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## SYSTEMS AND CONTROL THROUGH TECHNOLOGY



UNITED ARAB EMIRATES

GERMANY

## OUR PROFILE

Through the last 35 years of experience, Pat-Kruger Systems has grown into a dedicated market leader of crane Safety and Control Systems. Pat-Kruger Systems is an international organization with offices in Netherlands, UAE, Germany and England and dealers across the world.

Pat-Kruger Systems started as a crane safety service company in 1980, provided high level safety systems, added with regular testing and maintenance special on the Heavy Duty (HD) machines.

Nowadays we do much on special projects but still from the same attitude where camera system adds a vital part in the safety chain.



### We cater to the needs for:

- Safety and Control Systems in HD application
- Offshore EX zone I & II systems
- Camera systems Ex zone I & II
- Project Rentals Solution
- Customized Solutions
- Technical Services

Pat-Kruger Systems Middle East has a certified pulling machine to test load sensors (force transducers) up to 100ton as part of other testing equipments.



Our aim is to deliver a high level safety on all types of Heavy Duty equipment to ensure the safe operation assisted by a high level of maintenance. We have to provide wide range of solutions to safety related problems.

All equipment is supported by our service team, to meet the demands of every client in On-shore and Off-shore, harbor, crane rentals, special heavy lifts and transport companies.

## OUR PROJECTS

### ON and OFF-SHORE PROJECTS (Zone I & II)

- Crane Camera Systems
- Ex (Wireless) CCTV
- Tank Gauging Systems
- Barge Jacking Systems

### SLI and CONTROL SYSTEMS FOR CRANES

- Control -SLI in the Biggest Cranes.
- SLI in Forklifts
- Other customized application for SLIs

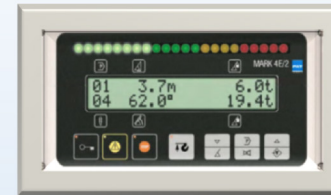
## OUR PRODUCTS

### Pan Tilt & Zoom Ex CCTV System-

A high resolution—600TV lines with white balance, for day & night applications. Combines with wide temperature range. Total Pixels 811(H) x 508(V) with 43x optical- and 16x digital zoom.

Explosion proof Pan & Tilt housing Solid SS construction IP66 and 67, supplied with sunshield option.

Ex Monitor Zone I, supports NTSC and PAL format. It has a wide temperature specifications and meets IP66 and 67.



**M4/E2** - This LMI system is for mobile and stationary cranes. It combines a "user friendly" operator set up with a compact design. The calibration can be done through menu controlled software through the operating console in EX Zone I and II.

**I2** - This type of SLI is a promising investment at the budget level. An effective solution of a Safe Load Indicator system for small and medium-sized (telescopic) cranes. It has HMI visualization and support of all standard sensor interfaces, such as CANopen, 4-20mA, and/or wireless sensors in EX Zone II.



**A2B Switch-** This switch is designed as limit switch for winches, lifting devices and cranes. Accepted as emergency limit switch.

Zone I and II



**PAT-KRUGER Load Pins** with integrated Amplifiers are to measure the actual loading by the use of customized, strain gauge equipped pins made of high grade tensile steel. Zone I and II

Alternatively, PAT-KRUGER offers a full range of different tension and compression load cells.



**Force transducers type KMD.** This sensor is able to measure push, pull or push/pull forces. Something which is unique. The sensor has an internal compensation for torsional forces, using a well proven technology over the last 50 years.

Zone I and II