

Y.Access 100. Versatile overhead-suspension X-ray system



Y.Access 100 is an X-ray inspection system that uses an overhead-suspension scanning manipulator in radiation-shielded rooms.

Available in multiple configurations (160 to 450 kV) from a single-carriage system for film to a dual carriage system, including tilt and pivot-mounted systems equipped with an image intensifier or digital flat-panel detector, Y.Access 100 is an ideal solution for inspecting larger parts in the pipe, vessel, automotive or aerospace industries.

While based on standard modules, each system is individually designed to meet your specific needs in order to provide the most versatile solution inside a new or existing bunker shielded against X-rays.

It can be mounted on the ceiling, the wall or on a special floor-mounted steel frame for easy installation on uneven walls and to avoid unnecessary wall-bearing loads.

YXLON. The reason why.

- Very versatile with free floor space, even for large parts
- Customized design based on standard modules
- CNC for teaching reproducible inspection programs
- Wireless remote control



Y.Access 100

The X-ray inspection system is based on a versatile scanning manipulator functioning from overhead equipped with one or two extra-wide belt suspension systems on a transverse carrier.

Depending on the size of the bunker, the cooler and generator can be placed separately on the suspension to avoid lengthy high-voltage cables. The extendable manipulator can be controlled inside the exposure room via local pendant control or optionally via wireless remote control to assist in lining up an optimal exposure.

Single-carriage solution

The single-carriage solution is designed to expose films conveniently. The X-ray tube can be lowered to 300 mm above floor level and provides a tilt of +45° to -90°. For instance, films placed on the floor are exposed at -90°.

Dual-carriage solution

The dual-carriage solution is suitable for film exposure, radioscopy or digital radiography.

The X-ray tube and detector are mounted on separate belt suspension systems providing a variable FDD over a wide range. In the case of radioscopy or digital radiographic operation, the axes are interlocked and move parallel to each other using merely one joystick.

The detector can be tilted to $\pm 30^\circ$.

For special operation, e.g. to expose film, this interlock can be bypassed.

The optional motorized tilt for detector and X-ray tube ensures a fixed alignment.

Since the suspensions are mounted on jointly used rails, they can be placed randomly to enable the scanning of complex patterns. The suspensions are equipped with interactive anti-collision devices.



Dual-carriage solution with pivoting suspension

The pivoting suspension allows even more flexible imaging without repositioning the inspection item. The pivot angle for a standard configuration is $\pm 30^\circ$.



Technical data

Speed range 0 - 150 mm per second
0 - 20° per second

Optional items for Y.Access 100

Steel frame

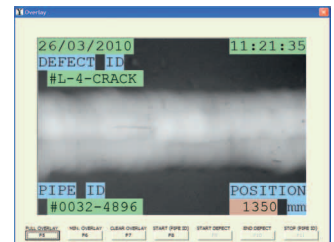
A rugged steel construction that eases installation and is recommended primarily when the ceiling or walls are not completely even or sturdy enough to hold the system's weight.



Overlay image

The optional overlay software is ideal for laying text on top of the digital image. It can be installed on the Y.IMAGE 2500/3500 computer and is 100% customizable.

Both positioning data able to be grabbed directly from the CNC or network and the software itself utilize short-cut keys to run macros for easy access.



CN control

Anywhere from 4 to 12 axes can be controlled via a CNC computer equipped with automatic, learn and teach modes. They provide excellent opportunities for fully automatic control of the entire system, including X-ray settings.

Further options of the CN control allow a fixed FDD while tilting the beam, as well as a virtual beam pivot point.

CCTV

Up to 4 cameras installed inside the bunker for purposes of efficiency and safety.

Wireless remote control

Local wireless remote control allows convenient system control inside the radiation-shielded room for easy and precise adjustment.



Digital imaging and Y.HDR-Inspect

Y.Access 100 is designed to operate using digital flat-panel detectors, Y.IMAGE x500 software and Y.HDR-Inspect.

Miscellaneous optional features

- door control
- mount construction
- radiation-safety package in compliance with local standards