



***i-65***<sup>TM</sup>

**Modular Intelligent Conveyor Platform**

**Product selection manual**



2018 V1.0

**Damon**  
*Damon Simplifies Logistics*

TECHNOLOGY CHANGES THE WORLD & LINKS THE FUTURE...

# CATALOGUE

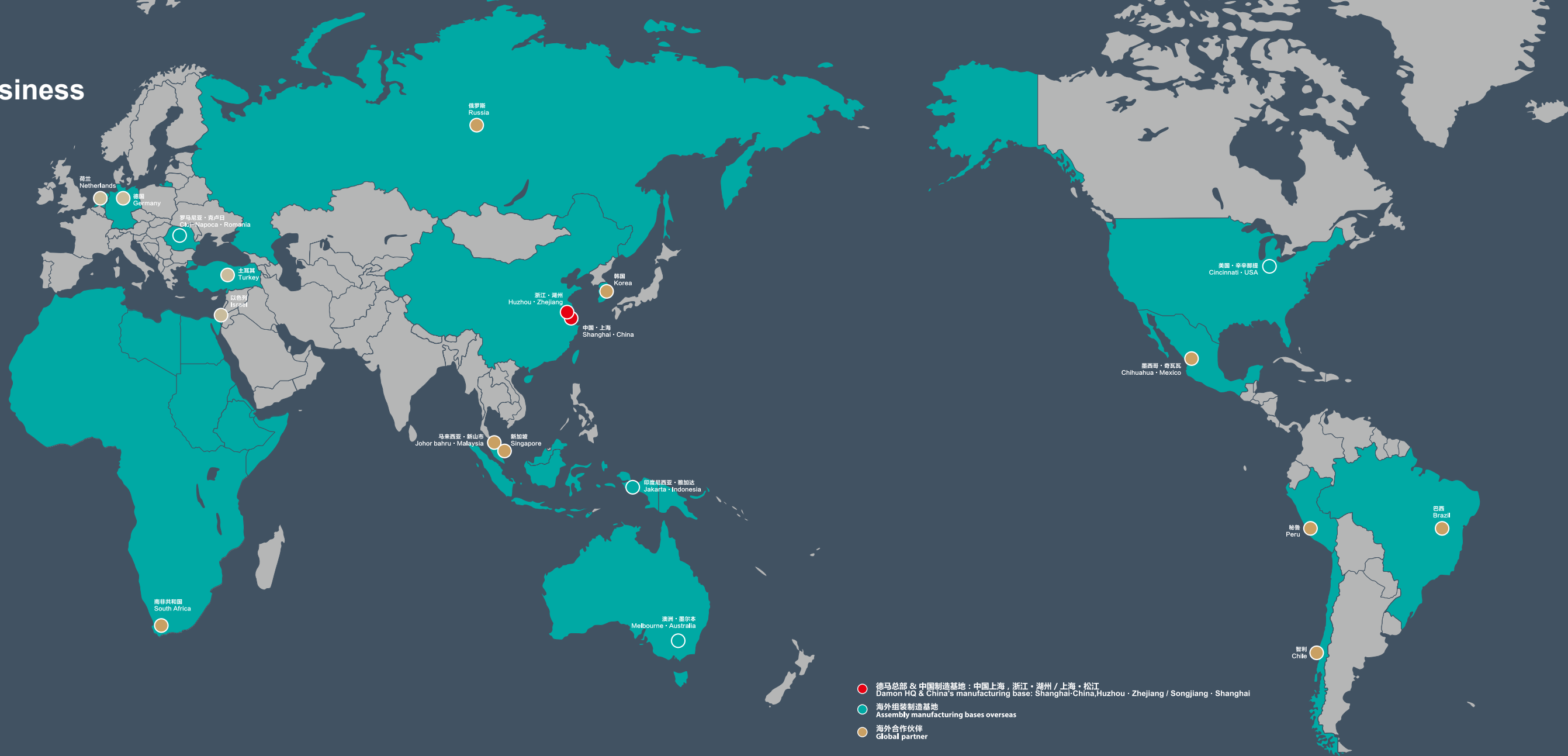
- Damon group .....	1-2
- i-G5 modular intelligent conveyor platform .....	3-4
- Roller conveyor series .....	5-22
- Belt conveyor series .....	23-44
- Sorting conveyor series .....	45-50
- Key components .....	51-58
- Conveyor components .....	59-64
- System components .....	65-80



## DISCLAIMER:

- We cannot guarantee that there are no omissions in this product selection manual, so we are not responsible for any direct or indirect losses caused by the omissions.
- We reserve the right to change any information in this product selection manual without prior notice.
- Damon has the right of final interpretation.

# Damon business section



## Technology changes the world & links the future...

Damon firmly believes that technology, innovation and communication are the forces to change the world and we are devoted to the development and application of new technologies for the automated logistics industry. We will continue to strengthen cooperation and exchanges in technology with domestic and overseas partners to provide high quality products for the logistics equipment industry.

As a leading global provider for the e-commerce and express industries, Damon has five manufacturing bases around the world and a network of global partners. Damon will continue to provide the best solutions for domestic and overseas customers in the e-commerce and express industries.



# i-G5 Modular Intelligent Conveyor Platform

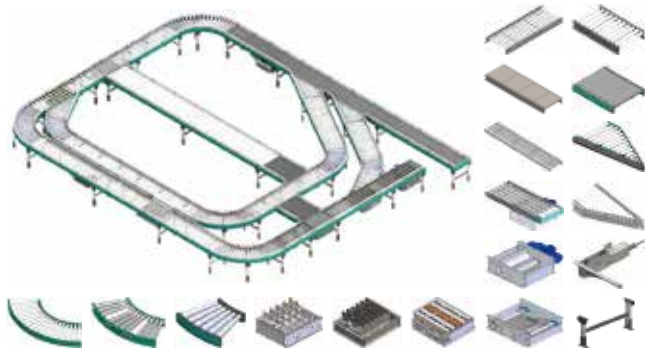
The i-G5 modular intelligent conveyor platform has been developed by Damon’ s R&D team under the guidance of well known domestic and international logistics experts.

Based on the latest technologies for materials, controls, digital, energy saving and industrial engineering, the iG-5 modular intelligent conveyor platform CPS adopts a high performance digital platform.

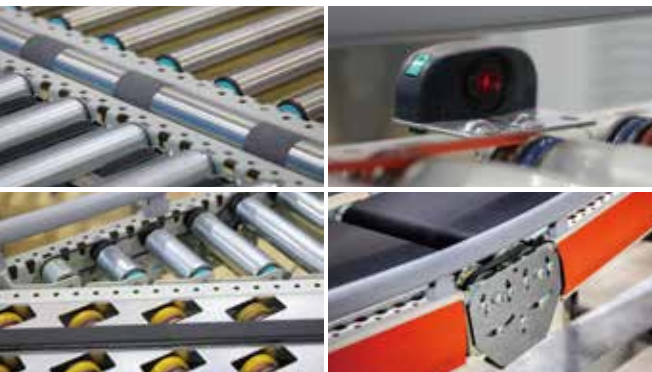
It offers a high degree of flexibility in an attractive form. The i-G5 modular intelligent conveyor platform provides intelligent interaction, smart controls and easy maintenance. Five advantages of the i-G5 modular intelligent conveyor platform are shown below.



**Smart:** ‘Intelligence’ is a highlight of Damon’ s latest i-G5 modular intelligent conveyor platform. The new generation, smart conveyor is based on IoT thinking. The digital platform can provide customers with a wide range of intelligent services making the conveyor always connected to the internet ” . The conveyor works as an intelligent unit in CPS, continuously communicating and interacting with other units which are all supported by the backend operating system. Large amounts of data analysis is available to ensure the system is operating at peak performance.



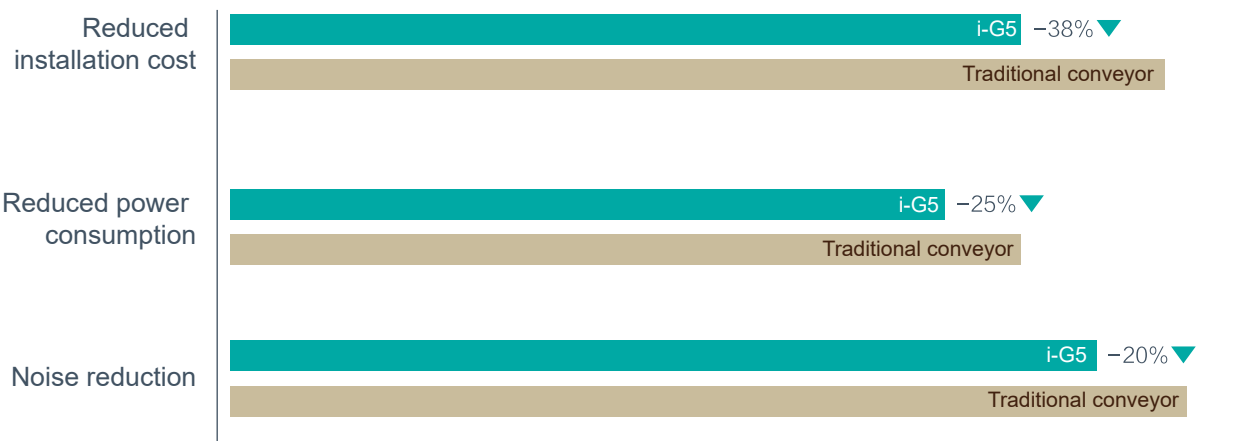
**Flexible:**Due to the high demand of individual system requirements, more and more users want to design their conveyor systems with flexibility. Using standard modules to build personalized systems is the aspiration of every user.



**Attractive:**Through its good looking industrial appearance, the conveyor becomes a piece of industrial art.



**Fast:**High speed performance, high operating efficiency, short delivery times, rapid installation and commissioning...All these requirements are met with i-G5.



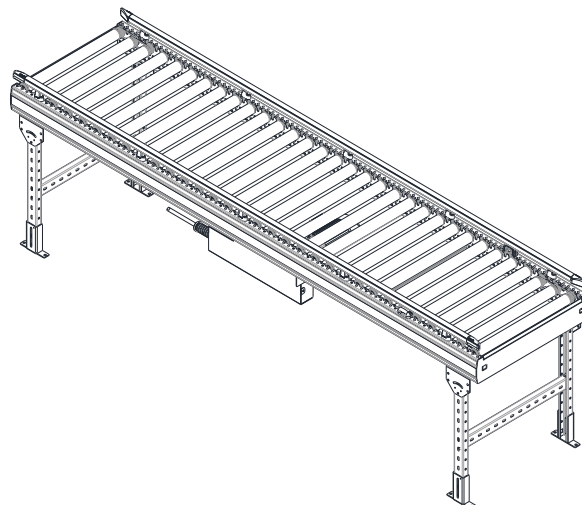
**Green:**Equipped with intelligent, digital energy saving, electric DC rollers and DC drive conveyor motors. Utilizing low noise materials in the mechanical design. Recycling of manufacturing waste materials. These are our commitments to a green future.

# G5201

## Belt Under Roller Conveyor

The belt under roller conveyor utilizes a single narrow belt to contact the rollers above and relies on the friction between the belt and the roller to drive the roller conveyor.

It is suitable for transportation of totes and cartons over a long distance. The longer the conveyor line, the higher the cost savings.



### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、 80、90、100、120m/min
Ambient temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Roller:

Roller type: Damon 1200 series(with clip in shaft retainer)
Diameter: $\Phi 50\text{mm}$
Material: 1.5mm Zinc plated tube

### Drive:

Driving type: AC gear motor(without brake)
Rated Voltage: AC380V/3Ph/50Hz
Drive power: 0.37, 0.55, 0.75, 1.1, 1.5kW
Drive belt: Flat rubber belt with thickness of 2mm
Control system: Damon smart motor controller (optional)

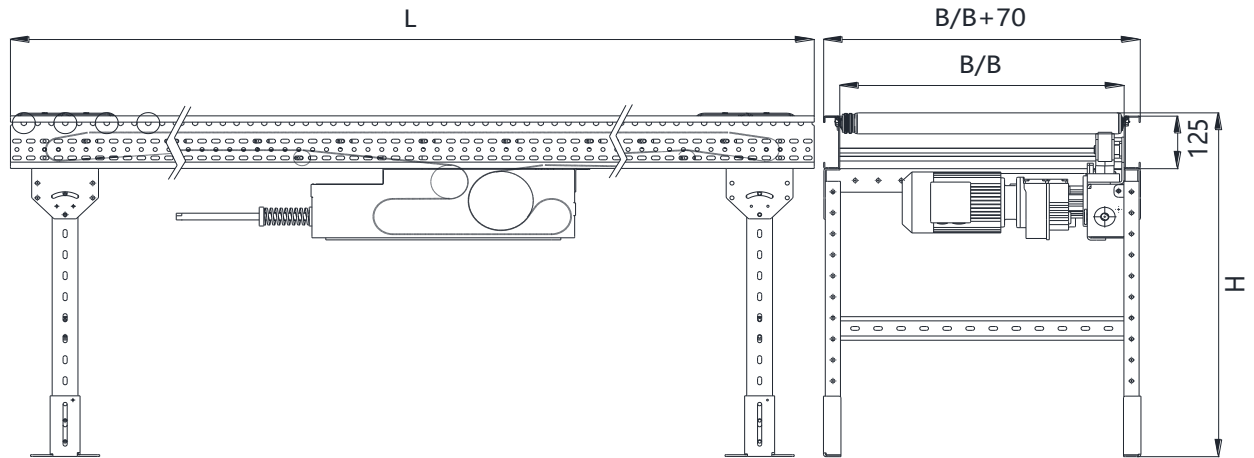
### Installation:

Floor mount: G5001 light duty double supports
Ceiling mount: G5003 hanger (Maximum height of the roller $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Forward & reverse

# G5201

## Belt Under Roller Conveyor

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+70

The width of guard rail: B/B – 5mm installed on the inner side; B/B + 7mm installed on the outer side.

L Length: 5760mm to 20160mm, in increments of 360mm.

RP Roller Pitch: 60、90、120

H Installation Height: ≥305

PGR Guardrail Height: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

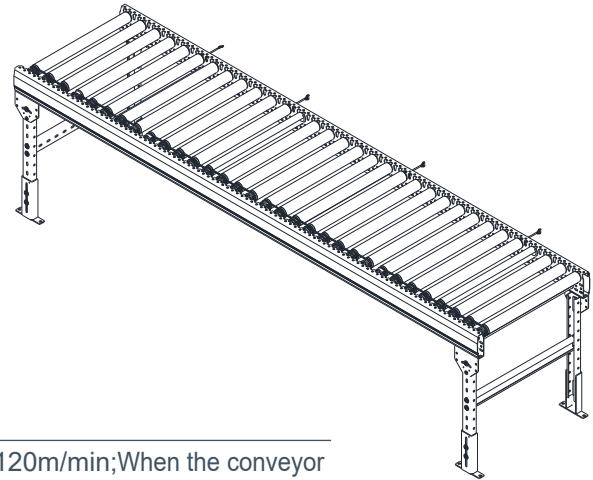
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5301A

## V-Belt Roller Conveyor (24V DC Electric Roller)

The V-belt roller conveyor is comprised of one conveyor unit with 24V DC electric drive rollers. Each electric roller can be used to drive an accumulation zone.

It is suitable for transporting cartons or boxes over a long distance or for zero pressure accumulation.



### Product Performance:

---

Maximum load:  $\leq 50\text{kg/m}$

---

Conveying speed: 30、40、50、60、70、80、90、100、120m/min; When the conveyor is used for accumulation, the speed is  $\leq 80\text{m/min}$ ; Adjustable speed. Please see the specifications for available speed range.

---

Ambient temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

---

Ambient humidity:  $\leq 90\%$  (without Condensation)

### Roller:

---

Roller type: Damon 2250 series (with clip in shaft retainer)

---

Diameter:  $\Phi 50\text{mm}$

---

Material: 1.5mm Zinc plated tube

### Drive:

---

Driving type: Damon brushless electric roller

---

Rated Voltage: DC 24V

---

Drive power: Roller 0.04kW / drive unit

---

Drive belt: V-belt

---

Control system: Damon EZQube-P smart control card

### Installation:

---

Floor mount: G5001 light duty double supports

---

Ceiling mount: G5003 hanger (Maximum height of the roller  $> 2125\text{mm}$ )

---

Connector: G5-FL-04

---

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

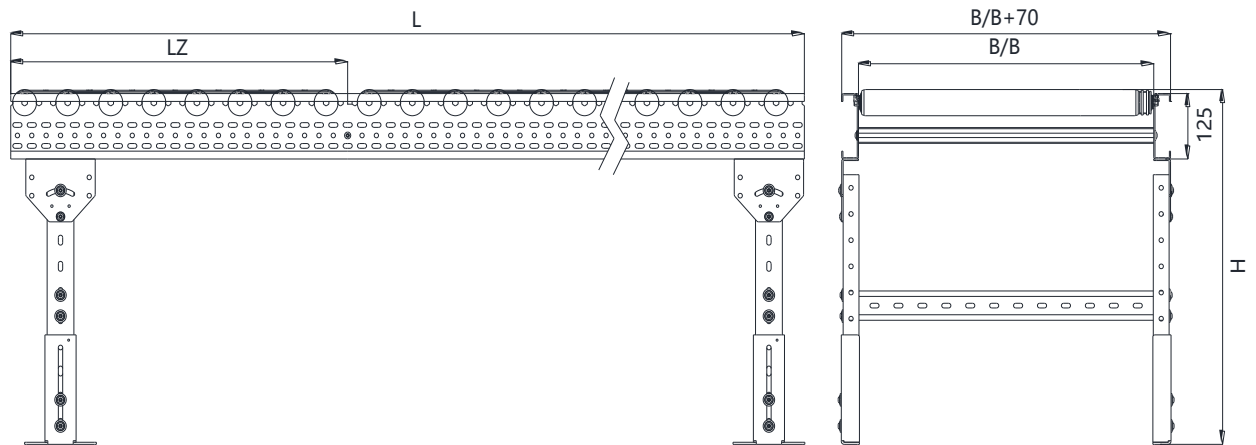
---

Conveying direction: Forward & reverse

# G5301A

## V-Belt Roller Conveyor (24V DC Electric Roller)

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+70

The width of guard rail: B/B – 5mm installed on the inner side; B/B + 7mm installed on the outer side.

L Module length: 1440、2160、2880

LZ The length of drive zone: 720、960、1080、1440

RP Roller Pitch: 60、90、120(When the drive unit is 960mm long, P=90 is not available)

H Installation Height: ≥135

PGR Guardrail Height: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

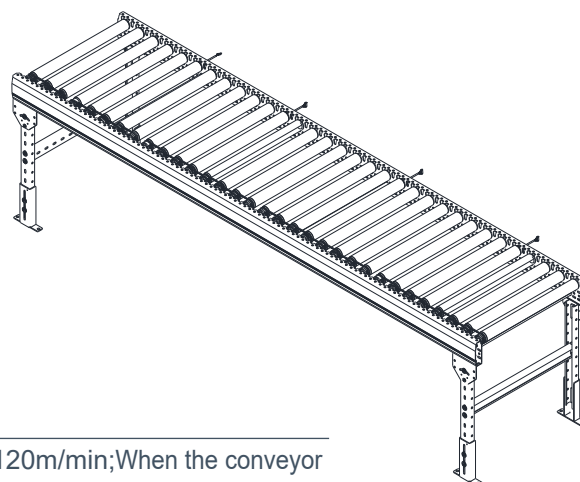


# G5301B

## V-Belt Roller Conveyor (24V DC Electric Motor)

The V-belt roller conveyor is comprised of one conveyor unit with 24V DC electric drive motors. Each electric motor can be used to drive an accumulation zone.

It is suitable for transporting cartons or boxes over a long distance or for zero pressure accumulation.



### Product Performance:

---

Maximum load:  $\leq 50\text{kg/m}$

---

Conveying speed: 30、40、50、60、70、80、90、100、120m/min; When the conveyor is used for accumulation, the speed is  $\leq 80\text{m/min}$ ; Adjustable speed. Please see the specifications for available speed range.

---

Ambient temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

---

Ambient humidity:  $\leq 90\%$  (without Condensation)

### Roller:

---

Roller type: Damon 2250 series (with clip in shaft retainer)

---

Diameter:  $\Phi 50\text{mm}$

---

Material: 1.5mm Zinc plated tube

### Drive:

---

Driving type: Damon brushless motor

---

Rated Voltage: DC 24V

---

Drive power: Roller 0.06kW / drive unit

---

Drive belt: V-belt

---

Control system: Damon DC200 smart control card

### Installation:

---

Floor mount: G5001 light duty double supports

---

Ceiling mount: G5003 hanger (Maximum height of the roller  $> 2125\text{mm}$ )

---

Connector: G5-FL-04

---

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

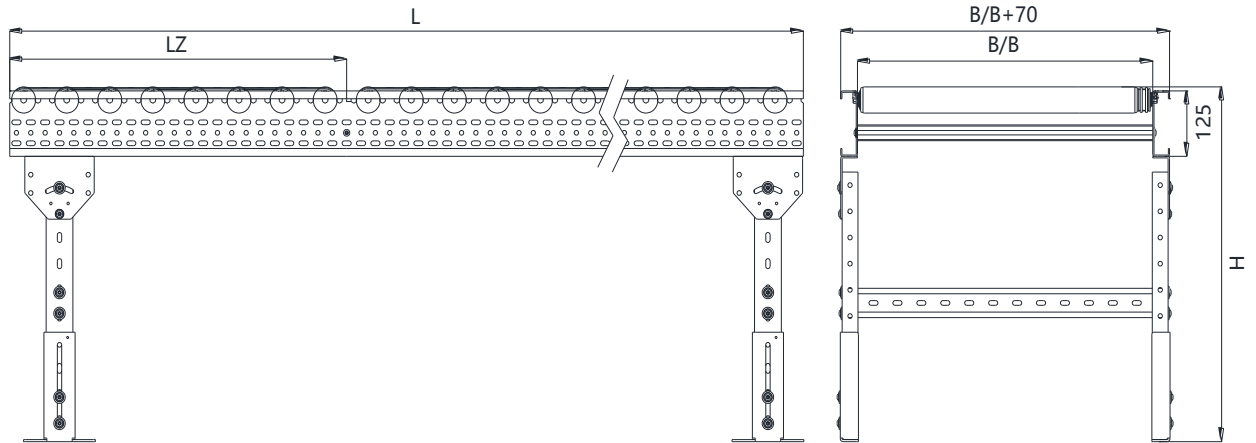
---

Conveying direction: Forward & reverse

# G5301B

## V-Belt Roller Conveyor (24V DC Electric Motor)

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+70

The width of guard rail: B/B – 5mm installed on the inner side; B/B + 7mm installed on the outer side.

L Module length: 1440、2160、2880

LZ The length of drive zone: 720、960、1080、1440

RP Roller Pitch: 60、90、120(When the drive unit is 960mm long, P=90 is not available)

H Installation Height: ≥135

PGR Guardrail Height: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

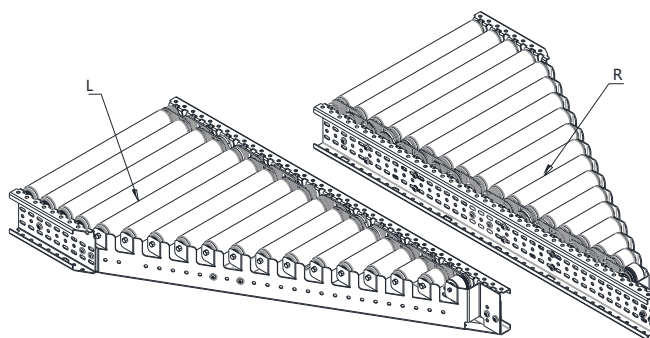


# G5302A

## V-Belt Merge Conveyor (24V DC Electric Roller)

The V-belt merge conveyor is driven by 24V DC electric drive rollers. Slave rollers are driven by the V-belts.

It can be used to merge or divert the product to the adjacent conveyor line without changing the orientation of the product.



### Product Performance:

---

Maximum load:  $\leq 50\text{kg/m}$

---

Conveying speed: 30、40、50、60、70、80、90、100、120m/min; Adjustable speed.

---

Please see the specifications for available speed range.

---

Ambient temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

---

Ambient humidity:  $\leq 90\%$  (without Condensation)

### Roller:

---

Roller type: Damon 2250 series (with clip in shaft retainer)

---

Diameter:  $\Phi 50\text{mm}$  with 2mm PVC sleeves

---

Material: 1.5mm Zinc plated tube

### Installation:

---

Floor mount: G5001 light duty double supports.

---

Ceiling mount: G5003 hanger (Maximum height of the roller  $> 2125\text{mm}$ )

---

Connector: G5-FL-01

---

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

---

Conveying direction: Forward & reverse.

### Drive:

---

Driving type: Damon brushless electric roller

---

Rated Voltage: DC 24V

---

Drive power: Roller 0.04kW / drive unit

---

Drive belt: V-belt

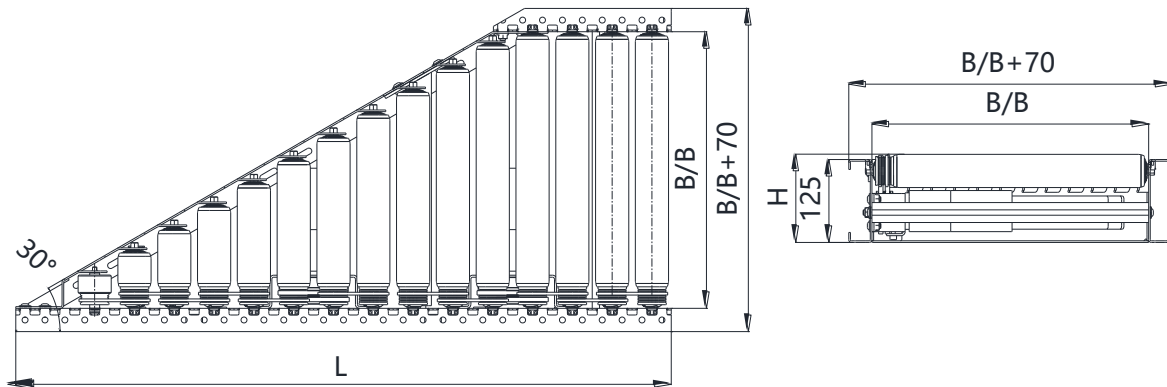
---

Control system: Damon EZQube-P smart control card

# G5302A

## V-Belt Merge Conveyor (24V DC Electric Roller)

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

L Module length: 990、1170、1350、1530、1710、1890

Outer width of the frame: B/B+70

The width of guard rail: B/B – 5mm installed on the inner side; B/B + 7mm installed on the outer side.

LZ The length of drive zone: Multiple options available. Please refer to the specifications for detailed information.

RP Roller Pitch: 60、90

Tilt angle: 30°

Tilt direction: R/L

H Installation Height: ≥150

PGR Guardrail Height: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Each drive section is supplied with one sensor with reflector but not assembled in the factory.
- Supports/hangers, guard rails and end stops are optional.

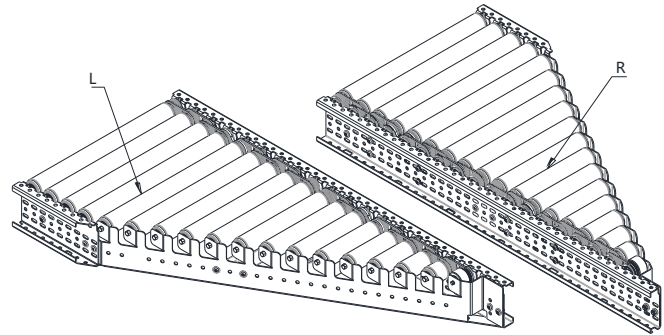
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5302B

## V-Belt Merge Conveyor (24V DC Electric Motor)

The V-belt merge conveyor is driven by 24V DC electric motors. Rollers are driven by the V-belts.

It can be used to merge or divert the product to the adjacent conveyor line without changing the orientation of the product.



### Product Performance:

---

Maximum load:  $\leq 50\text{kg/m}$

---

Conveying speed: 30、40、50、60、70、80、90、100、120m/min;Adjustable speed.

---

Please refer to the specifications for available speed range.

---

Ambient temperature:  $0^{\circ}\text{C}\sim 40^{\circ}\text{C}$

---

Ambient humidity:  $\leq 90\%$ (without Condensation)

### Roller:

---

Roller type: Damon 2250 series(with clip in shaft retainer)

---

Diameter:  $\Phi 50\text{mm}$  with 2mm PVC sleeves

---

Material: 1.5mm Zinc plated tube

### Drive:

---

Driving type:Damon brushless motor

---

Rated Voltage:DC 24V

---

Drive power:Roller 0.06kW / drive unit

---

Drive belt:V-belt

---

Control system:Damon DC200 smart control card

### Installation:

---

Floor mount: G5001 light duty double supports.

---

Ceiling mount: G5003 hanger (Maximum height of the roller  $> 2125\text{mm}$ )

---

Connector: G5-FL-01

---

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

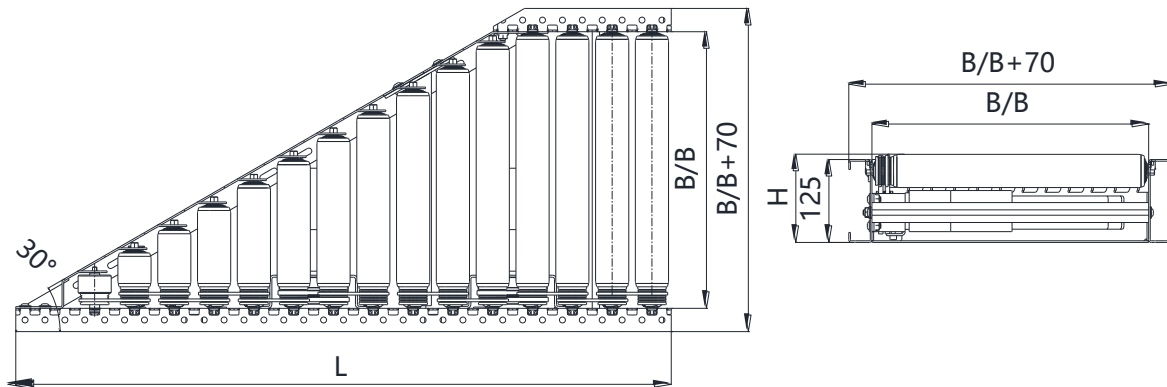
---

Conveying direction: Forward & reverse.

# G5302B

## V-Belt Merge Conveyor (24V DC Electric Motor)

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

L Module length: 990、1170、1350、1530、1710、1890

Outer width of the frame: B/B+70

The width of guard rail: B/B – 5mm installed on the inner side; B/B + 7mm installed on the outer side.

LZ The length of drive zone: Multiple options available. Please refer to the specifications for detailed information.

RP Roller Pitch: 60、90

Tilt angle: 30°

Tilt direction: R/L

H Installation Height: ≥150

PGR Guardrail Height: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Each drive section is supplied with one sensor with reflector but not assembled in the factory.
- Supports/hangers, guard rails and end stops are optional.

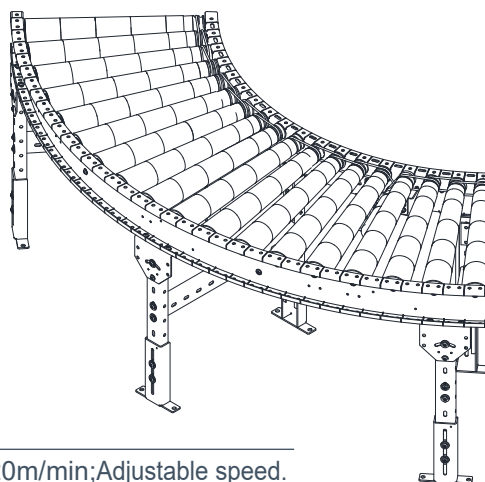
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5303A

## Round Belt Curve Roller Conveyor (24V DC Electric Roller)

The round belt curve roller conveyor is driven by fixed length round belts.

It is used to change the transport direction of product without changing the orientation of the product.



### Product Performance:

Maximum load:  $\leq 50\text{kg/m}$

Conveying speed: 30、40、50、60、70、80、90、100、120m/min; Adjustable speed.

Please refer to the specifications for available speed range.

Ambient temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Ambient humidity:  $\leq 90\%$  (without Condensation)

### Roller:

Roller type: Damon 2640 series, double O belt grooves (with plug-in shaft card)

Diameter:  $\Phi 50\text{mm}$

Material: 1.5mm Zinc plated tube, with plastics sleeves

### Installation:

Floor mount: G5001 light duty double supports.

Ceiling mount: G5003 hanger (Maximum height of the roller  $> 2125\text{mm}$ )

Connector: G5-FL-01

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

Conveying direction: Forward & reverse.

### Drive:

Driving type: Damon brushless electric roller

Rated Voltage: DC 24V

Drive power:  $30^{\circ}$ 、 $45^{\circ}$  0.04×1/each

$60^{\circ}$ 、 $90^{\circ}$  0.04×2/each

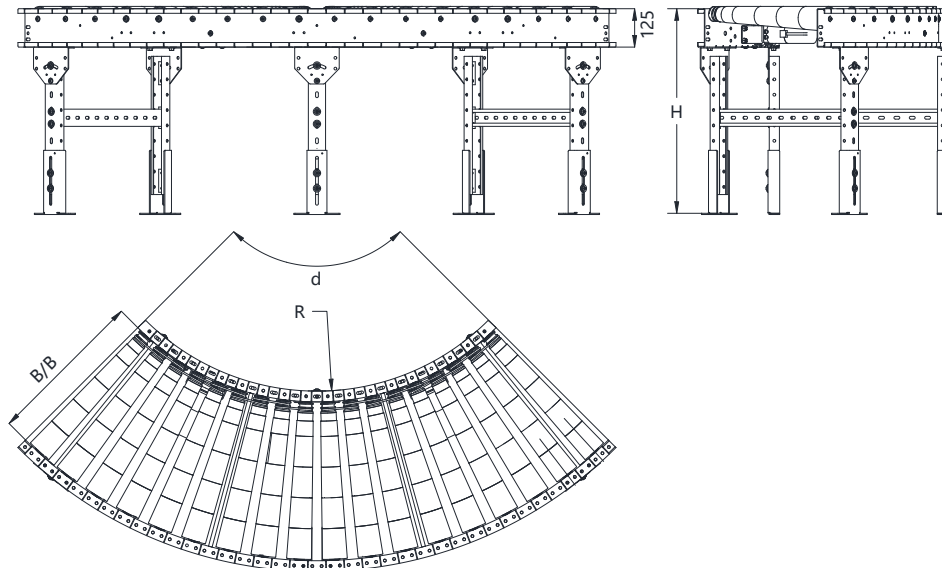
Drive belt: V-belt

Control system: Damon EZQube-P smart control card

# G5303A

## Round Belt Curve Roller Conveyor (24V DC Electric Roller)

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame:  $B/B+70$

The width of guard rail:  $B/B-5$  is installed in the inner side;  $B/B+7$  is installed in the outer side.

L Inner diameter: 825

LZ Roller Pitch: Small end 72mm

RP Angle: 30°、45°、60°、90°

H Installation Height:  $\geq 135$

PGR Guardrail Height: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Each drive section is supplied with one sensor with reflector but not assembled in the factory.
- Supports/hangers, guard rails and end stops are optional.

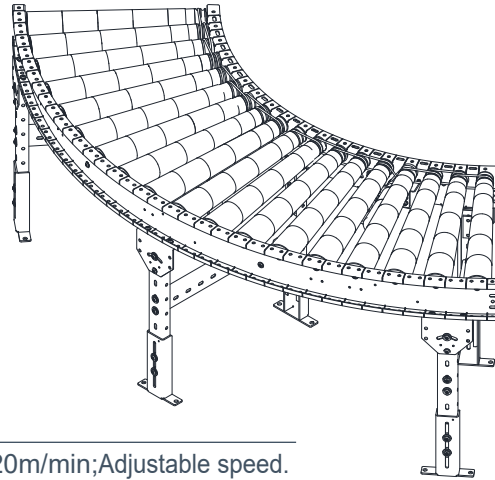
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5303B

## Round Belt Curve Roller Conveyor (24V DC Electric Motor)

The round belt curve roller conveyor is driven by fixed length round belts.

It is used to change the transport direction of product without changing the orientation of the product.



### Product Performance:

Maximum load:  $\leq 50\text{kg/m}$

Conveying speed: 30、40、50、60、70、80、90、100、120m/min; Adjustable speed.

Please refer to the specifications for available speed range.

Ambient temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Ambient humidity:  $\leq 90\%$  (without Condensation)

### Roller:

Roller type: Damon 2640 series, double O belt grooves (with plug-in shaft card)

Diameter:  $\Phi 50\text{mm}$

Material: 1.5mm Zinc plated tube, with plastics sleeves

### Installation:

Floor mount: G5001 light duty double supports.

Ceiling mount: G5003 hanger (Maximum height of the roller  $> 2125\text{mm}$ )

Connector: G5-FL-01

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

Conveying direction: Forward & reverse.

### Drive:

Driving type: Damon brushless motor

Rated Voltage: DC 24V

Drive power:  $30^{\circ}$ 、 $45^{\circ}$  0.06×1/each

$60^{\circ}$ 、 $90^{\circ}$  0.06×2/each

Drive belt: V-belt

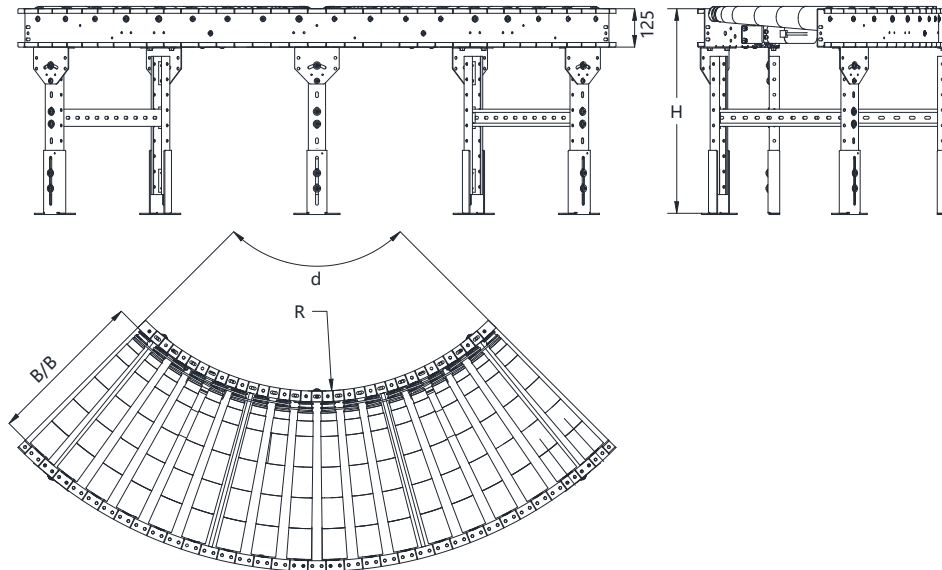
Control system: Damon EZQube-P smart control card



# G5303B

## Round Belt Curve Roller Conveyor (24V DC Electric Motor)

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame:  $B/B + 70$

The width of guard rail:  $B/B - 5\text{mm}$  installed on the inner side;  $B/B + 7\text{mm}$  installed on the outer side.

L Inner diameter: 825

LZ Roller Pitch: Small end 72mm

RP Angle: 30°、45°、60°、90°

H Installation Height:  $\geq 135$

PGR Guardrail Height: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Each drive section is supplied with one sensor with reflector but not assembled in the factory.
- Supports/hangers, guard rails and end stops are optional.

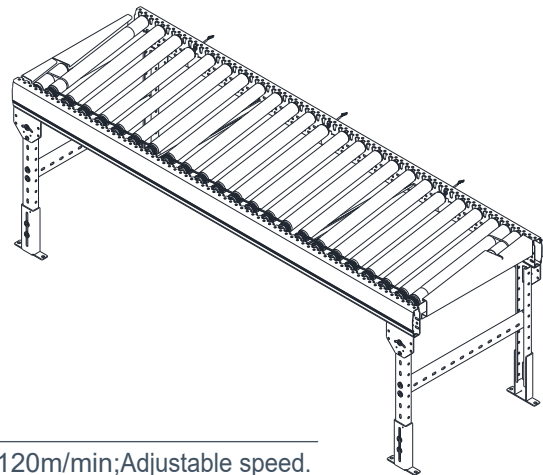
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5304

## V-Belt Skewed Roller Conveyor

The rollers in the skewed roller conveyor are installed on an angle. The product transported on the skewed roller conveyor is aligned to one side before transportation is complete.

It is typically used to align items to one side prior to scanning.



### Product Performance:

---

Maximum load:  $\leq 50\text{kg/m}$

---

Conveying speed: 30、40、50、60、70、80、90、100、120m/min;Adjustable speed.

---

Please refer to the specifications for available speed range.

---

Ambient temperature:  $0^{\circ}\text{C}\sim 40^{\circ}\text{C}$

---

Ambient humidity:  $\leq 90\%$ (without Condensation)

### Roller:

---

Roller type: Damon 2250 series(with clip in shaft retainer)

---

Diameter:  $\Phi 50\text{mm}$

---

Material: 1.5mm Zinc plated tube

### Drive:

---

Driving type:Damon brushless electric roller

---

Rated Voltage:DC 24V

---

Drive power:Roller 0.04kW / drive unit

---

Drive belt:V-belt

---

Control system:Damon EZQube-P smart control card

### Installation:

---

Floor mount: G5001 light duty double supports.

---

Ceiling mount: G5003 hanger (Maximum height of the roller  $> 2125\text{mm}$ )

---

Connector: G5-FL-01

---

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

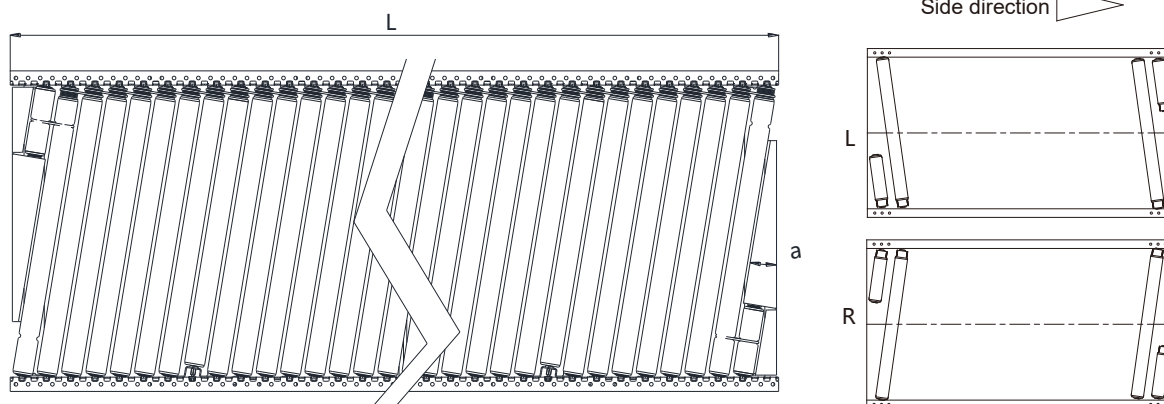
---

Conveying direction: Forward & reverse.

# G5304

## V-belt bevel roller conveyor

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817

Outer width of the frame: B/B+70

The width of guard rail: B/B -5mm installed on the inner side; B/B +7mm installed on the outer side. Multiple options available. Please refer to the specifications for detailed information.

L Module length: 1440、1800、2160

LZ The length of drive zone: Multiple specifications, please see Application Guide for detailed information.

RP Roller Pitch: 90、120

H Installation Height:  $\geq 135$

PGR Guardrail Height: 65、80

	B/B: 517	617	717	817
$\alpha$ angle(°)	RP90: 9.88°	8.3°	9.51°	4.79°
	RP120: 6.62°	5.56°	8.36°	6.29°

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are with aluminum alloy anodized color.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

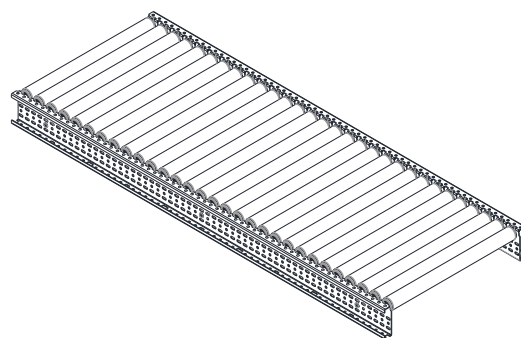
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5601

## Gravity Roller Conveyor

Gravity rollers conveyors can greatly reduce the labor required for manual handling. When installed on a decline angle, product can be transported using gravity, even without a push.

Gravity conveyors are suitable for transporting cartons and boxes and can be used in a wide variety of applications.



### Product Performance:

---

Maximum load:  $\leq 50\text{kg/m}$

---

Ambient temperature:  $5^{\circ}\text{C} \sim 45^{\circ}\text{C}$

---

Ambient humidity:  $\leq 90\%$  (without Condensation)

### Roller:

---

Roller type: Damon 1200 series (with plug-in shaft card)

---

Diameter:  $\Phi 50.6\text{mm}$

---

Material: 1.5mm Zinc magnesium aluminum tube

### Installation:

---

Installed to the floor: G5001 light double supports

---

Hoisting: G5003 hanger (The max height of roller surface  $> 2125\text{mm}$ )

---

Connector: G5-FL-01

---

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

---

Tilt angle: The Angle  $\leq 5^{\circ}$

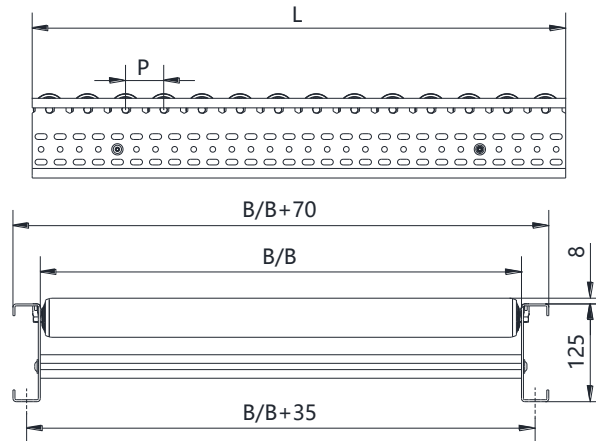
---

Conveying direction: One - way or two - way delivery.

# G5601

## Gravity roller conveyor

### Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+70

The width of guard rail: B/B –5mm installed on the inner side; B/B +7mm installed on the outer side.

L Module length: 14400mm to 2880mm, increased by 360mm

RP Roller Pitch: 60、90、120

Installation Height: ≥135

PGR Guardrail Height: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are with aluminum alloy anodized color.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

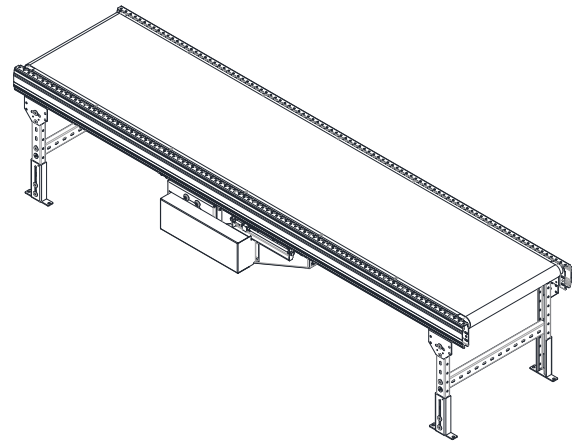
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5101

## Center Drive Slider Bed Belt Conveyor

The Center Drive Slider Bed Conveyor utilizes a flat belt supported by a slider bed to transport the goods. The center drive provides reliable operation with a high drive capacity.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for horizontal conveying over a long distance.



### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: Flat belt
Belt thickness: 2.1mm(The belt surface is 8mm higher than frame surface.)
Belt material: PVC, matte black

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

### Drive:

Drive type: AC gear motor(without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.37、0.55、0.75、1.1、1.5kW
Drive method: 2mm thick rubber flat belt
Control: Damon smart motor controller (optional)
Drive location: R (the cover of drive chain is located on the right side of the conveying direction) L (the cover of drive chain is located on the left side of the conveying direction)

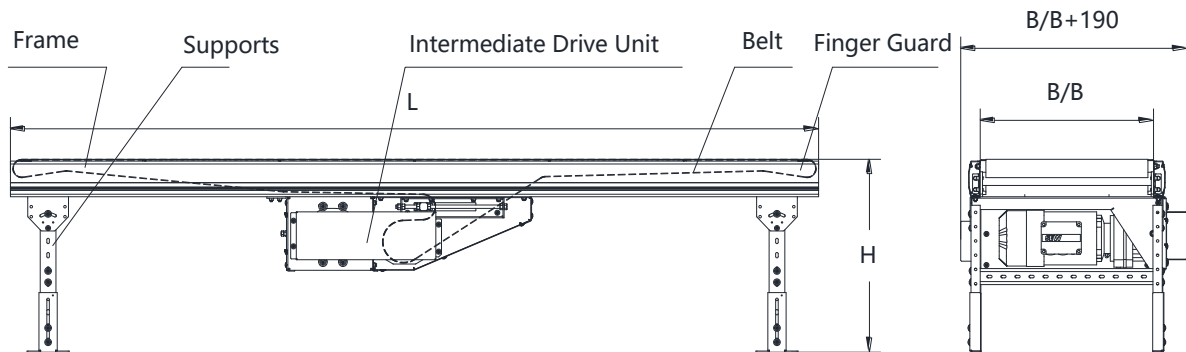
### Installation:

Floor mount: G5001 light duty double supports
Ceiling mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Forward & reverse
Bottom cover: The drive components are fitted with a 1.5mm thick bottom cover as standard. Optional covers can be supplied for all other sections when required.

# G5101

## Center Drive Slider Bed Belt Conveyor

### Standard Specifications:



B/B Inner width of the frame : 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B -5mm installed on the inner side;

L B/B +7mm installed on the outer side.

H Length: 1440mm-15120mm, in increments of 360mm.

PGR Installation height: ≥400

The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

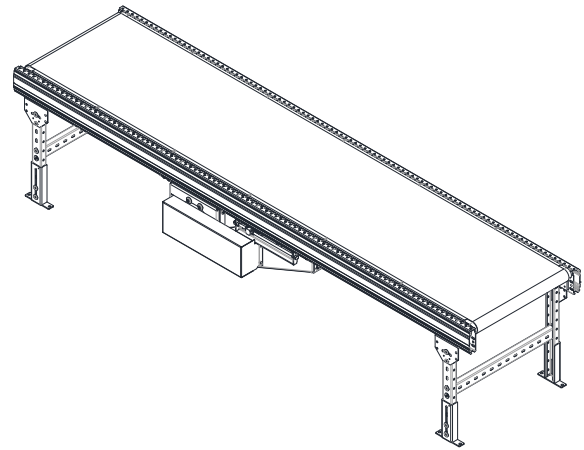


# G5102

## Center Drive Roller Bed Belt Conveyor

The Center Drive Slider Bed Conveyor utilizes a flat belt supported by a slider bed to transport the goods. The center drive provides reliable operation with a high drive capacity.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for horizontal conveying over a long distance.



### Product Performance:

Maximum load:  $\leq 50\text{kg/m}$

Conveying speed: 30、40、50、60、70、80、90、100、120m/min

Ambient temperature:  $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$

Ambient humidity:  $\leq 90\%$ (without Condensation)

### Belt:

Belt type: Flat belt

Belt thickness: 2.1mm(The belt surface is 8mm higher than frame surface.)

Belt material: PVC, matte black

### Roller bed:

Roller bed type: Damon 1.200 series

Diameter:  $\Phi 50\text{mm}$

Material: 1.5mm zinc plated tube

### Drive:

Drive type: AC gear motor(without brake)

Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)

Drive power: 0.37、0.55、0.75、1.1、1.5kW

Drive method: 2mm thick rubber flat belt

Control: Damon smart motor controller (optional)

Drive location: R (the cover of drive chain is located on the right side of the conveying direction)

L (the cover of drive chain is located on the left side of the conveying direction)

### Installation:

Floor mount: G5001 light duty double supports

Ceiling mount: G5003 hanger (The height from roller surface to the ground should  $> 2125\text{mm}$ )

Connector: G5-FL-04

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

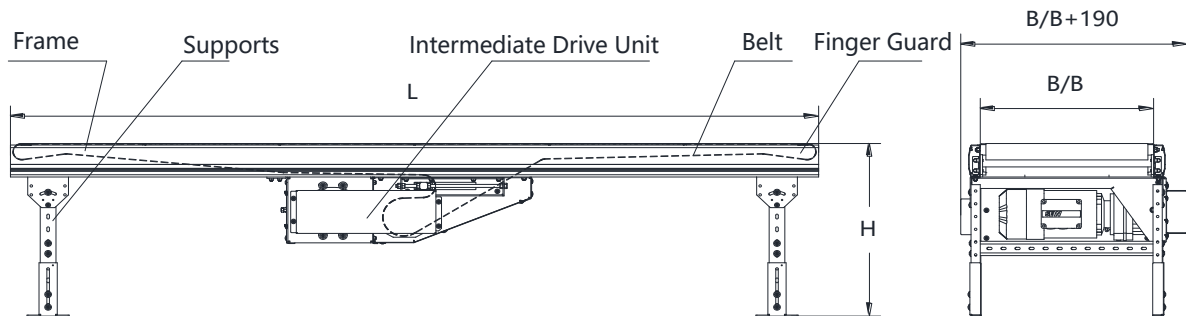
Conveying direction: Forward & reverse

Bottom cover: The drive components are fitted with a 1.5mm thick bottom cover as standard. Optional covers can be supplied for all other sections when required.

# G5102

## Center Drive Roller Bed Belt Conveyor

### Standard Specifications:



B/B Inner width of the frame : 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B –5mm installed on the inner side;  
B/B +7mm installed on the outer side.

L Length: 1440mm-15120mm, increased by 360mm

H Installation height: ≥400

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5103A

## Center Drive Slider Bed Incline Belt Conveyor

The Center Drive Slider Bed Incline Belt Conveyor is used to transport goods to a different height. The conveyor uses a longitudinal groove belt supported by a slider bed and is fitted with a center drive unit.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for changing the conveying height.



### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: longitudinal groove on the incline section, flat belt on the lower section.
Belt thickness: 3.1mm (the belt surface is 8mm higher than the top of frame)
Belt material: PVC, matte black

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

### Drive:

Drive type: AC gear motor(without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.37、0.55、0.75、1.1、1.5、2.2kW
Drive method: 2mm thick rubber flat belt
Control: Damon smart motor controller (optional)
Drive location: R (the cover of drive chain is located on the right side of the conveying direction) L (the cover of drive chain is located on the left side of the conveying direction)

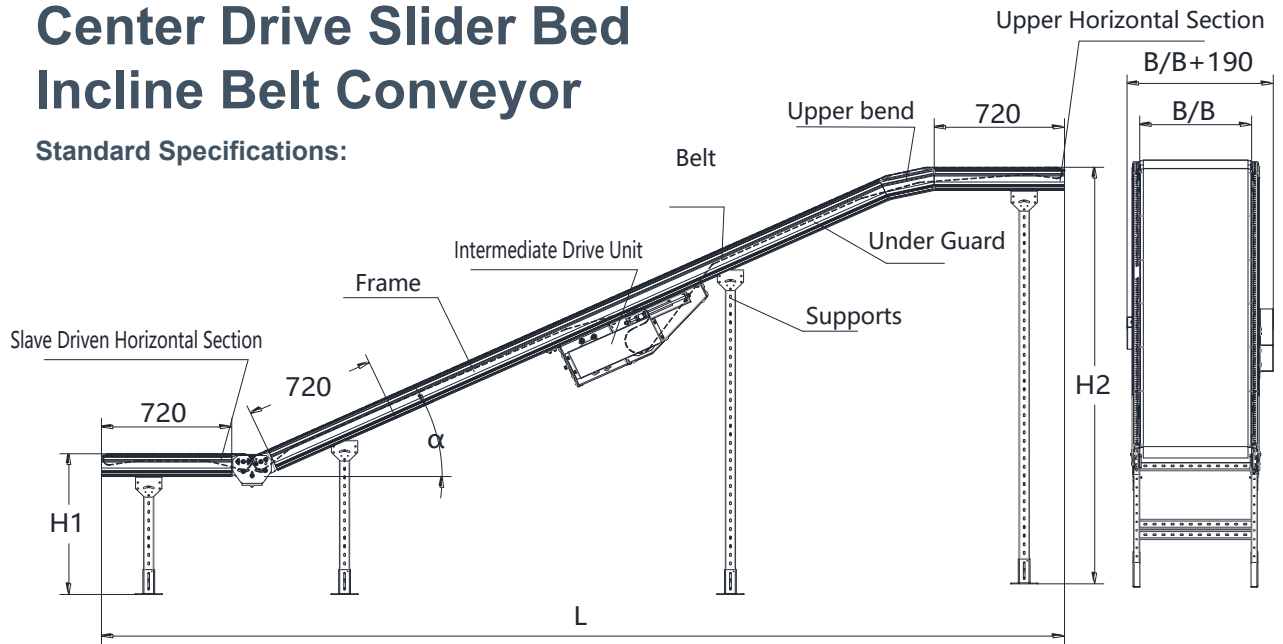
### Installation:

Floor mount: G5001 light duty double supports
Ceiling mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Forward & reverse
Bottom cover: The drive components are fitted with a 1.5mm thick bottom cover as standard. Optional covers can be supplied for all other sections when required.

# G5103A

## Center Drive Slider Bed Incline Belt Conveyor

Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.

L Length: Incline section 2520-15120mm long, in increments of 360mm.

The total length of conveyor is 4225-17055mm.

α Tilt angle: 2.5°~25°

H1 The installation height of the lower  
conveying part: ≥400

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5103B

## Center Drive Slider Bed Decline Belt Conveyor

The Center Drive Slider Bed Decline Belt Conveyor is used to transport goods to a different height. The conveyor uses a longitudinal groove belt supported by a slider bed and is fitted with a center drive unit.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for changing the conveying height.



### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: longitudinal groove on the incline section, flat belt on the lower section.
Belt thickness: 3.1mm (the belt surface is 8mm higher than the top of frame)
Belt material: PVC, matte black

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

### Drive:

Drive type: AC gear motor(without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.37、0.55、0.75、1.1、1.5、2.2kW
Drive method: 2mm thick rubber flat belt
Control: Damon smart motor controller (optional)
Drive location: R (the cover of drive chain is located on the right side of the conveying direction) L (the cover of drive chain is located on the left side of the conveying direction)

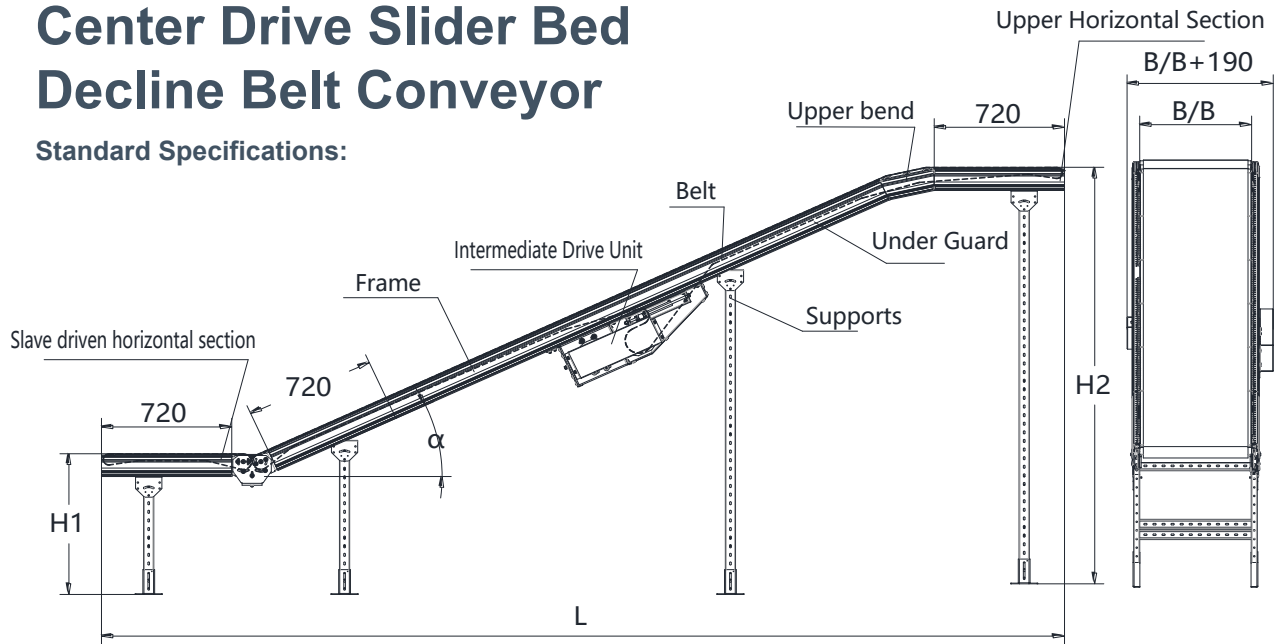
### Installation:

Floor mount: G5001 light duty double supports
Ceiling mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Forward & reverse
Bottom cover: The drive components are fitted with a 1.5mm thick bottom cover as standard. Optional covers can be supplied for all other sections when required.

# G5103B

## Center Drive Slider Bed Decline Belt Conveyor

Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B – 5mm installed on the inner side; B/B + 7mm installed on the outer side.

L Length: Incline section 2520-15120mm long, in increments of 360mm.

The total length of conveyor is 4225-17055mm.

$\alpha$  Tilt angle: 2.5°~25°

H1 The installation height of the lower  
conveying part:  $\geq 400$

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5104

## Center Drive Roller Bed Incline Belt Conveyor

The Center Drive Slider Bed Incline Belt Conveyor is used to transport goods to a different height. The conveyor uses a longitudinal groove belt supported by a roller bed and is fitted with a center drive unit.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for changing the conveying height.



### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: longitudinal ribbed belt in the incline part(flat belt in the level part)
Belt thickness: 3.1mm(The belt surface is 8mm higher than frame surface.)
Belt material: PVC, matte black

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

### Drive:

Drive type: AC gear motor(without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.37、0.55、0.75、1.1、1.5、2.2kW
Drive method: 2mm thick rubber flat belt
Control: Damon smart motor controller (optional)
Drive location: R (the cover of drive chain is located on the right side of the conveying direction) L (the cover of drive chain is located on the left side of the conveying direction)

### Installation:

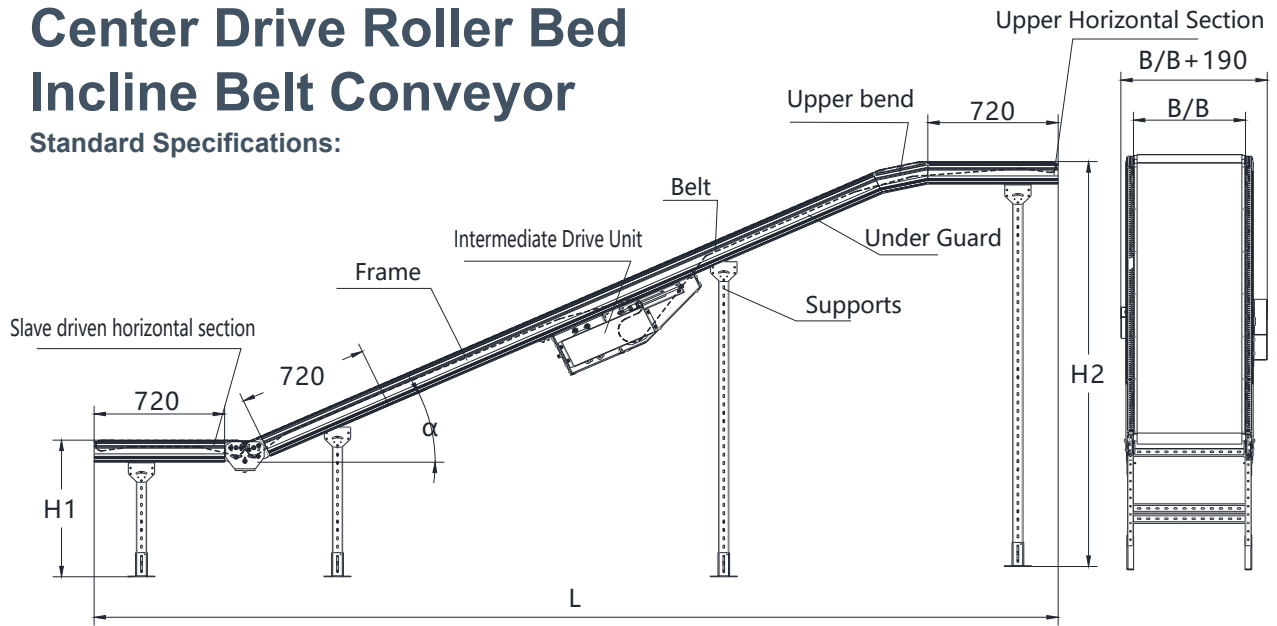
Floor mount: G5001 light duty double supports
Ceiling mount: G5003 hanger(The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Single direction only
Bottom cover: The drive components are fitted with a 1.5mm thick bottom cover as standard. Optional covers can be supplied for all other sections when required.



# G5104

## Center Drive Roller Bed Incline Belt Conveyor

Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.

L Length: Incline section 2520-15120mm long, in increments of 360mm.

The total length of conveyor is 4225-17055mm.

RP Roller pitch: 120、180、240

α Tilt angle: 2.5°~25°

H1 The installation height of the lower  
conveying part: ≥400

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are their silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

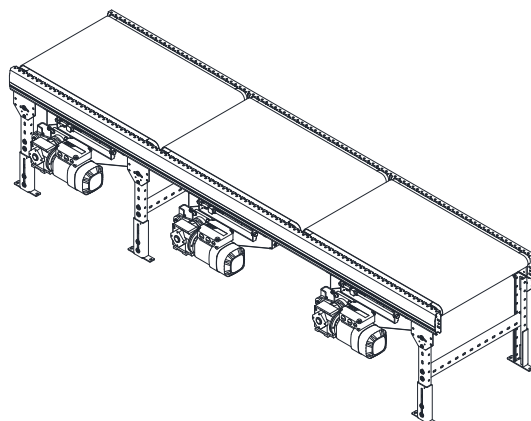
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5105

## Metering Belt Conveyor

The Metering Belt Conveyor is used to separate goods through increases in conveyor speed. It is generally used to pull apart and separate goods prior to sorting to ensure sorting accuracy. The conveyor uses a longitudinal groove belt supported by a roller bed and is fitted with a center drive unit.

It can transport light or heavy, regular and irregular shaped products.



### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: longitudinal groove
Belt thickness: 3.1mm (the belt surface is 8mm higher than the top of frame)
Belt material: PVC, matte black

### Installation:

Floor mount: G5001 light duty double supports.
Ceiling mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Forward & reverse.

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

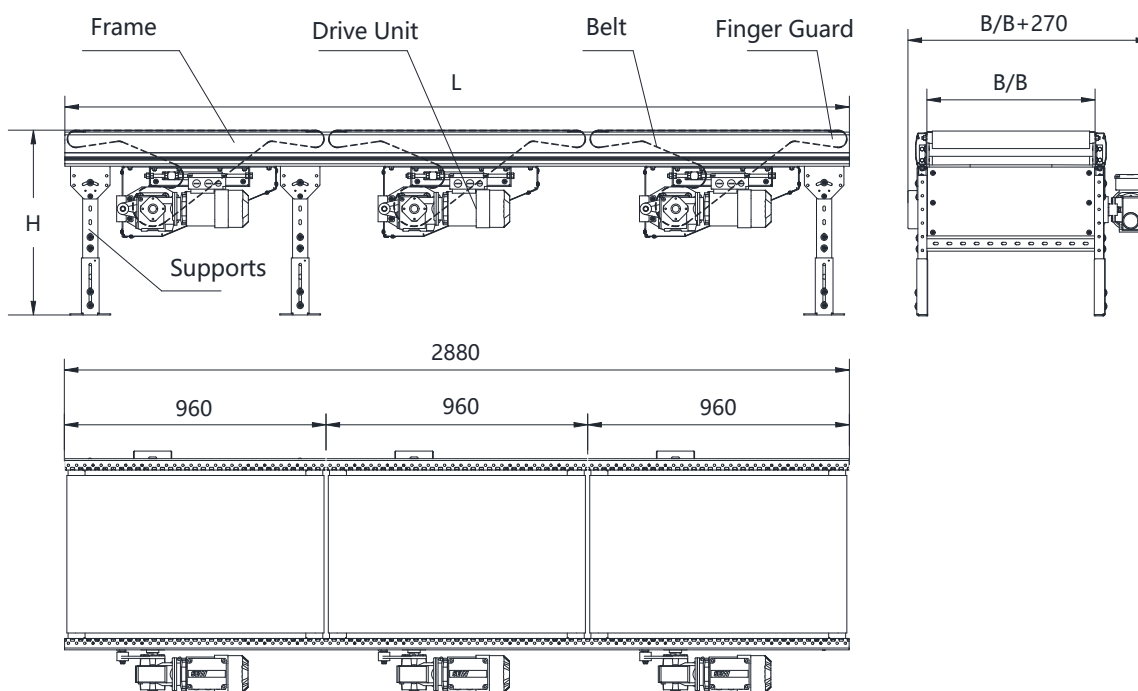
### Drive:

Drive type: AC gear motor (without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.55kW
Drive method: Synchronous belt
Control: Damon smart motor controller (optional)
Driving location: R (The cover of drive chain is located on the right side of the conveying direction) L (The cover of drive chain is located on the left side of the conveying direction)

# G5105

## Metering Belt Conveyor

标准规格:



L=2880, 960/段

B/B Inner width of the frame : 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B -5mm installed on the inner side;  
B/B +7mm installed on the outer side.

L Length: 960(Driver number:1),1920(Driver number:2),1920(Driver number:3)

H Installation height:  $\geq 400$

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5106A

## Center Drive Slider Bed Incline Belt Conveyor

The Center Drive Slider Bed Incline Belt Conveyor is used to transport goods to a different height. The conveyor uses a longitudinal groove belt supported by a slider bed and is fitted with a center drive unit.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for changing the conveying height.

### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、 100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: longitudinal groove on the incline section, flat belt on the lower section
Belt thickness: 3.1mm (the belt surface is 8mm higher than the top of frame)
Belt material: PVC, matte black

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

### Drive:

Drive type: AC gear motor (without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.37、0.55、0.75、1.1、1.5、2.2kW
Drive method: Synchronous belt
Control: Damon smart motor controller (optional)
Driving location: R (The cover of drive chain is located on the right side of the conveying direction) L (The cover of drive chain is located on the left side of the conveying direction)



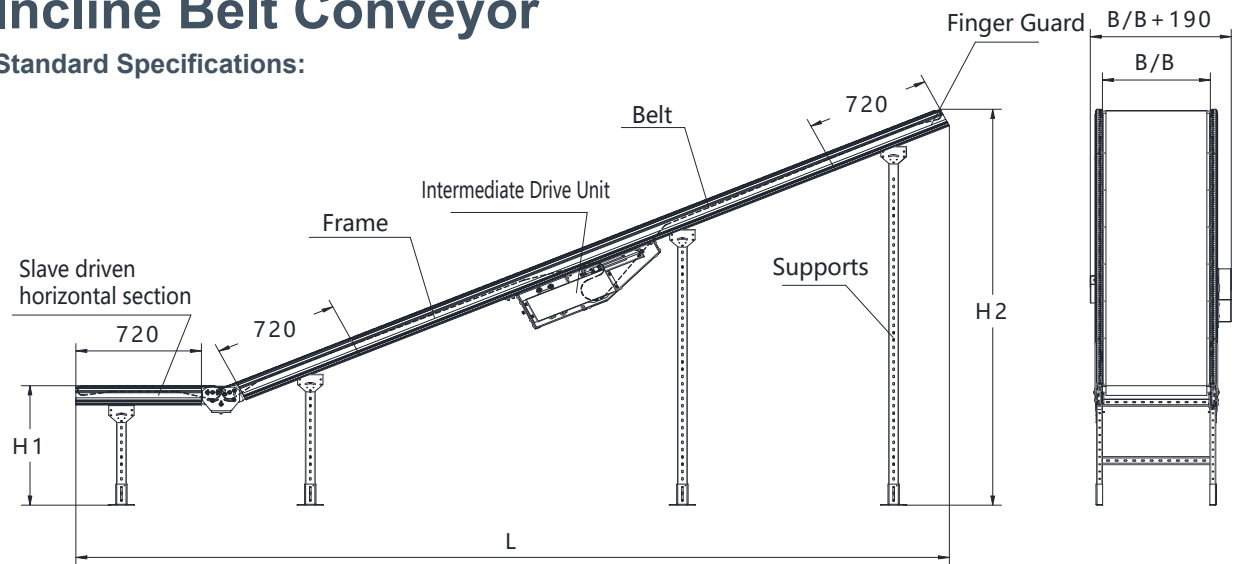
### Installation:

Floor mount: G5001 light duty double supports
Ceiling mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Single direction only
Bottom cover: The drive components are fitted with a 1.5mm thick bottom cover as standard. Optional covers can be supplied for all other sections when required.

# G5106A

## Center Drive Slider Bed Incline Belt Conveyor

Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.

L Length: Incline section 2520-15120mm long, in increments of 360mm

The total length of conveyor 4225-17055mm.

$\alpha$  Tilt angle: 2.5°~25°

H1 The installation height of the lower  
conveying part:  $\geq 400$

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5106B

## Center Drive Slider Bed Decline Belt Conveyor

The Center Drive Slider Bed Decline Belt Conveyor is used to transport goods to a different height. The conveyor uses a longitudinal groove belt supported by a slider bed and is fitted with a center drive unit.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for changing the conveying height.

### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: longitudinal groove on the incline section, flat belt on the lower section
Belt thickness: 3.1mm (the belt surface is 8mm higher than the top of frame)
Belt material: PVC, matte black

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

### Drive:

Drive type: AC gear motor(without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.37、0.55、0.75、1.1、1.5、2.2kW
Drive method: Synchronous belt
Control: Damon smart motor controller (optional)
Driving location: R (The cover of drive chain is located on the right side of the conveying direction) L (The cover of drive chain is located on the left side of the conveying direction)



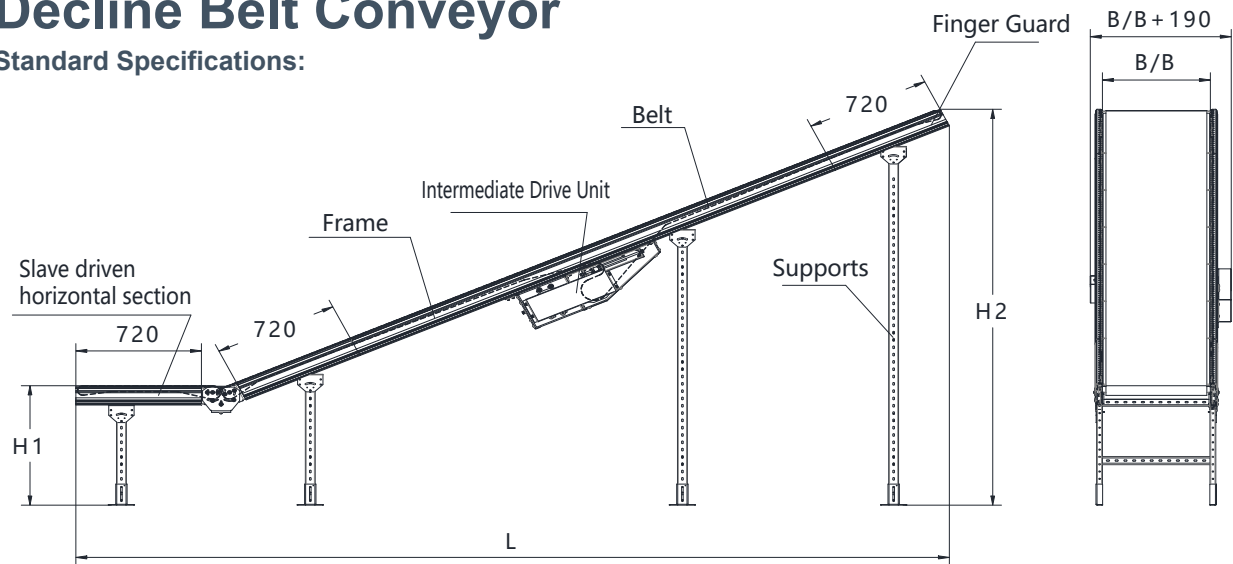
### Installation:

Floor mount: G5001 light duty double supports
Ceiling mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Single direction only
Bottom cover: It is optional, with thickness of 1.5mm. It's made of zinc-coated steel plate.

# G5106B

## Center Drive Slider Bed Decline Belt Conveyor

Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.

L Length: Incline section 2520-15120mm long, in increments of 360mm.

The total length of conveyor is 4225-17055mm.

$\alpha$  Tilt angle: 2.5°~25°

H1 The installation height of the lower  
conveying part:  $\geq 400$

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5107A

## Center Drive Roller Bed Incline Belt Conveyor

The Center Drive Slider Bed Incline Belt Conveyor is used to transport goods to a different height. The conveyor uses a longitudinal groove belt supported by a roller bed and is fitted with a center drive unit.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for changing the conveying height.



### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: longitudinal groove on the incline section, flat belt on the lower section
Belt thickness: 3.1mm (the belt surface is 8mm higher than the top of frame)
Belt material: PVC, matte black

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

### Drive:

Drive type: AC gear motor(without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.37、0.55、0.75、1.1、1.5、2.2kW
Drive method: Synchronous belt
Control: Damon smart motor controller (optional)
Driving direction: R (The cover of drive chain is located on the right side of the conveying direction) L (The cover of drive chain is located on the left side of the conveying direction)

### Installation:

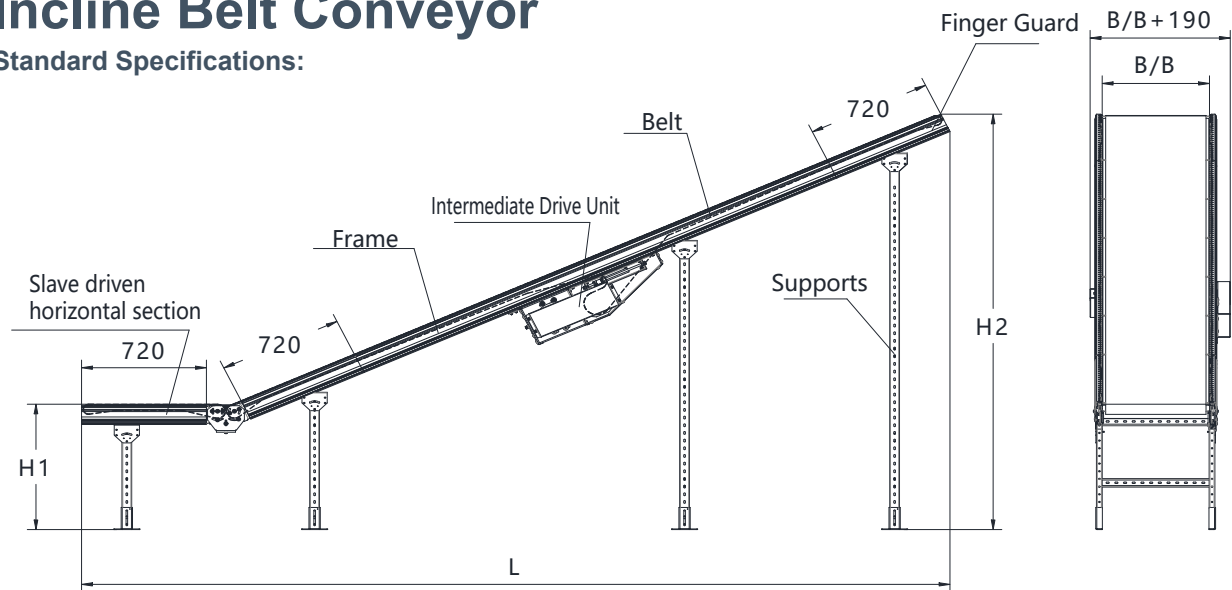
Floor mount: G5001 light duty double supports.
Ceiling mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Single direction only.
Bottom cover: The drive components are fitted with a 1.5mm thick bottom cover as standard. Optional covers can be supplied for all other sections when required.



# G5107A

## Center Drive Roller Bed Incline Belt Conveyor

Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.

L Length: Incline section 2520-15120mm long, in increments of 360mm.

The total length of conveyor is 3255-16050mm.

RP Roller pitch: 120、180、240

$\alpha$  Tilt angle: 2.5°~25°

H1 The installation height of the lower  
conveying part:  $\geq 400$

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are their silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# G5107B

## Center Drive Roller Bed Decline Belt Conveyor

The Center Drive Slider Bed Decline Belt Conveyor is used to transport goods to a different height. The conveyor uses a longitudinal groove belt supported by a roller bed and is fitted with a center drive unit.

It can transport light or heavy, regular and irregular shaped products and is an ideal solution for changing the conveying height.



### Product Performance:

Maximum load: $\leq 50\text{kg/m}$
Conveying speed: 30、40、50、60、70、80、90、100、120m/min
Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without Condensation)

### Belt:

Belt type: longitudinal groove on the incline section, flat belt on the lower section
Belt thickness: 3.1mm (the belt surface is 8mm higher than the top of frame)
Belt material: PVC, matte black

### Slider bed:

Slider bed type: Smooth surface
Thickness: 2mm
Material: Zinc-coated steel sheet

### Drive:

Drive type: AC gear motor(without brake)
Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)
Drive power: 0.37、0.55、0.75、1.1、1.5、2.2kW
Drive method: Synchronous belt
Control: Damon smart motor controller (optional)
Driving direction: R (The cover of drive chain is located on the right side of the conveying direction) L (The cover of drive chain is located on the left side of the conveying direction)

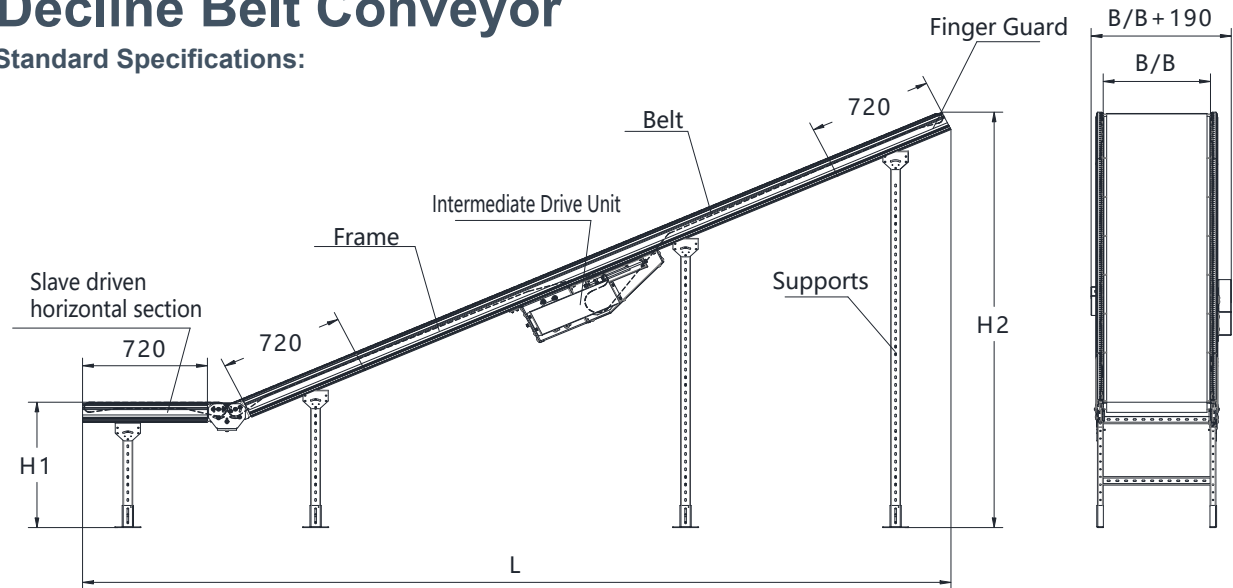
### Installation:

Floor mount: G5001 light duty double supports.
Floor mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Connector: G5-FL-04
Floor levels: The floor is level, error $< \pm 0.5^{\circ}$
Conveying direction: Single direction only
Bottom cover: The drive components are fitted with a 1.5mm thick bottom cover as standard. Optional covers can be supplied for all other sections when required.

# G5107B

## Center Drive Roller Bed Decline Belt Conveyor

Standard Specifications:



B/B Inner width of the frame: 417、517、617、717、817、917

Outer width of the frame: B/B+190

The width of guard rail: B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.

L Length: Incline section 2520-15120mm long, in increments of 360mm.

The total length of conveyor is 3255-16050mm.

RP Roller pitch: 120、180、240

$\alpha$  Tilt angle: 2.5°~25°

H1 The installation height of the lower  
conveying part:  $\geq 400$

PGR The height of guard rail: 65、80

★Unit:mm

### Color:

- The color of frame and supports is RAL7016 highlights
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

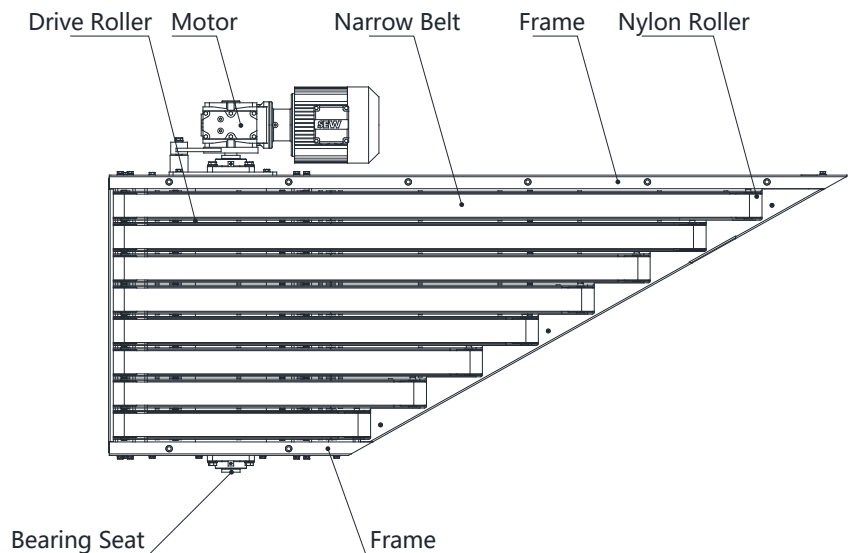
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# 1BC11

## Merge Belt Conveyor

The Merge Belt Conveyor is comprised of multiple standard narrow belt modules secured in the conveyor frame. All narrow belts are driven by a single roller. The narrow belts transport product to the main conveying line.

It is capable of transporting product of different shapes and sizes such as cartons, boxes and parcels.



### Product Performance:

Maximum load:  $\leq 50\text{kg/m}$

Conveying speed: 30, 40, 50, 60, 70, 80, 90, 100, 120m/min

The conveying speed is 1.4-1.5 times of that of main conveying line.

Ambient temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Ambient humidity:  $\leq 90\%$  (without Condensation)

### Installation:

Floor mount: G5001 light double supports

Ceiling mount: G5003 hanger (The height from roller surface to the ground should  $> 2125\text{mm}$ )

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

Conveying direction: Forward direction only.

### Belt:

Belt type: Flat narrow belt/ ribbed narrow belt

Belt thickness: 2.4mm (the belt surface is 8mm higher than the top of frame)

Belt material: PVC, matte black

### Drive:

Drive type: AC gear motor (without brake)

Rated voltage: AC380V/3Ph/50Hz (For other motor specifications, please contact Damon)

Drive power: 1.1kW

Drive method: Driven directly by the motor

Control: Damon smart motor controller (optional)

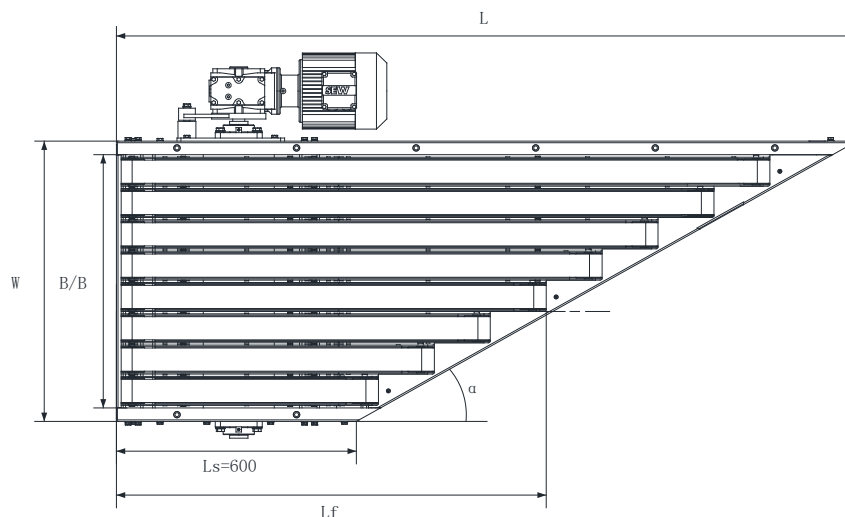
Driving direction: R (when merging to the right, the drive is on the right)

L (when merging to the left, the drive is on the left)

# 1BC11

## Merge Belt Conveyor

### Standard Specifications:



B/B Inner width of the frame: 574、655、736、817、979、1060

The length of short side: 600

LS: The center length: 1158.1、1228.2、1298.4、1368.6、1509、1578.6

The length of long side: 1716.1、1856.5、1996.9、2137.3、2418、2558.2

Outer width of the frame: B/B+70(Gear motor excluded)

The width of guard rail: B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.

α Merging angle: 30°

Merging direction: Left hand or right hand

The height of frame: 275

Installation height: ≥350

★Unit:mm

### Color:

- The color of frame and support is RAL7016 highlight
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016

### Scope of supply:

- PVC side plates are included but not assembled in the factory
- The module is completely assembled but not wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

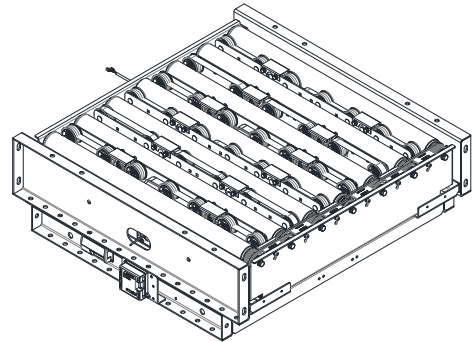
★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# 1TC05

## 24V DC Electric Roller Transfer

The 24V DC Electric Roller Transfer module is driven by three embedded electric rollers to control the lift, roller drive and belt drive. The roller conveyor mechanism and belt conveyor mechanism are interactively lifted to complete the right angle transfer function.

It is used to transfer goods at 90 degrees and change the conveying path.



### Standard specifications:

Max. load:  $\leq 30\text{kg/m}$

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Conveying Speed : 30-50m/min (Belt)

40-60m/min (Roller)

V1=17m/min (Pop-up)

Please see the Application Guide  
for detailed speed range.

---

Ambient temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

---

Ambient humidity:  $\leq 90\%$  (without condensation)

### Roller:

Roller type: Damon 2250 series, 2mm PVC Soft  
rubber sleeve (Fitted plug-in card)

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Roller diameter:  $\Phi 50.6$

---

Tube material: 1.5mm zinc plated tube

### Drive:

Drive type: Damon brushless electrical roller

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Rated Voltage: DC 24V

---

Drive power:  $0.04\text{kW} \times 3$

Control: 417、517 standar equipped with

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Damon EZQube-P smart card

617、717 standard equipped with  
EZQube-P $\times 2$ +EZ24-HTB

### Installation:

Floor mount: G5001 light duty double supports.

---

Ceiling mount: G5003 hanger (G5003 hanger The height from  
roller surface to the ground should  $> 2125\text{mm}$ )

---

Connector: G5-FL-01

---

Floor levels: The floor is level, error  $< \pm 0.5^{\circ}$

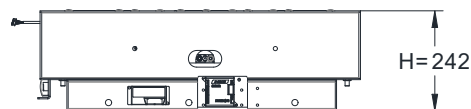
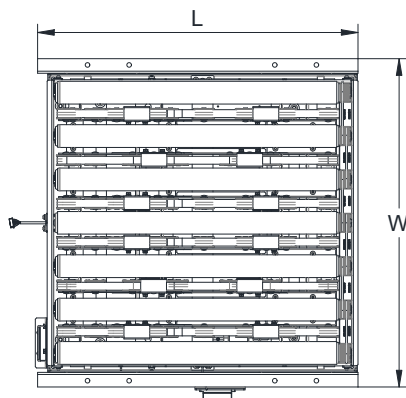
---

Conveying direction: Both the conveyor belts and transfer rollers can be  
operated in forward & reverse.

# 1TC05

## The electrical roller of transfer module

Standard specifications:



B/B Inner width of the frame: 417、517、617、717

Outer width of the frame:  $B/B+70$

The width of guard rail: B/B-5 is installed in the inner side;

B/B+7 is installed in the outer side.

L Module length: 717

RP Roller pitch: 104

H1 Installation height:  $\geq 250$

PGR The height of guard rail: 65、80

★Unit: mm

### Color:

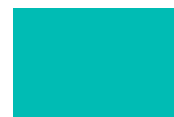
- The color of frame and support is RAL7016 highlight
- The color of PVC side plate is Pantone3262C
- The color of plastic guard rail is RAL7040
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.



RAL7016



RAL7040



Pantone3262C

### Scope of supply: (please pay attention)

- The module is completely assembled but not wired in the factory.
- Each transfer module is fitted with 2 proximity switches.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

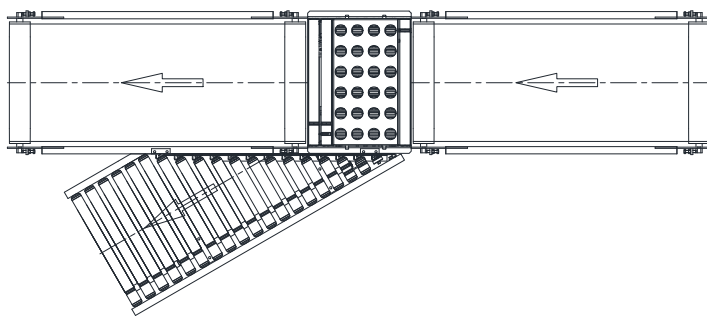
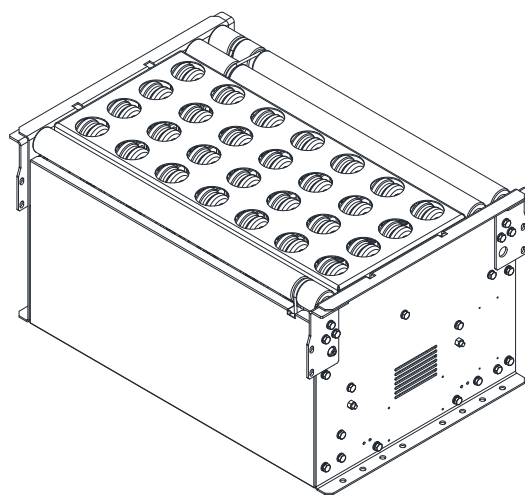
# 1ST03

## Swivel Wheel Sorter

The Swivel Wheel Sorter is fitted with two motors. One motor is used to drive the rollers and rotate the swivel wheels. The second servo motor is used to drive the connecting rod to change the direction of the swivel wheel to sort items.

The Swivel Wheel Sorter operates as an independent module. The Swivel Wheel Sorter can be installed at any position in the belt or roller conveyor.

It is suitable for diverting and sorting cartons, totes and boxes.



### Product performance:

Max. load: 0.5kg to 30kg
Conveying Speed: 36, 45, 55, 66, 78, 90, 100m/min
The conveying speed is 1.1-1.2 times of that of main conveying line.
Sorting efficiency: $\leq 5000$ pcs/h
Ambient temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$
Ambient humidity: $\leq 90\%$ (without condensation)

### Drive(Conveying):

Drive type: Gear motor
Rated Voltage(V): AC380V/3Ph/50Hz
Drive power(kw): 0.2kw
Control: PLC
Drive mode: Synchronous belt +O belt

### Installation:

Floor mount: G5001 light duty double supports
Ceiling mount: G5003 hanger (The height from roller surface to the ground should $> 2125\text{mm}$ )
Floor levels( $^{\circ}$ ): The floor is level, error $< \pm 0.5^{\circ}$

### Swivel wheel:

Wheel type: Swivel wheel
Wheel diameter (mm) : $\Phi 55\text{mm}$
Wheel material : PU rubber wheel

### Drive(Diverting):

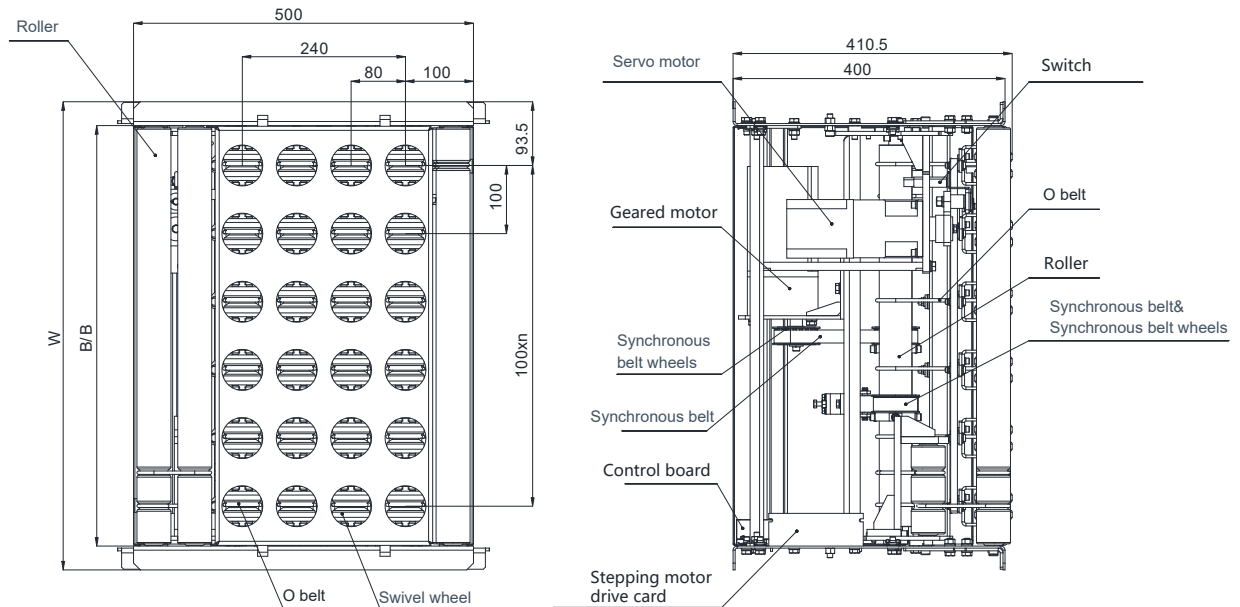
Drive type: Servo motor
Rated Voltage(V): DC 48V/AC 220V
Drive power(kw): L500 and L660 is single drive 0.4kw; L720 is double drive 0.4kw $\times 2$ ;
Control: Servo motor driver
Drive mode: Connecting rod



# 1ST03

## Swivel Wheel Sorter

### Standard specifications:



B/B Inner width of the frame (mm): 517、617、717、817

Outer width of the frame(mm): B/B+70

The width of guard rail(mm): B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.

Sorting angle(°): 30°、45°

Sorting direction: Single sided or double sided sorting

L Module length (mm) 500、660、720

P Swivel wheel pitch(mm): L80×W100mm

Installation height(mm): ≥500

PGR The height of guard rail (mm): 65、80(It's installed in the conveyor frame.)

★Unit: mm

### The items dimension(mm):

Width:	517	617	717	817
Min:	L250×W180×H30mm			
Max:	L700×W450×H350	L800×W550×H450	L900×W650×H550	L1000×W750×H650
L+W value:	≤1000	≤1200	≤1400	≤1600

★Unit: mm

### Color:

RAL7016

RAL7040

- The color of frame and support is RAL7016 highlight.
- The color of plastic guard rail is RAL7040.
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.
- For non-standard colors, please contact Damon sales.

### Scope of supply:(please pay attention)

- Stand alone module.
- The module is completely assembled and wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# 1ST09

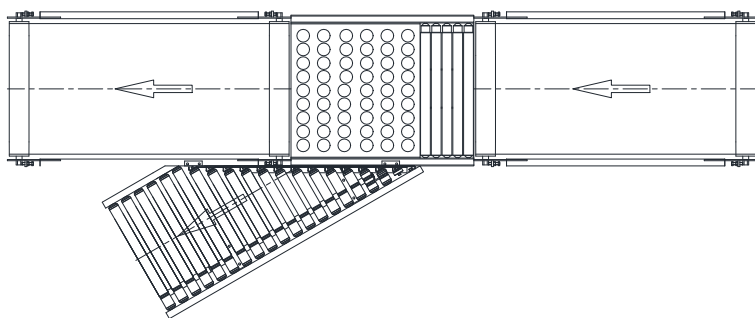
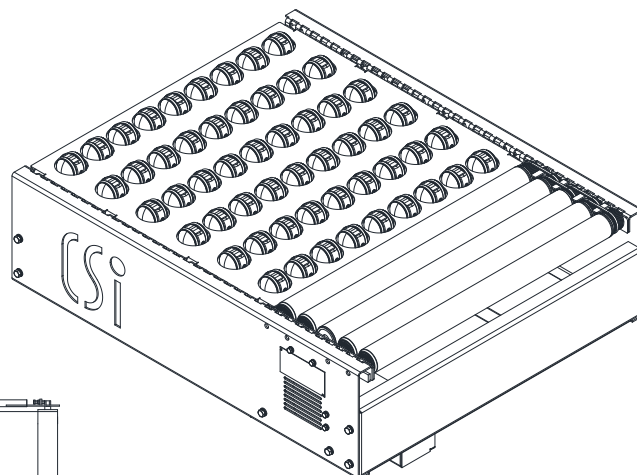
## PowerBall sorter

The PowerBall Sorter utilizes a specially constructed powerball. A synchronous belt drives beveled gears which in turn drives the powerball.

The PowerBall Sorter operates as an independent unit.

The PowerBall Sorter can sort single sided and double sided at multiple angles.

It is suitable for diverting and sorting cartons, totes, boxes, bags and other soft packages.



### Product performance:

Max. load: 0.5kg to 30kg
Conveying Speed: 36, 45, 55, 66, 78, 90, 100m/min
The conveying speed is 1.1-1.2 times of that of main conveying line.
Sorting efficiency: ≤5000pcs/h
Ambient temperature: 0°C~40°C
Ambient humidity: ≤90% (without condensation)

### Swivel wheel:

Wheel type: Powerball
Wheel diameter (mm) : Φ55mm
Wheel material : Plastic powerball

### Drive(Conveying):

Drive type: Gear motor
Rated Voltage(V): AC380V/3Ph/50Hz(For other motor specifications, please contact Damon)
Drive power(kW): 0.37(570),0.55(770),0.97(970)
Control: PLC
Drive mode: synchronous belt +O belt

### Drive(Diverting):

Drive type: Air cylinder
Rated Voltage(V): DC 24V(Magnetic valve)
Control: PLC
Drive mode: Connecting rod

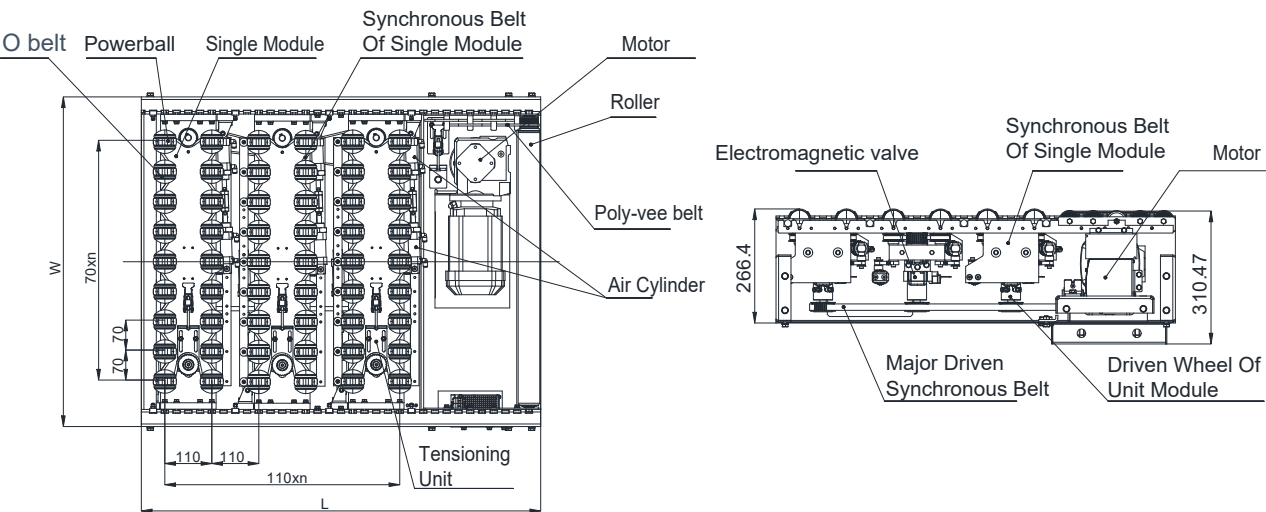
### Installation:

Floor mount: G5001 light duty double supports.
Ceiling mount: G5003 hanger (The height from roller surface to the ground should> 2125mm)
Floor levels(°): The floor is level, error < ±0.5°

# 1ST09

## PowerBall sorter

Standard specifications:



	Inner width of the frame (mm):	W-70
	Outer width of the frame(mm):	570, 770, 970(Are respectively to the G5 series model 517, 717 and 917.)
	The width of guard rail(mm):	B/B -5mm installed on the inner side; B/B +7mm installed on the outer side.
	Sorting angle(°):	30°, 45°
	Sorting direction:	Single sided or double sided sorting
L	Module length (mm)	720, 935, 1155
P	Swivel wheel pitch(mm):	L100×W70mm
	Installation height(mm):	350
PGR	The height of guard rail (mm):	65、 80(It's installed in the conveyor frame.)

★Unit: mm

The items dimension(mm):

Width:	570	770	970
Min:	L250×W150×H30mm		
Max:	L600×W400×H300	L800×W600×H500	L1000×W800×H700
L+W value:	≤1000	≤1400	≤1800

★Unit: mm

Color:



- The color of frame and support is RAL7016 highlight.
- The color of plastic guard rail is RAL7040.
- The zinc-coated parts are silver zinc; The aluminium alloy parts are aluminum anodized.
- For non-standard colors, please contact Damon sales.

Scope of supply:(please pay attention)

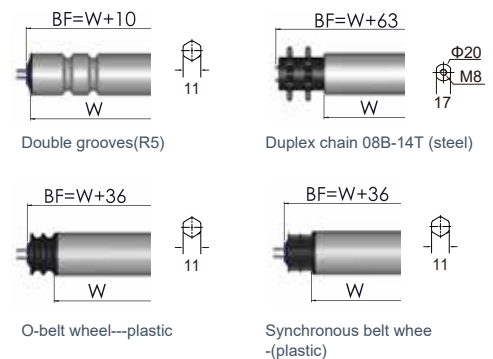
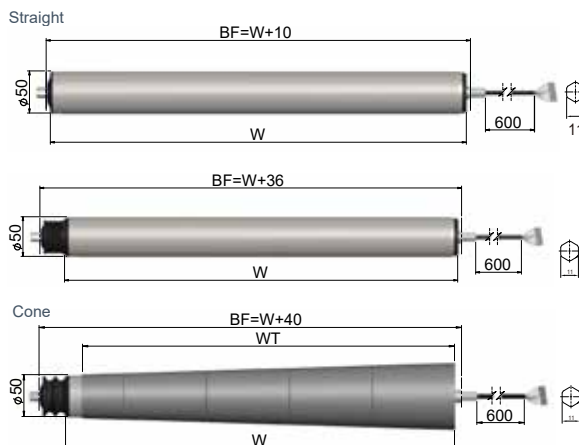
- Stand alone module.
- The module is completely assembled and wired in the factory.
- Supports/hangers, guard rails and end stops are optional.

★The combination of parameters is not always available. Please contact Damon technicians if any questions!

# Key components

## 24V DC Electric Rollers

- High torque. A single zone can drive up to 500kg of product.
- Low energy consumption. New technology has led to a reduction in energy consumption of more than 10%.
- Wide speed range. The speed of a 50mm diameter roller can be varied from 2 – 300m/min.
- Easy to control. Various drive cards available to meet integration require-



## Specifications

The minimum length W(mm), Diameter  $\Phi 50$

Speed code	Drive mode													
	No drive(Straight)				Poly-Vee Belt				Duplex chain (08B14T)		Double grooves			
	Spring Loaded		Female thread		Spring Loaded		Female thread		Female thread		(5030)		(3530)	
	W	BF	W	BF	W	BF	W	BF	W	BF	W	BF	W	BF
15,20,25	340	350	300	310	335	371	310	346	270	333	345	355	330	340
35,45,60,75	310	320	275	285	310	346	285	321	245	308	320	330	305	315
99,129,179,219	294	304	254	264	289	325	264	300	224	287	299	309	284	294

The maximum roller length is 1000mm (please contact us when exceeding 1000mm).

## Specifications

Diameter:  $\Phi 50$ mm

Speed code	Gearbox	ECO mode						BOOST mode					
		Speed (m/min)	Torque(N·m)		Tangential force (N)		Speed (m/min)	Torque(N·m)		Tangential force (N)		Rated	Starting
			Rated	Starting	Rated	Starting		Rated	Starting	Rated	Starting		
15	Level 3	2.0- 20.3	2.97	16.39	118.80	655.70	2.0- 14.7	5.40	21.37	216.00	855.00		
20		2.7- 27.7	2.17	12.00	86.90	480.00	2.7- 20.0	3.95	15.64	158.10	625.80		
25		3.4- 33.8	1.78	9.83	71.20	393.40	3.4- 24.4	3.24	12.82	129.60	513.00		
35	Level 2	4.9- 49.9	1.20	6.66	48.30	266.60	4.9- 36.1	2.19	8.69	87.80	347.70		
45		6.0- 60.8	0.99	5.46	39.60	218.50	6.0- 44.0	1.80	7.12	72.00	285.00		
60		8.2- 83.1	0.72	4.00	28.90	160.00	8.2- 60.1	1.31	5.21	52.70	208.60		
75		10.1- 101.4	0.59	3.27	23.70	131.10	10.1- 73.3	1.08	4.27	43.20	171.00		
95	Level 1	13.3- 133.8	0.44	2.48	17.90	99.30	13.3- 96.8	0.81	3.23	32.70	129.50		
125		18.1- 182.5	0.33	1.82	13.20	72.80	18.1- 131.9	0.60	2.37	24.00	95.00		
175		24.7- 249.3	0.24	1.33	9.60	53.30	24.7- 180.3	0.43	1.73	17.50	69.50		
215		30.2- 304.1	0.19	1.09	7.90	43.70	30.2- 219.9	0.36	1.42	14.40	57.00		

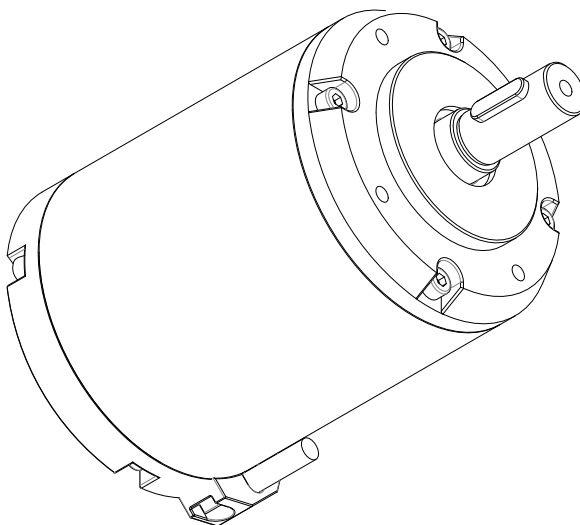
- Under the mode of ECO, the rated current is 2.5A and the starting current is 3.0A.  
 - Under the mode of BOOST, the rated current is 3.5A and the starting current is 5.0A

# Key components

## 24V DC Brushless Motor

### Features:

- The three phase, DC brushless permanent magnet motor offers high efficiency and high reliability.
- High efficient rare earth permanent magnet material provides high starting torque and a wide range of speeds.
- No lubrication required. Maintenance free with a long service life.
- No wear and no noise for the drive gear.
- Very low noise level:  $\leq 50\text{dB}$



### specifications

Motor model	Voltage (V)	Power (W)	No-load current(A)	No Load revolving speed(rpm)	Rated current (A)	Rated revolving speed(rpm)	Rated torque (Nm)	Service life (h)
D80BL2460	24	60	0.37	850	3.7	700	0.9	15000
D80BL2430	24	35	0.27	450	2.0	380	0.9	15000

**\*Note:** - The combination of parameters is not always available.  
- If the item is not specified, it will be highlighted as the default choice.  
- For more specifications and configuration information, please contact the DAMON customer representative.

# Key components

## 24V DC Electric Rollers

### Example of product model

**DPR - A D - 5 0 - 5 0 0 - 4 5 A S G A**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Basic Model

② Basic type: A-standard; T-cone

③ Power type: DC24V

④ Roller Diameter: Φ50mm

⑤ Length of roller surface: refer to the size chart of electric roller (W)

⑥ Speed code: there are 11 speed codes, such as 15, 20, 25, etc.

Please refer to performance parameter list for details

⑦ The form of outer tube:

A Steel, zinc-plated	X 5mm Natural rubber (black)
J Stainless steel tube	N 5mm PU (black)
H Steel, hard chromium plating	K 5mm Nitrile-Butadiene Rubber (black)
Q 2mm PVC sleeve (grey)	

⑧ Motor type: SENERGY

⑨ Driver connection:

A No drive(Straight)	D Duplex chain(08B14T)	G Double grooves(R5)
H Plastic poly-vee wheel(PJ)	F O-belt wheel(plastic)	I Synchronous belt wheel(plastic)

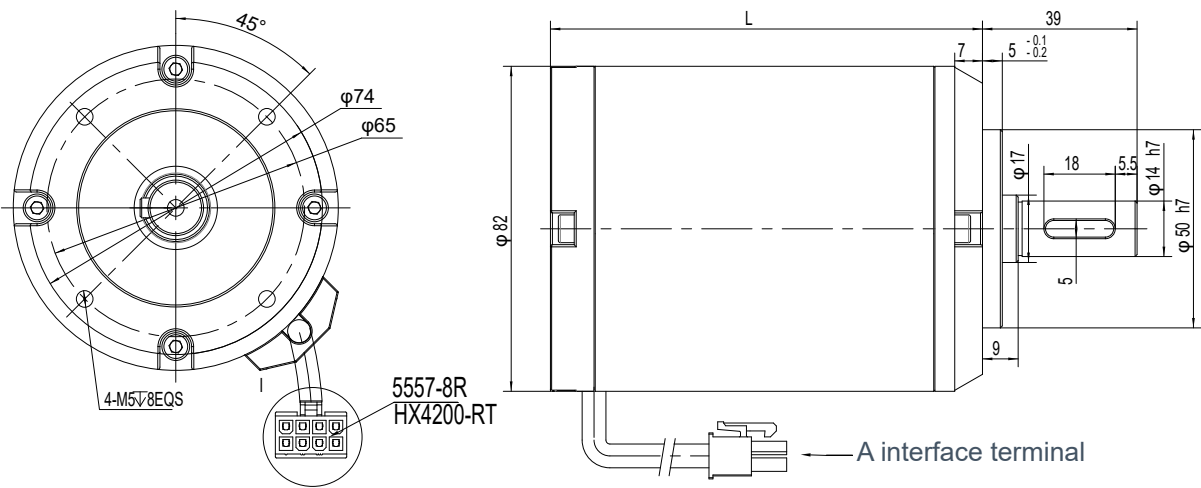
⑩ Installation:

11hex The cable is outside the shaft	M12 male thread motor shaft out*
A Spring Loaded (11 hex shaft)	P Male thread motor shaft out +Spring loaded in non-motor end
F Female thread(M8)	T Male thread motor shaft out +Female thread in the non-motor end

# Key components

## 24V DC Brushless Motor

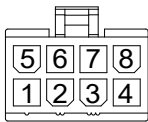
### The motor dimension



Motor model:	D80BL2460	D80BL2430
L Size(mm):	94	109

### The power and signal interface

A interface terminal picture



Terminals:	1	2	3	4	5	6	7	8
phase sequence:	Hw	Hv	Hu	+Vcc	W	V	U	GND

**\*Note:** - The combination of parameters is not always available.  
 - If the item is not specified, it will be highlighted as the default choice.  
 - For more specifications and configuration information, please contact the DAMON customer representative.

# Key components

## EZQube Driver Card

### Features

- Two operation modes: ECO and BOOST
- LED Error indication
- 31 speed settings
- 0 ~ 10V Analog voltage continuously variable
- Forward and reverse rotation
- 3 stage speed selection via signal inputs
- Brake mode selection: standard brake, no brake, servo brake
- PI Speed feedback (stable speed control)
- 16 stage acceleration/deceleration time settings
- PNP/NPN Signal input / output

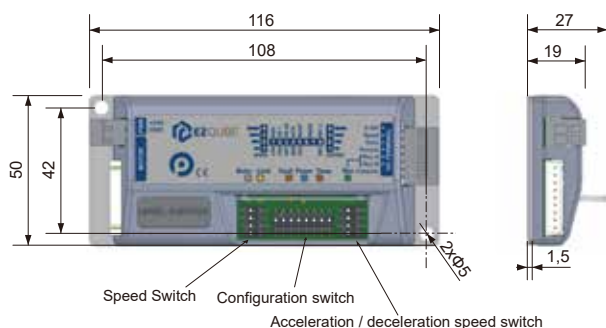
### Technical Data

Voltage	DC24V±5%
Rated current	2.5A (ECO), 3.5A (BOOST)
Starting current	3.0A (ECO), 5.0A (BOOST)

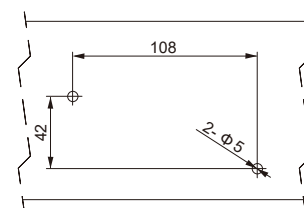
### Application Environment

Operating temperature	-10 ~ 40°C
Operating humidity	10~70%RH (No condensation)
Vibration	2G or even lower

### Dimension



The hole size of frame  
(Bolt fixing)



**\*Note:** - The combination of parameters is not always available.  
 - If the item is not specified, it will be highlighted as the default choice.  
 - For more specifications and configuration information, please contact the DAMON customer representative.



# Key components

## EZQube Driver Card

### DIP Switch Setting

Speed Switch	Function	OFF	ON
1	Speed setting	It can cooperate with speed switch to realize 31 fixed speed settings	
2			
3			
4			
Acceleration/ deceleration speed switch	Function	OFF	ON
1	Acceleration / deceleration time settings	16 fixed acceleration /deceleration time settings	
2			
3			
4			
Configuration switch	Function	OFF	ON
1	Speed range	lower gear	High gear
2	Running direction setting	CCW(Counterclockwise)	CW(Clockwise)
3	PI	Turn off	Turn on
4	Error recovery mode	Manual	Automatic
5	Operation mode	ECO	BOOST
6	Brake mode selection	3 brake mode selection	
7			
8			
	Deceleration time	Deceleration time =acceleration time	Deceleration time =2×acceleration time

### Wiring



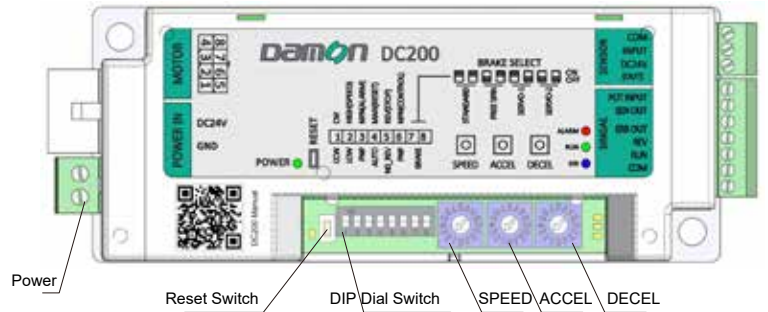
**\*Note:** - The combination of parameters is not always available.  
 - If the item is not specified, it will be highlighted as the default choice.  
 - For more specifications and configuration information, please contact the DAMON customer representative.

# Key components

## DC200 Driver Card

### Features

- 31 speed settings
- 16 Level of acceleration / deceleration setting
- 0-10VDC Voltage continuously variable
- Default setting of forward and reverse rotation and PLC Control
- LED instructions: forward and reverse rotation, running and alarm.
- PNP/NPN control and alarm output
- Overvoltage, under voltage and over-current detection
- Brake mode selection: standard brake, no brake, servo brake 1 and servo brake 2
- Reverse rotation after overshoot braking
- Abnormal manual / automatic recovery operation



Note: Equipment abnormality or SW4 is ON, it alarms and needs manual reset.

### Technical Data

Voltage	DC24V±10%
Rated current	≤3.5A
Peak current	≤5A

### Application environment

Storage Temperature	-10 ~ 70°C
Operating temperature	-10~40°C
Operating humidity	10%-90%RH(No condensation)
Vibration	2G or even lower

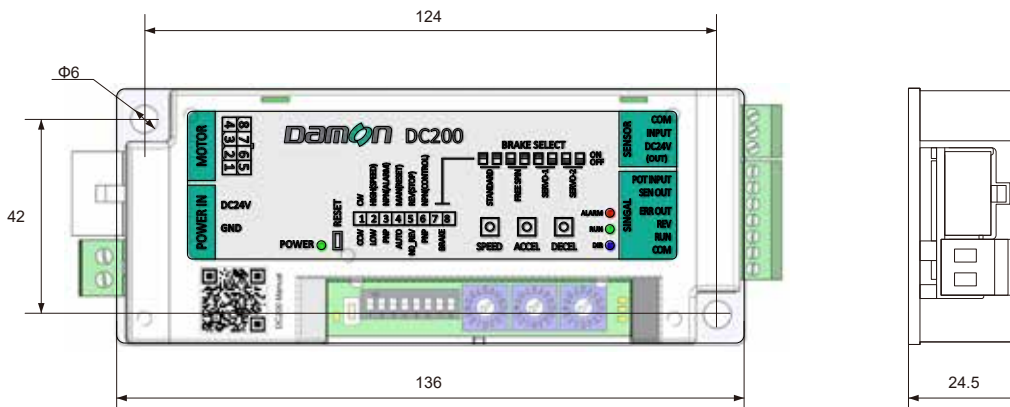
### DIP Dial Switch Settings

Function	OFF	ON
Forward and reverse	CCW reverse rotation	CW forward rotation
Rotation setting		
Speed setting	LOW Low gear	HIGH High gear
Alarm output setting	PNP	NPN
Error recovery	Auto reset	MAN Manual reset
Stop Mode	NO_REV Stop and no reverse	REV stop and reverse
Signal input control mode	PNP	NPN
Brake mode selection	SW7&SW8: Brake mode selection: standard brake, no brake, servo brake 1 and servo brake 2.	

### Rotary switches setting

	Function	Set range	Remarks
SPEED	Speed setting	0-F	Used with DIP SW2
ACCEL	Acceleration time setting	0-F	0-2.5S
DECEL	Deceleration time setting	0-F	0-2.5S

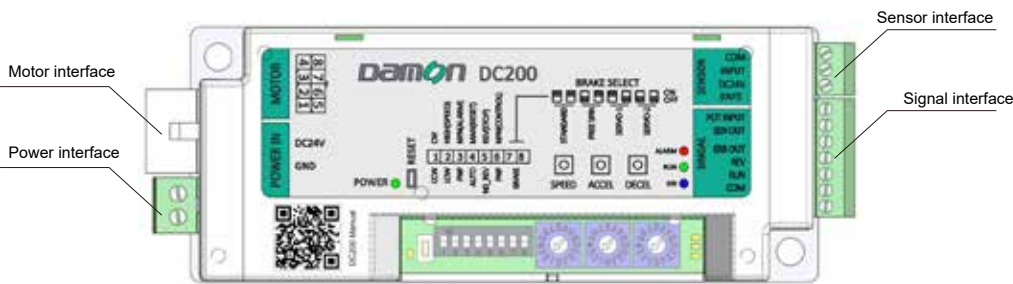
### Dimension



# Key components

## DC200 Driver Card

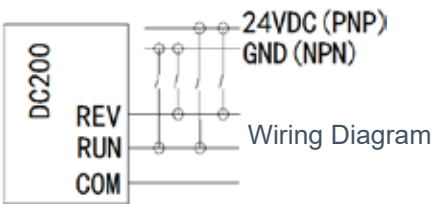
### Wiring



### Motor Wiring

Pin number	1	2	3	4	5	6	7	8
Phase order	HW	HV	HU	+5V	W	V	U	GND

### Control Signal Wiring Diagram



### Sensor Interface Definition

DC24V(OUT)	Output	Provide Sensor power supply
INPUT	Signal input	Sensor input signal interface
COM	Common terminal	Sensors power supply

### Signal Interface Definition

COM	Common terminal	
RUN	Run	Matching with dial switch SW6
REV	Reverse	Automatic recognition of PNP and NPN
ERR OUT	Error output	Only PNP signal output is supported
Reserved		
SEN OUT	Sensor output	It outputs when the sensor is effective
POT INPUT	Analog input	0-10VDC speed regulation

**\*Note:** - The combination of parameters is not always available.  
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- For more specifications and configuration information, please contact the DAMON customer representative.

# Conveyor components

## PGR65/80 Guard Rail

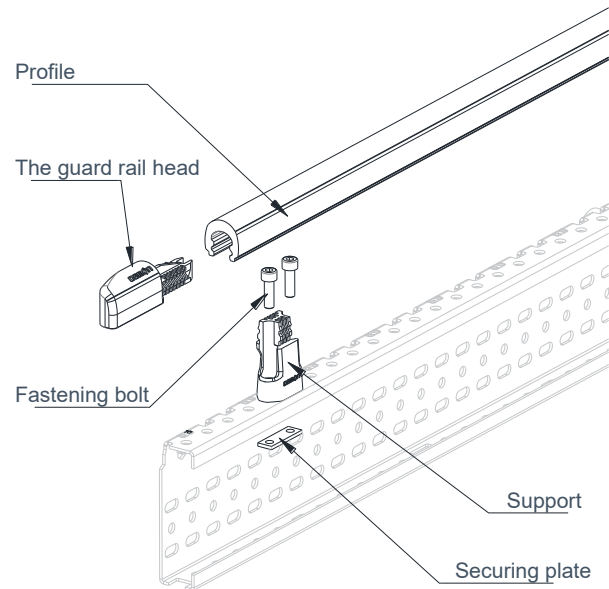
Support: Material PA6, color RAL7040, weight model PZ45 0.03kg/pcs, model PZ30 0.04kg/pcs.

Securing plate: Material 3mm Zinc-coated Steel, weight 0.013kg/pcs.

Fastening bolt: Model PZ45 and PZ30 are respectively secured by galvanized socket head cap screws M8×25 and M8×16. Weight 0.017kg/pcs and 0.0135kg/pcs.

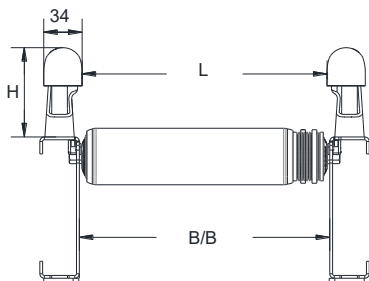
Profile: Material HDPE, color RAL7040, maximum length of single profile 6000mm, weight 0.54kg/m

The guard rail head: Material PA6, color RAL7040, bilateral symmetry, weight 0.05kg/pcs.

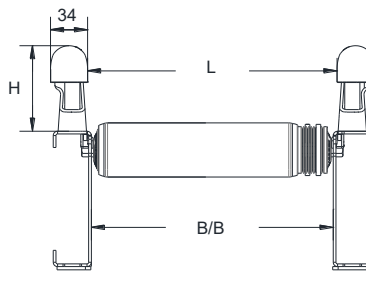


### PGR65/85 Size

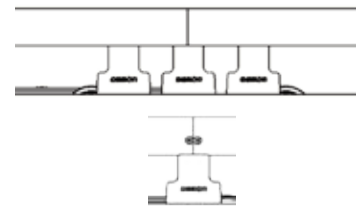
Model	H	The matched supports	Weight/m
PGR80	80mm	PZ45	1.45kg
PGR65	65mm	PZ30	1.39kg



The supports are installed in the inner side  
( $L=B/B-5$ ) (in the straight)



The supports are installed in the outer side  
( $L=B/B+7$ ) (in the curve)

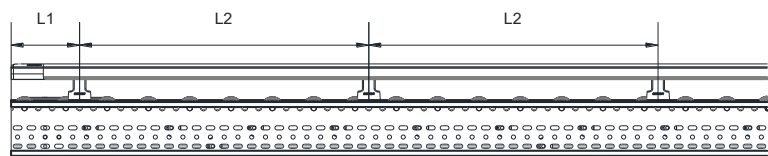


The connection of guard rail:  
In the guard rail shall be connected with 3 supports, and secured by self-tapping screws.

The distance between the supports of the guard rail in the straight

L1: 150 ~ 180mm

L2: 630 ~ 720mm (If the supports are Installed in areas that are hit often such as transfer exits, merge conveyors, sorter exits, L2 can be reduced to 360mm.)



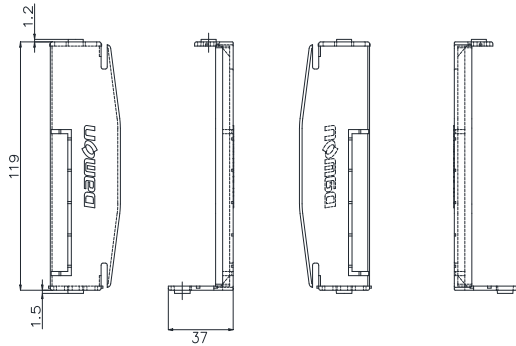
Distance between guard rail supports in a curve.

Curve angle	The quantity of the supports on the inside	The quantity of the supports on the outside
90°	4pcs	4pcs
60°	3pcs	3pcs
45°	3pcs	3pcs
30°	2pcs	2pcs

**\*Note:** - The combination of parameters is not always available.  
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# Conveyor components

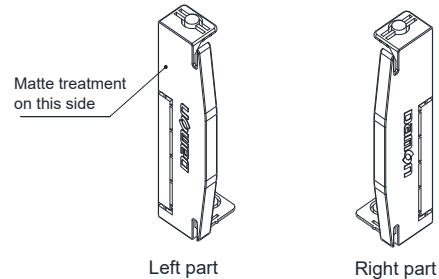
## Frame End Cover



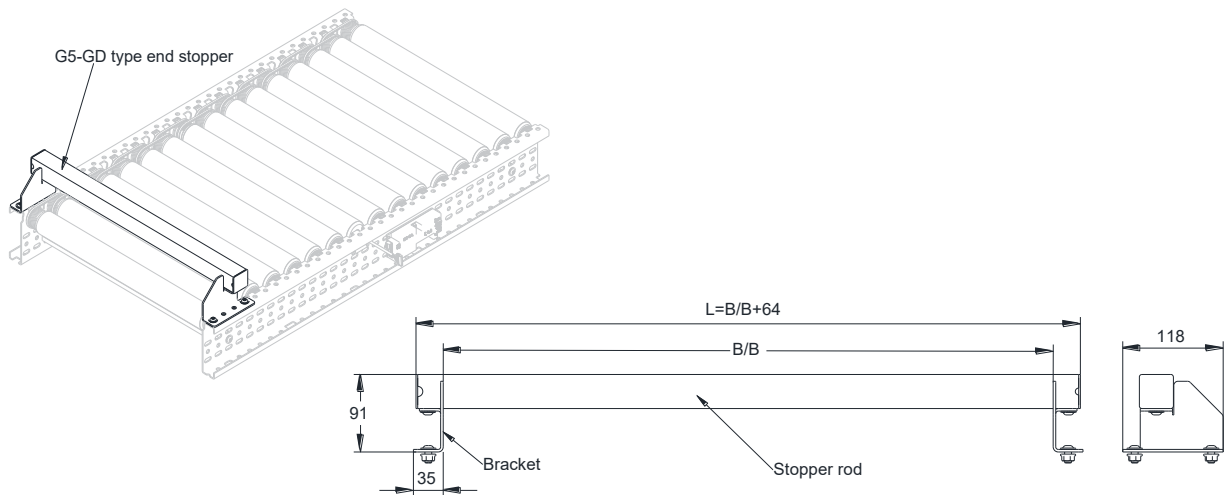
Model:G5-FRE-L-01(Left)

G5-FRE-R-01(Right)

Use for:Installation of G5 frame end cover



## G5-GD End Stop



### Specifications:

Bracket: Made of carbon steel plate (thickness: 3mm); 118×83×35mm; Sprayed surface; Connect with the frame by bolt(DM-M8×16) and hexagon nut.

Stopper rod: 40×40×2mm(4mm for square rod); Welded carbon steel plate; Sprayed surface.  
417,517,617,717,817,917mm

Size: B/B reference to "table 1"

Installation: Bolted to the conveyor frame.

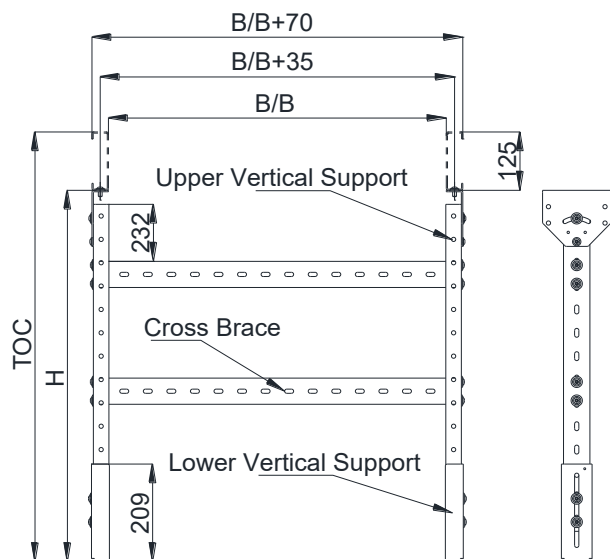
Table 1: Size

B/B(mm)	L(mm)	Weight(Kg)
417	481	1.67
517	581	1.90
617	681	2.13
717	781	2.36
817	881	2.59
917	981	2.82

**\*Note:** - The combination of parameters is not always available.  
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- For more specifications and configuration information, please contact the DAMON customer representative.

# Conveyor components

## G5001 Single Layer Double Support



### Specifications:

Upper vertical support: 56x33x2.5mm Carbon steel profile

Lower vertical support: 65x38x4mm Carbon steel profile

Cross brace: 56x33x2.5mm Carbon steel profile

B/B: 417,517,617,717,817,917mm

Height adjustment: See Sheet 1

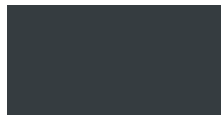
Support connecting

plate adjustment: 30° on left and right side

One set of double

support loads: 1000 kg

Surface treatment: Spray, RAL7016(highlight)



RAL7016

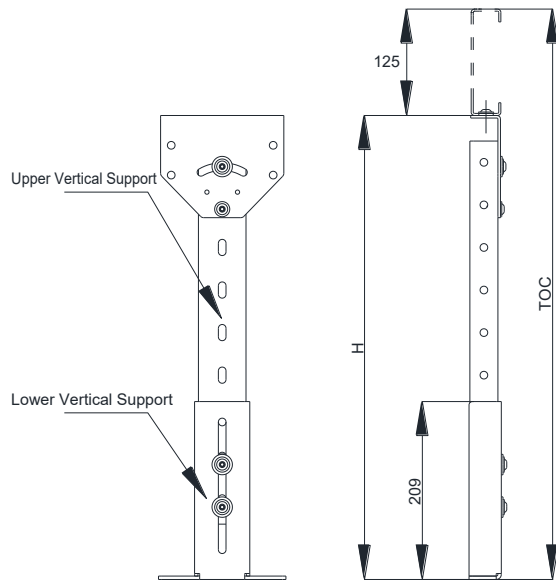
Sheet 1: Height adjustment

	H(mm)	TOC(mm)
1	345-445	500
	395-495	550
	445-545	600
	495-595	650
	545-645	700
	595-695	750
	645-745	800
2	695-795	850
	745-845	900
	795-895	950
	845-945	1000
	895-995	1050
	945-1045	1100
	995-1095	1150
	1045-1145	1200
	1095-1195	1250
	1145-1245	1300
3	1195-1295	1350
	1245-1345	1400
	1295-1395	1450
	1345-1445	1500
	1395-1495	1550
	1445-1545	1600
	1495-1595	1650
	1545-1645	1700
	1595-1695	1750
	1645-1745	1800
	1695-1795	1850
4	1745-1845	1900
	1795-1895	1950
	1845-1945	2000
	1895-1995	2050

**\*Note:** - The combination of parameters is not always available.  
 - If the item is not specified, it will be highlighted as the default choice.  
 - For more specifications and configuration information, please contact the DAMON customer representative.

# Conveyor components

## G5002 Single Support



Specification parameter:

Upper vertical support: 56x33x2.5mm Carbon steel profile

Lower vertical support: 65x38x4mm Carbon steel profile

Height adjustment: See sheet 2

Support connecting

plate adjustment: 30° on left and right side

Surface treatment: Spray, RAL7016(highlight)



RAL7016

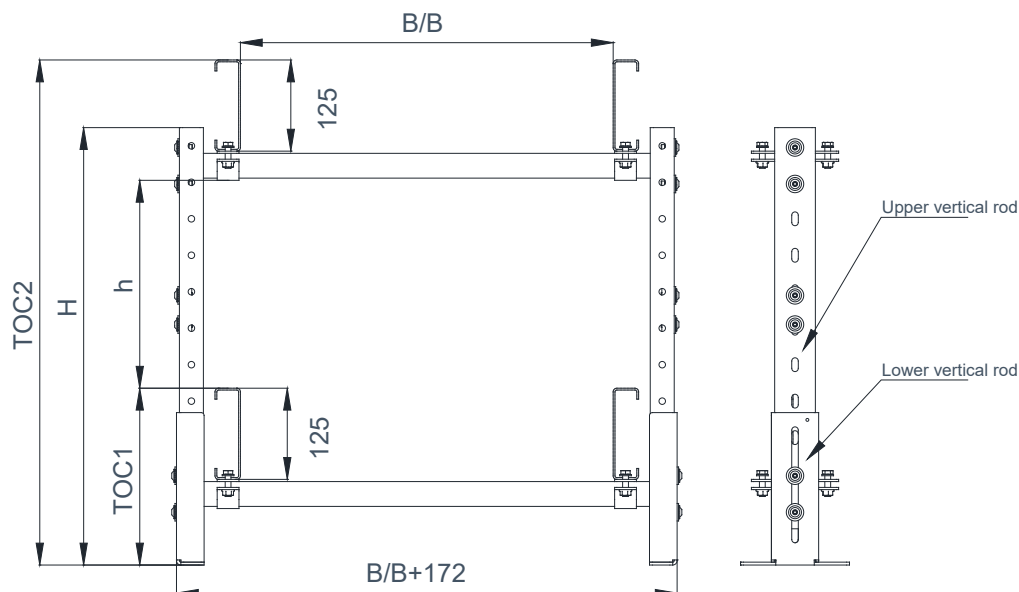
Sheet 2: Height adjustment

H(mm)	TOC(mm)
345-395	500
395-495	550
445-545	600
495-595	650
545-645	700
595-695	750
645-745	800
695-795	850
745-845	900
795-895	950
845-945	1000
895-995	1050
945-1045	1100
995-1095	1150
1045-1145	1200
1095-1195	1250
1145-1245	1300
1195-1295	1350
1245-1345	1400
1295-1395	1450
1345-1445	1500
1395-1495	1550
1445-1545	1600
1495-1595	1650
1545-1645	1700
1595-1695	1750
1645-1745	1800
1695-1795	1850
1745-1845	1900
1795-1895	1950
1845-1945	2000
1895-1995	2050

**\*Note:** - The combination of parameters is not always available.  
 - If the item is not specified, it will be highlighted as the default choice.  
 - For more specifications and configuration information, please contact the DAMON customer representative.

# Conveyor components

## G5006 Double Support



Specification parameter:

Upper vertical support: 56x33x2.5mm Carbon steel profile

Lower vertical support: 65x38x4mm Carbon steel profile

The lowest height

TOC1: 245mm, upper by step of 50mm

The lowest height

TOC2: Lower by step of 50mm

Height adjustment: See sheet 3

Support connecting

plate adjustment: 30° on left and right side

Surface treatment: Spray, RAL7016(highlight)

Sheet 3: Height adjustment

H(mm)	TOC2 (mm)	h(mm)
560-660	690	275
810-910	940	525
1060-1160	1190	775
1310-1410	1440	1025
1560-1660	1690	1275
1810-1910	1940	1525



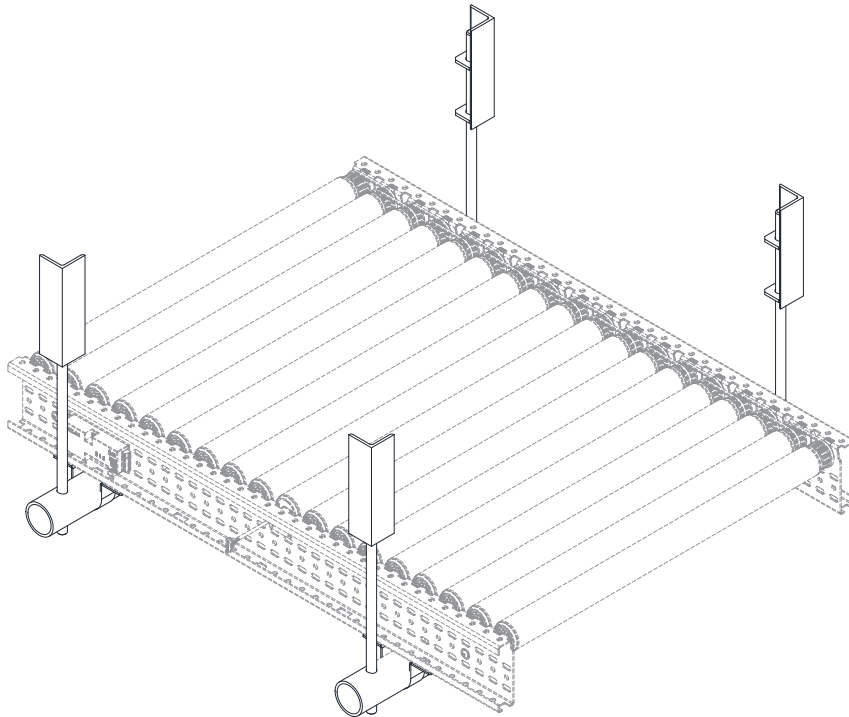
RAL7016

**\*Note:** - The combination of parameters is not always available.  
 - If the item is not specified, it will be highlighted as the default choice.  
 - For more specifications and configuration information, please contact the DAMON customer representative.



# Conveyor components

## G5003 Hanger



### Specifications

Conveyor support: Round seamless tube  $\Phi 35 \times 2/20$

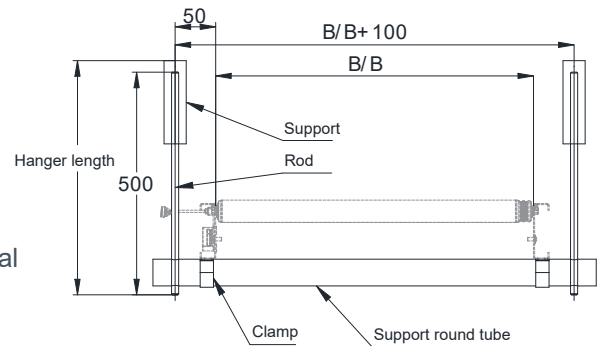
Threaded rod: M16

Length of threaded rod: 500mm

Support: 50×50×5mm Hot rolled equilateral Angle

Width B/B: 417,517,617,717,817,917mm

Clamp: The 3mm cold rolled galvanized sheet is bent into an arch shape for the fixation of conveyor and supporting round tube.



RAL7016

**\*Note:** - The combination of parameters is not always available.  
 - If the item is not specified, it will be highlighted as the default choice.  
 - For more specifications and configuration information, please contact the DAMON customer representative.

# System components

## DSmart™ 100

### Introduction

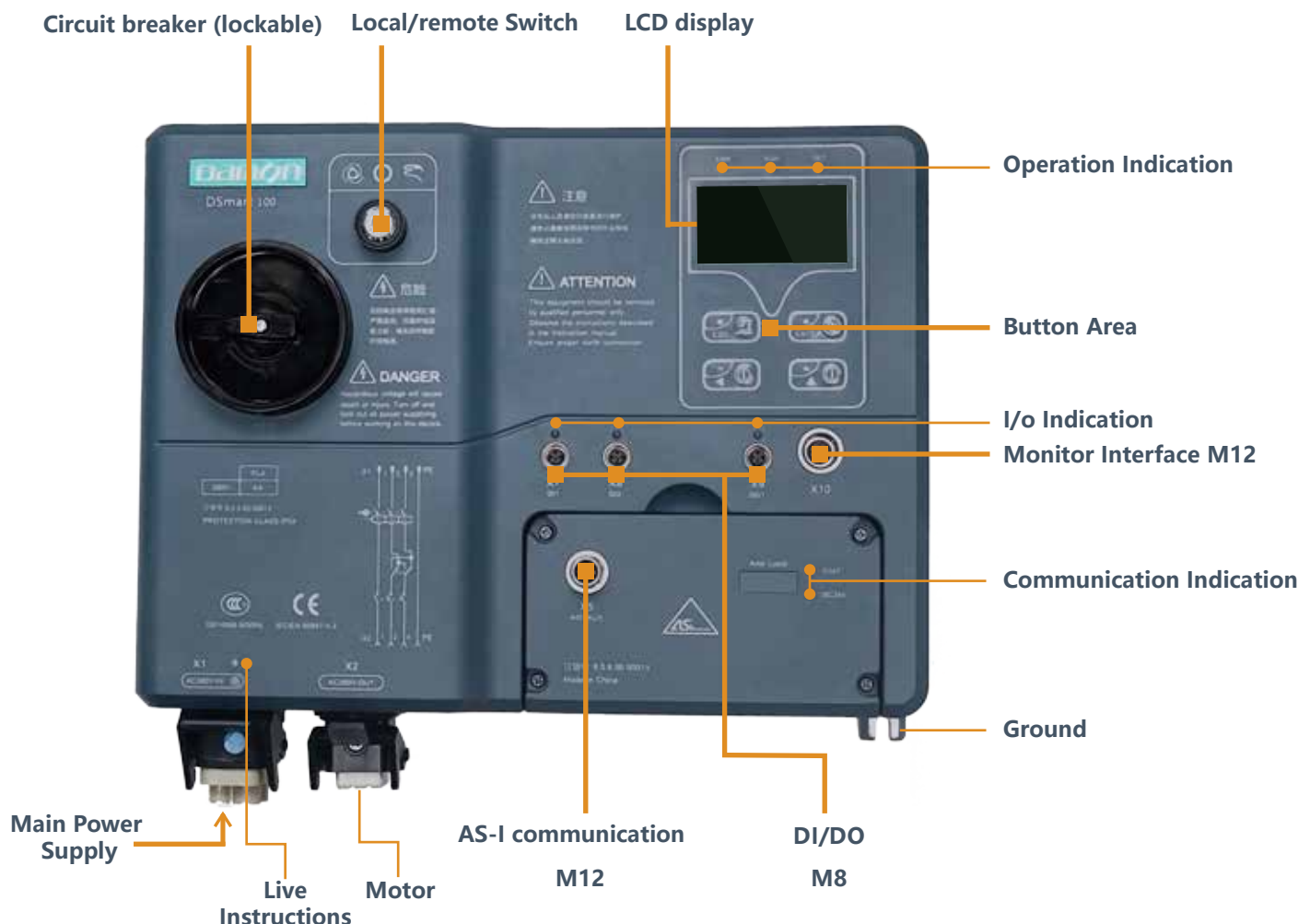
The DSmart™ 100 is a smart motor starter specially designed for use in the logistics industry. It can be used to control and protect motors up to 5.5kW. The DSmart™ 100 adopts distributed drive solutions and is simple to install and easy to use. It is rated to IP54 degree of protection and is certified to CCC and CE. It is ideally suited for logistic systems for tobacco, books, apparel, e-commerce, pharmaceutical and other industries



### Main Character

- Plug and play technology makes connection and disconnection of the main loop cable, communication cable and IO cable easier.
- The high IP54 degree of protection is ideal for site installation.
- To protect the motor, the built in instrument transformer measures the motors operational values and triggers the alarm signal when the pre-set values are exceeded.
- All motor functions can be easily set through the local control panel.
- The wide voltage range covers a variety of power supplies to effectively reduce the number of spare parts.
- All specifications have the same dimensions for easy storage and installation.
- The optional hand operator provides convenient auxiliary functions for commissioning such as start / stop and effectively control the motor speed.

### Port definitions



# System components

## DSmart™ 100

### Basic Data

Project		Specifications
Main power input	Rated voltage	380V/415V(optional);Three-phase power supply (range of fluctuation: -10%--+10%)
	Input frequency	50/60Hz
	Allowable voltage fluctuation	Voltage unbalance <3%
Control power input	Voltage range	20.4 ... 28.8 VDC
	Power consumption	<250mA (DO power consumption is calculated separately)
Environmental conditions	Storage temperature	-40℃...+70℃
	Working temperature	-10℃...+50℃
	Temperature derating	> 40 ℃,every increase 1 ℃,rated output current is reduced by 2%,the highest 55 ℃
	Allowable mounting position	Vertical,Lateral
	Relative humidity	10% to 90%; No condensation
	Vibration resistance	2g ( IEC 60068,Part 2-6 )
	Altitude	1000m
	Altitude derating	>1000m,℃,every increase 100m,the product capacity is 2% lower (the max. altitude is 2000m).
	Cooling method	Natural cooling
DI/DO	DI	2 channels,NPN/PNP adaptive,external 24V power supply,input function can be defined
	DO	1 channel, output 24V, 500mA, function can be defined
Motor protection	Overcurrent protection, Locked-rotor protection, Short circuit protection,Phase imbalance protection	
Communication function	AS-I	GB/T18858.2-2012/IEC52026-2; 2008;
	Profibus-DP	IEC1158-2

### Indicator specifications

LED indicators are provided on the DSmart™ 100 to provide the current operational status of equipment at a quick glance.

LED	Application	Explanation
<b>Red:</b> Warning/Reminder	Live instructions	Main power supply is energized. Please be careful!
	ERR	Equipment failure
<b>Yellow:</b> Signal, Operating state, Communication state	STAT	Flashing: communication is normal
	24V	The power supply is normal
	I/O	State of DI/DO (X7, X8, X9)
	RUN	The device is running
	SET	The device can view and parameters can be change
	Attached indicator	Basic indicator of equipment operation (forward turn,reverse turn,quick stop,point move)

### Live indicator



●● Indicating LED indicator

# System components

## DSmart™ 100

### Product advantages

1. Various bus modules can be replaced at will



2. Friendly man-machine interface



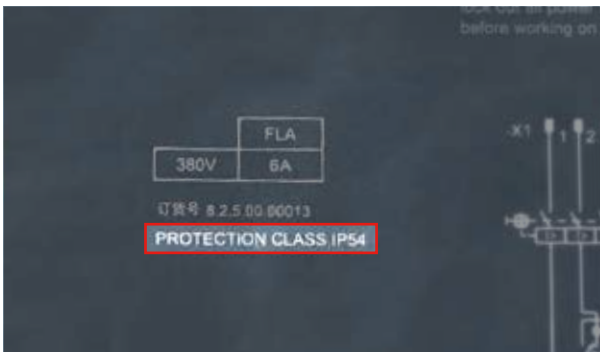
3. Quick plug-in



4. Status indication



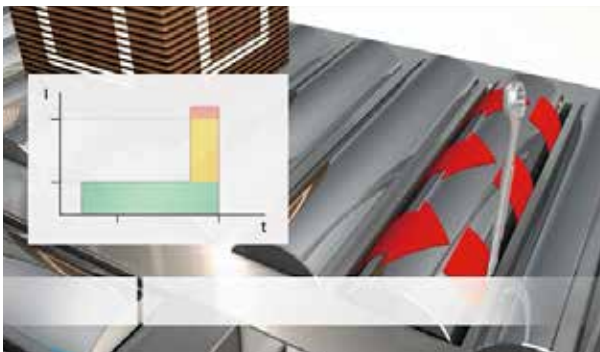
5. High degree of protection (IP54)



6. Compliance with national and international standards





7. Powerful diagnostic protection system



8. Only components from well known international suppliers are used.



## Compare the information

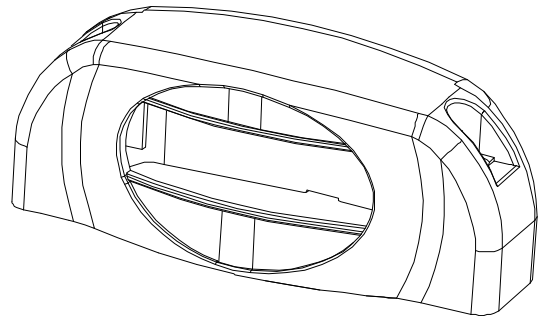
		Traditional way	DSmart™100
Figure example			
Basic features	Plug and play technology	○	√
	The main circuit breaker	○	√
	Safety select key switch	X	√
	EMC electromagnetic compatibility	X	√
	Parameter storage (EEPROM)	X	√
	Integrated maintenance position lock device can hang up to 3 locks (for multi-level maintenance)	○	√
	Protection class IP54	X	√
	Integrated load monitoring functions	X	√
	LED large-screen multi-language display	X	√
	NPN/PNP sensor interface adaptive	X	√
	CCC and CE certification	X	√
Basic functions	Reversible starting	○	√
	Integrated short circuit and overload protection (parameterized inverse timing protection of motor overload)	X	√
	Strong Current alarm function	○	√
Advanced Function	System self-detection	X	√
	Output missing phase detection	X	√
	Output phase imbalance	X	√
	Locked-rotor test	X	√
	Block detection	X	√
	Communication fault detection	X	√
	Output short circuit detection	X	√
	Low current detection	X	√
Optional items	Input voltage: 380VAC/415VAC(optional)	○	○
	Communication: AS-I/Profibus-DP /ProfiNet	○	○
	Motor current: 0~6A/5~12A	○	○
	Braking mode: NO / YES <sup>1</sup>	○	○
Communication interface	Digital input	○	√
	Digital output	○	√
	TTL debugging interface	X	√
	AS-I	○	√
	Profibus-DP	○	√
	ProfiNet	○	√

○-Optional functions  
1-Default brake coil voltage 380V AC

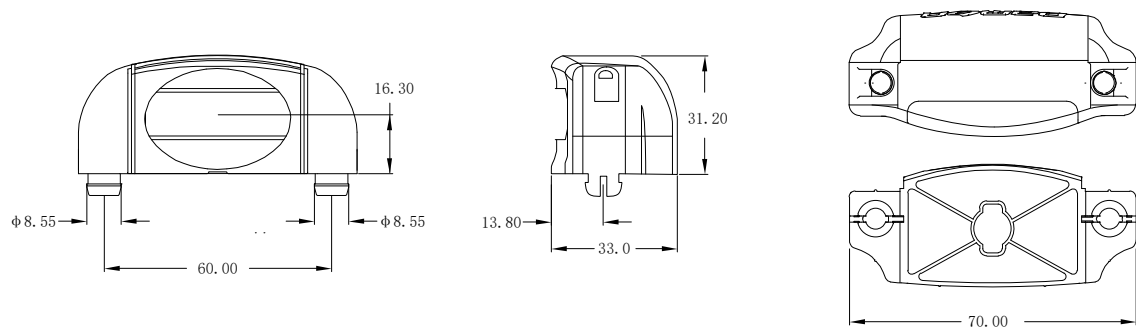
# System components

## TOR (Top Of Rail) Reflector Sensor Kit

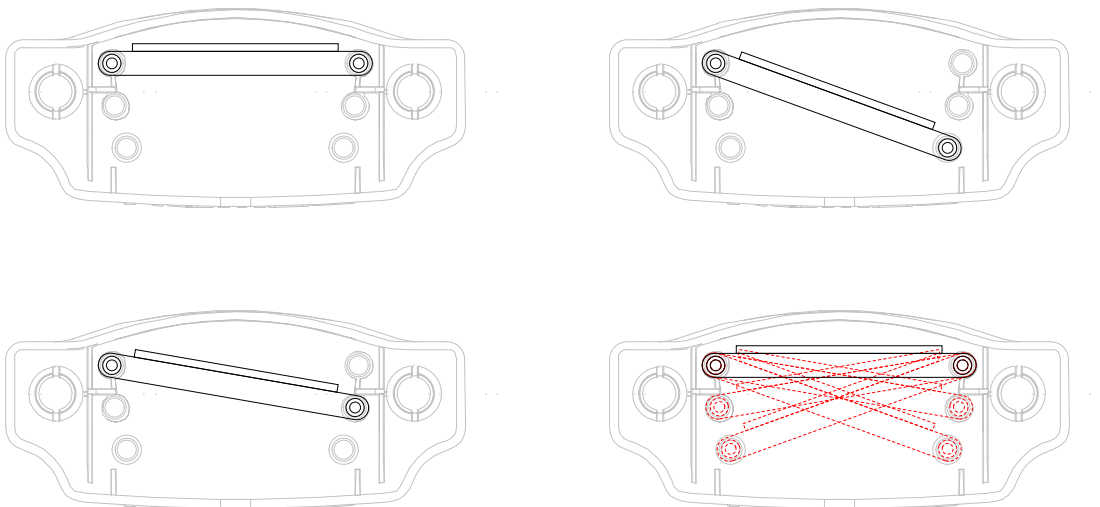
- Modular design
- Round and safe
- Plug and Play, easy installation



### Outline Dimensions



### Assembly Interface

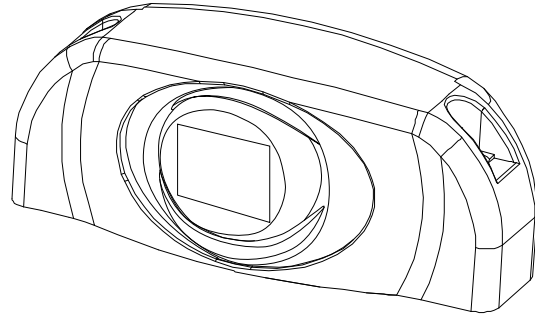


# System components

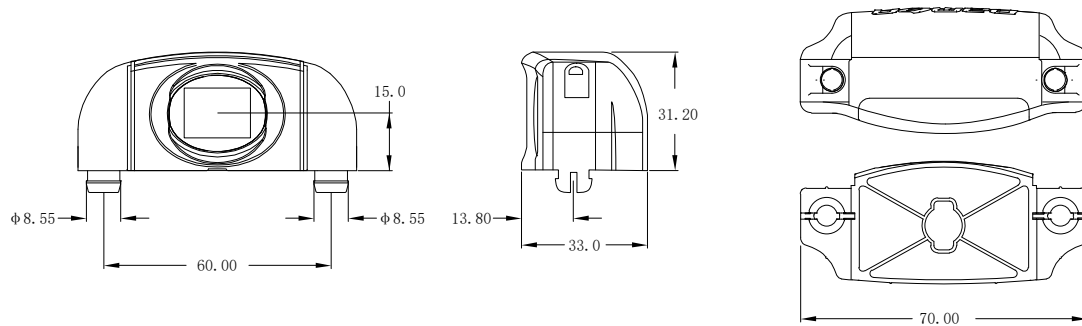
## TOR (Top Of Rail)

### Retro-reflective Sensor Kit

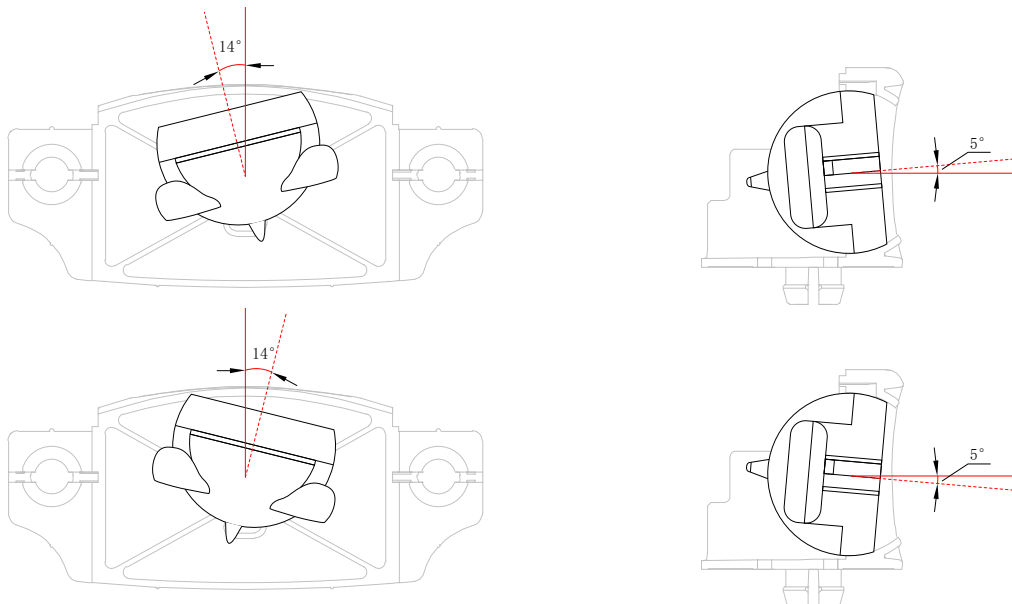
- Modular design
- Round and safe
- Plug and Play, easy installation



#### Outline Dimensions

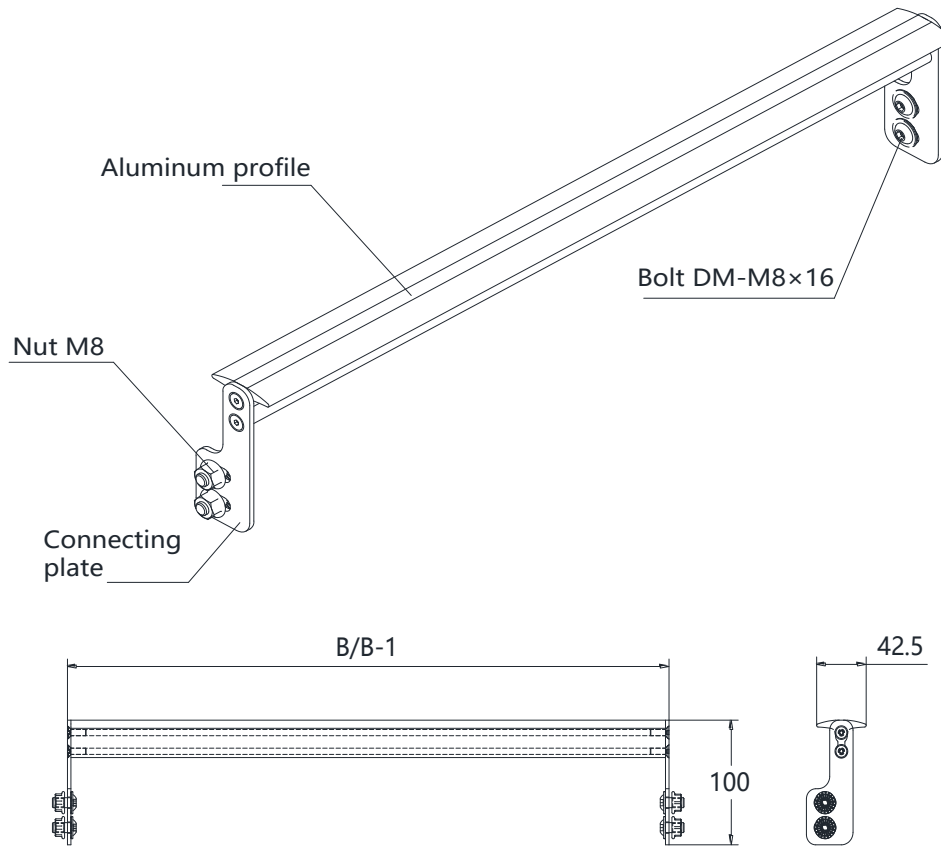


#### Assembly Interface



# System components

## Belt Conveyor Nip Guard



Belt conveyor nip guard: Effective width (within frame width)

B/B – 1mm: 416, 516, 616, 716, 816, 916mm

Connecting plate: Symmetrical, 3mm thick, zinc plated.

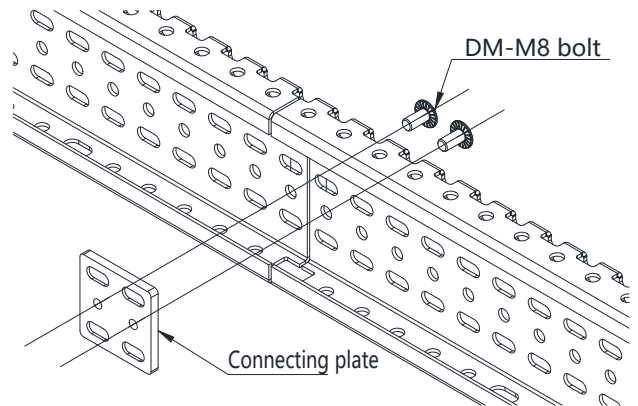
Aluminum profile: Aluminum alloy 6063-T5



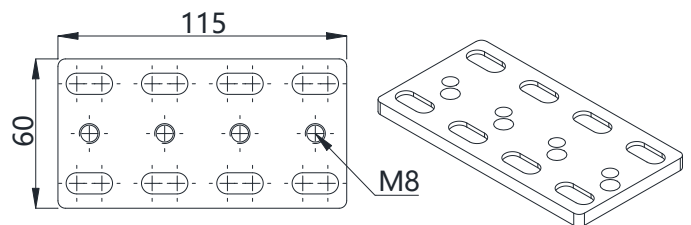
# System components

## Frame Connecting Plate

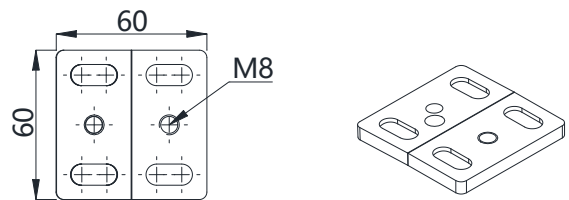
Material 6mm plate, zinc plated,  
fixed with Damon M8 bolt DM-M8.



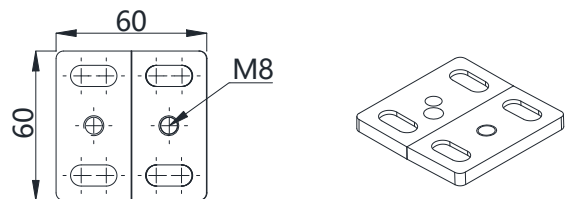
G5-FL-01:  
Joining plate for gravity and v-belt roller  
conveyors.



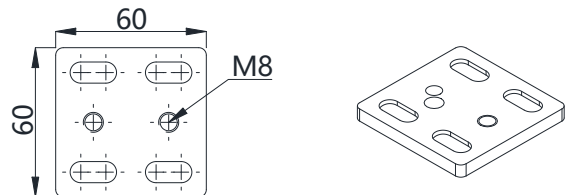
G5-FL-02:  
Joining plate for the outside of  
radius of curve conveyors.



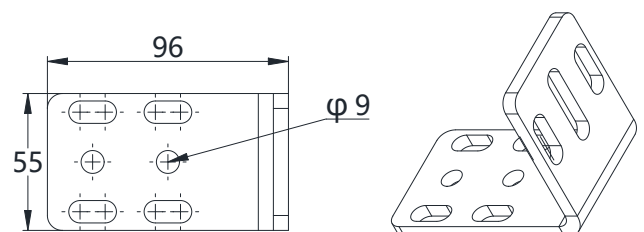
G5-FL-03:  
Joining plate for the inside of radius  
of curve conveyors.



G5-FL-04:  
Joining plate for belt conveyors  
and other various conveyor  
modules.



G5-FL-05:  
Used for vertical and rectangular  
connections between conveyors.

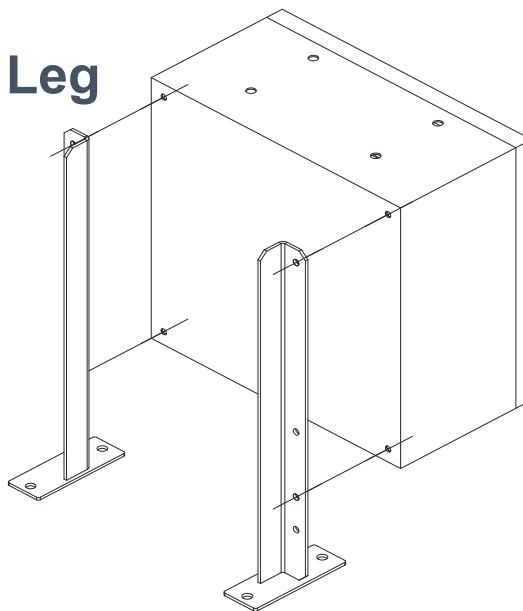


# System components

## Control Cabinet Support Leg

Floor mounted supports fix to the rear of the control cabinet.

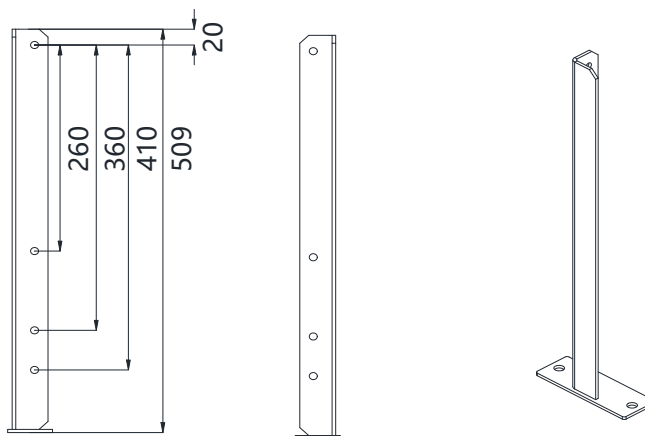
Applicable brands: Muwei, Haofuman, Vertu, etc



DM1011 001

Applicable cabinet sizes: 300 x 300,  
400 x 400

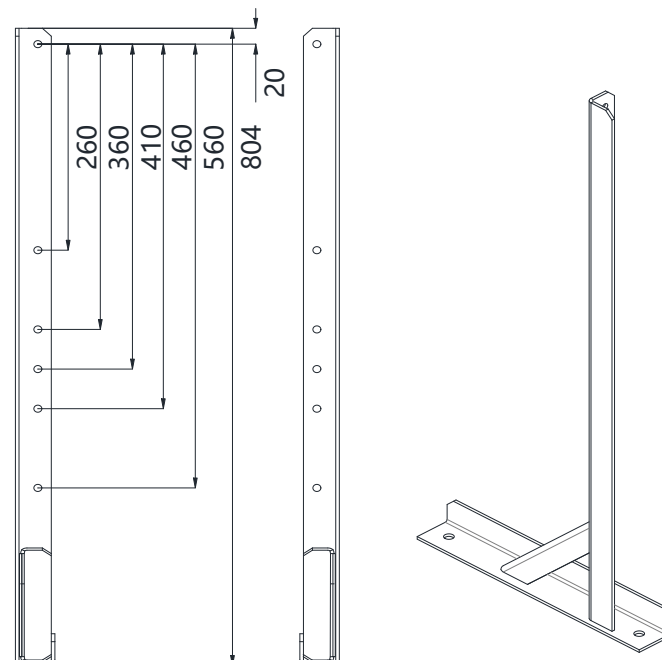
One set: 2 pieces asymmetrical supports



DM1011 002

Applicable cabinet sizes: 400 x 400,  
600 x 600

One set: 2 pieces asymmetrical supports



# System components

## Control Cabinet Hanging Support Bracket

Hanging support brackets fix to the top or bottom of the control cabinet.

DKGZJ.00-517

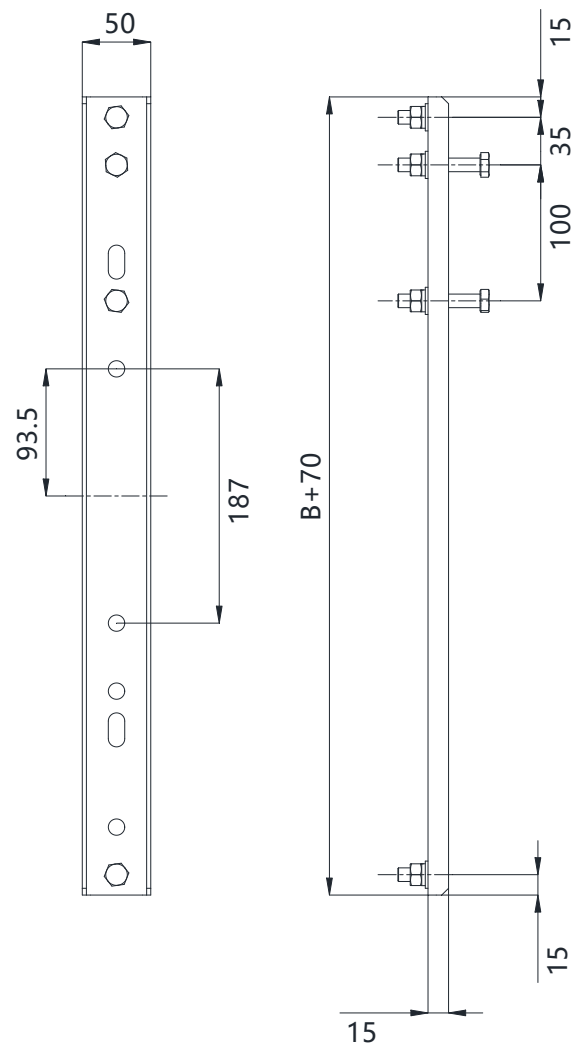
Applicable cabinet sizes: 300 x 300,  
400 x 400, 600 x 600  
To suit conveyor width: B/B 517mm  
One set: 2 pieces

DKGZJ.00-617

Applicable cabinet sizes: 300 x 300,  
400 x 400, 600 x 600  
To suit conveyor width: B/B 617mm  
One set: 2 pieces

DKGZJ.00-717

Applicable cabinet sizes: 300 x 300,  
400 x 400, 600 x 600  
To suit conveyor width: B/B 717mm  
One set: 2 pieces



# System components

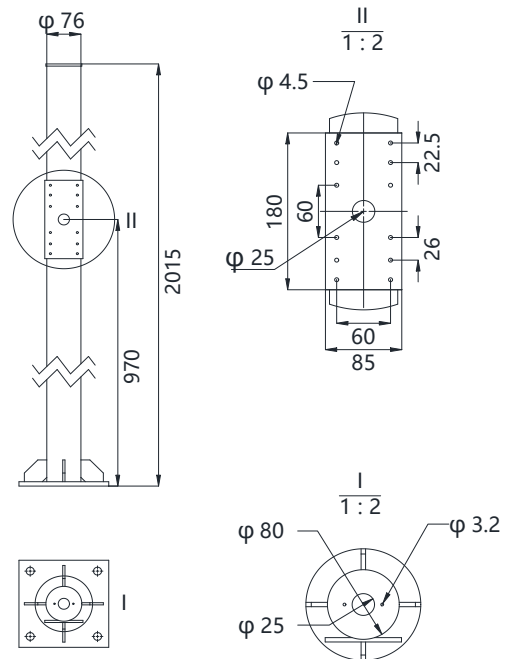
## Floor Mounted Lamp Stand

Combination push button station and lamp mounting stand.

Installation: Floor mounted.

Push button stations: Tayee

Lamp: Werma



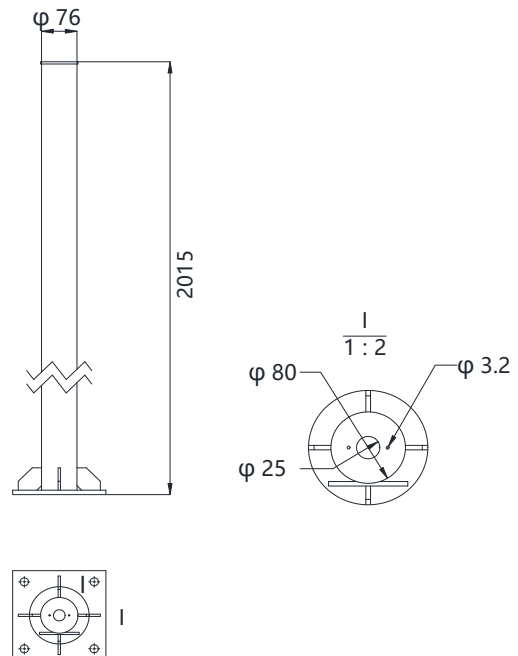
DM1003-001

Push button stations: Tayee TYX1, TYX2, TYX3

Lamp: Werma 680 859 00

DZ-01

Lamp: Werma 680 859 00

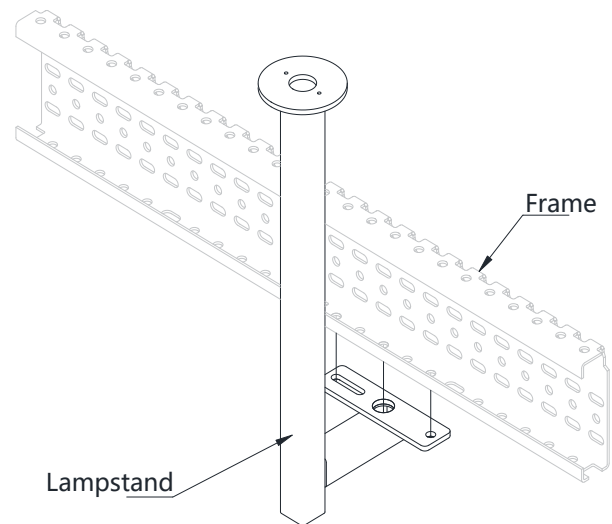


# System components

## Lamp Mounting Bracket

Side mounted under the conveyor frame.

Lamp: Werma



DM1004-450

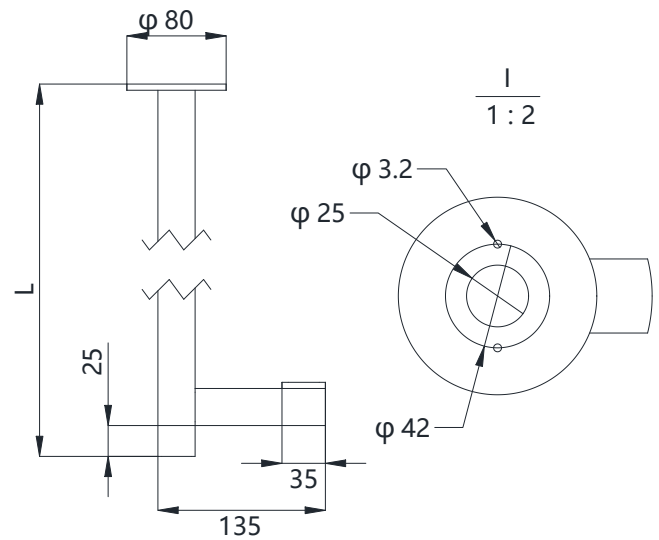
Length: 450mm

Lamp: Werma 680 859 00

DZ-04-750

Length: 750mm

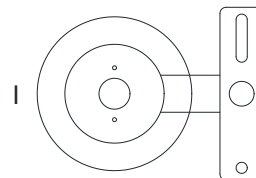
Lamp: Werma 680 859 00



DM1004-950

Length: 950mm

Lamp: Werma 680 859 00

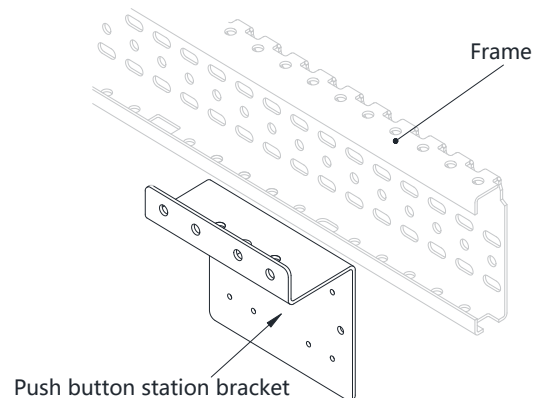


# System components

## Push Button Station Mounting Bracket

Mounting plate for push button stations, disconnect switches, scanner interface connection boxes. Side mounted under the conveyor frame.

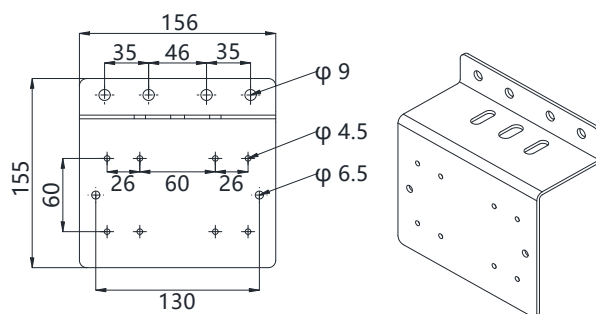
Push button stations: Tayee  
Disconnect switch: Schneider



DM1001-001

Push button stations: Tayee TYX1, TYX2

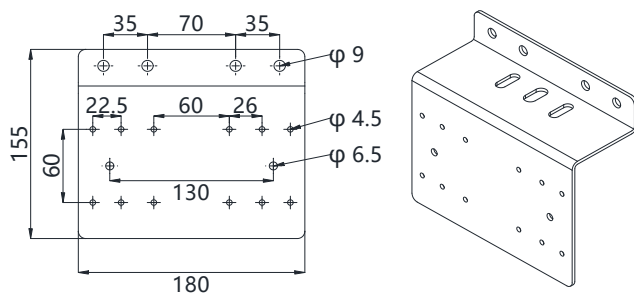
Disconnect switch: Schneider VCF02GE ~ VCF2GE



DM1001-002

Push button stations: Tayee TYX1, TYX2, TYX3

Disconnect switch: Schneider VCF02GE ~ VCF2GE



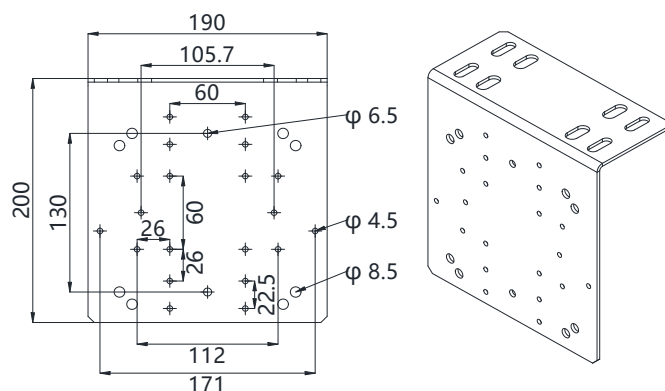
DM1002 001

Push button stations: Tayee TYX1, TYX2, TYX3

Disconnect switch: Schneider VCF02GE ~ VCF2GE

Scanner interface: Sick CDB620, CDM420

Welmu 180 x 180 x 92



# System components

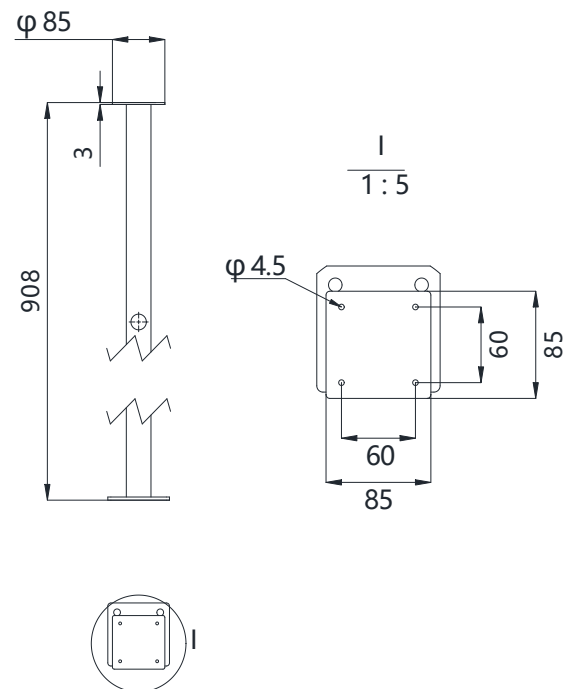
## Push Button Station Floor Mounting Stand

Push button station mounting stand.

Installation: Floor mounted.

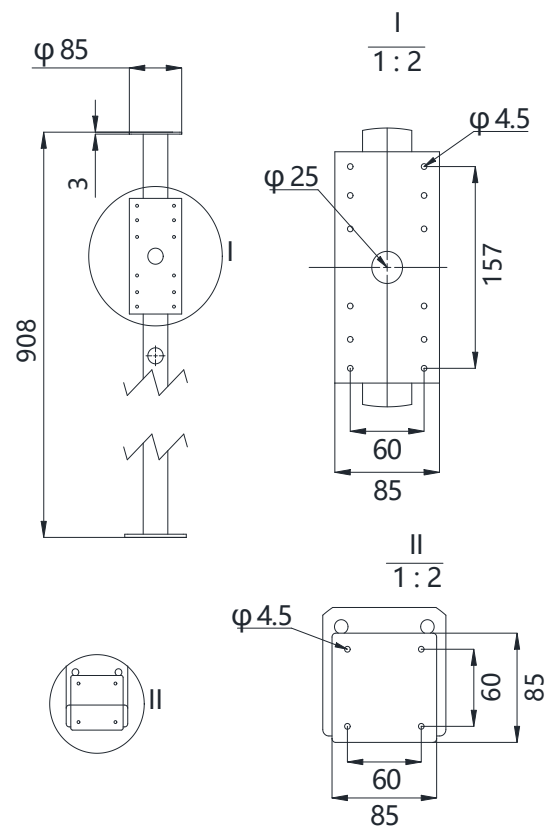
Push button stations: Tayee

Lamp: Werma 680 859 00



JTANH-01

Lamp: Werma 680 859 00



JTANH-02

Push button stations: Tayee TYX1, TYX2, TYX3

Lamp: Werma 680 859 00

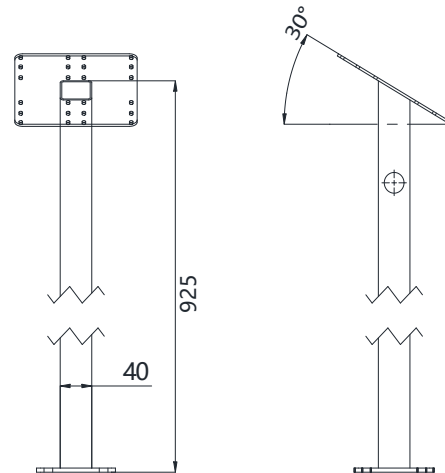
# System components

## Tilted Push Button Station Floor Mounting Stand

Push button station mounting stand with a tilted operating surface.

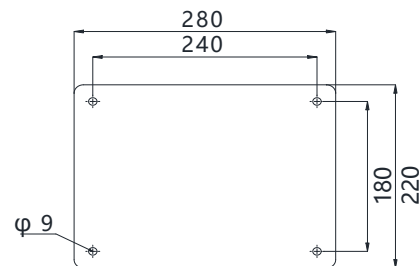
Installation: Floor mounted

Push button stations: Tayee



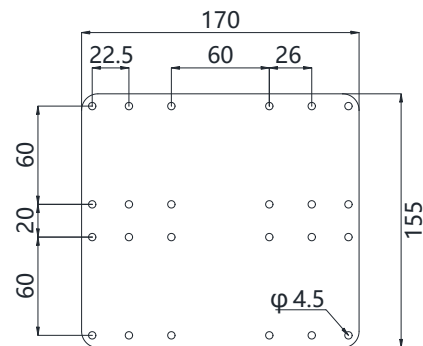
CMPZJ-01

220H x 280W mounting plate. Suitable for push button stations, touch screen operator panels.



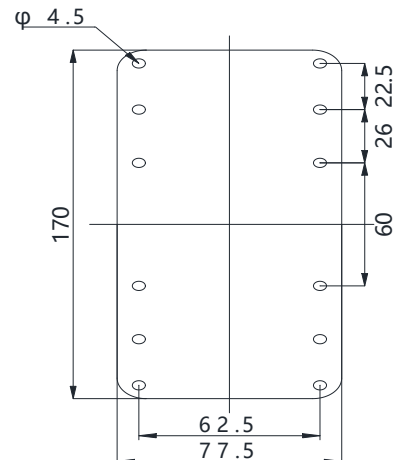
DM1008-002

Push button station: Tayee TYX1, TYX2, TYX3  
1hole enclosure, 2 hole enclosure, 3 hole enclosure.



DM1008-003

Push button station: Tayee TYX1, TYX2, TYX3  
1hole enclosure, 2 hole enclosure, 3 hole enclosure.





# System components

## Scanner Floor Mounting Stand

Barcode reader mounting stand.

Installation: Floor mounted, top scanning.

### DM1004-450

Suitable for carton conveyors with an effective width: 417mm, 517mm, 617mm.

Height: 2000mm above floor level.

Overall dimensions: 916mmW x 2000mmH

### DZ-04-750

Applicable to the carton conveyors with effective width: 417mm, 517mm, 617mm. 1600mm above ground level.

Boundary dimension: W=916, H=1600

Suitable for carton conveyors with an effective width: 417mm, 517mm, 617mm.

Height: 1600mm above floor level.

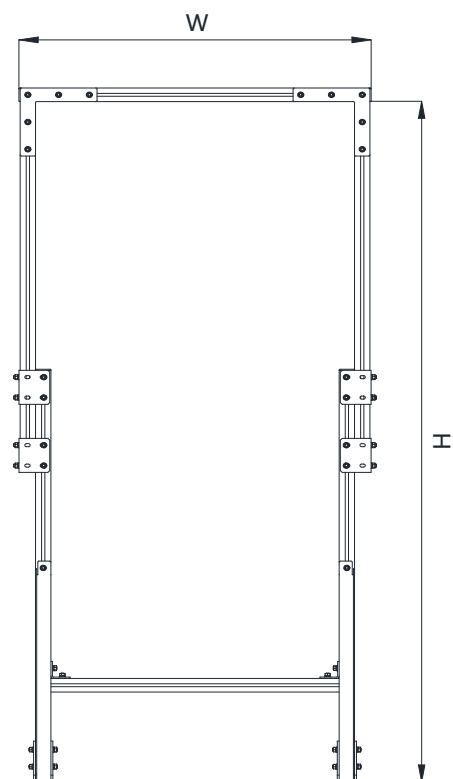
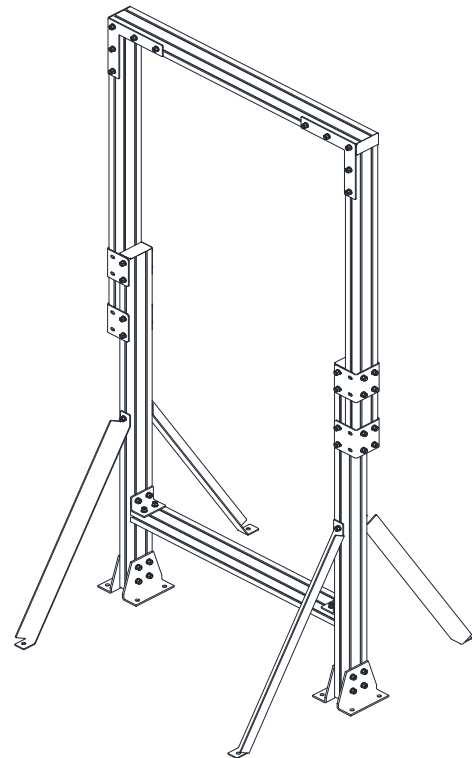
Overall dimensions: 916mmW x 1600mmH

### DM1004-950

Suitable for carton conveyors with an effective width: 417mm, 517mm, 617mm.

Height: 1800mm above floor level.

Overall dimensions: 916mmW x 1800mmH





Damon was founded in 1997 and has changed the world by virtue of technology by linking our intention of creating the future and constantly exploring the boundaries of technology to solve problems in the logistics industry through the integration of technology.

[www.damon-group.com](http://www.damon-group.com)

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