



PAT



KRÜGER



PAT-Krüger
NPEX Obligatiehouders



October 2024

CONTENT



PAT-KRUGER GROUP

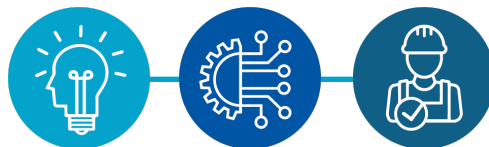
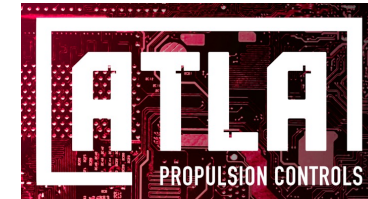
- Legal structure - updated
- We offer....
- Focus markets
- Safety and Control
- Tailor-made loadpins and loadcells

ATLA PROPULSION CONTROLS

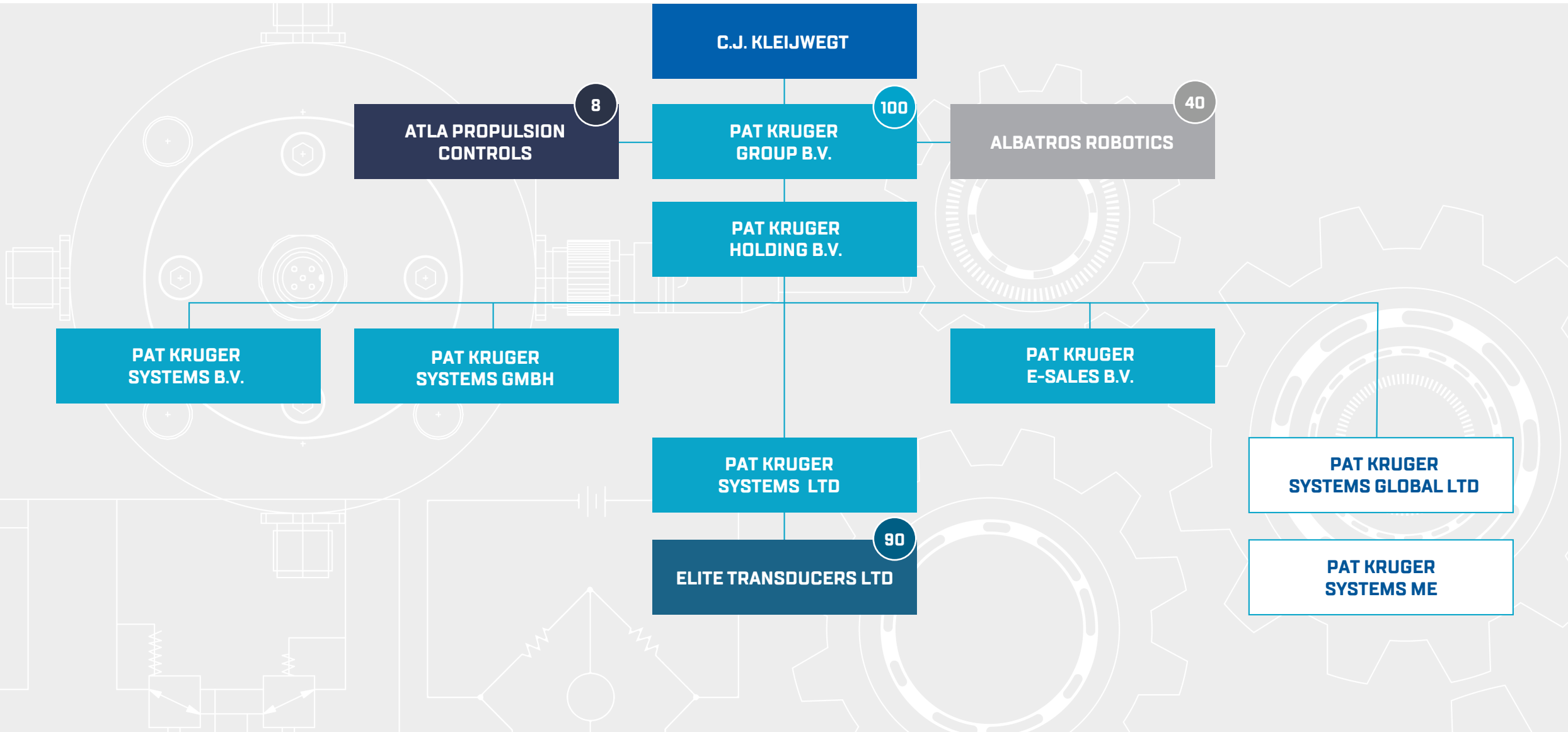
- Independent organisation
- Reduced stake from 50 to 8pct

ALBATROS ROBOTICS

- Remote and autonomous control
- First order received
- Fast growing demand for our products.



LEGAL STRUCTURE



... WE OFFER

SYSTEM INTEGRATION:

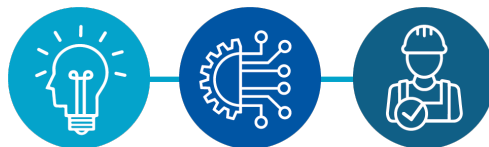
- tailormade turnkey solutions
- software applications - safety and control
- hardware fabrication and assembly

HEAVY DUTY PARTS:

- custom made force and length sensors
- large stock of spare parts

FIELD SERVICE:

- world-wide installation and maintenance
- force sensor repair and calibration
- PCB repair and software upgrades





SYSTEM INTEGRATION GLOBAL FIELD SERVICE IN-HOUSE DEVELOPMENT

INTERESTED? GO TO [PAT-KRUGER.COM](https://www.pat-kruger.com)



By combining **tailor-made sensors** with PAT-Krüger's **heavy duty controllers** and **in-house developed software**, we create easy to use and efficient systems with **low maintenance costs**.

FOCUS MARKETS

ONSHORE

Mobile cranes, Railway, Steel industry, Infrastructure construction, Biomass- and recycling plants



PORTS & WATERWAYS

STS, Forklifts, Cargo handling equipment, Shipyards, Locks, Bridges



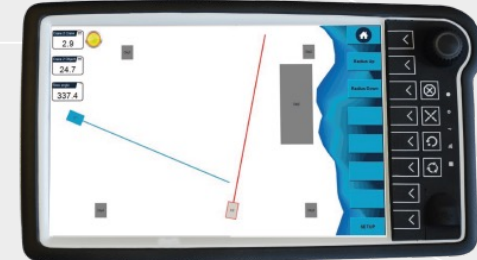
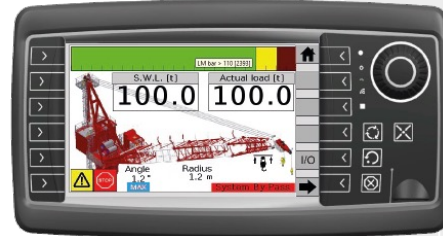
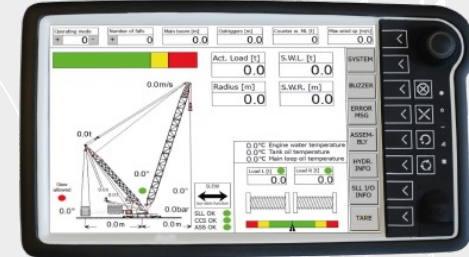
MARINE & OFFSHORE

Jack-ups, Heavy lift vessels, Dredging, Cable layers, FPSO's, PSV's, Wind farms, Fishery, Pilots boats



SAFETY AND CONTROL

- Safe load indicators
- Safe load limiters
- Overload protection
- Crane fixed objects anti-collision
- Crane to Crane anti-collision
- Crane control
- Rail excavator - rated capacity limiter
- Wireless load measurement
- Remote control
- Tank weight control



ORDER FORM TAILOR-MADE LOADPINS

Custom made loadpins.



Load

Grease way

Diam. D

30 minimal

1/2 load

1/2 load

Cable m.

D diam.	A1	A2	L1	L2	L	B	C	E	M	S	F1	F2	G	H	J	K
---------	----	----	----	----	---	---	---	---	---	---	----	----	---	---	---	---

Dimensions in mm.

Grease way: No Yes.....

Power supply: 10-30 VDC

Accuracy: <1.0%

Electr. over.: 200%

Max. over.: 500%

Protection: IP67

Temp. range: -20 +70° C

Proofload: 3x 150%

Cert. 3.1: Mat. specs.

Cert. 3.2: by:

Witnessed: by:

Company:

Approved for production:

Name:

Date:

Notes:

Weight:

Proj. no.:

Capacity:ton /KN

Diameter: mm.

Tolerance:

Material: Stainless steel

Article no.:

Serial no.:

Explosion proof: No Yes Zone.....

Output signal: 4-20mA

2.5-7.5 VDC

0-2.5 VDC (Power supply 15-18VDC)

Passive mV/V

+10 VDC

Redundant: No Yes

Conn. type: M12 SS IS PG9 1x 2x

M12 IS flange 1x 2x

Cannon 3p. male 1x 2x

Cannon 4p. male 1x 2x

PG... Cable m. 1x 2x

..... Lockplate(s) delivered by:

customer

PKS

Advice:
Diam. < 100mm. 1x lockplate
Diam. > 100mm. 2x lockplate

Load direction
One way

Push / Pull

TITLE		Loadpin t. / KN. diam mm		PAT-KRÜGER systems b.v.	
SUBJECT			Wangjan 6 - 5244 GD B-Hertogenbosch - The Netherlands Tel: +31 (0)73 6443366 Fax: +31 (0)73 6443254 info@pat-kruger.nl www.pat-kruger.nl	
DRAWN	DATE	NAME	SCALE	SIZE	DRAWINGNR.
CHECKED	06-05-2013	hr	2688
APPR.					
REV	DATE	NAME			SHEET 1 OF 1



SYSTEM INTEGRATION GLOBAL FIELD SERVICE IN-HOUSE DEVELOPMENT



By combining **tailor-made sensors** with PAT-Krüger's **heavy duty controllers** and **in-house developed software**, we create easy to use and efficient systems with **low maintenance** costs.

INTERESTED? GO TO [PAT-KRÜGER.COM](https://www.pat-krueger.com)



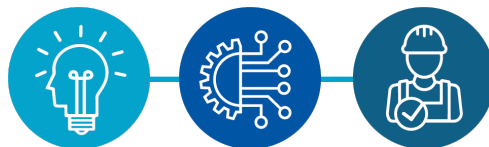
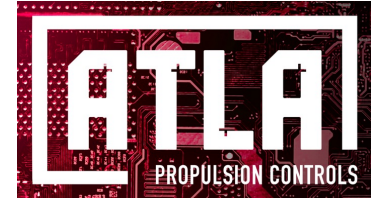
ATLANTA

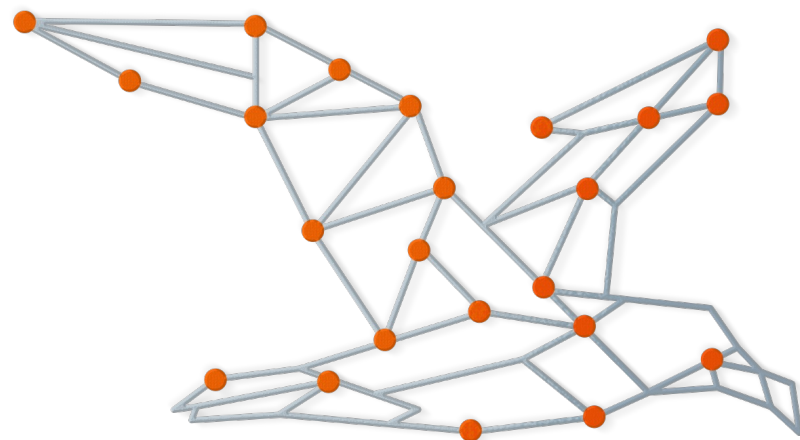
PROPULSION CONTROLS

... **STAND
ALONE**

ATLA PROPULSION CONTROLS

- **Independent operation since end 2023**
- End 2023 share stake in ATLA reduced from 50 to 8pct for Eur 320k
- ATLA still uses services from PAT; field engineers and custom-made refit solutions
- Results of ATLA now reported as dividend





ALBATROS

ROBOTICS

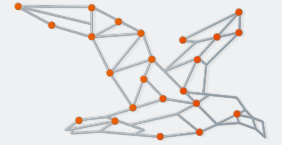
AI LEARNING NEVER EXHAUSTS THE MIND

Albatros Robotics offers:

(from small craft to survey vessels)

- remote access
- remote control
- autonomous operation

<https://albatrosrobotics.com>



Where are we today:



- First project booked for remote monitoring of dredging vessel discharge pipe and the booster stations
- Demonstration remote operation vessel in preparation as show case for potential customers in co-operation with Dutch shipyard.
- Autonomous light survey craft in portfolio
- Final preparation for “proof of concept” vessel for customer



PAT



KRÜGER



Results 2023, FC
2024 and outlook
2025

October 2023

JAAR REKENING 2023

BALANCE SHEET

		31-12-2023	31-12-2022
		€	€
Activa			
Vaste activa			
Immateriële vaste activa	1	185.555	86.657
Materiële vaste activa	2	46.119	54.807
Financiële vaste activa	3	186.964	122.904
Som der vaste activa		418.638	264.368
Vlottende activa			
Vorraden	4	2.102.225	1.649.341
Vorderingen	5	1.249.958	1.652.240
Liquide middelen	6	221.987	74.256
Som der vlottende activa		3.574.170	3.375.837
		3.992.808	3.640.205



JAAR REKENING 2023

P & L

	2023	2022
	x 1.000 €	€
Netto-omzet	7.557	4.858
Kosten uitbesteed werk en andere externe kosten	2.983	1.578
Lasten uit hoofde van personeelsbeloningen	2.485	1.635
Afschrijvingen op immateriële, materiële vaste activa en vastgoedbeleggingen	81	52
Overige bedrijfskosten	1.607	1.671
Totaal van som der kosten	7.156	4.936
Totaal van bedrijfsresultaat	401	-78
Financiële baten en lasten	-208	-202
Totaal van resultaat uit bedrijfsuitoefening voor belastingen	193	-280
Belastingen over de winst of het verlies	-85	-2
	108	-282
Aandeel in resultaat van ondernemingen waarin wordt deelgenomen	256	15
Totaal van resultaat uit bedrijfsuitoefening na belastingen	364	-267
Aandeel derden in resultaat van ondernemingen waarin wordt deelgenomen	-12	-
Totaal van resultaat na belastingen	352	-267



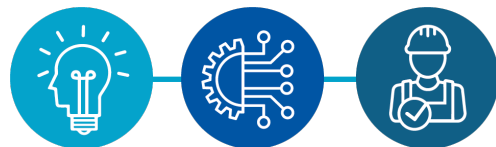
FORECAST 2024

TURNOVER FYFC

- PAT-Kruger systems FYFC eur 7,0m
- Albatros Robotics eur 0,1m

LOANS - END 2024

- NPEX eur 1400k
- Seahorse Enterprise eur 200k
- Rabobank eur 200k



OUTLOOK 2025

TURNOVER FYFC

- PAT-Kruger systems FYFC eur 7.5m
- Albatros Robotics eur 0.2m

LOANS - END 2025

- NPEX eur 1400k
- Seahorse Enterprise eur 200k
- Rabobank eur 120k





PAT



KRÜGER



PAT-Krüger
recent projects



September 2023

Spring 2024:

**Remanufacturing of
unique loadcells**

Worldwide clients

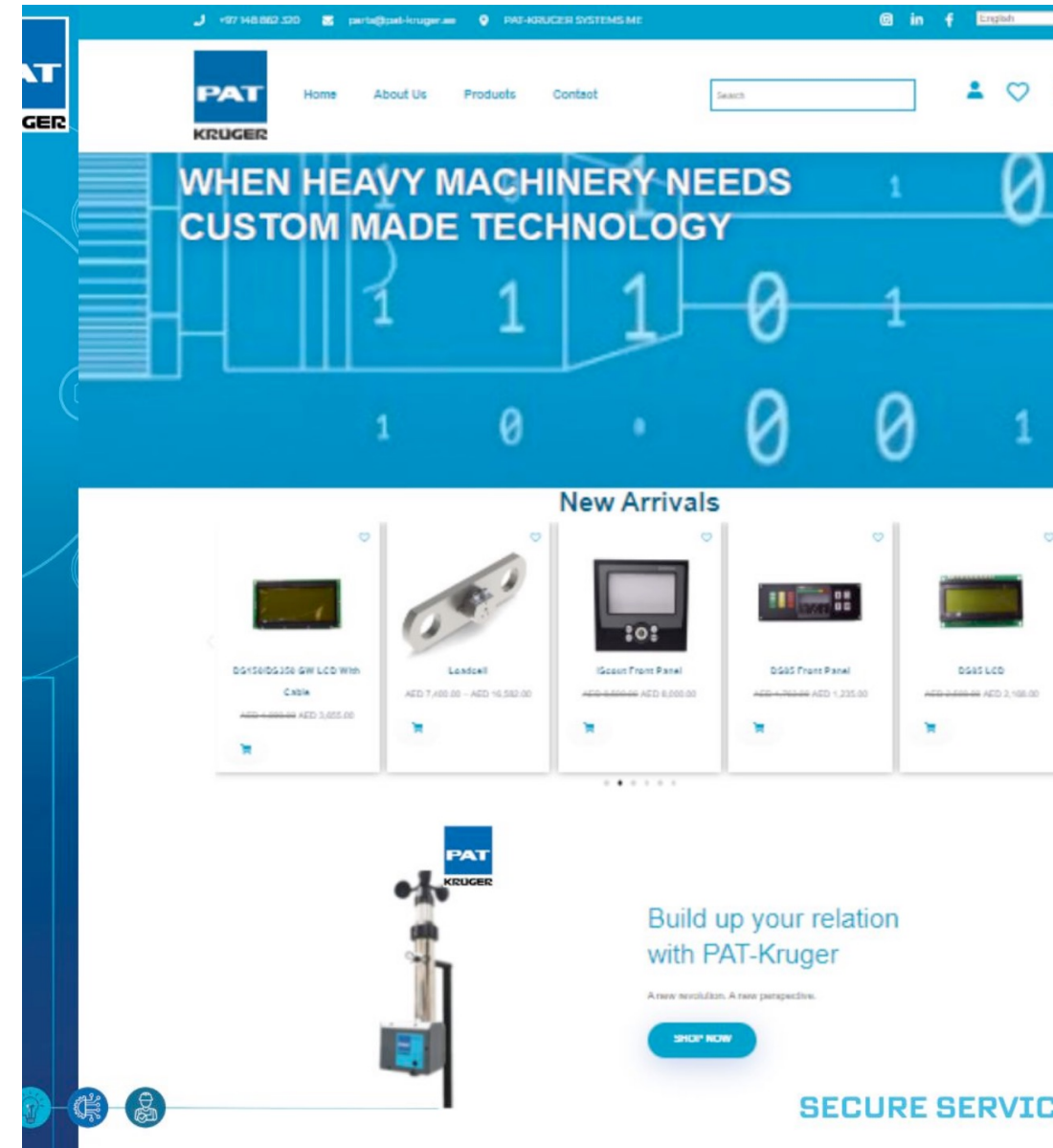


Summer 2024:

New webshop live.

Focus to sell rare and unique spare parts to connect to new (remote markets) customers.

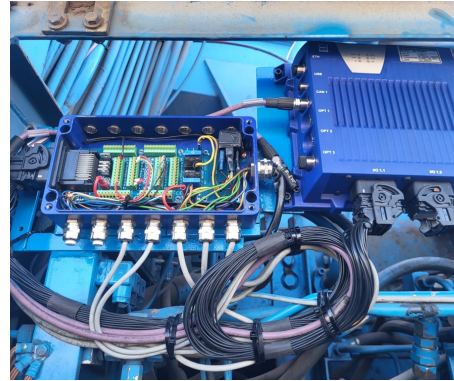
Worldwide



Summer 2024:

Installation of new DS130 SLI - safe load indicator system

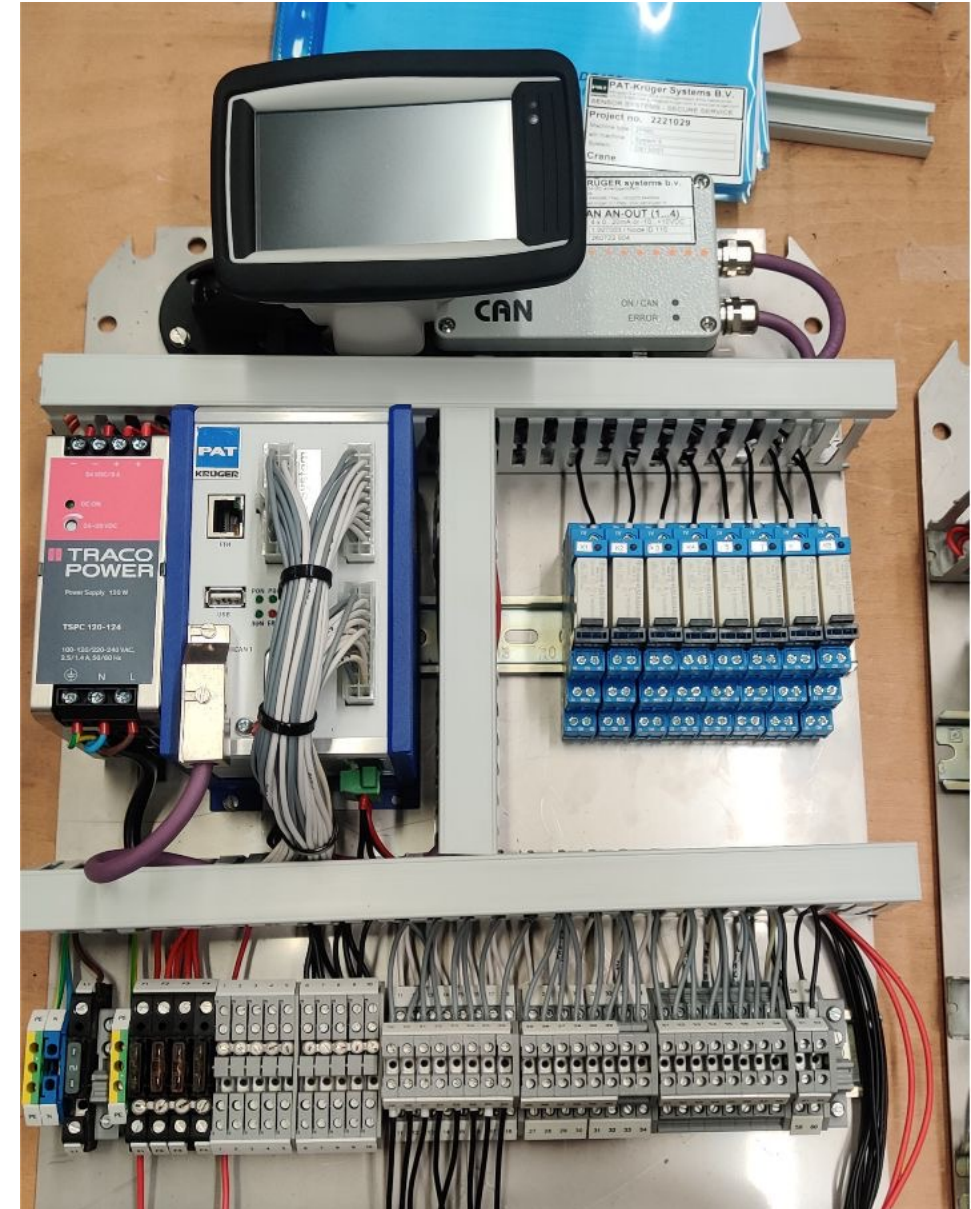
Greece



During 2024:

Repeat orders for container crane (STS) load measurement system with tailor made force sensors

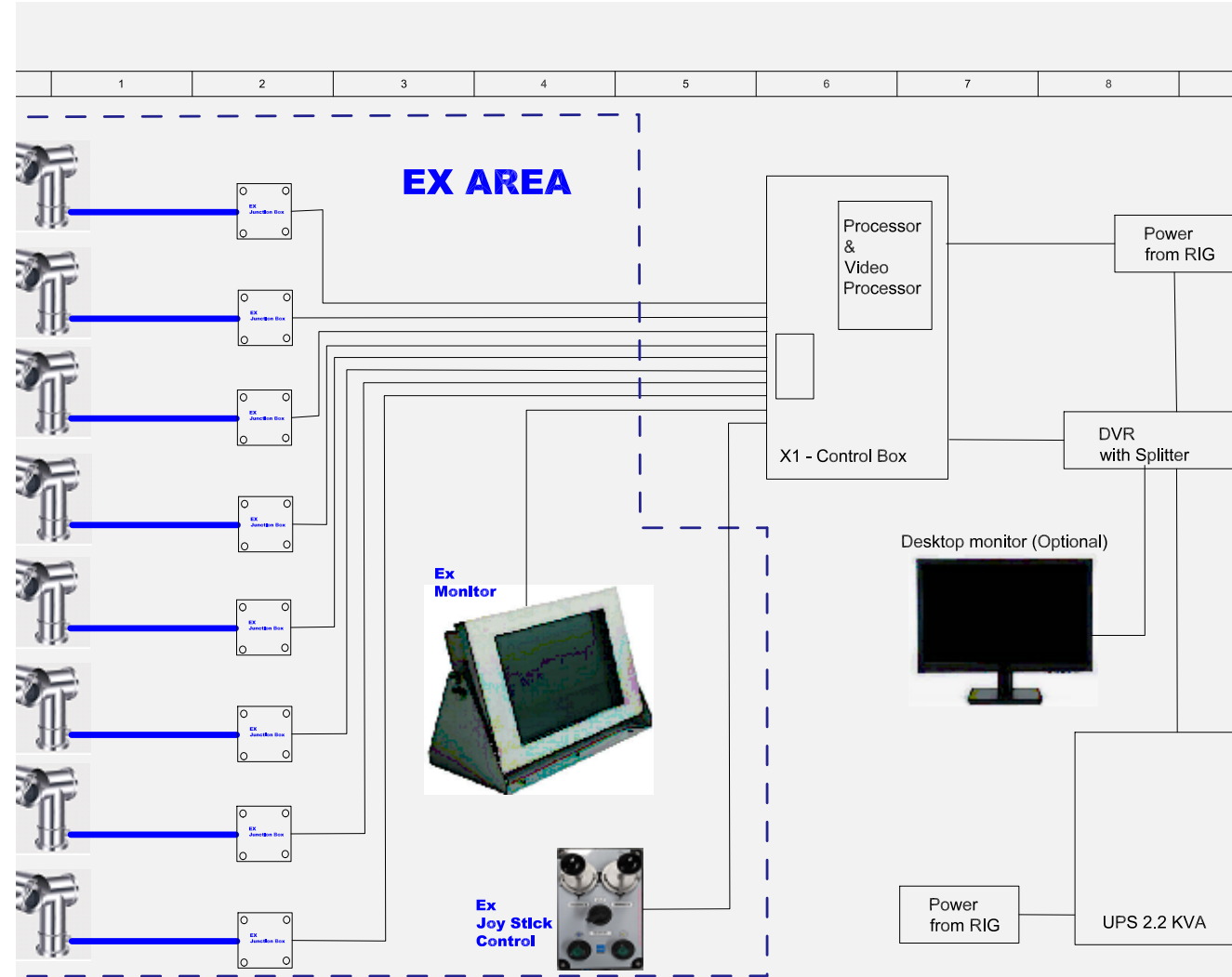
DP World/ZPMC



October 2024:

New delivery and installation of **ATEX CCTV** solutions. Service contract for existing **100 rigs**

ADNOC



Key features

- Range 0-40 m/s
- 1000m LoRa Range
- 8 Months plus battery life
- EU868 certified frequency
- Industrial grade design
- Data logging
- 10 Point calibration

Wireless Windspeed

PAT
KRÜGER



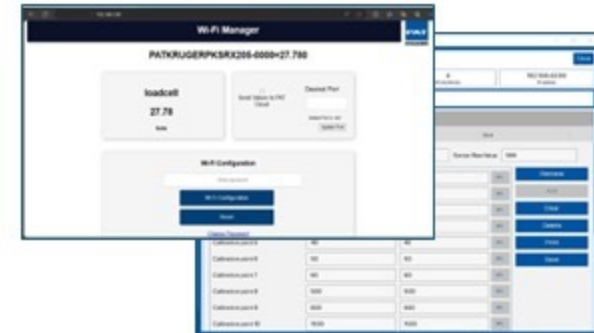
Mobile - App

- Android or IOS
- Monitoring of data
- Range 25m
- Calibration
- Datalogging
- Reporting tool



PC - desktop

- Windows software
- Telnet over WiFi
- 3rd party integration
- Range 50m
- Monitoring of data
- (remote) Calibration
- Reporting tool





FORDERN
SIE UNSERE
BROSCHÜRE
KOSTENLOS
AN



**ERHÖHUNG DER
SICHERHEIT IN DER
SCHWERLASTINDUSTRIE**
INTERESSIERT? PAT-KRUGER.COM



- Herstellung von Messachsen
- Reparatur von Messachsen
- Kalibrierungsdienstleistungen
- Integration von Schwerlaststeuergeräten
- Nutzung hauseigener Software für langlebige und robuste Systeme