



Data Sheet

ADEX Robot the KOKS ESOT System (Equipment Set for Oil Tank Cleaning)



ADEX ROBOT IS SPECIALLY DESIGNED FOR USE IN THE OIL, GAS, CHEMICAL AND PETROCHEMICAL INDUSTRIES.

- Fully automatic cleaning of tanks of various residues (liquid, semi-solid or solid).
- Remote controlled safe removal of harmful substances. The control is done from an external cabin.
- Complies with the applicable European safety standards for use in ATEX Zone 0.
- Can be used in combination with the mobile ENDEGS combustion chamber for emission-free tank cleaning.

CATEGORY	DESCRIPTION
ROBOT	
Type	ADEX Robot
Material	<ul style="list-style-type: none"> • Stainless steel, AISI 316 grade • Material no. 1.4404
Certifications	<ul style="list-style-type: none"> • ATEX Zone 0 • 1G IIB T4
Standards	<ul style="list-style-type: none"> • EN 13463-1:2009 • EN13463-3:2005 • EN 13463-5:2011 • EN 13463-6:2005 • EN13463-8:2003
Max. range	100 m
Traction force	<ul style="list-style-type: none"> • 3,000 Nm • Measured on Fe plate • Thickness 10 mm • Covered in oil
Speed in ATEX Zone 0	1 – 10 m/min
Wading depth	250 mm
Ambient temperature	- 10° C to 50° C
Tracks	Stainless steel • Reinforced with magnets and patented abrasive tracks
Arm motion	35° in any direction
Arm force	2,000 Nm
DIMENSIONS ROBOT	
Length / Width	Approx. 1,800 mm / approx. 545 mm
Height / Height with elevated cameras	Approx. 400 mm / approx. 900 mm
Man hole	24" / 600 mm
Weight	420 kg
CAMERAS	
Type	Image transfer system
Certifications	<ul style="list-style-type: none"> • ATEX Zone 0 • ATEX directive 2014/34/EU • EMC directive 2014/30/EU
Standards	<ul style="list-style-type: none"> • EN 50303:2000 • EN 60079-0:2012 • EN 60079-11:2012 • EN 60079-26:2007
Resolution	520 lines • Analogue
Lights	Integrated LED lighting • Max. 235 lux

CATEGORY	DESCRIPTION
PREMIUM TRANSPORTABLE, VENTED CABIN. (PTVC)	
Certifications	<ul style="list-style-type: none"> • ATEX Zone 1 premium • EX II 2G IIB T3
Ambient / storage temperature	- 20° C to 40° C / - 20° C to 50° C
Max. wind force	6 Beaufort (high wind 10,8 – < 13,9 m/s)
Dimensions for transport	L x W x H: 6,058 x 2,591 x 2,438 mm (without suction chimney)
Dimension at work	L x W x H: 6,058 x 2,438 x 6,910 mm (with suction chimney)
Weight	Approx. 7,500 kg (incl. robot and all accessories)
Amount / ventilated and conditioned rooms	3/2
Supply voltage / rated current	<ul style="list-style-type: none"> • 3 ~ 400 V • TN-S • 50 Hz /40 A without residual current circuit breaker
Max. / average power consumption	11,5 / 7,5 kW
Directives / norms	<ul style="list-style-type: none"> • EN 60079-0:2012+A11:2013 • EN 50381:2004
DVR recording system	For 4 camera feeds • 1 TB storage
Control system	Industrial computer enabling semi-automated cleaning program
Additional accessories	<ul style="list-style-type: none"> • Full HD TV screen 32" • 1080 px • Air conditioning and ventilation unit • Sensors for door • Overpressure • Air flow • Fire emergencies • Control panel for robot • Steel safety plates to cover the windows during transport
HYDRAULIC POWER PACK	
Type	HAH120-2x1 • 6-2x9-2x100/a
Pressure	70 – 100 bar
Max. power supply	5 kW
Aggregate connection	3 x 400 V • 50 Hz
Directive	<ul style="list-style-type: none"> • Machinery directive 2006/42/EG • EN ISO 12100 • EN ISO 614-1+A1 • EN ISO 4413 • EN 60204-1 ED.2.
Noise level (decibels)	max. 80 dB(A)



Phone +49 8403 2094 100 | info@endegs.com
www.endegs.com

