

## ASBM24 | ASBM48 Belt Module Kit

1 or 2  
BLDC  
Motors

Timingbelt

External  
Motor  
Driven

MDR  
Driven

24 V  
160 Watt

48 V  
160 Watt

### Intended Use

All AS customers have free access to our designs for conveying modules which they can use to create their own belt and roller conveyor modules.

AS roller modules are used to transport products up to 35 kg per module.

- Carton and Plastic Boxes
- Plastic Crates and Totes
- Bags and Envelopes
- Poly Bags
- Odd packages

### Designed for the future

AS Roller modules can be used with our in-house developed components in order to meet today's and tomorrow's application areas.

Operational specifications and state of the art features.

- Standard transportation up to 1.2 m/s
- High speed applications up to 2.5 m/s
- Multiprotocol onboard chip
- Preventive maintenance en advanced analytics



### Scope of delivery

The scope of delivery defines the required components in order to create a working application, it is advised to consult our website for training material to choose what components you need for your application or what kits are available.

Components	Details	Specifications	Values	Scope	
1	AS MDR  EM	Motor Driven Roller	Belt Pulley MDR	80 Watt	Included
2	Tension rollers	Zinc plated steel rollers	Belt Pulley Slaverollers	50 x 1.5 mm	Included
3	PU Belt	Low friction Black PU Belt	1.2 mm guided PU Belt, single ply	1.2 mm PU	Included
4	Conveyor Frame	Aluminum and steel parts	Black/ Clear Anodized Aluminum	-	Included
5	Support rollers	Zinc plated steel rollers	Non driven slave rollers	30 x 1.5 mm	Included
6	AS Dual or Quatro	Dual or Quatro Motor controller	See ASD2448 or ASQ2448 datasheet	-	Not Included
7	Emergency Cable	3 pin Snap-in	2x M8 male	-	Not Included
8	24V or 48V PSU	24V 5A or 48V 5A Powersupply	240 Watt advised	-	Not Included

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### Technical Specifications

#### ASBM24 | ASBM48 Belt Module Kit

	24 VDC Motors	48 VDC Motors
Input voltage (Rated)	24 VDC 4A   range 18 -28 VDC	48VDC 2A   range 42 -54 VDC
Starting Current	4.5 A at 24 VDC	3.0 A at 48 VDC
Power Consumption (Rated)	80 W with 1 motor   160 W with 2 motors	
Motor Connector	M8 5-pin Snap-in[1x]	
Sensor Connector	Not included	
Motor Types	ASMDR or ASEM	ASMDR or ASEM
Roller Types	Poly-V   Round Belt   Timing Belt   Flat Belt	
Certifications	CE   ETL <sup>1</sup>	
Ambient Temperature	Operation 0 to +40 C°   Transport -20 to +80 C°	
Protection Rate	IP 54   IP 65 (on request) <sup>2</sup>	
Installation Altitude	Max +1000 m from sea level	
Standard Configuration	1.2 m/s max at 35 kg per zone [500 RPM @ 50 mm roller] <sup>3</sup>	
High Speed Configuration	2.5 m/s max at 25 kg per zone [1000 RPM @ 50 mm roller] <sup>4</sup>	
Available sizes configurations	420 - 450   620 - 650   820 - 850   1020 - 1050	
Available material configurations	Anodised Aluminum Frame   Zinc plated rollers   Stainless steel rollers	
Dimensions LxWxH	894 x 620 x 130 mm [Varies according to configuration]	
Weight	15 kg [Varies according to configuration]	

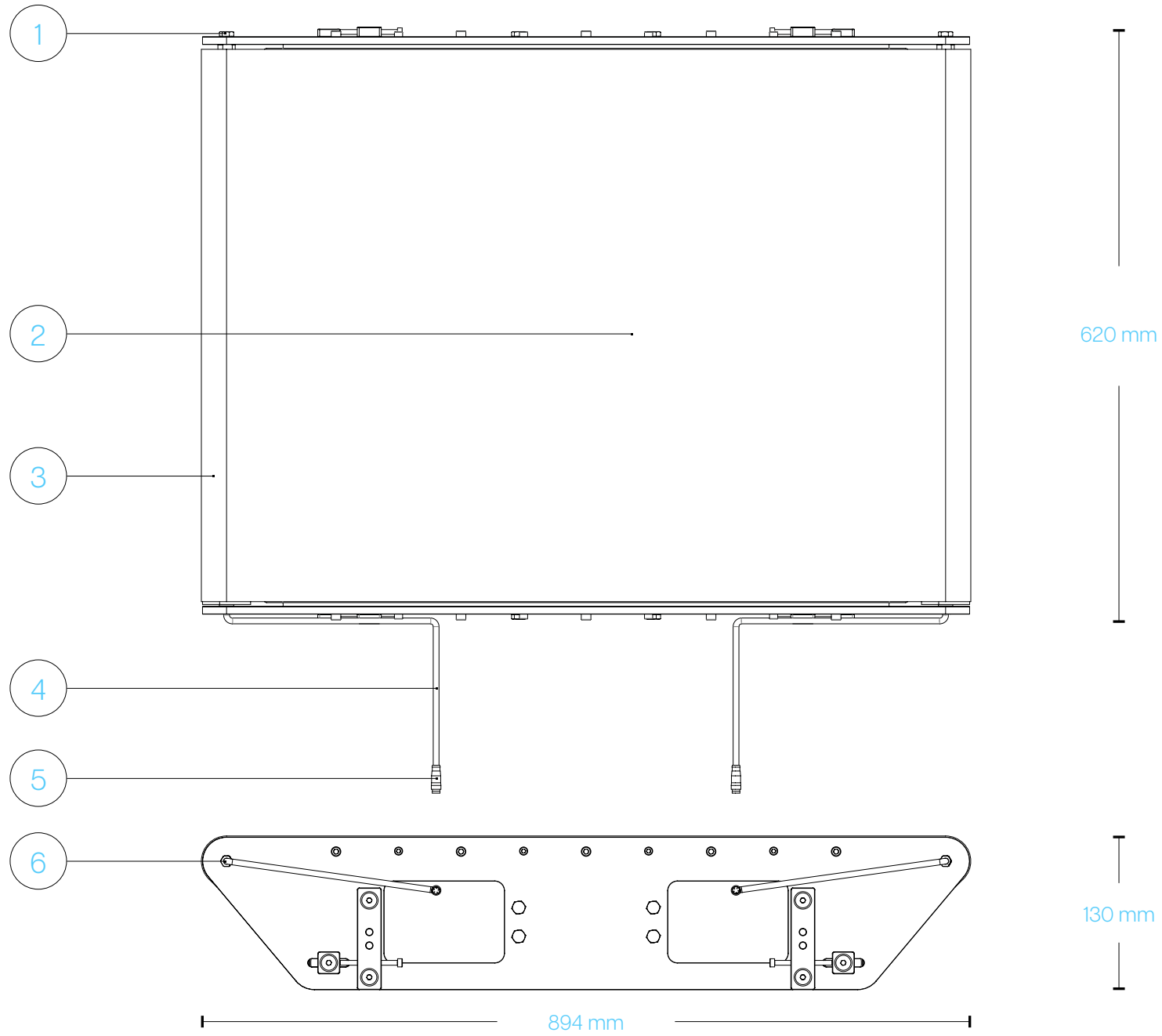
### Additional information

1. Contact us for information about applications in countries that require ETL listed components.
2. Please contact us if your application requires IP 65 protection rate, or other requirements.
3. Standard belt module application up to 1.2 m/s and 35 kg per meter require only 1 motor per module
4. High speed belt module applications up to 35 kg per meter may require 2 motors per module
5. Using other non AS core components might affect the performance of the belt module

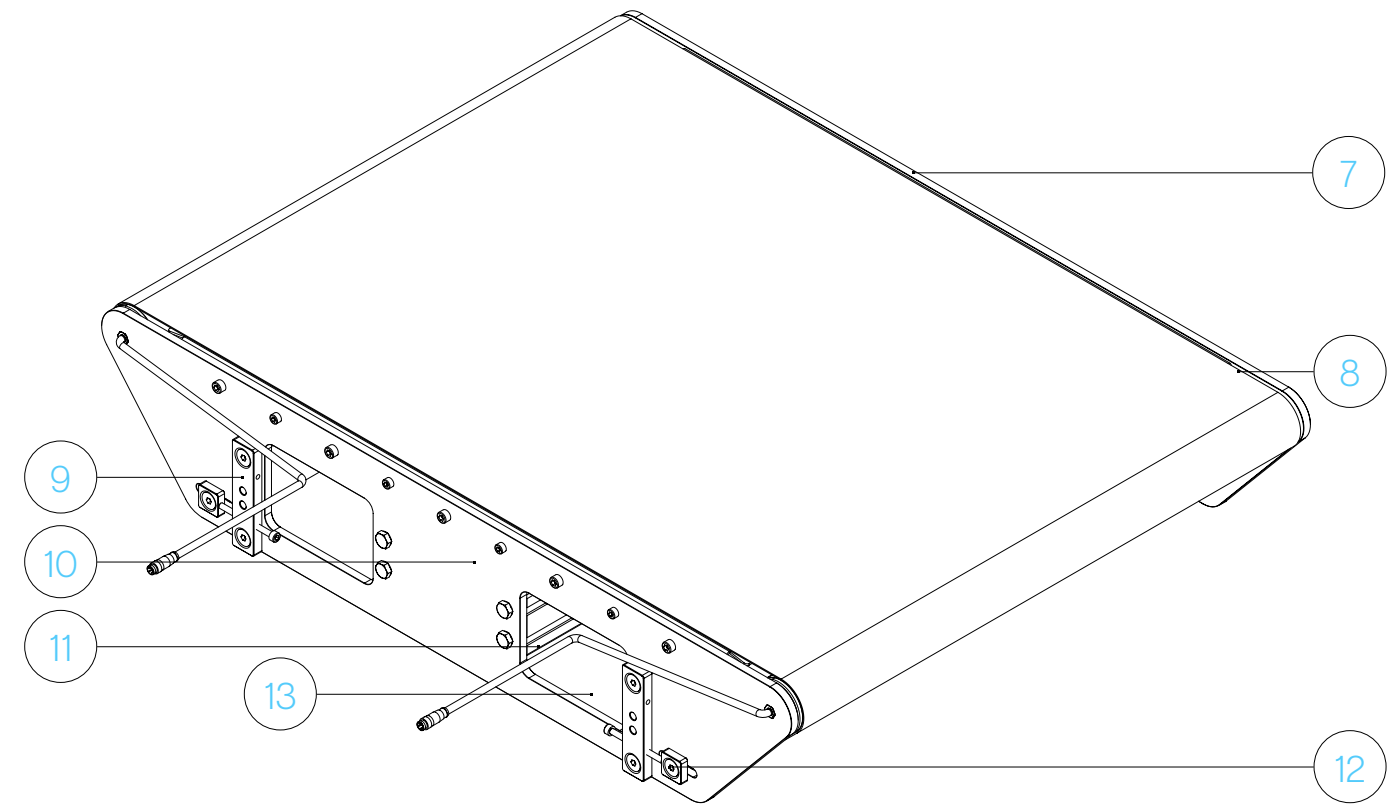
Please visit our website for the latest 3D CAD drawings and variations in dimensions/ configurations.

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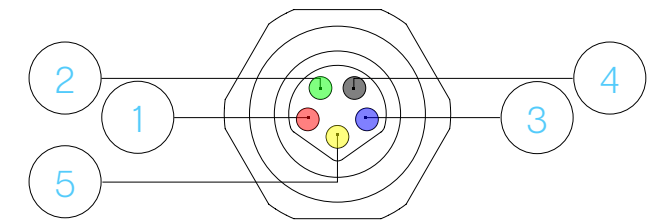
Description	Details	Description	Details
1 MDR mounting axis	M8x15 Bolt	8 Fingerguard	2 mm stainless steel
2 PU belt + guide strip	1.2 mm PU, single ply	9 Mounting bracket	8 mm Aluminium
3 MDR + Belt Pulley	50x1.5, zinc plated	10 Aluminum side profile B	8 mm Aluminium
4 MDR Cable	6 mm PU Cable	11 Structural Support	60x30 Extrusion profile
5 Motor Connector	M8 5-pin	12 Belt tensioning mechanism	M6x50, Idler Rollers
6 MDR Cable outlet	Hex 11	13 Cable Outlet and Carrying hole	-
7 Aluminum side profile A	8 mm Aluminium plate		



## Connection Specifications

Motor Connector 5

1. 24 V / 48 V | Red | 0.34 mm<sup>2</sup>
2. Direction | Green | 0.25 mm<sup>2</sup>
3. GND | Blue | 0.34 mm<sup>2</sup>
4. Error/ Pulse | Black | 0.25 mm<sup>2</sup>
5. Speed | Yellow | 0.25 mm<sup>2</sup>



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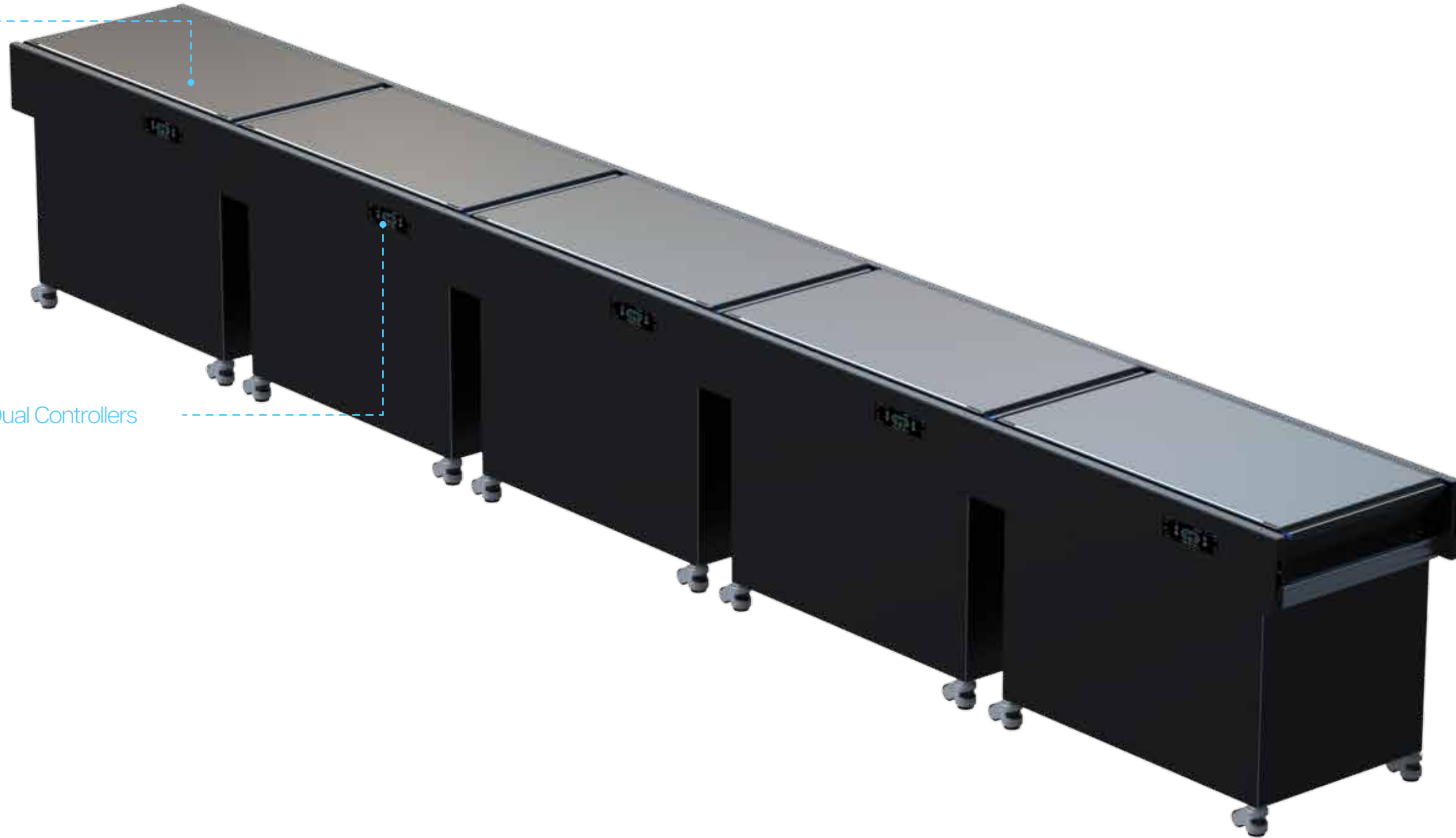
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### Example application: 1 Transport Conveyor

Transport conveyors are used to transport any number of packages up to the load capacity of the belt conveyors. By using a modular design normal transport can be changed into Zero Pressure Accumulation transport.

AS Belt Module

AS Dual Controllers



### Disclaimer

AS and AS partners are not responsible for integration and usage of our products outside of the specified application range, technical specifications and in combination with third party components.

Images may differ from the actual product due to our continuous product improvement.

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## Required Components and Modules

	Information	Specifications
1	ASBM Belt Module	Transport weights up to 35 kg @ 1.25 m/s
2	ASD2448 Dual motor controller	2x motor   6x I.O.   1x Power in   2x Emergency



**AUTOMATION SUPPLY**  
Ondernemingenweg 26  
5627 BV Eindhoven  
The Netherlands  
info@automationsupply.nl  
+31 (0)40 304 1758