

**CONSTANT-POTENTIAL  
PORTABLE X-RAY UNITS  
RPD-250**



The RPD-250 portable industrial X-ray NDT unit is designed for radiographic quality inspection of weld joints in pipelines, installation and building structures, ferrous and non-ferrous castings and forgings both in field and in the plant floor environment.

The unit has automated self-diagnostics and X-ray tube training routines as well as all necessary electronic protection circuits ensuring its reliable operation.

The RPD-250S constant-potential X-ray unit is designed specifically for working in severe field environment, including Far North.

The unit's blocks are sealed and operable under conditions of rain, wet snow, dirt, and dust. Control of RPD-250C operation modes is performed only from a remote control unit.



Additionally, the unit can be equipped with a stand, a tube attachment fixture, and a carriage for traveling inside the pipe (for the panoramic version of the unit.)

Included in the delivery are:

- X-ray emitter block (XEB, monoblock)
- Power and control block (PCB)
- Remote control unit (RCU)
- Cable set
- Shipping cases

As an option, removable protection housing is supplied.

Phone: 00852-23341000

Fax: 00852-21428041

E-mail: isaac@asiatrinity.com

Address: Suite A, 10th Floor, High Win Building, 47 Hoi Yuen Road, Kwan Tong, Kowloon, Hong Kong



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**SPECIFICATION**

Version	RPD-250	RPD-250P	RPD-250S	RPD-250SP
Anode voltage (kV) in 1 kV steps	100...250			
Anode current (mA) in 0.01 mA steps	0.5...5			
Exposure time (sec) in 1 sec steps	1...998			
Focal spot size (mm)	3 x 3	3.5 x 1.5	3 x 3	3.5 x 1.5
Working radiation pattern	40° x 60°	40° x 360°	40° x 60°	40° x 360°
Maximum anode power (W)	1000			
Monoblock weight (w/o coupling and cap) (kg)	33			
Power and control block weight (kg)	7		9.8	
Removable lead housing weight (w/cap) (kg)	17			
Monoblock dimensions (w/handles) (mm)	L 240 x 1090			
Monoblock dimensions (w/o handles) (mm)	L 180 x 965			
Power and control block dimensions (mm)	470 x 405 x 215			
X-ray tube type	1.8 BPK11-300	1,5 BPK 14-300	1.8 BPK 11-300	1,5 BPK 14-300
Working temperature (°C)	-10...+40		-40...+40	
Max. power consumption (W)	1400 (single-phase 220 V, 50 Hz)			

The unit has an isowatt characteristic.

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