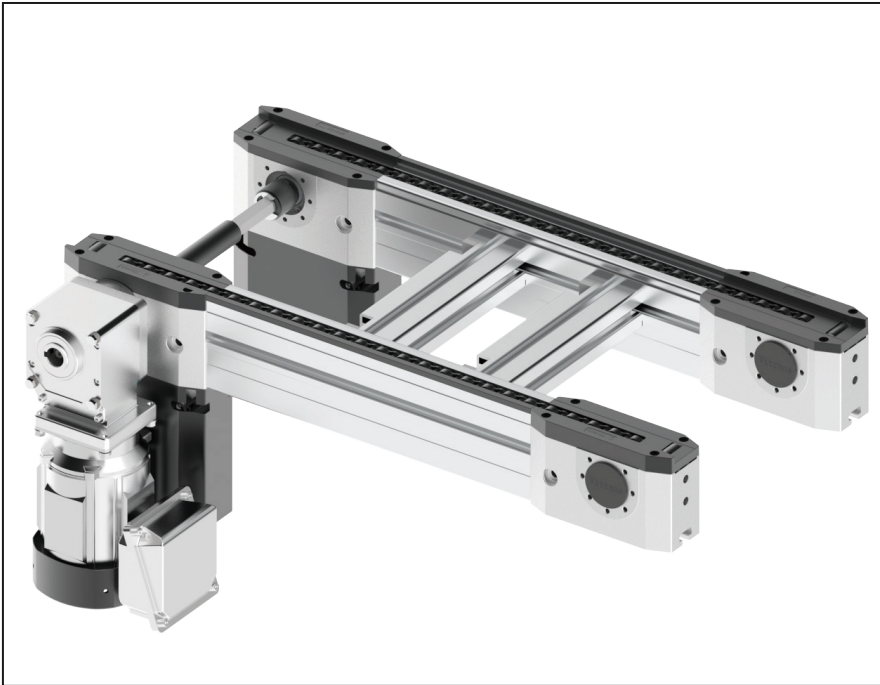
| | | |
|--|-----|--|
| Conveyor medium* | | Steel accumulated chain(Default), plastic accumulated chain, Steel accumulated chain with cover, plastic accumulated chain with cover |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Conveyor length(mm)* | L | 500≤L≤6000 (Reversible operation possible for conveyor length ≤2000 mm and accumulated chain without cover) |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Permitted maximum load(kg)* | | 300 |
| Permitted maximum surface load* | | 1.5kg/cm (with plastic glide profile), 2.0kg/cm(with steel glide profile) |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| Motor mounting angle* | | 0°,90°,180°,270° |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |



▲ Motor mounting location diagram

| | |
|--------------------------------|---|
| Workpiece pallet width | Support customization |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Motor mounting location | MA=M requires conveyor Bwt≥240mm. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

AC2L Accumulated chain conveyor



Delivery notes

Scope of delivery:

Conveyor
Motor(with terminal box)

Condition on delivery:

Fully assembled

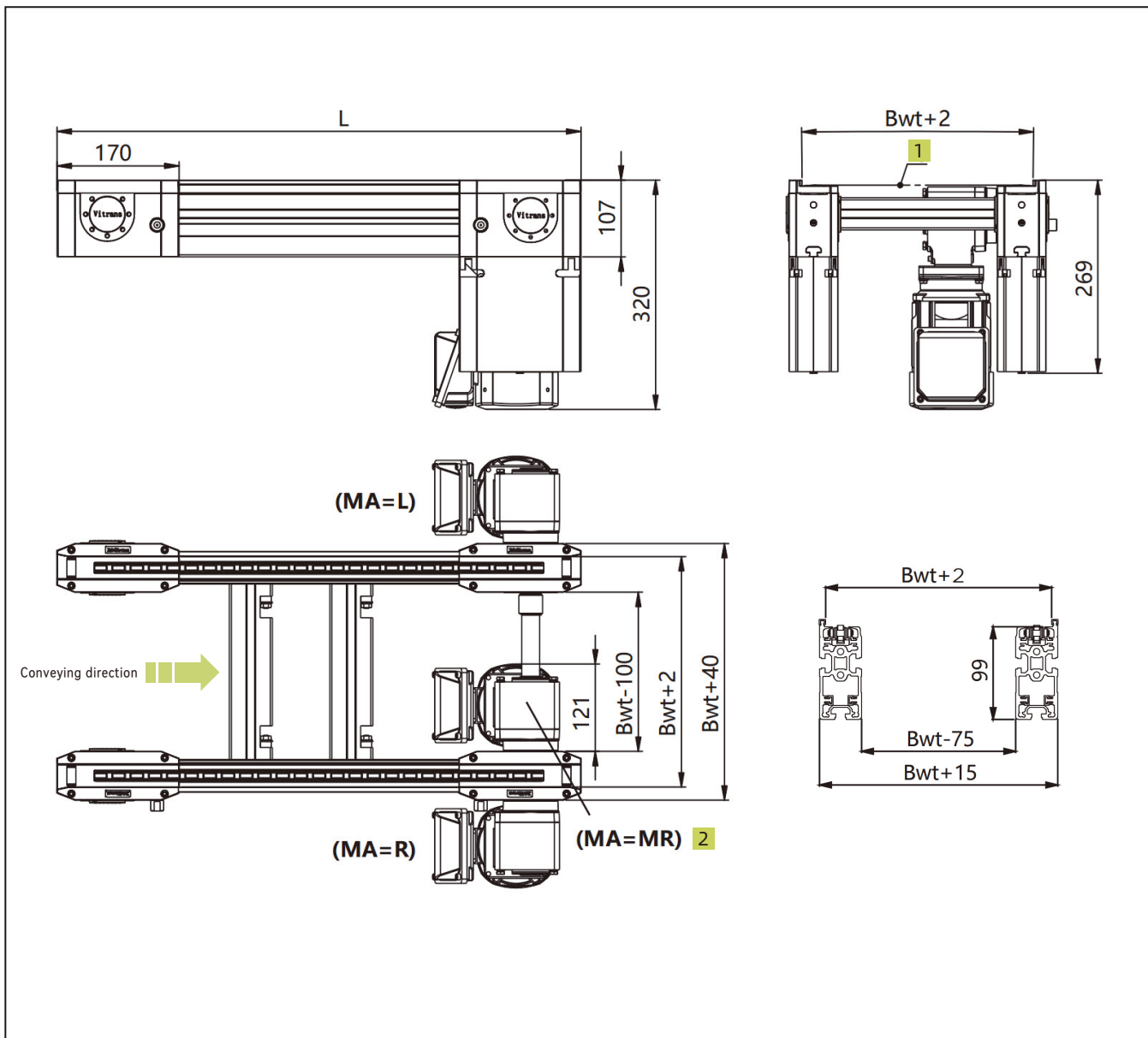
Recommended accessories:

Connection kit
Conveyor leg(with foundation bracket and bolts)
Automatic lubricate unit
Chain installation tool

- ▶ Conveyor medium: Accumulated chain
- ▶ Motor: Three phase motor¹,
Motor mounting location and angle has multiple options(Refer to below diagram)
- ▶ Accumulated chain with cover(to avoid small parts fall into chain gap) for option
- ▶ Reversible operation possible for conveyor length less than 2000 mm and accumulated chain without cover
- ▶ Accumulation operation possible
- ▶ Compliant with ESD
- ▶ Support customization

1 Support other motor type

AC2L - Dimensions

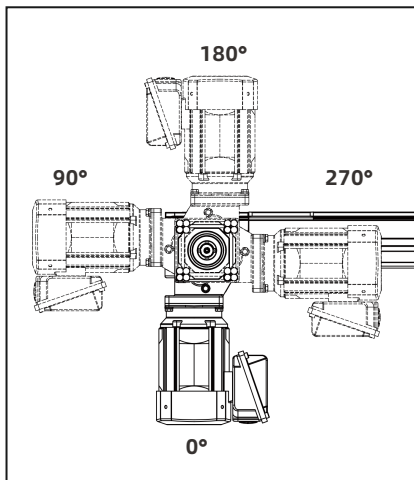


1. Conveyor medium top face

2. For MA=M, please confirm with Vitrans first.

Technical data

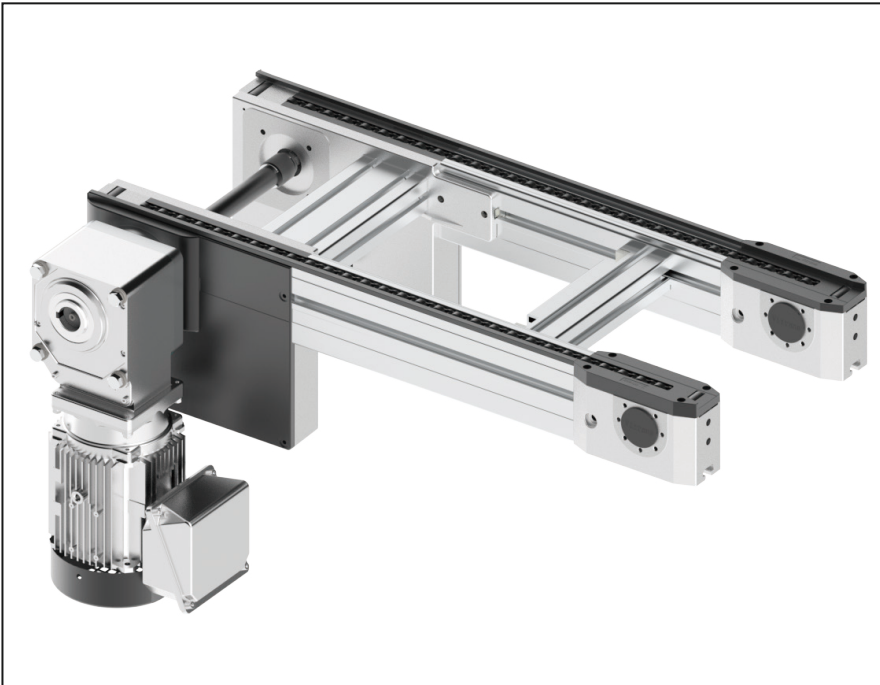
| | | |
|--|-----|--|
| Conveyor medium* | | Steel accumulated chain(Default), plastic accumulated chain, Steel accumulated chain with cover, plastic accumulated chain with cover |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Conveyor length(mm)* | L | 500≤L≤15000 (Reversible operation possible for conveyor length ≤2000 mm and accumulated chain without cover) |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Permitted maximum load(kg)* | | 700 |
| Permitted maximum surface load* | | 1.5kg/cm (with plastic glide profile), 2.0kg/cm(with steel glide profile) |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| Motor mounting angle* | | 0°,90°,180°,270° |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |



▲ Motor mounting location diagram

| | |
|--------------------------------|---|
| Workpiece pallet width | Support customization |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Motor mounting location | MA=M requires conveyor Bwt≥240mm. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

AC2/H Accumulated chain conveyor



Delivery notes

Scope of delivery:

Conveyor
Motor(with terminal box)

Condition on delivery:

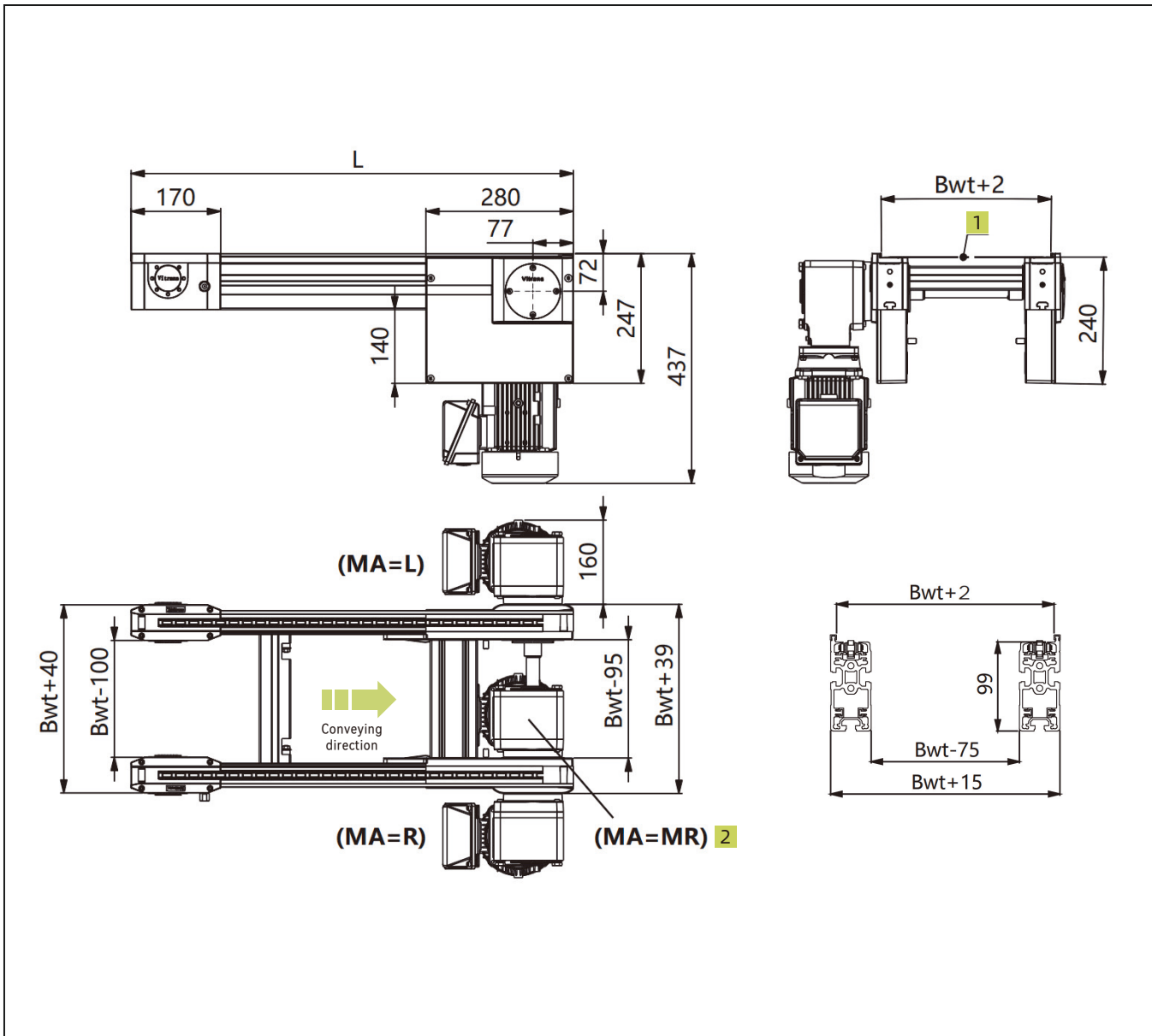
Fully assembled

Recommended accessories:

Connection kit
Conveyor leg(with foundation bracket and bolts)
Automatic lubricate unit
Chain installation tool

- ▶ Conveyor medium: Accumulated chain
 - ▶ Motor: Three phase motor¹,
Motor mounting location and angle has multiple options(Refer to below diagram)
 - ▶ Accumulated chain with cover(to avoid small parts fall into chain gap) for option
 - ▶ Accumulation operation possible
 - ▶ Compliant with ESD
 - ▶ Support customization
- 1** Support other motor type

AC2/H - Dimensions

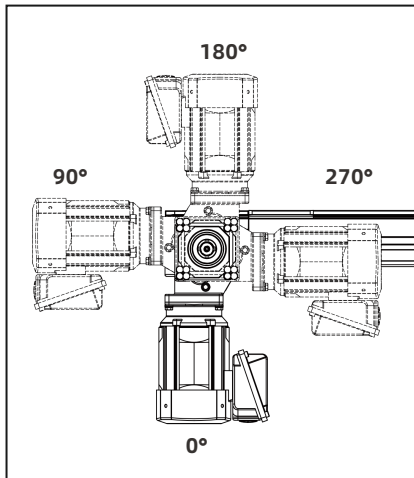


1. Conveyor medium top face

2. For MA=M, please confirm with Vitrans first.

Technical data

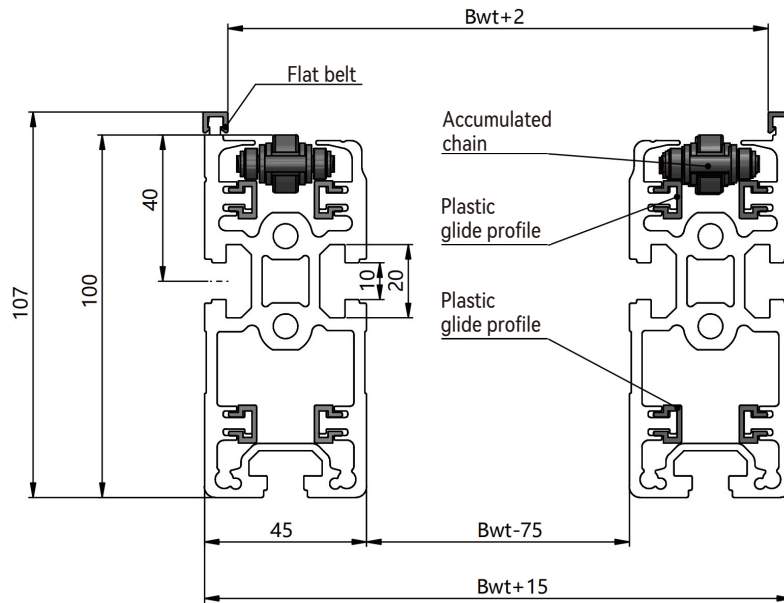
| | | |
|--|-----|--|
| Conveyor medium* | | Steel accumulated chain(Default), plastic accumulated chain, Steel accumulated chain with cover, plastic accumulated chain with cover |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Conveyor length(mm)* | L | 1000≤L≤15000 (Reversible operation possible for conveyor length ≤2000 mm and accumulated chain without cover) |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Permitted maximum load(kg)* | | 2200 |
| Permitted maximum surface load* | | 1.5kg/cm (with plastic glide profile), 2.0kg/cm(with steel glide profile) |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| Motor mounting angle* | | 0°,90°,180°,270° |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |



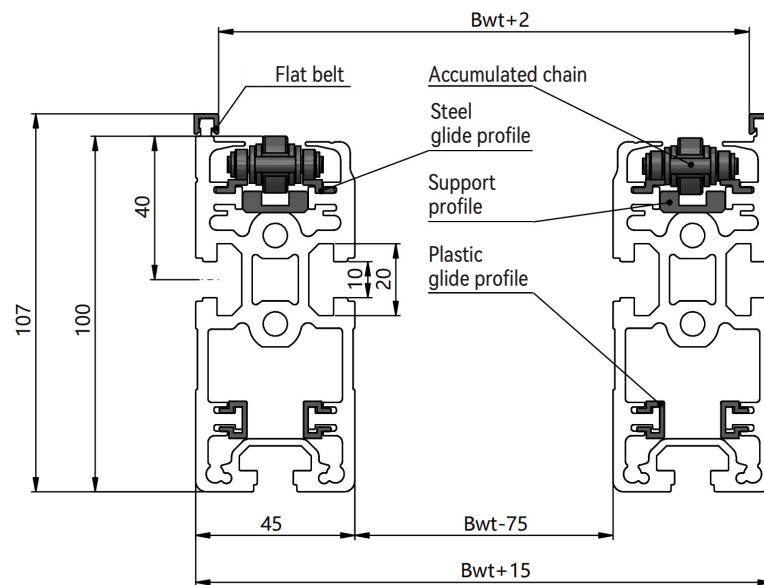
▲ Motor mounting location diagram

| | |
|--------------------------------|---|
| Workpiece pallet width | Support customization |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Motor mounting location | MA=M requires conveyor Bwt≥240mm. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

AC2 Series conveyor section dimensions



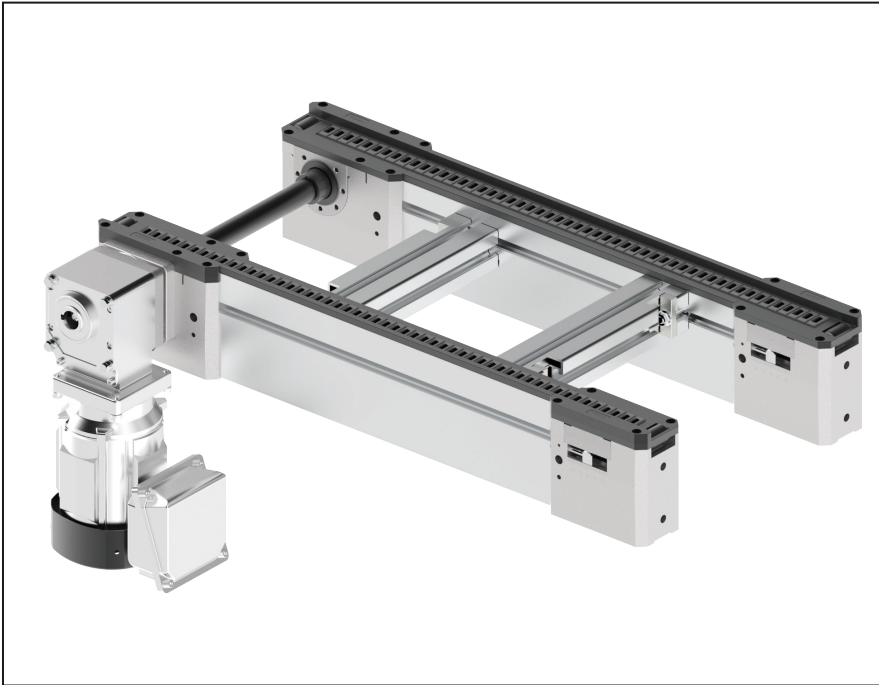
Accumulated chain conveyor
with plastic glide profile



Accumulated chain conveyor
with steel glide profile

- ▶ Permitted maximum surface load with plastic glide profile: 1.5kg/cm
- ▶ Permitted maximum surface load with steel glide profile: 2kg/cm
- ▶ Default glide profile: Plastic

PC2 Plastic chain conveyor



Delivery notes

Scope of delivery:

Conveyor

Motor(with terminal box)

Condition on delivery:

Fully assembled

Recommended accessories:

Connection kit

Conveyor leg(with foundation bracket and bolts)

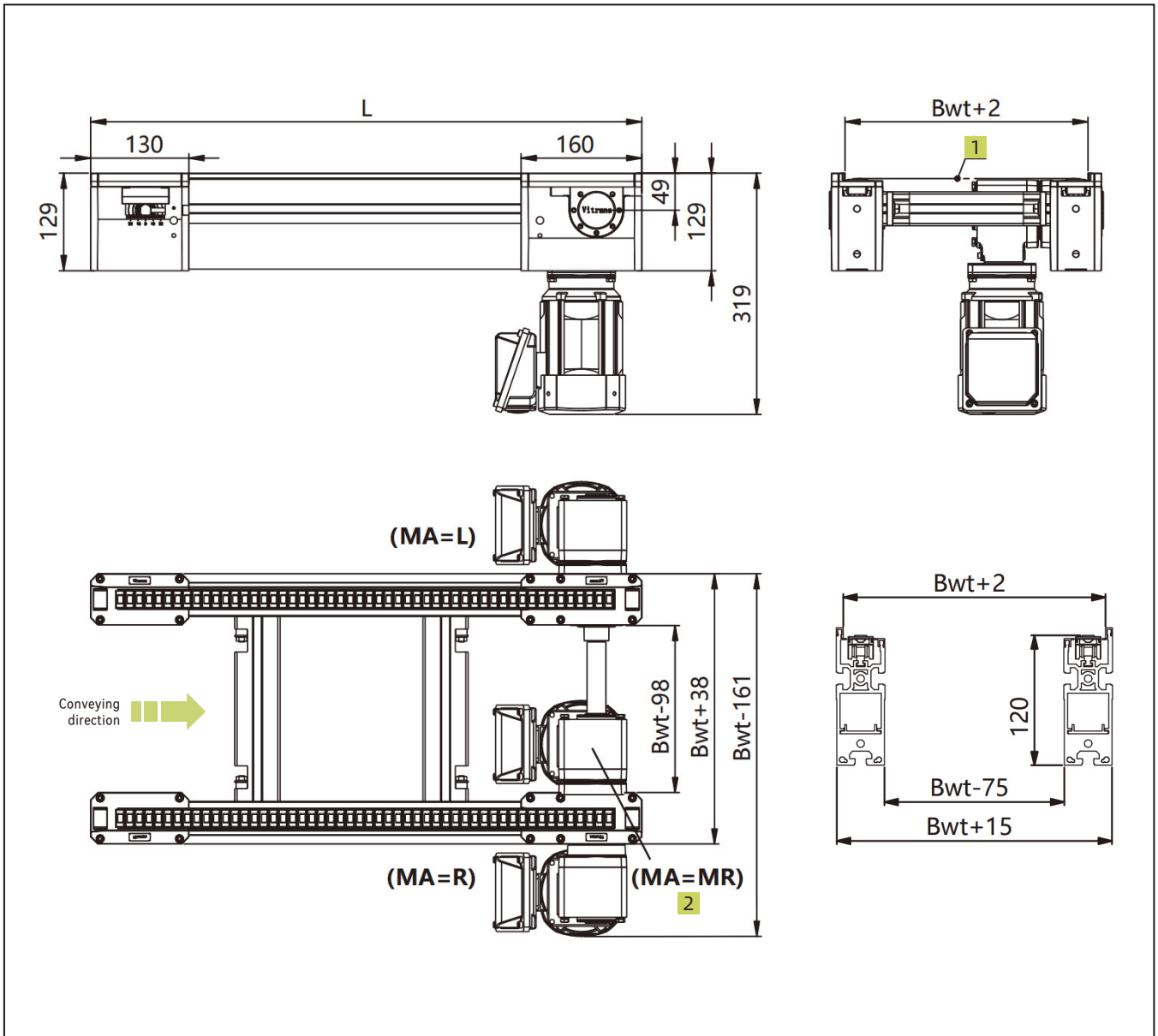
Automatic lubricate unit

Chain installation tool

- ▶ Conveyor medium: Plastic chain conveyor
- ▶ Motor: Three phase motor¹,
Motor mounting location and angle has multiple options(Refer to below diagram)
- ▶ Permitted maximum surface load: 0.5kg/cm
- ▶ Accumulation operation possible
- ▶ Reversible operation not possible
- ▶ Compliant with ESD
- ▶ Support customization

1 Support other motor type

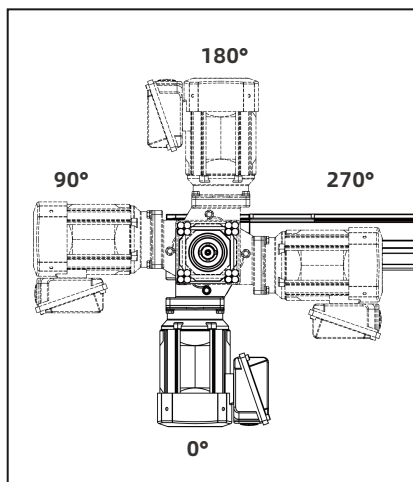
PC2 - Dimensions



1. Conveyor medium top face
2. For MA=M, please confirm with Vitrans first.

Technical data

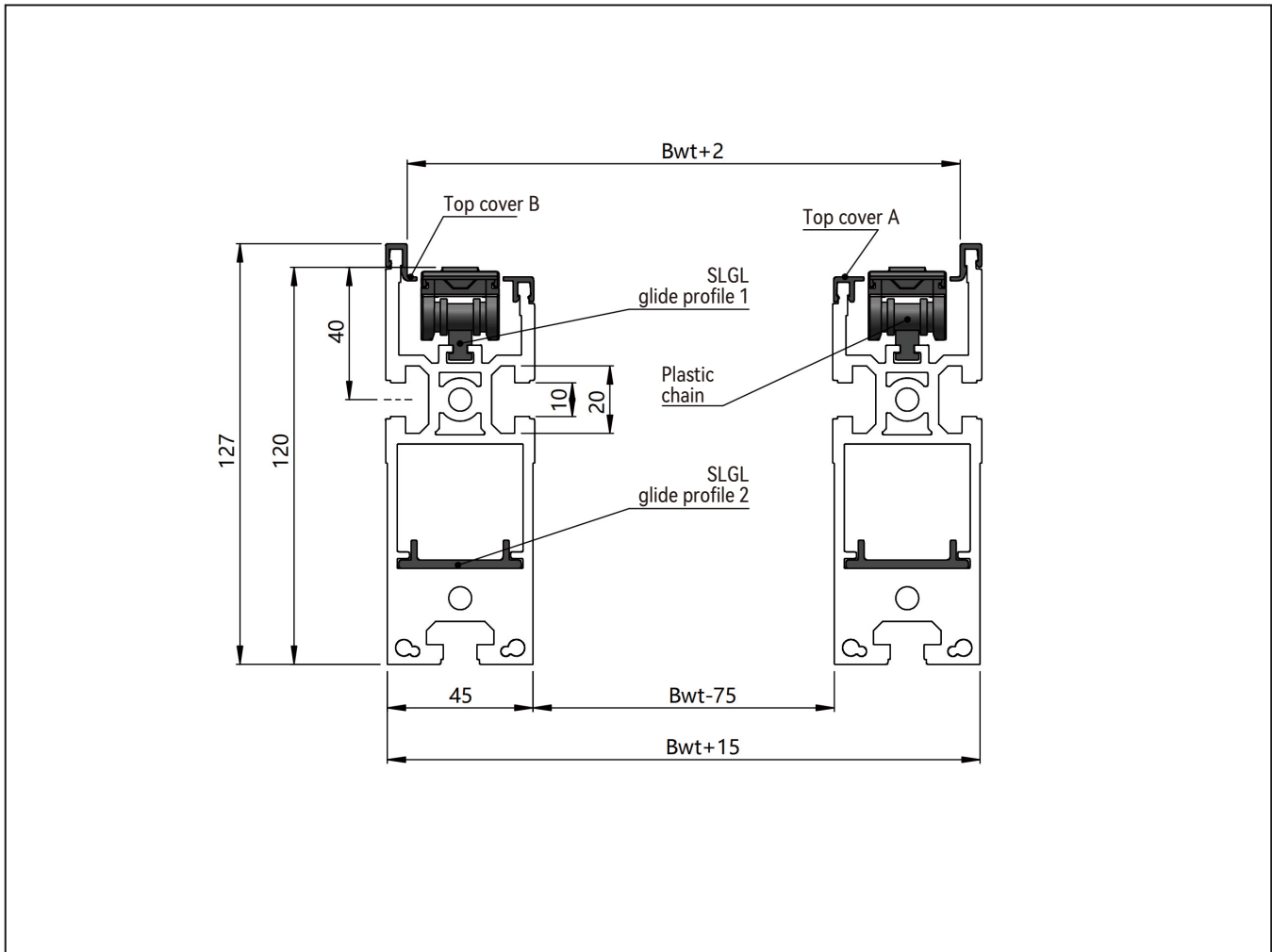
| | | |
|--|-----|--|
| Conveyor medium** | | Plastic chain conveyor |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Conveyor length(mm)* | L | 500≤L≤8000 |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Permitted maximum load(kg)* | | 150 |
| Permitted maximum surface load(kg/cm)* | | 0.5 |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right), ML(Middle-Left), MR(middle-Right) |
| Motor mounting angle* | | 0°,90°,180°,270° |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |



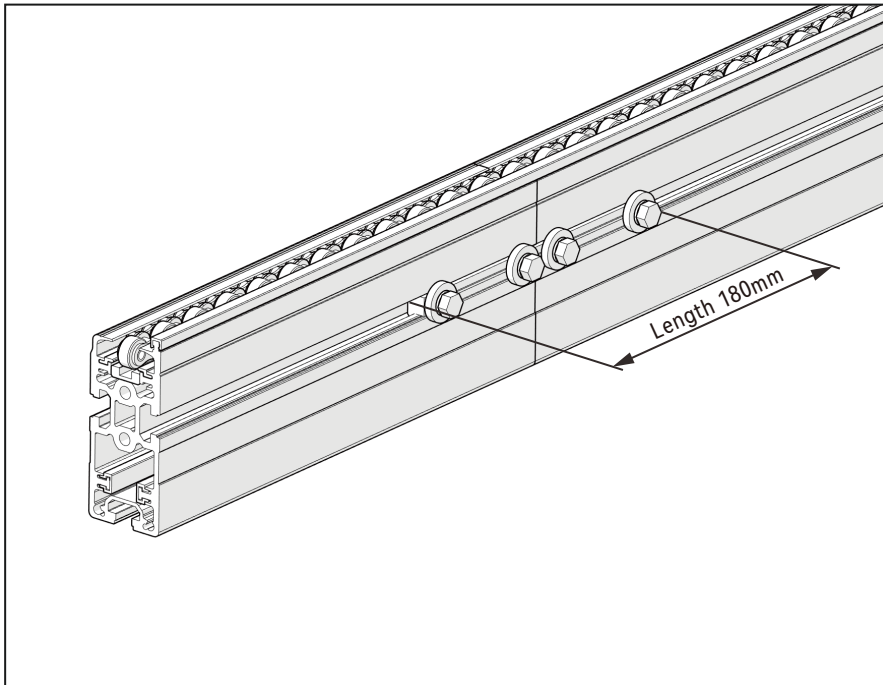
▲ Motor mounting location diagram

| | |
|-------------------------|---|
| Workpiece pallet width | Support customization |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Motor mounting location | MA=M requires conveyor Bwt≥240mm. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

PC2 Conveyor section dimensions



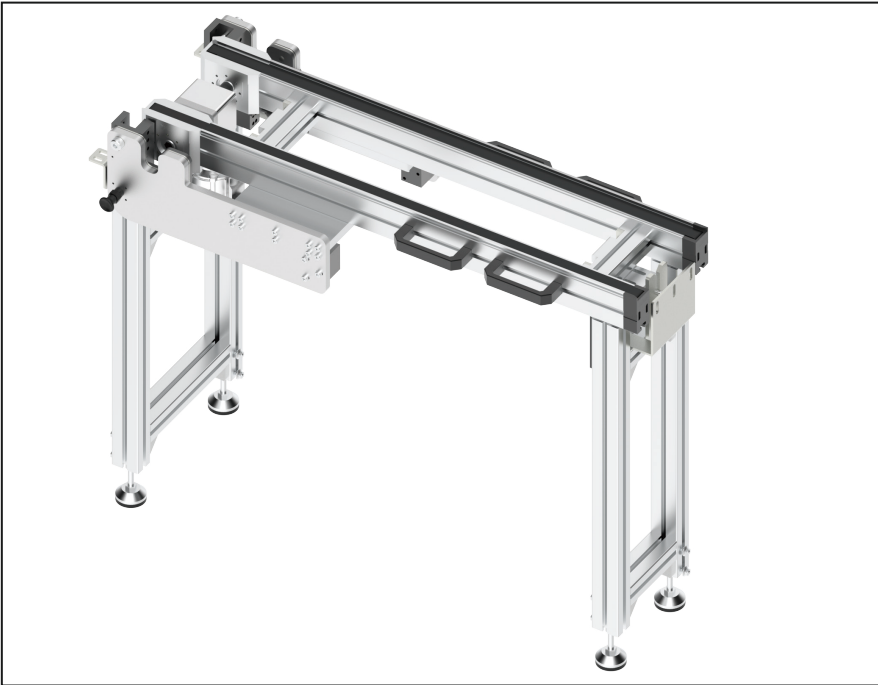
Profile connector



- ▶ For connecting two conveyor section profiles.
- ▶ Two profile connectors are recommended for each profile joint.
- ▶ Joint position(180mm) cannot install stopper, lift and locate unit, or lift and transfer unit.
- ▶ Suitable for BC2, FC2, AC2 and PC2 conveyor section.

TG2/H Lift gate

TG2/H lift gate provides access or passage to the inner spaces of a conveyor system. Manually tilting the conveyor can open it from 0° to 85°. The effort required to do this is reduced with the aid of a gas pressure spring.



Delivery notes

Scope of delivery:

Lift gate
Gas pressure spring
Lock mechanism
Safety switch
Assembly kit

Condition on delivery:

Fully assembled

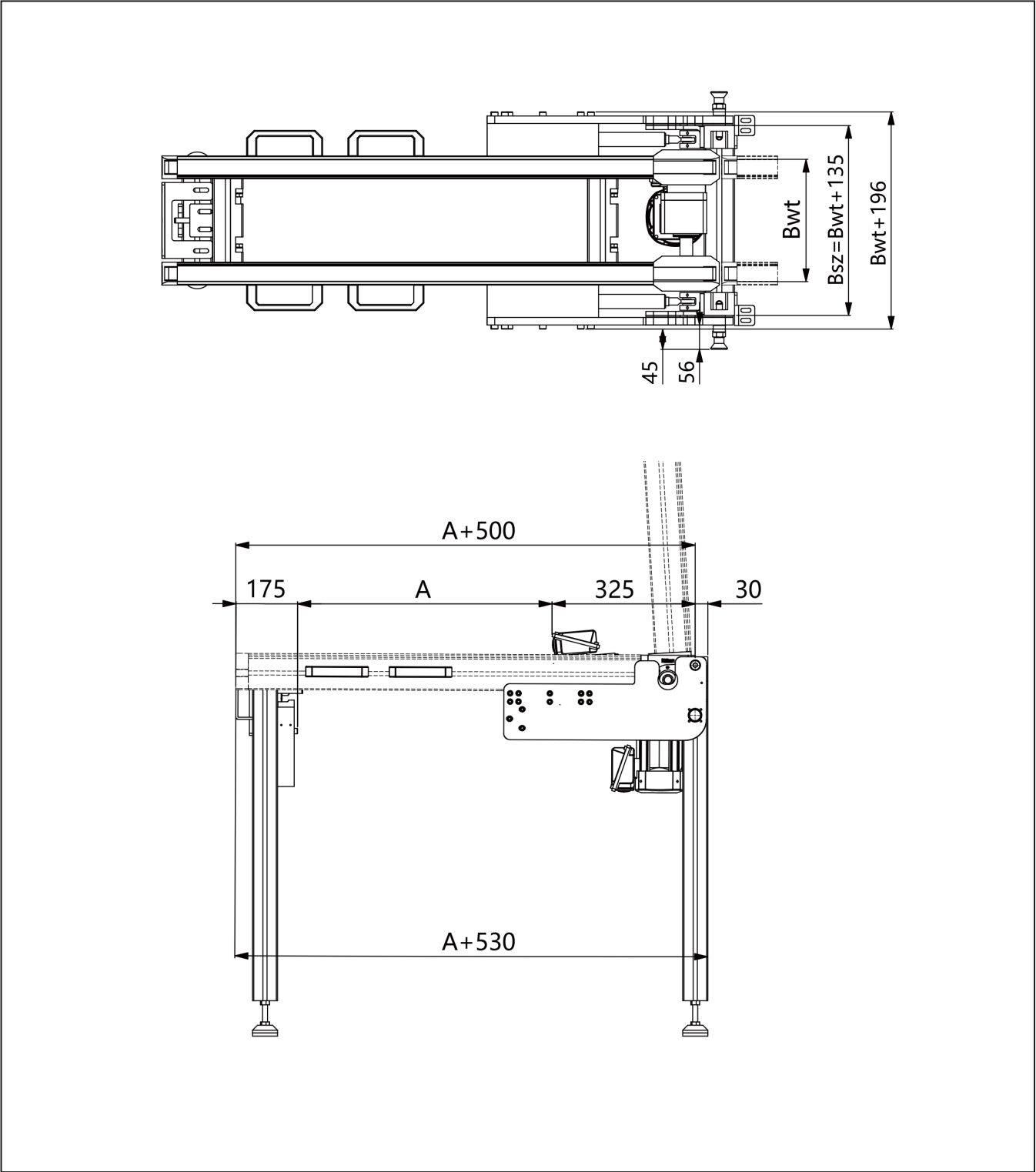
Recommended accessories:

Conveyor
Conveyor leg(with foundation bracket and bolts)
Aluminum profile 45x60
Corner parts 45x45

- ▶ Conveyor length(L) is equal to required access width(A) plus 500mm.
- ▶ Installation space of TG2/H lift gate is equal to required access width(A) plus 535mm.

1 The above figure takes BC2 conveyor for example.

TG2/H - Dimensions (Takes BC2 conveyor for example)



Note: Workpiece pallet width must ≥ 240 mm, and motor must be mounted at middle location.

TG2/H - Application



Technical data

| | | |
|-----------------------------|-----|--|
| Conveyor type* | | BC2,AC2,AC2U,AC2L,PC2 |
| Workpiece pallet width(mm)* | Bwt | 240,320,400,480,560,640,800,1040,1200 |
| Access width(mm)* | A | 600,700,800,900,1000,1100,1200,1300,1400,1500,1600,1700,1800 |
| Maximum tilting angle* | | 85° |

Ordering information

| | |
|----------------------------|--|
| TG2/H | Lift gate: TG2/H |
| <input type="checkbox"/> B | Workpiece pallet width: 240 / 320 / 400 / 480 / 560 / 640 / 800 / 1040 / 1200 |
| <input type="checkbox"/> A | Access width: 600 / 700 / 800 / 900 / 1000 / 1100 / 1200 / 1300 / 1400 / 1500 / 1600 / 1700 / 1800 |
| <input type="checkbox"/> | Conveyor type: BC2 / AC2 / AC2U / AC2L / PC2 |
| <input type="checkbox"/> | Motor mounting location: ML(Middle-Left),MR(middle-Right) |

Ordering example

TG2/H—B400—A1000—BC2—ML

Lift gate: TG2/H

Workpiece pallet width: Bwt=400

Access width: A=1000

Conveyor type: BC2

Motor mounting location: ML(Middle-Left)

Special requirements: None

AC2/R Connection belt

The connection of the drive and return units of AC2/U, AC2/L and AC2/H results in short, non-driven sections. The connection belt is used to bridge these > 180 mm conveyor trenches by using short Lwt < 320 mm workpiece pallets.



Delivery notes

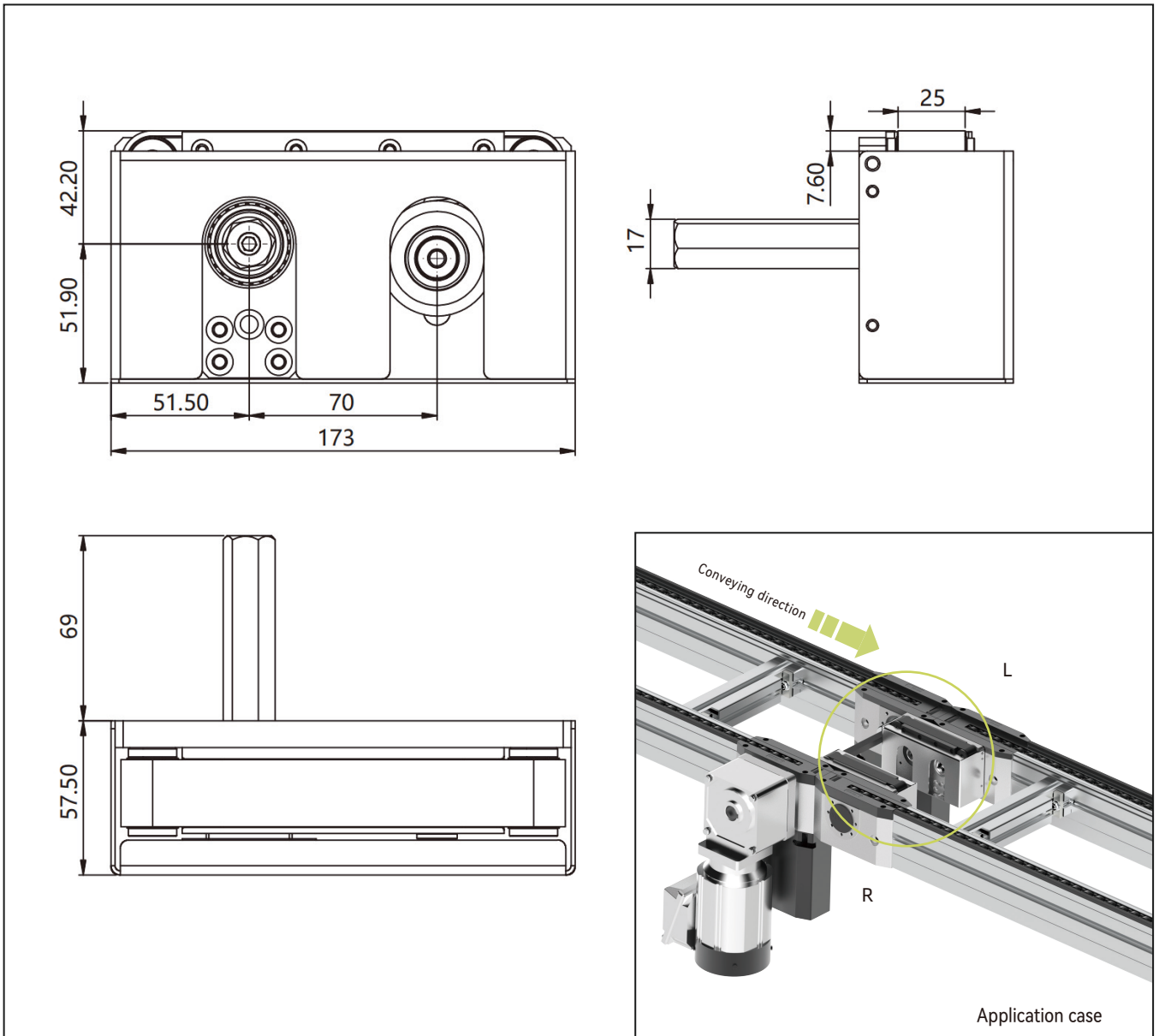
Scope of delivery:
Connection belt

Condition on delivery:
Fully assembled

- ▶ Conveyor medium: Timing belt
- ▶ Passive mechanism, without power
- ▶ Paired use, connection belt left and right are mirrored

Note: While workpiece pallet width Bwt < 240mm, only can install connection belt left or right.

AC2/R - Dimensions



| | |
|----------------------------|--------------------------------|
| Product description | Connection belt |
| Model | AC2/R.L(Connection belt-left) |
| | AC2/R.R(Connection belt-right) |

RH3 Automatic lubricate unit

Automatically adding lubricating oil to the conveyor medium in a timed and quantitative manner.



Delivery notes

Scope of delivery:

Automatic lubricate unit
Mounting bracket
Tee fitting
Tube
Connector
Flange
Adapter

Condition on delivery:

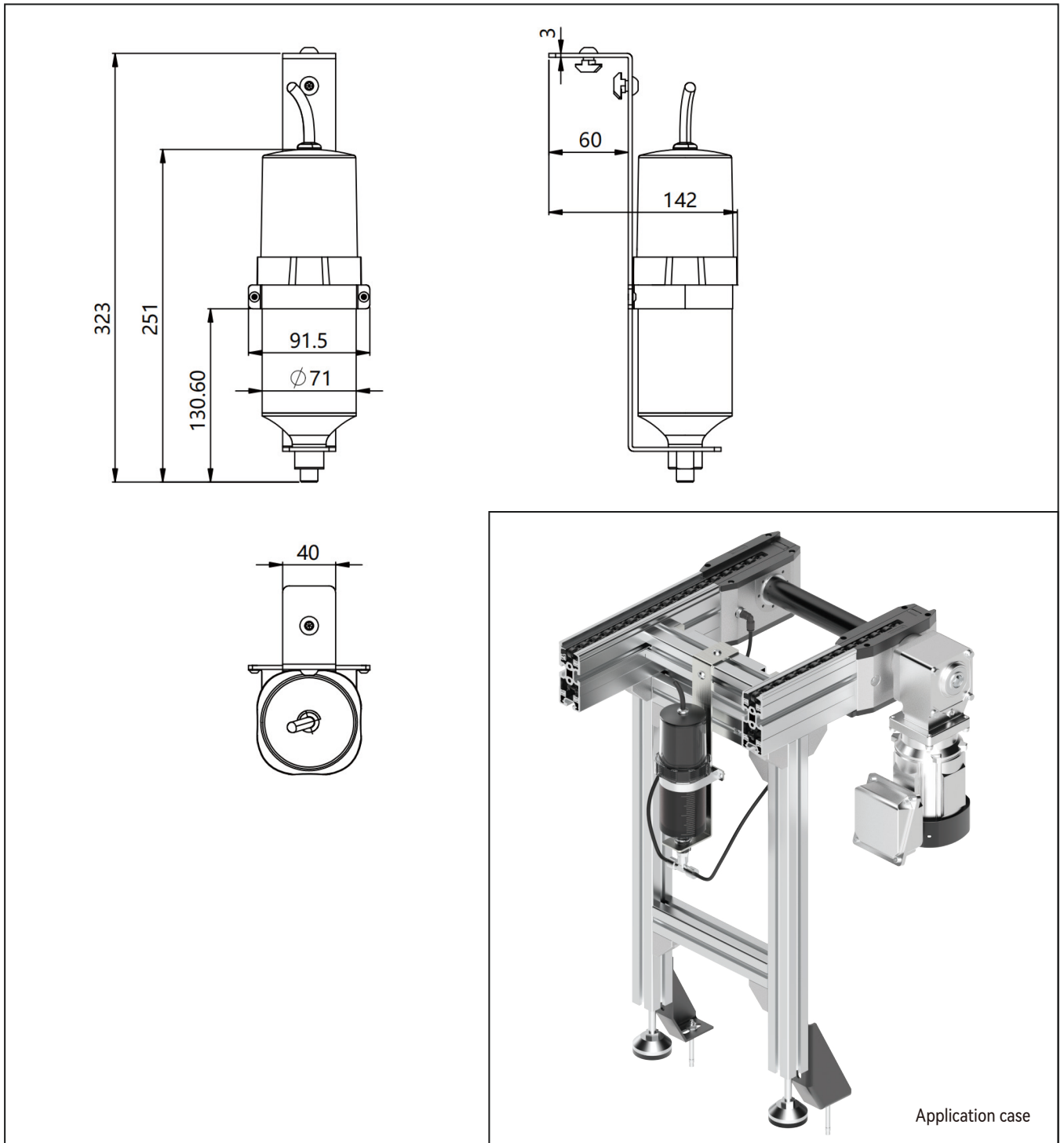
Fully assembled

Recommended accessories:

Oil (VG 68 Industrial oil)

- ▶ Suitable for accumulated chain, flat top chain and plastic chain.
- ▶ Two control modes for option, pulse or timing control.
- ▶ Working principle: The lubricate unit is powered by a DC motor, and through a reduction gear set, it reduces speed and increases torque to achieve the delivery of high viscosity lubricating oil. Through the built-in electronic control module (time mode) or PLC pulse control (pulse mode), the lubricating oil is continuously output in a timed and quantitative manner.

RH3 - Dimensions

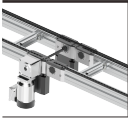


| | |
|----------------------------|--------------------------|
| Product description | Automatic lubricate unit |
| Model | RH3.01.01 |

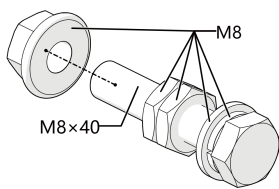
Technical data

| | |
|-----------------------------|-------------------|
| Drive method* | DC Motor |
| Minimum operation interval* | 10s |
| Work pressure* | 0-5bar |
| Work voltage* | VSS-GND 12~24V DC |
| Work temperature* | -20°C~60°C |
| Storage temperature* | 20°C |
| Minimum oil output* | 0.82ml/per dose |
| Maximum oil output* | 10ml/per dose |
| Oil container volume* | 300ml |

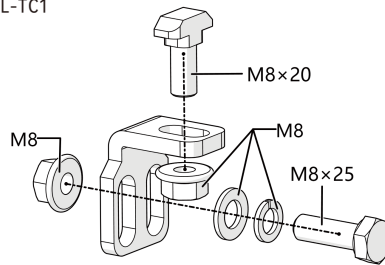
Connection kits for longitudinal conveyors

|  Return unit / Drive unit | FC2 Drive unit | AC2 Return unit AC2 Drive unit | BC2 Return unit | BC2 Drive unit | AC2 Return unit CV2 Return unit | PC2 Return unit |
|---|----------------|-----------------------------------|-----------------|----------------|------------------------------------|--|
| | FC2 Drive unit | L-TC0 | L-TC1 | L-TC2 | L-TC2 | L-TC1 |
| CV2 Drive unit | L-TC1 | L-TC4 | L-TC11 | L-TC5 | L-TC4 | L-TC7 |
| AC2, AC2L Drive unit | L-TC1 | L-TC4 | L-TC11 | L-TC5 | L-TC4 | L-TC7 |
| BC2 Drive unit | L-TC2 | L-TC5 | L-TC5 | L-TC4 | L-TC5 | L-TC10 |
| BC2 Return unit | L-TC2 | L-TC11 | L-TC4 | L-TC5 | L-TC11 | L-TC14 |
| AC2U Drive unit | L-TC1 | L-TC4 | L-TC11 | L-TC5 | L-TC4 | L-TC6 |
| AC2/H Drive unit | L-TC2 | L-TC1 | L-TC2 | L-TC2 | L-TC1 | L-TC3 <small>Tightening screw in opposite</small> |
| KV2 Drive unit | L-TC2 | L-TC5 | L-TC5 | L-TC4 | L-TC5 | L-TC10 |
| PC2 Drive unit | L-TC3 | L-TC7 | L-TC14 | L-TC15 | L-TC7 | L-TC8 |

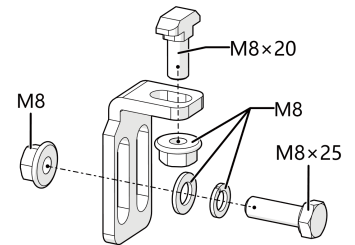
L-TC0



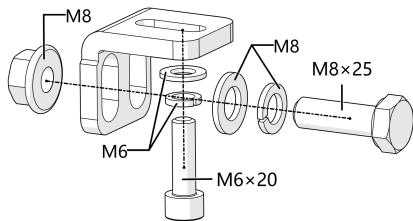
L-TC1



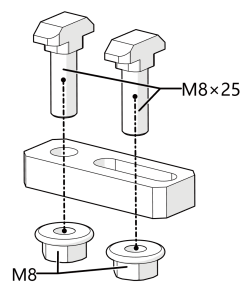
L-TC2



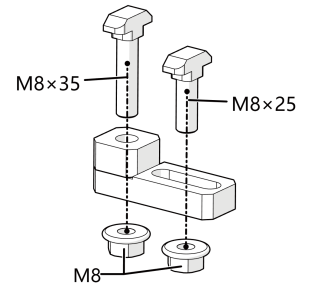
L-TC3



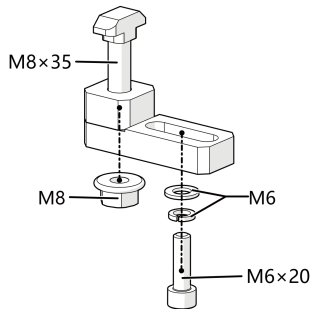
L-TC4



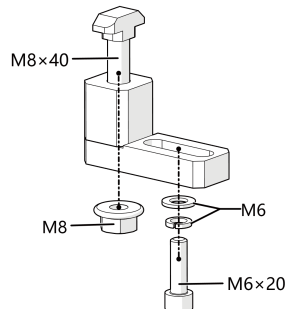
L-TC5



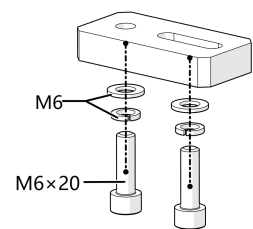
L-TC6



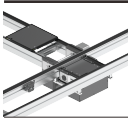
L-TC7



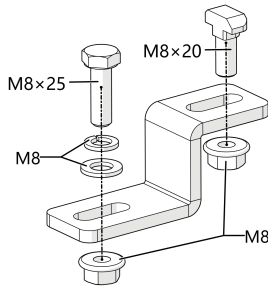
L-TC8



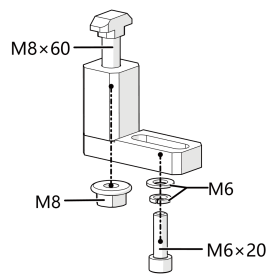
Connection kits for transverse conveyors

|  | Longitudinal conveyor | BC2/FC2 | AC2、AC2U、AC2L、AC2/H | PC2 |
|--|-----------------------|---------|---------------------|--------|
| | Transverse conveyor | | | |
| FC2(Drive or return unit) | | L-TC2 | L-TC1 | L-TC9 |
| CV2(Drive or return unit) | | L-TC17 | L-TC16 | L-TC12 |
| AC2(Drive or return unit) | | L-TC17 | L-TC16 | L-TC12 |
| AC2U(Drive or return unit) | | L-TC17 | L-TC16 | L-TC12 |
| AC2L(Drive or return unit) | | L-TC17 | L-TC16 | L-TC12 |
| AC2/H(Drive unit) | | L-TC2 | L-TC2 | / |
| AC2/H(Return unit) | | L-TC17 | L-TC16 | L-TC12 |
| BC2(Drive unit) | | L-TC4 | L-TC11 | L-TC14 |
| BC2(Return unit) | | L-TC5 | L-TC12 | L-TC15 |
| PC2(Drive or return unit) | | L-TC18 | L-TC6 | L-TC6 |

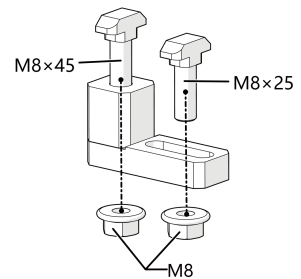
L-TC9



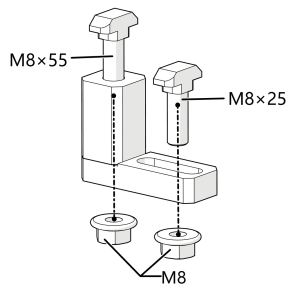
L-TC10



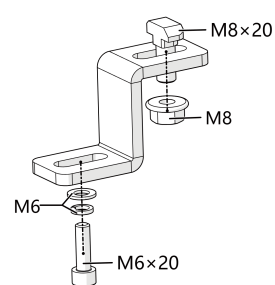
L-TC11



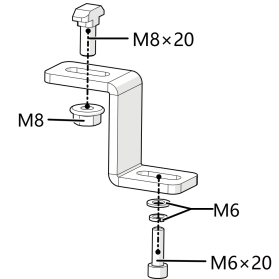
L-TC12



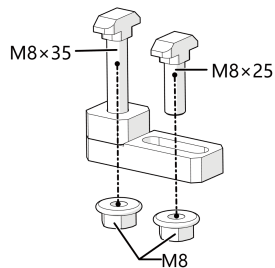
L-TC14



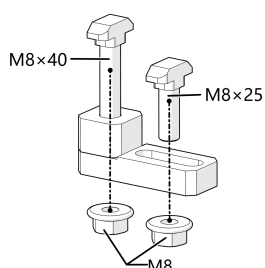
L-TC15



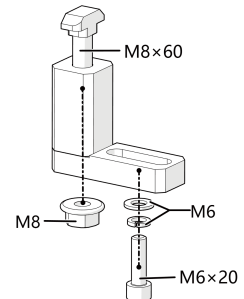
L-TC16



L-TC17



L-TC18



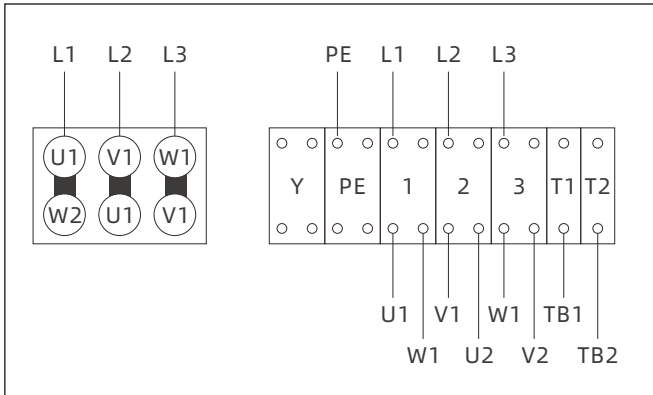
Note: L-TC13 is removed.

Motor technical data of conveyors

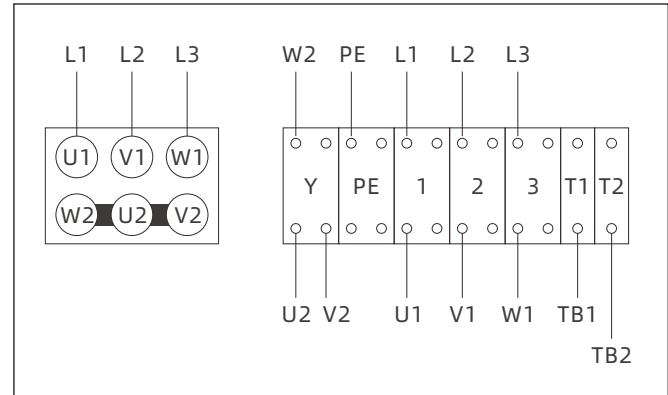
| Conveyor type | Rated speed (m/min) | Permitted maximum load (kg) | Working frequency (Hz) | Motor power (KW) |
|---------------|------------------------|--------------------------------|---------------------------|---------------------|
| BC2 BC2/M | 6 | 60 | 50 | 0.2 |
| | 9 | 60 | 50 | 0.2 |
| | 12 | 60 | 50 | 0.2 |
| | 15 | 60 | 50 | 0.2 |
| | 18 | 60 | 50 | 0.2 |
| FC2 | 6 | 250 | 50 | 0.75 |
| | 9 | 250 | 50 | 0.75 |
| | 12 | 250 | 50 | 0.75 |
| | 15 | 250 | 50 | 0.75 |
| | 18 | 250 | 50 | 0.75 |
| AC2 AC2U | 6 | 300 | 50 | 0.2 |
| | 9 | 300 | 50 | 0.2 |
| | 12 | 300 | 50 | 0.2 |
| | 15 | 300 | 50 | 0.2 |
| | 18 | 300 | 50 | 0.2 |
| AC2L | 6 | 700 | 50 | 0.4 |
| | 9 | 700 | 50 | 0.4 |
| | 12 | 700 | 50 | 0.4 |
| | 15 | 700 | 50 | 0.4 |
| | 18 | 700 | 50 | 0.4 |
| AC2/H | 6 | 2200 | 50 | 0.75 |
| | 9 | 2200 | 50 | 0.75 |
| | 12 | 2200 | 50 | 0.75 |
| | 15 | 2200 | 50 | 0.75 |
| | 18 | 2200 | 50 | 0.75 |
| PC2 | 6 | 150 | 50 | 0.2 |
| | 9 | 150 | 50 | 0.2 |
| | 12 | 150 | 50 | 0.2 |
| | 15 | 150 | 50 | 0.2 |
| | 18 | 150 | 50 | 0.2 |

Motor connection

 connection for 220AC input



Yconnection for 380AC input



Notes:

- The motor is suitable for continuous operation, intermittent operation, frequent start-stop, forward and reverse operation.
- When using a VFD to adjust motor speed, the frequency adjustment range should be within $\pm 20\%$ of motor rated frequency.
- Power supply voltage should be within $\pm 10\%$ of motor work voltage.
- Working environment temperature: $-20\text{ }^{\circ}\text{C}$ - $+40\text{ }^{\circ}\text{C}$.
- Motor protection level IP65.

04

Locate unit

In order to process and maintain manufacturing tolerances, work piece pallets must be stopped and located in the processing station.

PN—Workpiece pallet inner guide

Suitable for workpiece pallet with low positioning accuracy requirements.

PX—Pin locate unit

Using the pins of locate unit and positioning bushings of workpiece pallet to precisely locate workpiece pallet.

PU—Lift and locate unit

Lift and locate unit can lift the workpiece pallet up to leave the conveyor medium, and precisely locate the workpiece pallet.

PU-L—Lift and locate unit

Lift and locate unit can lift the workpiece pallet up to leave the conveyor medium, and precisely locate the workpiece pallet.

PN Workpiece pallet inner guide

Suitable for workpiece pallet with low positioning accuracy requirements. The inner guide can be fitted with the groove guide of workpiece pallet to limit the workpiece pallet position.



Delivery notes

Scope of delivery:

PN Workpiece pallet inner guide
Assembly kit

Condition on delivery:

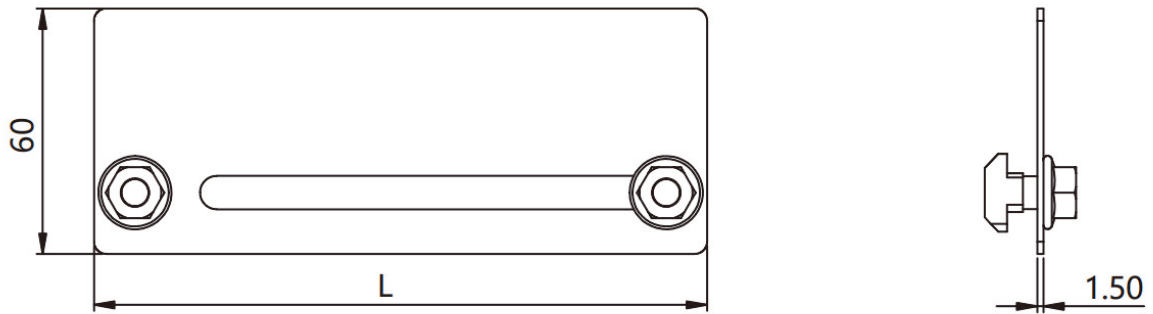
Not assembled

Recommended accessories:

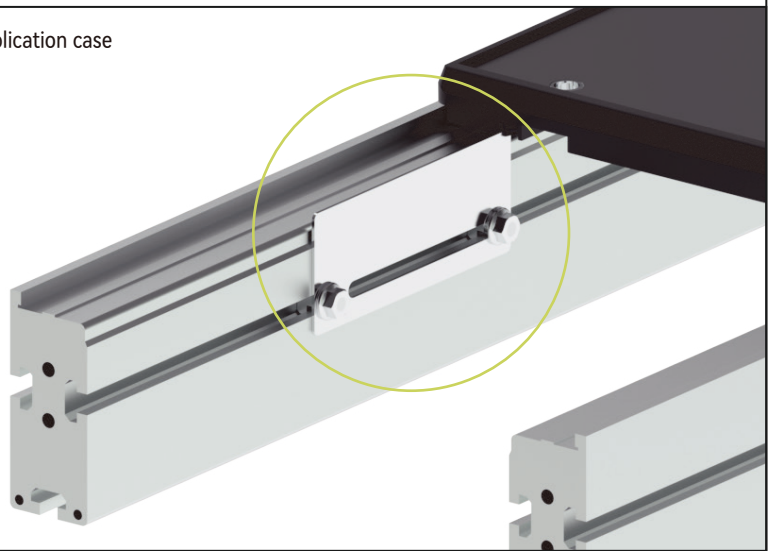
Stopper

- ▶ Installed on the inner side of conveyor section profile
- ▶ Repeat accuracy: $\pm 0.5\text{mm}$
- ▶ Material: Stainless steel
- ▶ Suitable for WA2 and WE2 workpiece pallet

PN - Dimensions



Application case



Ordering information

| | |
|----------------------------|---|
| PN | Locate unit type: PN workpiece pallet inner guide |
| L <input type="checkbox"/> | Length(mm): 45 / 150 / 300 / 450 / 600 |

Selection guidelines:

The inner guide length should be equal or close to workpiece length.

150mm inner guide is suitable for Lwt160 workpiece pallet.

300mm inner guide is suitable for Lwt320 workpiece pallet.

450mm inner guide is suitable for Lwt400 workpiece pallet.

600mm inner guide is suitable for Lwt560 workpiece pallet.

While workpiece pallet length is over 640mm, one pair of 45mm inner guide can be used.

Ordering example

PN—L150

Locate unit type: PN

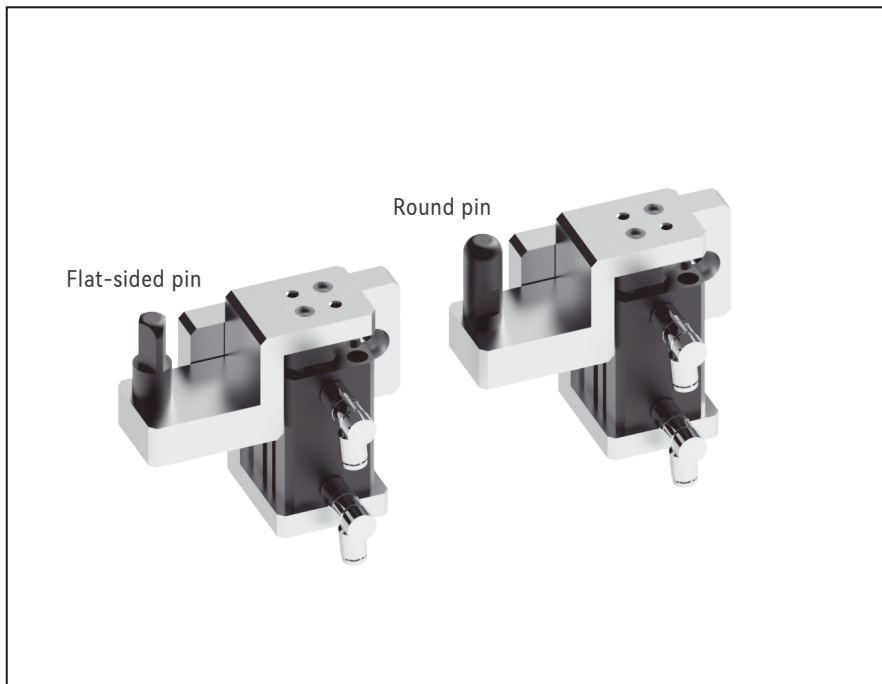
Length: 150

Repeat accuracy: ± 0.5

Material: Stainless steel

PX Pin locate unit

Using the pins of locate unit and positioning bushings of workpiece pallet to precisely locate workpiece pallet.



Delivery notes

Scope of delivery:

Pin locate unit(1 pair)

Assembly kit

Throttle value(ϕ 6)

Magnetic switches: Two wires type

(No need to distinguish PNP or NPN)

*Note: Magnetic switches includes 500mm cable, without connector.

Condition on delivery:

Fully assembled

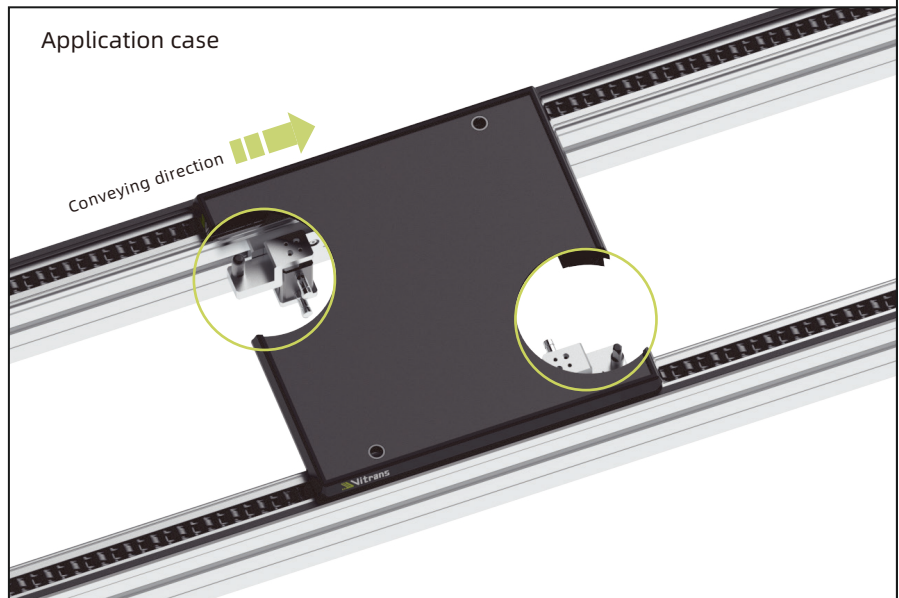
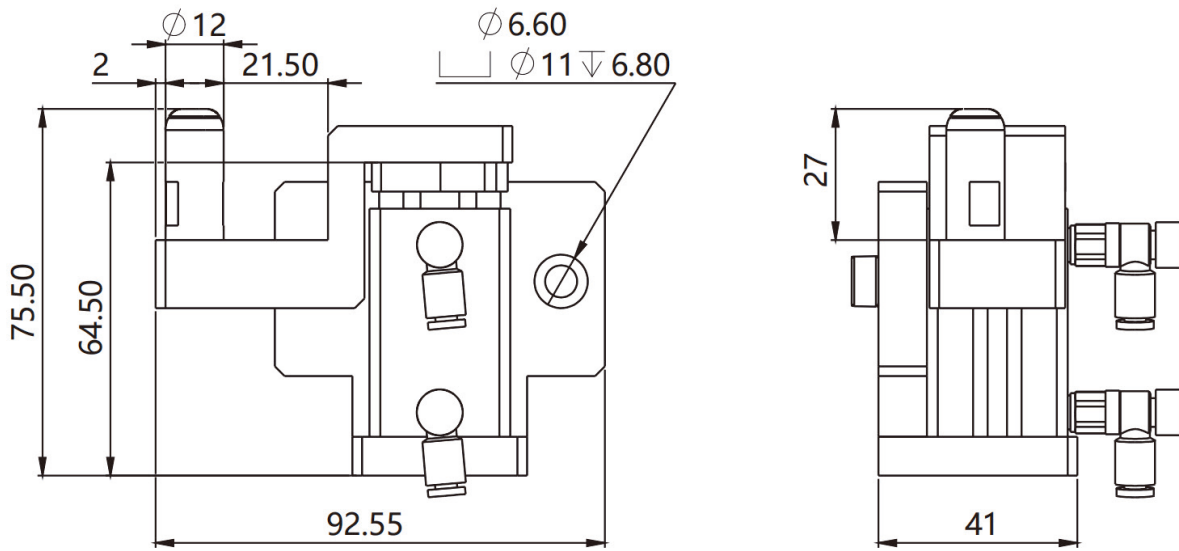
Recommended accessories:

Stopper

Two-position five-way dual electronic control solenoid valve

- ▶ Pin locate unit cannot lift workpiece pallet up
- ▶ Pin locate unit is used in pair
- ▶ Can be installed on the conveyor of lifter
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Locate accuracy: $\pm 0.1\text{mm}$

PX - Dimensions



Ordering information

| | |
|--------------------------|--|
| PX | Locate unit type: PX pin locate unit |
| <input type="checkbox"/> | Adapted conveyor type: BC2 / AC2 / PC2 |
| <input type="checkbox"/> | Cylinder brand: S |

Note: While adapted conveyor type is BC2, pin locate unit can also be used on FC2 conveyor.

Ordering example

PX—BC2—S

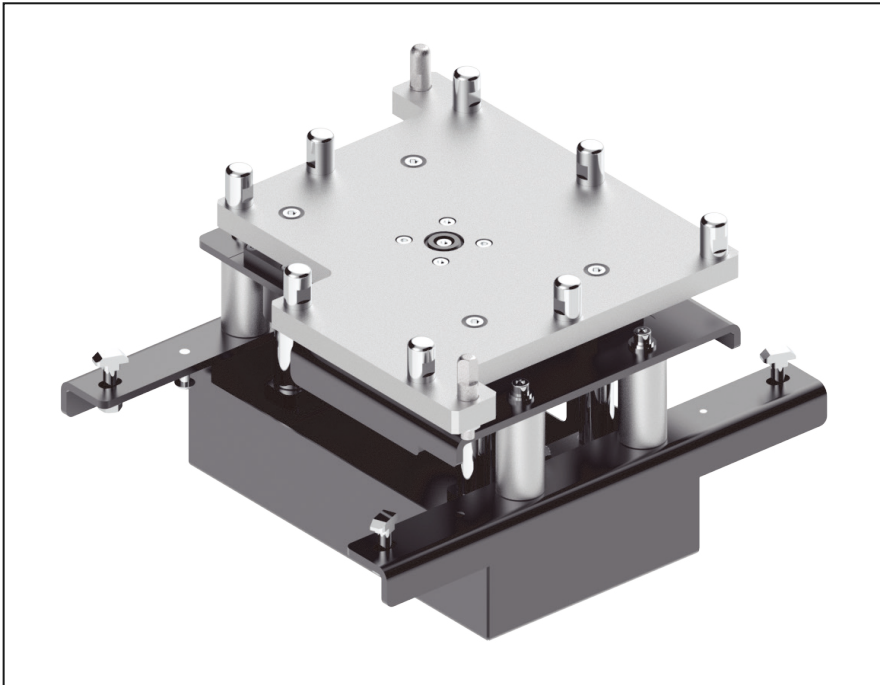
Locate unit type: PX

Adapted conveyor type: BC2

Cylinder brand: S

PU Lift and locate unit

Lift and locate unit can lift the workpiece pallet up to leave the conveyor medium, and precisely locate the workpiece pallet.



Delivery notes

Scope of delivery

Lift and locate unit

Protective housing

Throttle valve($\phi 6$)

Magnetic switches: Two wires type

(No need to distinguish PNP or NPN)

*Note: Magnetic switches includes 500mm cable, without connector.

Assembly kit

Condition on delivery:

Fully assembled

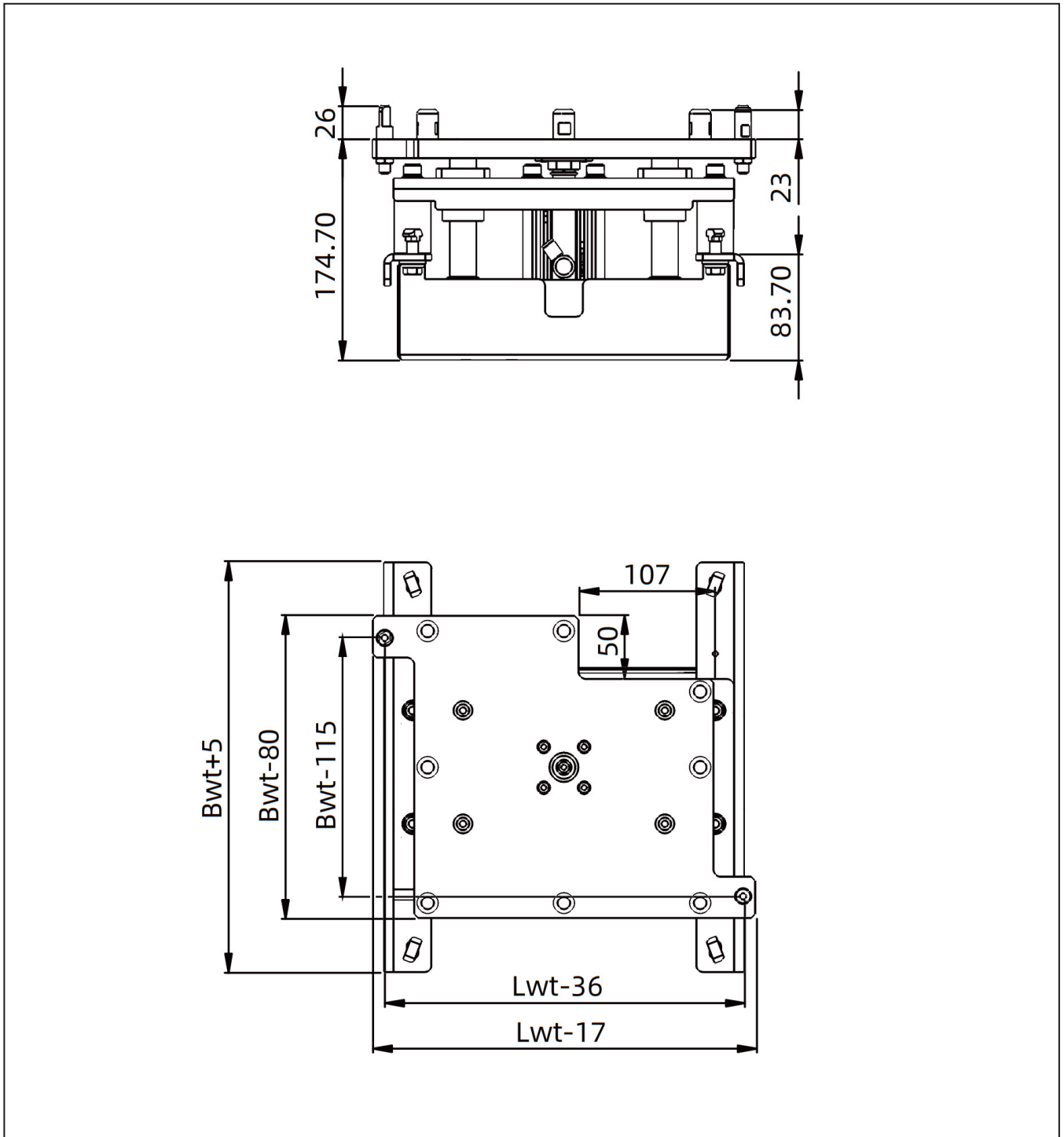
Recommended accessories:

Stopper

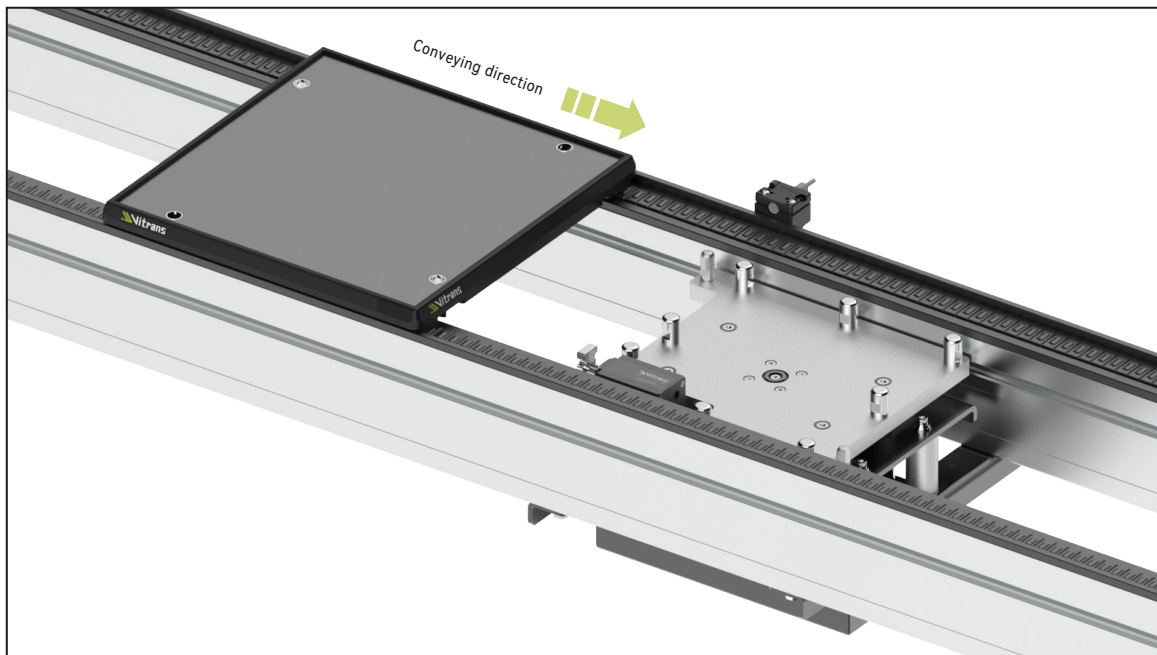
Two-position five-way dual electronic control solenoid valve

- ▶ Permitted maximum load: 30kg(Support customization)
- ▶ Repeat accuracy: $\pm 0.1\text{mm}$
- ▶ Lift height(above conveying level): 2.5mm(Support customization)
- ▶ Suitable for WA2 or WE2 workpiece pallet size $\leq 640 \times 640\text{mm}$

PU - Dimensions



PU - Application



Technical data

| | | |
|------------------------------|---------|-----------------------------------|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640 |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640 |
| Combination options(mm) | BwtxLwt | 160 x 160、240、320 |
| | | 240 x 160、240、320、400、480 |
| | | 320 x 160、240、320、400、480、560、640 |
| | | 400 x 240、320、400、480、560、640 |
| | | 480 x 320、400、480、560、640 |
| | | 560 x 320、400、480、560、640 |
| 640 x 320、400、480、560、640 | | |
| Permitted maximum load(kg)* | | 30 |
| Cylinder bore diameter(mm)* | | 32 40 50 |
| Adapted conveyor type* | | BC2/AC2/PC2 |

Note 1: Lift cylinder bore diameter is designed according to the short edge length of workpiece pallet(Bwt or Lwt).

While short edge(Bwt or Lwt) length is less than 240mm, cylinder bore diameter is 32mm. While short edge(Bwt or Lwt) length is between 240mm to 320mm, cylinder bore diameter is 40mm. While short edge(Bwt or Lwt) length is more than 320mm(including 320mm), cylinder bore diameter is 50mm.

Note 2: While adapted conveyor type is BC2, lift and locate unit can also be used on FC2 conveyor.

Ordering information

| | |
|----------------------------|--|
| PU | Lift and locate unit: PU |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 /customized |
| L <input type="checkbox"/> | Workpiece pallet length: 160 / 240 / 320 / 400 / 480 / 560 / 640 /customized |
| <input type="checkbox"/> | Adapted conveyor type: BC2 / PC2 / AC2 |
| <input type="checkbox"/> | Cylinder brand: S |
| SP | Special requirements: a.Customized load b.Customized lift height |

Note: While adapted conveyor type is BC2, lift and locate unit can also be used on FC2 conveyor.

Ordering example

PU—B320—L320—BC2—S

Lift and locate unit: PU

Workpiece pallet width: Bwt=320

Workpiece pallet length: Lwt=320

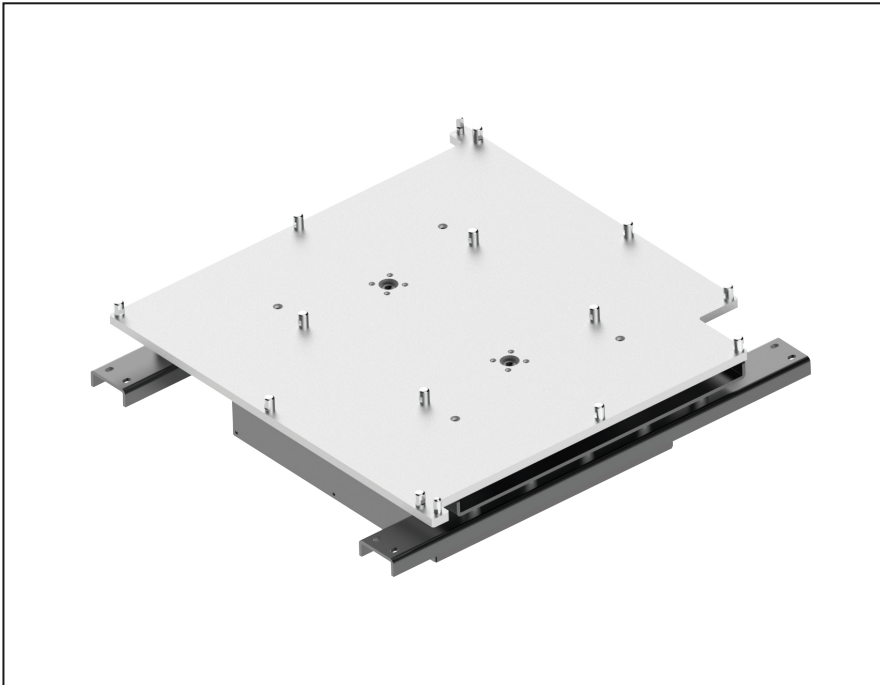
Adapted conveyor type: BC2

Cylinder brand: S

Special requirements: None

PU-L Lift and locate unit

Lift and locate unit can lift the workpiece pallet up to leave the conveyor medium, and precisely locate the workpiece pallet.



Delivery notes

Scope of delivery:

Lift and locate unit

Protective housing

Throttle valve($\phi 6$)

Magnetic switches: Two wires type

(No need to distinguish PNP or NPN)

**Note: Magnetic switches includes 500mm cable, without connector.*

Assembly kit

Condition on delivery:

Fully assembled

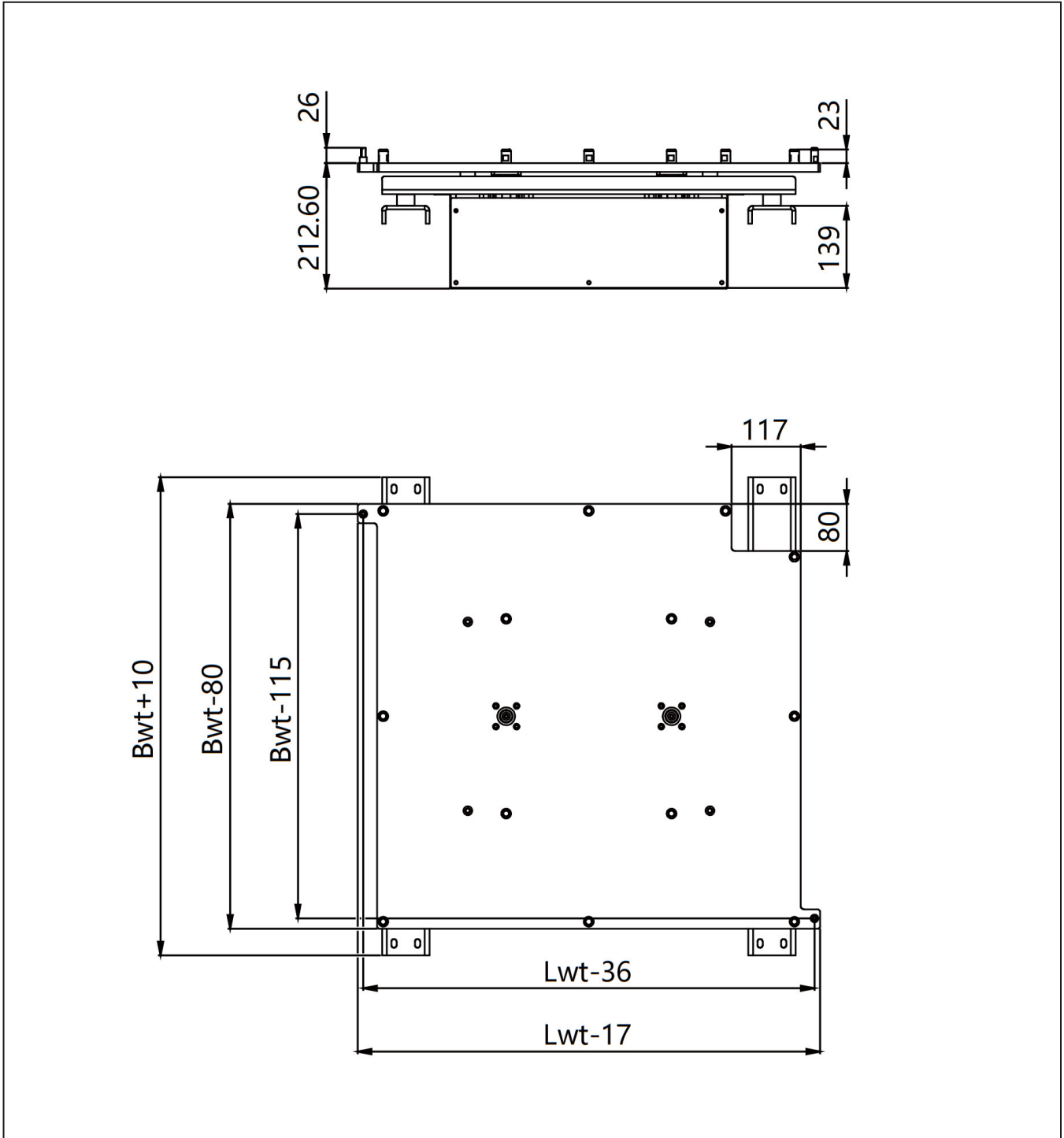
Recommended accessories:

Stopper

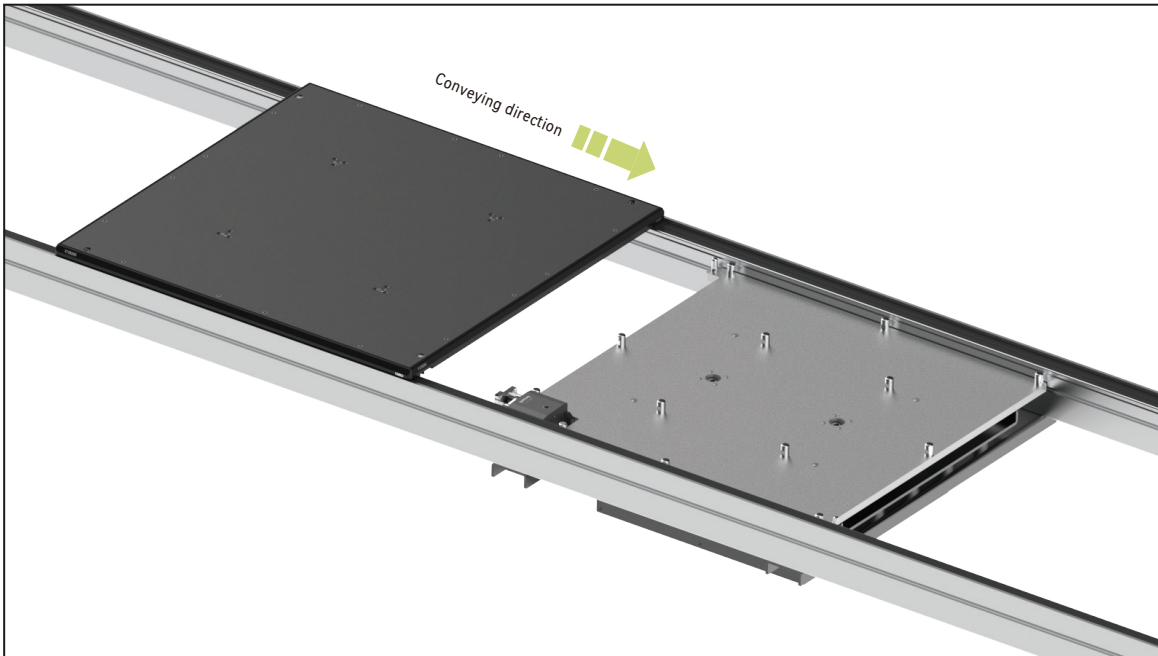
Two-position five-way dual electronic control solenoid valve

- ▶ Permitted maximum load: 50kg(Support customization)
- ▶ Repeat accuracy: $\pm 0.1\text{mm}$
- ▶ Lift height(above conveying level): 2.5mm(Support customization)
- ▶ Suitable for WA2 or WE2 workpiece pallet size $> 640 \times 640\text{mm}$

PU-L - Dimensions



PU-L - Application



Technical data

| | | |
|-------------------------------------|---------|-----------------------------|
| Workpiece pallet width(mm)* | Bwt | 640,720,800,1040,1200 |
| Workpiece pallet length(mm)* | Lwt | 640,720,800,1040,1200 |
| Combination options(mm) | BwtxLwt | 640 x 640、720、800、1040、1200 |
| | | 720 x 640、720、800、1040、1200 |
| | | 800 x 640、720、800、1040、1200 |
| | | 1040 x 720、800、1040、1200 |
| | | 1200 x 800、1040、1200 |
| Permitted maximum load(kg)* | | 50 |
| Cylinder bore diameter(mm)* | | 63 |
| Adapted conveyor type* | | BC2/AC2/PC2 |

Note: While adapted conveyor type is BC2, lift and locate unit can also be used on FC2 conveyor.

Ordering information

| | |
|----------------------------|---|
| PU-L | Lift and locate unit: PU-L |
| B <input type="checkbox"/> | Workpiece pallet width: 640 / 720 / 800 / 1040 / 1200 |
| L <input type="checkbox"/> | Workpiece pallet length: 640 / 720 / 800 / 1040 / 1200 |
| <input type="checkbox"/> | Adapted conveyor type: BC2 / AC2 / PC2 |
| <input type="checkbox"/> | Cylinder brand: S |
| SP | Special requirements: a.Customized load b.Customized lift height |

Note: While adapted conveyor type is BC2, lift and locate unit can also be used on FC2 conveyor.

Ordering example

PU-L—B800—L800—AC2—S

Lift and locate unit: PU-L

Workpiece pallet width: Bwt=800

Workpiece pallet length: Lwt=800

Adapted conveyor type: AC2

Cylinder brand: S

Special requirements: None

05

Lift and transfer unit

Lift and transfer unit is used to change the workpiece pallet direction of transport. They are used to create a branch in the workpiece pallet paths to the individual processing stations. The orientation of the workpiece pallet relative to its conveying direction changes when it is moved from longitudinal conveying to transverse conveying and vice versa.

ET2/S—Lift and transfer unit

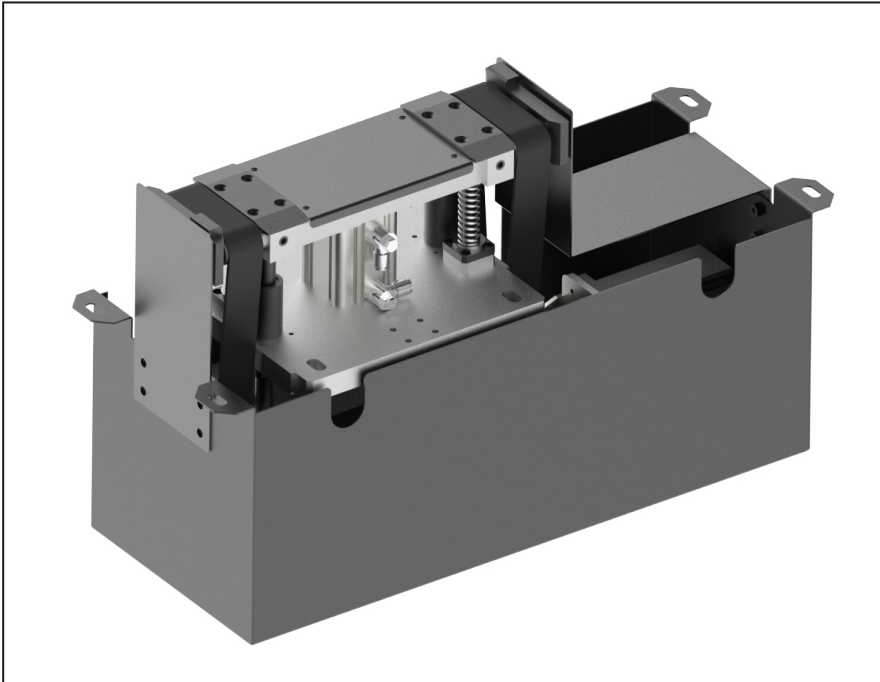
ET2/B—Lift and transfer unit

ET2/C—Lift and transfer unit

EG—Roller section

ET2/S Lift and transfer unit

ET2/S Lift and transfer unit has three lift positions. In the center position, the workpiece pallets are stopped by the guide profile of the lift and transfer unit.



Delivery notes

Scope of delivery:

Lift and transfer unit
 Stepper motor(Including I/O type stepper drive)
 Protective housing
 Throttle valve($\phi 6$)
 Magnetic switches: Two wires type
 (No need to distinguish PNP or NPN)
 *Note: Magnetic switches includes 500mm
 cable, without connector.

Condition on delivery:

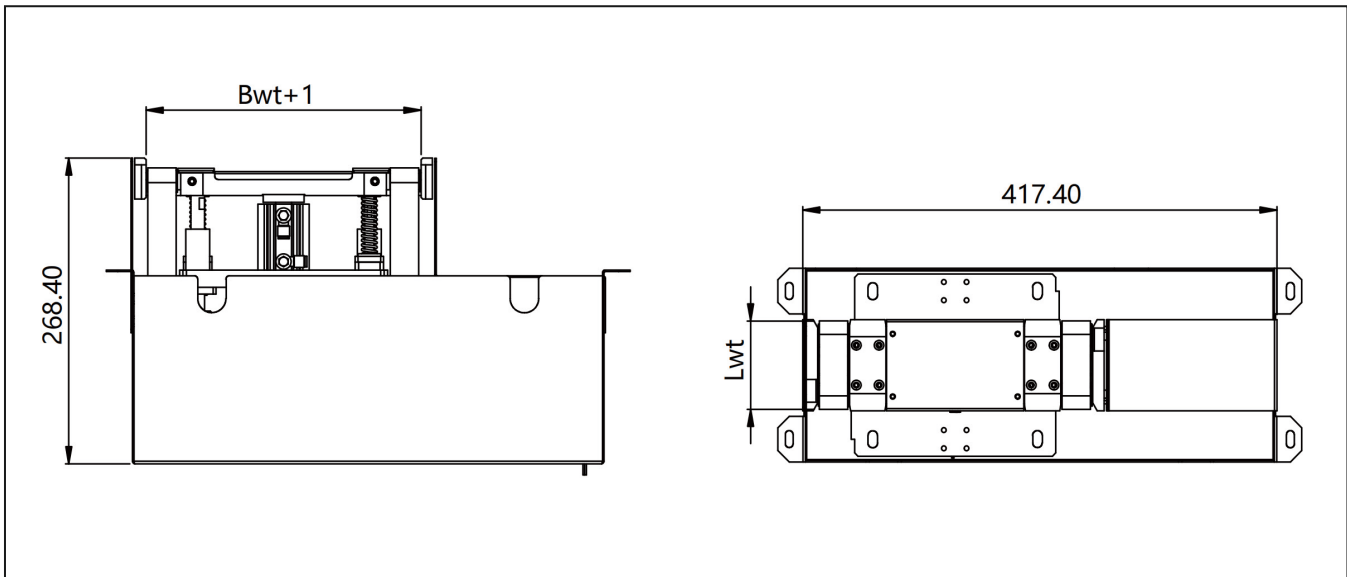
Fully assembled

Recommended accessories:

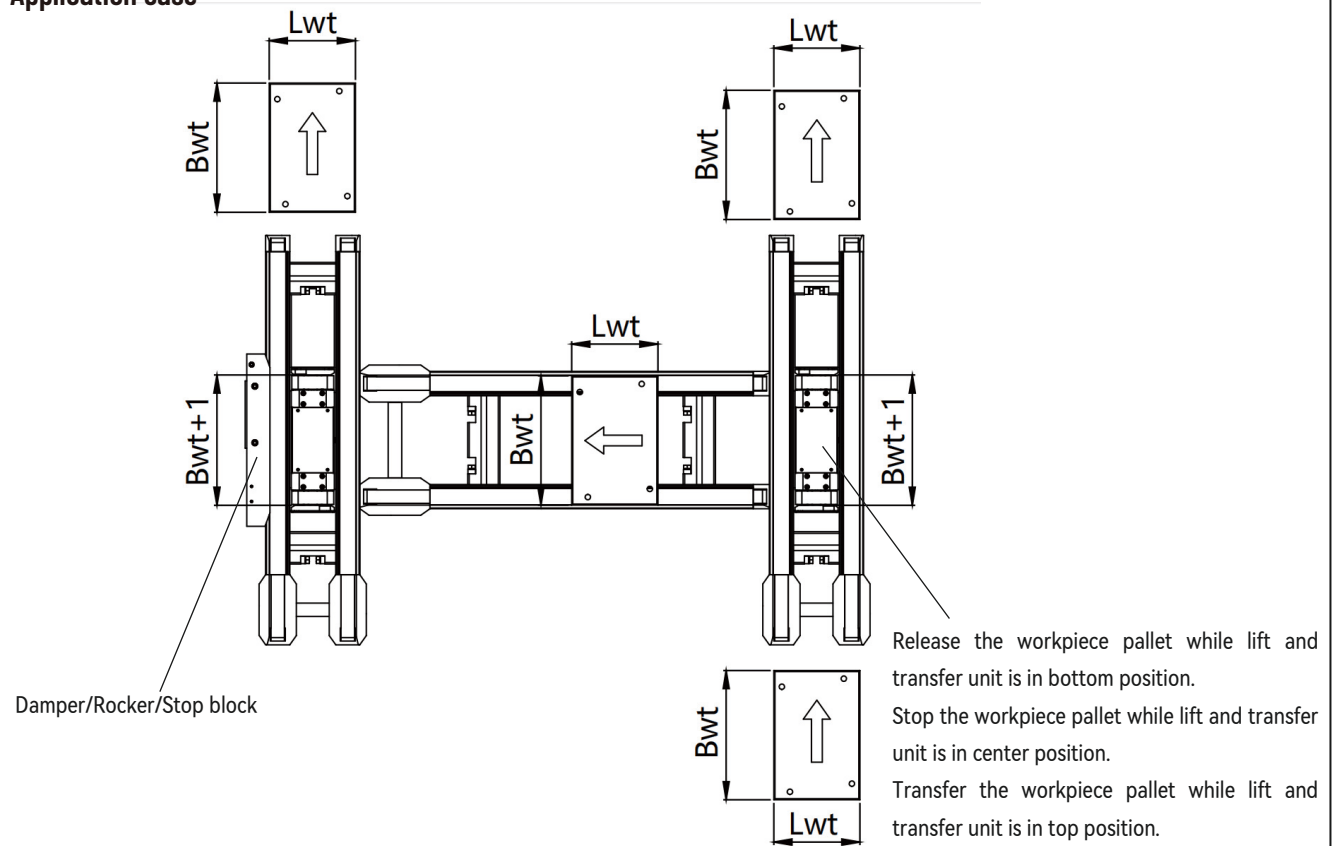
Damper or Rocker
 Three-position five-way medium release
 solenoid valve(Necessary)

- ▶ Reversible operation possible
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Suitable for workpiece pallet size 160×160mm, 240×160mm, 320×160mm

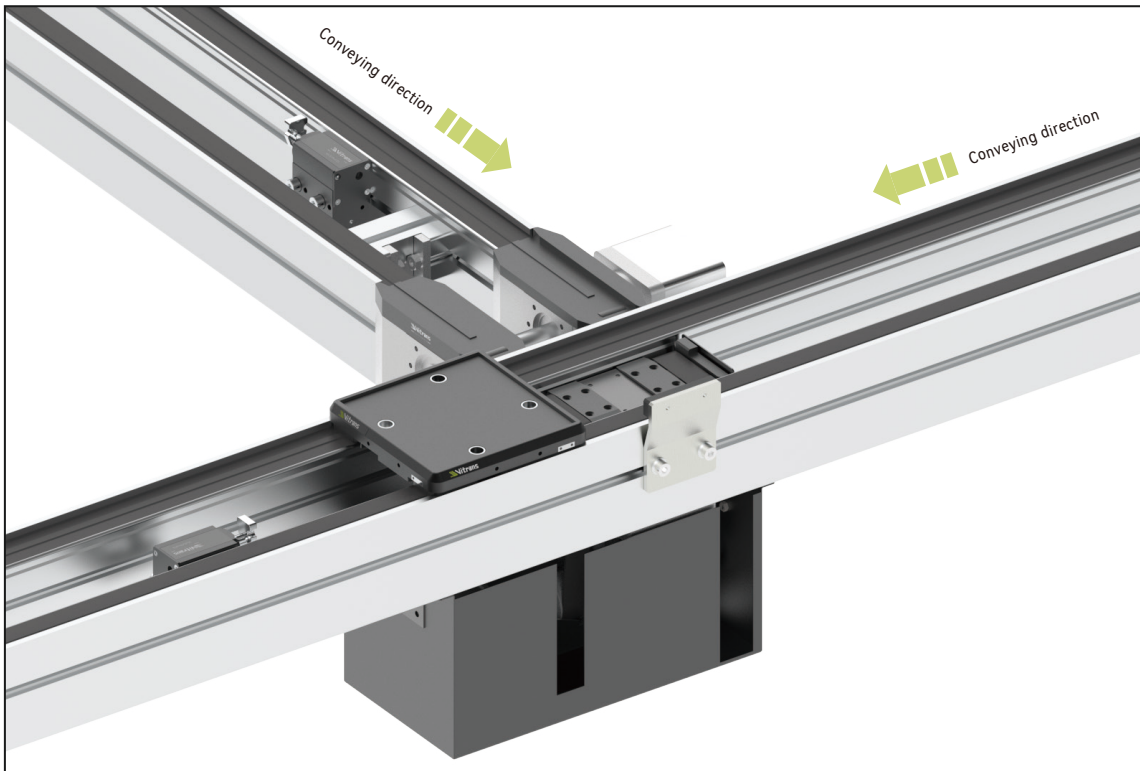
ET2/S - Dimensions



Application case



ET2/S - Application



Technical data

| | | |
|----------------------------------|---------|---------------|
| Conveyor medium* | | Timing belt |
| Workpiece pallet width(mm)* | Bwt | 160,240,320 |
| Workpiece pallet length(mm)* | Lwt | 160 |
| Combination options(mm) | BwtxLwt | 160 x 160 |
| | | 240 x 160 |
| | | 320 x 160 |
| Lift cylinder bore diameter(mm)* | | 32 |
| Motor type* | | Stepper motor |
| Motor output torque(N·m)* | | 9.4 |
| Stepper drive* | | I/O Type |
| Working voltage* | U | 48V DC |
| Rated current* | | 3.8A |
| Permitted maximum load* | | 30kg |
| Lift height* | | 10mm |

Ordering information

| | |
|----------------------------|---|
| ET2/S | Lift and transfer type: ET2/S |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 |
| L <input type="checkbox"/> | Workpiece pallet length: 160 |
| <input type="checkbox"/> | Adapted conveyor type: BC2 / PC2 / AC2 |
| <input type="checkbox"/> | Motor type: MZ(Default brand) |
| <input type="checkbox"/> | Cylinder brand: S |
| SP | Special requirements: a.Special workpiece pallet size |

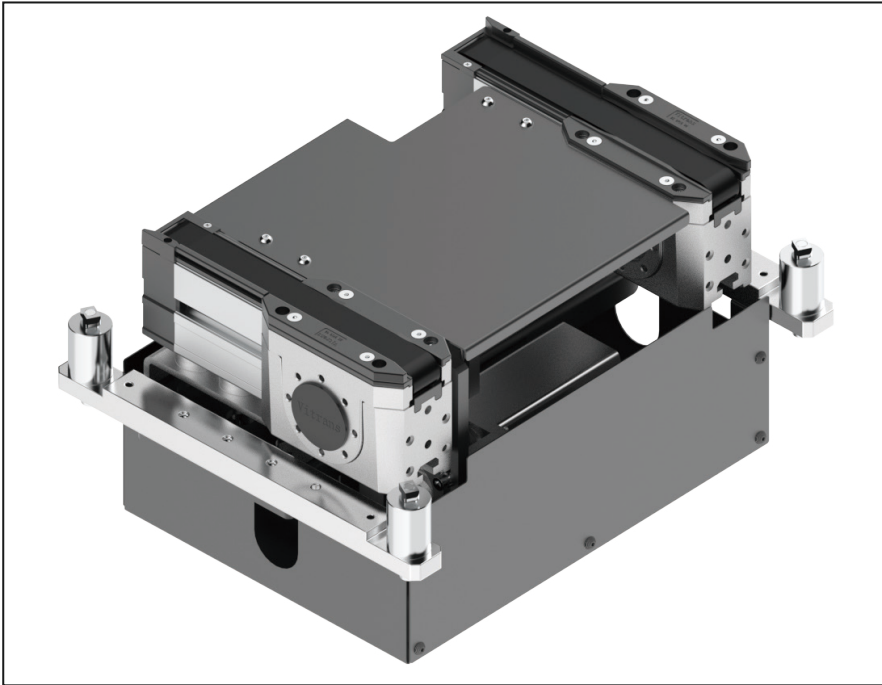
Note : While adapted conveyor type is BC2, lift and transfer unit can also be used on FC2 conveyor.

Ordering example

ET2/S—B160—L160—BC2—MZ—S

| | | | |
|-------------------------------|---------------------------------|----------------------------------|----------------------------|
| Lift and transfer type: ET2/S | Workpiece pallet width: Bwt=160 | Workpiece pallet length: Lwt=160 | Adapted conveyor type: BC2 |
| Motor type: MZ | Cylinder brand: S | Special requirements: None | |

ET2/B Lift and transfer unit



- ▶ Reversible operation possible
- ▶ Compact design with built-in stepper motor
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Suitable for workpiece pallet length Lwt which is not less than 240mm.
- ▶ ET2/B lift and transfer unit cannot stop pallet, it must be used with stopper.
- ▶ Permitted maximum load: 30kg; permitted maximum surface load: 1 kg/cm

Delivery notes

Scope of delivery

Lift and transfer unit
 Stepper motor(Including I/O type stepper drive)
 Protective housing
 Throttle valve($\phi 6$)
 Magnetic switches: Two wires type
 (No need to distinguish PNP or NPN)
 *Note: Magnetic switches includes 500mm cable, without connector.

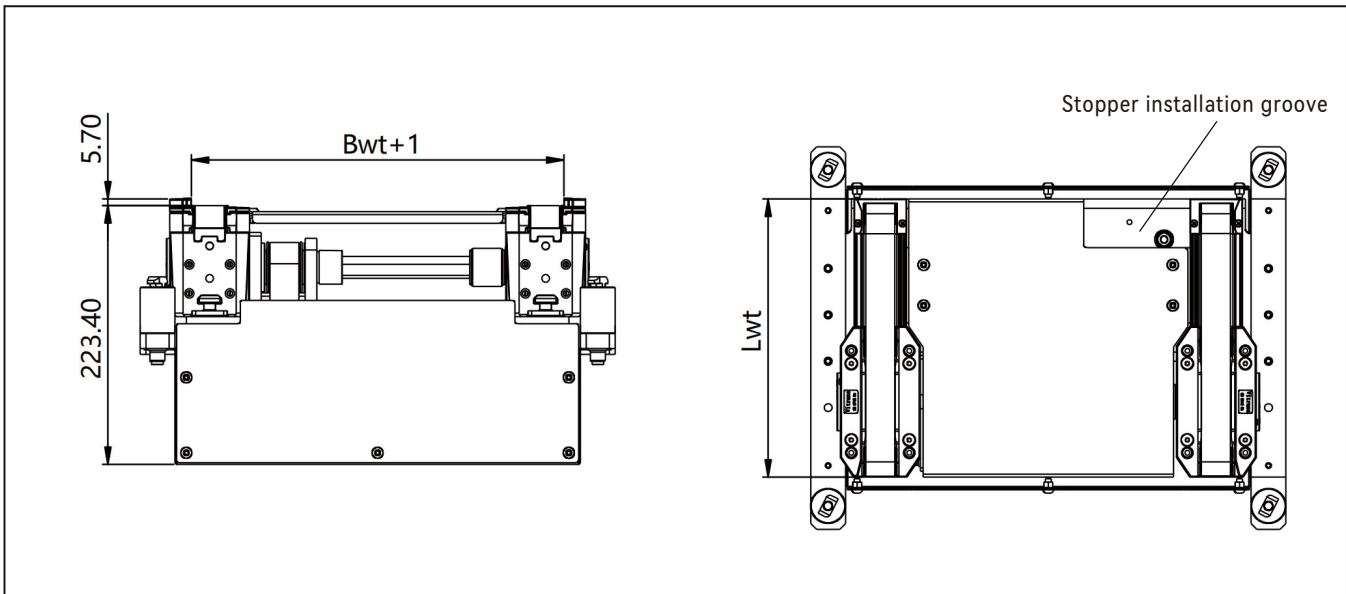
Condition on delivery:

Fully assembled

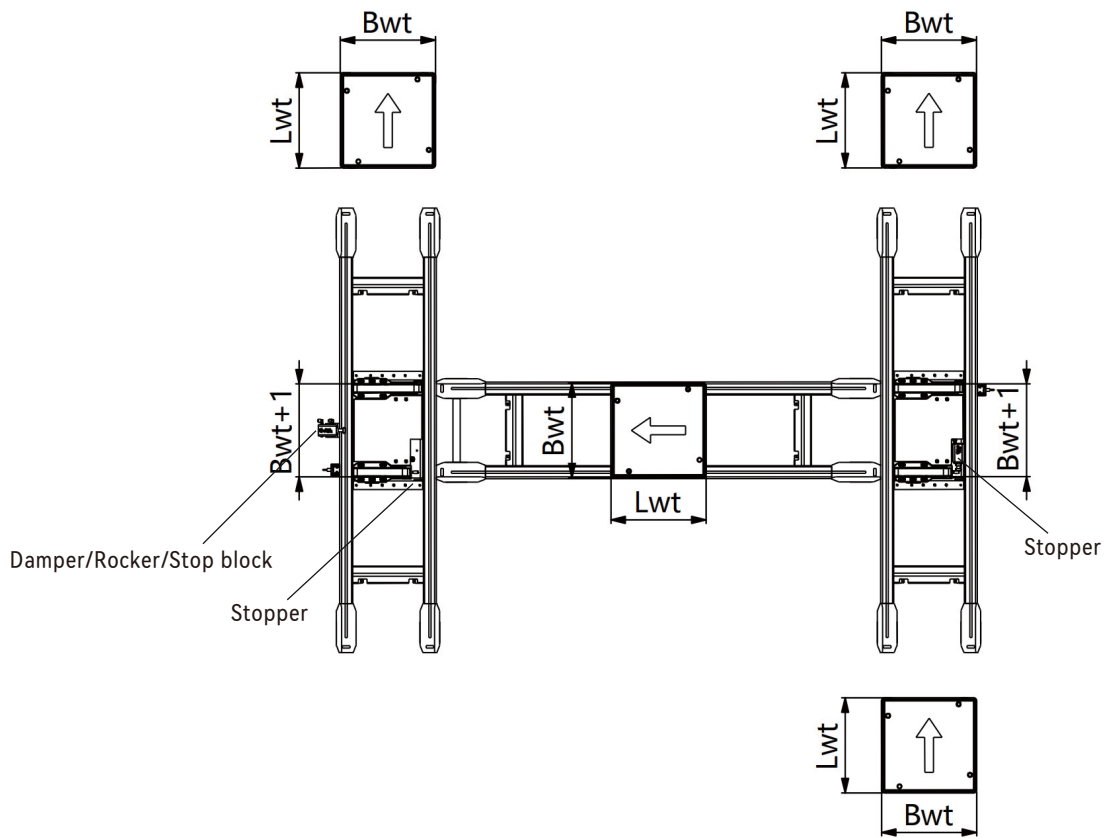
Recommended accessories:

Stop block
 Rocker
 Damper
 Dampened stopper
 Proximity sensor bracket
 Roller section
 Two-position five-way dual electronic control solenoid valve

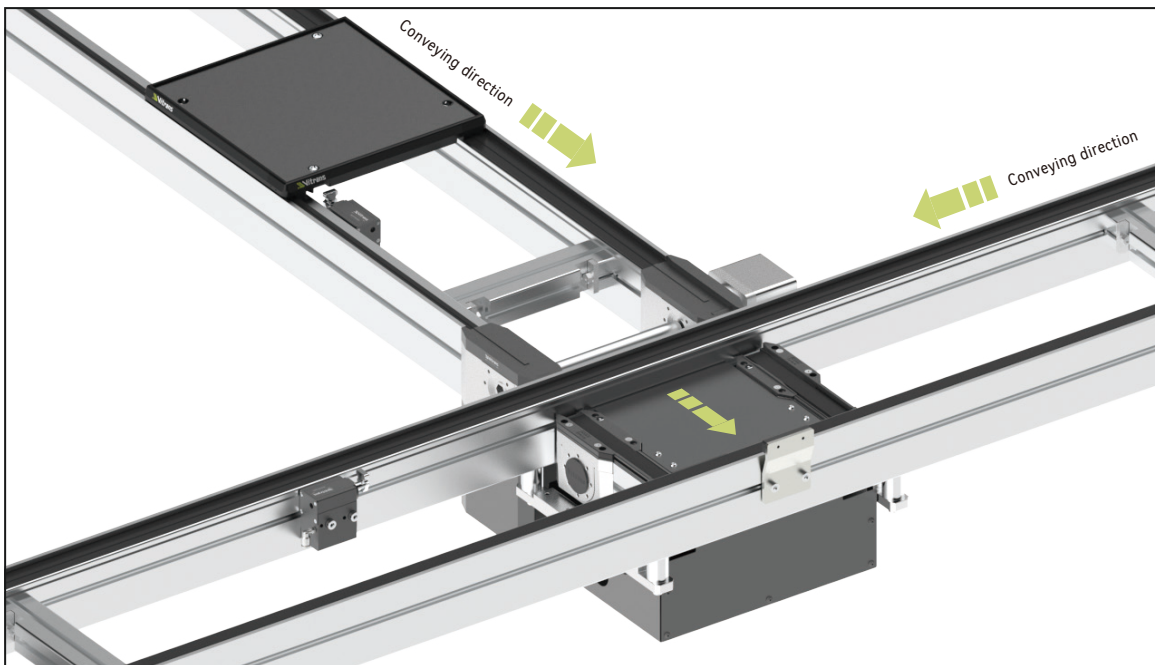
ET2/B - Dimensions



Application case



ET2/B - Application



Technical data

| | | |
|---|---------|-------------------------------|
| Conveyor medium* | | Timing belt |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640 |
| Workpiece pallet length(mm)* | Lwt | 240,320,400,480,560,640 |
| Combination options(mm) | BwtxLwt | 160 x 240、320 |
| | | 240 x 240、320、400、480 |
| | | 320 x 240、320、400、480、560、640 |
| | | 400 x 240、320、400、480、560、640 |
| | | 480 x 240、320、400、480、560、640 |
| | | 560 x 320、400、480、560、640 |
| Lift cylinder bore diameter(mm)* | | 40 50 |
| Motor type* | | Stepper motor |
| Stepper drive* | | I/O Type |
| Working voltage* | U | 48V DC |
| Rated current* | | 3.8A |
| Permitted maximum load* | | 30kg |
| Lift height* | | 10mm |

Note: Lift cylinder bore diameter is designed according to workpiece pallet length Lwt. While Lwt > 240mm, cylinder bore diameter is 50mm.

Ordering information

| | |
|----------------------------|--|
| ET2/B | Lift and transfer type: ET2/B |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 |
| L <input type="checkbox"/> | Workpiece pallet length: 240 / 320 / 400 / 480 / 560 / 640 |
| <input type="checkbox"/> | Adapted conveyor type: BC2 / PC2 / AC2 |
| <input type="checkbox"/> | Motor type: MZ(Default brand) |
| <input type="checkbox"/> | Cylinder brand: S |
| SP | Special requirements: a.Customized load b.Special workpiece pallet size |

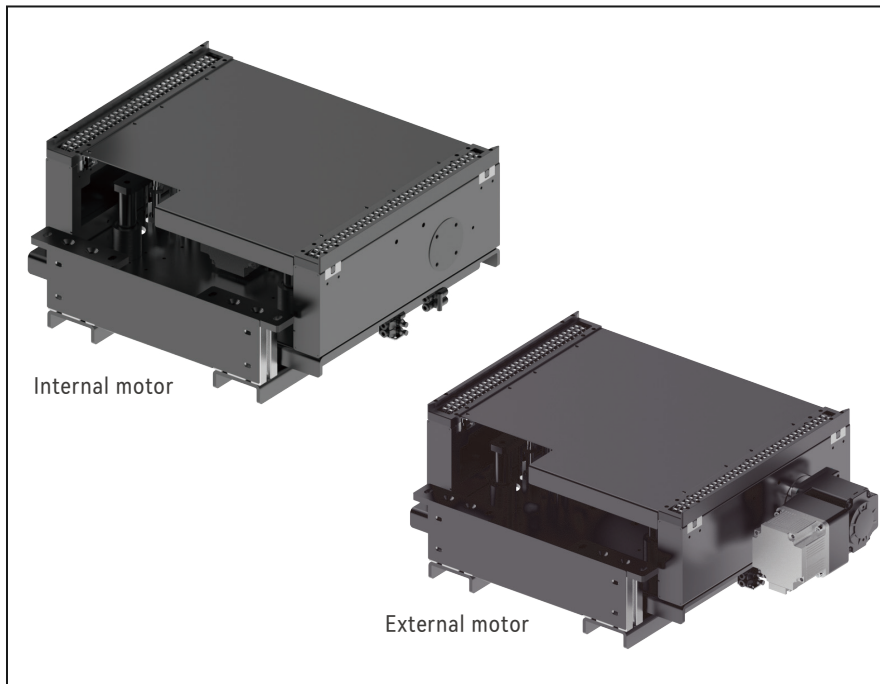
Note: While adapted conveyor type is BC2, lift and transfer unit can also be used on FC2 conveyor.

Ordering example

ET2/B—B320—L320—BC2—MZ—S

| | | | |
|-------------------------------|---------------------------------|----------------------------------|----------------------------|
| Lift and transfer type: ET2/B | Workpiece pallet width: Bwt=320 | Workpiece pallet length: Lwt=320 | Adapted conveyor type: BC2 |
| Motor type: MZ | Cylinder brand: S | Special requirements: None | |

ET2/C Lift and transfer unit



- ▶ Reversible operation possible
- ▶ Compact and modular design
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Suitable for workpiece pallet length Lwt which is not less than 240mm.
- ▶ ET2/C lift and transfer unit cannot stop pallet, it must be used with stopper.

Delivery notes

Scope of delivery:

Lift and transfer unit
 Brushless motor(Including I/O type drive)
 Protective housing
 Throttle valve($\phi 6$)
 Magnetic switches: Two wires type
 (No need to distinguish PNP or NPN)
 *Note: Magnetic switches includes 500mm cable, without connector.

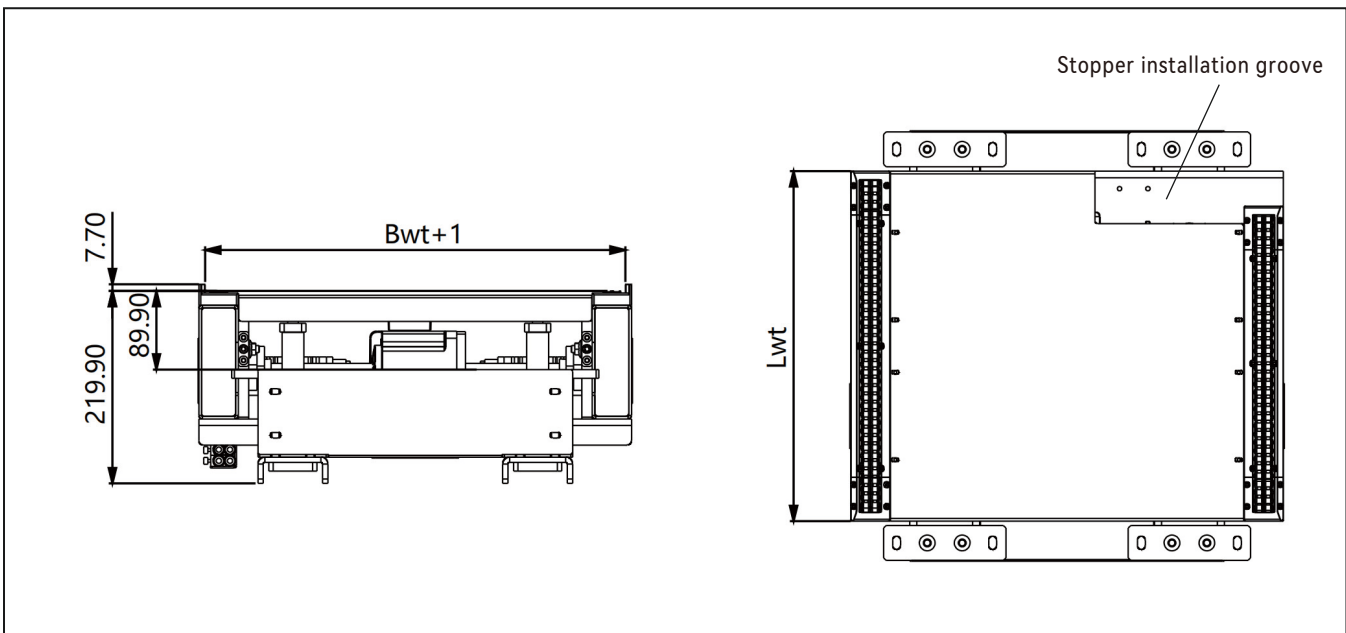
Condition on delivery:

Fully assembled

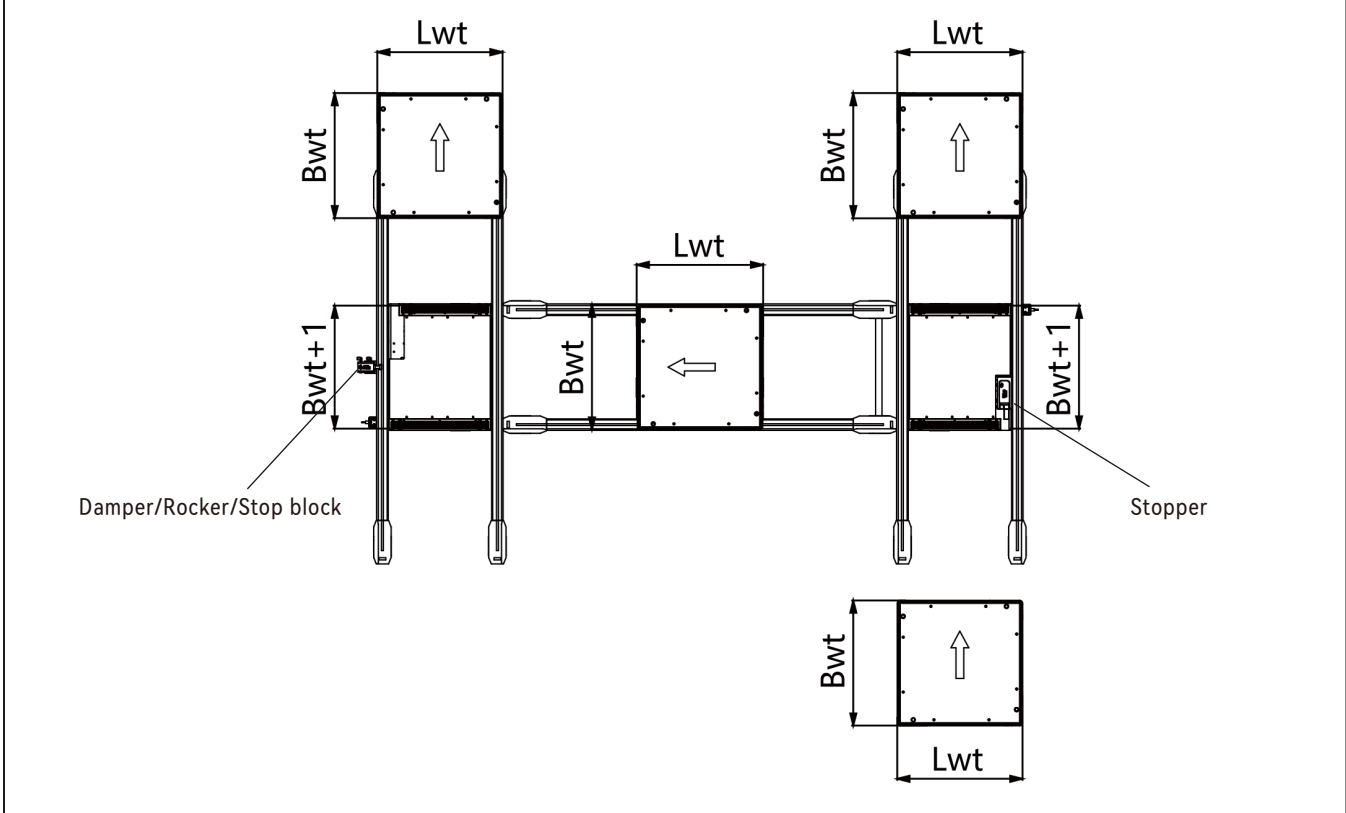
Recommended accessories:

Stop block
 Rocker
 Damper
 Dampened stopper
 Two-position five-way dual electronic control solenoid valve

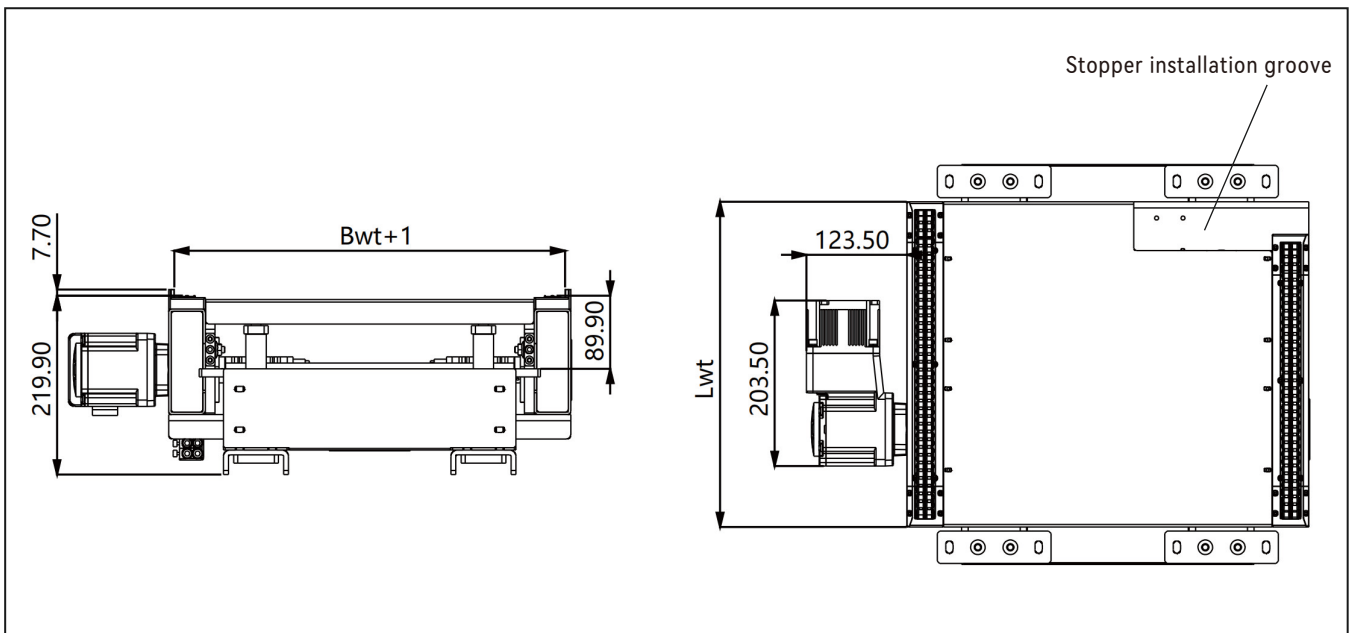
ET2/C (Internal motor) - Dimensions



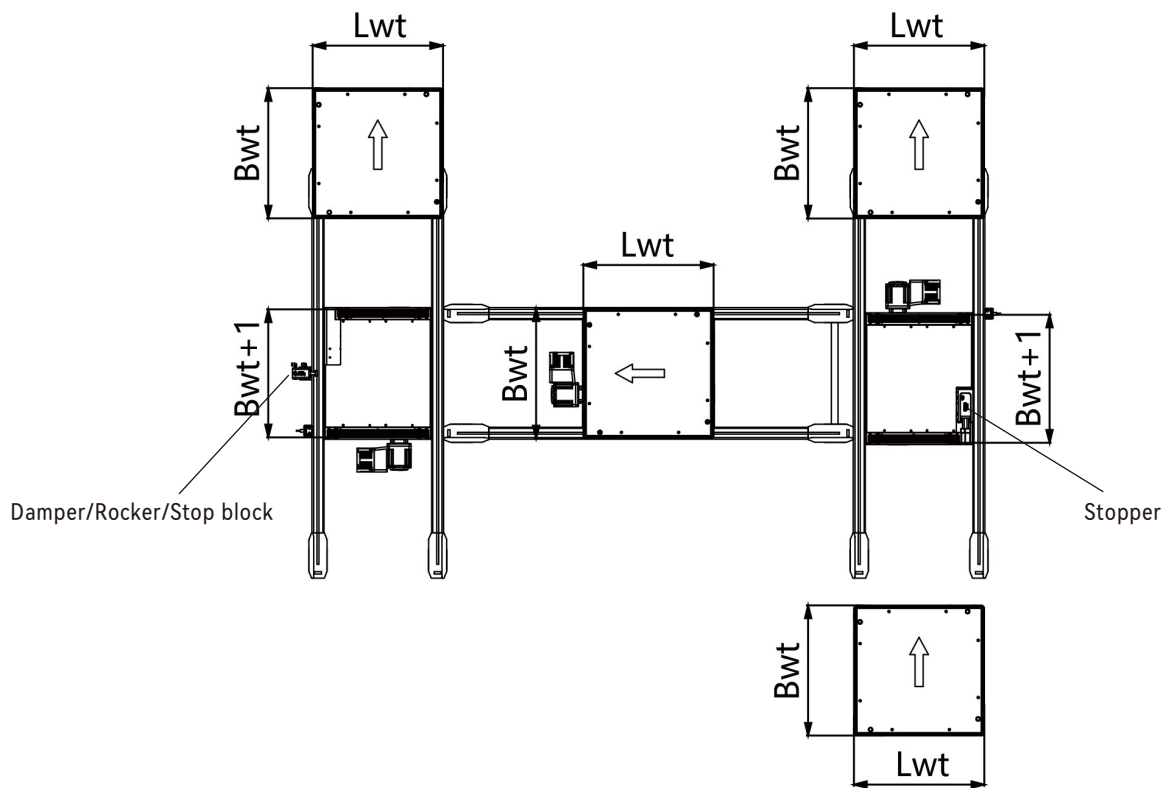
Application case



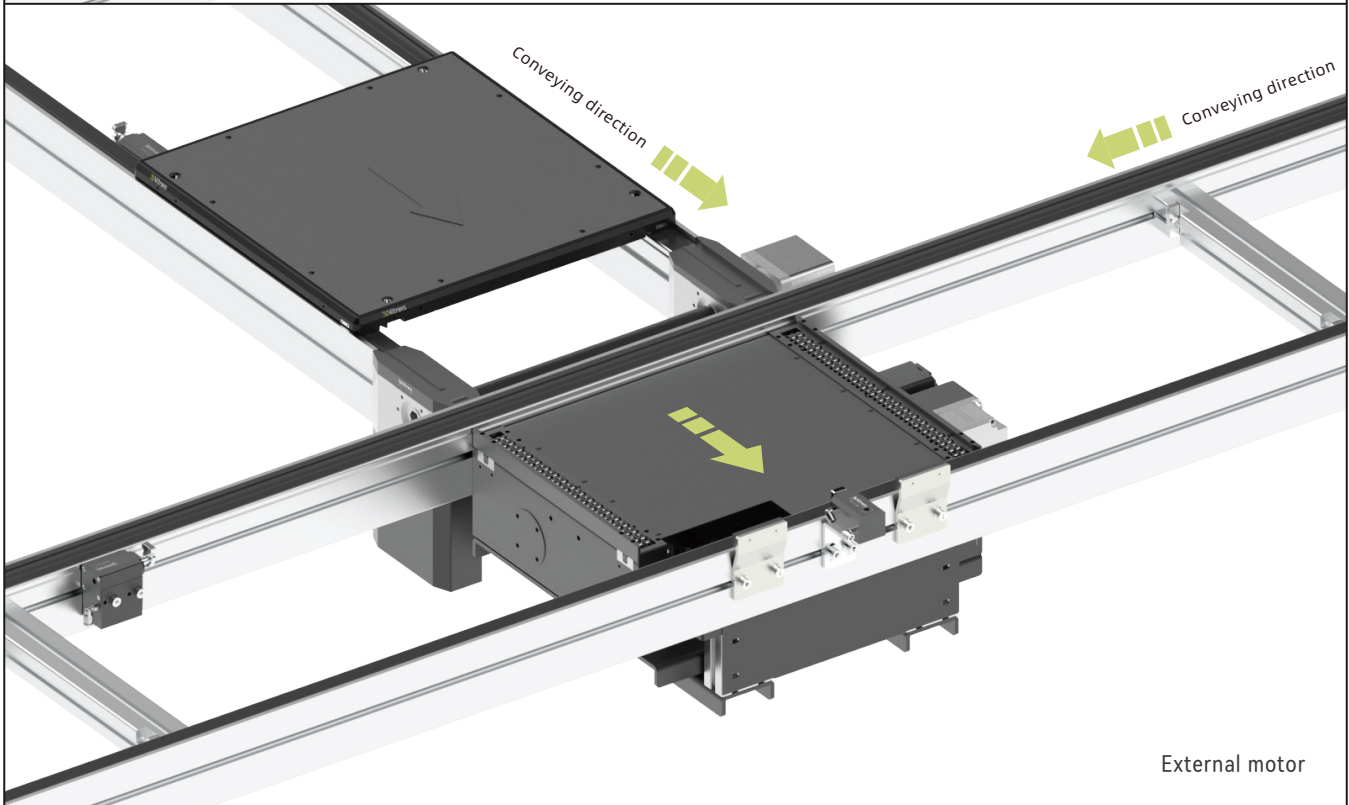
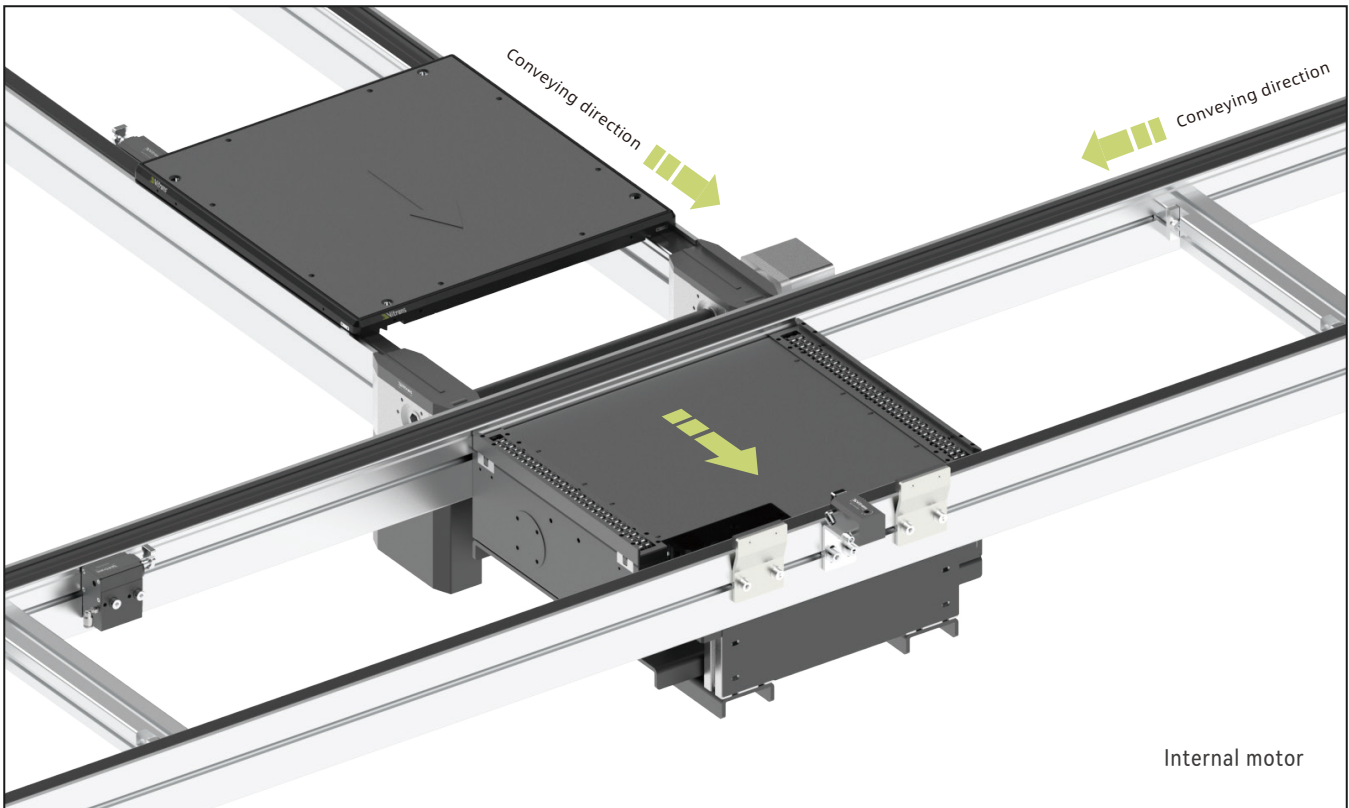
ET2/C (External motor) - Dimensions



Application case



ET2/C - Application



Technical data

| | | |
|---|---------|---|
| Conveyor medium* | | Double Chain |
| Workpiece pallet width(mm)* | Bwt | 320,400,480,560,640,700,800,1040,1200 |
| Workpiece pallet length(mm)* | Lwt | 320,400,480,560,640,700,800,1040,1200 |
| Combination options(mm) | BwtxLwt | 320 x 320、400、480、560、640 |
| | | 400 x 320、400、480、560、640、720、800 |
| | | 480 x 320、400、480、560、640、720、800 |
| | | 480 x 320、400、480、560、640、720、800 |
| | | 560 x 320、400、480、560、640、720、800 |
| | | 640 x 320、400、480、560、640、720、800 |
| | | 720 x 400、480、560、640、720、800 |
| 800 x 400、480、560、640、720、800 | | |
| Lift cylinder bore diameter(mm)* | | 63 |
| Permitted maximum load* | | 120kg |
| Motor type* | | Brushless motor(Including I/O type drive) |
| Motor mounting location* | | R(External), M(Internal) |
| Working voltage* | U | 220AC(Single phase) |
| Working frequency* | f | 50HZ |
| Motor connection* | AT | Terminal box |
| Permitted maximum surface load* | | 2kg/cm |
| Lift height* | | 10mm |

Note 1: Motor can only be mounted external while workpiece pallet width Bwt ≤ 400mm.

Note 2: ET2/C lift and transfer unit uses two pieces cylinders for lifting. When workpiece pallet size(Bwt or Lwt) is over 800mm, Four pieces cylinders should be used.

Ordering information

| | |
|----------------------------|---|
| ET2/C | Lift and transfer type: ET2/C |
| B <input type="checkbox"/> | Workpiece pallet width: 320 / 400 / 480 / 560 / 640 / 700 / 800 / 1040 / 1200 |
| L <input type="checkbox"/> | Workpiece pallet length: 320 / 400 / 480 / 560 / 640 / 700 / 800 / 1040 / 1200 |
| <input type="checkbox"/> | Adapted conveyor type: AC2 |
| <input type="checkbox"/> | Motor type: TBWS012SV22(Default brand) |
| <input type="checkbox"/> | Motor mounting location: R(External), M(Internal) |
| <input type="checkbox"/> | Cylinder brand: S |
| SP | Special requirements: a.Working voltage b.Working frequency c.Customized load d.Motor connection |

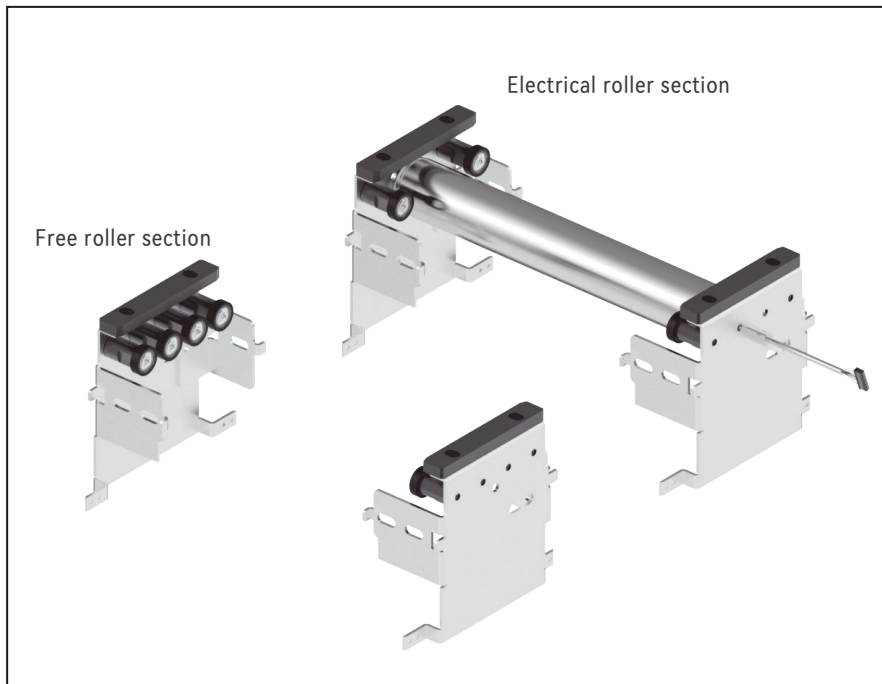
Ordering example

ET2/C—B480—L480—AC2—TBWS012SV22—R—S

| | | | |
|-------------------------------|--------------------------------------|----------------------------------|----------------------------|
| Lift and transfer type: ET2/C | Workpiece pallet width: Bwt=480 | Workpiece pallet length: Lwt=480 | Adapted conveyor type: AC2 |
| Motor type: TBWS012SV22 | Motor mounting location: R(External) | Cylinder brand: S | Special requirements: None |

EG Roller section

Roller section can hold and conveying workpiece pallet between two longitudinal conveyors with lift and transfer units.



Delivery notes

Scope of delivery:

Roller section
Assembly kit

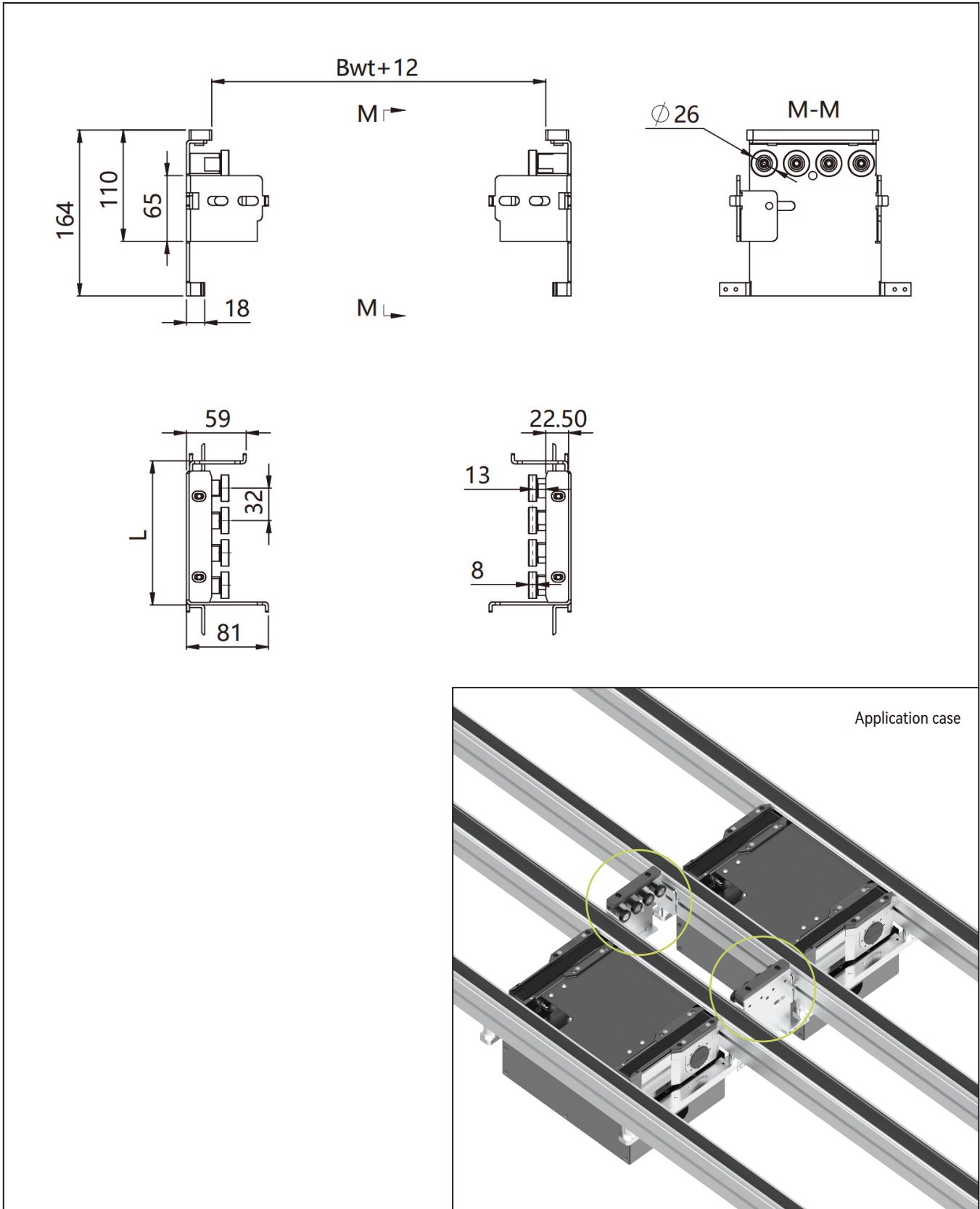
Condition on delivery:

Fully assembled

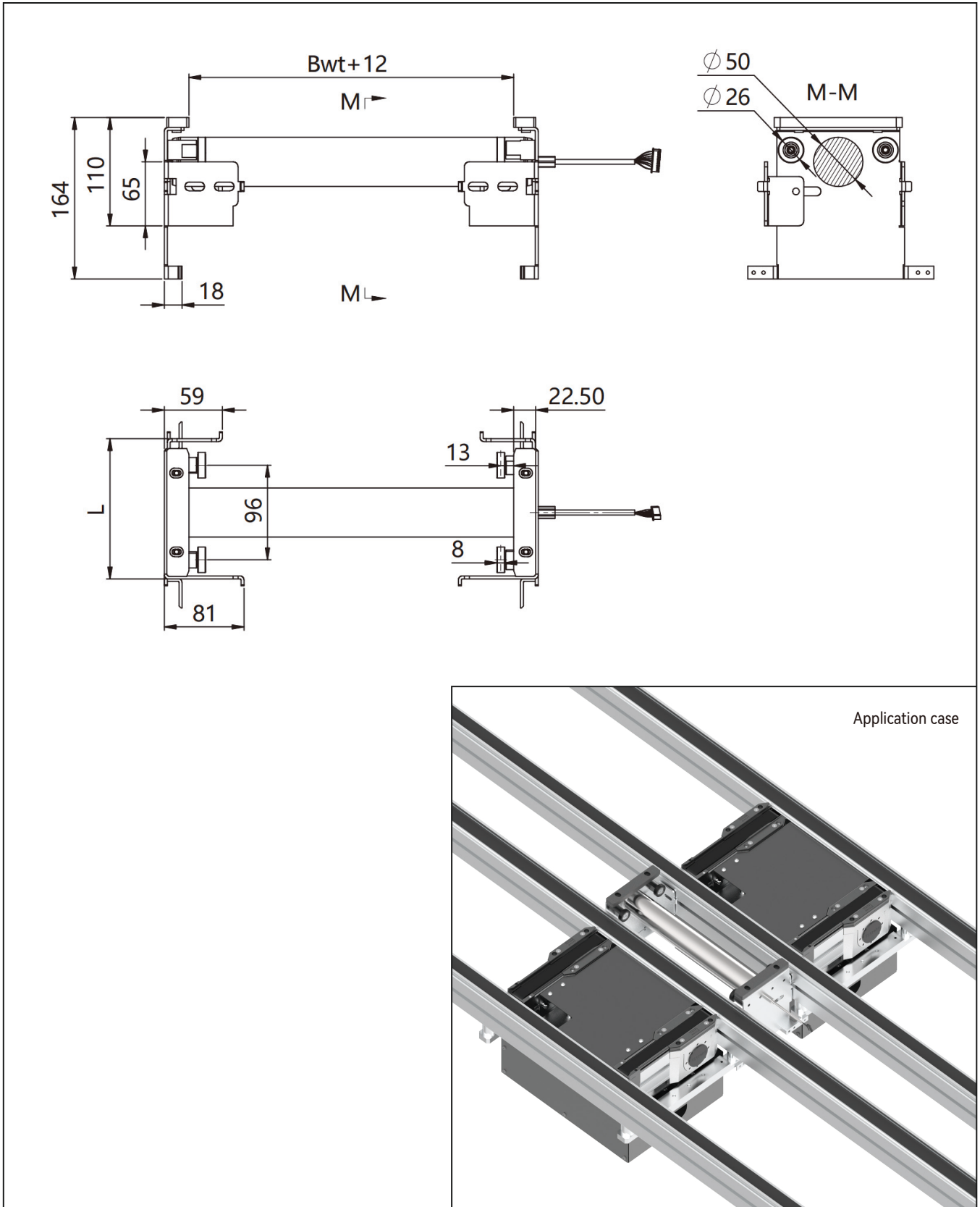
- ▶ Reversible operation possible
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Free roller section length options: 45mm, 90mm, 135mm or other customized length
- ▶ Electrical roller section length: Customized
- ▶ While the conveying distance is less than 1/3 workpiece pallet length, free roller section can be used.
Otherwise, a electrical roller section should be used.

Note: A PNP type drive card is included in the electrical roller section.

Free roller section - Dimensions



Electrical roller section - Dimensions



Technical data

| | | |
|-------------------------------------|-----|---|
| Conveyor medium* | | Roller |
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Permitted maximum load* | | 30KG |
| Speed* | | Adjustable range 3-20m/min(Electrical roller section) |
| Working voltage* | U | 24VDC,48VDC(Electrical roller section) |

Note: To use electrical roller section, the conveying distance L should longer than 60mm.

And the workpiece pallet width Bwt should not be less than 240mm.

Ordering information

| | |
|-----------------------------------|--|
| EG | Roller section: EG |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 / 800 / 1040 / 1200 |
| L <input type="checkbox"/> | Conveying distance: 45 / 90 / 135 / Customized |
| <input type="checkbox"/> | Type: N(Free roller) / DM(Electrical roller) |
| SP | Special requirements: a.Conveying medium b.Customized load |

Ordering example

EG—B240—L90—N

| | | | | |
|---------------------------|--|---------------------------------|----------------|-----------------------------------|
| Roller section: EG | Workpiece pallet width: Bwt=240 | Conveying distance: L=90 | Type: N | Special requirements: None |
|---------------------------|--|---------------------------------|----------------|-----------------------------------|

06

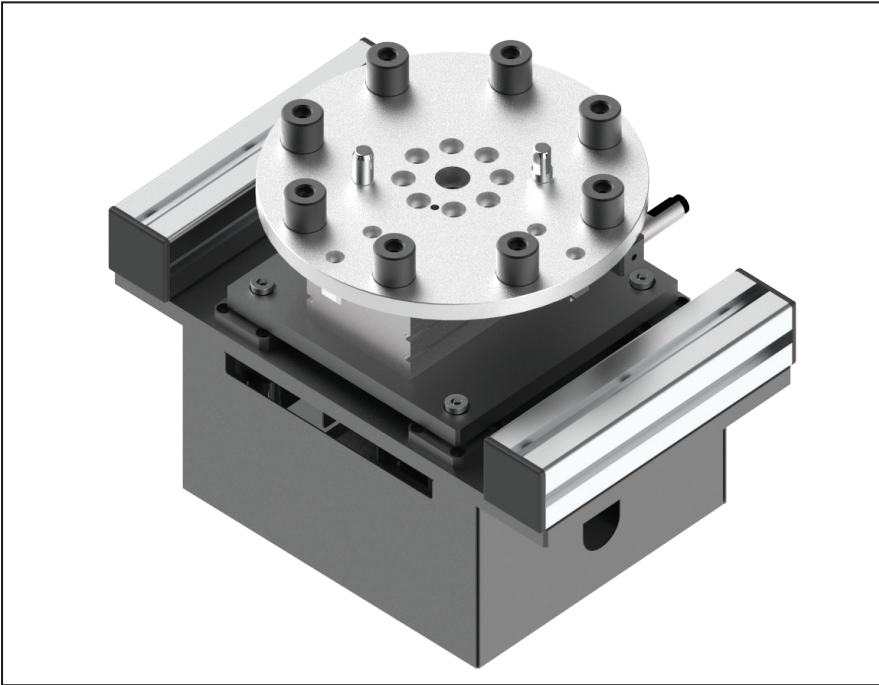
Lift and rotate unit

Lift and rotate unit turns workpiece pallets to the required orientation.

PR—Lift and rotate unit

PR-L—Lift and rotate unit

PR Lift and rotate unit



Delivery notes

Scope of delivery:

Lift and rotate unit
Protective housing
Assembly kit
Throttle valve($\phi 6$)
Magnetic switches: Two wires type
(No need to distinguish PNP or NPN)
**Note: Magnetic switches includes 500mm cable, without connector.*

Condition on delivery:

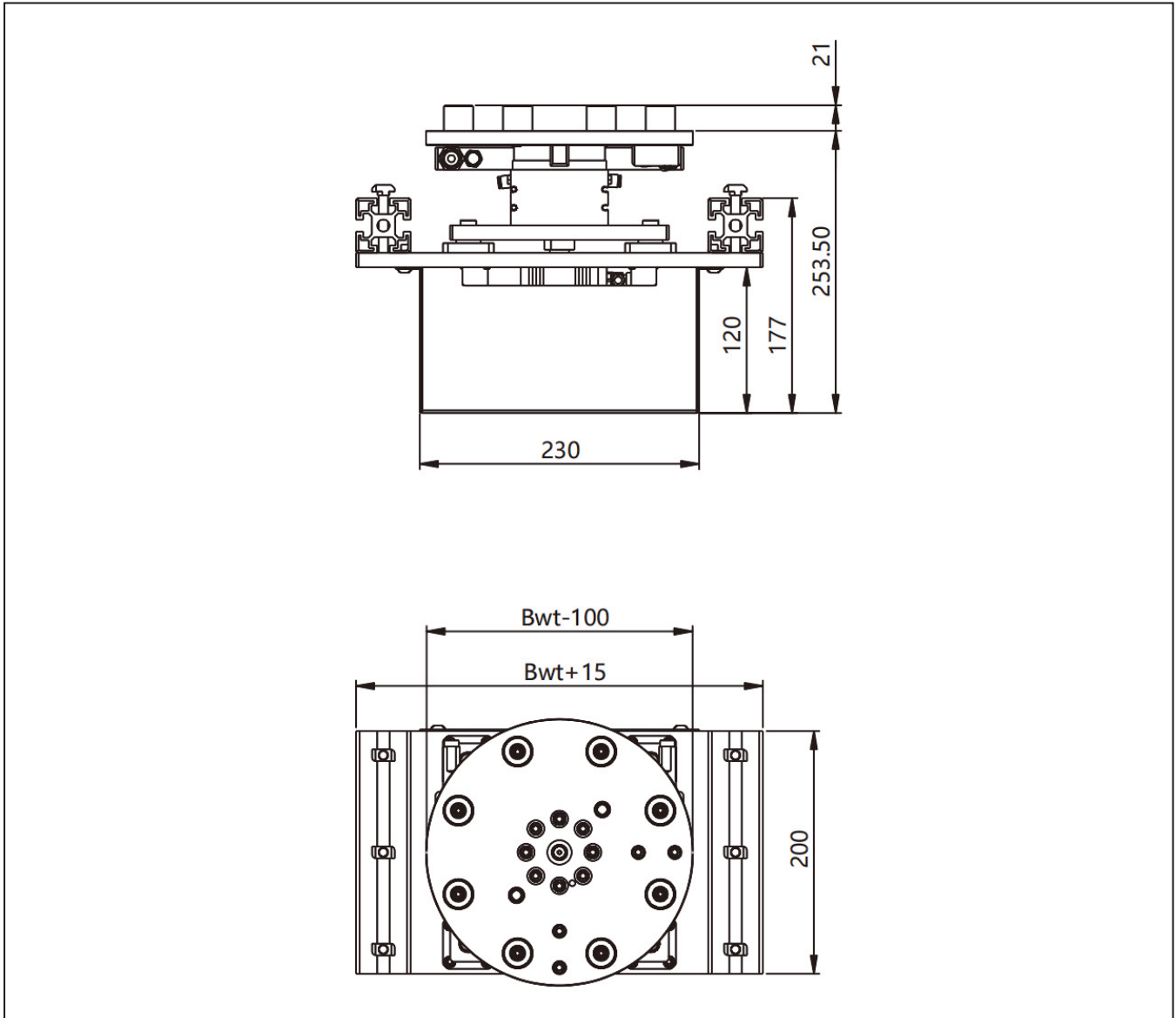
Fully assembled

Recommended accessories:

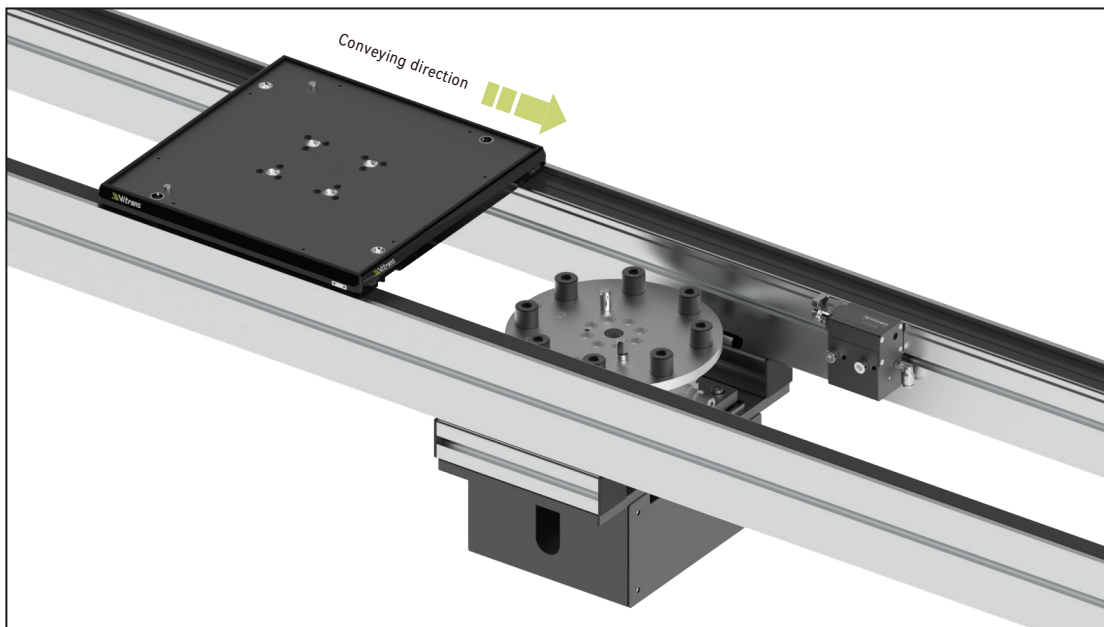
Stopper
Two-position five-way dual electronic control solenoid valve

- ▶ For rotating workpiece pallets 90° or 180°
- ▶ Suitable for application with requirement for workpiece pallet orientation
- ▶ Suitable for 640mm×640mm or smaller WA2 and WE2 workpiece pallet
- ▶ Lift height (above conveying medium): 25mm
- ▶ Extra bushings(4pcs) need to be added on workpiece pallet to fit with the lift and rotate unit.
- ▶ Pneumatic mechanism
- ▶ Support customization

PR - Dimensions



PR - Application



The workpiece pallet in the picture is with 4pcs extra bushings.

Technical data

| | | |
|---|-----------|-------------------------------|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,640 |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,640 |
| Combination options(mm) | Bwt x Lwt | 160 x 160、240、320 |
| | | 240 x 160、240、320、400、480 |
| | | 320 x 160、240、320、400、480、560 |
| | | 400 x 240、320、400、480、560、640 |
| | | 480 x 320、400、480、560、640 |
| | | 560 x 320、400、480、560、640 |
| Permitted maximum load(kg)* | | 30 |
| Lift cylinder bore diameter(mm)* | | 40 50 |
| Rotate cylinder bore diameter(mm)* | | 50 |
| Adapted conveyor type* | | BC2/AC2/PC2 |
| Rotate angle* | | 90°、180° |

Note 1: While workpiece pallet size Bwt is 160mm or Lwt is less than 240mm, lift cylinder bore diameter is 40mm.

While workpiece pallet length Lwt is over 240mm, lift cylinder diameter is 50mm.

Note 2: While adapted conveyor type is BC2, lift and rotate unit can also be used on FC2 conveyor.

Ordering information

| | |
|----------------------------|--|
| PR | Lift and rotate unit: PR |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 640 |
| L <input type="checkbox"/> | Workpiece pallet length: 160 / 240 / 320 / 400 / 480 / 640 |
| <input type="checkbox"/> | Rotate angle: 90° / 180° |
| <input type="checkbox"/> | Adapted conveyor type: BC2 / PC2 / AC2 |
| <input type="checkbox"/> | Cylinder brand: S |
| SP | Special requirements: a.Customized load b.Customized rotate angle |

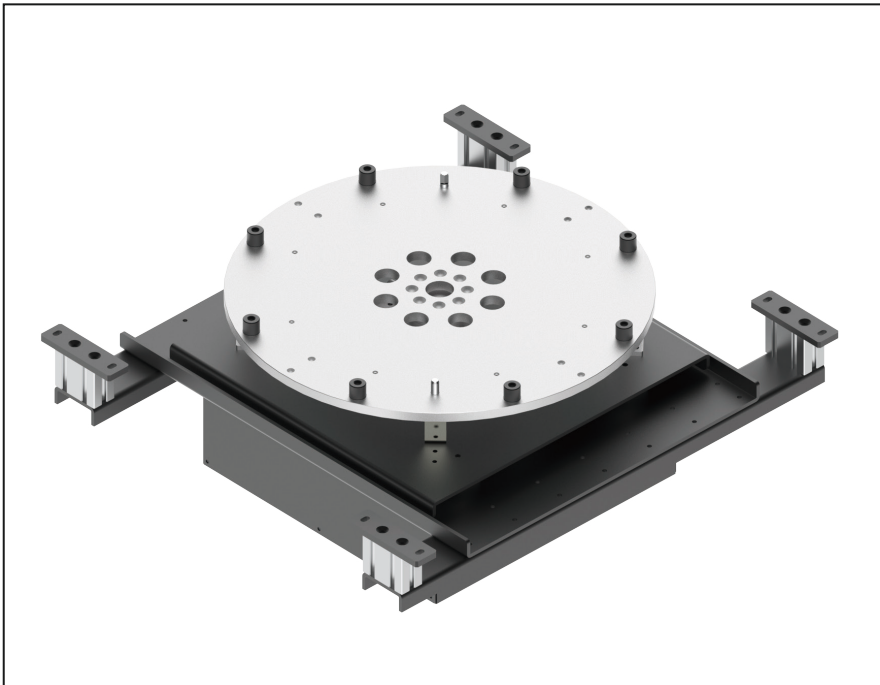
Note: While adapted conveyor type is BC2, lift and rotate unit can also be used on FC2 conveyor.

Ordering example

PR—B320—L320—90—BC2—S

| | | | |
|----------------------------|---------------------------------|----------------------------------|-------------------|
| Lift and rotate unit: PR | Workpiece pallet width: Bwt=320 | Workpiece pallet length: Lwt=320 | Rotate angle: 90° |
| Adapted conveyor type: BC2 | Cylinder brand: S | Special requirements: None | |

PR-L Lift and rotate unit



Delivery notes

Scope of delivery:

Lift and rotate unit

Protective housing

Assembly kit

Throttle valve($\phi 6$)

Magnetic switches: Two wires type

(No need to distinguish PNP or NPN)

*Note: Magnetic switches includes 500mm cable, without connector.

Condition on delivery:

Fully assembled

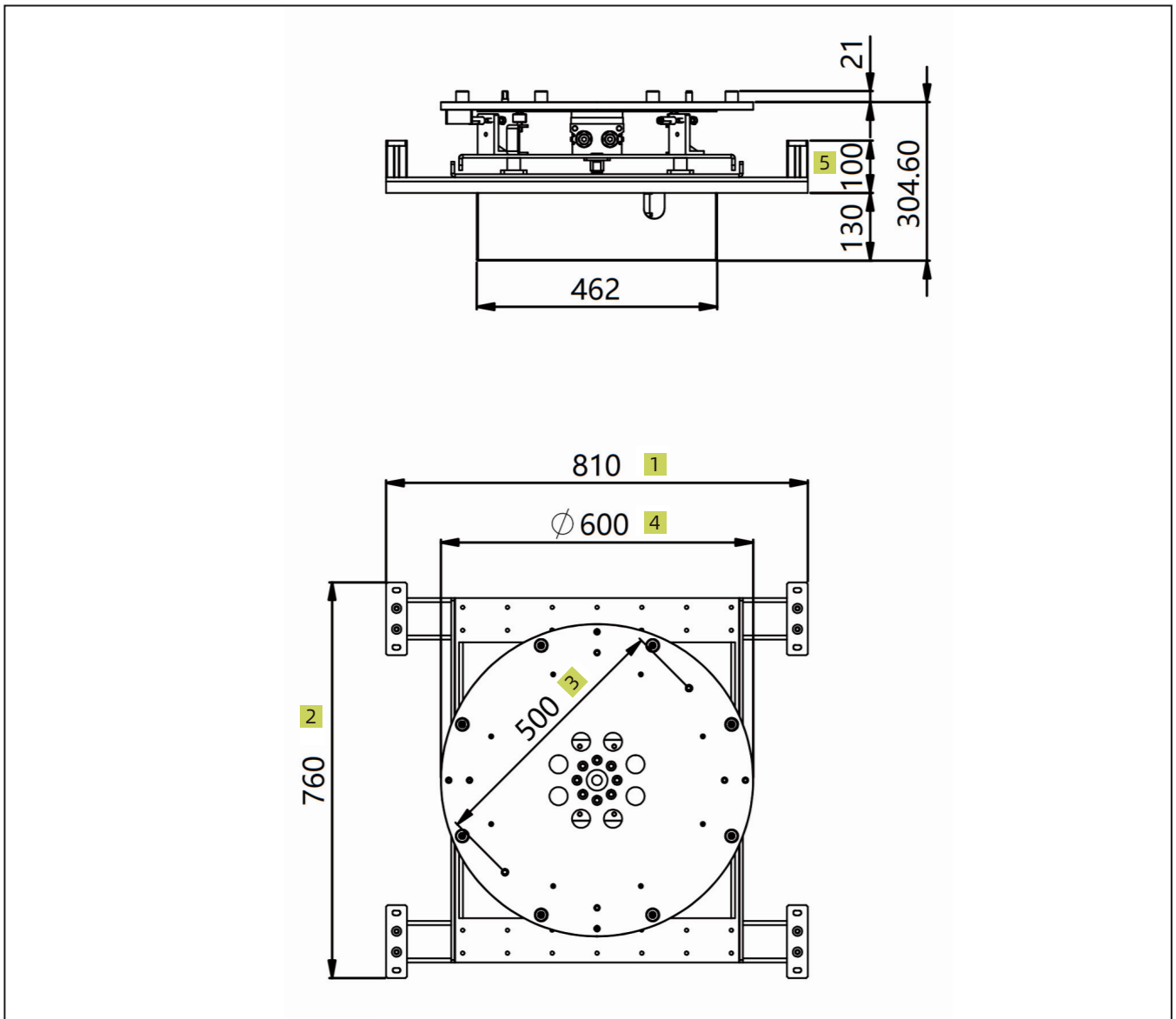
Recommended accessories:

Stopper

Two-position five-way dual electronic control solenoid valve

- ▶ For rotating workpiece pallets 90° or 180°
- ▶ Suitable for application with requirement for workpiece pallet orientation
- ▶ Suitable for WA2 and WE2 workpiece pallet size over 640mm×640mm
- ▶ Lift height (above conveying medium): 25mm
- ▶ Extra bushings(4pcs) need to be added on workpiece pallet to fit with the lift and rotate unit.
- ▶ Support customization

PR-L - Dimensions

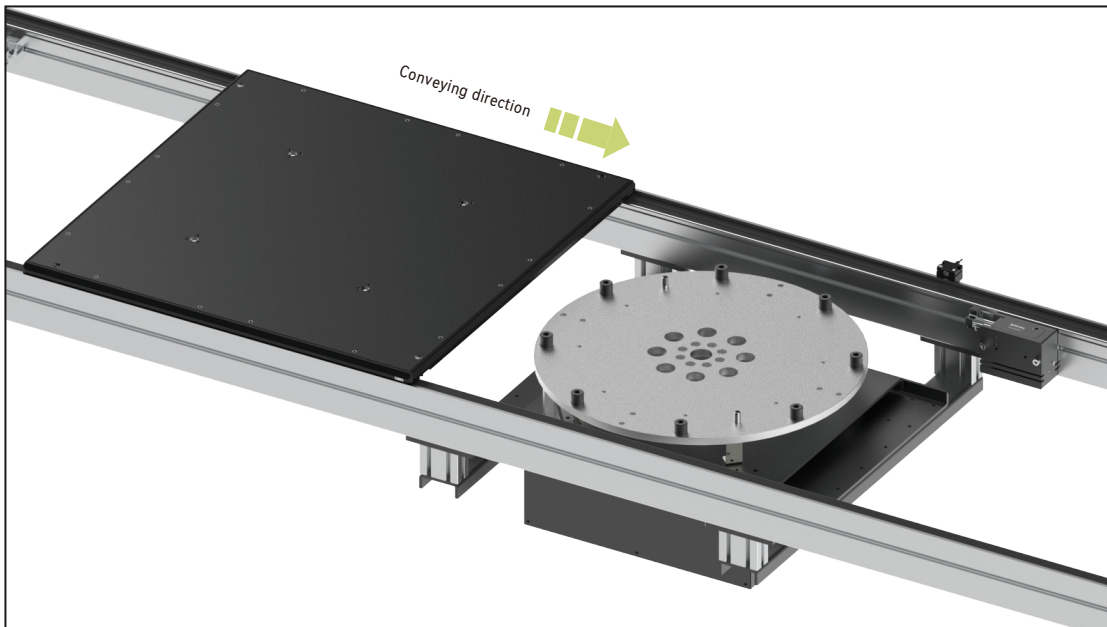


5 The dimension is changed for different conveyor type.

| Combination options(mm) | Dimensions | | | |
|-------------------------|------------|-----|-----|-----|
| | 1 | 2 | 3 | 4 |
| B640×(L640 ~ 1200) | 650 | 660 | 400 | 500 |
| B720×(L640 ~ 1200) | 730 | 660 | 400 | 500 |
| B800×(L640 ~ 1200) | 810 | 760 | 500 | 600 |
| B1040×(L720 ~ 1200) | 1050 | 860 | 600 | 700 |
| B1200×(L800 ~ 1200) | 1210 | 960 | 700 | 800 |

Note: Dimensions 1, 2, 3 and 4 are changed for different combination options.

PR-L - Application



The workpiece pallet in the picture is with 4pcs extra bushings.

Technical data

| | | |
|------------------------------------|-----------|-----------------------------|
| Workpiece pallet width(mm)* | Bwt | 640,720,800,1040,1200 |
| Workpiece pallet length(mm)* | Lwt | 640,720,800,1040,1200 |
| Combination options(mm) | Bwt x Lwt | 640 x 640、720、800、1040、1200 |
| | | 720 x 640、720、800、1040、1200 |
| | | 800 x 640、720、800、1040、1200 |
| | | 1040 x720、800、1040、1200 |
| | | 1200 x 800、1040、1200 |
| Permitted maximum load(kg)* | | 50 |
| Lift cylinder bore diameter(mm)* | | 63 |
| Rotate cylinder bore diameter(mm)* | | 100 |
| Adapted conveyor type* | | BC2/AC2/PC2 |
| Rotate angle* | | 90°、180° |

Note: While adapted conveyor type is BC2, lift and rotate unit can also be used on FC2 conveyor.

Ordering information

| | |
|----------------------------|--|
| PR-L | Lift and rotate unit: PR-L |
| B <input type="checkbox"/> | Workpiece pallet width: 640 / 720 / 800 / 1040 / 1200 |
| L <input type="checkbox"/> | Workpiece pallet length: 640 / 720 / 800 / 1040 / 1200 |
| <input type="checkbox"/> | Rotate angle: 90° / 180° |
| <input type="checkbox"/> | Adapted conveyor type: BC2 / PC2 / AC2 |
| <input type="checkbox"/> | Cylinder brand: S |
| SP | Special requirements: a.Customized load b.Customized rotate angle |

Note: While adapted conveyor type is BC2, lift and rotate unit can also be used on FC2 conveyor.

Ordering example

PR-L—B800—L800—90—BC2—S

| | | | |
|----------------------------|---------------------------------|----------------------------------|-------------------|
| Lift and rotate unit: PR-L | Workpiece pallet width: Bwt=800 | Workpiece pallet length: Lwt=800 | Rotate angle: 90° |
| Adapted conveyor type: BC2 | Cylinder brand: S | Special requirements: None | |

07

Curve unit

Curve unit is used to change the direction of a workpiece pallet and to keep the orientation of the workpiece.

KV/90 Curve unit

Use round belt to convey and turn the workpiece pallet in 90°.

KV/180 Curve unit

Use round belt to convey and turn the workpiece pallet in 180°.

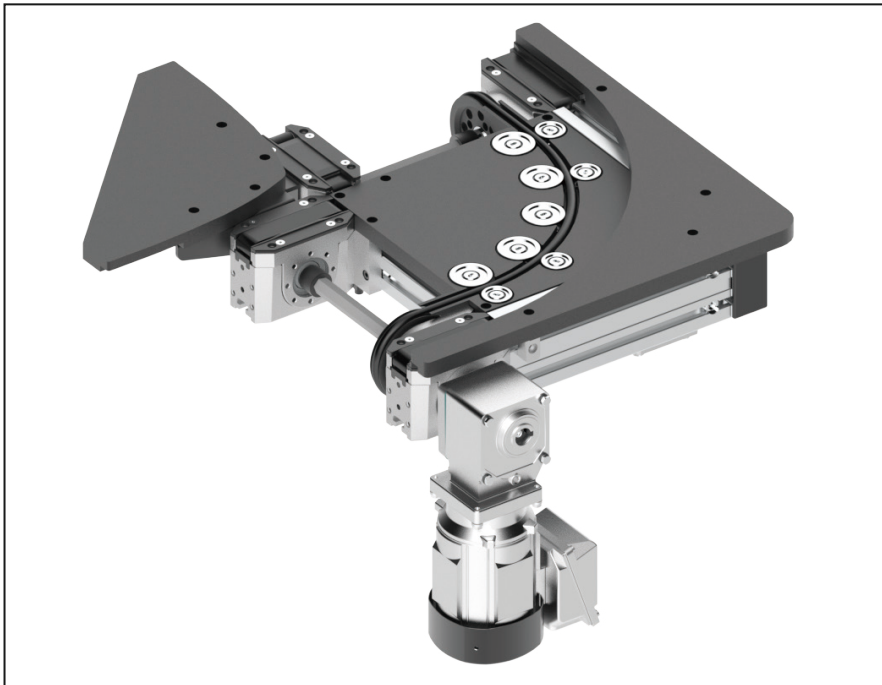
CV/90 Curve unit

Use flat top chain to convey and turn the workpiece pallet in 90°.

CV/180 Curve unit

Use flat top chain to convey and turn the workpiece pallet in 180°.

KV/90 Curve unit



Delivery notes

Scope of delivery:

Curve unit
Motor(with terminal box)

Condition on delivery:

Fully assembled

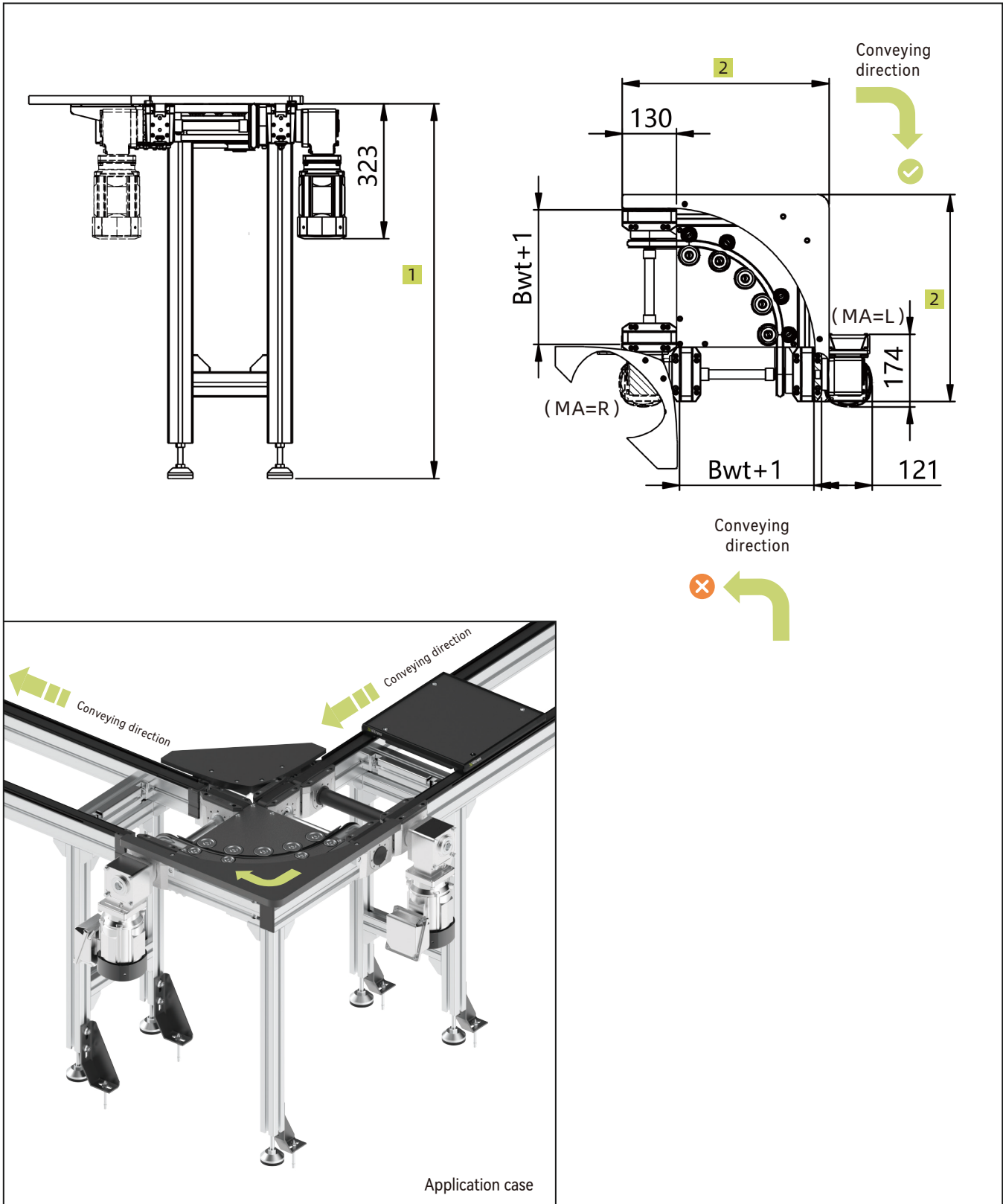
Recommended accessories:

Curve Leg(with foundation bracket and bolts)
Connection kit

- ▶ Keep the orientation of the workpiece during conveying
- ▶ Conveying medium: Round belt + Timing belt
- ▶ Motor is installed at the exit side of the curve unit
- ▶ Permitted maximum load: 20kg
- ▶ Compliant with ESD
- ▶ Support customization
- ▶ Prohibit accumulation
- ▶ Prohibit reverse operation

Note: The guide profile of the conveyor connected to the KV curve unit must be partially cut off and chamfered to avoid workpiece pallet jammed.

KV/90-Dimensions



1 Customized

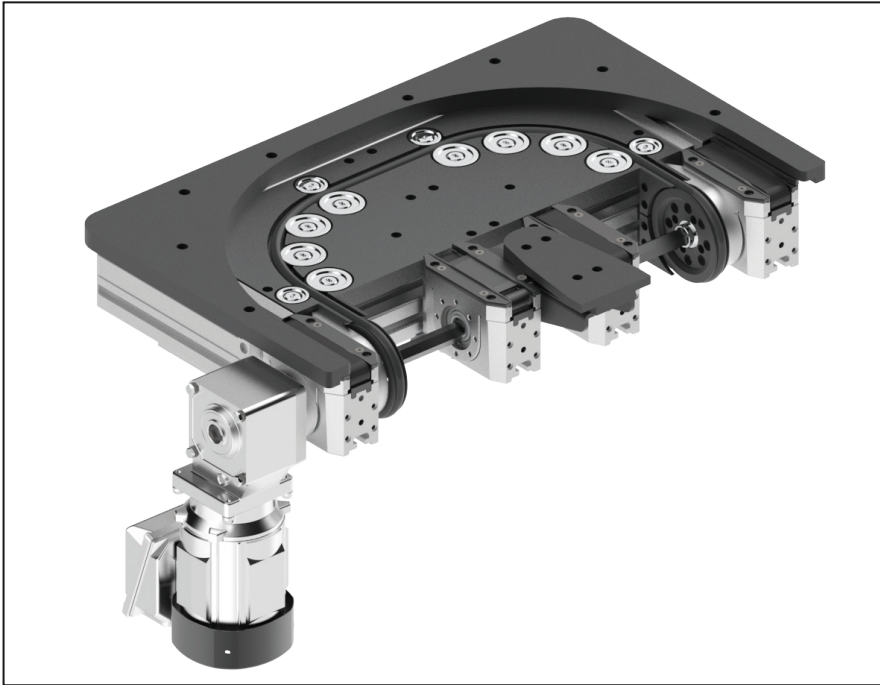
2 Follow workpiece pallet size

Technical data

| | | |
|--|---------|------------------------------------|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400 |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400 |
| Combination options(mm) | BwtxLwt | 160 x 160、240 |
| | | 240 x 160、240、320 |
| | | 320 x 240、320、400 |
| | | 400 x 320、400 |
| Permitted maximum load(kg)* | | 20 |
| Permitted maximum surface load(kg/cm)* | | 1 |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right) |
| Conveying direction* | | C0(Clockwise) / CL(Anti-clockwise) |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |

| | |
|-------------------------|---|
| Workpiece pallet width | Support customization. |
| Workpiece pallet length | Support customization. |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a.Support customizing other working frequency. b.VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

KV/180 Curve unit



Delivery notes

Scope of delivery:

Curve unit
Motor(with terminal box)

Condition on delivery:

Fully assembled

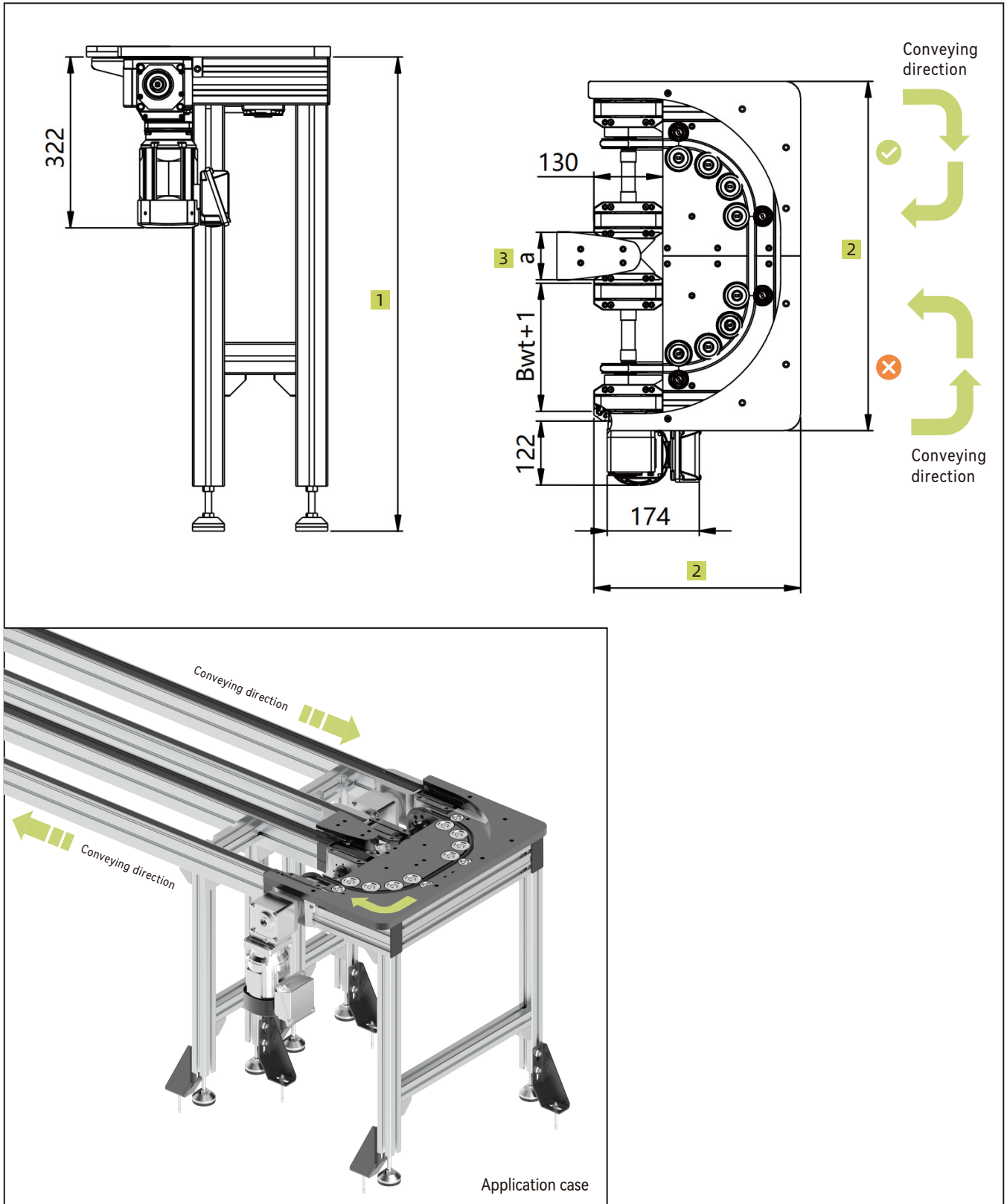
Recommended accessories:

Curve Leg(with foundation bracket and bolts)
Connection kit

- ▶ Keep the orientation of the workpiece during conveying
- ▶ Conveying medium: Round belt + Timing belt
- ▶ Motor is installed at the exit side of the curve unit
- ▶ Permitted maximum load: 20kg
- ▶ Compliant with ESD
- ▶ Support customization
- ▶ Prohibit accumulation
- ▶ Prohibit reverse operation

Note: The guide profile of the conveyor connected to the KV curve unit must be partially cut off and chamfered to avoid workpiece pallet jammed.

KV/180 - Dimensions



- 1** Customized
- 2** Follow workpiece pallet size
- 3** Options of distance a: 90mm/135mm

Technical data

| | | |
|--|---------|------------------------------------|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400 |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400 |
| Combination options(mm) | BwtxLwt | 160 x 160、240 |
| | | 240 x 160、240、320 |
| | | 320 x 240、320、400 |
| | | 400 x 320、400 |
| Permitted maximum load(kg)* | | 20 |
| Permitted maximum surface load(kg/cm)* | | 1 |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Distance of conveyors* | a | 90 , 135 |
| Motor type* | | Three phase motor |
| Conveying direction | | C0(Clockwise) / CL(Anti-clockwise) |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |

| | |
|-------------------------|--|
| Workpiece pallet width | Support customization. |
| Workpiece pallet length | Support customization. |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | <p>a.Support customizing other working frequency.</p> <p>b.VFD can be used for speed adjusting.</p> |
| Motor connection | <p>Default terminal box direction is shown in the figure.</p> <p>For other request, please contact us.</p> |

Ordering information

| | |
|-----------------------------------|---|
| KV | Curve unit type: KV / 90 KV / 180 |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / customized |
| L <input type="checkbox"/> | Workpiece pallet length: 160 / 240 / 320 / 400 / customized |
| V <input type="checkbox"/> | Rated speed: 0 ¹⁾ / 6 / 9 / 12 / 15 / 18 / customized |
| <input type="checkbox"/> | Conveying direction: C0(Clockwise) / CL(Anti-clockwise) |
| <input type="checkbox"/> | Motor mounting location: L(left), R(Right) Note: Only for KV90 curve unit |
| A <input type="checkbox"/> | Motor mounting angle: 0 / 90 / 180 / 270 |
| <input type="checkbox"/> | Motor type: ZY02(Default brand) |
| SP | Special requirements: a.Working voltage b.Working frequency c.Terminal box direction d.Motor connection e.Motor mounting location 1) V=0 means no motor |

Ordering example

KV/90—B320—L320—V12—C0—L—A0—ZY02

Curve unit type: KV/90 **Workpiece pallet width:** Bwt=320 **Workpiece pallet length:** Lwt=320 **Rated speed:** 12m/min

Conveying direction: C0(Clockwise) **Motor mounting location:** L(left) **Motor mounting angle :** 0° **Motor type:** ZY02

Special requirements: None

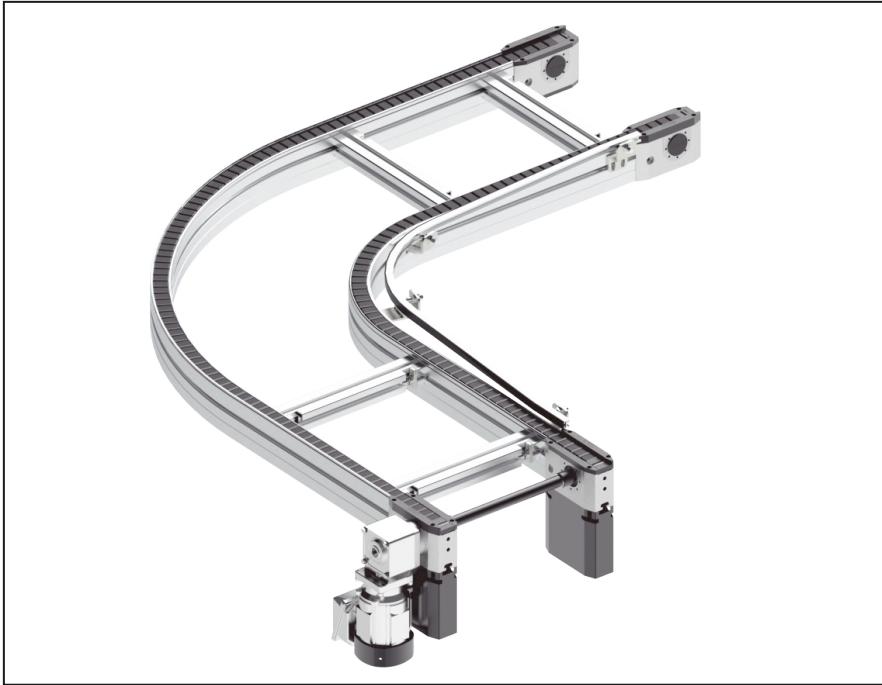
Ordering example

KV/180—B320—L320—V12—C0—A0—ZY02

Curve unit type: KV/180 **Workpiece pallet width:** Bwt=320 **Workpiece pallet length:** Lwt=320 **Rated speed:** 12m/min

Conveying direction: C0(Clockwise) **Motor mounting angle:** 0° **Motor type:** ZY02 **Special requirements:** None

CV/90 Curve unit



Delivery notes

Scope of delivery:

Curve unit
Motor(with terminal box)

Condition on delivery:

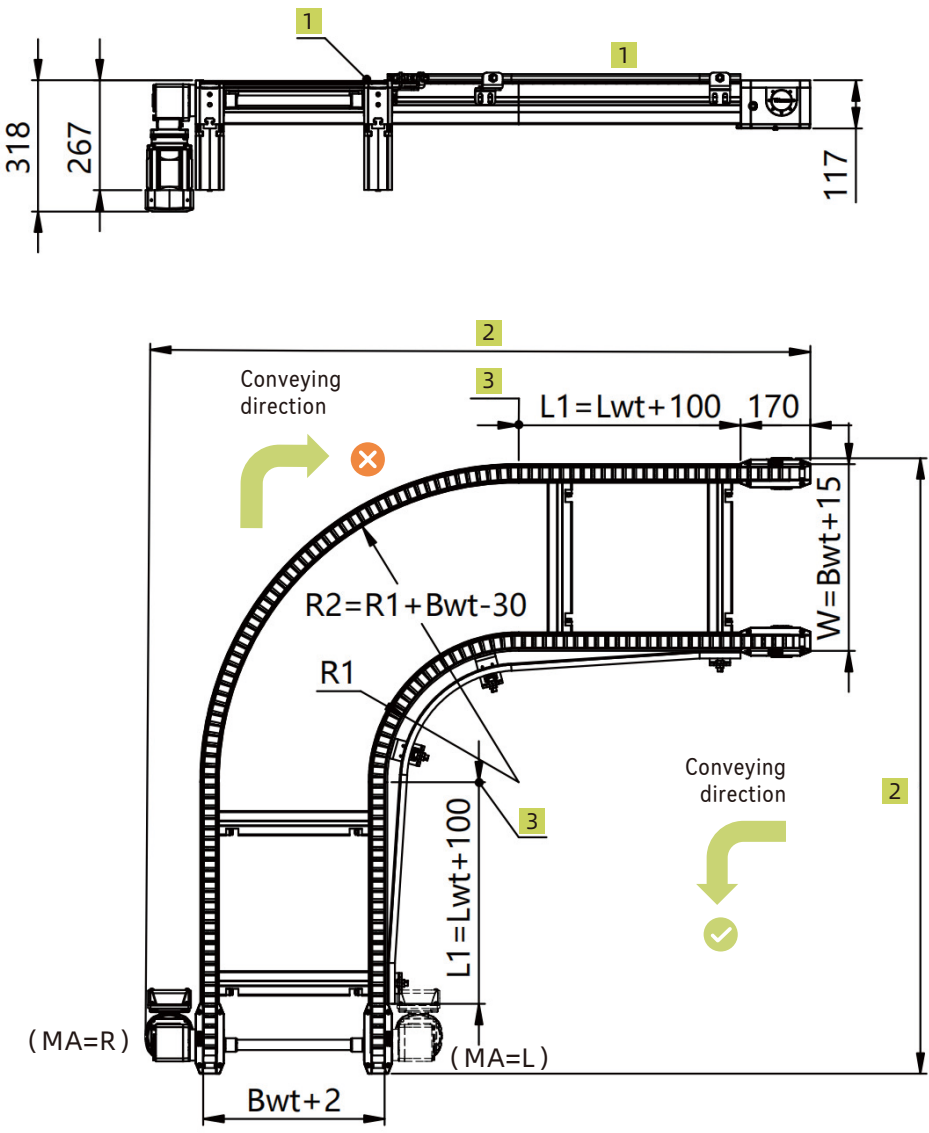
Fully assembled

Recommended accessories:

Curve Leg(with foundation bracket and bolts)
Connection kit
Automatic lubricate unit

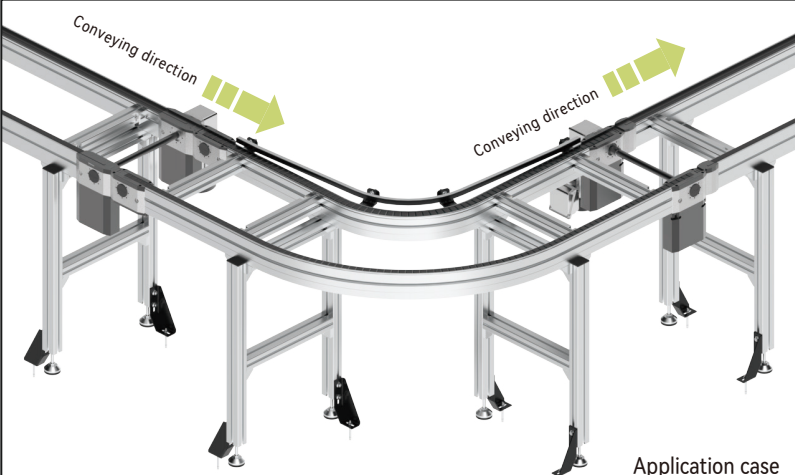
- ▶ Keep the orientation of the workpiece during conveying
- ▶ Conveying medium: Flat top chain
- ▶ Prohibit reverse operation
- ▶ Automatic lubricate unit can be used.
- ▶ The straight section at the both ends of the curve unit can be extended.
- ▶ Support customization
- ▶ WA2 workpiece pallets can stop on the CV curve.
WE2 workpiece pallets cannot stop on the CV curve.

CV/90 - Dimensions



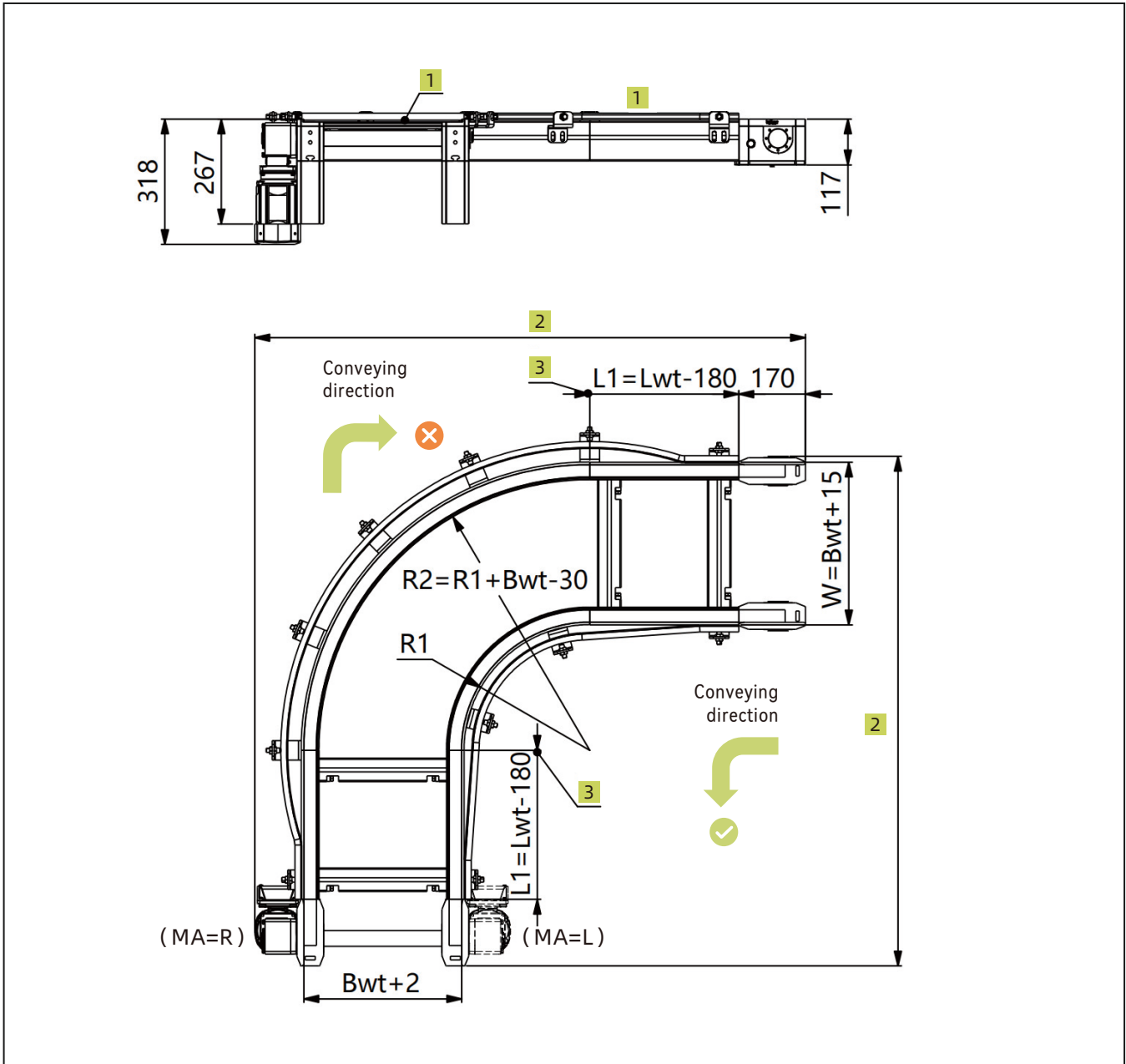
- 1 Conveyor medium top face
- 2 Follow workpiece pallet size
- 3 Support customization

Note: For workpiece pallet length is less than 560mm, the dimensions of the curve unit is shown in above drawing. Curve unit inner diameter R1 is 320mm.



Application case

CV/90 - Dimensions



- 1 Conveyor medium top face
- 2 Follow workpiece pallet size
- 3 Support customization

Note: For workpiece pallet length is between 560mm and 1040mm, the dimensions of the curve unit is shown in above drawing.

For workpiece pallet length Lwt is less than 800mm, curve unit inner diameter $R1$ is 320mm.

For other lengths, the inner diameter $R1$ is 400mm.

Technical data

| | | |
|--|-----------|---|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,720,800,1040,1200 |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640,720,800,1040,1200 |
| Combination options(mm) | Bwt x Lwt | 160 x 160、240、320 |
| | | 240 x 160、240、320、400、480 |
| | | 320 x 160、240、320、400、480 |
| | | 400 x 240、320、400、480、560、640、720 |
| | | 480 x 320、400、480、560、640、720、800 |
| | | 560 x 320、400、480、560、640、720、800 |
| | | 640 x 320、400、480、560、640、720、800、1040 |
| | | 720 x 400、480、560、640、720、800、1040 |
| 800 x 480、560、640、720、800、1040 | | |
| Permitted maximum load(kg) | | 90 |
| Permitted maximum surface load(kg/cm)* | | 1 |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right) |
| Conveying direction | | C0(Clockwise) / CL(Anti-clockwise) |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |

| | |
|-------------------------|--|
| Workpiece pallet width | Support customization. |
| Workpiece pallet length | Support customization. |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a. Support customizing other working frequency. b. VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

CV/180 Curve unit



Delivery notes

Scope of delivery:

Curve unit
Motor(with terminal box)

Condition on delivery:

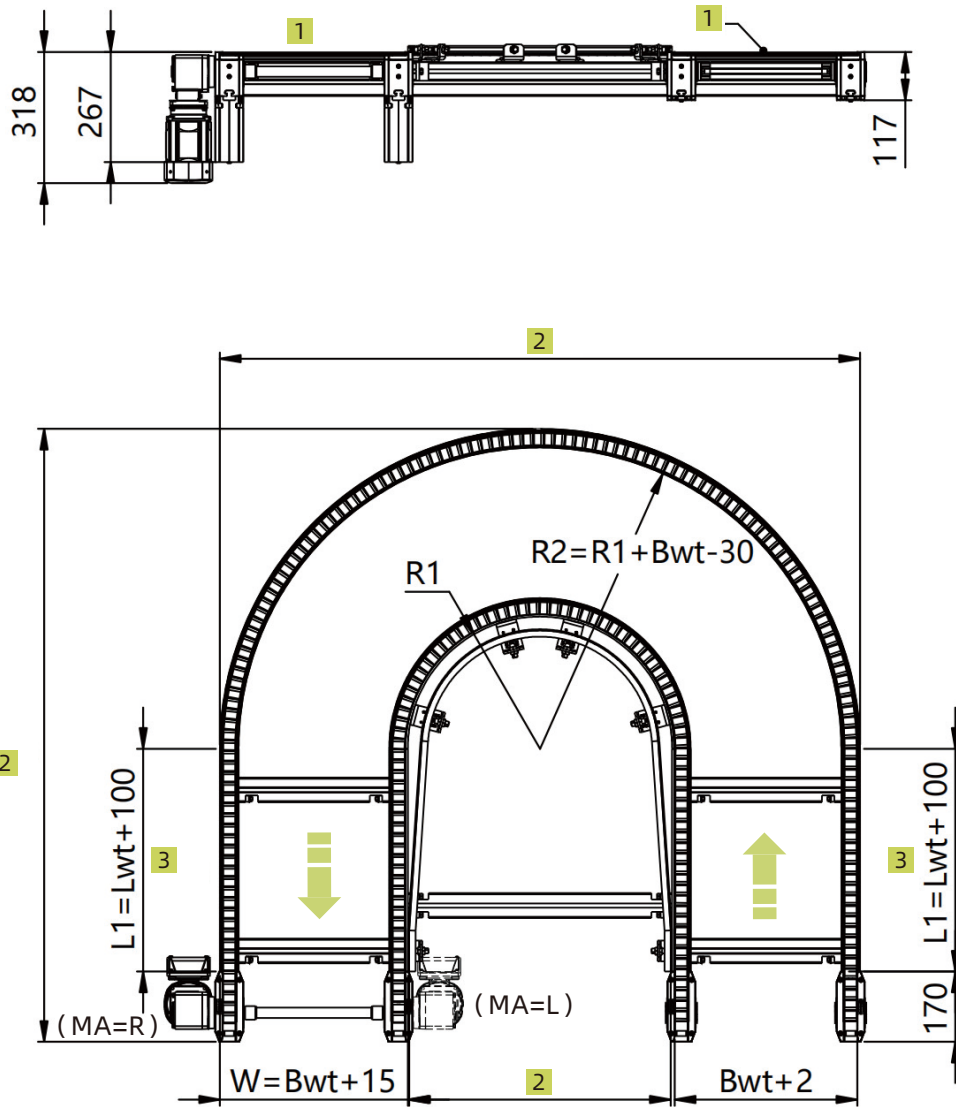
Fully assembled

Recommended accessories:

Curve Leg(with foundation bracket and bolts)
Connection kit
Automatic lubricate unit

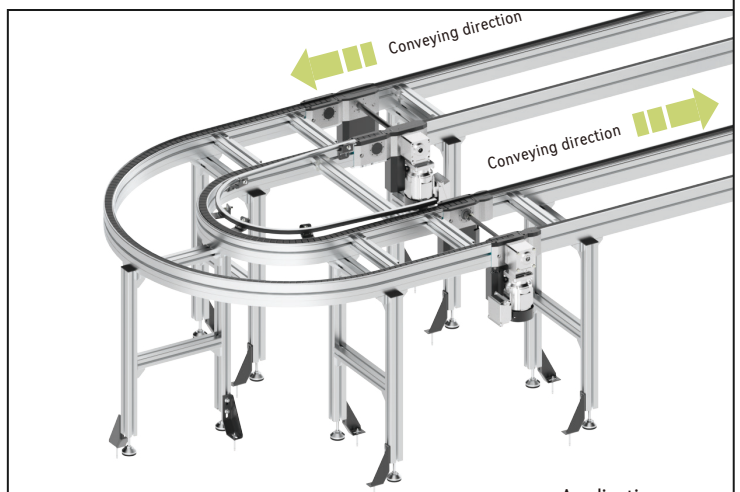
- ▶ Keep the orientation of the workpiece during conveying
- ▶ Conveying medium: Flat top chain
- ▶ Prohibit reverse operation
- ▶ Automatic lubricate unit can be used.
- ▶ The straight section at the both ends of the curve unit can be extended.
- ▶ Support customization
- ▶ WA2 workpiece pallets can stop on the CV curve.
WE2 workpiece pallets cannot stop on the CV curve.

CV/180 - Dimensions



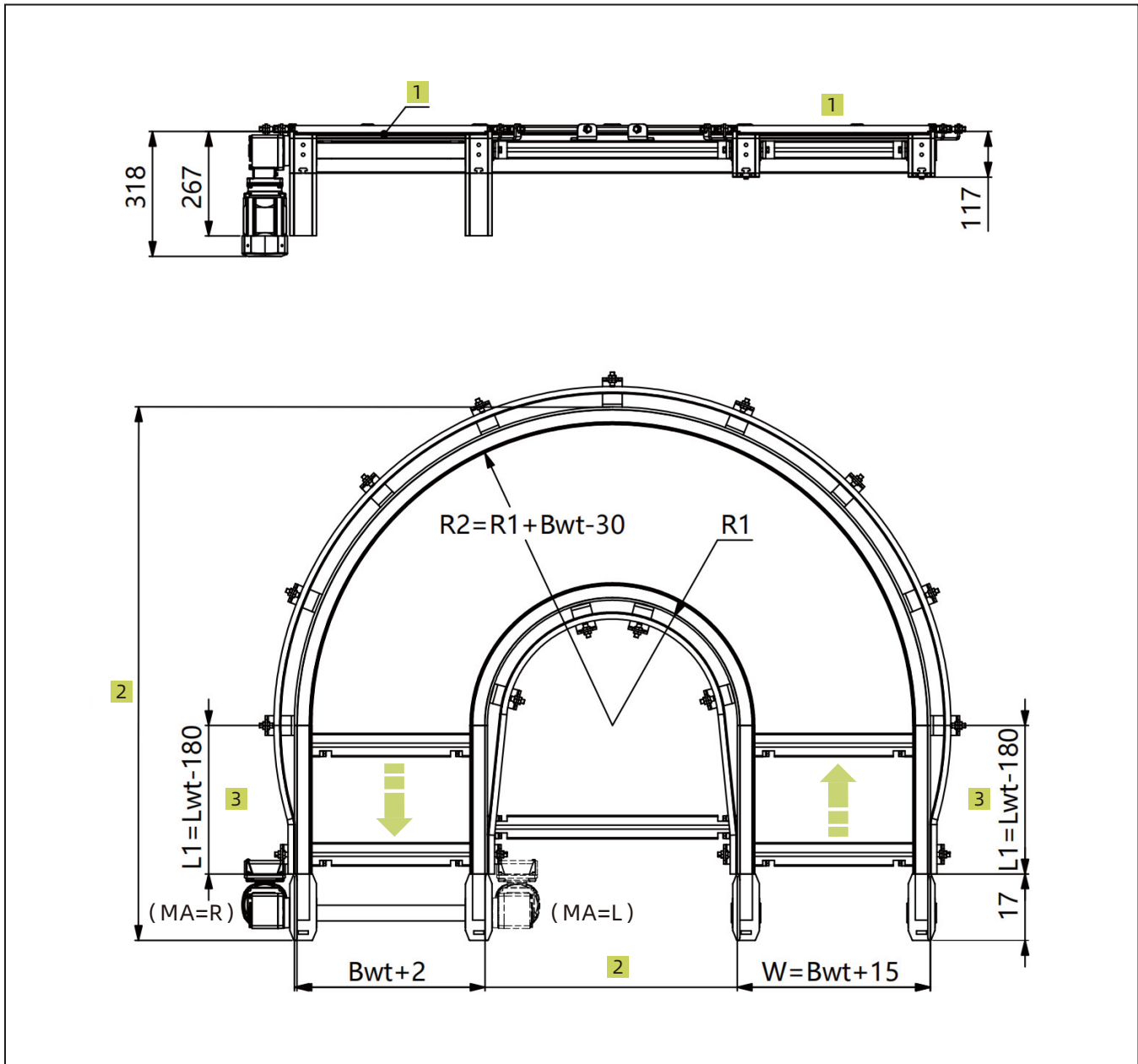
- 1 Conveyor medium top face
- 2 Follow workpiece pallet size
- 3 Support customization

Note: For workpiece pallet length is less than 560mm, the dimensions of the curve unit is shown in above drawing. Curve unit inner diameter $R1$ is 320mm.



Application case

CV/180 - Dimensions



- 1 Conveyor medium top face
- 2 Follow workpiece pallet size
- 3 Support customization

Note: For workpiece pallet length is between 560mm and 1040mm, the dimensions of the curve unit is shown in above drawing.

For workpiece pallet length Lwt is less than 800mm, curve unit inner diameter R1 is 320mm.

For other lengths, the inner diameter R1 is 400mm.

Technical data

| | | |
|---|-----------|---|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,720,800,1040,1200 |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640,720,800,1040,1200 |
| Combination options(mm) | Bwt x Lwt | 160 x 160、240、320 |
| | | 240 x 160、240、320、400、480 |
| | | 320 x 160、240、320、400、480 |
| | | 400 x 240、320、400、480、560、640、720 |
| | | 480 x 320、400、480、560、640、720、800 |
| | | 560 x 320、400、480、560、640、720、800 |
| | | 640 x 320、400、480、560、640、720、800、1040 |
| | | 720 x 400、480、560、640、720、800、1040 |
| | | 800 x 480、560、640、720、800、1040 |
| Permitted maximum load(kg) | | 60 |
| Permitted maximum surface load(kg/cm)* | | 1 |
| Rated speed(m/min)* | V | 0,6,9,12,15,18 |
| Motor type* | | Three phase motor |
| Motor mounting location* | MA | L(left), R(Right) |
| Conveying direction | | C0(Clockwise) / CL(Anti-clockwise) |
| Working voltage* | U | 220/380AC |
| Working frequency* | f | 50Hz |
| Motor connection* | AT | Terminal box |

| | |
|--------------------------------|--|
| Workpiece pallet width | Support customization. |
| Workpiece pallet length | Support customization. |
| Rated speed | V=0 means no motor. Support customizing other speed. |
| Working voltage | Support customizing other working voltage. |
| Working frequency | a. Support customizing other working frequency. b. VFD can be used for speed adjusting. |
| Motor connection | Default terminal box direction is shown in the figure. For other request, please contact us. |

Ordering information

| | |
|----------------------------|--|
| CV | Curve unit type: CV / 90 CV / 180 |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 / 720 / 800 / 1040 / 1200 |
| L <input type="checkbox"/> | Workpiece pallet length: 160 / 240 / 320 / 400 / 480 / 560 / 640 / 720 / 800 / 1040 / 1200 |
| V <input type="checkbox"/> | Rated speed: 0 ¹⁾ / 6 / 9 / 12 / 15 / 18 / customized |
| <input type="checkbox"/> | Conveying direction: C0(Clockwise) / CL(Anti-clockwise) |
| <input type="checkbox"/> | Motor mounting location: L(left), R(Right) |
| A <input type="checkbox"/> | Motor mounting angle: 0 / 90 / 180 / 270 |
| <input type="checkbox"/> | Motor type: ZY02(Default brand) |
| SP | Special requirements: a.Working voltage b.Working frequency c.Terminal box direction d.Motor connection e.Motor mounting location 1) V=0 means no motor |

Ordering example

CV/90—B320—L320—V12—C0—L—A0—ZY02

Curve unit type: CV/90 Workpiece pallet width: Bwt=320 Workpiece pallet length: Lwt=320 Rated speed: 12 m/min

Conveying direction: C0(Clockwise) Motor mounting location: L(left) Motor mounting angle: 0° Motor type: ZY02

Special requirements: None

Motor technical data of curve units

| Curve unit type | Rated speed (m/min) | Permitted maximum load (kg) | Working frequency (Hz) | Motor power (KW) |
|-----------------|------------------------|--------------------------------|---------------------------|---------------------|
| KV/90 | 6 | 20 | 50 | 0.2 |
| | 9 | | 50 | 0.2 |
| | 12 | | 50 | 0.2 |
| | 15 | | 50 | 0.2 |
| | 18 | | 50 | 0.2 |
| KV/180 | 6 | 20 | 50 | 0.2 |
| | 9 | | 50 | 0.2 |
| | 12 | | 50 | 0.2 |
| | 15 | | 50 | 0.2 |
| | 18 | | 50 | 0.2 |
| CV/90 | 6 | 90 | 50 | 0.2 |
| | 9 | | 50 | 0.2 |
| | 12 | | 50 | 0.2 |
| | 15 | | 50 | 0.2 |
| | 18 | | 50 | 0.2 |
| CV/180 | 6 | 60 | 50 | 0.2 |
| | 9 | | 50 | 0.2 |
| | 12 | | 50 | 0.2 |
| | 15 | | 50 | 0.2 |
| | 18 | | 50 | 0.2 |

08

Lifter

Conveying workpiece pallet vertically in double layers or multiple layers conveyor system.

LP/B—Belt lifter, lift mechanism is driven by servo motor

Suitable for double layers or multiple layers conveyor system. Permitted maximum lift speed is 500mm/s.

LP/P—Pneumatic lifter, lift mechanism is driven by cylinder

Suitable for double layers conveyor system. Permitted maximum lift speed is 300mm/s.

LP/S—Ball screw lifter, lift mechanism is driven by servo motor

Suitable for double layers or multiple layers conveyor system. Permitted maximum lift speed is 500mm/s.
Support customizing higher load.

LP/C—Pneumatic lifter, lift mechanism is driven by cylinder

Suitable for double layers conveyor system. Permitted maximum lift speed is 300mm/s.
Support customizing higher load and stroke.

LP/X—Stepping lifter, lift mechanism is driven by servo motor

Suitable for double layers conveyor system. Stepping conveying workpiece pallets in a short cycle time.

LP/B Belt lifter



Delivery notes

Scope of delivery:

Belt lifter

Servo motor(Including pulse type servo drive)

*Note: Default cable length between motor and drive is 5 meters.

Stepper motor(Including I/O type stepper drive)

Slot photoelectric sensor:

NPN (3pcs, with 2 meters wire)

Opposite photoelectric sensor:

NPN (1 pair, with 2 meters wire)

Proximity sensor:

NPN (2pcs, with 2 meters wire)

Safety pin

Acrylic protective cover

Condition on delivery:

Fully assembled

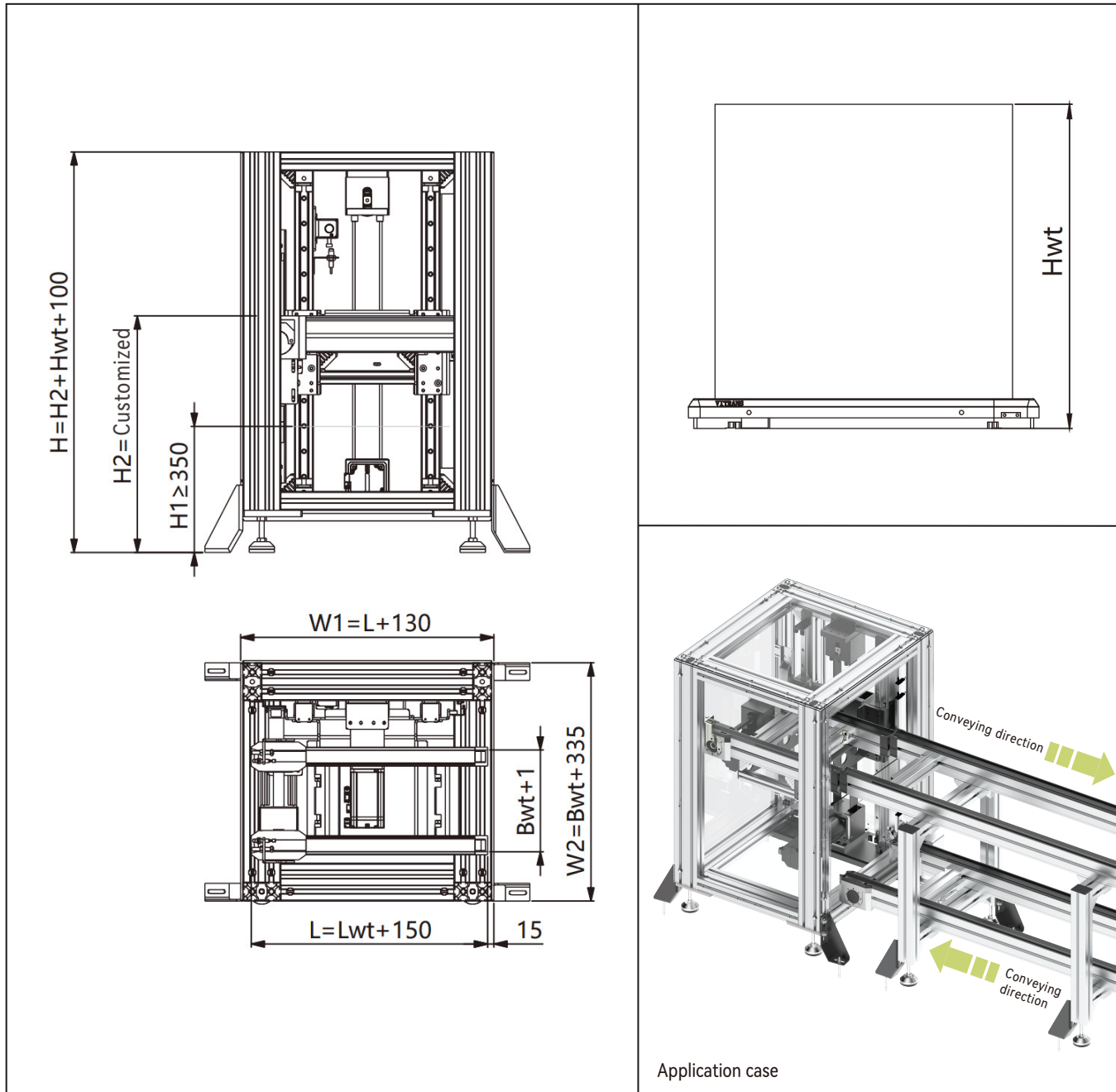
Recommended accessories:

Stopper

- ▶ Suitable for double layers or multiple layers conveyor system.
- ▶ Support customizing the quantity of workpiece pallet to be conveyed for each cycle
- ▶ Permitted maximum load: 30kg
- ▶ Permitted maximum lift speed: 500mm/s
- ▶ Reversible operation possible
- ▶ Stroke adjustable
- ▶ Support customization

Note: Default conveyor type for lifter is timing belt conveyor.

LP/B - Dimensions



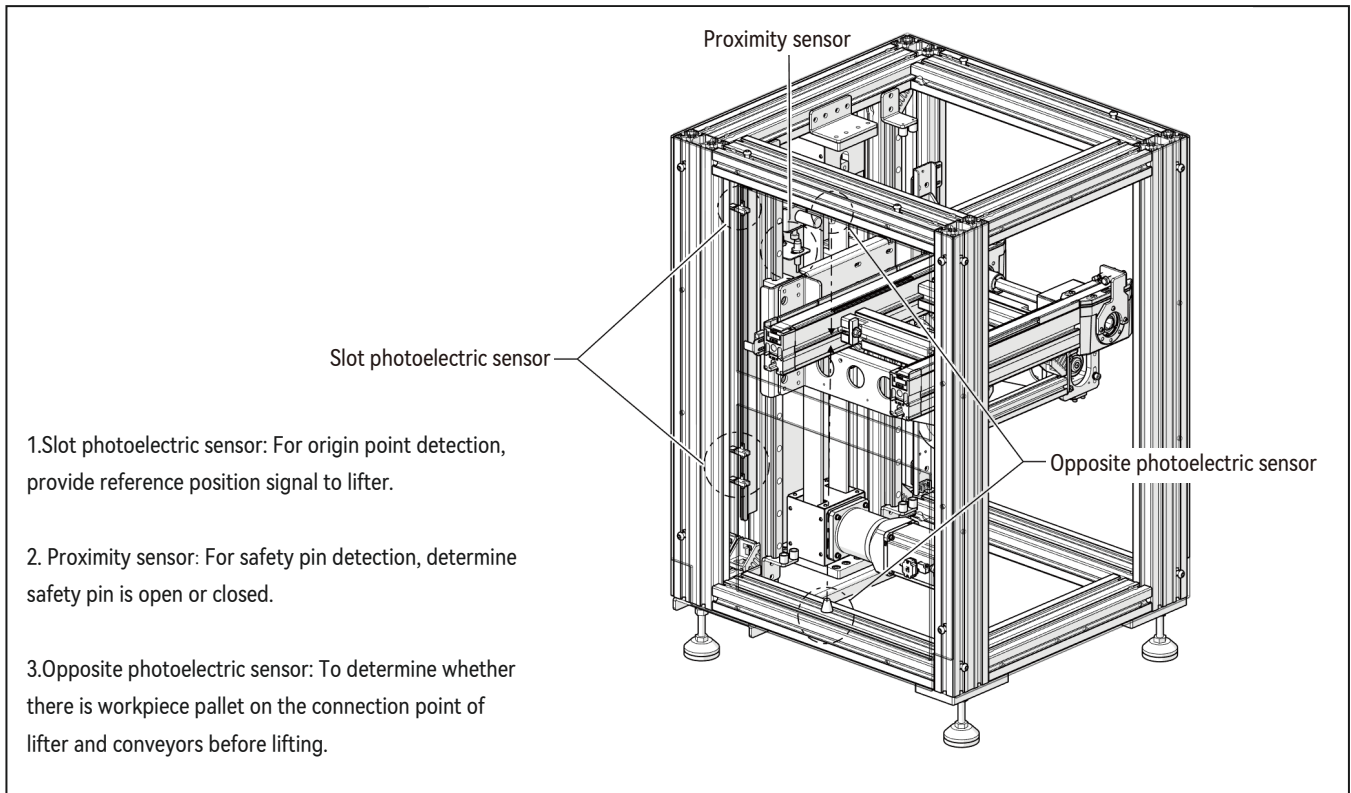
Note 1: Above specifications are for single workpiece pallet lifter.

Note 2: Default workpiece pallet height H_{wt} is 100mm.

Note 3: To load or unload workpiece on lifter, please specify.

Note 4: To add a photoelectric safety protection device, please specify.

Note: To use the lifter. The minimum conveyor height is 350mm. And the maximum conveyor height is 1500mm.



Technical data

| | | |
|---|-----|--|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640(Support customization;) |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640(Support customization;) |
| Conveyor length(mm)* | L | L=Lwt+150 |
| Permitted maximum load(kg)* | | 30 |
| Top layer conveyor height range(mm)* | | ≤1500 |
| Bottom layer conveyor height range(mm)* | | ≥350 |
| Lift speed(mm/s)* | V | ≤500 |
| Rated speed of conveyor(m/min)* | | 0,6,9,12,15,18(V=0 means no motor. Support customizing other speed;) |
| Lift motor type* | | Servo motor(Including pulse type servo drive) |
| Conveyor motor type* | | Stepper motor(Including I/O type stepper drive) |
| Motor mounting location* | MA | ML(Middle-left), MR(Middle-right) |
| Working voltage of servo motor* | U | AC: 220V(Single phase0 |
| Working voltage of stepper motor* | U | DC: 48V 3.8A(Support customizing other working voltage;) |
| Working frequency* | f | 50Hz |

LP/P Pneumatic lifter



- ▶ Suitable for double layers conveyor system.
- ▶ Support customizing the quantity of workpiece pallet to be conveyed for each cycle
- ▶ Permitted maximum load: 30kg
- ▶ Permitted maximum lift speed: 300mm/s
- ▶ Support customization

Note: Default conveyor type for lifter is timing belt conveyor.

Delivery notes

Scope of delivery:

Pneumatic lifter
Stepper motor(Including I/O type stepper drive)
Opposite photoelectric sensor:
NPN (1 pair, with 2 meters wire)
Magnetic switches:
Two wires type (2pcs, with 500mm wire)
Throttle valve ($\phi 10$)
Check valve
Acrylic protective cover

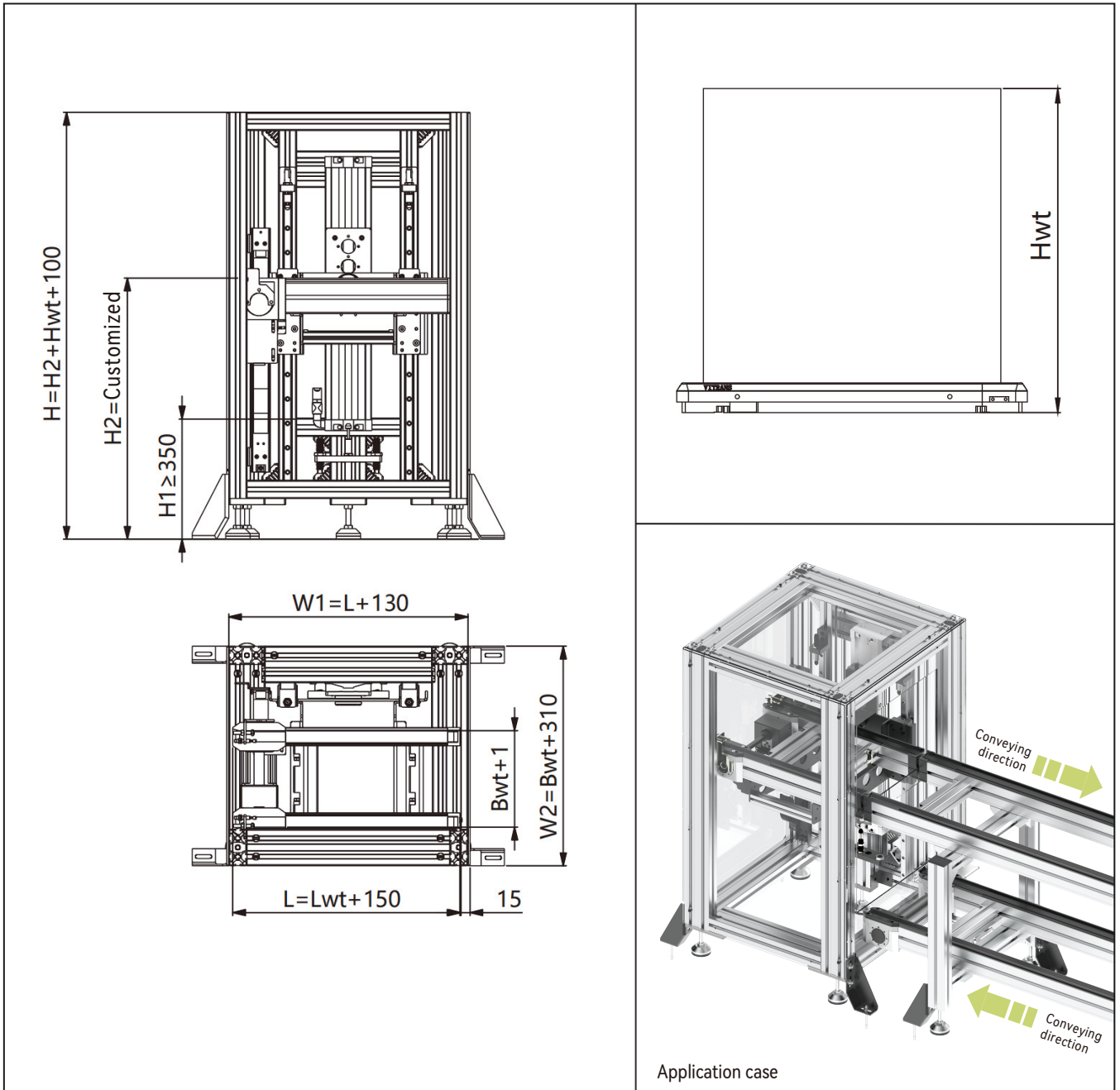
Condition on delivery:

Fully assembled

Recommended accessories:

Stopper
Proximity sensor
Three-position five-way sealed solenoid valve

LP/P - Dimensions



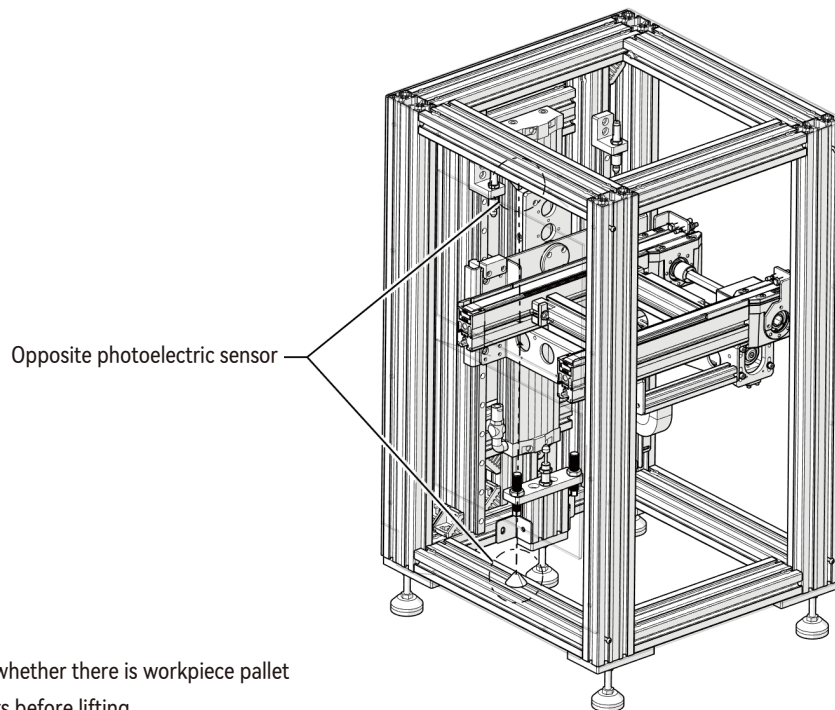
Note 1: Above specifications are for single workpiece pallet lifter.

Note 2: Default workpiece pallet height H_{wt} is 150mm.

Note 3: To load or unload workpiece on lifter, please specify.

Note 4: To add a photoelectric safety protection device, please specify.

Note: To use the lifter. The minimum conveyor height is 350mm. And the maximum conveyor height is 1500mm.

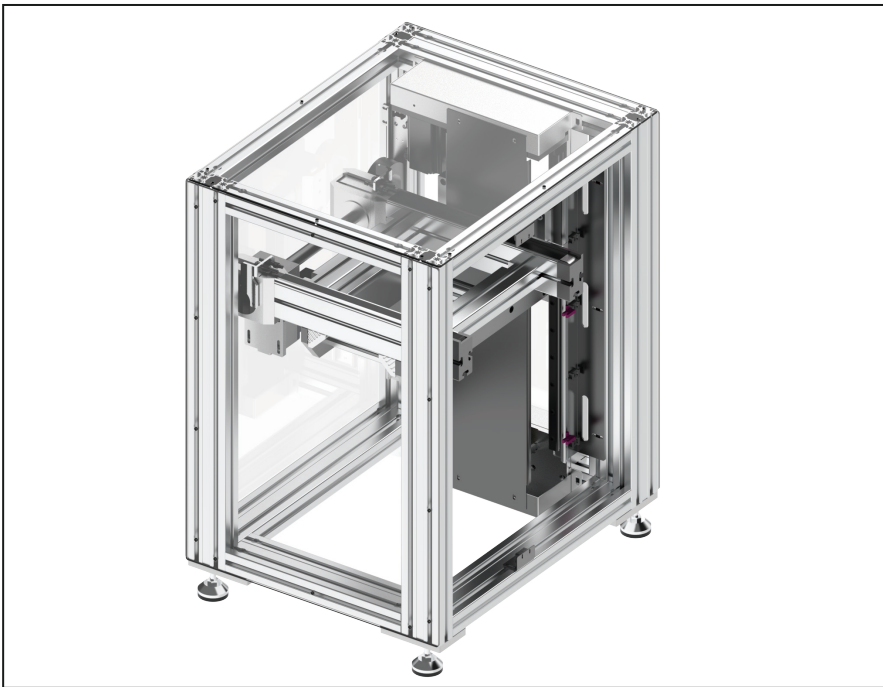


Opposite photoelectric sensor: To determine whether there is workpiece pallet on the connection point of lifter and conveyors before lifting.

Technical data

| | | |
|---|-----|--|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640(Support customization;) |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640(Support customization;) |
| Conveyor length(mm)* | L | L=Lwt+150 |
| Permitted maximum load(kg)* | | 30 |
| Top layer conveyor height range(mm)* | | ≤1500 |
| Bottom layer conveyor height range(mm)* | | ≥350 |
| Lift speed(mm/s)* | V | ≤300 |
| Lift cylinder bore diameter(mm)* | | 50 |
| Rated working air pressure* | | 0.4 ~ 0.8 MPa |
| Rated speed of conveyor(m/min)* | | 0,6,9,12,15,18(V=0 means no motor. Support customizing other speed;) |
| Motor type* | | Stepper motor(Including I/O type stepper drive) |
| Motor mounting location* | MA | ML(Middle-left), MR(Middle-right) |
| Working voltage* | U | DC: 48V 3.8A (Support customizing other working voltage;) |

LP/S Ball screw lifter



- ▶ Suitable for double layers or multiple layers conveyor system.
- ▶ Support customizing the quantity of workpiece pallet to be conveyed for each cycle
- ▶ Permitted maximum load: 30kg
- ▶ Permitted maximum lift speed: 500mm/s
- ▶ Stroke adjustable
- ▶ Support customization

Note: Default conveyor type for lifter is timing belt conveyor.

Delivery notes

Scope of delivery:

Ball screw lifter

Servo motor(Including pulse type servo drive)

*Note: Default cable length between motor and drive is 5 meters.

Stepper motor(Including I/O type stepper drive)

Slot photoelectric sensor:

NPN (3pcs, with 2 meters wire)

Opposite photoelectric sensor:

NPN (1 pair, with 2 meters wire)

Proximity sensor:

NPN (2pcs, with 2 meters wire)

Safety pin

Acrylic protective cover

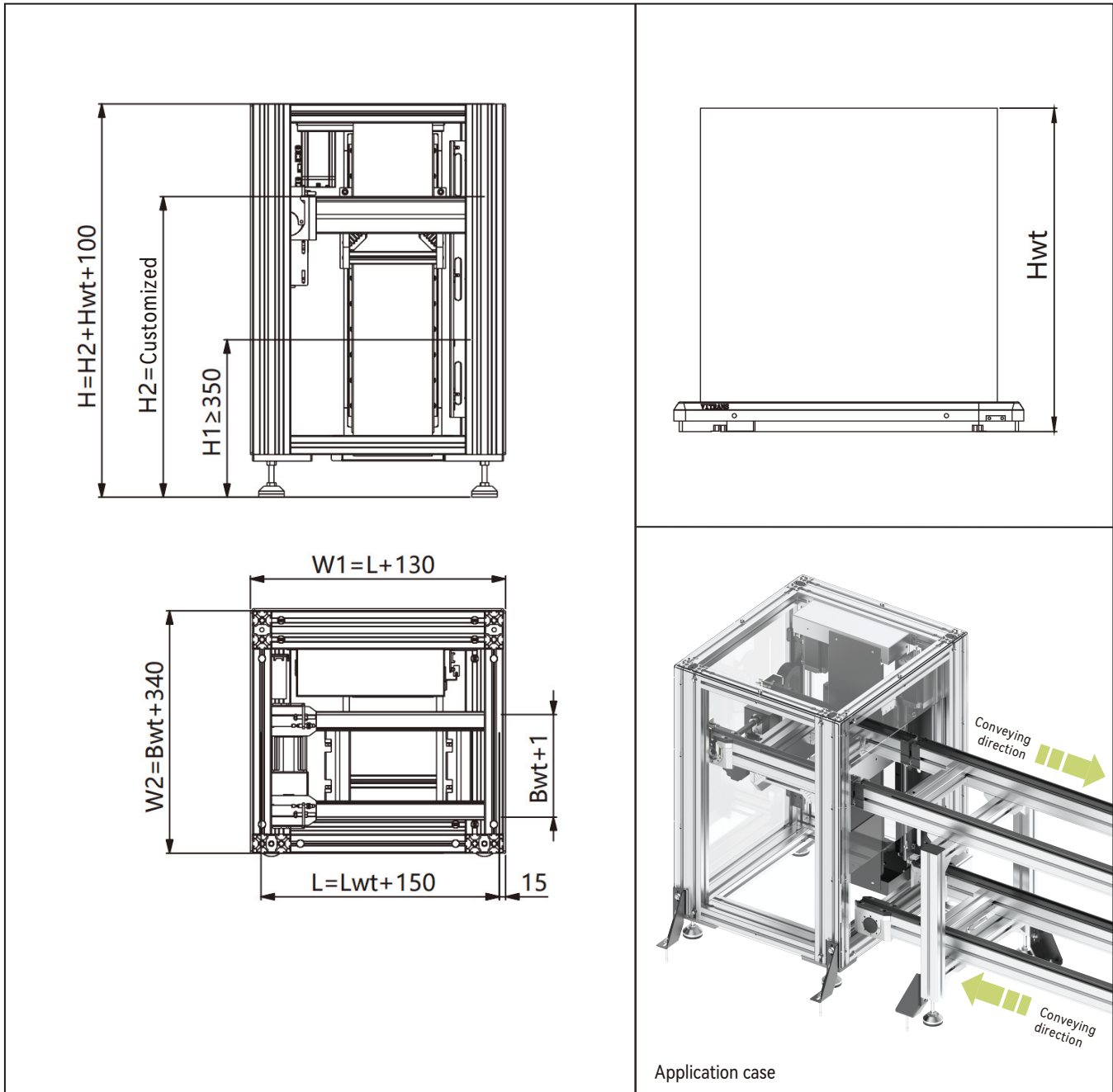
Condition on delivery:

Fully assembled

Recommended accessories:

Stopper

LP/S - Dimensions



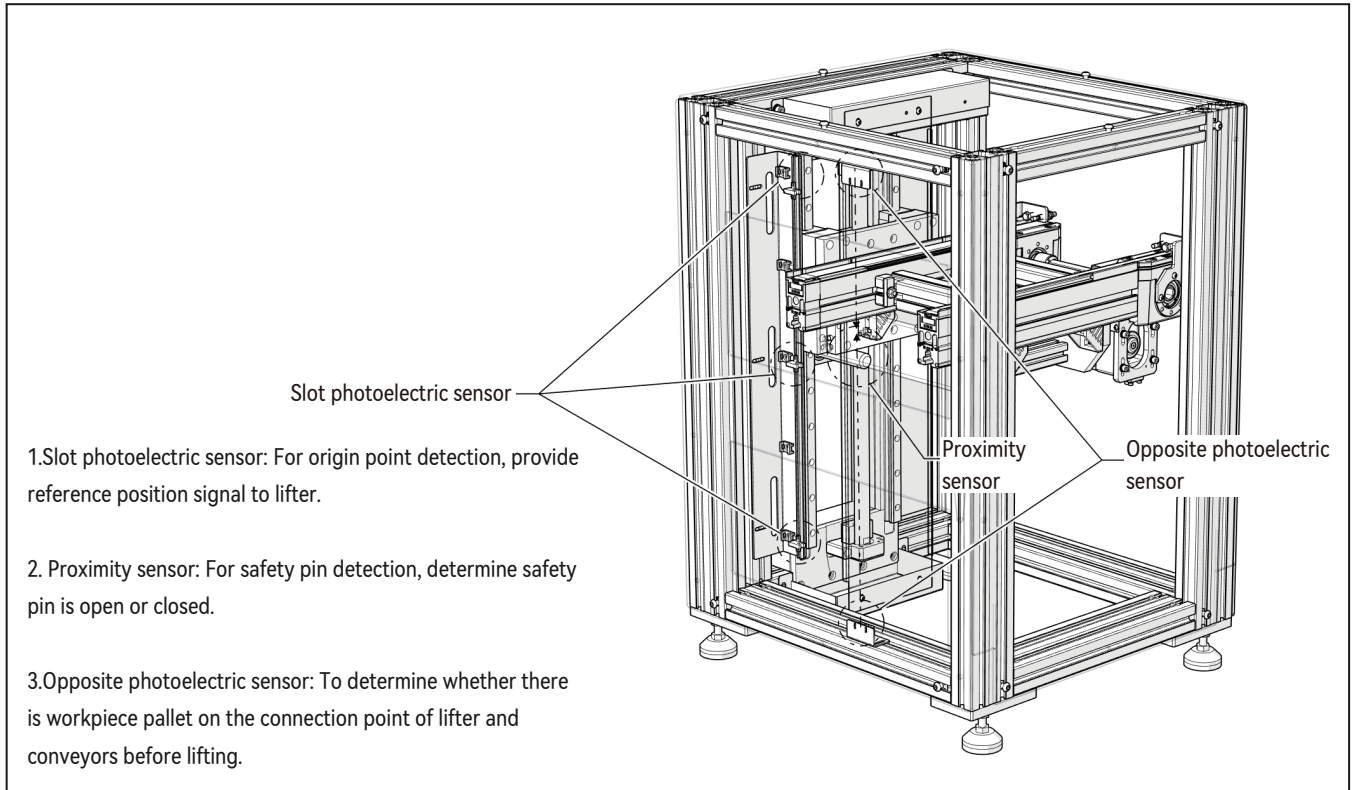
Note 1: Above specifications are for single workpiece pallet lifter.

Note 2: Default workpiece pallet height Hwt is 150mm.

Note 3: To load or unload workpiece on lifter, please specify.

Note 4: To add a photoelectric safety protection device, please specify.

Note: To use the lifter. The minimum conveyor height is 350mm. And the maximum conveyor height is 1500mm.



Technical data

| | | |
|---|-----|--|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640(Support customization;) |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640(Support customization;) |
| Conveyor length(mm)* | L | L=Lwt+150 |
| Permitted maximum load(kg)* | | 30(Support customization) |
| Top layer conveyor height range(mm)* | | ≤1500 |
| Bottom layer conveyor height range(mm)* | | ≥350 |
| Lift speed(mm/s)* | V | ≤500 |
| Rated speed of conveyor(m/min)* | | 0,6,9,12,15,18(V=0 means no motor. Support customizing other speed;) |
| Lift motor type* | | Servo motor(Including pulse type servo drive) |
| Conveyor motor type* | | Stepper motor(Including I/O type stepper drive) |
| Motor mounting location* | MA | ML(Middle-left), MR(Middle-right) |
| Working voltage of servo motor* | U | AC: 220V(Single phase) |
| Working voltage of stepper motor* | U | DC: 48V 3.8A(Support customizing other working voltage;) |
| Working frequency* | f | 50Hz |

Ordering information

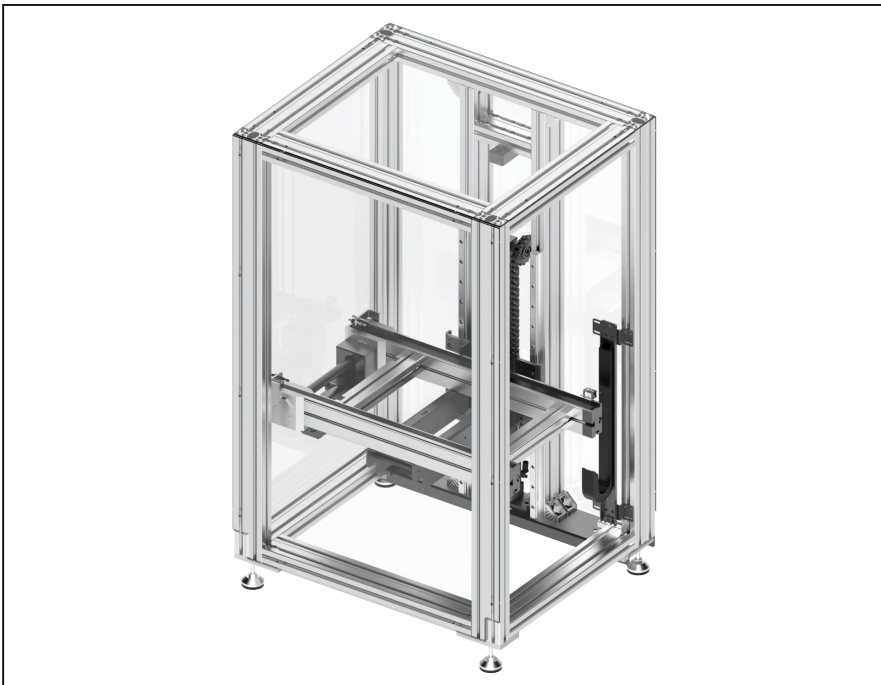
| | |
|---|---|
| LP/ <input type="checkbox"/> | Lifter type: LP/S LP/P LP/B |
| <input type="checkbox"/> | Conveyor type of lifter: BC2 / AC2 |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 / customized |
| L <input type="checkbox"/> | Workpiece pallet length: 160 / 240 / 320 / 400 / 480 / customized |
| V <input type="checkbox"/> | Rated speed: 0 1) / 6 / 9 / 12 / 15 / 18 / customized |
| <input type="checkbox"/> | Motor mounting location: ML(Middle-left), MR(Middle-right) |
| <input type="checkbox"/> | Quantity of workpiece pallet quantity to be lifted each cycle |
| <input type="checkbox"/> — <input type="checkbox"/> | Bottom layer conveyor height-Top layer conveyor height |
| SP | <p>Special requirements: a.Working voltage b.Working frequency c.Conveyor motor type</p> <p>d.Motor mounting location</p> <p>1) V=0 means no motor</p> <p>2) Support customizing lift speed, 1000mm/s maximum</p> |

Ordering example

LP/S—BC2—B320—L320—V12—ML—2—500—900

| | | | |
|---|--|--|----------------------------------|
| Lifter type: LP/S | Conveyor type of lifter: BC2 | Workpiece pallet width: Bwt=320 | Workpiece pallet length: Lwt=320 |
| Rated speed: 12 m/min | Motor mounting location: ML(Middle-Left) | Quantity of workpiece pallet quantity to be lifted each cycle: 2 | |
| Bottom layer conveyor height-Top layer conveyor height: 500-900 | | Special requirements: None | |

LP/C Pneumatic lifter



- ▶ Suitable for double layers conveyor system.
- ▶ Support customizing the quantity of workpiece pallet to be conveyed for each cycle
- ▶ Permitted maximum load: 50kg
- ▶ Permitted maximum lift speed: $\leq 300\text{mm/s}$
- ▶ Support customization

Note: Default conveyor type for lifter is timing belt conveyor.

Delivery notes

Scope of delivery:

Pneumatic lifter
 Speed motor (Including speed controller)
 Opposite photoelectric sensor:
 NPN (1 pair, with 2 meters wire)
 Magnetic switches:
 Two wires type (2pcs, with 500mm wire)
 Throttle valve ($\phi 10$)
 Check valve
 Acrylic protective cover

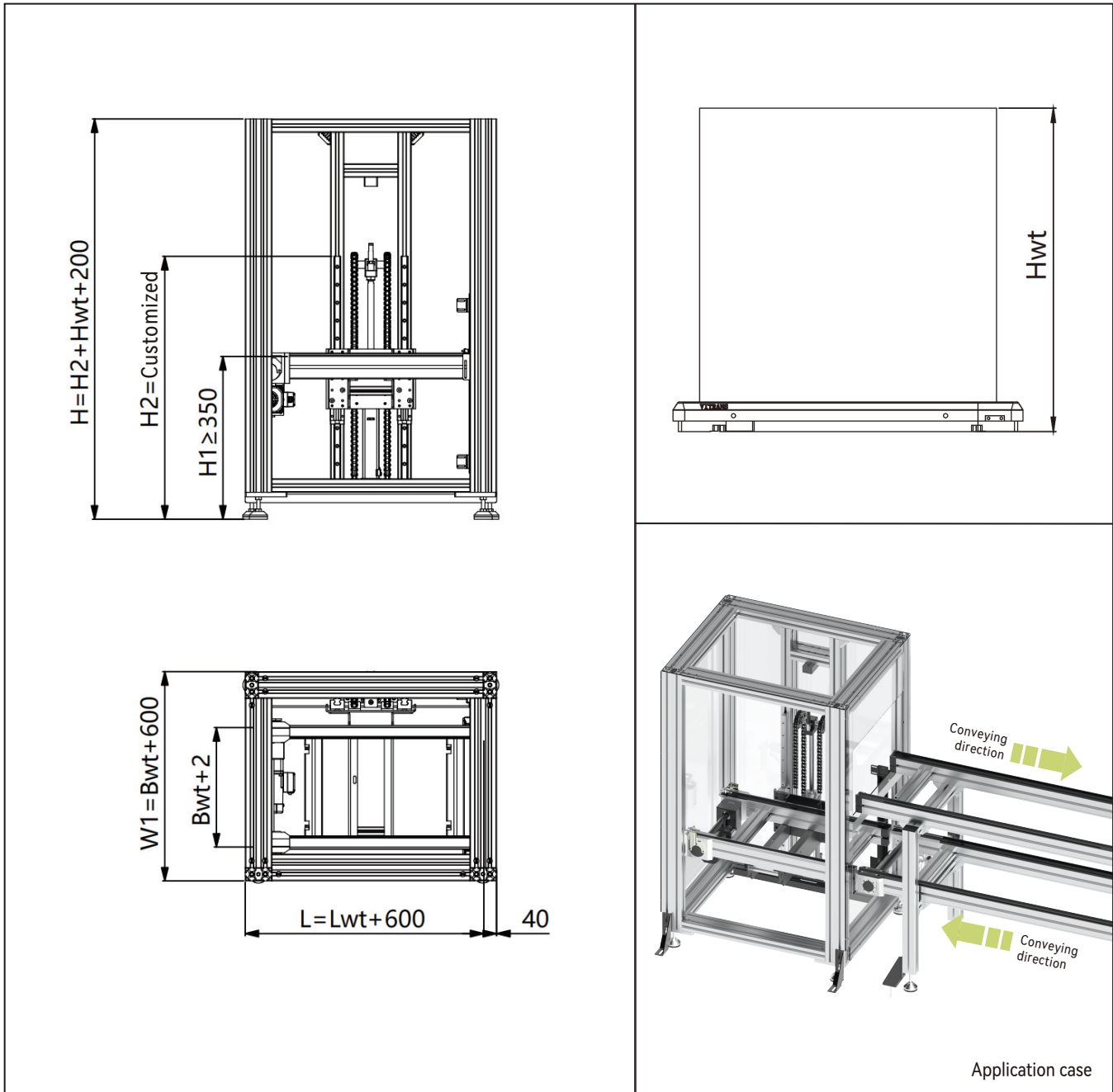
Condition on delivery:

Fully assembled

Recommended accessories:

Stopper
 Proximity sensor
 Three-position five-way sealed solenoid valve

LP/C - Dimensions



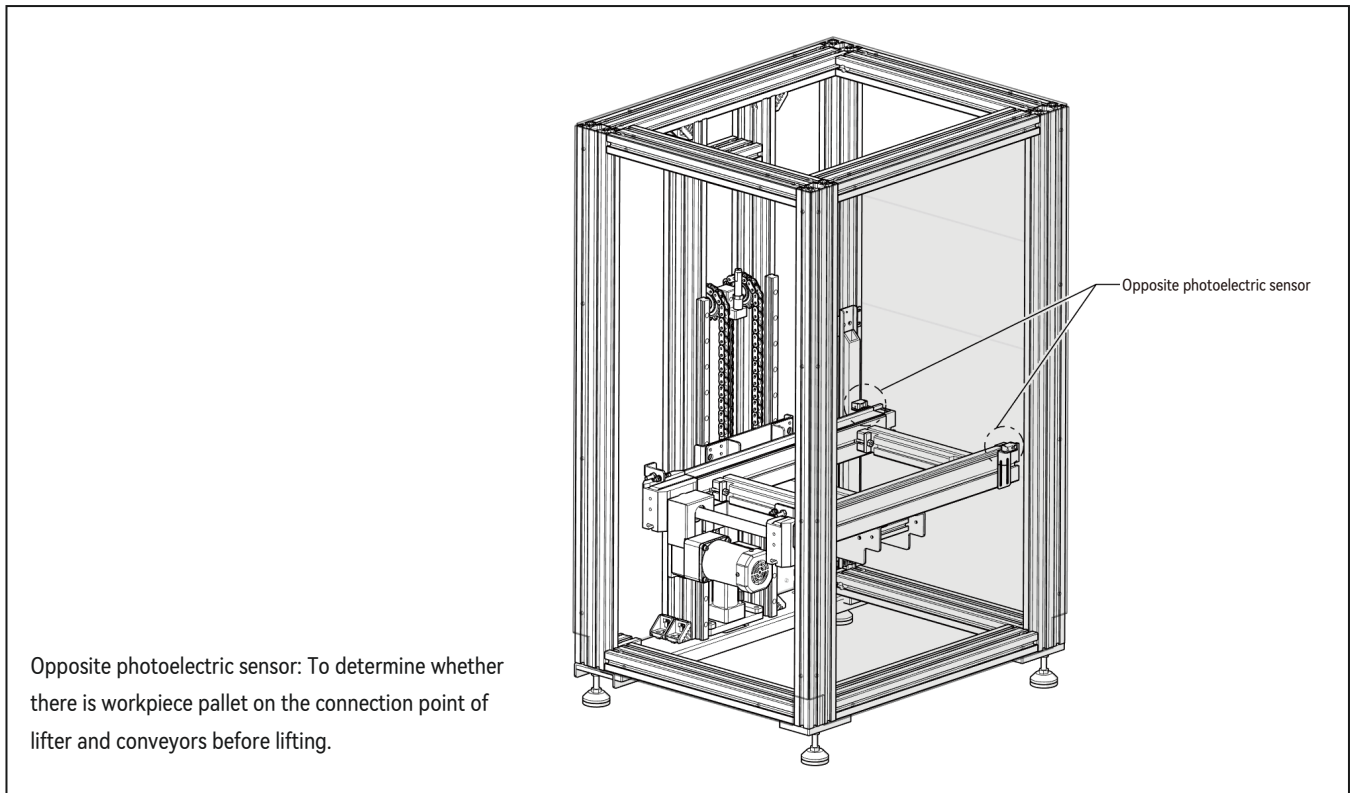
Note 1: Above specifications are for single workpiece pallet lifter.

Note 2: Default workpiece pallet height H_{wt} is 100mm.

Note 3: To load or unload workpiece on lifter, please specify.

Note 4: To add a photoelectric safety protection device, please specify.

Note: To use the lifter. The minimum conveyor height is 350mm. And the maximum conveyor height is 1500mm.



Technical data

| | | |
|---|-----|--|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640(Support customization;) |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640(Support customization;) |
| Conveyor length(mm)* | L | L=Lwt+150 |
| Permitted maximum load(kg)* | | 50 |
| Top layer conveyor height range(mm)* | | ≤1500 |
| Bottom layer conveyor height range(mm)* | | ≥350 |
| Lift speed(mm/s)* | V | ≤300 |
| Lift cylinder bore diameter(mm)* | | 80 |
| Rated working air pressure* | | 0.4 ~ 0.8 MPa |
| Rated speed of conveyor(m/min)* | | 0,6,9,12,15,18(V=0 means no motor. Support customizing other speed;) |
| Motor type* | | Speed motor (Including speed controller) |
| Motor mounting location* | MA | ML(Middle-left), MR(Middle-right) |
| Motor mounting location* | U | AC: 220V(Single phase) |
| Working frequency* | f | 50Hz |

Ordering information

| | |
|---|--|
| LP/C | Lifter type: LP/C |
| <input type="checkbox"/> | Conveyor type of lifter: BC2 / AC2 |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 / customized |
| L <input type="checkbox"/> | Workpiece pallet length: 160 / 240 / 320 / 400 / 480 / 560 / 640 / customized |
| V <input type="checkbox"/> | Rated speed: 0 1) / 6 / 9 / 12 / 15 / 18 / customized |
| <input type="checkbox"/> | Motor mounting location: ML(Middle-left), MR(Middle-right) |
| <input type="checkbox"/> | Quantity of workpiece pallet quantity to be lifted each cycle |
| <input type="checkbox"/> — <input type="checkbox"/> | Bottom layer conveyor height-Top layer conveyor height |
| SP | Special requirements: a.Working voltage b.Working frequency c.Motor connection d.Motor mounting location 1) V=0 means no motor |

Ordering example

LP/C—AC2—B320—L320—V12—ML—2—500—900

Lifter type: LP/C

Conveyor type of lifter: AC2

Workpiece pallet width: Bwt=320

Workpiece pallet length: Lwt=320

Rated speed: 12 m/min

Motor mounting location: ML(Middle-Left)

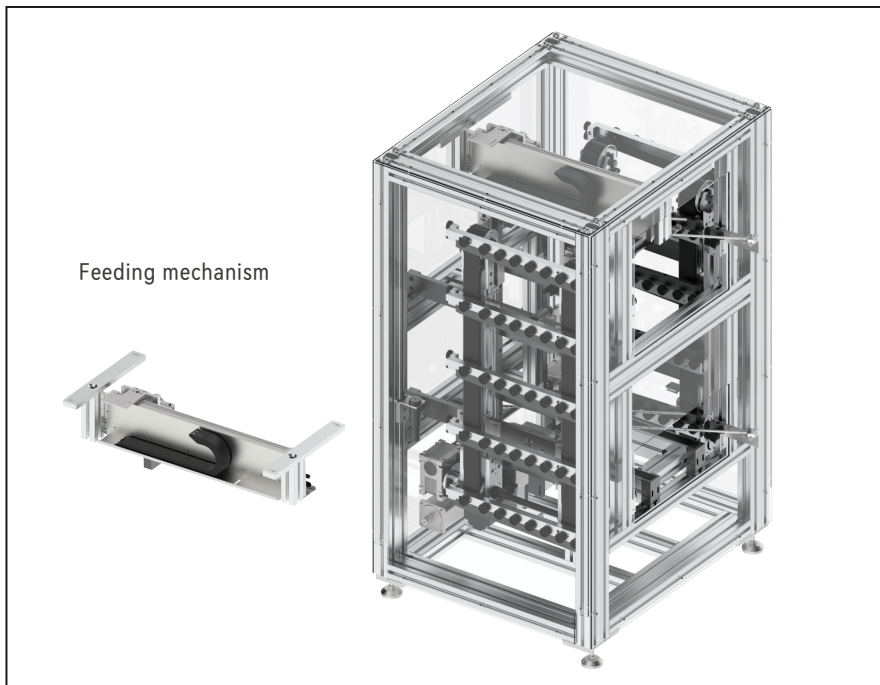
Quantity of workpiece pallet quantity to be lifted each cycle: 2

Bottom layer conveyor height-Top layer conveyor height: 500-900

Special requirements: None

LP/X Stepping lifter

Dividing the stroke into multiple small units and implementing a stepped pallet conveying method to effectively reduce the cycle time.



- ▶ Suitable for double layers conveyor system
- ▶ Support customizing the quantity of workpiece pallet to be conveyed for each cycle
- ▶ Permitted maximum load: 30kg
- ▶ Lift speed: $\leq 500\text{mm/s}$
- ▶ Stroke must be an integer multiple of 200mm or 250mm
- ▶ Support customization
- ▶ Working principle:
Multiple layers of inclined free rollers inside the lifter divide the stroke into a few steps. After finished workpiece pallet moving into the lifter through the free rollers by gravity, servo motor drive the layer going down one step in a short time, and the next workpiece pallet can continue move into the lifter. When workpiece pallet goes down to the last step, the powered timing belt conveyor convey the workpiece pallet out the lifter to the connected conveyor system.

Note: Default conveyor type for lifter is timing belt conveyor.

Delivery notes

Scope of delivery:

Stepping lifter

Servo motor(Including pulse type servo drive)

*Note: Default cable length between motor and drive is 5 meters.

Stepper motor(Including I/O type stepper drive)

Slot photoelectric sensor:

NPN (1pcs, with 2 meters wire)

Opposite photoelectric sensor:

NPN (3 pair, with 2 meters wire)

Proximity sensor:

NPN (2pcs, with 2 meters wire)

Safety pin

Acrylic protective cover

Condition on delivery:

Fully assembled

Recommended accessories:

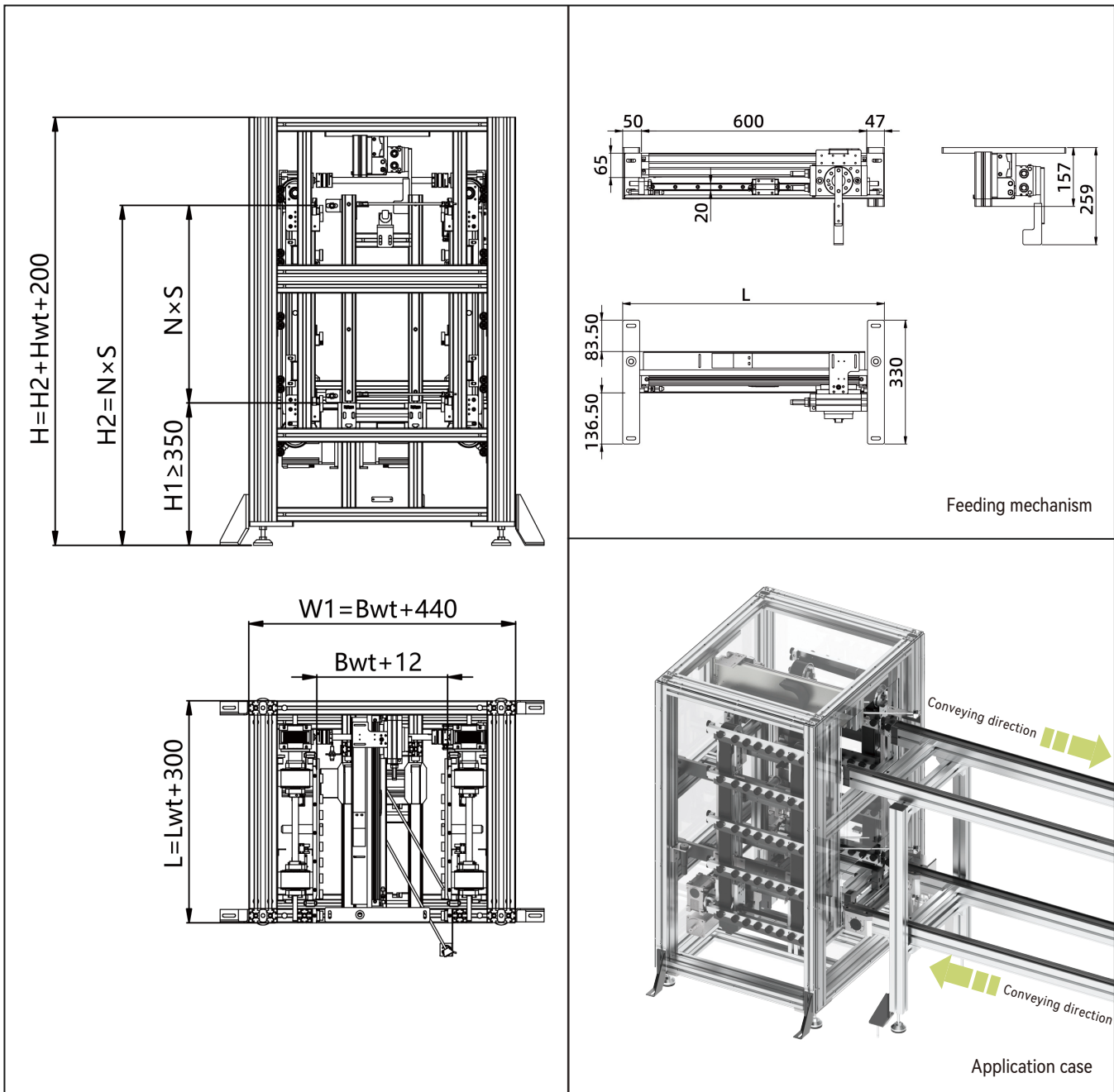
Stopper

Two-position five-way dual control solenoid valve

Feeding mechanism (Must be used when workpiece pallet is conveyed from bottom layer to top layer)

Note: Two cylinders are used in the feeding mechanism, including 4pcs magnetic switches (2 wires type)

LP/X (With feeding mechanism) - Dimensions



Note 1: Above specifications are for single workpiece pallet lifter.

Note 2: The stroke of stepping lifter must be an integer multiple of 200mm or 250mm.

Note 3: Default workpiece pallet height H_{wt} is 100mm.

When step distance is 200mm, workpiece pallet height H_{wt} cannot be over 100mm.

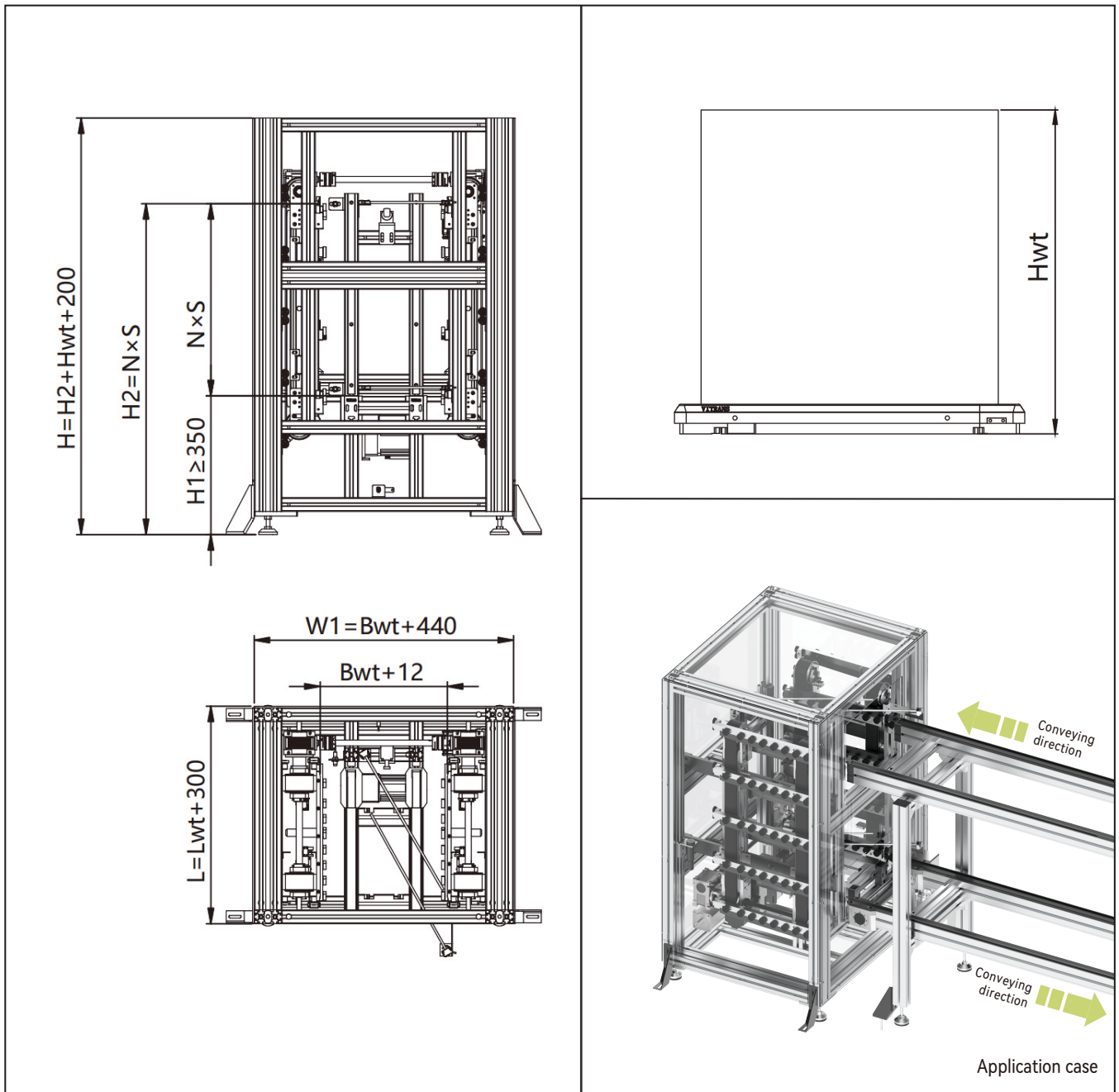
Note 4: To load or unload workpiece on lifter, please specify.

Note 5: To add a photoelectric safety protection device, please specify.

Note: To use the lifter. The minimum conveyor height is 350mm. And the maximum conveyor height is 1600mm.

N stand for the quantity of steps. S stand for step distance. And $N \times S$ is the stroke of lifter.

LP/X (Without feeding mechanism) - Dimensions



Note 1: Above specifications are for single workpiece pallet lifter.

Note 2: The stroke of stepping lifter must be an integer multiple of 200mm or 250mm.

Note 3: Default workpiece pallet height Hwt is 100mm.

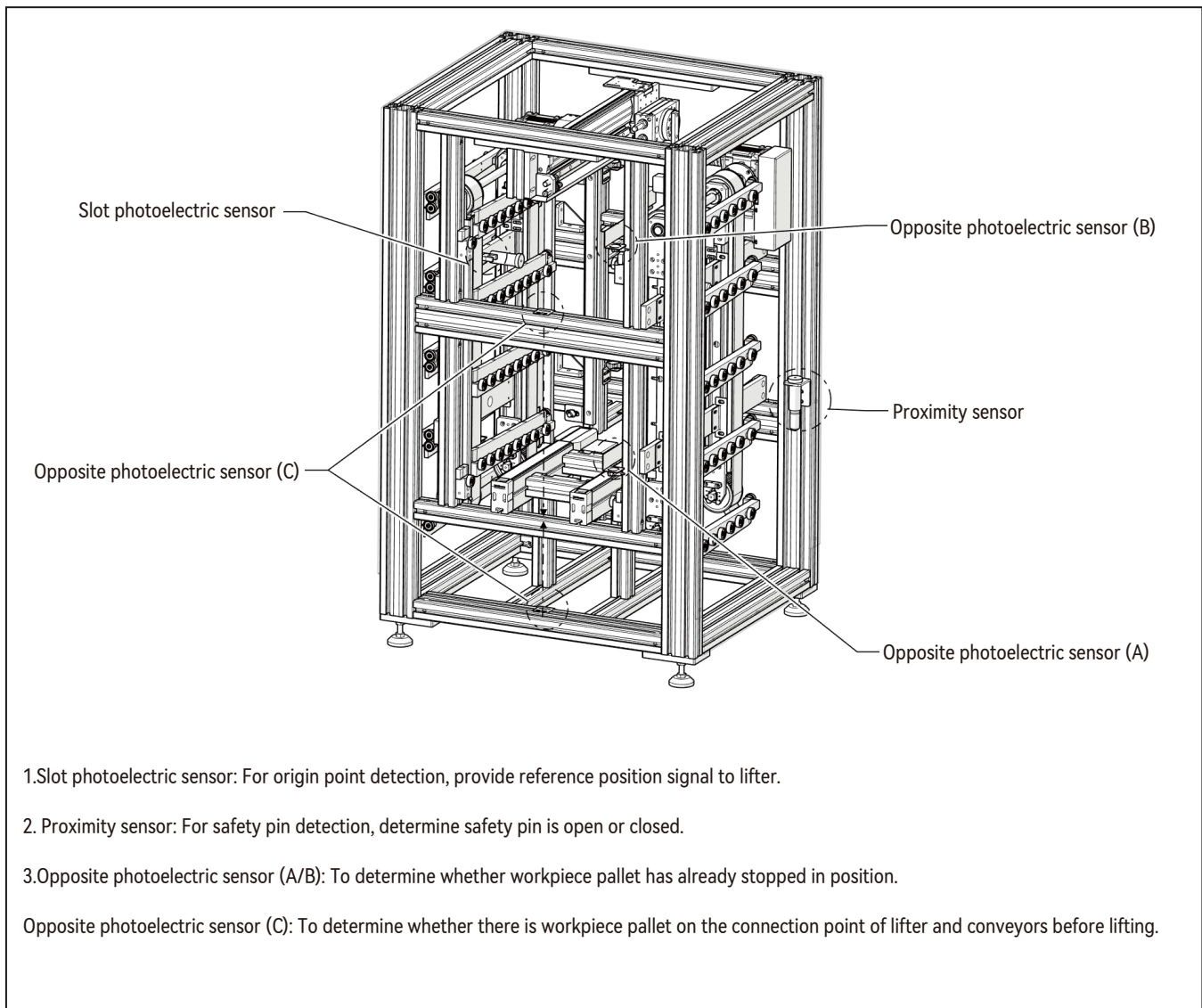
When step distance is 200mm, workpiece pallet height Hwt cannot be over 100mm.

Note 4: To load or unload workpiece on lifter, please specify.

Note 5: To add a photoelectric safety protection device, please specify.

Note: To use the lifter. The minimum conveyor height is 350mm. And the maximum conveyor height is 1600mm.

N stand for the quantity of steps. S stand for step distance. And N x S is the stroke of lifter.



Technical data

| | | |
|-------------------------------------|-----|--|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640(Support customization;) |
| Workpiece pallet length(mm)* | Lwt | 160,240,320,400,480,560,640(Support customization;) |
| Conveyor length(mm)* | L | L=Lwt+150 |
| Permitted maximum load(kg)* | | 30 |
| Permitted maximum of each step(kg)* | | 10 |
| Step distance* | | 200,250 |
| Height range* | | 350 ≤ Height of top and bottom conveyors < 1600 |
| Lift speed(mm/s)* | V | ≤500 |
| Rated speed of conveyor(m/min)* | | 0,6,9,12,15,18(V=0 means no motor. Support customizing other speed;) |
| Lift motor type* | | Servo motor(Including pulse type servo drive) |
| Conveyor motor type* | | Stepper motor(Including I/O type stepper drive) |
| Motor mounting location* | MA | ML(Middle-left), MR(Middle-right) |
| Working voltage of servo motor* | U | AC: 220V(Single phase) |
| Working voltage of stepper motor* | U | DC: 48V 3.8A(Support customizing other working voltage;) |
| Working frequency* | f | 50Hz |

Technical data of feeding mechanism

| | |
|---------------------------------------|---------------|
| Execution cylinder bore diameter(mm)* | 25 |
| Rotate cylinder bore diameter(mm)* | 50 |
| Push force(N)* | 120 |
| Working air pressure of cylinder* | 0.4 ~ 0.8 MPa |

Ordering information

| | |
|---|--|
| LP/X | Lifter type: LP/X |
| <input type="checkbox"/> | Conveyor type of lifter: BC2 / AC2 |
| B <input type="checkbox"/> | Workpiece pallet width: 160 / 240 / 320 / 400 / 480 / 560 / 640 / customized |
| L <input type="checkbox"/> | Workpiece pallet length: 160 / 240 / 320 / 400 / 480 / 560 / 640 / customized |
| V <input type="checkbox"/> | Rated speed: 0 1) / 6 / 9 / 12 / 15 / 18 / customized |
| <input type="checkbox"/> | Motor mounting location: ML(Middle-left), MR(Middle-right) |
| <input type="checkbox"/> | Quantity of workpiece pallet quantity to be lifted each cycle |
| <input type="checkbox"/> - <input type="checkbox"/> | Bottom layer conveyor height-Top layer conveyor height |
| <input type="checkbox"/> | Stepper distance: 200mm or 250mm |
| <input type="checkbox"/> | Conveying direction: Down(Convey workpiece pallet from top conveyor to bottom conveyor) Up(Convey workpiece pallet from bottom conveyor to top conveyor) (Note: When conveying direction is UP, a feed mechanism must be used) |
| SP | Special requirements: a.Working voltage b.Working frequency c.Motor connection d.Motor mounting location e.Other motor type 1) V=0 means no motor |

Ordering example

LP/X—BC2—B320—L320—V12—ML—2—500—900—200—Down

| | | | |
|---|--|--|----------------------------------|
| Lifter type: LP/X | Conveyor type of lifter: BC2 | Workpiece pallet width: Bwt=320 | Workpiece pallet length: Lwt=320 |
| Rated speed: 12 m/min | Motor mounting location: ML(Middle-Left) | Quantity of workpiece pallet quantity to be lifted each cycle: 2 | |
| Bottom layer conveyor height-Top layer conveyor height: 500-900 | | Stepper distance: 200 | Conveying direction: Down |
| Special requirements: None | | | |

09

Transportation control

The modular units for transportation control are used to stop workpiece pallet or detect workpiece pallet location.

SG—Pneumatic stopper

SG/D-60—Pneumatic stopper

SG/D-150—Pneumatic stopper

SG/D-200—Pneumatic stopper

Stopper is used to stop and separate workpiece pallets in work station.

SG/V—Double acting damper

Damper is used to stop workpiece pallet when it is conveyed to the longitudinal conveyor by lift and transfer unit.

SG/L—Slide stopper

The slide stopper is used with lift and transfer unit to divert workpiece pallet to different longitudinal conveyors.

SG/R—Return stopper

The return stop prevents the rebound impact of the workpiece pallet from the stopper.

WB2 — Rocker

The rocker is used for area monitoring. It can also be used as a damper.

ST2 — Stop block

The stop block is used individually or together with damper to stop workpiece pallet when it is conveyed to the longitudinal conveyor by lift and transfer unit.

ZJ/S—Proximity sensor bracket

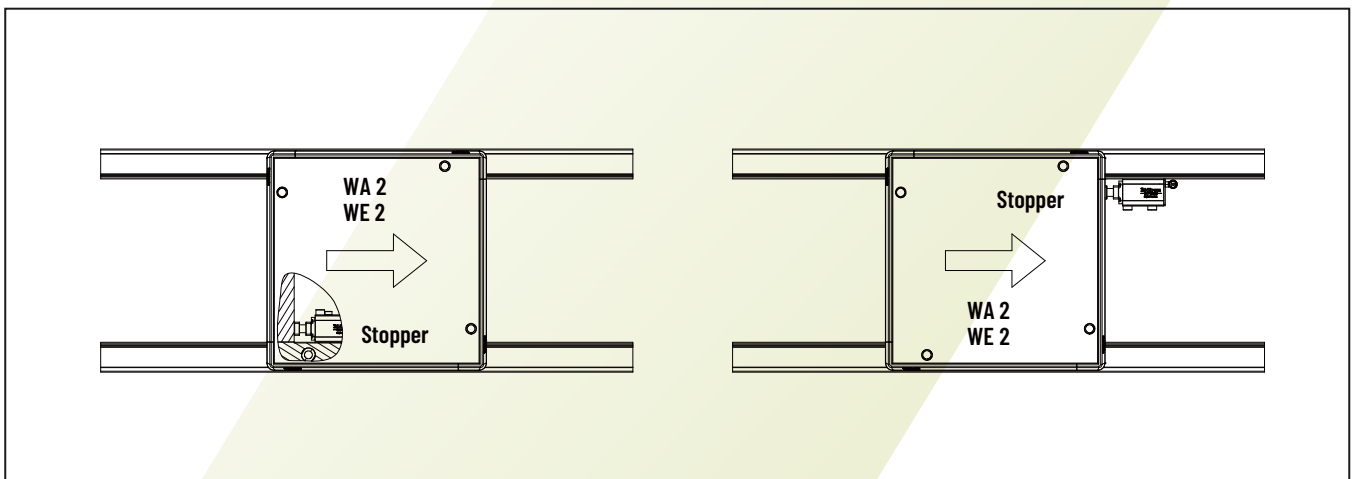
It is used to fix an M12 sensor in place for lateral sensing of the workpiece pallet position.

ZJ/U—Proximity sensor bracket

It is used to fix an M12 sensor for inquiry of the workpiece pallet position from below.

ZJ/UV—Proximity sensor bracket

It is used to fix an M12 sensor on SG stopper for inquiry of the workpiece pallet position from below.



The stopper can be installed at left or right side of the conveyor. Installation space can be saved when stopper is installed at the right side of conveyor to stop workpiece inner edge.

SG Pneumatic stopper

After the compressed air is released, the stopper is held by in the blocking position by a spring to stop workpiece pallets.



Delivery notes

Scope of delivery:

SGPneumatic stopper
Assembly kit
Air connector(L type- $\phi 6$)

Condition on delivery:

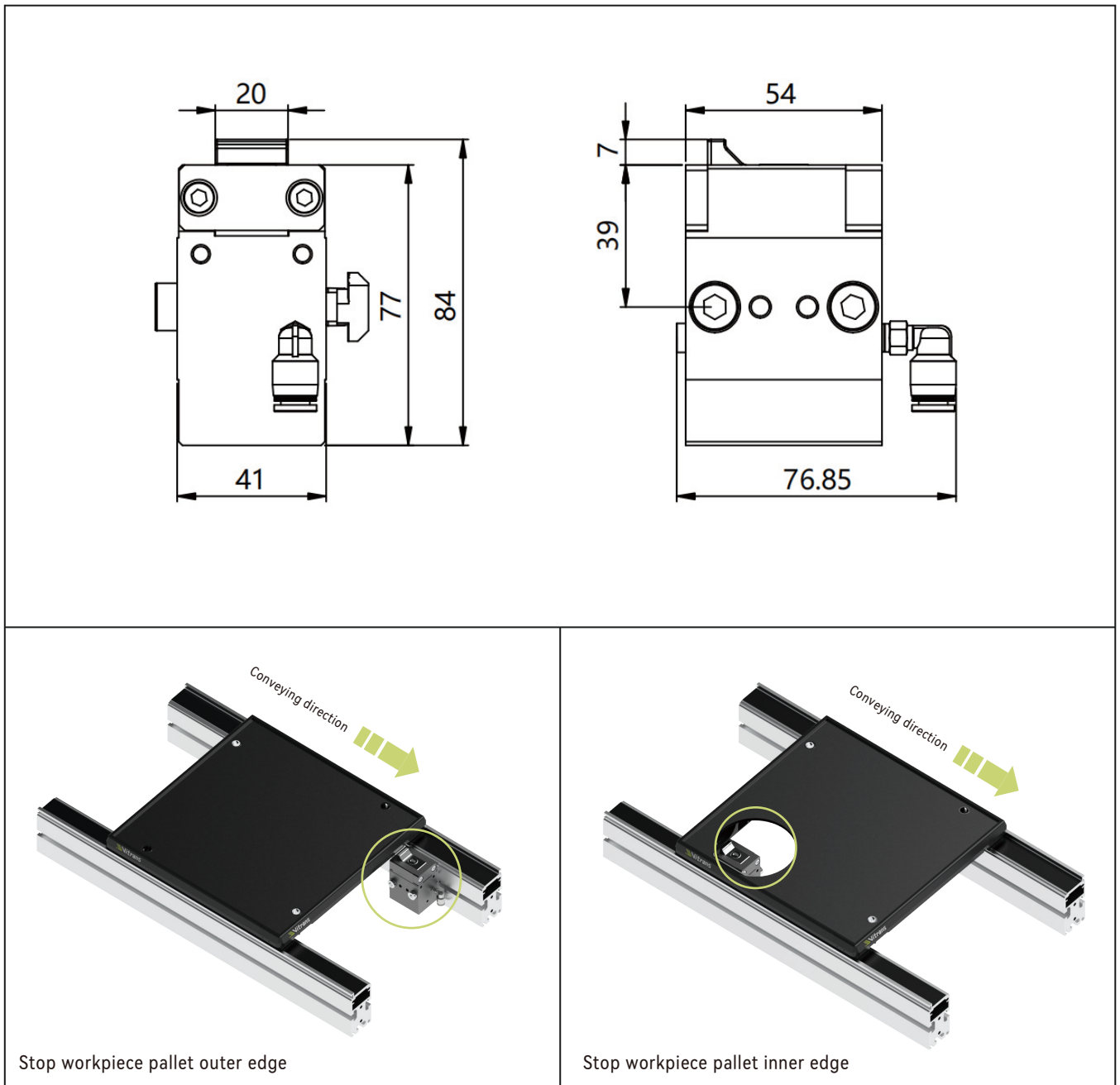
Fully assembled

Recommended accessories:

Proximity sensor(M12)
Proximity sensor bracket
Two-position three-way solenoid valve
Throttle valve($\phi 6$)

- ▶ Pneumatic stopper
- ▶ Installed at the inner side of conveyor section
- ▶ Reversible operation not possible
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Note: Workpiece pallets may arch up when turning on the conveyor if the quantity of accumulated workpiece pallet is over 3 pieces. This phenomenon can be solved by reducing the accumulated workpiece pallet quantity.

SG - Dimensions

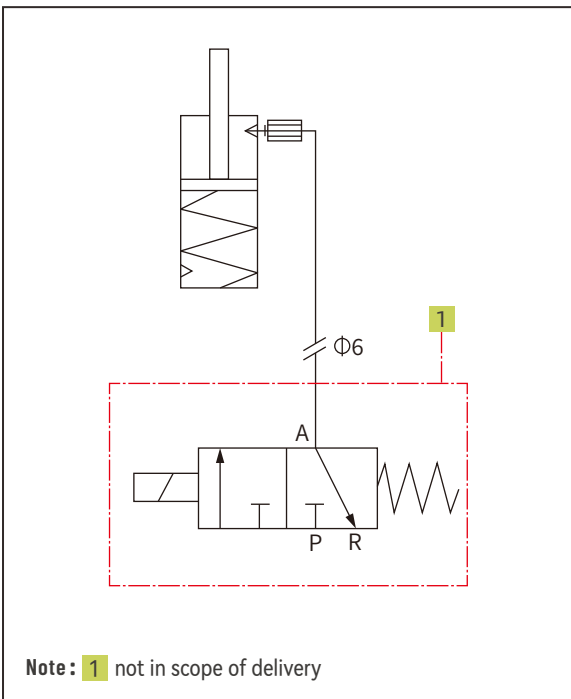


| | |
|---------------------|------------|
| Product description | Stopper |
| Model | SG.PN.0102 |

Permitted load of stopper under different conveying speed :

| Permitted workpiece pallet weight M (kg) | Rated speed V (m/min) |
|--|-----------------------|
| 160 | 6 |
| 110 | 9 |
| 90 | 12 |
| 70 | 15 |
| 50 | 18 |
| 35 | 24 |

Circuit diagram :



SG/D-60 Pneumatic stopper

The stopper is used to stop workpiece pallets at designated position.



Delivery notes

Scope of delivery:

Pneumatic stopper
 Assembly kit
 Air connector(L type- $\phi 6$)

Condition on delivery:

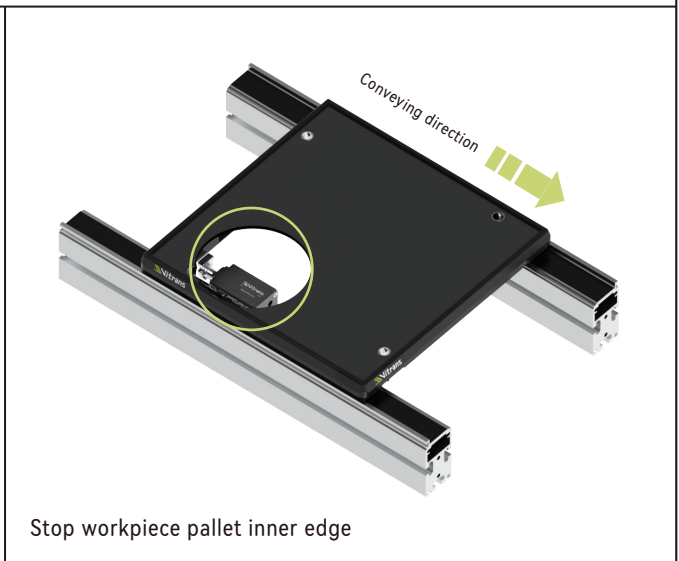
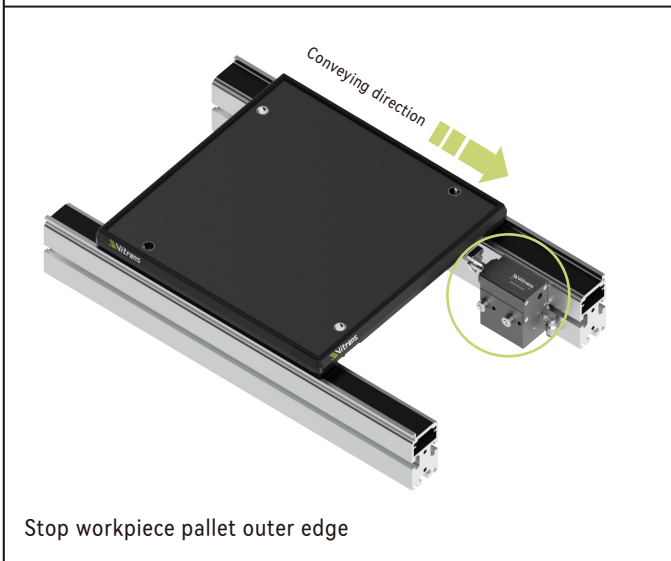
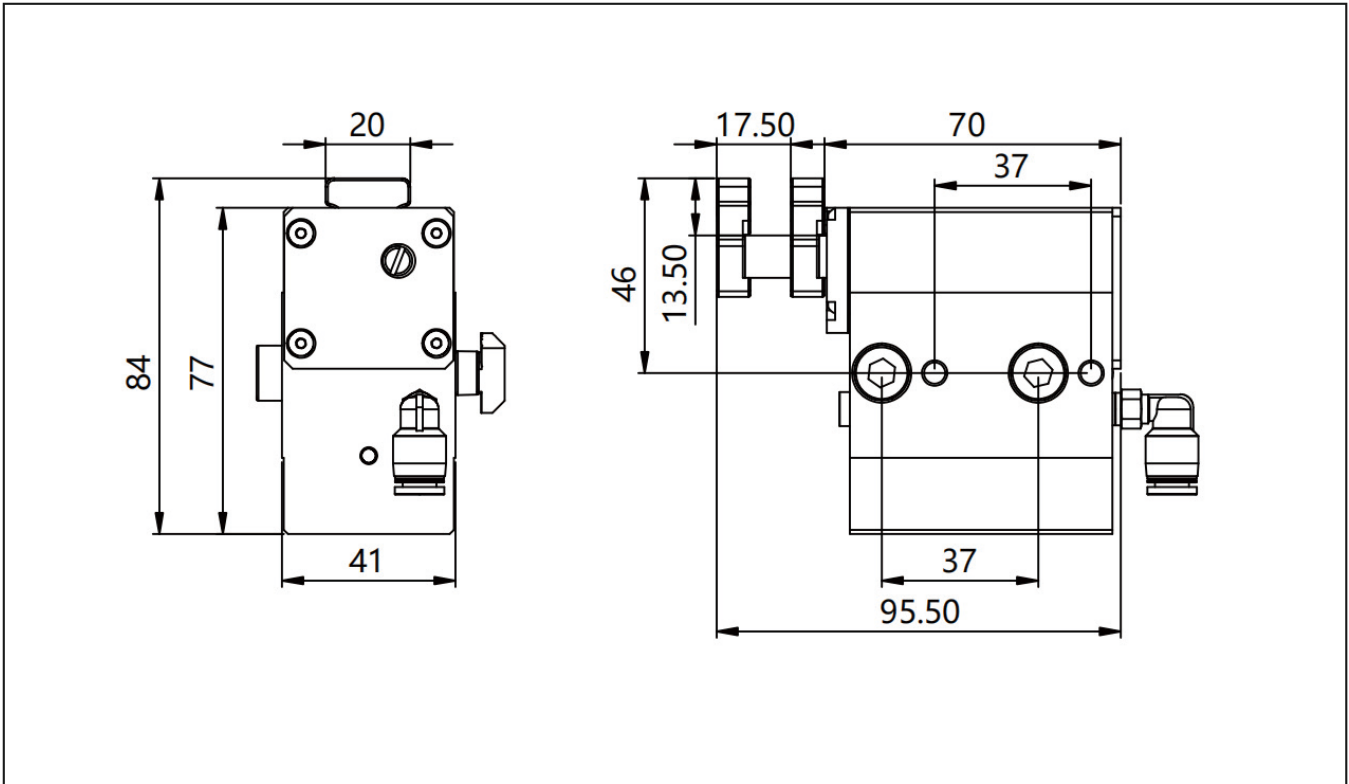
Fully assembled

Recommended accessories:

Proximity sensor(M12)
 Proximity sensor bracket
 Two-position three-way solenoid valve
 Throttle valve($\phi 6$)

- ▶ Pneumatic stopper
- ▶ Damping force can reduce the impact on workpiece pallet
- ▶ Continuously adjustable damping
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Damping force only act on the first accumulating workpiece pallet
- ▶ Single acting stopper, The push rod cannot retract actively
- ▶ Note: Workpiece pallets may arch up when turning on the conveyor if the quantity of accumulated workpiece pallet is over 3 pieces. This phenomenon can be solved by reducing the accumulated workpiece pallet quantity.

SG/D-60 - Dimensions



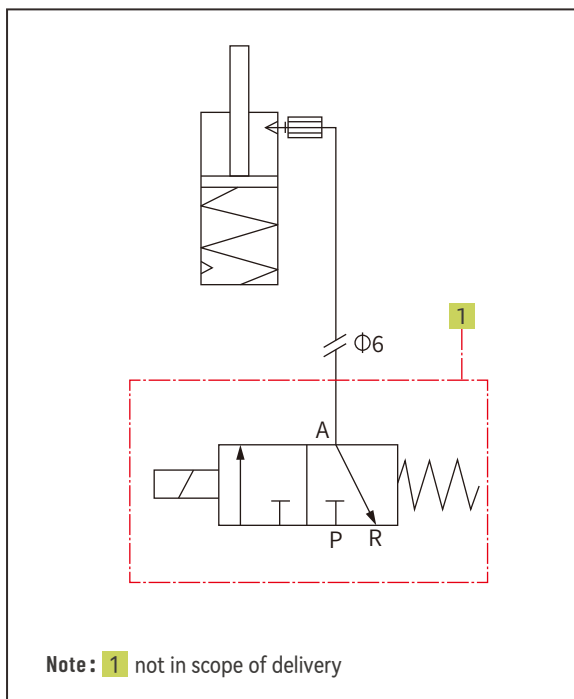
| | |
|---------------------|-------------------|
| Product description | Pneumatic stopper |
| Model | SG/D.PN.0201 |

Permitted load of stopper under different conveying speed :

| Permitted workpiece pallet weight M (kg) | Rated speed V (m/min) |
|--|-----------------------|
| 60 | 6 |
| 40 | 9 |
| 35 | 12 |
| 30 | 15 |
| 30 | 18 |
| 24 | 24 |

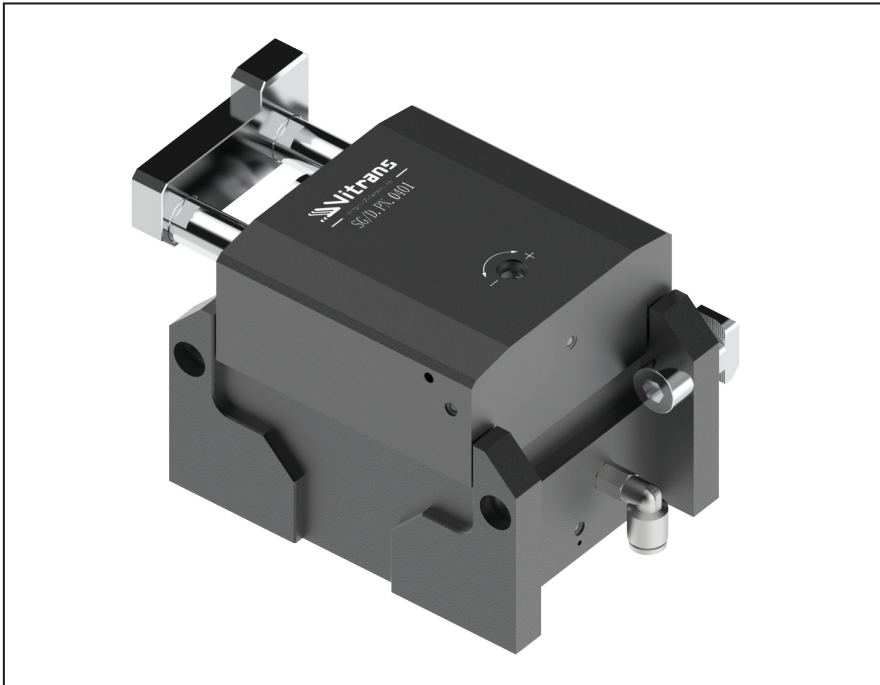
Note 1: In order to use the stopper normally, the mass of the workpiece pallet must not be less than 2.5 kg when the conveying speed is 6 m/min.

Note 2: The push rod of stopper may not return to the origin position and the workpiece pallet cannot be stopped at the specified position when the mass of the workpiece pallet is less than 2.5 kg.

Circuit diagram :

SG/D-150 Pneumatic stopper

The stopper is used to stop workpiece pallets at designated position.



Delivery notes

Scope of delivery:

Pneumatic stopper
Assembly kit
Air connector(L type- $\phi 6$)

Condition on delivery:

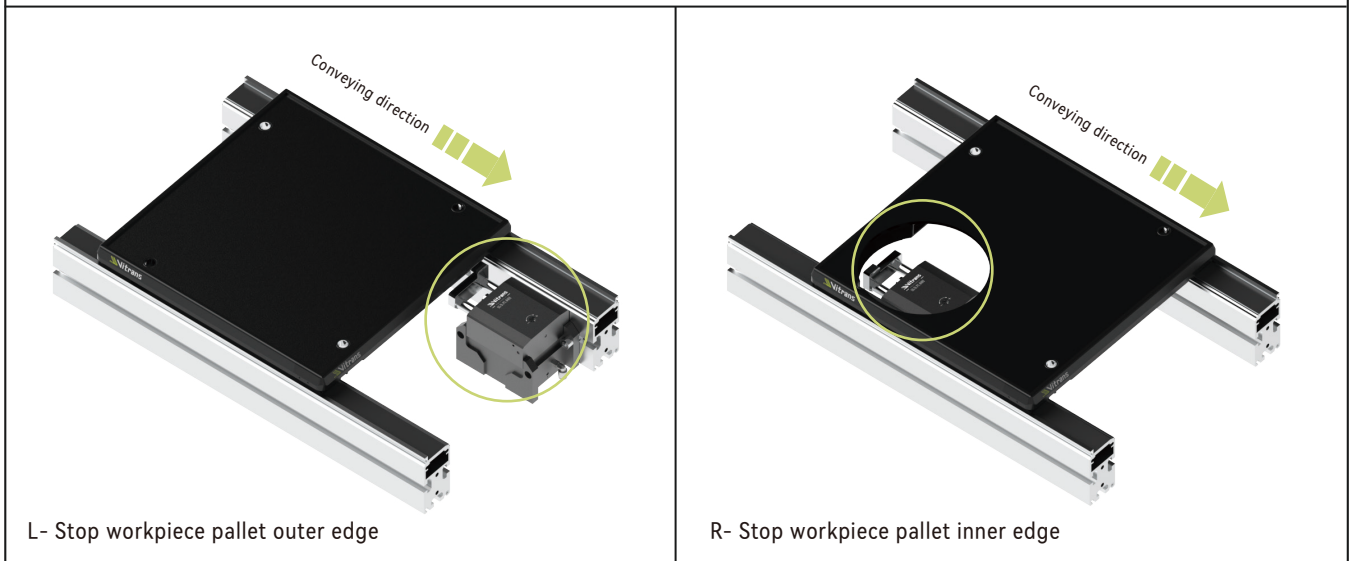
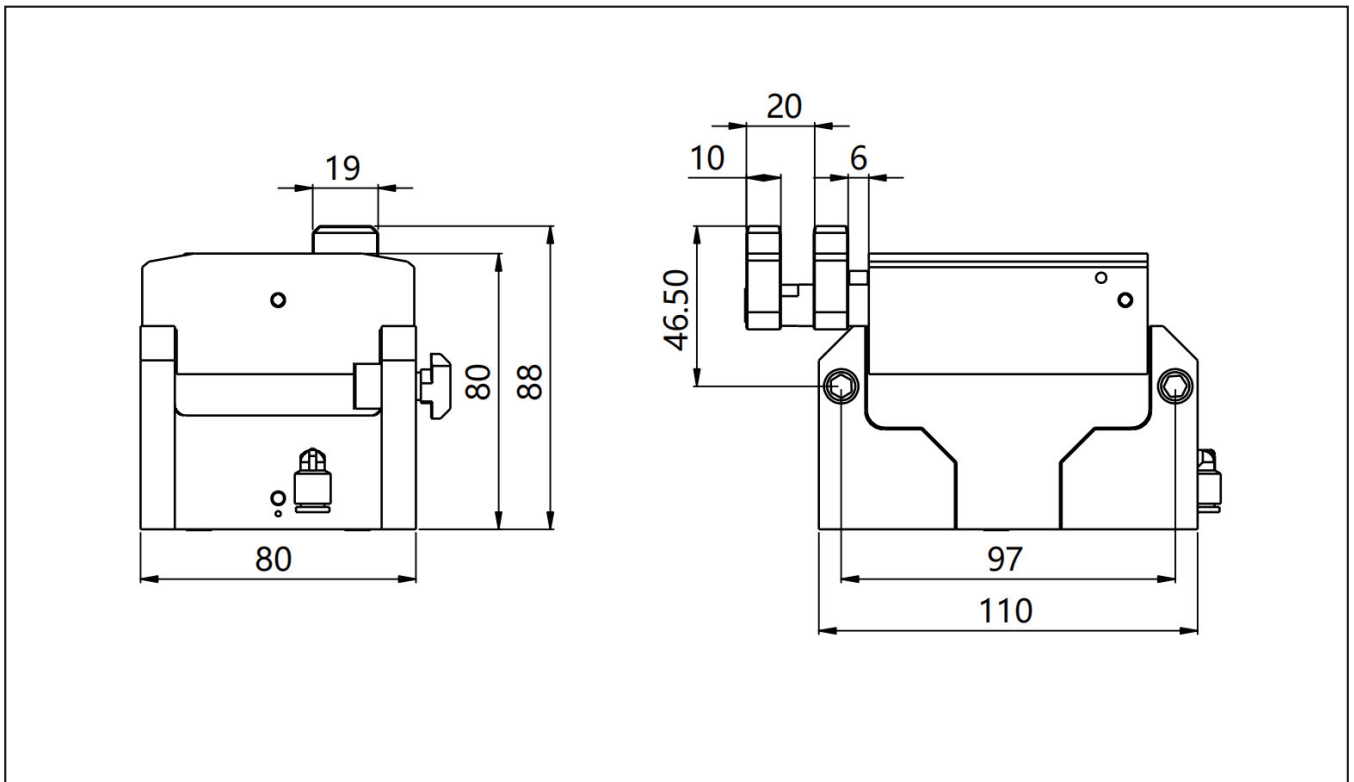
Fully assembled

Recommended accessories:

Proximity sensor(M12)
Proximity sensor bracket
Two-position three-way solenoid valve
Throttle valve($\phi 6$)

- ▶ Pneumatic stopper
- ▶ Damping force can reduce the impact on workpiece pallet
- ▶ Continuously adjustable damping
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Damping force only act on the first accumulating workpiece pallet
- ▶ Single acting stopper, The push rod cannot retract actively
- ▶ Note: Workpiece pallets may arch up when turning on the conveyor if the quantity of accumulated workpiece pallet is over 3 pieces. This phenomenon can be solved by reducing the accumulated workpiece pallet quantity.

SG/D-150 - Dimensions



| | |
|----------------------------|--|
| Product description | Pneumatic dampened stopper |
| Model | SG/D.PN.0401-L(Stop workpiece pallet outer edge) |
| | SG/D.PN.0401-R(Stop workpiece pallet inner edge) |

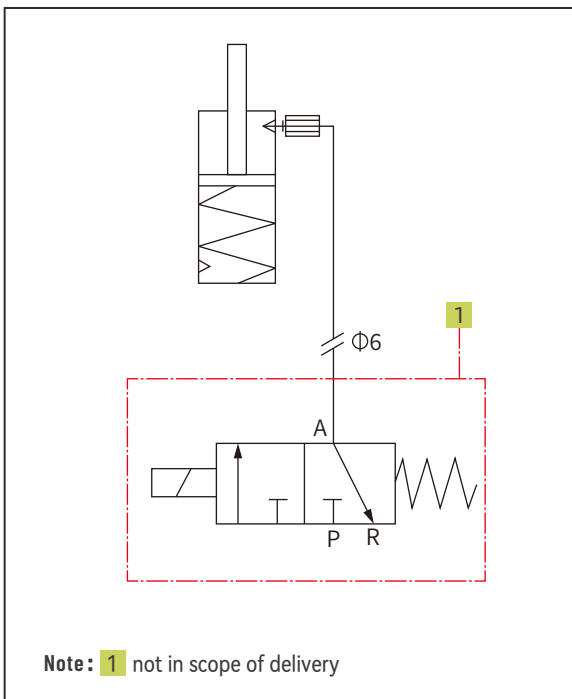
Permitted load of stopper under different conveying speed :

| Permitted workpiece pallet weight M (kg) | Rated speed V (m/min) |
|--|-----------------------|
| 150 | 6 |
| 120 | 9 |
| 105 | 12 |
| 90 | 15 |
| 70 | 18 |
| 55 | 24 |

Note 1: In order to use the stopper normally, the mass of the workpiece pallet must not be less than 8 kg when the conveying speed is 6 m/min.

Note 2: The push rod of stopper may not return to the origin position and the workpiece pallet cannot be stopped at the specified position when the mass of the workpiece pallet is less than 8 kg.

Circuit diagram :



SG/D-200 Pneumatic stopper

The stopper is used to stop workpiece pallets at designated position.



Delivery notes

Scope of delivery:

Pneumatic stopper
 Assembly kit
 Air connector(L type-φ6)

Condition on delivery:

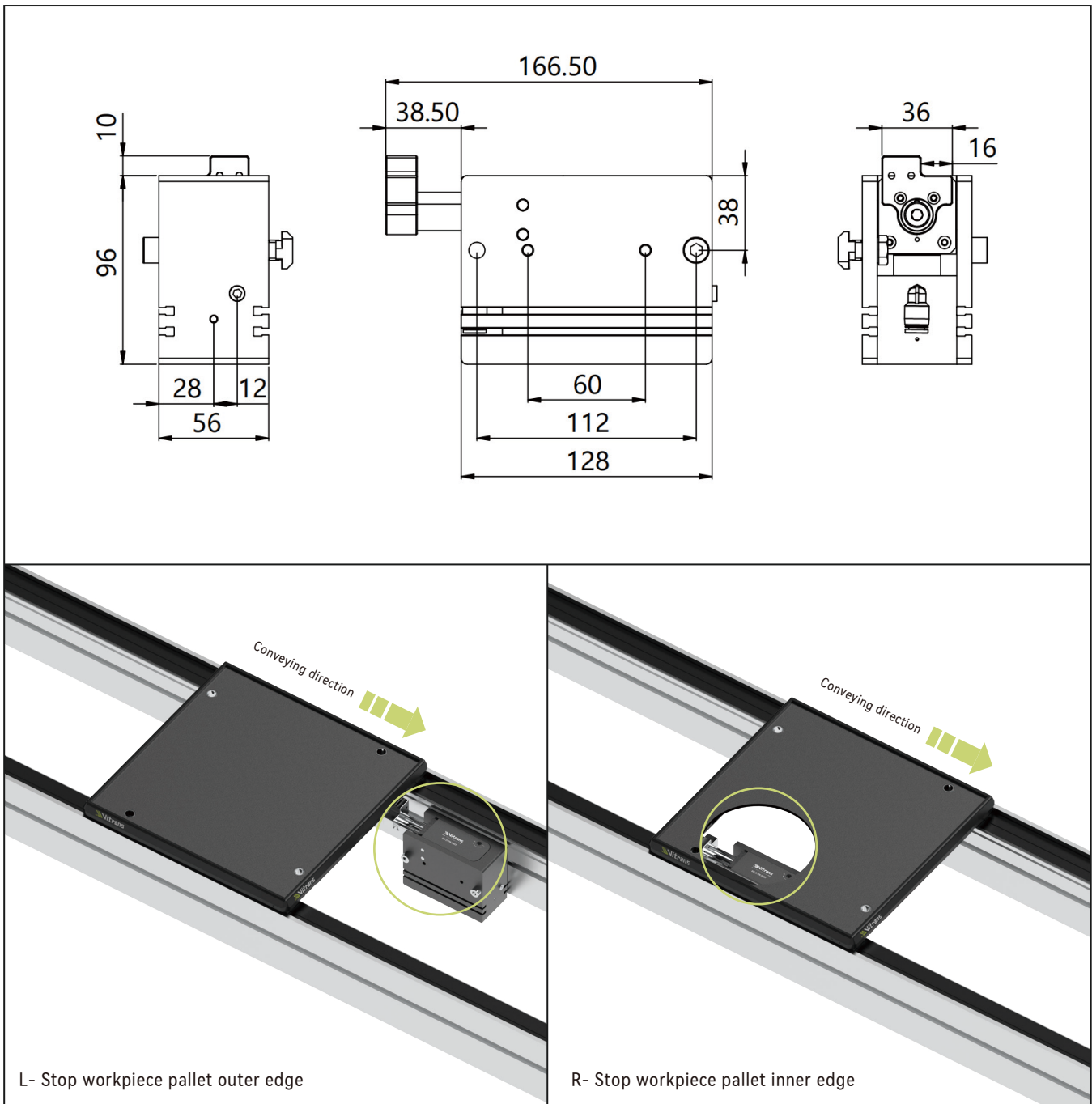
Fully assembled

Recommended accessories:

Proximity sensor(M12)
 Proximity sensor bracket
 Two-position three-way solenoid valve
 Throttle valve(φ6)

- ▶ Pneumatic stopper
- ▶ Damping force can reduce the impact on workpiece pallet
- ▶ Continuously adjustable damping
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Damping force only act on the first accumulating workpiece pallet
- ▶ Single acting stopper, The push rod cannot retract actively
- ▶ Note: Workpiece pallets may arch up when turning on the conveyor if the quantity of accumulated workpiece pallet is over 3 pieces. This phenomenon can be solved by reducing the accumulated workpiece pallet quantity.

SG/D-200 - Dimensions



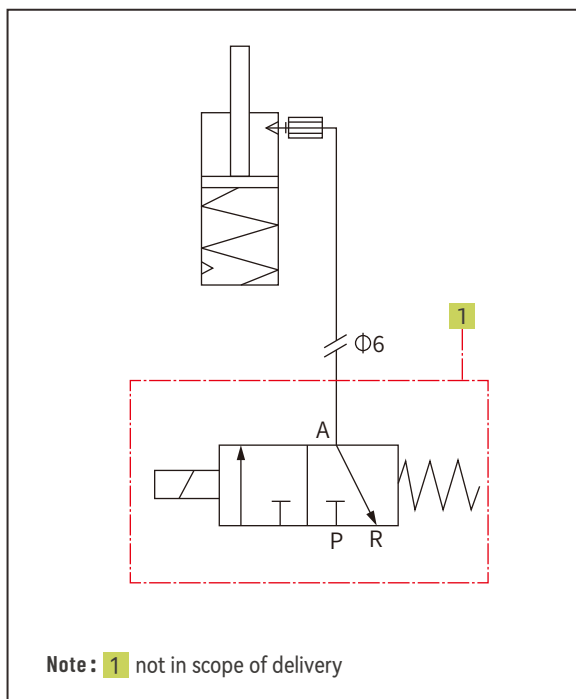
| | |
|----------------------------|--|
| Product description | Pneumatic dampened stopper |
| Model | SG/D.PN.0403-L(Stop workpiece pallet outer edge) |
| | SG/D.PN.0403-R(Stop workpiece pallet inner edge) |

Permitted load of stopper under different conveying speed :

| Permitted workpiece pallet weight M (kg) | Rated speed V (m/min) |
|--|-----------------------|
| 200 | 6 |
| 140 | 9 |
| 100 | 12 |
| 100 | 15 |
| 100 | 18 |
| 55 | 24 |

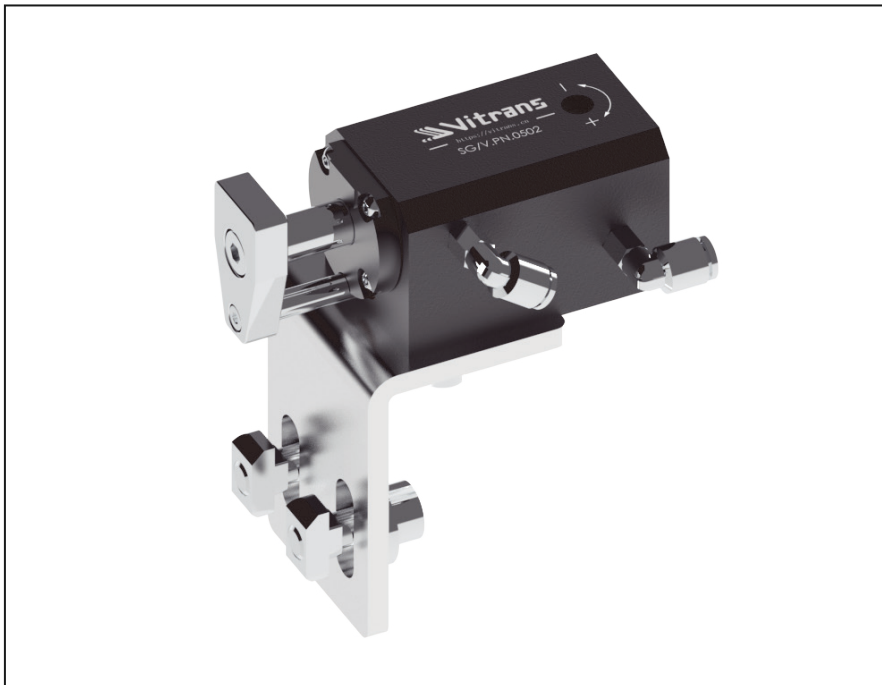
Note 1: In order to use the stopper normally, the mass of the workpiece pallet must not be less than 2.5 kg when the conveying speed is 6 m/min.

Note 2: The push rod of stopper may not return to the origin position and the workpiece pallet cannot be stopped at the specified position when the mass of the workpiece pallet is less than 2.5 kg.

Circuit diagram :

SG/V Double acting damper

Stop workpiece pallet when it is conveyed to the longitudinal conveyor by lift and transfer unit.



Delivery notes

Scope of delivery:

Double acting damper
Bracket and assembly kit
Air connector (L type- $\phi 6$)

Condition on delivery:

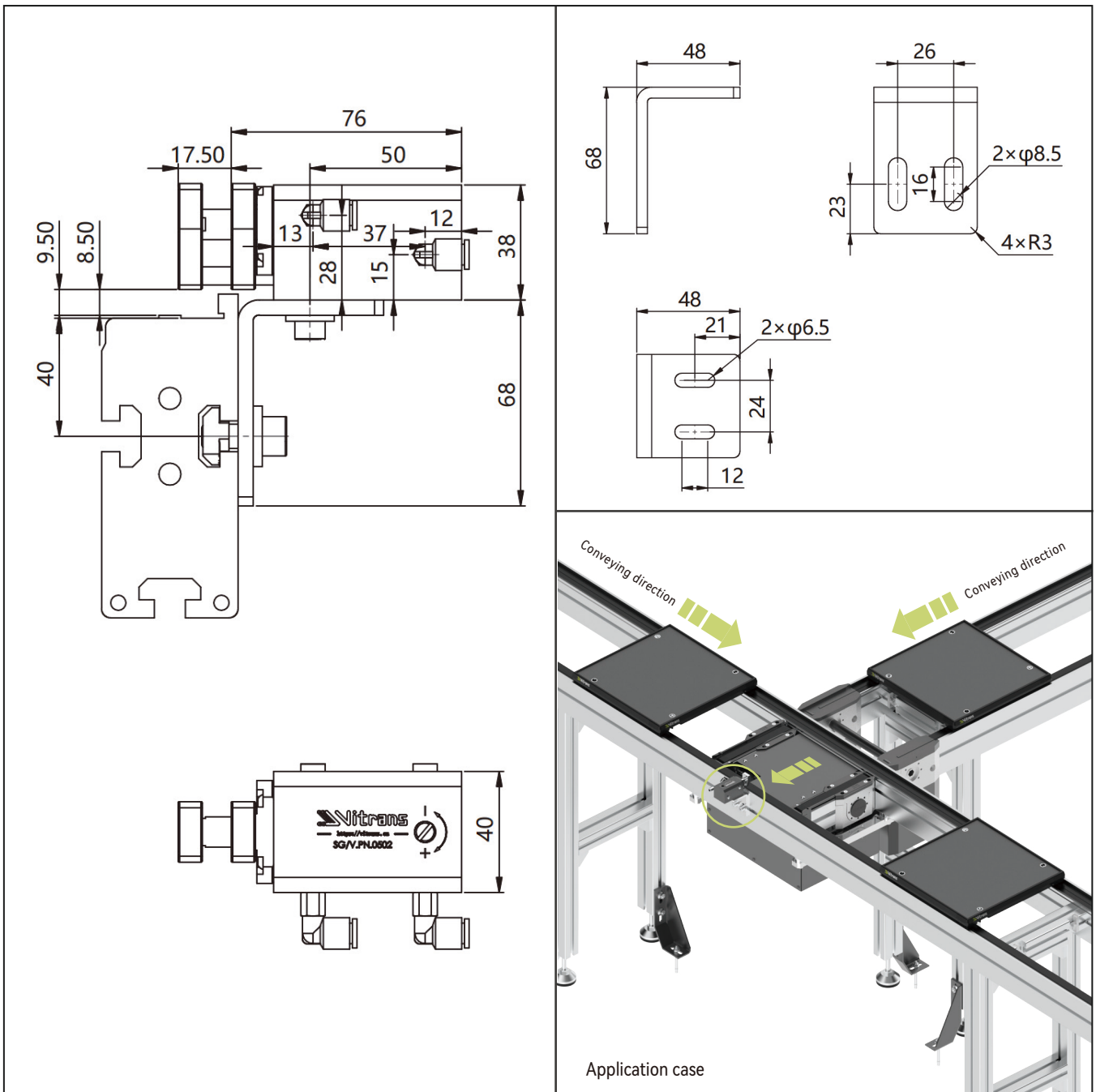
Fully assembled

Recommended accessories:

Proximity sensor (M12)
Proximity sensor bracket
Three-position five-way medium release solenoid valve
Throttle valve ($\phi 6$)

- ▶ Pneumatic dampened damper
- ▶ Damping force can reduce the impact on workpiece pallet
- ▶ Continuously adjustable damping
- ▶ Double acting stopper, The push rod can retract actively
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Note: Damper is special designed for lift and transfer unit.

SG/V - Dimensions



| | |
|---------------------|----------------------|
| Product description | Double acting damper |
| Model | SG/V.PN.0502 |

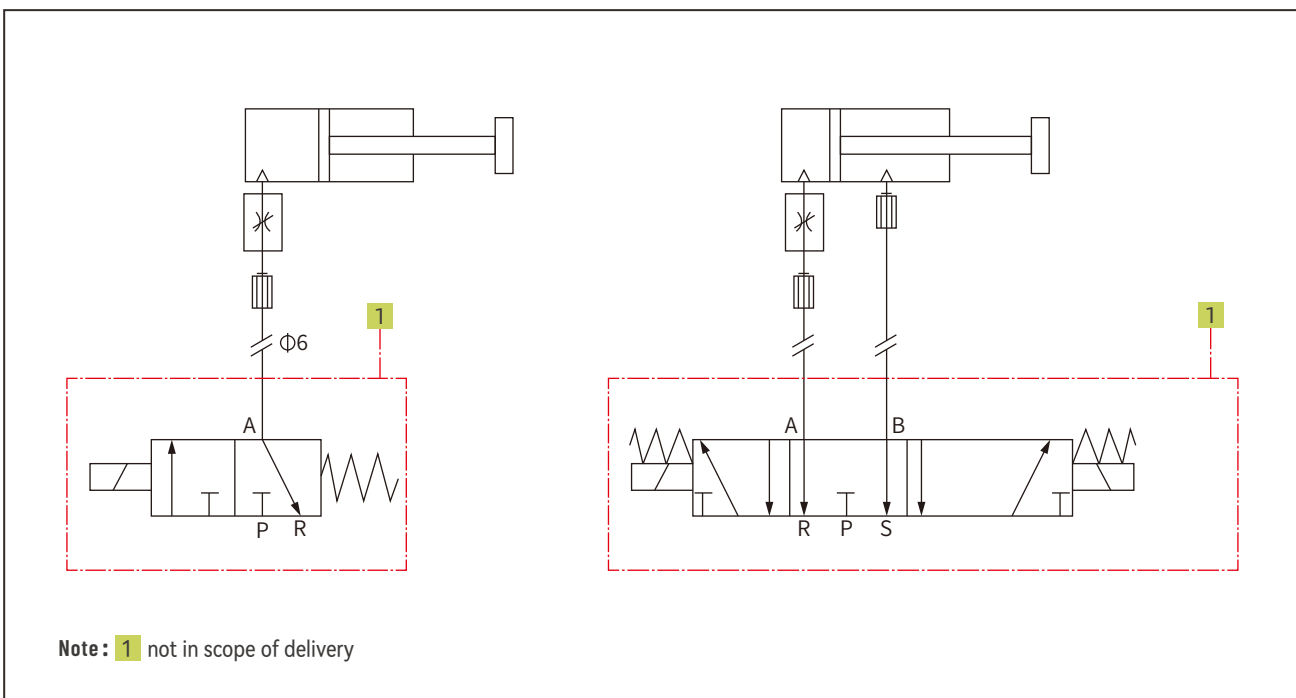
Permitted load of stopper under different conveying speed :

| Permitted workpiece pallet weight M (kg) | Rated speed V (m/min) |
|--|-----------------------|
| 60 | 6 |
| 40 | 9 |
| 35 | 12 |
| 30 | 18 |
| 24 | 24 |

Note 1: In order to use the stopper normally, the mass of the workpiece pallet must not be less than 3.5 kg when the conveying speed is 6 m/min.

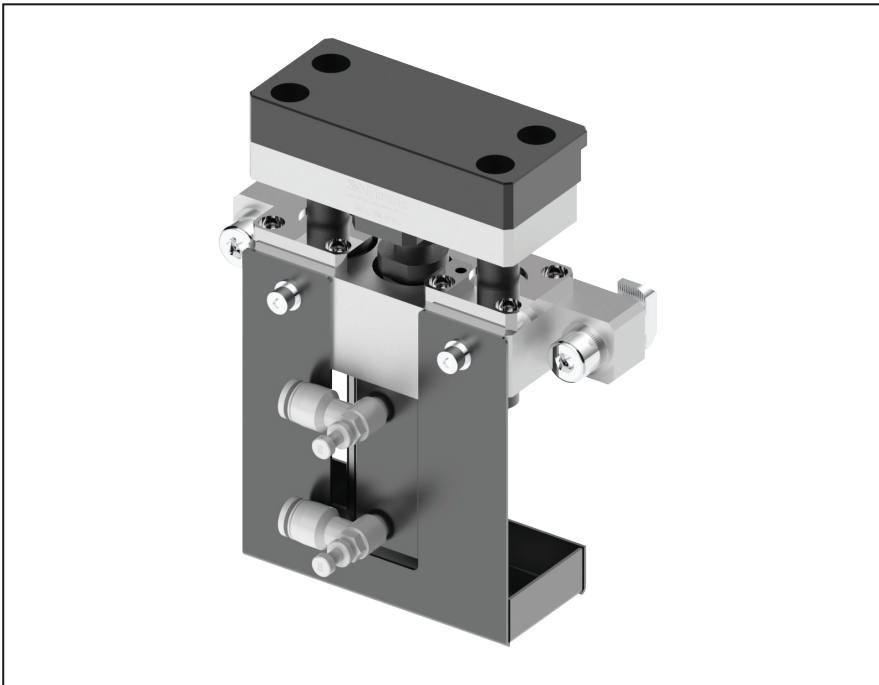
Note 2: The push rod of stopper may not return to the origin position and the workpiece pallet cannot be stopped at the specified position when the mass of the workpiece pallet is less than 3.5 kg.

Circuit diagram :



SG/L Slide stopper

The slide stopper is used with lift and transfer unit to divert workpiece pallet to different longitudinal conveyors.



Delivery notes

Scope of delivery:

Slide stopper
Assembly kit
Throttle valve($\phi 6$)
Magnetic switches: Two wires type
(with 500mm cable, without connector)

Condition on delivery:

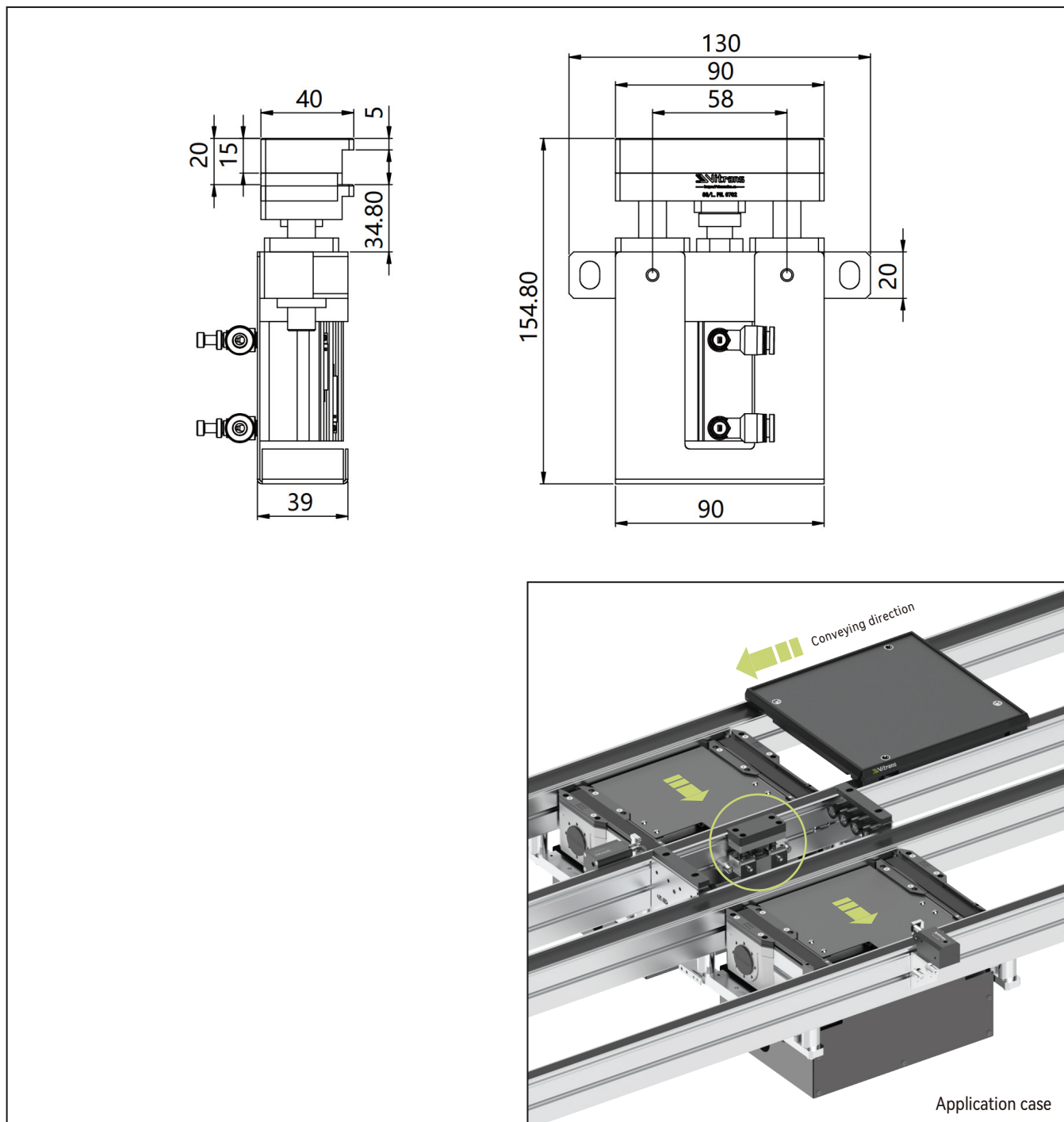
Fully assembled

Recommended accessories:

Two-position three-way solenoid valve

- ▶ Double acting stopper, the stop block can be pushed up to stop workpiece pallet or pulled back to release workpiece pallet.
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Note: Slide stopper is special designed for lift and transfer unit.

SG/L - Dimensions

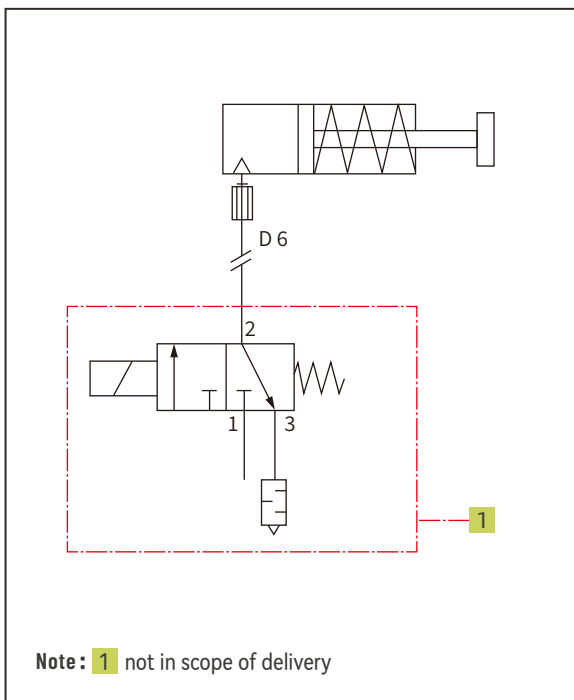


| | |
|---------------------|---------------|
| Product description | Slide stopper |
| Model | SG/L.PN.0702 |

Permitted load of stopper under different conveying speed :

| Permitted workpiece pallet weight M (kg) | Rated speed V (m/min) |
|--|-----------------------|
| 50 | 6 |
| 50 | 9 |
| 35 | 12 |
| 25 | 15 |
| 20 | 18 |

Circuit diagram :



SG/R Return stopper

The return stop prevents the rebound impact of the workpiece pallet from the stopper.



Delivery notes

Scope of delivery:

Return stopper
Assembly kit

Condition on delivery:

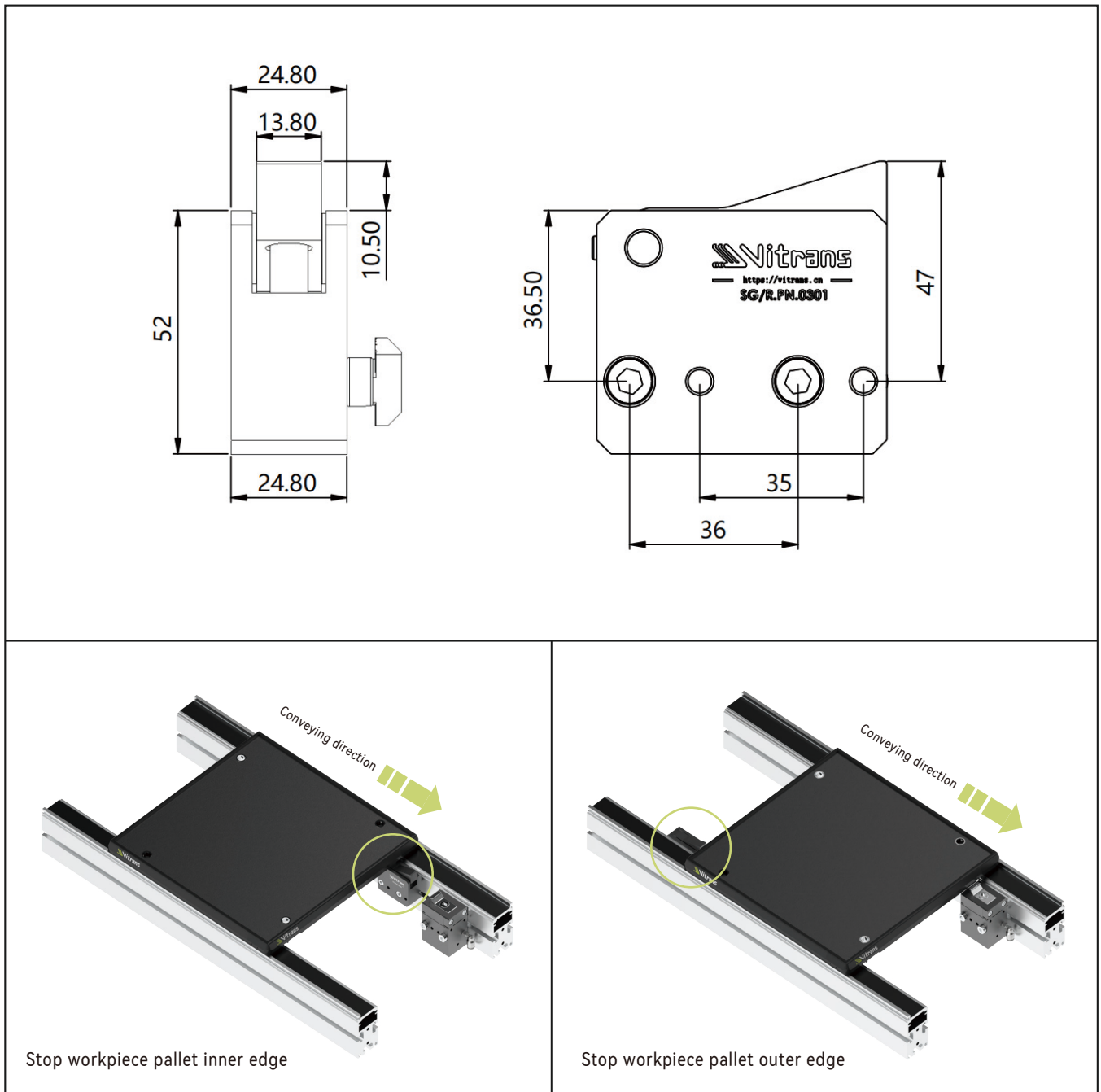
Fully assembled

Recommended accessories:

Pneumatic stopper

- ▶ Mechanical one-way stopper
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Note: Plastic return stopper can be used for workpiece pallet weight less than 60kg.
Steel return stopper can be used for workpiece pallet weight less than 200kg.

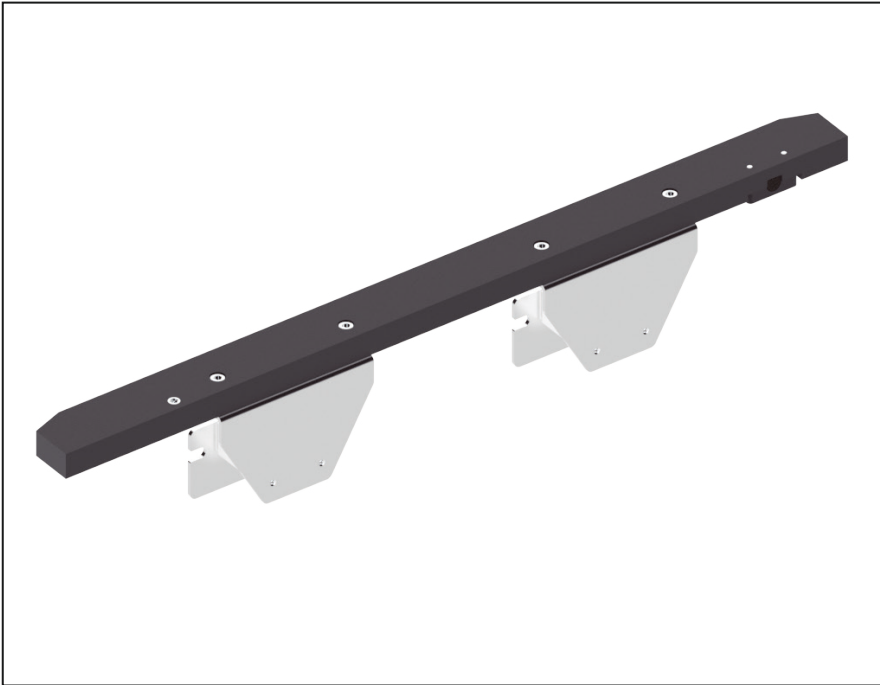
SG/R - Dimensions



| | |
|---------------------|---------------------------------------|
| Product description | Return stopper |
| Model | SG/R.PN.0301 (Plastic return stopper) |
| | SG/R.PN.0302 (Steel return stopper) |

WB2 Rocker

The rocker is used for area monitoring. It can also be used as a damper.



Delivery notes

Scope of delivery:

Rocker
Assembly kit

Condition on delivery:

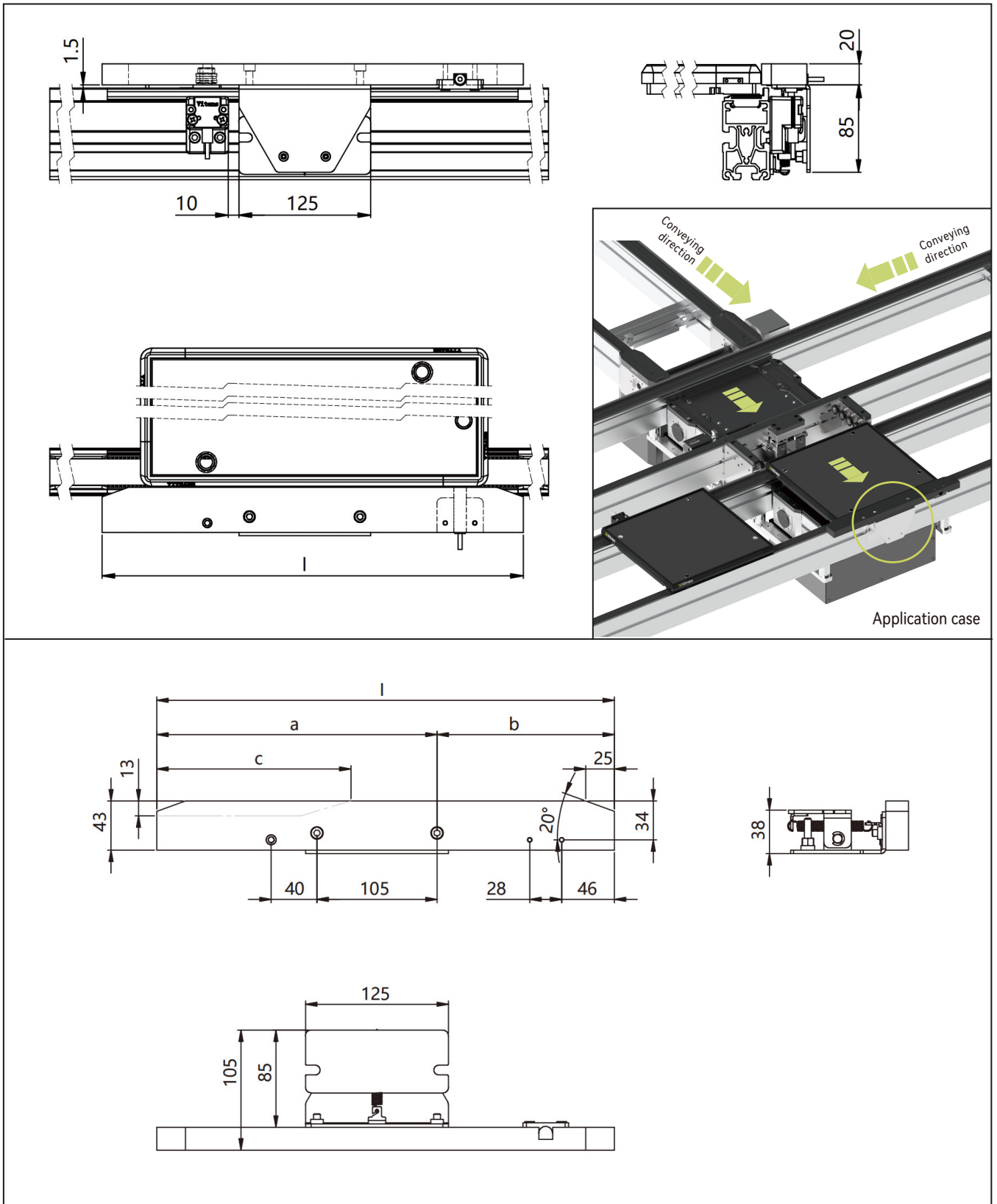
Fully assembled

Recommended accessories:

Proximity sensor(M12)
Proximity sensor bracket

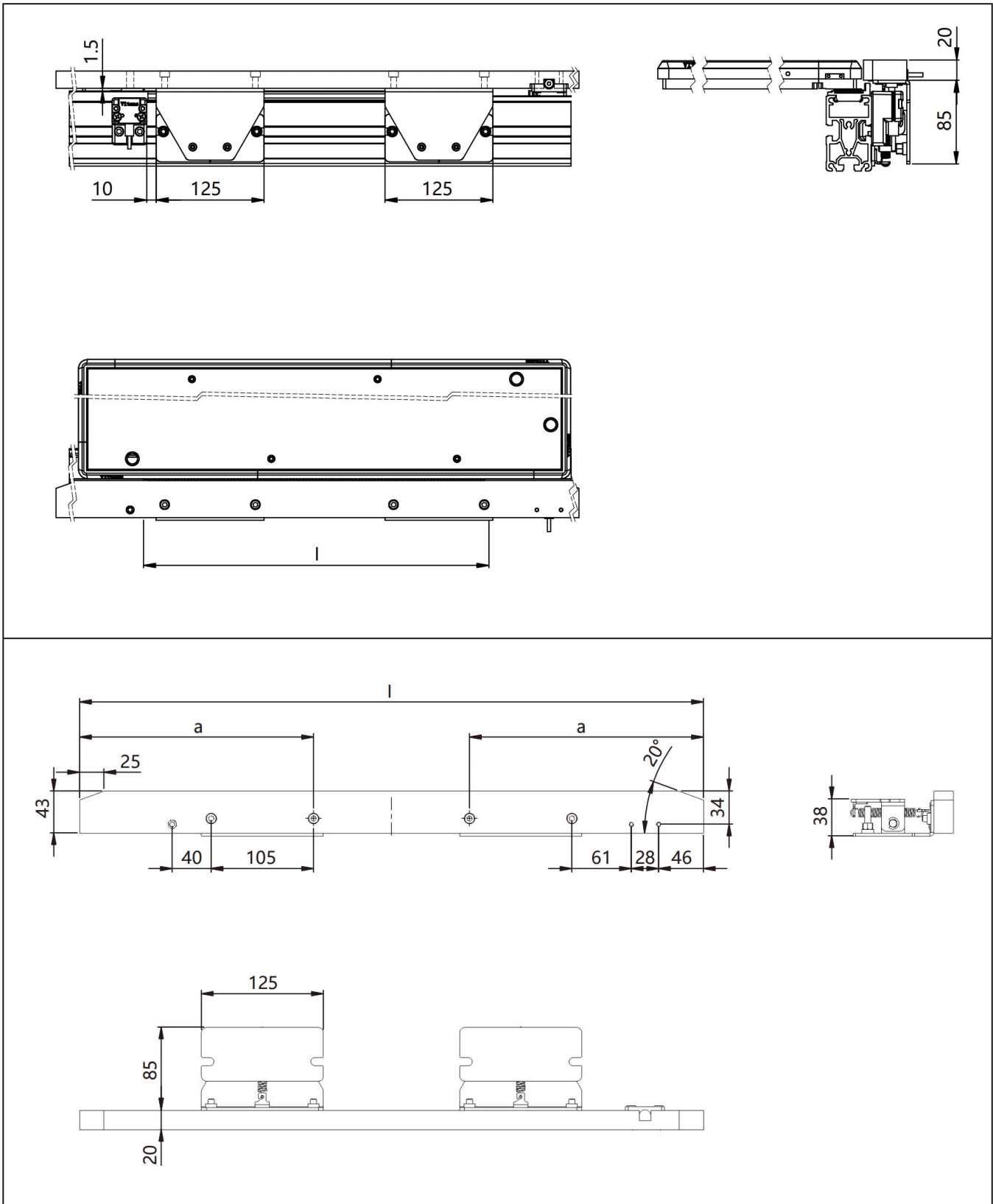
- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Stop workpiece pallet when it is conveyed to the longitudinal conveyor by lift and transfer unit.
- ▶ Spring force can reduce the impact on workpiece pallet
- ▶ Area monitoring, determine the presence of workpiece pallets
- ▶ Basic rocker is suitable for workpiece pallet length $\leq 480\text{mm}$.
The combination of two rockers can be used for workpiece pallet length $> 480\text{mm}$

WB2 - Dimensions



Note: Suitable for workpiece pallet length $L_{wt} \leq 480\text{mm}$

WB2 - Dimensions



Note: Suitable for workpiece pallet length $L_{wt} > 480$ mm

WB2 - Technical data

| Workpiece pallet length Lwt | Dimension (mm) a | Dimension (mm) b | Dimension (mm) c | Dimension (mm) l | Permitted maximum load (kg) | Permitted minimum load (kg) | Area monitoring length (mm) |
|-----------------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 160 | 165 | 155 | 105 | 320 | 30 | 1.5 | 165 |
| 240 | 165 | 155 | 25 | 320 | 30 | 1.5 | 270 |
| 320 | 245 | 155 | 25 | 400 | 30 | 1.5 | 350 |
| 400 | 292.5 | 187.5 | 25 | 480 | 30 | 1.5 | 430 |
| 480 | 332.5 | 227.5 | 25 | 560 | 30 | 1.5 | 510 |
| 560 | 260 | / | 25 | 640 | 30 | 3 | 590 |
| 640 | 260 | / | 25 | 720 | 30 | 3 | 670 |
| 720 | 260 | / | 25 | 800 | 30 | 3 | 750 |
| 800 | 260 | / | 25 | 880 | 30 | 3 | 830 |

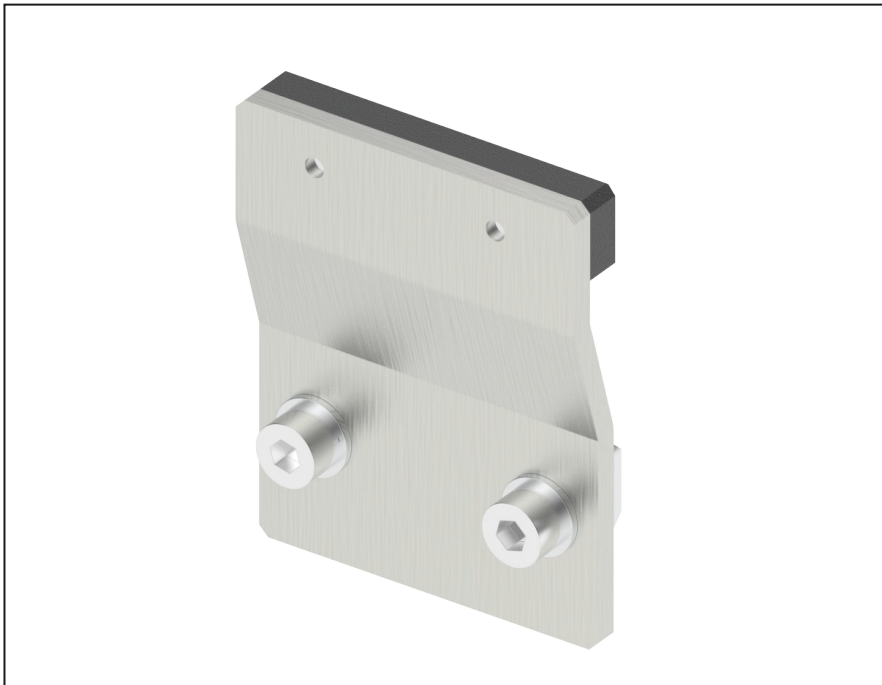
Note: Permitted load can be ignored when rocker is only used for area monitoring.

Ordering information

| | |
|---------------------|----------|
| Product description | Rocker |
| Model | WB2-L160 |
| | WB2-L240 |
| | WB2-L320 |
| | WB2-L400 |
| | WB2-L480 |
| | WB2-L560 |
| | WB2-L640 |
| | WB2-L720 |
| | WB2-L800 |

ST2 Stop block

The stop block is used individually or together with damper to stop workpiece pallet when it is conveyed to the longitudinal conveyor by lift and transfer unit.



Delivery notes

Scope of delivery:

Stop block
Assembly kit

Condition on delivery:

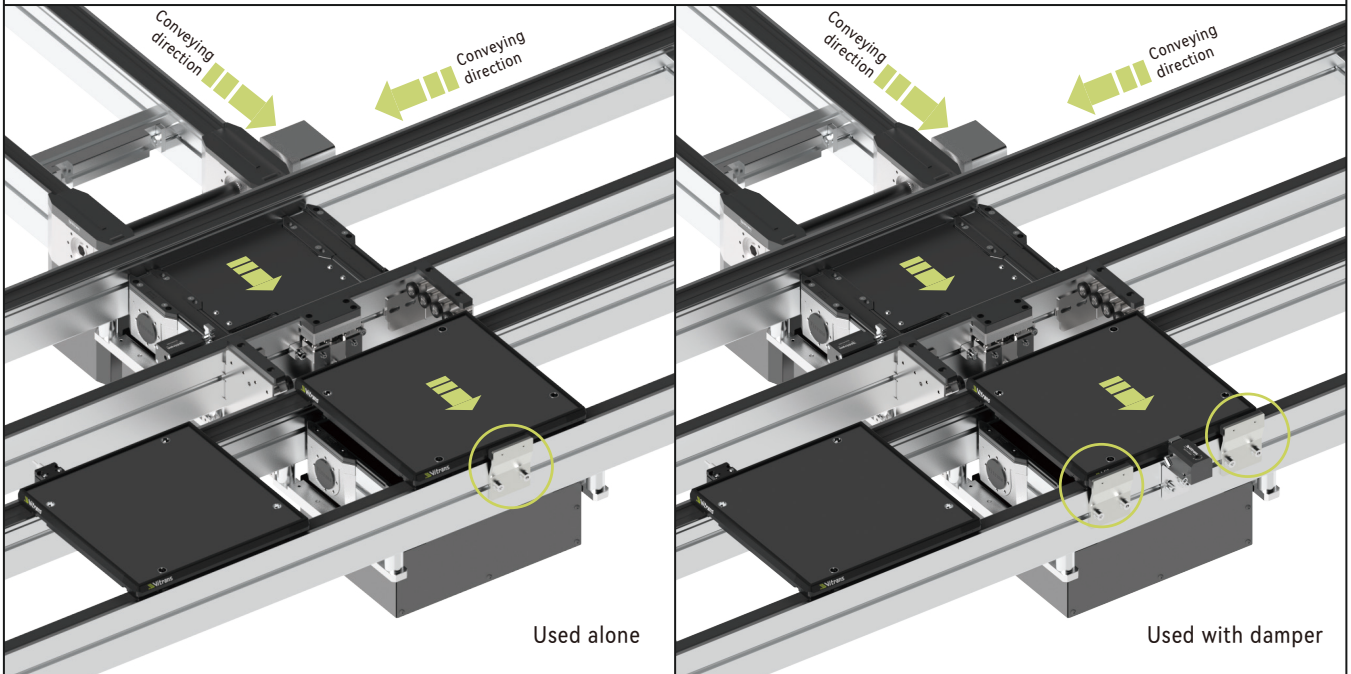
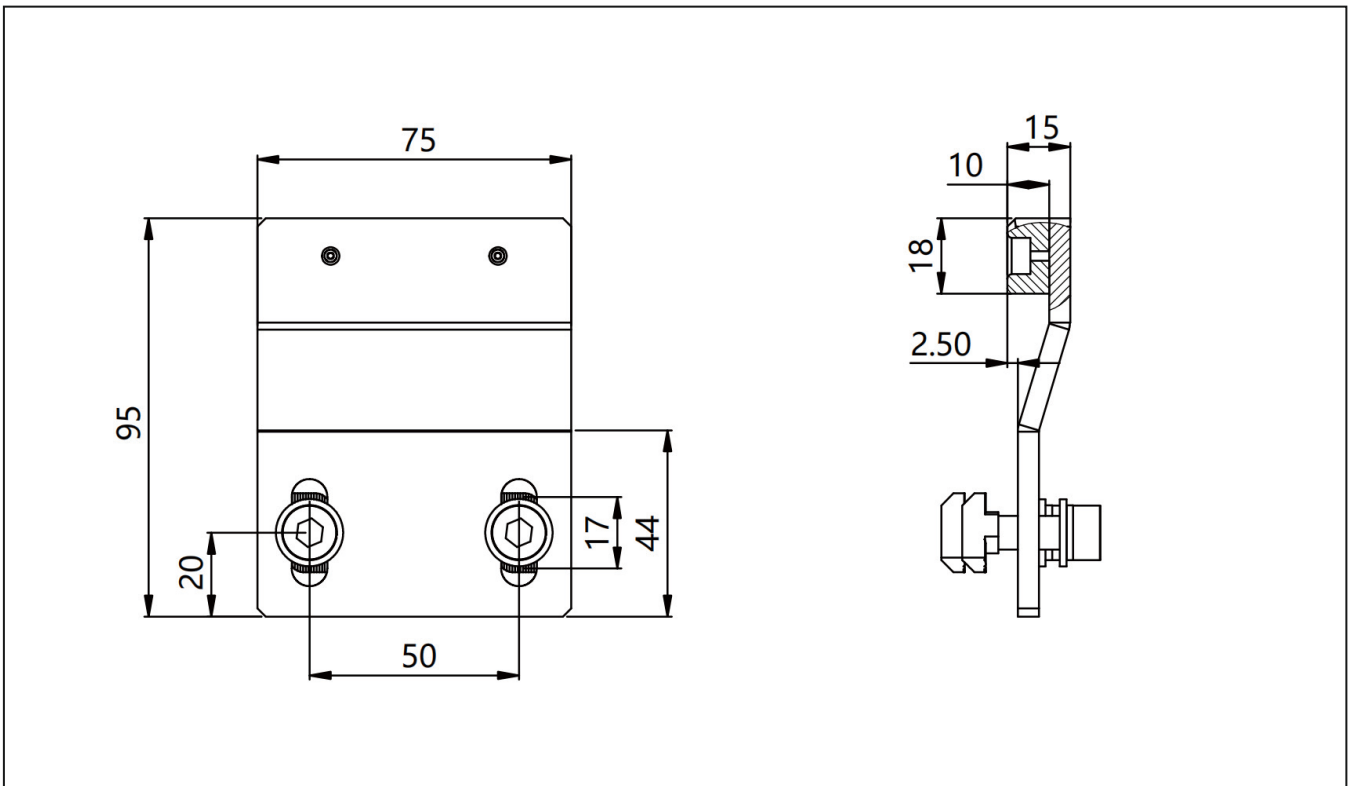
Fully assembled

Recommended accessories:

Double acting damper
Proximity sensor (M12)
Proximity sensor bracket

- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Permitted maximum load: 30Kg
- ▶ Recommend to used it with damper to reduce the impact on workpiece pallet
- ▶ Note: Stop block is special designed for lift and transfer unit.
- ▶ For workpiece pallet size over 400mm, two stop blocks can be used.

ST2 - Dimensions



| | |
|---------------------|------------|
| Product description | Stop block |
| Model | ST2.01.01 |

ZJ/S Proximity sensor bracket

It is used to fix an M12 sensor in place for lateral sensing of the workpiece pallet position.



Delivery notes

Scope of delivery:

Proximity sensor bracket
Assembly kit

Condition on delivery:

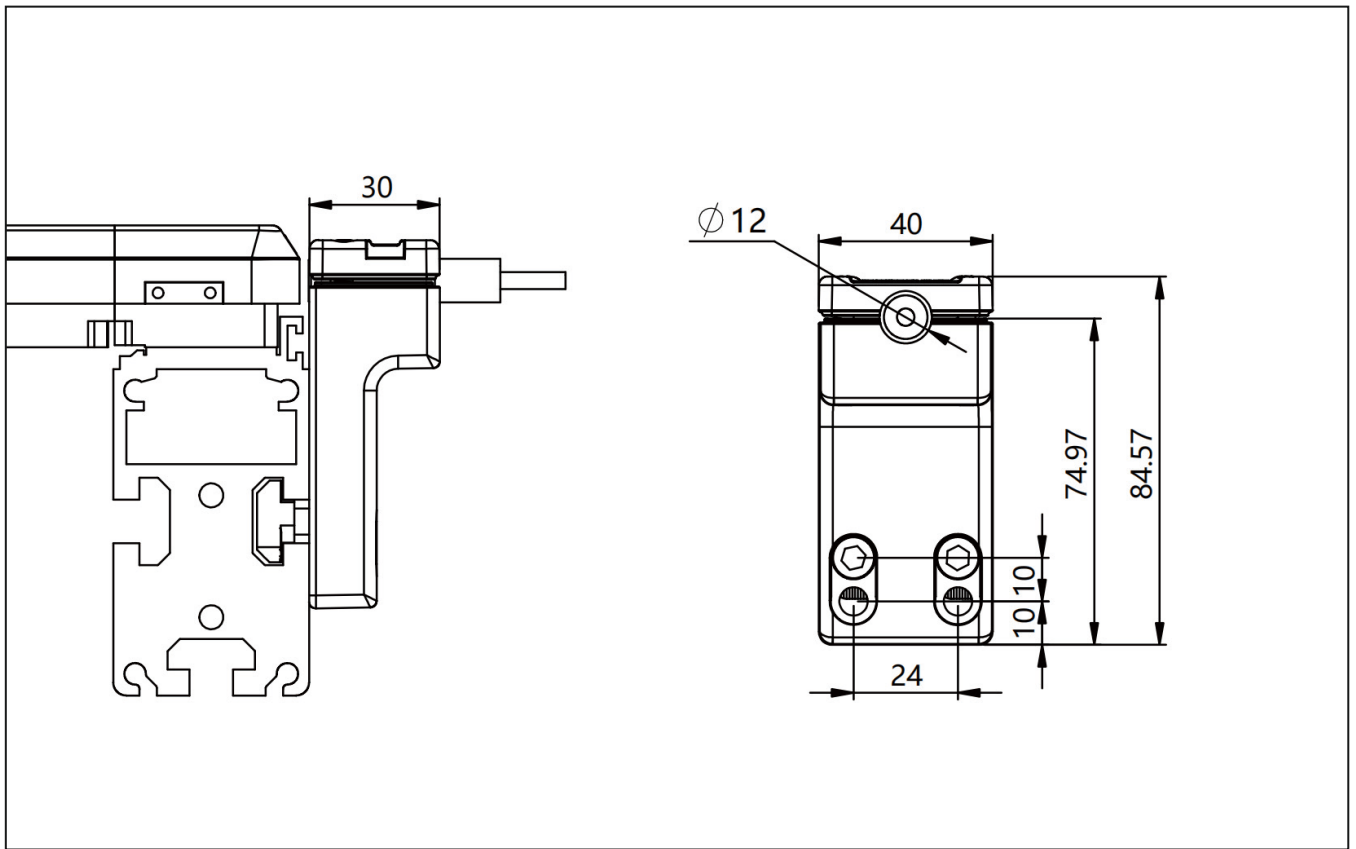
Full set

Recommended accessories:

Proximity sensor(M12)

- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Suitable for M12 proximity sensor

ZJ/S - Dimensions



| | |
|---------------------|--------------------------|
| Product description | Proximity sensor bracket |
| Model | ZJ/S |

ZJ/U Proximity sensor bracket

It is used to fix an M12 sensor on SG stopper for inquiry of the workpiece pallet position from below.



Delivery notes

Scope of delivery:

Proximity sensor bracket
Assembly kit

Condition on delivery:

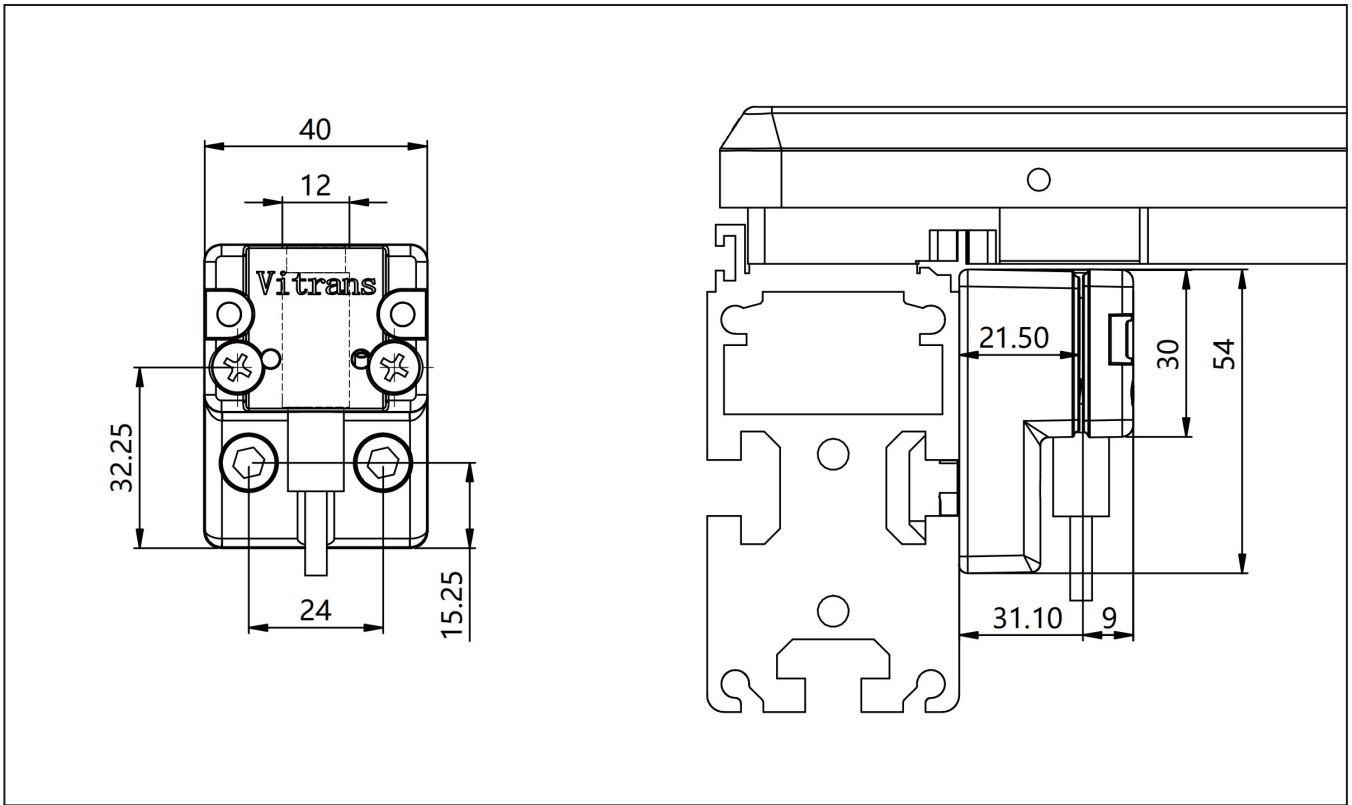
Full set

Recommended accessories:

Proximity sensor(M12)

- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Suitable for M12 proximity sensor

ZJ/U - Dimensions



| | |
|---------------------|--------------------------|
| Product description | Proximity sensor bracket |
| Model | ZJ/U |

ZJ/UV Proximity sensor bracket

It is used to fix an M12 sensor on SG stopper for inquiry of the workpiece pallet position from below.



Delivery notes

Scope of delivery:

Proximity sensor bracket
Assembly kit

Condition on delivery:

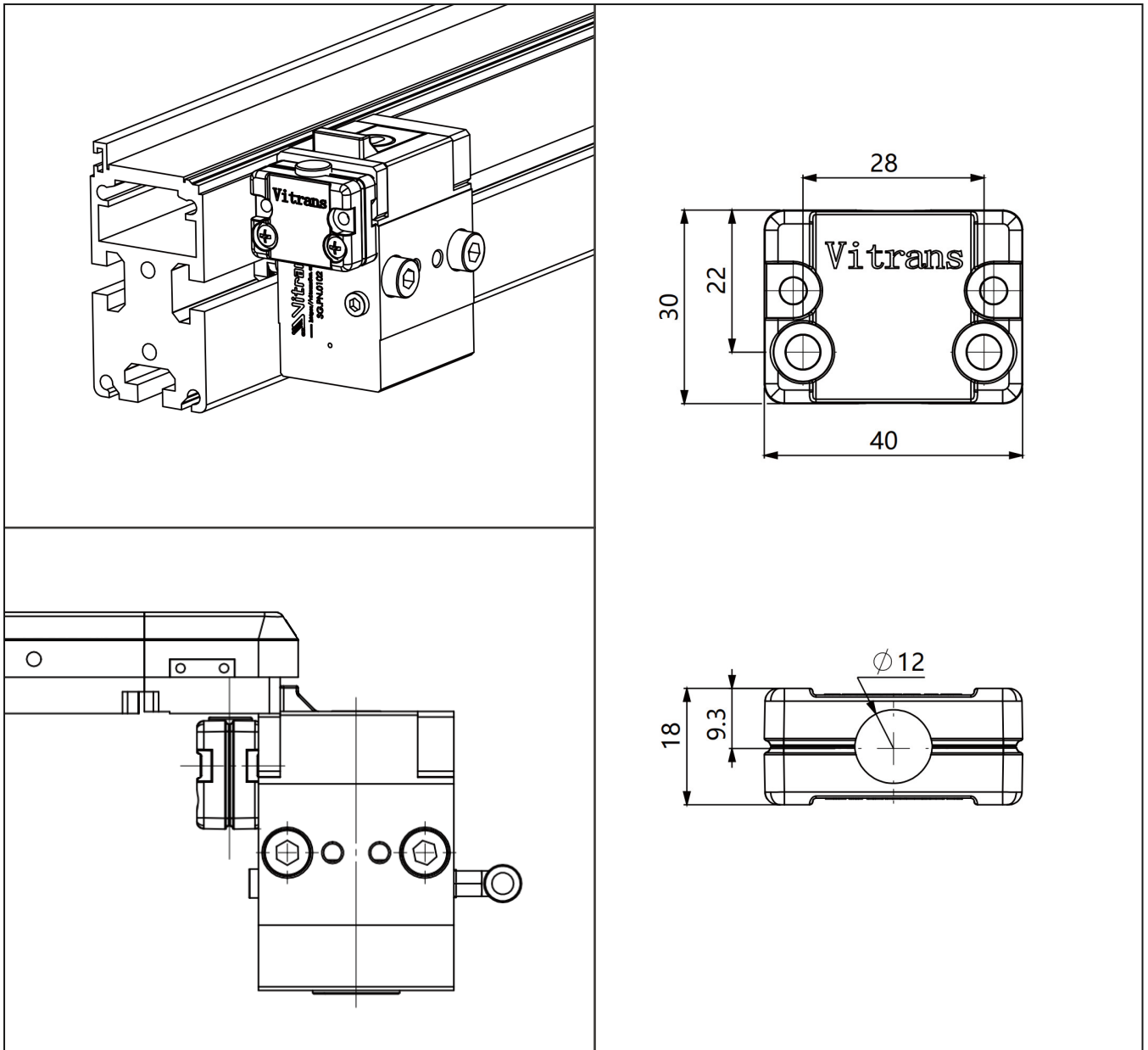
Full set

Recommended accessories:

Proximity sensor(M12)
SG Pneumatic stopper

- ▶ Suitable for WA2 and WE2 workpiece pallet
- ▶ Suitable for M12 proximity sensor

ZJ/UV - Dimensions



| | |
|---------------------|--------------------------|
| Product description | Proximity sensor bracket |
| Model | ZJ/UV |

10

Support conveyors or other units

Support conveyors or other units.

SZL—4545 Leg

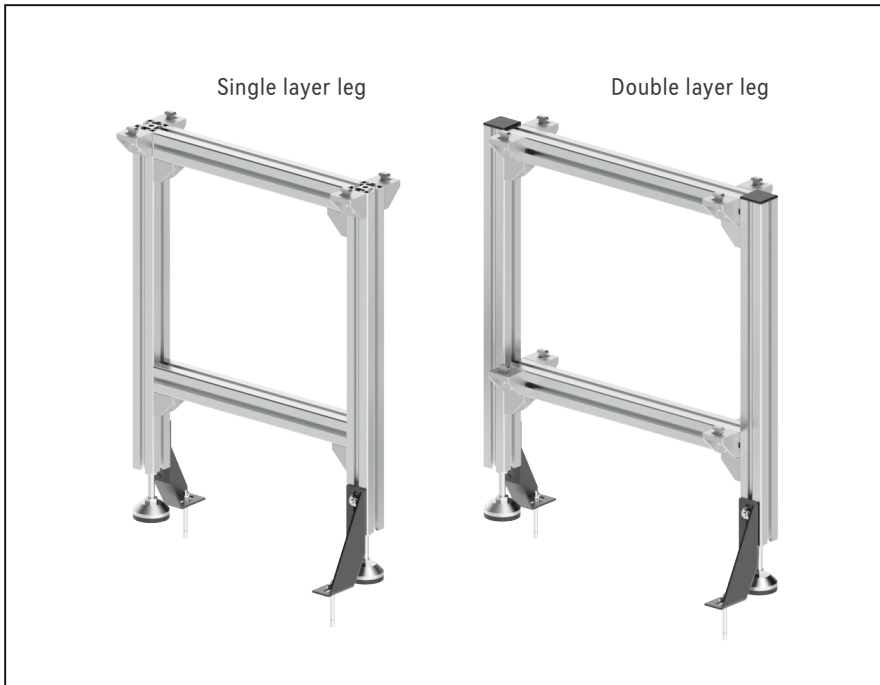
SZ—4560 Leg

SZH—4590 Leg

SM—Foundation bracket

Foundation bracket is used for securing leg or frame to the floor.

SZL 4545 Leg



Delivery notes

Scope of delivery:

Leg

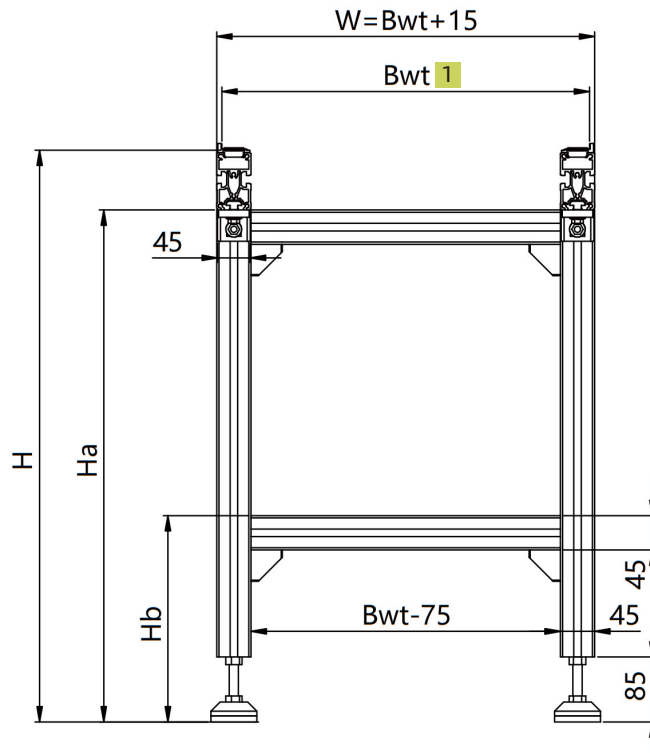
Foundation bracket (with floor dowel)

Condition on delivery:

Fully assembled

- ▶ Made of 45X45 aluminum profile (Europe standard)
- ▶ Permitted maximum distance between each leg is 2000mm.
- ▶ Connection profiles should be used to reinforce the frame when workpiece pallet width is over 640mm.
- ▶ Adjustable range of leg height: ± 30 mm

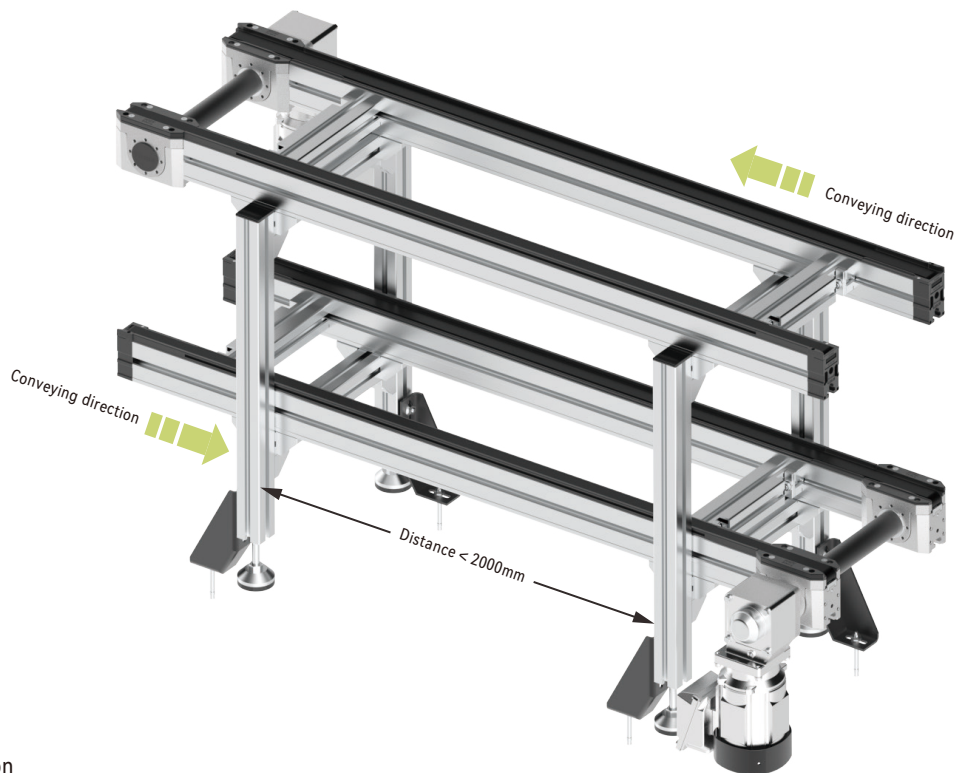
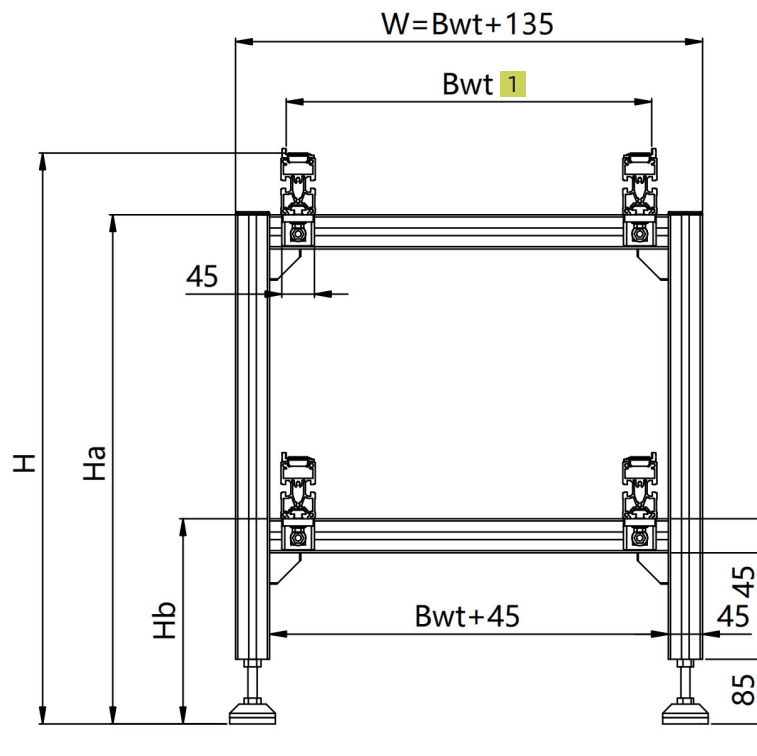
SZL 4545 (Single layer leg) - Dimensions



Application

¹ For BC2 and FC2 conveyor, the dimension is $Bwt + 1$. For AC2, PC2 or CV curve unit, the dimension is $Bwt + 2$.

SZL 4545 (Double layer leg) - Dimensions



Application

1. For BC2 and FC2 conveyor, the dimension is $Bwt+1$. For AC2, PC2 or CV curve unit, the dimension is $Bwt+2$.

SZL 4545 Leg (KV curve unit)



Delivery notes

Scope of delivery:

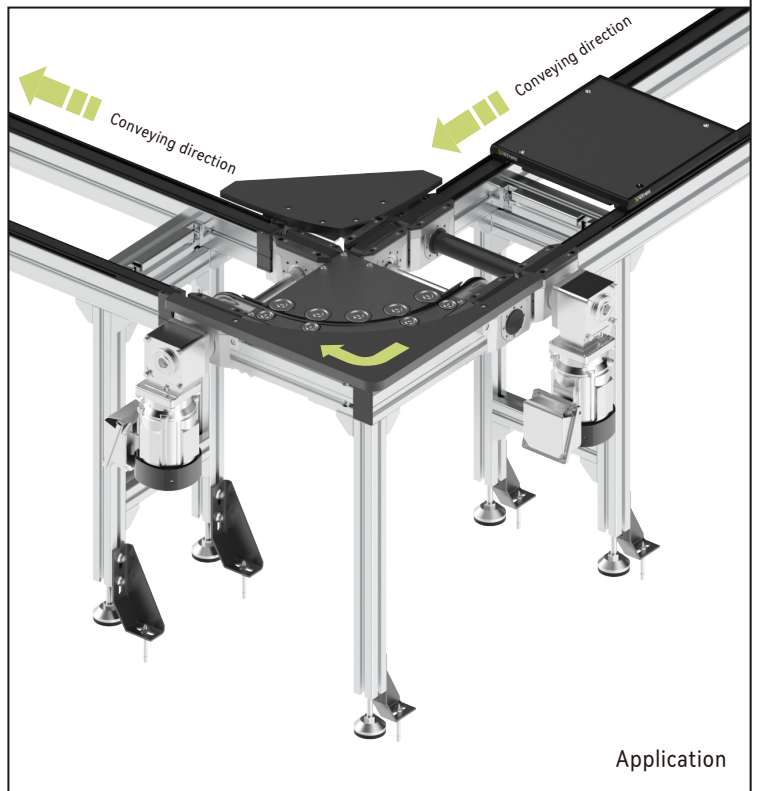
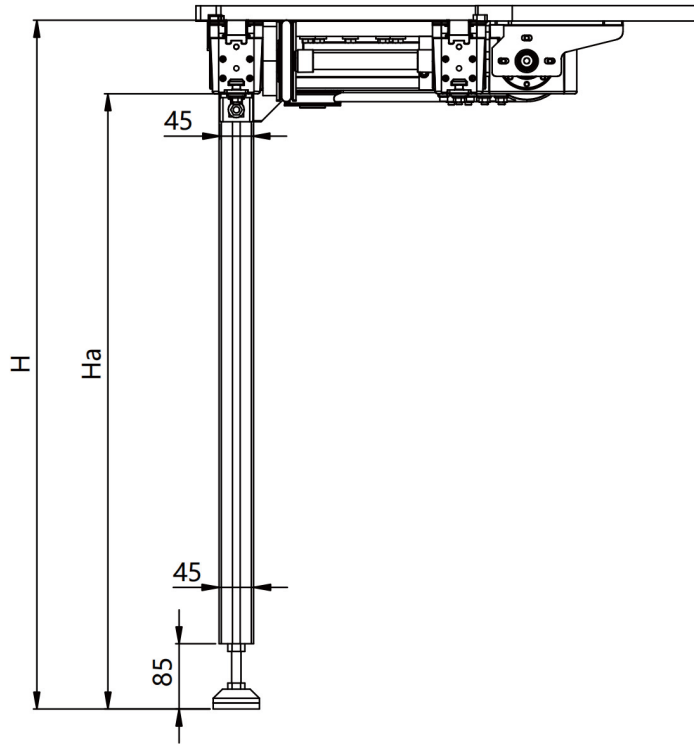
Leg
Foundation bracket(with floor dowel)

Condition on delivery:

Fully assembled

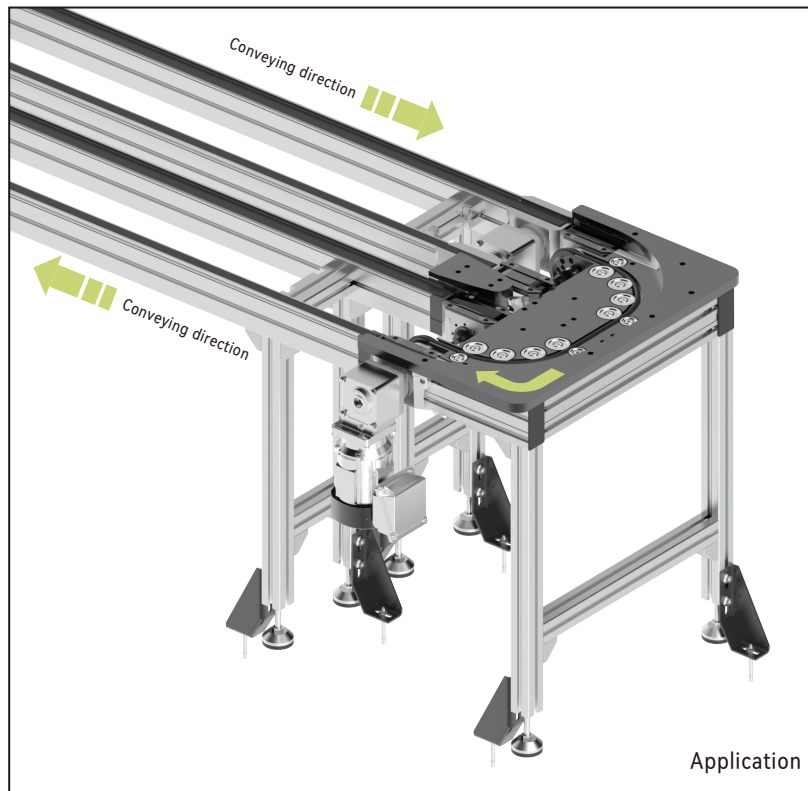
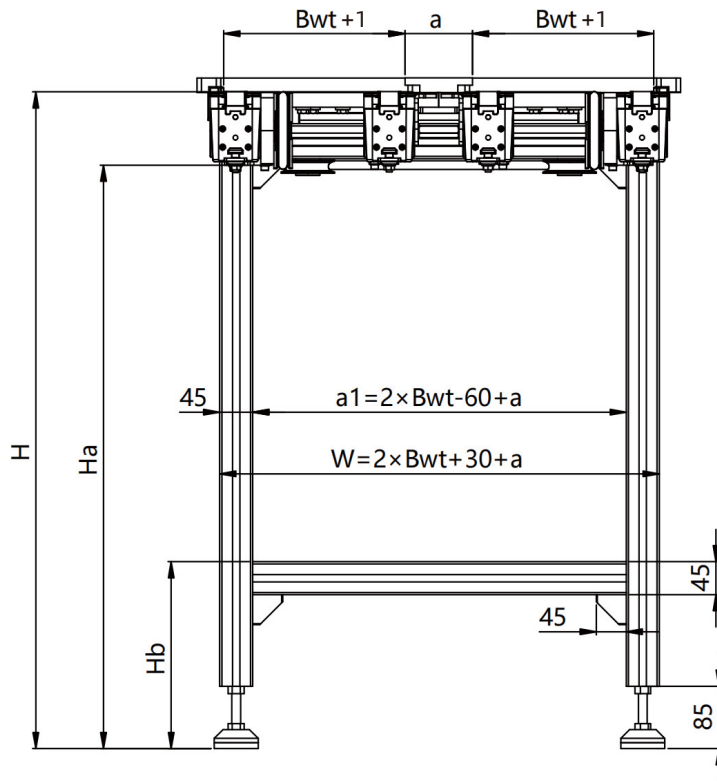
- ▶ Made of 45X45 aluminum profile (Europe standard)
- ▶ Suitable for KV curve unit
- ▶ Adjustable range of leg height: $\pm 30\text{mm}$

SZL-KV/90- Dimensions



Note: Support customizing leg for double layer KV curve.

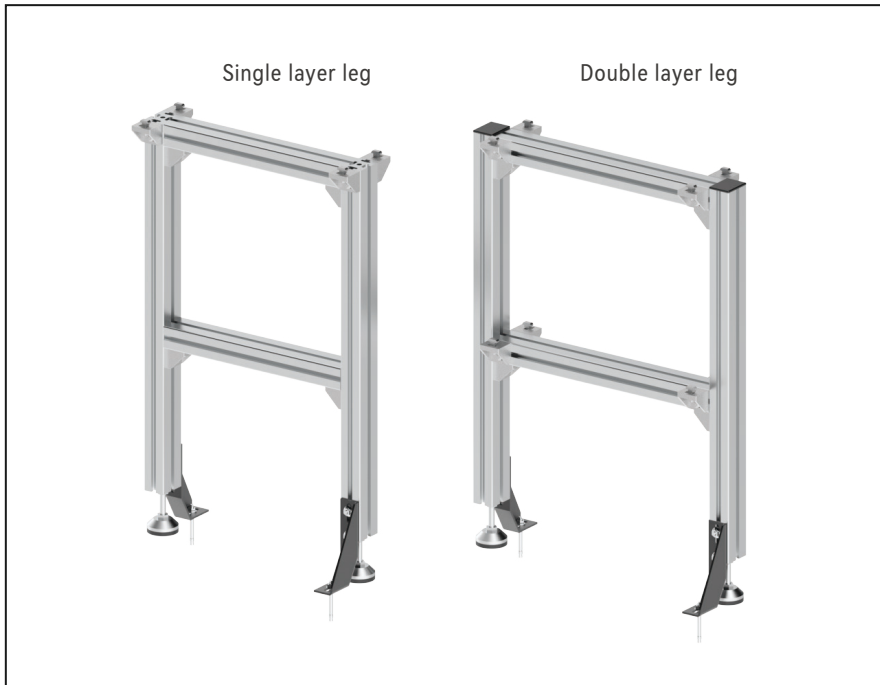
SZL-KV/180- Dimensions



Note 1: Dimension a can be 90mm or 135mm.

Note 2: Support customizing leg for double layer KV curve.

SZ 4560 Leg



Delivery notes

Scope of delivery:

Leg

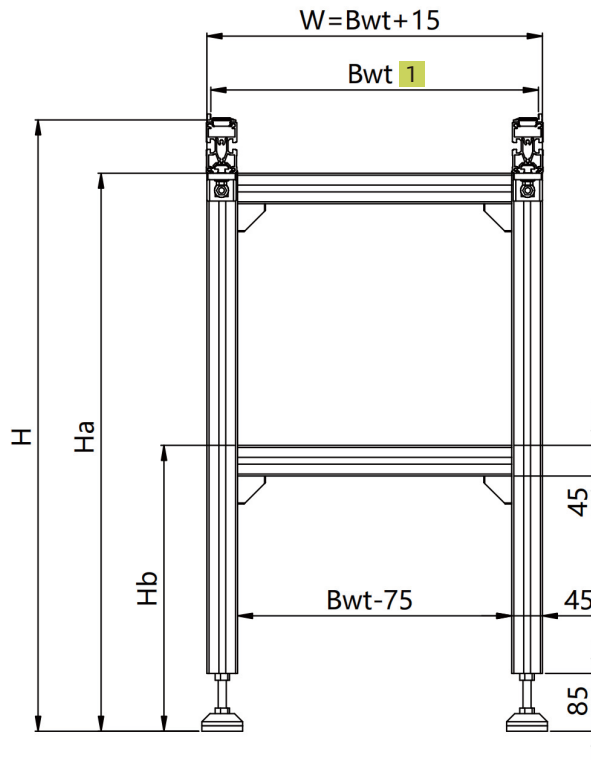
Foundation bracket (with floor dowel)

Condition on delivery:

Fully assembled

- ▶ Made of 45X60 aluminum profile (Europe standard)
- ▶ Permitted maximum distance between each leg is 2000mm.
- ▶ Connection profiles should be used to reinforce the frame when workpiece pallet width is over 640mm.
- ▶ Adjustable range of leg height: ± 30 mm

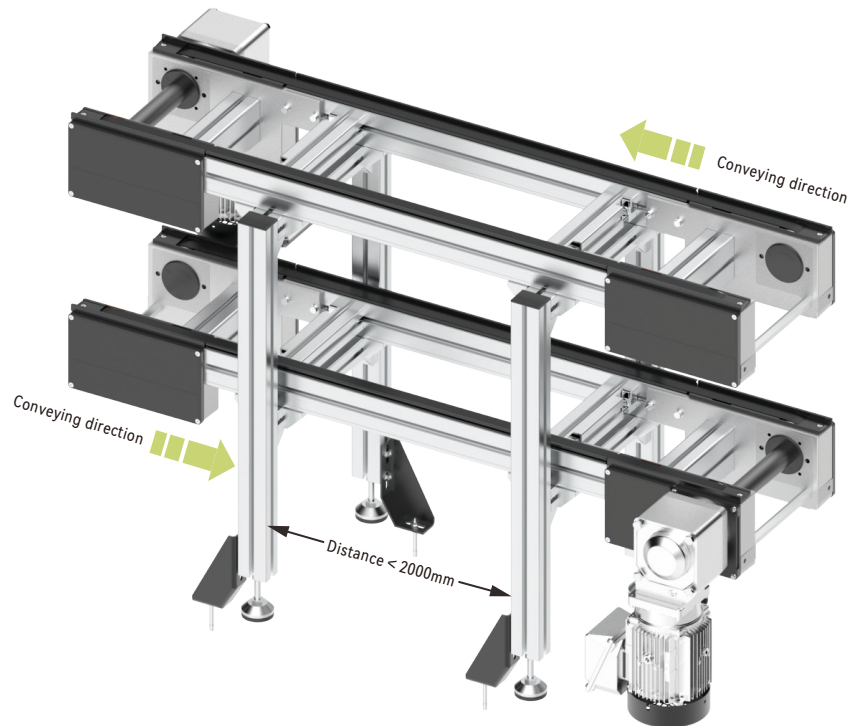
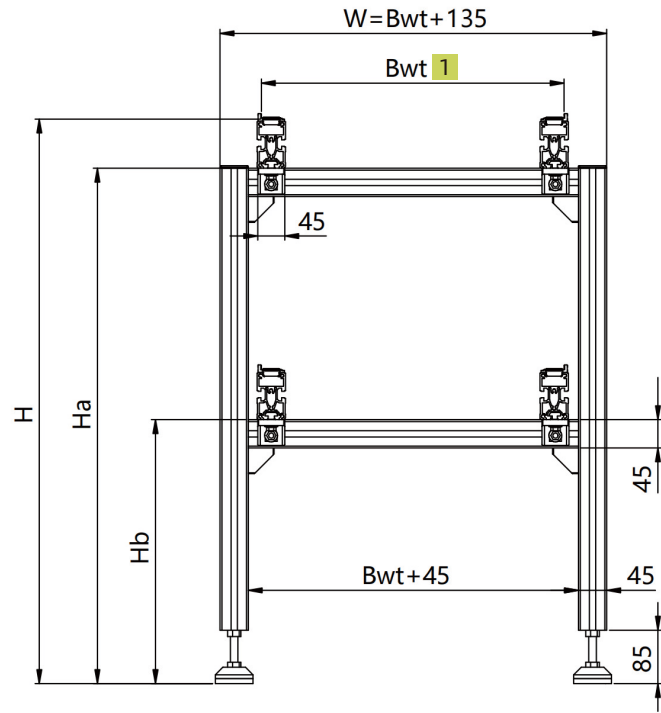
SZ 4560 (Single layer leg) - Dimensions



Application

1. For BC2 and FC2 conveyor, the dimension is $Bwt + 1$. For AC2, PC2 or CV curve unit, the dimension is $Bwt + 2$.

SZ 4560 (Double layer leg) - Dimensions

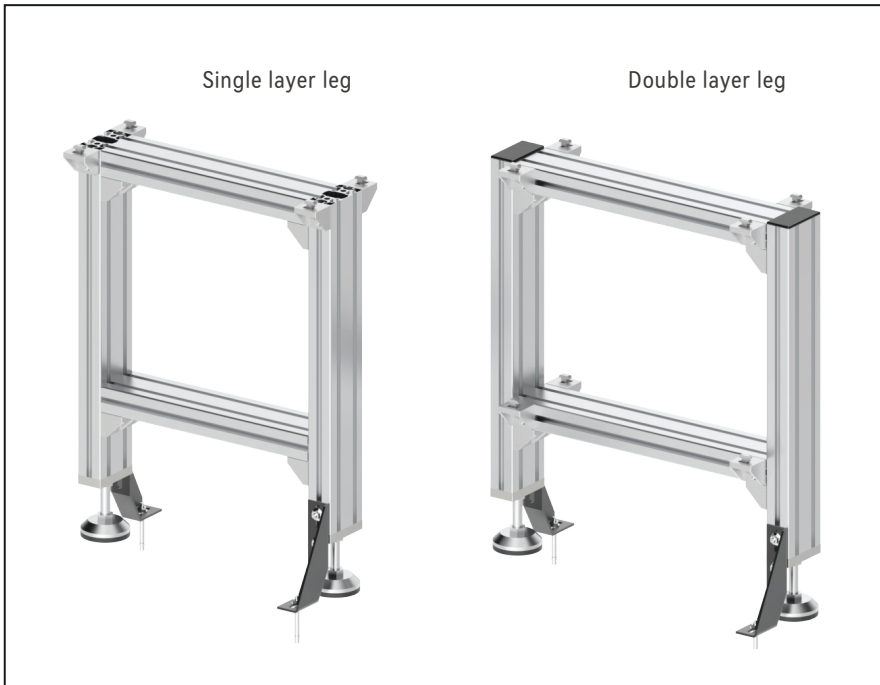


Application

1. For BC2 and FC2 conveyor, the dimension is $Bwt+1$. For AC2, PC2 or CV curve unit, the dimension is $Bwt+2$.

Note: Support customizing leg for double layer CV curve.

SZH 4590 Leg



Delivery notes

Scope of delivery:

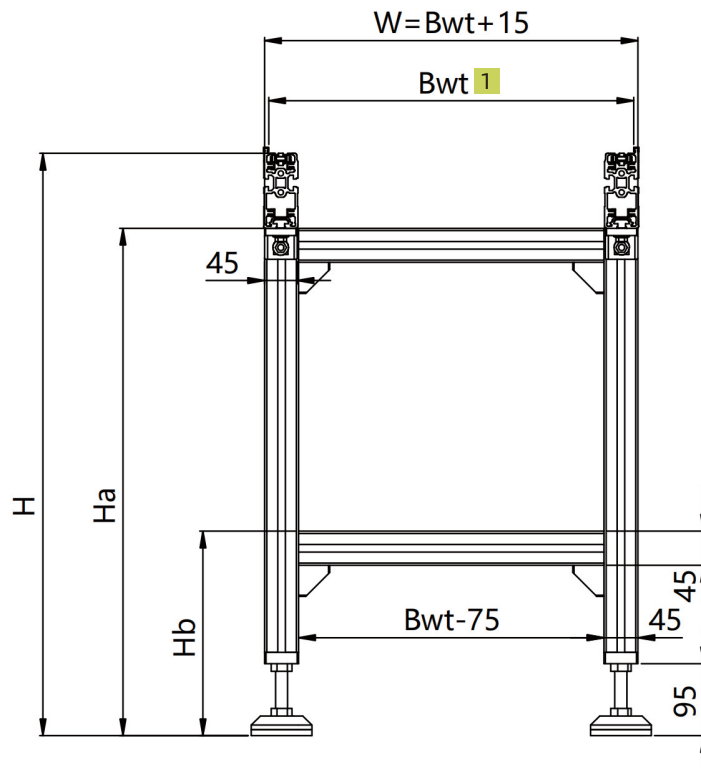
Leg
Foundation bracket (with floor dowel)

Condition on delivery:

Fully assembled

- ▶ Made of 45X60 aluminum profile (Europe standard)
- ▶ Permitted maximum distance between each leg is 2000mm.
- ▶ Connection profiles should be used to reinforce the frame when workpiece pallet width is over 640mm.
- ▶ Adjustable range of leg height: ± 30 mm

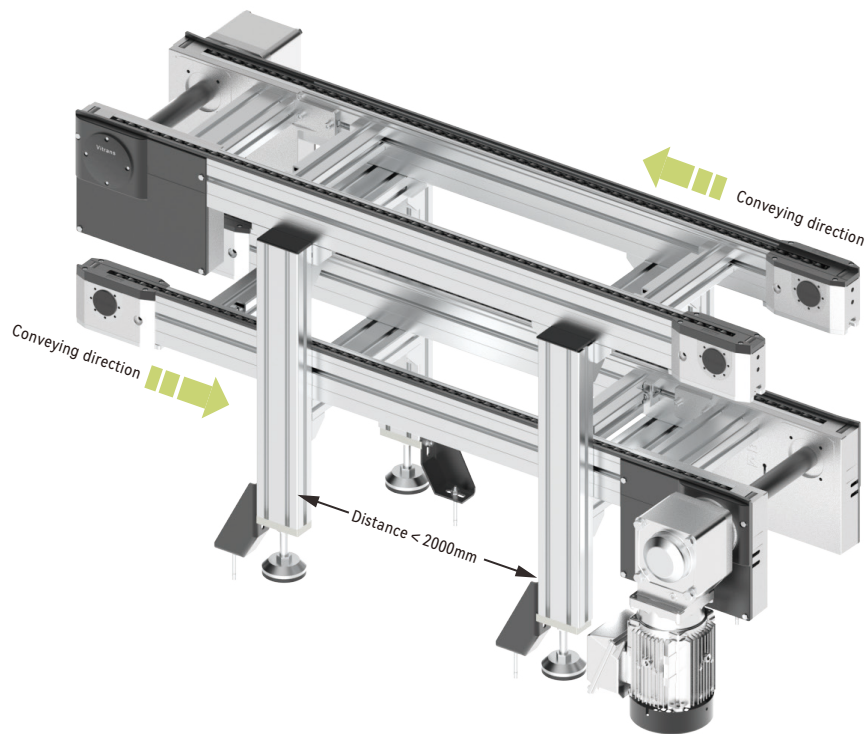
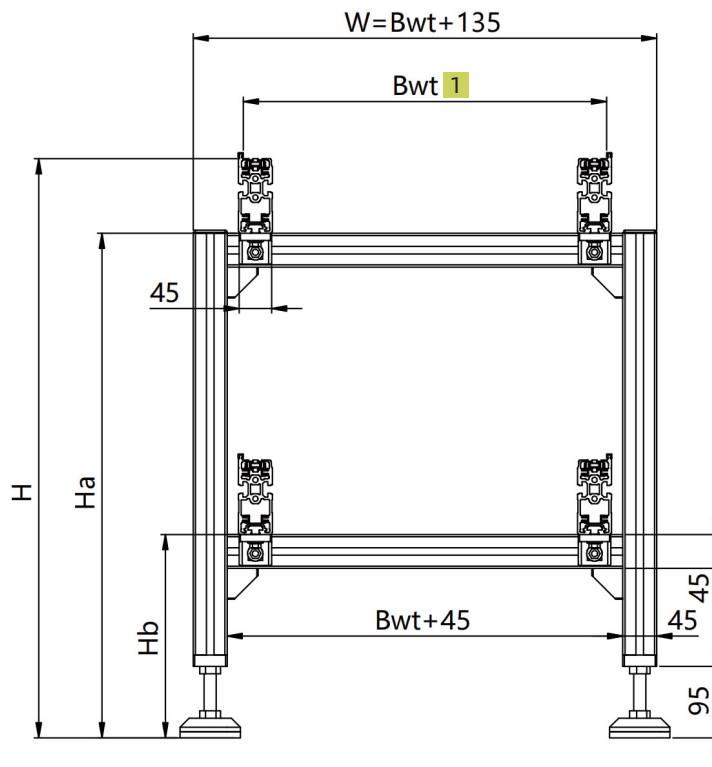
SZH 4590 (Single layer leg) - Dimensions



Application

1. For BC2 and FC2 conveyor, the dimension is $Bwt+1$. For AC2, PC2 or CV curve unit, the dimension is $Bwt+2$.

SZH 4590 (Double layer leg) - Dimensions



Application

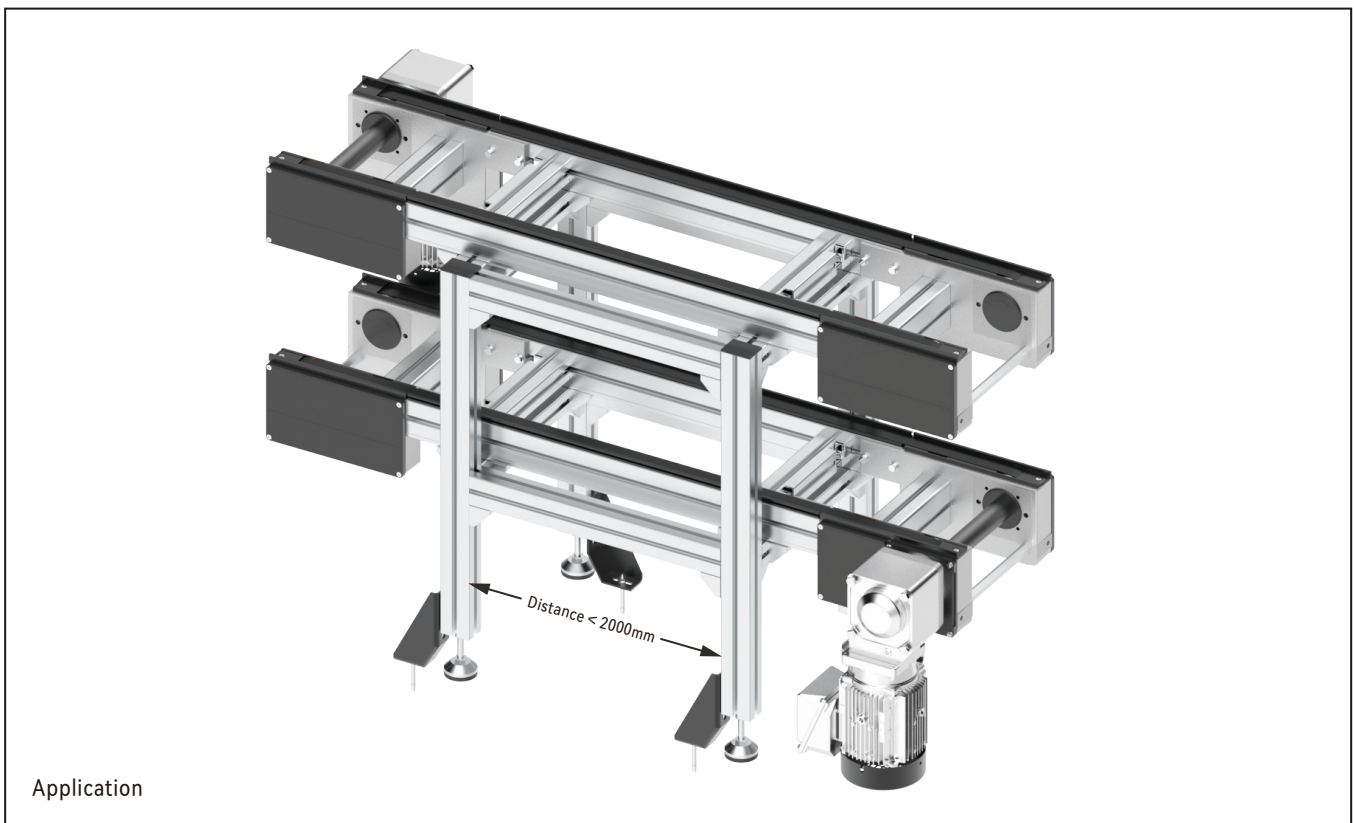
¹ For BC2 and FC2 conveyor, the dimension is $Bwt+1$. For AC2, PC2 or CV curve unit, the dimension is $Bwt+2$.

Technical data

| | | |
|--|-----|---|
| Workpiece pallet width(mm)* | Bwt | 160,240,320,400,480,560,640,800,1040,1200 |
| Leg width(mm)* | W | |
| Conveying height(mm)* | H | 350~2000 |
| Height of Top layer profile top face(mm)* | Ha | |
| Height of bottom layer profile top face(mm)* | Hb | >350 |

Note 1: $H=H_a$ + Height of conveyor section profile

Note 2: Connection profiles should be used to reinforce the frame when workpiece pallet width is over 640mm (Refer to the figure below)



Conveying height and conveyor type

| Conveyor type | Conveying height |
|----------------------------------|------------------|
| BC2 Timing belt conveyor | $H=H_a+80$ |
| BC2/M Timing belt conveyor | $H=H_a+80$ |
| FC2 Flat belt conveyor | $H=H_a+80$ |
| AC2 Accumulated chain conveyor | $H=H_a+100$ |
| AC2U Accumulated chain conveyor | $H=H_a+100$ |
| AC2L Accumulated chain conveyor | $H=H_a+100$ |
| AC2/H Accumulated chain conveyor | $H=H_a+100$ |
| PC2 Plastic chain conveyor | $H=H_a+120$ |
| KV Curve unit | $H=H_a+90$ |
| CV Curve unit | $H=H_a+100$ |

Note 1: The section profile heights are different for different conveyor types.

Note 2: The conveying height can be adjusted by leg.

Note 3: Support customization.

Ordering information

| | |
|-----------------------------|--|
| SZ <input type="checkbox"/> | Leg type: SZL、SZ、SZH |
| <input type="checkbox"/> | Layer quantity of conveyor: S (Single layer),D (Double layer),E (Others) |
| W | Leg width |
| Ha | Height of Top layer profile top face(mm) |
| Hb | Height of bottom layer profile top face(mm) |

Ordering example

SZL—D—W255—Ha720—Hb350

Leg type: SZL Layer quantity of conveyor: D (Double layer) Leg width: 255 Height of Top layer profile top face: 720

Height of bottom layer profile top face: 350

SM Foundation bracket



Delivery notes

Scope of delivery:

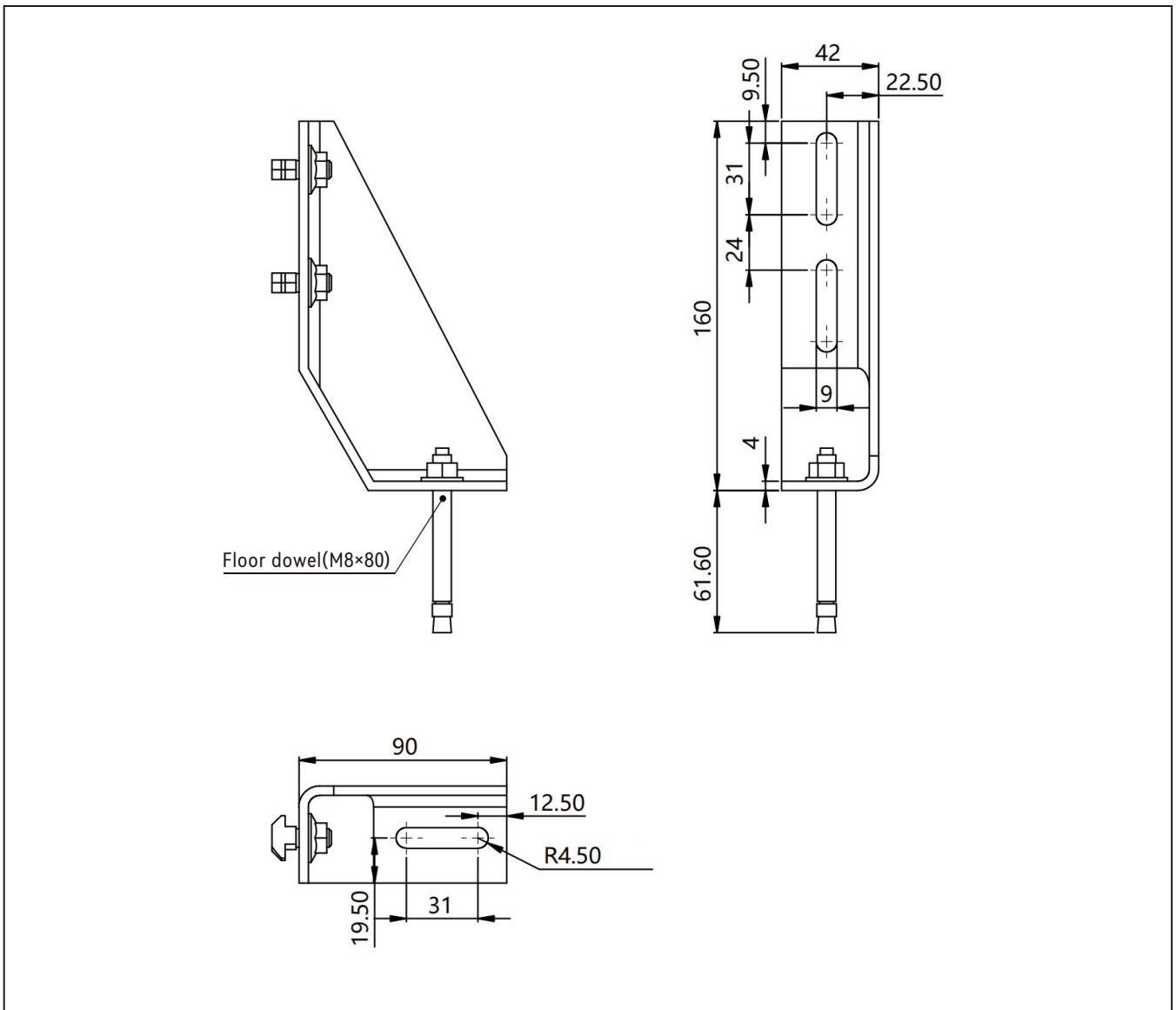
Foundation bracket
Assembly kit
Floor dowel(M8×80)

Condition on delivery:

Full set

- ▶ Foundation bracket is used for securing leg or frame to the floor

SM - Dimensions



| | |
|---------------------|----------------------|
| Product description | SMFoundation bracket |
| Model | SM.01.01 |

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Pallet conveyor system overview



Pallet conveyor system overview

Application

Vitrans VT conveyor system is designed for the transportation of workpiece pallets weighing up to 240 kg. It is a economical and diverse modular system that meets the requirements of a wide range of different products.

Safety

1. Do not modify the product without authorization.
2. Prohibit using the product to mechanical loads beyond its allowable range.
3. The manufacturer shall not be liable for warranty and compensation for damages caused by improper operation, unauthorized modification.
4. Avoid system failure caused by improper operation or improper maintenance.
5. Pallet conveyor system is designed and produced for a long service life, timely and correct maintenance is important to ensuring the durability.

Conveying medium

Conveying medium can tolerate various common media in production, such as water, mineral oil, lubricating grease, and cleaning agents.

Accumulation

Accumulation means when some of the workpiece pallets are stopped, the conveyor keeps running to convey the other workpiece pallets. An accumulated conveyor system request the workpiece pallets and conveyors have excellent wear resistance.

Overload

Overloading of the conveyor may cause motor failure, conveyor medium and motion parts worn out. Overloading of pneumatic parts may cause the mechanism to malfunction or fail.

Load and speed

Permitted load of stoppers decrease with increasing speed.

Wear and speed

The wear of the conveying medium is directly proportional to the conveying speed. This means that compared to the standard speed of 12m/min, a conveying speed of 18m/min causes the system to wear out faster.

Wear

Wear is inevitable during system operation. Proper maintaining can help ensure the normal functioning and safety of the system during its service life.

However, wear is also affected by the frequency of system use and production environment.

The following measures can reduce wear:

- Turn off the conveyor or mechanism when there is no workpiece pallet on it.
- Decrease conveying speed.
- Reduce load or accumulation.
- Regularly clean the conveying medium.

Effects of high/low loads on wear

High load causes faster wear.

Requirements of compressed air

Compressed air used for the system must be filtered and dried.

Working pressure: 4-6 Bar



Vitrans Automation

Vitrans Automation Equipment Co.,Ltd

Webiste:
www.vitrans-conveyor.com

E-mail:
sales@vitrans.cn