PRODUCT INSPECTION
Simplified

A&D Inspection

100% Inspection, the process by which producers inspect every single product before it leaves their facilities, often at multiple points during production.

CHECKWEIGHING | METAL DETECTION | X-RAY
100% INSPECTION
A&D Inspection
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We believe 100% of products should be inspected, 100% inspection at various stages of production saves time and reduces error. It also reduces the risk of costly chargebacks, fees, and even lawsuits or expensive recalls.

Inspection throughout stages of production helps in the identification of hazards or non-conforming products that can pose risk at various points. Finding those contaminants or deformities early in the process can save on rework, product/packaging materials, etc.

Checkweighers

AD-4961A

If product giveaway and fill is your concern, checkweighers are an excellent solution. Our range of checkweighers are modular, easy to incorporate into your existing line, have a small footprint, and are efficient with the ability to process up to 400 pieces per minute! Pair with a rejector to automate the rejection process.

Product Families

	AD-4961A-600-1224	AD-4961A-2KD-2035	AD-4961A-6K-3050	Heavy Duty Custom Checkweighers	EZI-Check Dynamic & Gravity Rollers
Capacity	600 g	500 g / 2000 g	6000 g	up to 150 kg	30 / 60 / 150 kg
Resolution	0.01 g	0.01 g / 0.1 g	0.1 g	Custom	10 g / 20 g / 50 g
Conveyor Belt Length	W 120 mm L 240 mm	W 120 mm L 350 mm	W 300 mm L 500 mm	L up to 1200mm	W 450 mm L 600 mm
Product Length	L 22-120 m/min	L 30-300 m/min	L 80-450 m/min	L up to 1000mm	Custom
Conveyor Belt Speed	15-120 m/min	15-120 m/min	10-80 m/min	Custom	Custom
Max Throughout	400 pcs/min	320 pcs/min	145 pcs/min	Custom	Custom
Line Height	710-860 mm	710-860 mm	720-860 mm	Custom	Custom
Dust / Water Resistance	IP65	IP65	IP65	Custom	Custom
Standard Deviation	600g / 0.25g	2kg / 0.5g	6kg / 1.0g		

* Custom frames / plinths can be made for taller lines.

Metal Detectors

In facilities with metal machinery and risk of metal contamination, our metal detectors can detect ferrous, non-ferrous and stainless steel pieces as small as 0.2 millimeters that's smaller than a grain of sand! These metal detectors are stainless steel and wash down rated for easy cleaning and maintenance.

AD-4976

Product Families

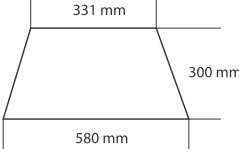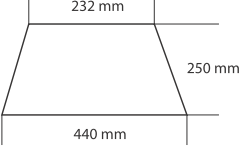|	AD-4976-3510	AD-4976-3517	AD-4976-3525	AD-4976-4517	AD-4976-4525
Aperture	350 x 100 mm	350 x 170 mm	350 x 250 mm	450 x 170 mm	450 x 250 mm
Pass Height	80 mm	150 mm	230 mm	150 mm	230 mm
Max Conveyor Speed	50 m/min	50 m/min	50 m/min	50 m/min	50 m/min
Carrying Load	5 kg	5 kg	5 kg	10 kg	10kg 20 m/min
Line Height	623-963 mm	623-963 mm	710-860 mm	710-860 mm	710-860 mm
Dust and Water Resistance	IP66	IP66	IP66	IP66	IP66

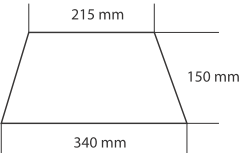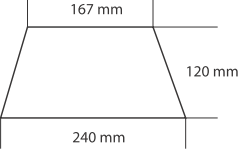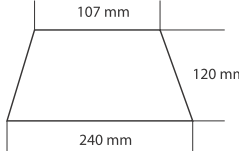* Custom frames / plinths can be made for taller lines.

X-ray

AD-4991

Implement this smart inspection system, the ProteX X-ray series can be programmed to work specifically for your products. Features like masking, missing components and misshaped product detection and identify a variety of contaminants including bone, plastic, metal and glass come standard.
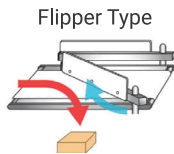
Product Families

	Conveyor width	System length	Conveyor height	Max. X-ray power output	Conveyor belt speed	Beam diagram (mm)	Max. power consumption
AD-4991-6030	600 mm	1200 mm	720-860 mm	300 W (75 kV_4 mA)	10-30 m/min	331 mm / 300 mm / 580 mm	Approx. 1.3 kVA *1
AD-4991-4530	450 mm	1000 mm	720-860 mm	300 W (75 kV_4 mA)	10-40 m/min	232 mm / 250 mm / 440 mm	Approx. 1 kVA *1
AD-4991-3530	350 mm	800 mm	720-860 mm	300 W (75kV_4mA)	45 m/min	215 mm / 150 mm / 340 mm	Approx. 1 kVA *1
AD-4991-2515	250 mm	800 mm	720-860 mm	150 W (50kV_3mA)	70 m/min	167 mm / 120 mm / 240 mm	Approx. 1 kVA *1
AD-4991-2510	250 mm	800 mm	720-860 mm	100 W (50kV_2mA)	45 m/min	107 mm / 120 mm / 240 mm	Approx. 1 kVA *1

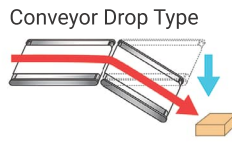*1 The maximum power consumption when a Rejector is connected.

Rejectors

Rejectors should play an integral role in your production line. When a product like a lipstick, bottle of pills, cupcakes, or a piece of meat does not pass inspection, a rejector triggers and bad product is automatically removed from the line.
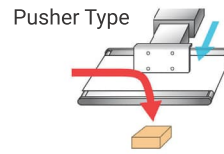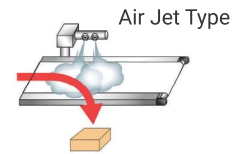
Types of Rejector:

Flipper Type Conveyor Drop Type Pusher Type Air Jet Type

Flipper Type
AD-4981 Series

Arm swings to automatically reject non-conforming products off the conveyor. Most versatile of the sorting methods and is ideal for boxes, tall bags and cases.

Model	AD-4981-2057	AD-4981-2570	AD-4981-3585
Conveyor Belt Width	200 mm	250 mm	350 mm
Screening capacity*1	120 pcs/min	100 pcs/min	80 pcs/min
Conveyor Belt Speed	15 to 120 m/min	10 to 80 m/min	10 to 50 m/min
Air supply*2	0.5 Mpa 0.2 NL/time Φ6 mm Polyurethane tube		0.5 Mpa 0.4 NL/time Φ6 mm Polyurethane tube

Conveyor Drop
AD-4982 Series

Non-conforming products are automatically rejected down the conveyor by the movement of the conveyor. Suitable for thin bags and sheet-like materials.
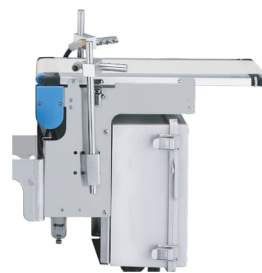
Model	AD-4982-2035	AD-4982-2540	AD-4982-3550
Conveyor Belt Width	200 mm	250 mm	350 mm
Screening capacity*1	150 pcs/min	100 pcs/min	60 pcs/min
Conveyor Belt Speed	15 to 120 m/min	10 to 80 m/min	10 to 50 m/min
Air supply*2	0.5 Mpa 0.3 NL/time Φ6 mm Polyurethane tube		0.5 Mpa 0.9 NL/time Φ6 mm Polyurethane tube

Pusher Type
AD-4983 Series

Non-conforming products are pushed off the conveyor. Most suitable for boxes or tall bags.

Model	AD-4983-3050
Conveyor Belt Width	300 mm
Screening capacity*1	60 pcs/min
Conveyor Belt Speed	10 to 80 m/min
Air supply*2	0.5 Mpa 2.6 NL/time Φ8 mm Polyurethane tube

Air Jet Type
AD-4984 Series

Non-conforming products are pushed off the conveyor. Most suitable for boxes or tall bags.

Model	AD-4984-1246	AD-4984-2046
Conveyor Belt Width	120 mm	200 mm
Screening capacity*1	400 pcs/min	320 pcs/min
Conveyor Belt Speed	15 to 120 m/min	
Air supply*2	0.5 Mpa 2.4 NL/time Φ10 mm Polyurethane tube	

*1 Actual screening capacity is dependent on the shape and/or the condition of the screened item and/or environment of the installation room.
*2 Please prepare compressed air with an air tube (polyurethane tube) to be connected to the filter regulator of the Rejector.

Moisture Analyzers

Moisture analyzers provide a quick and easy confirmation that contents are within manufacturing specifications- a critical component to product quality

Legal for Trade Scales

IP Rated and dust proof; our flexible scales adapt to a variety of environments.

The sanitary construction is wash down safe. Implement an easy to use traffic light system that is also legal for trade. Our use our compact scale that has 5000 hours of continuous use on one set of batteries!

Service Simplified

Ensure equipment performance, maximum uptime, and peace of mind with a service plan.

Just like any other equipment, inspection systems need care and maintenance to function properly. Around the world, A&D Inspection installations inspect over 50 million units per day – that adds up to a lot of wear and tear.

Because metal detectors, checkweighers, and x-ray inspection units are so critical to protecting your customers and your brand, we recommend that your equipment be regularly serviced every 5,000 hours of use.

Think of service for your inspection equipment like oil changes and new tires for your car – they help your equipment run more smoothly (and for longer) than if you were to put maintenance off. Maintenance is also significantly more cost effective – and budget-friendly – than dealing with emergency repairs and downtime of a neglected system.

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