



Data sheet

ATEX Zone 0 Robot

Tank cleaning from a safe distance

THE REMOTE-CONTROLLED ATEX ZONE 0 ROBOT IS SPECIALLY SUITED FOR APPLICATIONS IN THE OIL, GAS, CHEMICAL AND PETROCHEMICAL INDUSTRIES AND ENHANCES SAFETY DURING TANK CLEANING.

- Safe transport of pollutants.
- Operation in external cabin.
- Cleaning of tanks with various residual products (liquid, semi-solid, solid).
- Complies with safety standards for application in the ATEX Zone 0.
- Emissionfree tank cleaning with mobile vapor combustion unit.
- Single renting possible.

ROBOT	DESCRIPTION
Type	ATEX Zone 0 Robot
Material	Stainless steel, 1.4404 (EN 10027-2), AISI 316
Volume flow (min. – max.)	200 Nm³/h – 1,200 Nm³/h
Certification	ATEX Zone 0, 1G IIB T4
Standards	EN 13463-1:2009, EN13463-3:2005, EN 13463-5:2011, EN 13463-6: 2005, EN 13463-8:2003
Max. distance	100 m
Traction	300 Nm, determined on iron plate 10 mm thick and dirty with oil
Speed in ATEX Zone 0	1 – 10 m/min
Mud height	250 mm
Surrounding temperature	-10 °C – 50 °C
Chain links	Stainless steel, magnetic
Arm movement	35° in every direction
Arm strength	2,000 Nm

SIZE ROBOT	
Length/Width	Ca. 1,800 mm/ca. 545 mm
Elevation/height with camera extended	Ca. 400 mm/ca. 900 mm
Entry	24"/600 mm
Weight	420 kg

CAMERAS	
Type	Image transmission system
Certifications	ATEX Zone 0, ATEX directive 2014/34 EU, EMV directive 2014/30/EU
Standards	EN 50303:2000, EN 60079-0:2012, EN60079-11:2012, EN 60079-26:2007
Resolution	520 lines, analog
Lighting	Integrated LED lights, max. 235 lux

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ETS Degassing GmbH Amelinghausen (Germany, Austria, Switzerland)
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HYDRAULIC CONTROL	
Type	HAH120-2x1, 6-2x9-2x100/a
Pressure	70 – 100 bar
Max. power consumption	5 kW
Power connection	3 x 400 V, 50 Hz
Standard	Machinery Directive 2006/42/EG, EN ISO 12100, EN ISO 614-1+A1, EN ISO 4413, EN 60204-1 ED.2.
Sound	max. 80 dB(A)

AVAILABLE OPTIONS	
Additional lighting ATEX Zone 0	
Suction accessories with high-pressure water jet (NON-ATEX)	
Winter package (additional heating for the hydraulics)	
Change of chain links and use per project (rubberized, magnetic or abrasive magnetic chain links)	
Operator training on the customer's premises (2 days, transport and rental of the container including robot)	

CABIN	DESCRIPTION
Certifications	ATEX Zone 1 premium, II 2G Ex v2 IIB T3 Gb
Ambient/storage temperature	-20°C – 40°C/-20°C – 50°C
Wind speed	6 Beaufort (strong wind 10,8 -< 13,9 m/s)
Dimension during transport	L x W x H: 6,058 x 2,591 x 2,438 mm (without ventilation pipe)
Dimension after build-up	L x W x H: 6,058 x 2,438 x 6,910 mm (with ventilation pipe)
Weight	ca. 7,500 kg (incl. robot and equipment)
Number of ventilated and cooled rooms	3/2
Power	3 ~ 400 V, TN-S, 50 Hz, 40 A without fine fuse
Max./average power consumption	11.5/7.5 kW
Standards	EN 60079-0:2012+A11:2013, EN50381:2004
Video recording system	up to 4 camera connections, 1 TB storage
Control system	Industrial computer

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