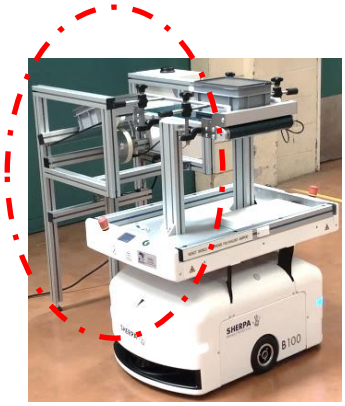
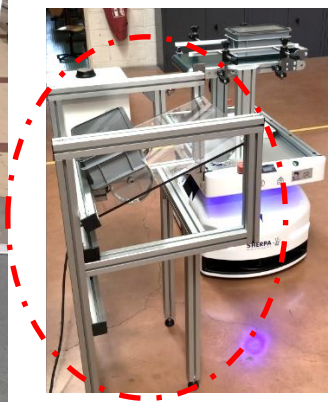
AMR020

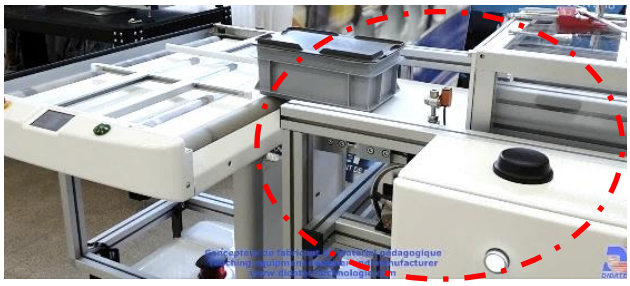
AMR INFEED ADAPTER KIT











TRAINING APPLICATIONS

- **Activities involving the integration of a technical solution at the conveyor inlet of an existing training machine (for filling, inspection, packaging, etc.), to supply an ongoing production process using our latest-generation versatile AMR100 Autonomous Mobile Robot.**
- **Numerous mechanical adjustments to suit your machine dimensions and the products to be transferred.**
- **Maintenance of an industrial system (mechanical and electrical components).**
- **Configuring a Wi-Fi communication unit and an IO-Link encoder, correctly positioning optical sensors, etc.**

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Illustrations are for reference only.

AMR020

OPERATING PRINCIPLE

The AMR020 kit is a fully self-contained industrial system that connects our versatile AMR100 robot to an existing machine without modifying the machine.

It offers numerous mechanical adjustments to suit:

- The different types of products (plastic bins, boxes and flat-bottomed parts of various shapes) to be transferred directly from the conveyor on our versatile AMR100 robot to your machine's conveyor.
- The dimensions and height of your conveyor; the height and width of the conveyor on our AMR100 robot can be adjusted accordingly.

It features:

- A configurable encoder with a measuring wheel, mounted on a spring-loaded arm and positioned against the underside of your conveyor, to enable product delivery when the conveyor runs at the required speed.
- Diffuse-reflective or retro-reflective optical sensors to check that the AMR100 robot is correctly positioned relative to your conveyor and that the product has been delivered onto it.
- A Wi-Fi communication unit for communication with the AMR100 robot.

Its robust design makes this equipment ideal for educational use.
Its anodised aluminium frame provides excellent strength and great flexibility for installation on your premises.
This equipment complies with the European Machinery Directive.

This equipment can be used on its own or with other compatible equipment in our range (see the final section of this document).

Illustrations



Technical specifications

1. Modular frame to suit the dimensions of your machine.
2. Optional polycarbonate plate to receive products delivered by the AMR100 robot when the AMR020 kit is not used at your machine's inlet.
3. Electrical enclosure with isolator and indicator light.
4. Height-adjustable encoder positioned against the underside of your conveyor, with measuring wheel and spring-loaded arm.
5. Optical sensor checking that the AMR robot is correctly positioned at the inlet of your conveyor.
6. Optical sensor with adjustable height and depth to check that the product has been delivered onto your conveyor.

Installation requirements

- Electrical supply: 230 Vac – 50 Hz – 10 A
- Electrical supply type: 1 phase + Neutral + Earth.
- Dimensions (L × W × H, mm): 800 x 600 x 1100
- Weight (kg): 40

Note: For installation by our team, all utility connections must be within 2 m of the machine.

Documentation

- Instruction manual
- Full technical documentation
- Electrical diagram
- Wi-Fi communication unit program
- CE certificate of conformity

Compatible additional equipment

- Gravity accumulation roller conveyor with 32 mm pitch for transferring flat-bottomed objects. – Ref : AMR010
- Fixed workstation made of anodised aluminium profiles, tailored to your environment. – Ref : AMR015
- Complete kit enabling the AMR100 robot to collect products from the conveyor outlet of your existing machine. – Ref : AMR050
- Versatile Autonomous Mobile Robot equipped with a conveyor with adjustable height and width. – Ref : AMR100

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