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Magnetic Control X-Ray Pipeline Crawler

Zhong Yi brand pipeline crawler is a kind of magnetic controlled pipeline robot with X ray generator of constant potential installed on it for check welding of pipeline. Running in a wall or pipeline; detect internal defects and flaws through radiography technology. Pipeline Crawlers move steadily inside the pipe with speed of up to 18m/min to the distance of up to 5 kilometers and provide the efficient inspection of the pipeline.

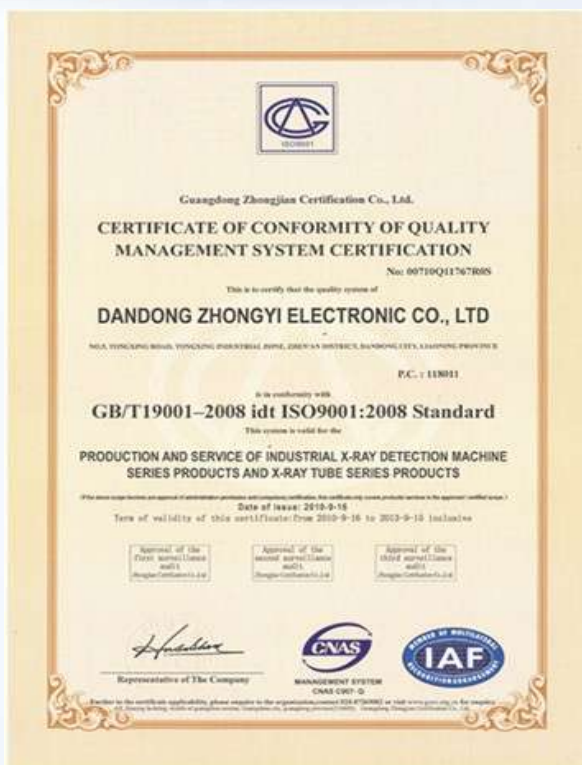


- ★ Military motor and PLC working with Panasonic battery pack to supply strong power for climbing big slope Max. 40 °, meanwhile good working in high-temp working site .
- ★ Safety feedback setting to avoid equipment losing in the pipeline.
- ★ Magnetic signal adjustable for different diameter and thickness.
- ★ Pipeline crawler working normal without effect by welding equipment and pipeline coating.
- ★ Moving speed up to 18m/min, distance up to 5 kilometers.

Model	ZY-4C	ZY-3C	ZY-12C	ZY-10C
Locating System	Magnetic Medium Control			
Position Precision	± 3 mm			
Moving Distance	5 km			
Available OD(inch)	8-14	12 ~25/28	14-47	20~47/60
Crawler Dimension (mm)	1490×170×150	1300×190×200	1065×190×182	1350×240×350
Crawler Weight	30 kgs	45 kgs	35.5kgs	50 kgs
Lead Acid Battery	7Ah	12Ah	20 Ah	17Ah
Battery Weight	28 kg	44 kg	15.5 kg	63 kg
Max Climbing Slope	20 °	30 °	30 °	40 °
Turning Radius	$\geq 10D$	$\geq 10D$	$\geq 10D$	$\geq 7D$
Drive Type	Two Wheels	Two Wheels	Four Wheels	Four Wheels
Full Charge Exposure	40-50 min	60 min	110 min	90 min
Max. Crawling Speed	8m/min	12m/min	15m/min	15m/min
X RAY UNIT				
Model	XXHA-1605	XXHA-2005	XXHA-2505	XXHA-3005
Max. Penetrate	15mm	23mm	30mm	35mm
X-Ray Working MIN Diameter	219mm(8inch)	273mm(10inch)	355mm(14inch)	500mm(20inch)
Generator Dimension	$\Phi 160 \times 890\text{mm}$	$\Phi 180 \times 950\text{mm}$	$\Phi 230 \times 970\text{mm}$	$\Phi 280 \times 1070\text{mm}$
Generator Weight	15kg	18kg	33kg	39kg
Generator Voltage	100kV	100-200kV	150-250kV	200-300kv
Focus Size	1.0×2.5mm	1.0×2.5mm	1.0×5.0mm	1.0×6.0mm
Radiation Angle	360 ° × 40 ° Glass Tube			
Exposure Time	0-5 mins			
Anode Target	Cone target			
Operate Temp.	-20°C~+75°C			
Insulation	SF6 gas			
Humidity	$\leq 90\%$			

NO.	ITEM	QTY
1	Pipeline Crawler	1
2	Magnetic Controller	1
3	Magnetic Signal Receiver	1
4	X Ray Unit	1
5	Battery Pack	1
6	Battery Pack Charger	1
7	Signal Receiver Charger	1
8	Extend Shaft	1
9	Lifting Slide Plate	1
10	Lifting Support Plate	1
11	X-Ray Unit Holder	1
12	Magnetic Receiver Support	2
13	Charging Cable	1
14	Connecting Cable	1
15	Accessory Kit	1
16	Certification	1
17	Operation Manual	1
Extra Free Spares		
1	Pipeline Crawler Wheels	6
2	Main Board	1
3	Motor Drive	1
4	Connecting Cable	1

Certification



Certificate - Сертификат - 證明書 - 證書 - 證明書 - 證明書

Evaluation of Compliance

No. 0T121203/DZE1851



Certificate's Holder: **Dandong Zhongyi Electronic Co., Ltd.**
No. 5 Tong Xing Rd. Zhen An Distr. Dandong, China

Product: **X Ray Flaw Detector**
Model(s): **XXQ-1005, XXQ-1605, XXQ-2005, XXQ-2505, XXQ-3005, XXQ-3505, XXH-1005, XXH-1605, XXH-2005, XXH-2505, XXH-3005, XXH-3505, XXHA-1605, XXHA-2005, XXHA-2505, XXHA-3005, XXHA-3505, XXG-1605, XXG-2005, XXG-2505, XXG-3005, XXG-3505, ZY-3C, ZY-10C, ZY-4C**

Directives: **2006/95/EC Low Voltage
2004/108/EC Electromagnetic Compatibility**

Standards: **EN 61010-1:2010, EN 61326-1:2006**

Remark: This document has been issued upon a review of the data sheet and of the Technical Construction File. The apparatus is considered to meet the required data of the above standards, therefore to fulfil the requirements of the above listed Directives. This Document is only valid for the equipment and configuration described and in conjunction with the test data detailed above. Nevertheless the Manufacturer is not allowed to perform the necessary activities before issuing the Declaration of Conformity. In case the apparatus is modified or the appliance will be equipped with Accessories not included in the Manufacturer's Operator Manual, it is recommended to get in touch with Ente Certificatione Macchine S.R.L. for a valid extension.

Date: **08/09/2012**



Ente Certificatione Macchine S.R.L.

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Battery Charger



Battery Pack



Connecting Cable



Controller Charger



Crawler Body



X-ray Generator



Generator Holder



Magnetic Control System



Wheels



www.zhongyi-ndt.com

www.pipeline-crawler.com