## Standard Delivery Scope

- · Radiation protection cabinet, complete with charge opening, service door, and dual safety switch
- Manipulator
- ERESCO 160 MFR3 X-ray unit
- VISTALUX 7-CCD X-ray image intensifier system (incl. 7" image intensifier and 44 cm (17") b/w monitor)
- System control electronics
- Control console with integrated ERESCO MF3 digital control
- Monitor support
- 1 set connecting cables

#### Options

- Water-cooled version of ERESCO MFR3 for high temperature environments
- ISOVOLT 160 HS X-ray unit with following choice of X-ray tube:
- ISOVOLT 160 M2/0.4-0.4 dual focal spot X-ray tube, each 1.00 mm (EN 12543) [0.4/0.4 (IEC 336)] capable of 4 mA at 160 kV
- ISOVOLT 160 MM2/0.2 single focal spot X-ray tube of < 0.5 mm (EN 12543) [0.2 (IEC336)] capable of 2 mA at 160 kV
- VISTAPLUS image enhancement system
  - Image enhancement functions
  - Pre-programmed process routines
  - Image archiving
  - Network capable
  - Measurement functions
  - XVGA Monitor

#### The DP 150.10 is designed to meet or exceed domestic and interational standards and regulations, including, but not limited to:

- ISO 9001
- UVV
- VBG 4
- German X-Ray Regulations RöV in their updated version
- CFR 1020.40
- CE Konformität
- VDE 0100
- DIN EN 60204 (VDE 0113)
- DIN EN 954-1
- DIN EN 60529 / IEC 529
- DIN 54113

#### Application

The DP 150.10 is a compact design selfcontained real-time X-ray unit suitable for the inspection of small parts.

The DP 150.10 inspection system satisfies by good basic-functionality, low floor space and easy operation. The excellent

price-performance ratio of this turnkey system for basic inspection tasks makes it 

Mobile control console

an ideal machine for process control and

small parts checking. Transportation and installation at the production site is easily done using standard lifting gear.

## Features

- 5 Axis manipulator
- Maximum workload 10 kg / 22 lbs

- ± 30° tilt capability
- Hinged access door for ease of loading

- Compact design to minimize floor space Easy installation or relocation
- Minimal maintenance required

**Radioscopic Inspection System** 

#### X-ray



# **SEIFERT DP 150.10**

 Motorized in 4 axes with joy stick control Inspection diameter up to 300 mm / 11.8" \*) Inspection height up to 300 mm / 11.8"

• Lead glass viewing window (300 x 300 mm)

- Manufactured under ISO 9001 certified Quality Management System
- \*) The penetrable inspection volume varies with the total material thickness and material density



#### Description

The DP 150.10 is a self contained realtime X-ray inspection system designed to meet current international radiation safety standards including DIN, EN 954-1, CFR 1020.40.

Its compact design and built in safety features allow for placement nearly anywhere within the manufacturing process by forklift truck.

The DP 150.10 features sturdy steel/ lead/steel construction. The loading door is large enough to allow easy access for

loading of the manipulator. A full size hinged service door is provided for ease of maintenance.

The five (5) axes manipulator consists of four (4) motorized axes with fixed speed setting and one manually adjustable axis (geometrical magnification). The motorized axes are controlled by joysticks conveniently placed on the control console.

An ERESCO 160 MFR3 air-cooled X-ray unit with small focal spot of 1.0 mm according to standard EN12543 (0.5

IEC 336) and a Beryllium window is the integrated X-ray unit used in the standard DP 150.10.

The DP 150.10 features the VISTALUX imaging system, which includes a high resolution X-ray image intensifier coupled to a CCD camera with wide dynamic range. Display is by a 44 cm / 17" highresolution b/w monitor, which provides superior imaging capabilities.



### **Technical Data**

#### Manipulator

Horizontal motion (Tx) Vertical motion (Tz) Tilt (Rx) Rotation (Rz) Manual setup axis (Ty)

#### Workpiece

Maximum dimensions Maximum weight

#### Cabinet

Dimensions Weight Lead glass window Maintenance door

#### **Control console**

Dimensions Weight

#### X-ray unit (standard)

Tube voltage Tube current Focal spot size Inherent filtration

#### **Power requirements**

Supply voltage

Supply power Power supply fuse (customer-provided)

#### Travel 150 mm / 5.9" 300 mm / 11.8" ± 30° n x 360°

Maximum 780 mm / 30.7"

300 x 300 mm / 11.8" x 11.8" (diameter x height) \*) 10 kg / 22 lbs

See drawing/layout plan Approximately 1550 kg / 3400 lbs 300 x 300 mm / 11.8" x 11.8" 1010 x 1260 mm / 39.8 x 49.6 "

500 x 600 x 320 mm / 19.7" x 23.6" x 12.6 " (W x D x H) Approximately 70 kg / 154 lbs

5 kV to 160 kV, adjustable in 1 kV increments 0.5 mA to 10 mA, adjustable in 1 kV increments EN 12 543 : 1.0 mm (corresponds to 0.5 per IEC 336) 0.8 mm Be

3 NPE 400/230 V ± 10%, 50/60 Hz 3-phase, grounded neutral, star connected system (optional 3-phase isolation transformer) approx. 2 kVA max. 25 A







Dimensions DP 150.10



Layout DP 150.10



960 / 37.8"