

**Crawler package**

# **EVO 200P & 300P**



**c•met**  
x-ray

## **Built to last It's robust and reliable**

Designed and built in Denmark; the EVO systems are comprised of the best components and assembled with the utmost care - making them reliable, long lasting and a sound investment. They are fitted with a high quality metal ceramic X-ray tube and the robust composite casing now protects all vital parts even better. The systems meet the IP65 standard, making them fully operational in dusty and wet conditions.

## **Smarter workflow It's light-weight and easy to handle**

The EVO 200P & 300P tube heads are designed for inline inspections of pipes and vessels when integrated in a pipeline crawler. The advanced controller board takes care of the X-ray operations and is fully controlled through the RS232 interface, which also supports relay of operational and diagnostic information. The EVO system is based on high efficient switch mode technology, which minimizes the energy consumption and thus extends the endurance of the pipeline crawler's battery pack. A broad temperature range from -20°C to +50°C makes the EVO systems reliable and ensures smooth operation even in extreme environments.

## **High performance Due to its technical capabilities**

Built to meet the highest international safety standards, each unit is individually tested and measured for safety and accuracy. The EVO 200P & 300P crawler package features 750 W constant potential X-ray power for high penetration - making it well suited for all heavy duty inspection jobs where ultimate performance is required.

## DC/DC Converter

The compact, high efficient and easy to integrate DC/DC converter module works between 90 – 150 VDC input voltage, without any impact on the X-ray output stability.

## Controller Board

The advanced controller board ensure full operational control of the X-ray system including automatic run-in procedure, X-ray control, X-ray monitoring and diagnostic handling. The run-in is automatically calculated and intelligently managed by the controller board, in order to ensure an energy efficient and safe run-in procedure for stable and reliable operation. The controller board uses a RS232 interface for communication.

## RS232 Protocol

The X-ray system can be controlled trough the RS232 interface, including options like start and stop of X-ray system, adjustment of kV and mA, X-ray status monitoring and diagnostic status.

## Integration

Documentation and support for integration is available from Comet.

## Specifications

### EVO 200P Crawler Package

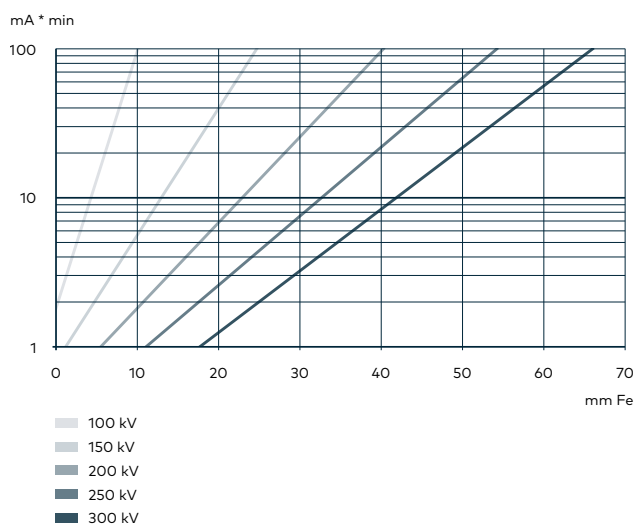
Weight	28 kg
Height	665 mm
Tube head housing	ø 205 mm
Focal spot size EN 12543	0.4 x 4.0 mm
High voltage adjustment	40 - 200 kV
mA adjustment	0.5 - 5.0 mA
Max. X-ray power	750 W
Beam angle	38° x 360°
Leakage radiation max	2.0 mSv/h
Environment	IP65
Temperature range	-20°C to +50°C
Continuous exposure 35°C, max kV / max mA	Min. 1 hour
Required battery voltage	90 – 150 VDC
Required auxiliary voltage	+24 VDC
Communication interface	RS232

### EVO 300P Crawler Package

Weight	36 kg
Height	804 mm
Tube head housing	ø 222 mm
Focal spot size EN 12543	0.5 x 5.5 mm
High voltage adjustment	50 - 300 kV
mA adjustment	0.5 - 4.0 mA
Max. X-ray power	750 W
Beam angle	38° x 360°
Leakage radiation max	5.0 mSv/h
Environment	IP65
Temperature range	-20°C to +50°C
Continuous exposure 35°C, max kV / max mA	Min. 1 hour
Required battery voltage	90 – 150 VDC
Required auxiliary voltage	+24 VDC
Communication interface	RS232

## Fe exposure diagram

700 mm FFD / D7-type + Pb / D = 2,0



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