

# Dymond Series

Minebea Intec

2023/03/22

## Features



The Dymond Series of X-ray inspection systems is extremely versatile. Featuring 4 models it is able to cover the majority of applications for inspecting packaged products. With belt widths up to 800 mm it is ideal for multi-lane applications of up to 8 traces.

- Extremely high level of detection sensitivity with low energy consumption
- Reliable detection of a wide range of foreign objects for your packaged products
- From large to small: the perfect solution for every product size
- Easy and intuitive operation by teaching in the products
- Hygienic design, following EHEDG principles featuring sloped surfaces and curved edges allowing easy inspection and cleaning, resulting in considerable time and cost savings
- A wide range of standard possibilities for ensuring product integrity and quality including checking completeness, determining product mass and determining compartment mass
- Covering belt widths from 200 mm up to 800 mm
- 15" color touchscreen display

## Specification

Specification name	Specification contents	Specification contents2	Specification contents3	Specification contents4
Item	Dymond 40	Dymond 80	Dymond 120	Dymond 160

ミネバアミツミ株式会社

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X-ray power	70 kV, 1.2 mA	70 kV-1.2 mA 80 kV-2 mA(optional)	80 kV, 2 mA	90 kV, 3.5 mA
Detector resolution	0.4 mm	0.8 mm 0.4 mm(optional)	0.8 mm	0.8 mm
Belt speed range(with drum motor)	10 to 49 m/min、 10 to 73 m/min (optional)	10 to 49 m/min、 10 to 73 m/min (optional)	10 to 49 m/min、 10 to 73 m/min (optional)	10 to 49 m/min、 10 to 73 m/min (optional)
Approvals		CE, UL/ CSA		CE, UL/ CSA
Safety locks	SIL 3 Category IV PL e, magnetic			
User interface	15-inch touchscreen	15-inch touchscreen	15-inch touchscreen	15-inch touchscreen
Operating temperature	+5°C to +40°C with air cooling / +5°C to +30°C without air cooling	+5°C to +40°C	+5°C to +40°C	+5°C to +40°C
Machine cooling	500 W air cooling (optional with Nema4X / IP65)	500 W air cooling (optional with Nema4X / IP65)	500 W air cooling (optional with Nema4X / IP65)	500 W air cooling (optional with Nema4X / IP65)
Relative air humidity(no condensation)	20% to 90%, no condensation			
Digital outputs	4 available	4 available	4 available	4 available
Digital inputs	7 available	7 available	7 available	7 available
USB port	Yes	Yes	Yes	Yes
Network connection	Ethernet	Ethernet	Ethernet	Ethernet
Compressed air	5.5 to 6.9 bar			
Radiation safety	FDA CFR 21 part 1020.40			
International protection class	IP34 IP65 (Optional) IP69K(on request)	IP34 IP65 (Optional) IP69K(on request)	IP34 IP65 (Optional) IP69K(on request)	IP34 IP65 (Optional) IP69K(on request)
Electrical supply	230 V AC ± 10% (standard) / 190 to 240 V AC 50/60 Hz	230 V AC ± 10% (standard)		230 V AC ± 10% (standard) / 190 to 240 V AC 50/60 Hz
Conveyor height	800-999 mm	800-999 mm	800-999 mm	800-999 mm
Max. throughput(depending on product length)	80 m/minute	40 m/minute or 80 m/minute* depending on detector	40 m/minute	40 m/minute
Max. power consumption	16A	16A	16A	16A
Weight	450kg	500kg	600kg	680kg
Options	Remote control, Barcode reader, Acoustic signal emitter, Service contracts,Extended warranties, Separation and fill level monitoring,Air pressure monitoring, Lateral	Remote control, Barcode reader, Acoustic signal emitter, Service contracts,Extended warranties, Separation and fill level monitoring,Air pressure monitoring, Lateral	Remote control, Barcode reader, Acoustic signal emitter, Service contracts,Extended warranties, Separation and fill level monitoring,Air pressure monitoring, Lateral	Remote control, Barcode reader, Acoustic signal emitter, Service contracts,Extended warranties, Separation and fill level monitoring,Air pressure monitoring, Lateral

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guides, Safety guards

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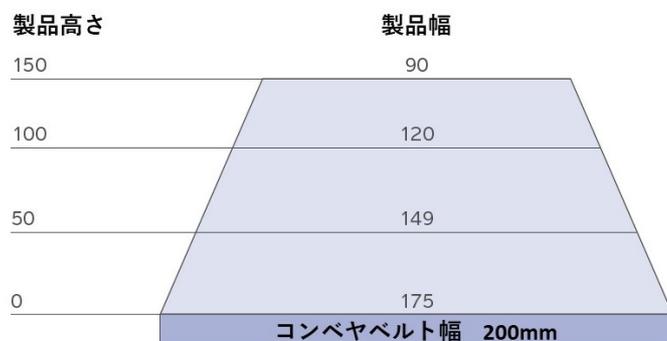
guides, Safety guards

## Table of P/N

Parts No.	Catalog data
DymondSeries	<a href="#">DS_Dymond_en.pdf</a>

## Possible customer product dimensions

### Dymond 40 Possible customer product dimensions



### Dymond 80 Possible customer product dimensions



### Dymond 120 Possible customer product dimensions



# Dymond Series

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コンベヤベルト幅 600mm

## Dymond 160 Possible customer product dimensions



[Click here to visit the website of Intec Germany.](#)