

ASRDM24 | ASRDM48 Roller Divert Module Kit

1 or 2
BLDC
Motors

Poly-V
Roundbelt

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 divert modules are used to divert/merge 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 divert 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 External Motor	Poly-V or Roundbelt MDR or EM	80 Watt	Included
2	Slaverollers	Zinc plated steel roller	Poly-V or Roundbelt Slaverollers	50 x 15	Included
3	Poly-V Belts	Pitch 60 or Pitch 90 mm	2PJ for 60 or 90 mm pitch	-	Included
4	Conveyor Frame	Sheet metal parts	RAL 9005 powder coated steel frame	2 mm Steel	Included
5	AS Dual or Quatro	Dual or Quatro Motor controller	See ASD2448 or ASQ2448 datasheet	-	Not Included
6	Emergency Cable	3 pin Snap-in	2x M8 male	-	Not Included
7	24V or 48V PSU	24V 10A or 48V 5A Power Supply	240 Watt advised	-	Not Included



Technical Specifications

ASRDM24 | ASRDM48 Roller Divert 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	M12 4-Pin	
Emergency Connector	No Emergency	
Motor Types	ASMDR or ASEM	ASMDR or ASEM
Roller Types	Poly-V Round Belt Timing Belt Flat Belt	
Certifications	CE ETL ¹	
Ambient Temperature	Operation 0 to +40 C° Transport -20 to +80 C°	
Protection Rate	IP 54 IP 65 (on request) ²	
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] ³	
High Speed Configuration	2.5 m/s max at 25 kg per zone [1000 RPM @ 50 mm roller] ⁴	
Available sizes configurations	420 - 450 620 - 650 820 - 850 1020 - 1050	
Available material configurations	Powder Coated Steel Frame Zinc plated rollers Stainless steel rollers	
Dimensions LxWxH	620 x 620 x 128 mm [Varies according to configuration]	
Weight	15 kg [Varies according to configuration]	

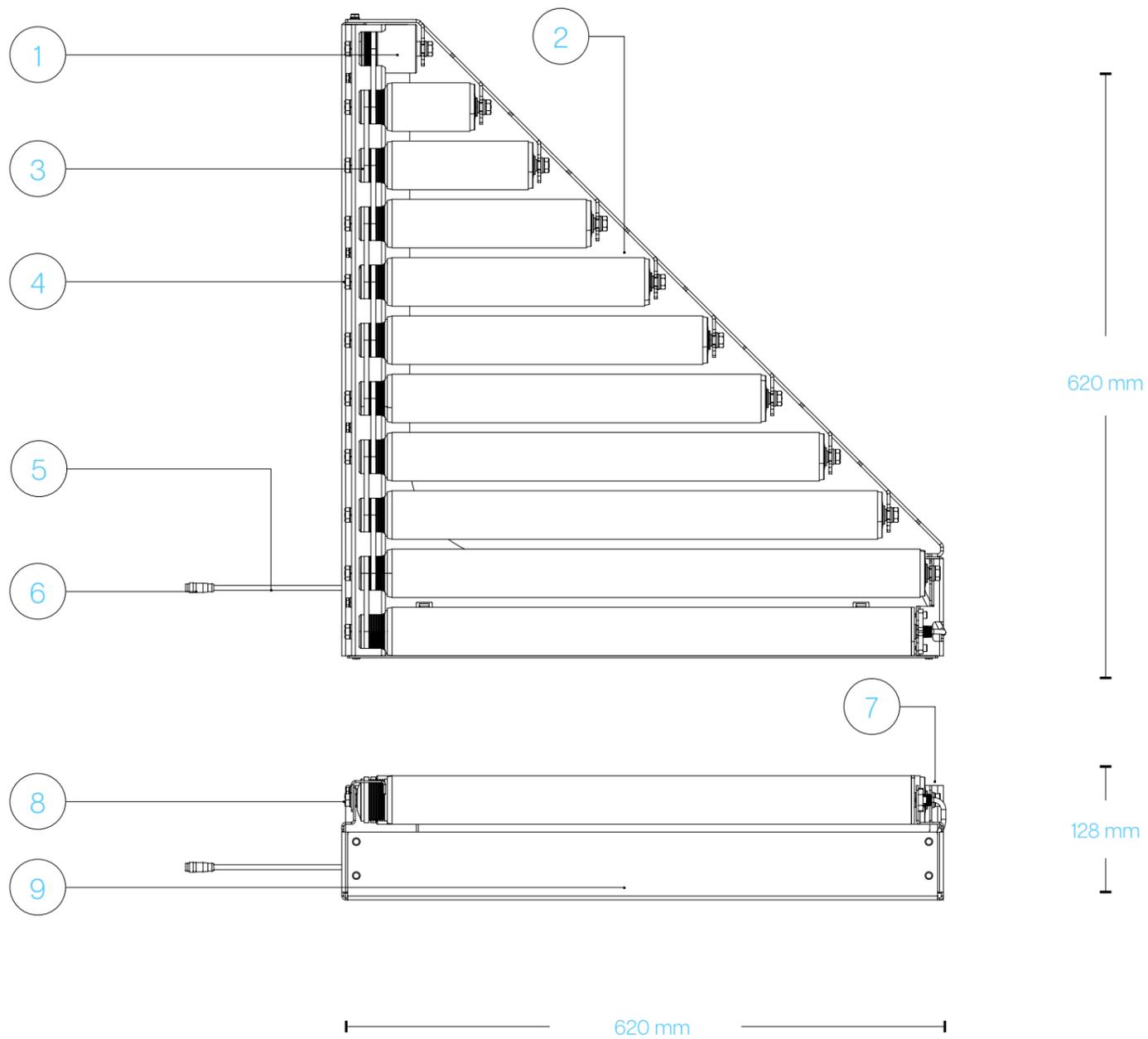
Additional information

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 roller divert module application up to 1.2 m/s and 35 kg per meter require only 1 motor per module
4. High speed roller divert 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 roller divert module

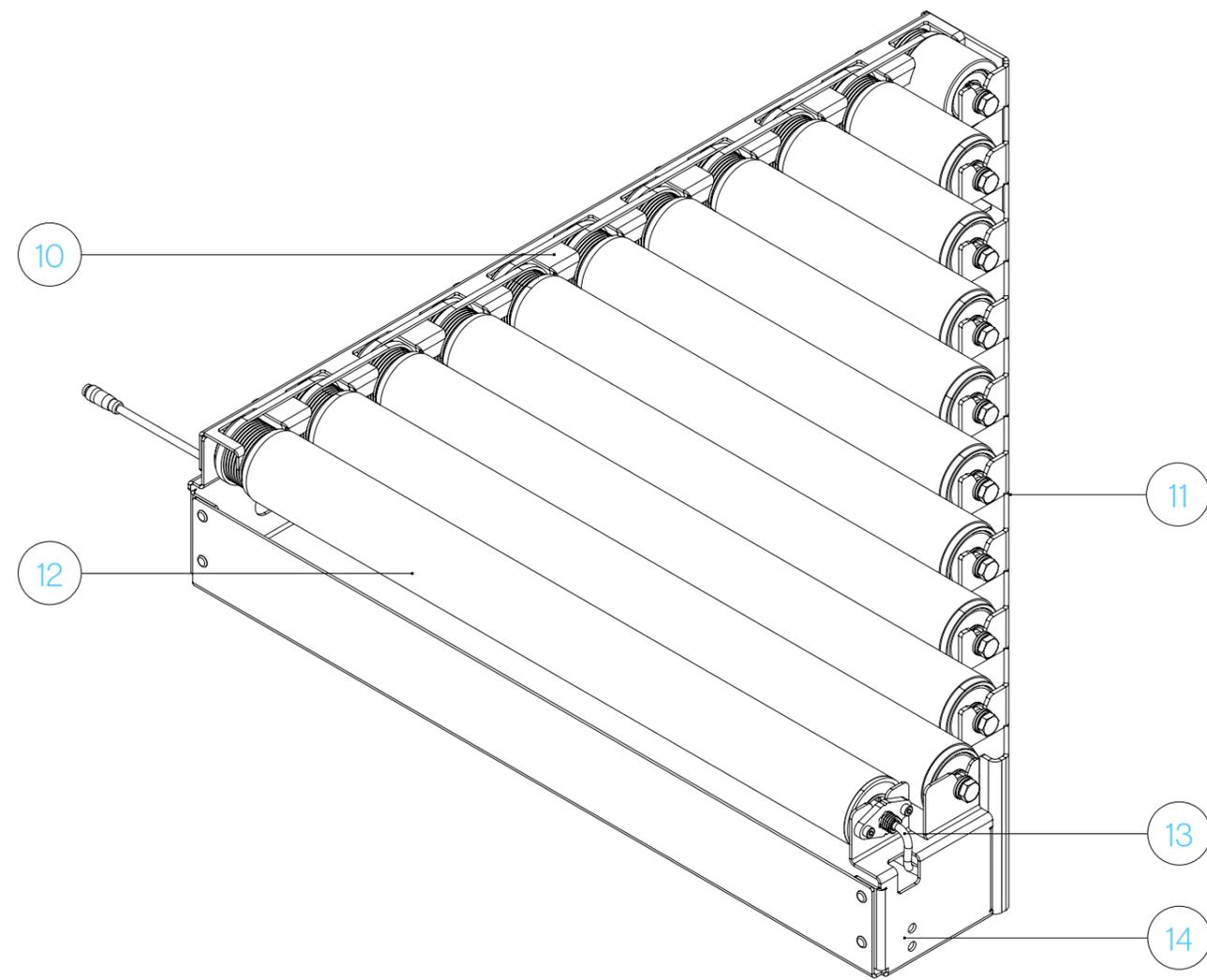
Please visit our website for the latest 3D CAD drawings and variations in dimensions/ configurations.

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Description	Details	Description	Details
1	MDR mounting axis M12x1,75 18 mm	8	MDR Mounting Hex 11 or M12x15
2	Roller Mounting Frame A 2 mm Powder Coat Steel	9	Rollerbed Frame 2 mm powder coated steel
3	Poly-V Belt 2PJ	10	Fingerguard 2 mm powder coated steel
4	Slaver Roller Mounting M8x15 Bolt	11	Roller Mounting Frame B 2 mm powder coated steel
5	Motor Cable 6 mm PU Cable	12	MDR Poly-V 24 VDC or 48 VDC
6	Motor Connector M8 5-pin	13	MDR Torque bracket 4 mm, 2x m4x6
7	MDR mounting axis Hex 11, M12x1,75	14	Module Mounting holes M8x1,25

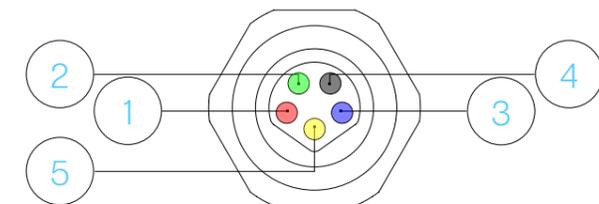


Connection Specifications

Motor Connector

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- 1. 24 V / 48 V | Red | 0.34 mm²
- 2. Direction | Green | 0.25 mm²
- 3. GND | Blue | 0.34 mm²
- 4. Error/ Pulse | Black | 0.25 mm²
- 5. Speed | Yellow | 0.25 mm²



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Example application: Merge Application

AS Roller Divert and Merge Modules are used to feed product into mainstream by means of connected conveyors under and an angle.

AS Roller Modules

AS Dual Controllers



From Creators for Creators



Required Components and Modules

		Information	Specifications
1	ASRM	Roller Module	Transport weights up to 35 kg @ 1.25 m/s
2	ASRDM	Roller Divert and Merge Module	Transport weights up to 35 kg @ 1.25 m/s
3	ASD2448	Dual motor controller	2x motor 6x I.O. 1x Power in 2x Emergency

AS Roller Divert and Merge Module

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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