

# DEMARKO MILITARY VEHICLES

ST 555-20W.M  
ST 775-20W.M





# We are ready for any mission

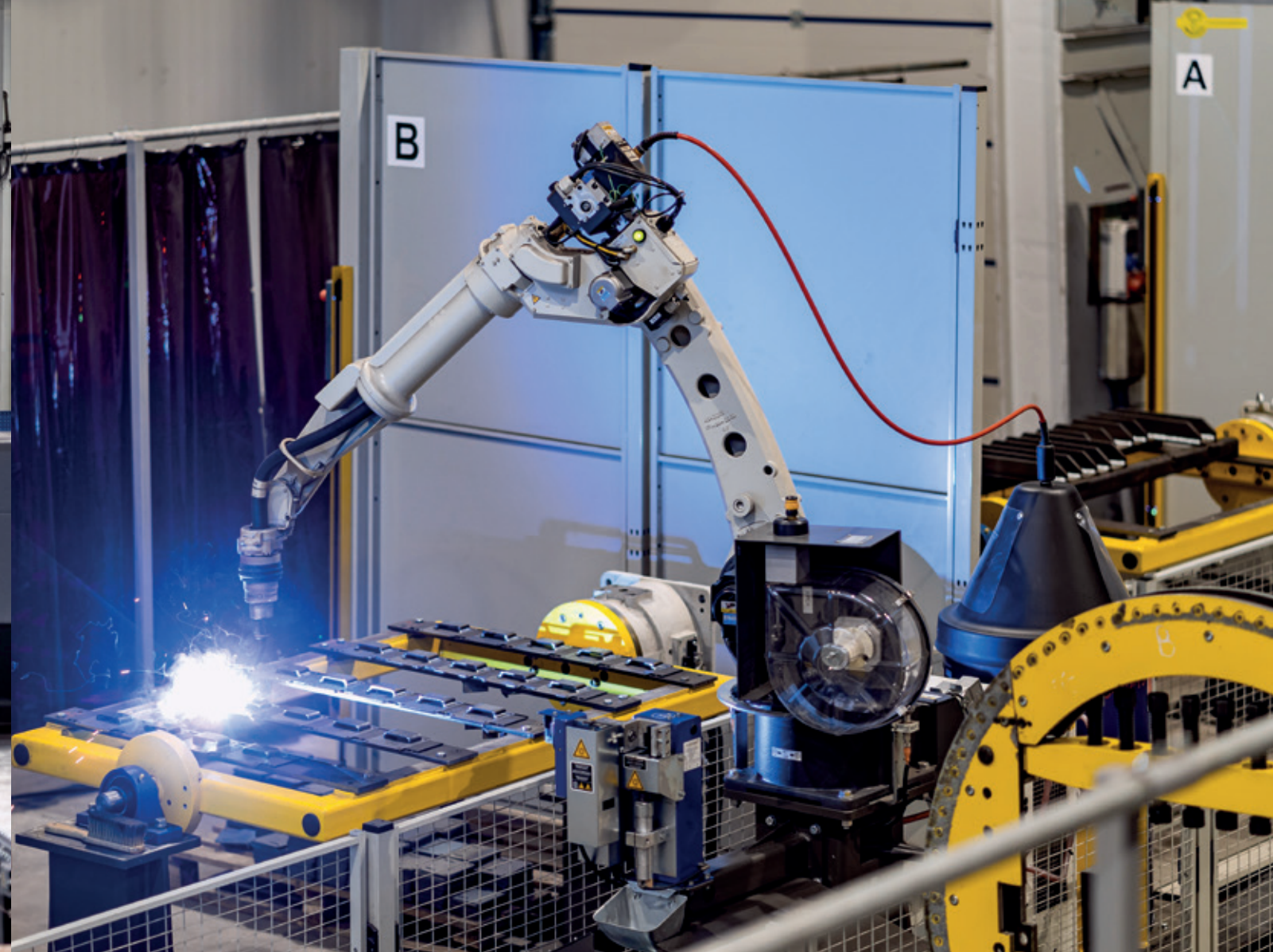


We are a family business. We've come along the path from a small workshop in Świętochłowice to production plants of over 20,000 m<sup>2</sup>. We have become a strong, stable and truly recognizable European brand.

We handle every project individually. Our customers always receive professional support and technical advice. They are provided by dedicated project managers and expert staff. We build lasting relationships with our Clients based on full trust. We provide them with stability, calm and safety. Once they share their needs with us, we want them to know we'll take care of the rest.

We know our job and we can do it well.





## Modern production solutions

We rely on optimized production processes, state-of-the-art technology and highly qualified employees. Our constantly expanding machine park currently consists of over 40 modern CNC machines. Such a rich equipment and technological background, as well as the systematic retrofitting of production stations with tools and control equipment, set the highest standards to guarantee the End User an excellent quality of our vehicles.

## Tailor-made solutions

Our experience, flexibility and well-established technical expertise allow us to offer solutions perfectly suited to any transportation task. Knowledge and expertise - from design to production, from the beginning to the end. We will provide you with the best solution tailored to your transportation task.

## Automation and robotization

The degree of automation and robotization are key determinants of the production process innovativeness. Complementing each other, they provide us with the possibility of faster, more accurate and safer production processes as well as cost optimization. The cooperation of machines with automation and software is a key element that gives employees the ability to focus on their core tasks, and guarantees clients reliable just-in-time deliveries.

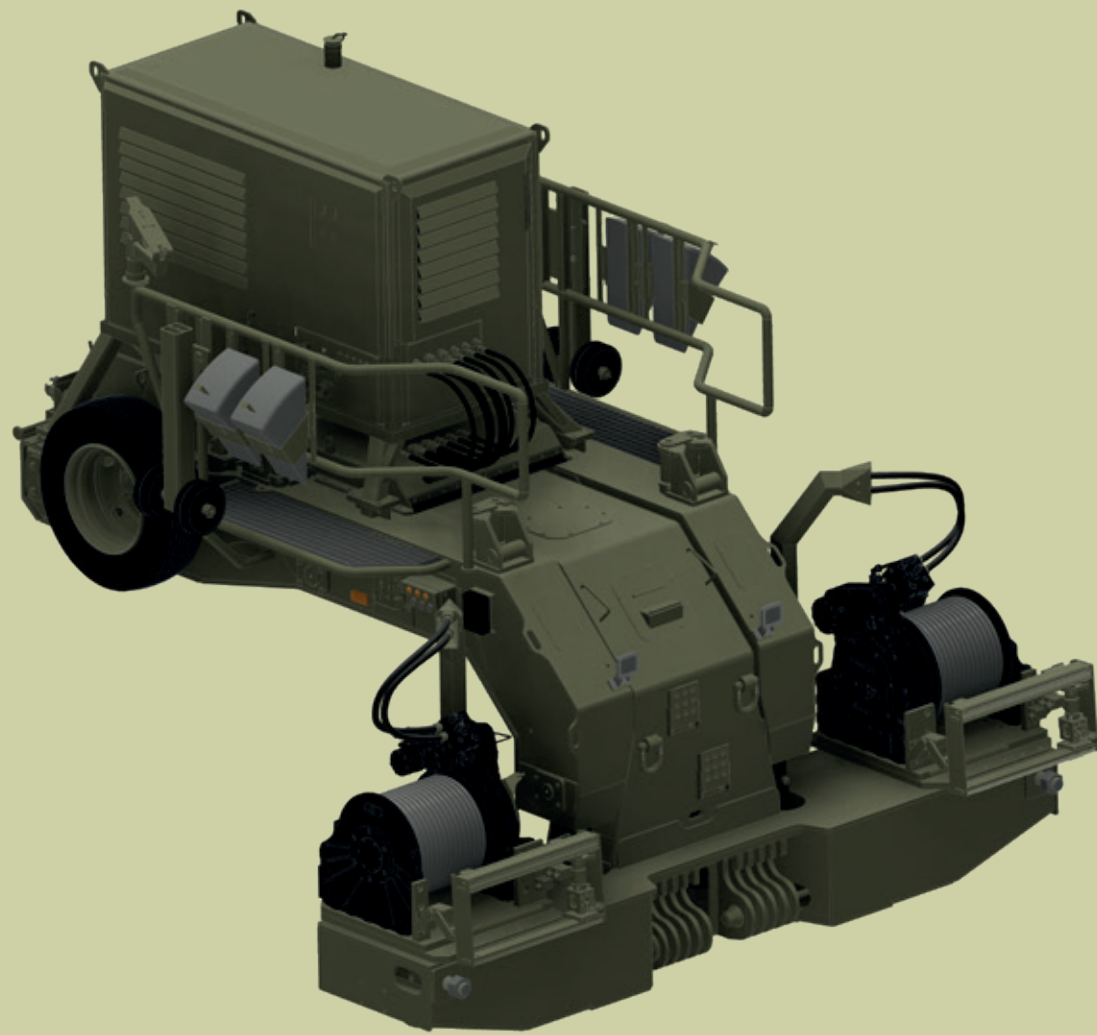
## Industry and artificial intelligence

*Internet of Things (IoT)* everything communicates with everything. It's an in-depth digital transformation and automation of production processes, covering the entire supply chain: from placing an order and delivering components for ongoing production, to shipping the goods to clients and after-sales services. The intelligent process control network contributes to significant process optimization and provides access to practically every useful information about the production process at any time and from any place. By implementing artificial intelligence solutions, we have the ability to increase the production efficiency while reducing its costs, thus we are able to respond flexibly to clients' needs.



# One-Hydra-Neck Technology™

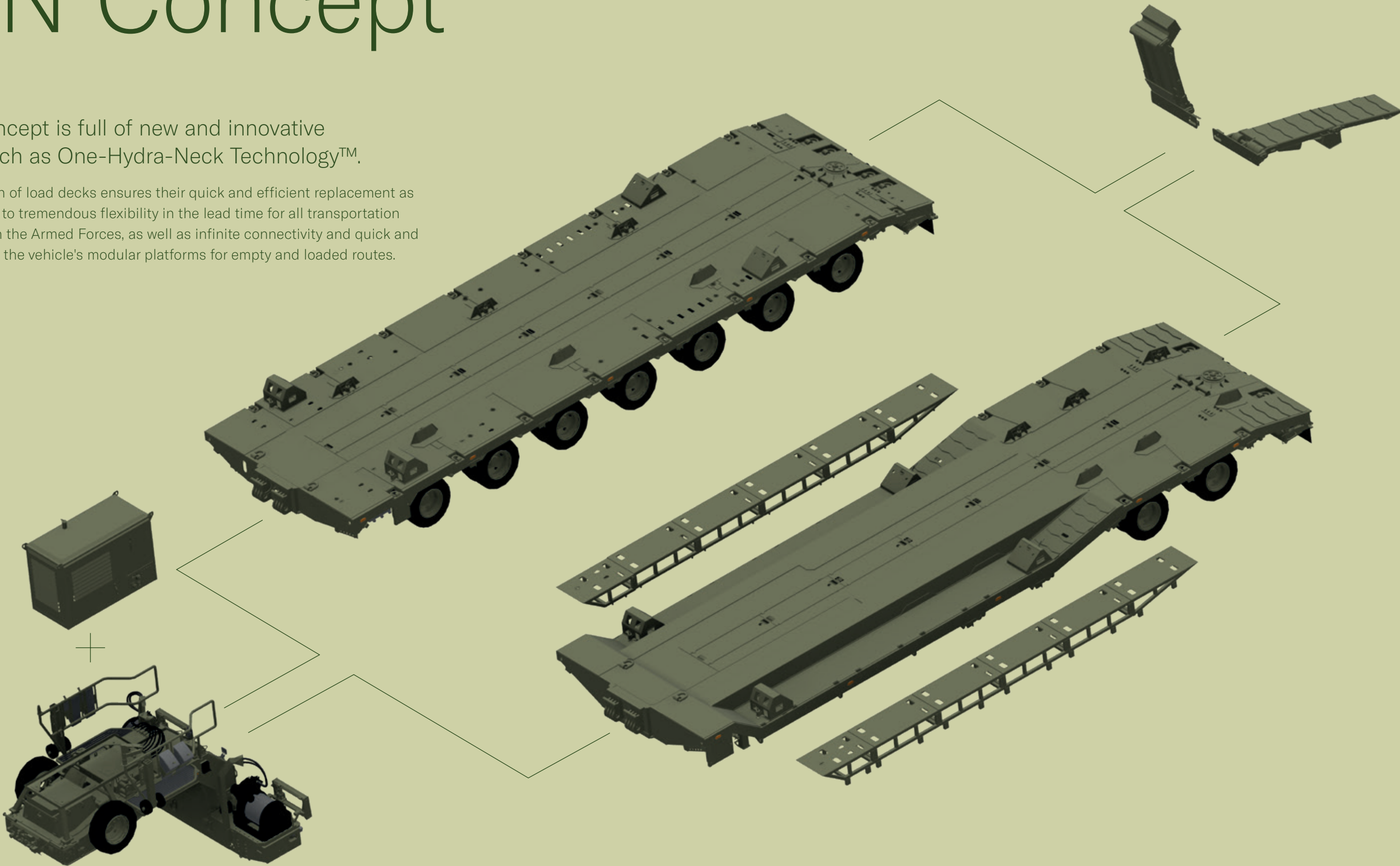
A universal goose neck. Hydraulic cylinders, in addition to height adjustment, allow to change the tractor's fifth wheel load, and an additional power-pack allows to drive 2 winches and smoothly control the neck position.



# KBN Concept

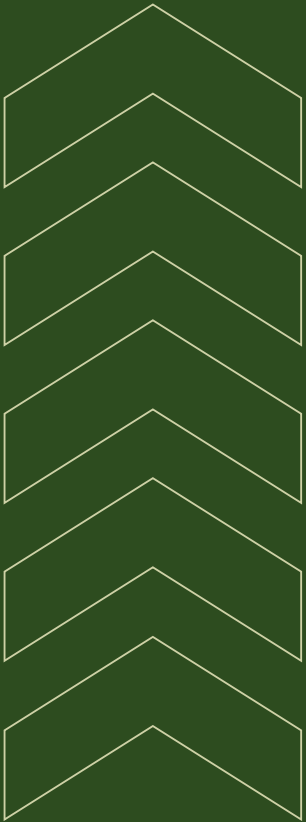
The KBN concept is full of new and innovative solutions, such as One-Hydra-Neck Technology™.

The modular design of load decks ensures their quick and efficient replacement as needed. This leads to tremendous flexibility in the lead time for all transportation tasks carried out in the Armed Forces, as well as infinite connectivity and quick and easy adjustment of the vehicle's modular platforms for empty and loaded routes.





More efficient  
Faster  
More flexible



Triple your benefits  
with the KBN!

DEMARKO S.A.

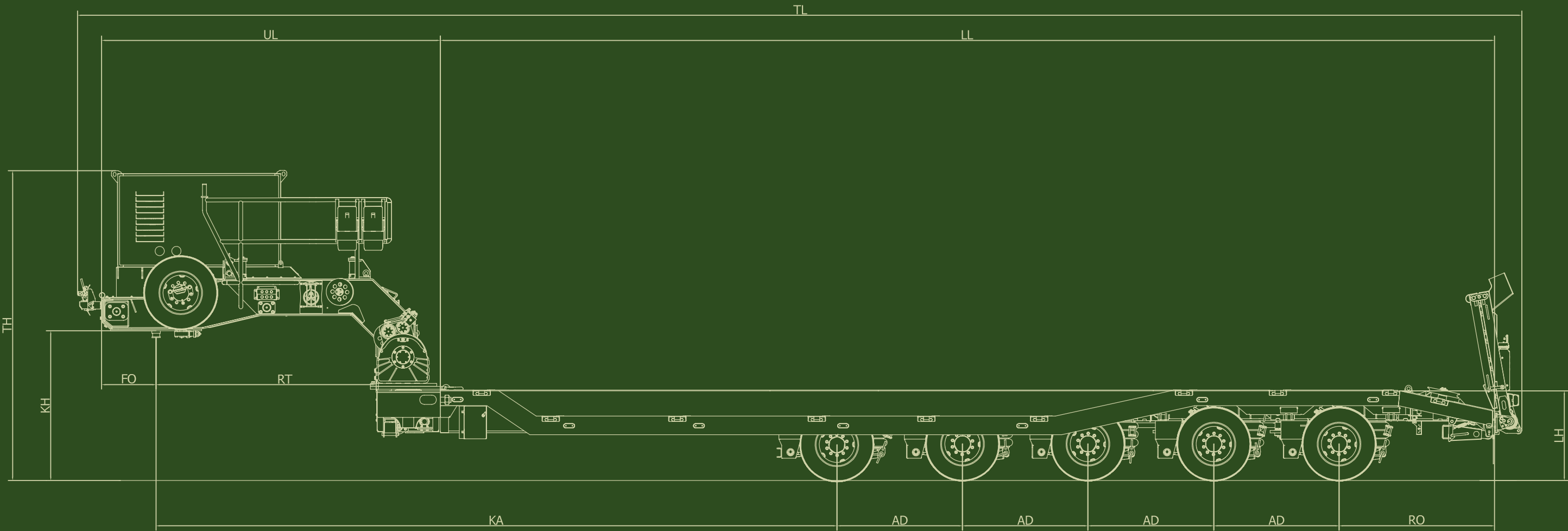
Intelligent Development Operational Program 2014-2020 Activity 1.2: Sectoral R&D Programs, INNOMOTO Sectoral Program

Project title: "Development of a prototype specialized modular trailer for transporting tanks, heavy tracked equipment and other military equipment and vehicles."

The project is co-financed by the European Union with funds from the European Regional Development Fund under the Intelligent Development Operational Program. Project implemented under the National Research and Development Center contest: INNOMOTO Sectoral R&D Programs.

# ST 555-20W.M 5-axle

Dimensions			Weights	
TL	Total length	15 530 mm	Gross vehicle weight	72 800 kg
W	Width	3 450 mm	Semi-trailer weight	21 500 kg
KH	Coupling height	1 250 – 1 650 mm	Masa generatora	1 300 kg
LH	Load deck height	960 mm	Capacity	50 000 kg
LL	Lower load deck length	11 335 mm	Loads	
UL	Upper load deck length	3 640 mm		
FO	Front overhang	585 mm		
RO	Rear overhang	1 720 mm		
RT	Tractor turning radius	2 305 – 2 365 mm	Maximum 5th wheel load	20 000 kg
RA	Semi-trailer turning radius	905 mm	Axle load	5 x 12 000 kg
AD	Wheel base	1 350 mm		
KA	Distance from kingpin to 1st axle	7 320 mm		





# ST 775-20W.M

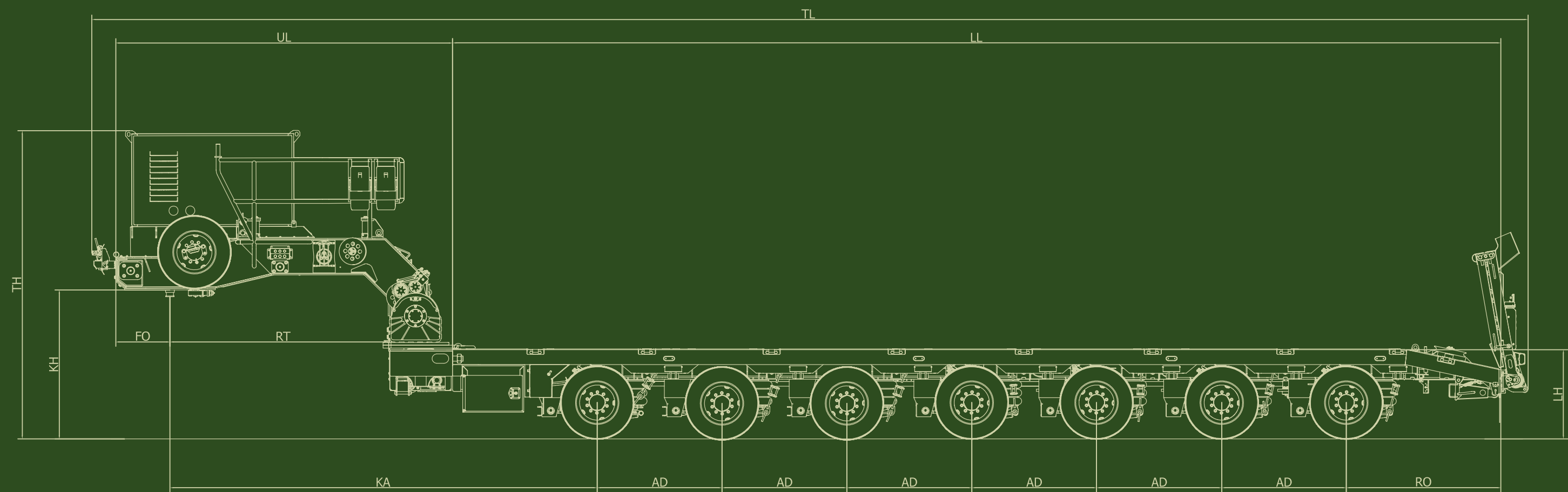
## 7-axle

Dimensions

TL	Total length	15 530 mm
W	Width	3 450 mm
KH	Coupling height	1 250 – 1 650 mm
LH	Load deck height	960 mm
LL	Lower load deck length	11 335 mm
UL	Upper load deck length	3 640 mm
FO	Front overhang	585 mm
RO	Rear overhang	1 720 mm
RT	Tractor turning radius	2 305 – 2 365 mm
RA	Semi-trailer turning radius	905 mm
AD	Wheel base	1 350 mm
KA	Distance from kingpin to 1st axle	4 620 mm

Weights

Gross vehicle weight	97 100 kg
Semi-trailer weight	25 800 kg
Masa generatora	1 300 kg
Capacity	70 000 kg
Loads	
Maximum 5th wheel load	20 000 kg
Axle load	7 x 12 000 kg





**1**  
**LIGHTING**

24V electrical installation with IP67 rating and black-out lighting.

**2**  
**RAMPS**

Hydraulically or manually controlled two-section ramps that can be adjusted to the vehicle being loaded.

**3**  
**AXLE UNITS**

Deck modules equipped with axles with differential track for high stability. Hydraulic axle steering system providing semi-trailers with excellent maneuverability, while contributing to longer tire life.

**4**  
**LOAD DECKS**

Deck modules equipped with a range of brackets and fixings to safely secure all types of equipment for transport. Additional equipment in the form of stop wedges and skids to facilitate the loading process.

**5**  
**MODULAR CONSTRUCTION**

Modular construction made of high-strength steel for high rigidity in off-road conditions. Integrated recesses for carrying vehicles of large height.

**6**  
**GOOSE NECK**

Hydraulic neck adapted to military and civilian tractors with a system allowing quick change of coupling height in the range of 1,250 - 1,650 mm and compensation of fifth wheel load. The neck comes with 2 winches with a pulling capacity of 24T each, mounted on rotating bases for loading and self-evacuation.

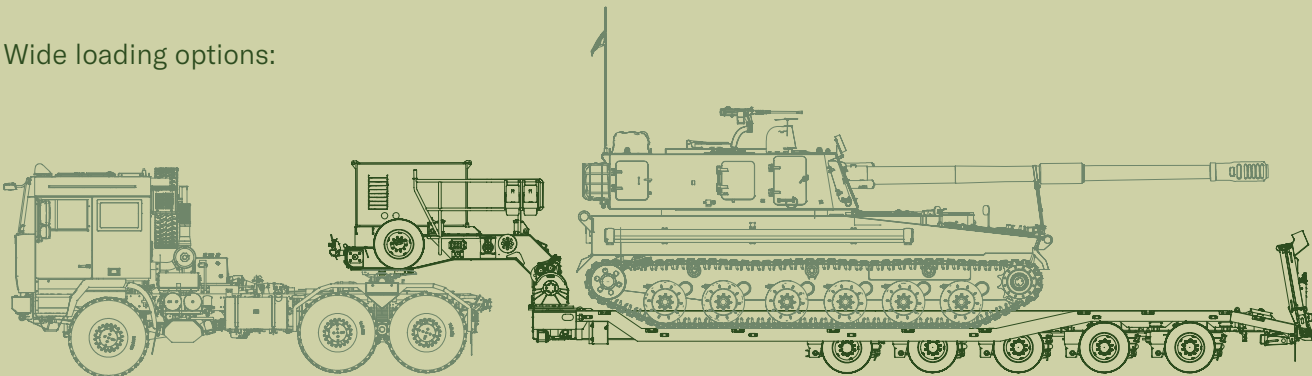




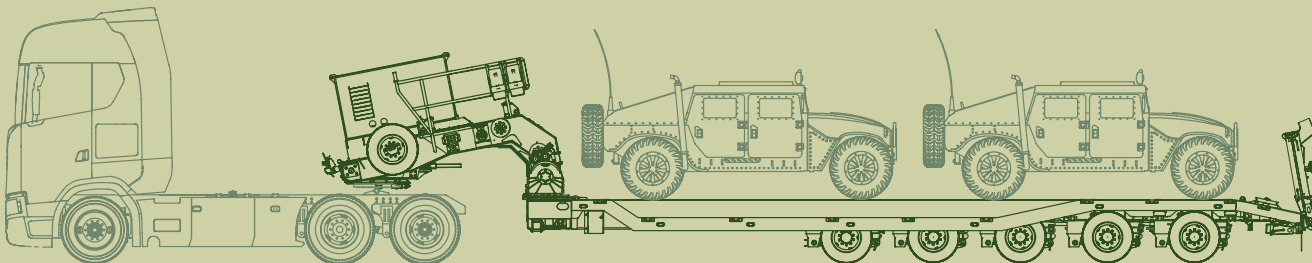
VERSATILITY  
OF APPLICATIONS

Examples with military  
and civilian tractors

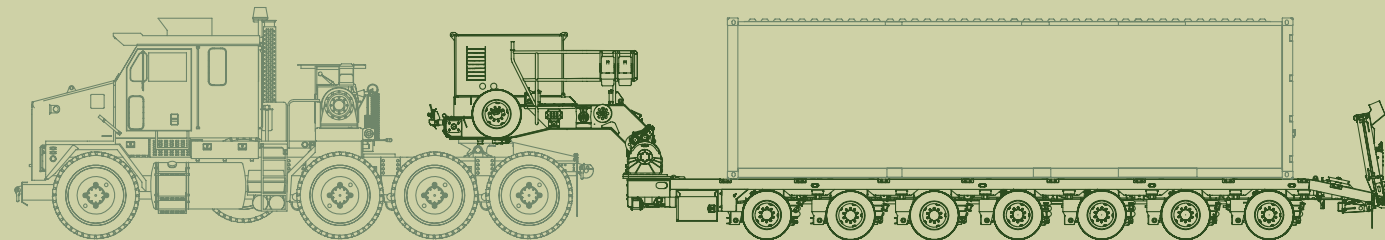
Wide loading options:



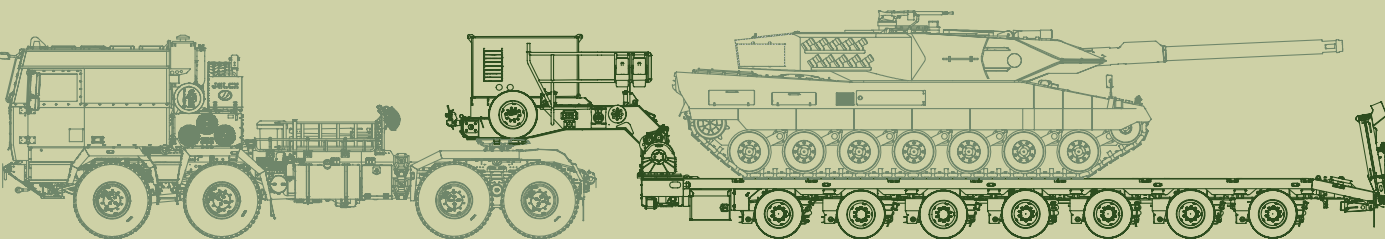
Self-propelled howitzers: KRAB, K9



Wheeled equipment



Containers



Tanks: ABRAMS, LEOPARD, CHALLENGER, K2



Centralized lubrication system that can be converted to an automatic central system.



Load securing brackets.  
Ergonomic access steps.



Hydraulic power generator.  
Spare wheel basket  
with a crane.



Winches with innovative control  
system for loading and  
self-evacuation operations.











34

years of experience  
in the automotive industry

40

engineers

200

employees

12

export countries

12000 67%

specialized vehicles  
delivered

clients by  
recommendation

200000m<sup>2</sup>

of production area

Cooperation:



Politechnika  
Śląska



We hold the following certificates:

ISO 9001:2015, 3834-2

AQAP 2110:2016

LICENCE B-071/2018

NCAGE 99NMH

WSK 1334/W/2021

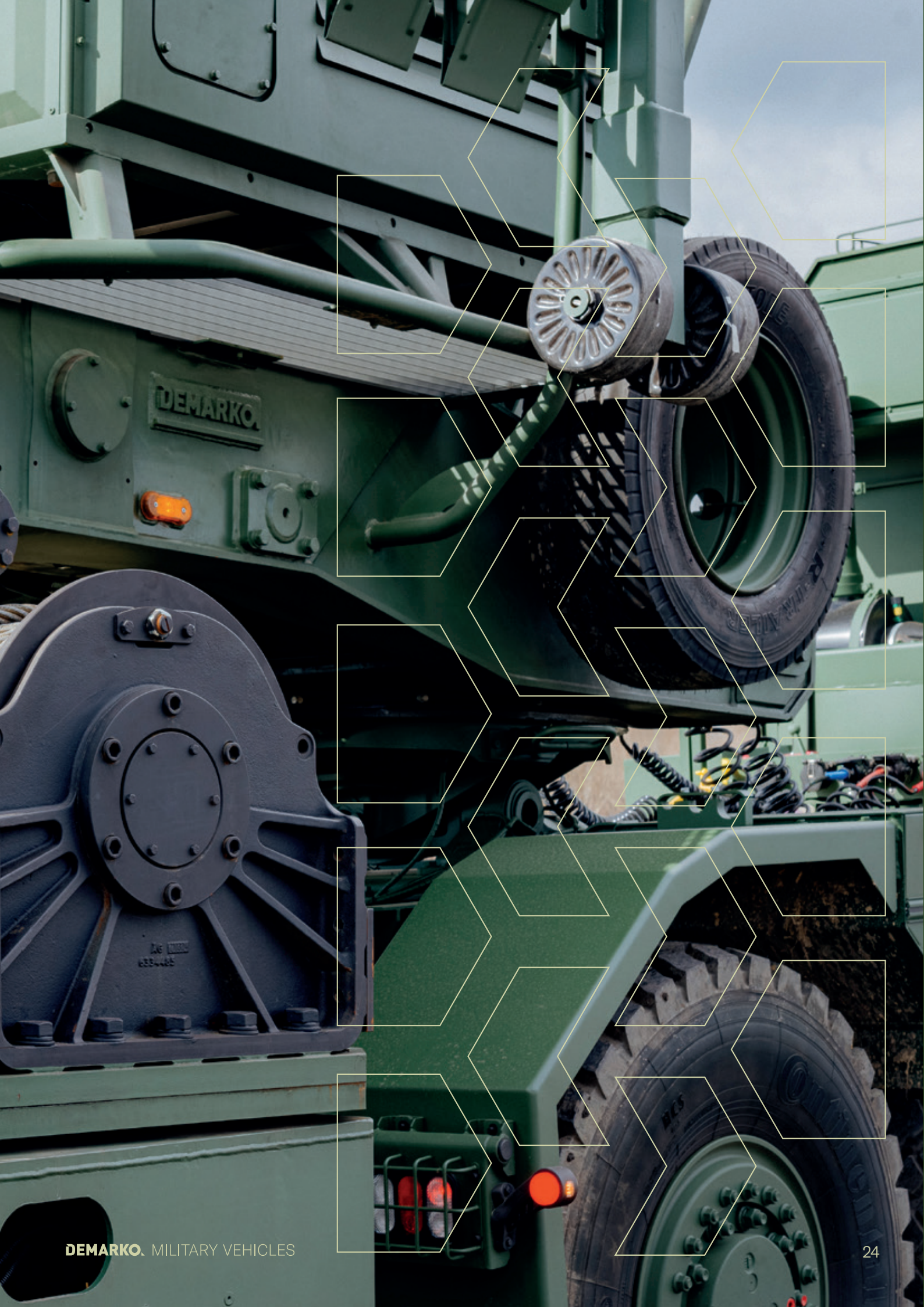


AQAP 2110:2016  
PN-EN ISO 9001:2015



ID 9000001681





We are  
at your  
disposal

DEMARKO  
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