SUMMIT
PLASTICS AUTOMATION

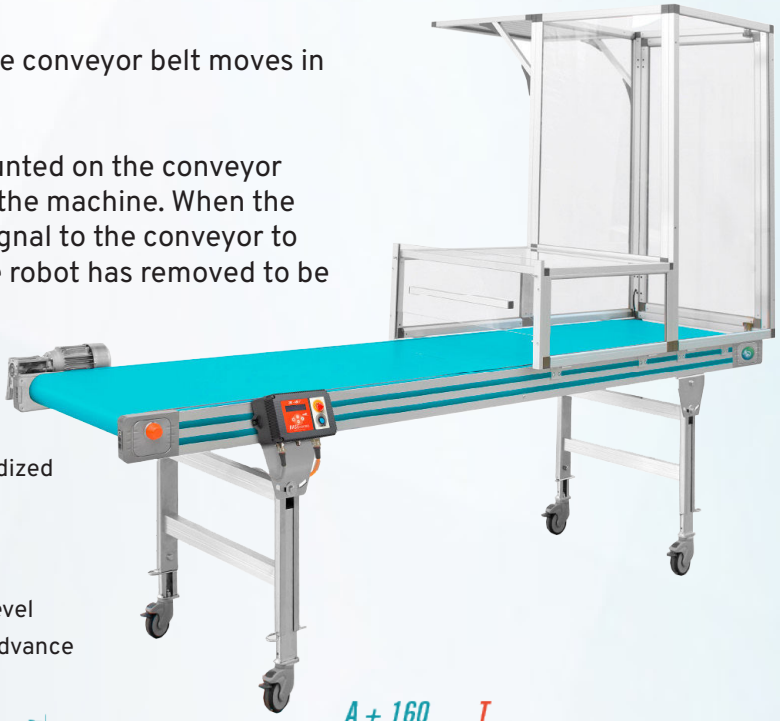
MB Conveyors

Robot Take Out Conveyors

Robot-Assisted Flat Conveyor

Conveyors and robots are often integrated so that the conveyor belt moves in an intermittent or indexed manner.

A signal from the robot is sent to a control panel mounted on the conveyor when the robot is about to pick part from the tool in the machine. When the panel receives the signal, it will then send another signal to the conveyor to move the belt forward sufficient to allow the part the robot has removed to be placed on the belt.

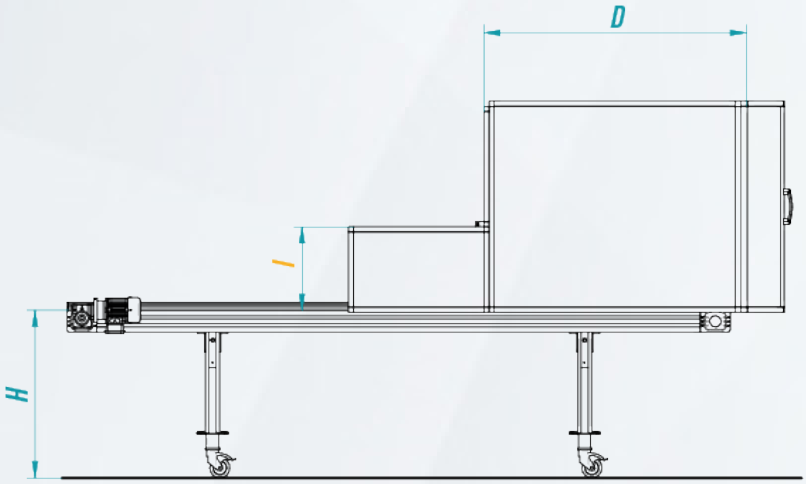


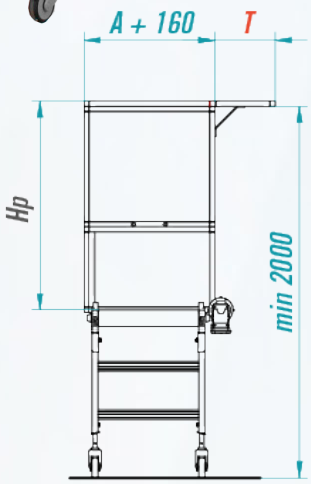
Main characteristics of a Standard Robot Guard:

- Made of structural aluminium profile, 45 × 25 mm section, anodized
- Panels in 5mm thick transparent Polycarbonate

Standard equipment:

- Opening rear door protected by micro-switch
- Exit tunnel from robot lowering area, h 500 mm from belt level
- Protection roof in case robotic arm releases the product in advance





D	I	T	Hp
min 500 mm	min 200 mm	min 200 mm	min 500 mm
max 2000 mm	max 800 mm	max 800 mm	max 1500 mm

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STANDARD ELECTRICAL SYSTEM

PULSE FUNCTION:

- The robot releases the product on the conveyor and sends a voltage-free A/C signal to the MB SKILL CONTROL panel.
- The panel starts the conveyor for the set Start time.
- When the Start time ends, the conveyor stops and waits for the next signal from the robot.

FEEDER FUNCTION:

- The robot releases the product on the conveyor and sends a voltage-free A/C signal to the MB SKILL CONTROL panel.
- The panel runs the conveyor for as long as the signal from the robots lasts.
- When the signal from the robot terminates, the conveyor stops and remains at a standstill until the next signal is received.

Robot Assisted Conveying Line

- The product deposited by a robot is collected and conveyed to the accumulation/control/packaging point.
- The legs of the first conveyor are a characteristic feature, if required they allow the second conveyor to be positioned under it, significantly reducing the footprint of the system.

PA Robot with Customised Guard

- The system has brackets for fastening to the floor and a telescopic chute that collects sprues released by the robot and channels them towards the granulator for recovery.
- The guard is complete with 4 sliding doors for inspection purposed, all protected by micro-switches.

PA Robot with Metal Mesh Guard

- Use of metal mesh instead of polycarbonate is infrequent, since the visibility inside the robot put-down area becomes sensibly reduced with respect to polycarbonate. However, the solution acquires something more as to sturdiness', thus protection capability.
- The metal mesh can be galvanised or painted yellow.

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