

Advanced NDT system for blade inspection

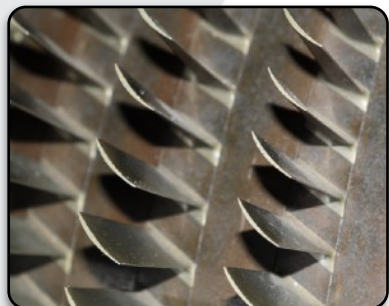
Dxbox-R1



[Website](#)

APPLICATIONS

Engineered for precision work, the **Dxbox-R1** is purpose-built for blade inspection up to **450 kV** and delivers powerful performance.



KEY FEATURES

Precise manipulation

The system features a 6-axis robot with a 10 kg (22 lbs) allowing for optimal positioning trajectory.

Tools rack

The robot operates a **wide range of part-specific tools** and moves parts using a high-performance pneumatic gripper with a secure ball-and-pin locking system. Designed for both standard and specialized tasks, the robot uses fixed jaws for common parts and a universal gripper to adapt on demand—picking up special jaws directly from the work table. Ability to interface an unlimited number of tools.

Efficient (un)loading

The system includes a **rail-mounted drawer** for easy tray (un)loading and handling. Just pull it out, place the tray between the brackets, and slide it back in. An inductive sensor ensures the cart is correctly aligned with the positioning pin for safe, accurate operation.

Easy learning

By entering the first and last blade position data manually, the system is able to automatically determine the locationsof all the others on the tray.

Dual access

The unit has **two doors**: a front door for loading parts and a left side door for maintenance. The maintenance door is manual and locked when closed to prevent accidental opening.



Dxbox-R1 SPECIFICATIONS*

X-ray generator	Up to 450 kV
Flat panel detector	Up to 43 x 43 cm Up to 17 x 17 inches
Detector - Pixel size	100 µm
Robot - Number of axes	6 axes
Robot - Max. Load	10 kg 22 lbs
Robot - Gripper	Pneumatic coupler
Max. part diameter	Ø 20 cm 8 inches
Max. part height	20 cm 8 inches
Max. part weight	20 kg 44 lbs
Doors	Front - Loading Left side - Maintenance
Max. load tray	45 kg 99 lbs
System dimensions	296 x 215 x 275 cm 116 x 84 x 108 inches
System weight	16 tons - 17,6 U.S tons

*Other configurations available. Contact us for more information.



Maestro SOFTWARE

Includes all **Maestro** features such as 3D Real Time visualisation, anti-collision functions and full automatic inspection based on the part.

Comes with **Maestro Drive**, enabling data sharing and archiving capabilities, either on-premises or in the Cloud.

- Store, share and access to all of your files on any of your **Maestro** wherever you are.
- Ensures an excellent traceability thanks to the image database.
- Offers long-term archiving and cold storage options.
- Features an advanced search engine: sort and retrieve any image based on part number, serial number or any customer-specified criteria.
- Allows users to share work instructions from **Maestro System**.

Dxbox-R1 OPTIONS

- Equipped with a camera for QR code reading on the part. Additional options such as Optical Character Recognition are available.
- Collimator with/without filters.

275 cm - 108 inches

