

## ASLDM24 | ASLDM48 Lift and Drop Module

1 or 2  
BLDC  
Motors

Timing Belt

External  
Motor  
Driven

MDR  
Driven

24 V  
160 Watt

48 V  
160 Watt

### Intended Use

All AS customers have access to our designs for Lift and Drop modules which they can use to create their Lift and Drop applications.

AS Lift and Drop modules are used to process products up to 35 kg on the following configurable modules

- Roller or Belt Modules
- Right Angle Sorter
- Custom Equipment

### Designed for the future

AS Lift and Drop Modules can be made 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 applications up to 35 kg
- Heavy applications up to 100 kg
- Simple controls and built-in set points.
- Preventive maintenance & 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 EM	External Motor	24 or 48 VDC Motor	80 Watt	Included
2	AS Spindle Lift	Chromium Steel Spindle and Axis	HTD 8 M Driven + black-out lock	20 mm pitch	Included
3	Belts	Timing belt driven	HTD 8M 20 mm	-	Included
4	Construction	Lift supporting Frame	Extrusion Profiles, 3 mm black covers	-	Included
5	24V or 48V PSU	24V 20A or 48V 10A Power Supply	480 Watt advised	-	Included
6	AS Dual or Quatro	Dual or Quatro Motor controller	See ASD2448 or ASQ2448 datasheet	-	Not Included
7	Conveyor Module	Sheet metal parts	See ASRM or ASBM datasheet	-	Not Included
8	Emergency Cable	3 pin Snap-in	2x M8 male	-	Not Included



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### Technical Specifications

#### ASLDM24 | ASLDM48 Lift and Drop Module

	24 VDC Motors	48 VDC Motors
Input voltage (Rated)	24 VDC 8A   range 18 -28 VDC	48VDC 4A   range 42 -54 VDC
Starting Current	4.5A at 24 VDC	3.0A at 48 VDC
Power Consumption (Rated)	160 W	160 W
Motor Connector	M8 5-pin Snap-in[1x]	
Sensor Connector	M12 4-Pin	
Emergency Connector	No Emergency	
Motor Types	ASMDR or ASEM	ASMDR or ASEM
Roller Types	Poly-V   Round 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	100 mm/s and 35 kg load <sup>3</sup>	
Height Configuration	Standard up to 2.000 mm   above 2.000 on request <sup>4</sup>	
Angle Add ons	Belt or Roller Module   RA Sorter   Custom Equipment	
Available material configurations	Powder Coated Steel Frame   Zinc plated rollers   Stainless steel rollers	
Dimensions LxWxH	1240 x 800 x Height mm [Varies according to configuration]	
Weight	100 kg [Varies according to configuration]	

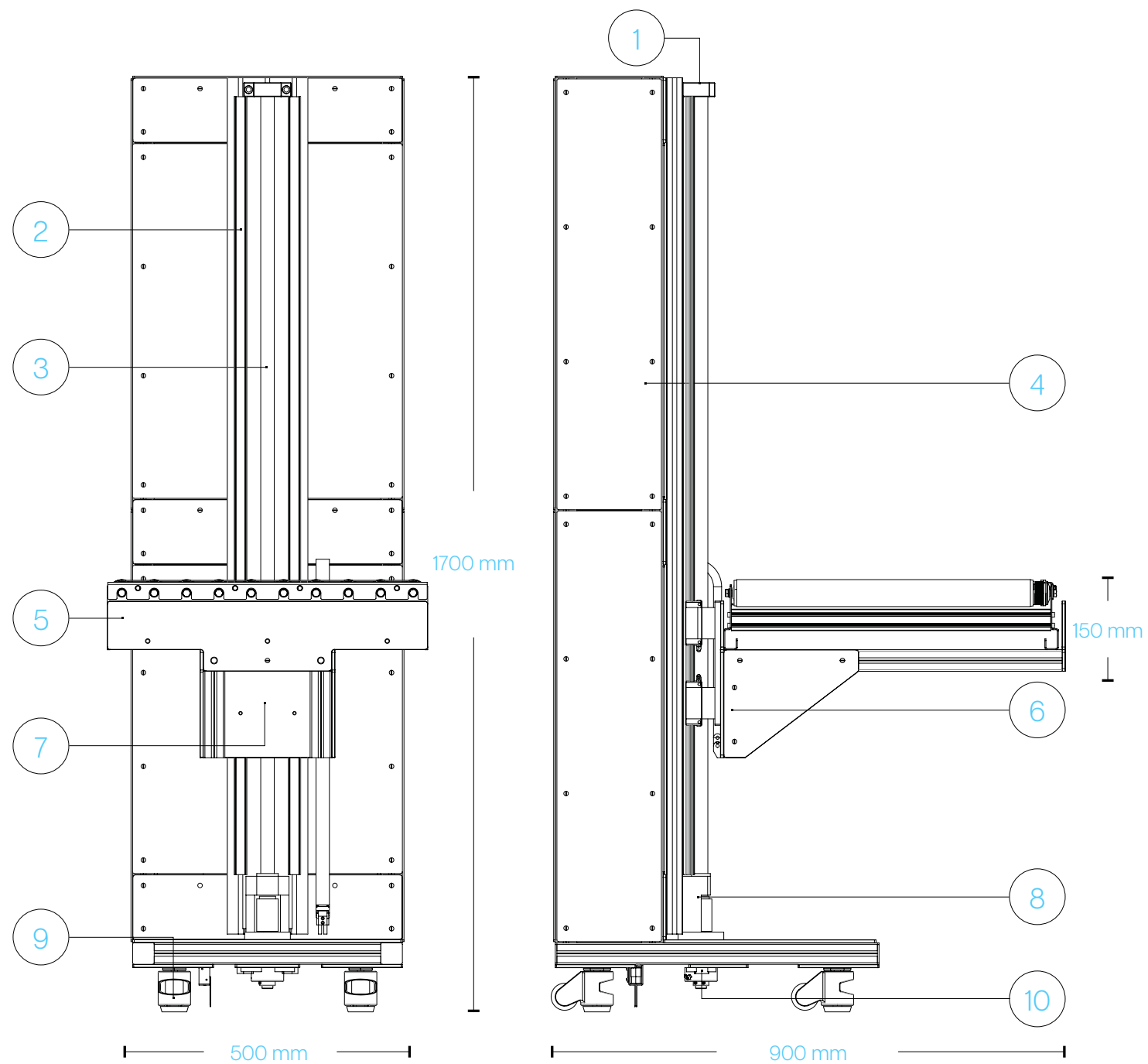
### Additional information

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 lift and drop module application up to 100 mm/s and 35 kg of load.
4. The height of the Lift and Drop module can be customized up on request.
5. Using other non AS core components might affect the performance of the Lift and Drop module

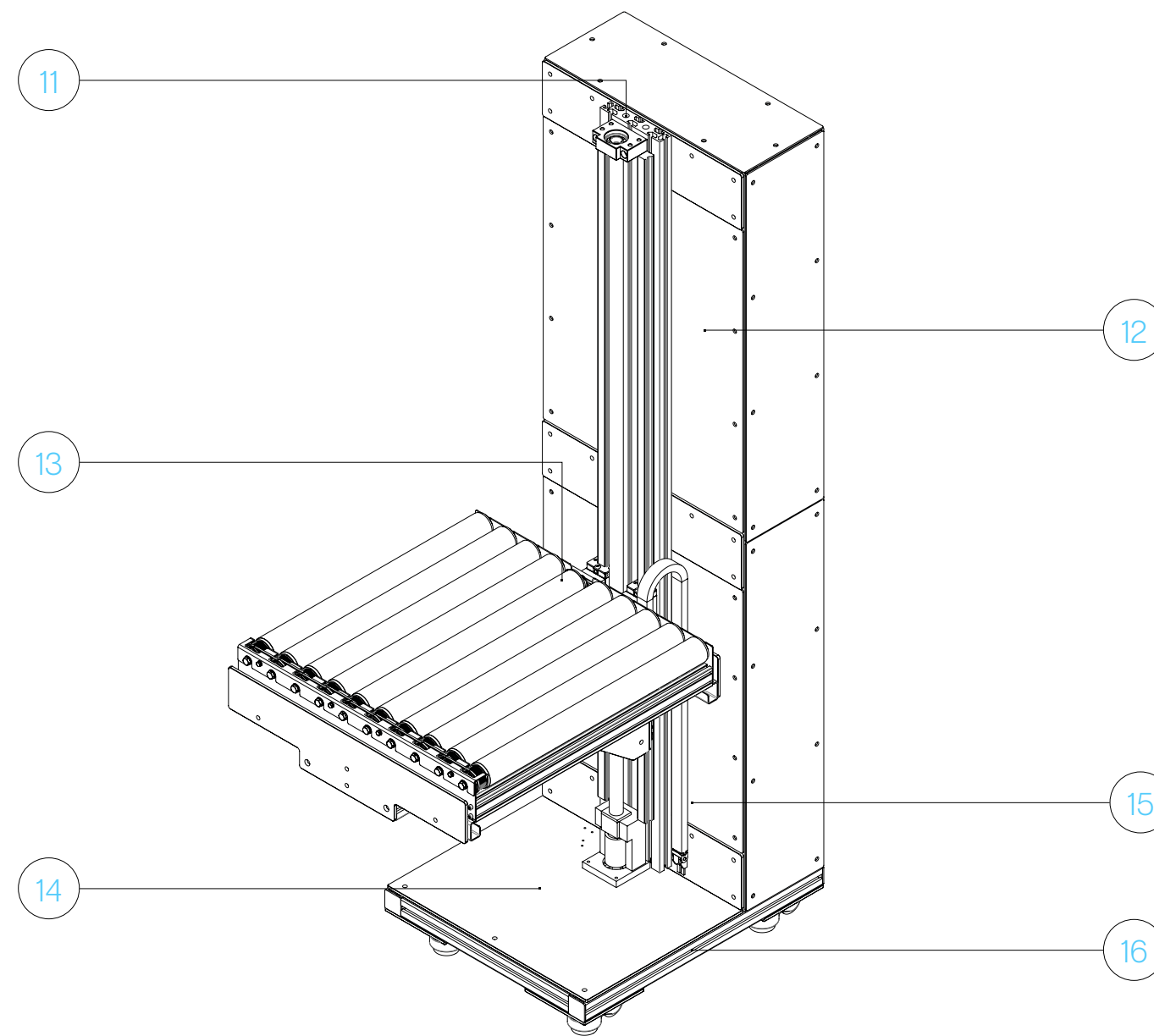
Please visit our website for the latest 3D CAD drawings and variations in dimensions/ configurations.

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- External Motor Driven
- MDR Driven
- 24 V 160 Watt
- 48 V 160 Watt



Description	Details	Description	Details
1 Top Bearing	Chromium Steel Bearing	9 Wheel Caster	300 kg load max
2 Linear Guide	Heavy Duty Bearing Block	10 Lift Motor + Pulley	ASEM24 or 48 VDC
3 Spindle	Chromian Steel Spindle	11 Lift Support Profile	Aluminium Extrusion Profile
4 Side Cover	3 mm cover	12 Side Cover	3 mm cover
5 Roller Module	ASRM24	13 MDR	ASMDR24 or 48 VDC
6 Lifting Platform	3 mm powdercoat steel	14 Weighted Bottom Plate	3 mm steel
7 Spindle Block	Zinc Plated, Plastic Parts	15 Energy Chain	Modular Chain
8 Bottom Bearing + Pulley	HTDM 8 Pulley	16 Lightweight Construction	Aluminium Extrusion profile

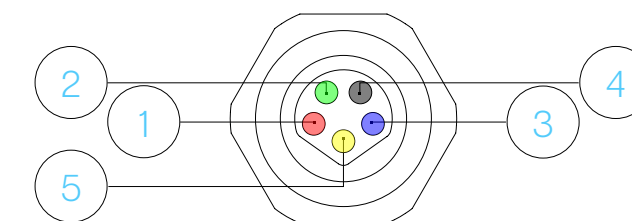


## Connection Specifications

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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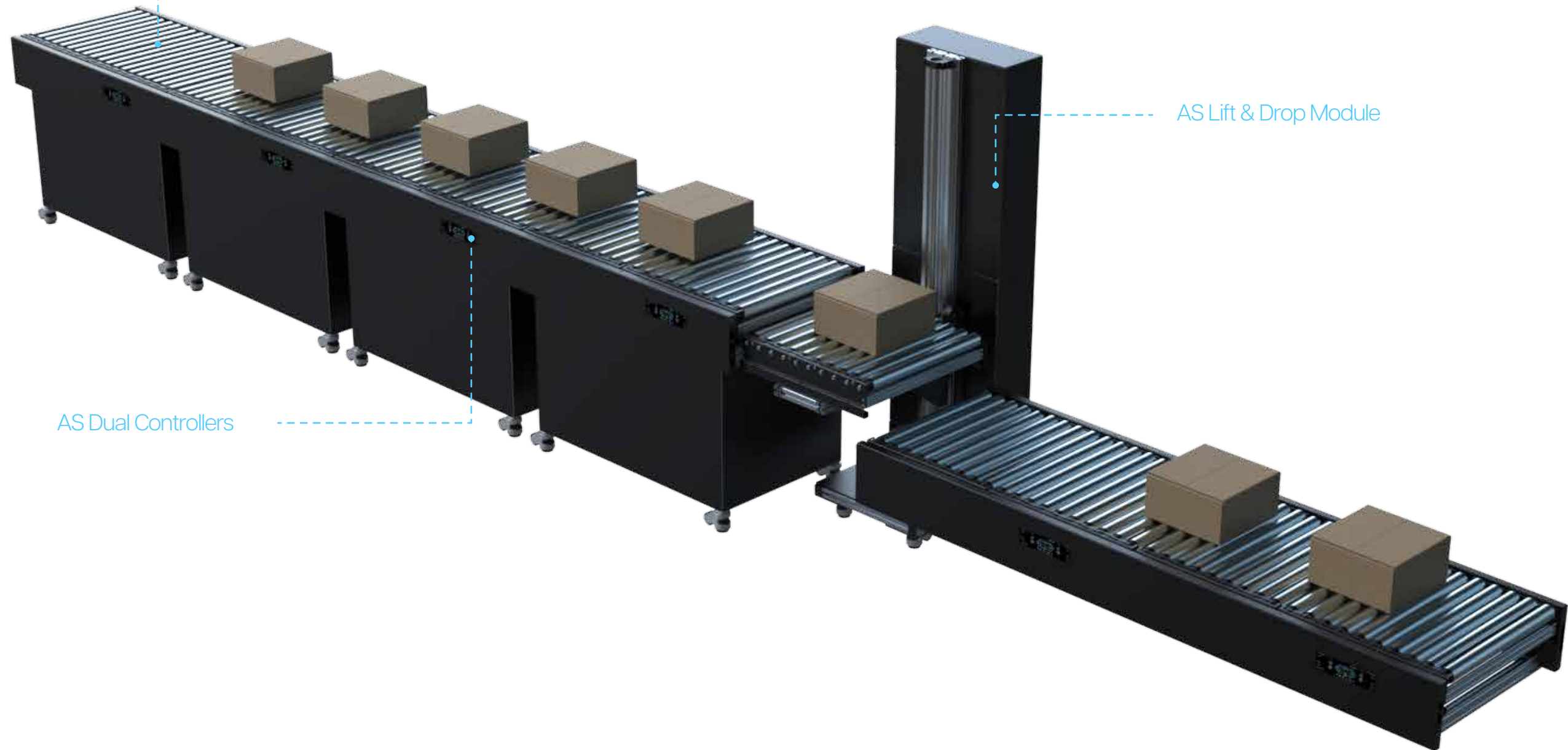
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### Example application 1 Applying Lift and Drop Modules

Lift and Drop modules of the AS product range are designed to move in and between multi level conveyors with minimal effort. Due to the modular design many variations can be made.

AS Roller Modules



AS Dual Controllers

AS Lift & Drop Module

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### Required Components and Modules

	Information	Specifications
1 ASRM	Roller Module	Transport weights up to 35 kg @ 1.25 m/s
2 ASLD	Lift and Drop Module	Lifts and Transports weights up to 35 kg @ 1.25 m/s
3 ASD2448	Dual motor controller	2x motor   6x I.O.   1x Power in   2x Emergency
3 Sensor	Sensor for detecting packages	24V sensor

### 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.



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