



Alermak Consulting Machinery Industry and Trade Inc. as Defense Industry, Rail Systems and Energy We manufacture tonnage machinery for the sector and specific products for the project.

Alermak is an officially approved supplier of the Presidency of Defence Industries of the Republic of Turkey. It is the official maintenance unit of the Ministry of Transport and Infrastructure. The European railway manufacturer is also officially registered and published in the agency as an ECM.

Alermak is also ASELSAN Electronics Industry and Trade Inc., ROKETSAN Rocket Industries and Trade Inc. and is the approved supplier of Turkish Aerospace Industries Inc.

Our company, which has undertaken many projects in its field, has received Type Approval and Registration Certificates from our Ministry for Turkey's first 100% domestic capital and 95% domestic tonnage railway maintenance and construction vehicles.

Continuing its projects, our organization maintains its harmonious and enthusiastic approach to continuous development, advances in technology and future investments

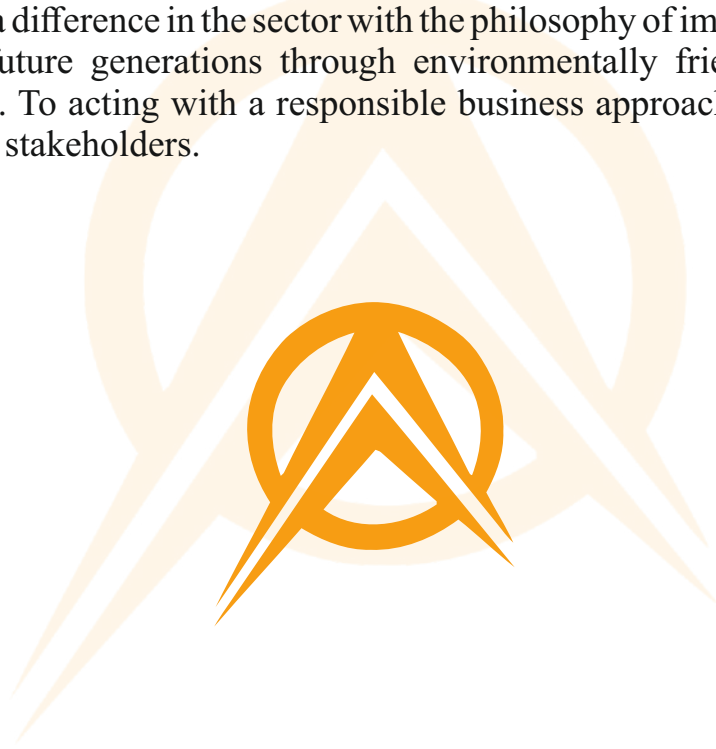
ALERMAK
DANIŞMANLIK MAKİNA SAN. ve TİC. A.Ş.
Malıköy Başkent O.S.B. Mah. 20. Cad.
H Blok No:15/3 Sincan Ankara
Sincan V.D.051 085 4103



MISSION

Based on customer demands and satisfaction, we provide high quality, reliable and local and national services. To improve their business processes and quality of life by offering innovative products. Efficiency and Based on excellence, in a socially and environmentally friendly manner with sustainable production processes operate.

Our aim is to develop innovative solutions by finding the best solutions through teamwork and collaboration to produce them in a way that exceeds customer expectations. Innovative perspective on domestic production and continuous. To adapting to competitive market conditions and make a difference in the sector with the philosophy of improvement. To leaving a livable world to future generations through environmentally friendly and sustainable production processes. To acting with a responsible business approach towards society, our employees and all our stakeholders.



VISION

To eliminate external dependence by using domestic and national equities in the production sector, to provide income to the country by increasing the percentage of imports, and to change the world's perspective on our country.

To be a manufacturing company that sets the standard of excellence in our industry and constantly develops with technology and innovation. To position ourselves as the most reliable and respected company in which industry by maximizing customer satisfaction.

To take a leading role in the sector with environmentally friendly, sustainable growth strategies. To be a company that adds value to society and is known and appreciated for its social responsibility projects. Alermak innovates to make a positive difference in people's lives. Our absolute customer focus and interaction with our customers drives our priorities. We work hard to deliver on our commitments to our customers, our employees and most importantly. Our country. Our success through innovation in technology, processes and services is both our proud history and our call for the future.

100% Domestic Production

To be a globally recognized, leading and pioneering manufacturing company in its field. To becoming a brand that shapes the industry of the future with domestic and national production by offering sustainable production solutions with innovation and technology.

Tunnel locomotives and tunnel maintenance wagons are specially designed and specially produced for different work machines, used in different pallet spacings according to the desired environmental conditions. Pantographs, cranes, segment wagons and excavators are included in our field of activity.

Global Understanding

We embrace a living ALERMAK culture that focuses on teamwork and collaboration, providing the best solutions for our customers.

We are determined to embrace different cultures and ideas, just like Türkiye. Diversity and inclusion strengthen our teams, helping us implement the best ideas, while also supporting our corporate value of “producing excellence together.”

Reliability

While Alermak team serves our customers with a transparent, sensitive and innovative approach, our aim is; Working together to create a safer world.





BAKIMDAN SORUMLU BİRİM SERTİFİKASI



1. SERTİFİKALI ORGANİZASYON

Yasal Unvan: ALERMAK DANIŞMANLIK MAKİNA SAN. VE TİC. A.Ş.	
Ticari İsmi veya Kısaltılmış İsmi (isteğe bağlı):	
Tam Posta Adresi (cadde, posta kodu, şehir, ülke) Maliköy Başkent O.S.B. Mah. 20. Cad. H Blok No:15 /3 Sincan-ANKARA	
İşyeri Kayıt Numarası: 00510855410300001	Vergi Dairesi / No: Sincan-0510854103

2. SERTİFİKASYON KURUMU

Yasal Unvan: Ulaştırma ve Altyapı Bakanlığı Ulaştırma Hizmetleri Düzenleme Genel Müdürlüğü
Tam Posta Adresi (cadde, posta kodu, şehir, ülke): Hakkı Turaylıç Cd. No:5 06388 Emek/Çankaya/ANKARA
Belgelendirme Kurumun Referans Numarası: TR/30/0013/0001

3. SERTİFİKA BİLGİSİ

Yeni Sertifikadır	☒	Sertifika Numarası : TR/31/0021/9002
Yenilenmiş Sertifikadır	☐	
Güncellenmiş/Düzeltilmiş Sertifikadır	☐	
Geçerlilik süresi:08/09/2021 tarihinden 07/09/2022 tarihine kadar.		
Şirketin türü : • Bakım Tedarikçisi, İmalatçı		

4. BAKIM FAALİYETLERİNİN KAPSAMI

OTMler, Diğer (Karayolu-Demiryolu araçları)

5. AÇIKLAMA

Aşağıda belirtilen yönetmelik kapsamında yetkilendirilmiştir.. • 16.07.2015 tarihli ve 29418 sayılı Demiryolu Araçları Tescil ve Sicil Yönetmeliği,
--

DÜZENLEYEN YETKİLİ OTORİTE:

İsim : Ulaştırma Hizmetleri Düzenleme Genel Müdürlüğü	Telefon : 90-312 203 2280
Adres : Hakkı Turaylıç Cd. No:5 06388 Emek	Faks : 90-312 231 3052
Şehir : ANKARA	www (web) : www.uhdgm.uab.gov.tr
Ülke : TÜRKİYE	E-posta : uhdgm@uab.gov.tr

TARİH: 08/09/2021

İMZA:

Murat BASTOR
Genel Müdür





CERTIFICATE OF ENTITY IN CHARGE OF MAINTENANCE



Confirming acceptance of the maintenance system of an entity in charge of maintenance (ECM) in conformity with Appendix G to COTIF (the ATMF Uniform Rules) and Annex A to the ATMF Uniform Rules.

1. EIN Number **TR/31/0324/0004**

2. CERTIFIED ENTITY IN CHARGE OF MAINTENANCE

Legal Title: **ALERMAK DANIŞMANLIK MAKİNE SAN VE TİC. A.Ş.**
Commercial Designation or Acronym (Voluntary): **ALERMAK**
Complete Postal Address(Street, Postal Code,City,Country): **BAŞKENT O.S.B. 20.CAD. H BLOK NO:15/3, 06909, Ankara, Turkey**
Registration Business Number: **432274** VAT No: **0510854103**

3. CERTIFICATION BODY

Legal Title: **DeTIM Belgelendirme Muayene ve Mühendislik Hiz. Ltd. Sti. - DeTIM**
Complete Postal Address(Street,Postal Code,City,Country): **MUSTAFA KEMAL MAH. DUMLUPINAR BLV. E BLOK 274/26 ÇANKAYA-ANKARA/TÜRKİYE**
Certification Body Reference Number : **TR/30/0321/0001**

4. CERTIFICATE INFORMATION

This is a:
- new certificate ☐
- renewed certificate ☐
- Updated/amended certificate ☒
EIN number of the previous certificate: **TR/31/0322/0004**
Validity from: **08.02.2024** To: **13.09.2026**
Type of company: **Maintenance supplier, Manufacturer**

5. SCOPE OF ECM ACTIVITIES

Category of vehicles: **Freight wagons, Locomotives, Multiple Units, OTMs, Other (Rail-Road Vehicles)**
Covers other wagons specialized in transport of dangerous goods Yes ☐ / No ☒

6. ADDITIONAL INFORMATION

This assessment was made in accordance with ERA-1172-003 ECM certification scheme, version 1.1.
This certificate covers maintenance and repair activities in the following workshops:
1- Başkent O.S.B. 20.CAD. H BLOK NO:15/3, 06909, Ankara, Türkiye
2- Yenice Mahallesi Uzun Sokak No:58 Pamukova Sakarya, Türkiye

Date issued (DD/MM/YYYY)

08.02.2024

Internal reference number

TR/31/0324/0004

Certification Manager (Signature/Stamp)



DTM.S.04a 30.04.2021/Rev.01

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MAINTENANCE FUNCTIONS CERTIFICATE



Confirming acceptance of the maintenance system function or functions in conformity with Appendix G to COTIF (the ATMF Uniform Rules) and Annex A to the ATMF Uniform Rules.

1. EIN Number	TR/33/0324/0002		
2. CERTIFIED ORGANIZATION			
Legal Title:	ALERMAK DANIŞMANLIK MAKİNE SAN VE TİC. A.Ş.		
Commercial Designation or Acronym (Voluntary):	ALERMAK		
Complete Postal Address(Street,Postal Code,City,Country):	BAŞKENT O.S.B. 20.CAD. H BLOK NO:15/3, 06909, Ankara, Turkey		
Registration Business Number: 432274	VAT No: 0510854103		
3. CERTIFICATION BODY			
Legal Title:	DeTIM Belgelendirme Muayene ve Mühendislik Hiz. Ltd. Sti. - DeTIM		
Complete Postal Address(Street,Postal Code,City,Country):	MUSTAFA KEMAL MAH. DUMLUPINAR BLV. E BLOK 274/26 ÇANKAYA-ANKARA/TÜRKİYE		
Certification Body Reference Number:	TR/30/0321/0001		
4. CERTIFICATE INFORMATION			
This is a:	☐ new certificate ☐ renewed certificate ☒ Updated/amended certificate	EIN number of the previous certificate: TR/33/0322/0004	
Validity from: 08.02.2024	To: 13.09.2026		
Type of company: Maintenance Supplier, Manufacturer			
5. SCOPE OF MAINTENANCE ACTIVITIES			
Category of vehicles: Freight wagons, Locomotives, Multiple Units, OTMs, Other (Rail-Road Vehicles)			
Covers other wagons specialized in transport of dangerous goods Yes ☐ / No ☒			
6. MAINTENANCE FUNCTIONS			
Maintenance Development	Yes ☒	No ☐	
Fleet Maintenance Management	Yes ☒	No ☐	
Maintenance Delivery	Yes ☒	No ☐	
7. ADDITIONAL INFORMATION			
This assessment was made in accordance with ERA-1172-003 ECM certification scheme, version 1.1.			
This certificate covers maintenance and repair activities in the following workshops:			
1- Başkent O.S.B. 20.CAD. H BLOK NO:15/3, 06909, Ankara, Türkiye			
2- Yenice Mahallesi Uzun Sokak No:58 Pamukova Sakarya, Türkiye			
Date issued (DD/MM/YYYY)	08.02.2024		
Internal reference number	TR/33/0324/0002		
DTM.S.04b 30.04.2021/Rev.00			
Certification Manager (Signature/Stamp) Aslı ÇOŞKUN			

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Conformity Certificate According to UIC Standard UIC 510-2

Certificate Number: 0001/510-2/23/RST/EN/20230127/V02

DETİM Belgelendirme Muayene ve Müh. Hiz. Ltd. Şti.

Dumlupınar Bulv. 274/26 E-Blok Çankaya/ANKARA, TURKEY

Scope of Assessment	Railway Wheels defined under UIC 510-2
Manufacturer	ALERMAK DANIŞMANLIK MAKİNA SAN. ve TİC. A.Ş. Malıköy Başkent O.S.B Mah. 20. Cad. H Blok No:15/3 Sincan/Ankara - Türkiye
Manufacturing Location	ALERMAK DANIŞMANLIK MAKİNA SAN. ve TİC. A.Ş. Malıköy Başkent O.S.B Mah. 20. Cad. H Blok No:15/3 Sincan/Ankara - Türkiye
Assessment Requirements	UIC 510-2:2004 Trailing stock: wheels and wheelsets
Assessment Result	The object of Assessment as identified above was shown to comply with the Assessment Requirements, subject to any restriction and conditions as listed below. The Assessment Results are provided in detail within the below referred Assessment Report.
Restrictions / Conditions	Conformity assessment was carried out for different size wheels (120mm and 780mm diameters) as stated in the Assessment Report. The certificate is valid for 120mm, 150mm, 180mm, 210mm, 240mm, 270mm, 300mm, 330mm, 340mm, 350mm, 360mm, 390mm, 420mm, 450mm, 480mm, 510mm, 540mm, 570mm, 600mm, 630mm, 660mm, 690mm, 720mm, 750mm, 780 mm, 810mm and 840mm wheel diameters. However, when the diameter changes, additional NDT tests and certificate update will be required.
Assessment Report	20230127_Alermak_Teker UIC_Uygunluk Değerlendirme Raporu_Rev.00 The report of the certification body is an integral part of this Certificate and technical specifications of the product are given in the report.
Validity	This present certificate is valid for the object of the assessment as mentioned above and as long as the wheels and relevant technical documentation are not modified. The certification body must be informed about any modifications without delay.

Validity Start Date: 17/03/2023

Validity End Date: n.a.

Certificate Date of Issue: 17/03/2023

Certification Manager
(Sign/Stamp)
ASLI COSKUN



DTM.S.13 / 09.11.2022 / Rev.00

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Conformity Certificate According to EN Standard

Certificate Number: 0004/50206-2/22/RST/EN/20211120

DETİM Belgelendirme Muayene ve Müh. Hiz. Ltd. Şti.
Dumlupınar Bulv. 274/26 E-Blok Çankaya/ANKARA, TURKEY

Scope of Assessment	Pantographs defined under EN 50206:2
Manufacturer	ALERMAK DANIŞMANLIK MAKİNA SAN. ve TİC. A.Ş. Malıköy Başkent O.S.B Mah. 20. Cad. H Blok No:15/3 Sincan/Ankara
Manufacturing Location	ALERMAK DANIŞMANLIK MAKİNA SAN. ve TİC. A.Ş. Malıköy Başkent O.S.B Mah. 20. Cad. H Blok No:15/3 Sincan/Ankara
Assessment Requirements	TS EN 50206-2 Railway applications- Rolling stock- Characteristics and test Part 2: Pantographs for metros and light rail vehicles
Assessment Result	The object of Assessment as identified above was shown to comply with the Assessment Requirements, subject to any restriction and conditions as listed below. The Assessment Results are provided in detail within the below referred Assessment Report.
Restrictions / Conditions	- The "Electric Motor" of the pantograph depends on customer specification per standard and can be added optionally. - There is only "Manual Lowering Device" in the pantograph.
Assessment Report	20211120_Alermak_Pantograf_Uygunluk Değerlendirme Raporu_Rev.00 The report of the Assessor is an integral part of this Certificate and technical specifications of the product are given in the report.
Validity	This present certificate is valid for the object of the assessment as mentioned above and as long as the pantograph and relevant technical documentation are not modified. The Assessor must be informed about any modifications without delay.

Validity Start Date: 08/02/2022

Certificate Date of Issue: 08/02/2022

Certification Manager



DTM.S.12 / 05.10.2021 / Rev.00

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CERTIFICATE



Welding of railway vehicles and components according to EN 15085-2

This is to certify that **ALERMAK DANIŞMANLIK MAKİNA SAN. VE TİC. A.Ş.**
Malıköy Başkent OSB Mah. 20. Cad. H Blok No:15/3 Sincan ANKARA

Is qualified to perform welding work within the range of certification of:

Classification: Level CL1

Types of Activity: P Production, M Maintenance

Field of application: Maintenance of rail vehicles and production of rail vehicle components and rail control car.

Range of certification:

Welding process according to EN ISO 4063	Material group according to CEN ISO/TR 15608	Dimensions	Comments
135	1.2	3-24 mm	BW
135	1.2	3-24 mm	FW

Responsible welding coordinator: Batuğhan DURKAYA-IWE; Born: 14.04.1991
Deputy with equal rights: —
Deputy: Ebru YALÇIN; Born: 05.08.1979
Comments: —
Certificate No: CAS-24-PC-0697-TAT-0366
Valid: From 23.08.2024 to 22.08.2027
Issued on: 23.08.2024
Next Surveillance: 22.08.2025
Auditor: Yusuf ERDOĞAN

General Regulations (see reverse)

Ali Osman ÖZVEREN

TÜV AUSTRIA TÜRK



CRT-CAS-001b EN 15085-2
 Revizyon Numarası :04
 Revizyon Tarihi:26.05.2023
 Page 1/2

**TÜV AUSTRIA TÜRK BEL.EĞİTİM VE GÖZETİM
HİZ.LTD.ŞTİ.**

Bu belgeyi çoğaltma izni sadece TÜV AUSTRIA TÜRK yetkisindedir.
 Tüm uygunluk değerlendirme faaliyetleri, TÜV AUSTRIA TÜRK'ün QM
 sistemine uygun olarak gerçekleştirilmiştir.

Çamlık Mah. İkbâl Cad.
 Dış Sk. No:28 PK:34774
 Ümraniye / İSTANBUL
 E-mail:info@turkey.tuv.at
 Phone: +90 (216) 537 08 11
 Fax: +90 (216) 537 08 13



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Remarks:**Other representatives:**

- ✓ Bogies : N/A
- ✓ Body production, final assembly : N/A
- ✓ Training workshop : Batuhan DURKAYA

Authorization for acceptance of Welder-/operator examinations:

The following welding supervisors are entitled, within the scope of this certificate, to test welders / operators according to the relevant standards::

- ✓ None

General regulations

according to EN 15085-2

Revocation of the Certificate

The national safety authority or the manufacturer certification body issuing this certificate may revoke the certificate if::

- ✓ There are justified doubts as to the proper execution of the welding work according to the stated standards,
- ✓ There are justified doubts as to the proper welding coordination according to the stated standards,
- ✓ No recognized welding coordinator is available any longer,
- ✓ No valid qualification test certificates for the welders and welding operators according to the specified standards are available,
- ✓ Welders or welding operators without tested qualifications have been entrusted with the execution of welding work under the stated standards,
- ✓ Other conditions according to the stated standards are no longer satisfied,
- ✓ The manufacturer certification body was refused an opportunity to perform the annual verification,
- ✓ The welding manufacturer waives the certificate

The welding manufacturer shall acknowledge the revocation in writing to the manufacturer certification body. The manufacturer certification body shall notify the national safety authority.

If a valid certificate is to be renewed, the renewal must be applied for with the manufacturer certification body at least **two months** before the end of the period of validity of the current certificate.

Distribution list:

1. Applicant (Original)
2. Files

CRT-CAS-001b EN 15085-2
Revizyon Numarası : 04
Revizyon Tarihi: 26.05.2023
Page 2/2

TÜV AUSTRIA TURK BELEĞİTİM VE GÖZETİM HİZ.LTD.ŞTİ.

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Çamlık Mah. İkbâl Cad.
Dinç Sk. No:28 PK:34774
Ümraniye / İSTANBUL
E-mail: info@turkey@tuv.at
Phone: +90 (216) 537 08 11
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BENART International Technical Inspection and Certification LTD.

İvedik OSB Melih Gökçek Bulvarı OSBTÜRK Plaza No:140/15 Yenimahalle/ANKARA/TÜRKİYE

Phone : +90 312 442 40 35 Fax : +90 312 442 40 32

www.benart.com.tr - info@benart.com.tr

CERTIFICATE OF CONFORMITY

Company Name : ALERMAK DANIŞMANLIK MAKİNA SANAYİ VE TİCARET ANONİM ŞİRKETİ

Address : MALIKÖY BAŞKENT OSB MAHALLESİ 20. CADDE NO: 15/3
SİNCAN/ANKARA/TÜRKİYE

Product Description : BEARING REMOVAL AND INSTALLATION PRESS FOR RAILWAY VEHICLES

Product Brand : ALERMAK

Product Model : HBP61, HBP62, HBP63, HBP64, HBP65

Reference Directive(s) : 2006/42/EC Machinery Safety Directive Annex-1

Reference Standard(s) : EN ISO 12100:2010, EN 60204-1:2018/A1:2025

Test Report : Benart International Technical Inspection and Certification LTD. : LVD-6640

Certificate No : 2105

Issue Date : 12.08.2025 **Expiry Date** : 11.08.2026

BENART International Technical Control and Valuation Inc. has made technical inspection of product, inspected the documentation presented concerning the product of the company whose name and address mentioned above according to the reference directive and/or reference standards. Suitability of product and documentation to the directive and standards are under the responsibility of the company. However, in case the product is subject to more than one of the

directives and standards which are mentioned above, when the company fulfills conditions of other directives and standards, then it can attach **CE** conformity marking and arrange conformity declaration. This certificate has been issued as per company request. This certificate has not been issued under Notified Body identity. This certificate has been issued upon the request of the company and the reason that the result of the examination is positive.



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Technical Data

Vehicle Type	VoltRay
Total Weight	18.500 kg
Wheel Diameter	920 mm
Axles	2 axles
Height	3600 mm
Length	9700 mm
Width	2600 mm
Sweeping Speed	80/100 km/h
Gauge	1435 mm
Engine Type	BF6M1013E
Engine Power	235 kW
RPM	2300
Electrical System	24 V
Capacity	5 Personnel



**T.C. ULAŞTIRMA VE
ALTYAPI BAKANLIĞI**

TİP ONAY BELGESİ
TR5420251001



Bu belge aracın teknik olarak COTIF 1999 (APTU&ATMF)'ye göre kabul edildiğinin kanıtıdır.

ARACIN CİNSİ

Yük vagonu
Yolcu vagonu
Lokomotif
Tren seti
Diğer

☐
☐
☐
☐
☒

ARACIN TİPİ

Tip Tanımı
Prototipin Araç Numarası
Varsa Diğer Tip tanımı
Kategori ve indeks (Hbis gibi)

Kataner Bakım Aracı
997596360013
VoltRay

BAŞVURU SAHİBİ

İsim **Alermak Danış.Mak.**
San. Ve Tic. A.Ş.
Adres **Maliköy Başkent O.S.B Mah.**
20.Cad.H Blok No:15/3 Sincan
Posta Kodu **06909**
Şehir **ANKARA**
Ülke **TÜRKİYE**
MERSİS No **0051085410300001**

Telefon **+90 312 577 13 82**
Faks
www (web) **www.alermaksan.com**
e-mail **info@alermak.net**
Başvuru Referansı **I**

PROTOTİPİN İMALATÇISI

İsim **Alermak Danış.Mak.**
San. Ve Tic. A.Ş.
Adres **Maliköy Başkent O.S.B Mah.**
20.Cad.H Blok No:15/3 Sincan
Posta Kodu **06909**
Şehir **ANKARA**
Ülke **TÜRKİYE**
MERSİS No **0051085410300001**

Telefon **+90 312 577 13 82**
Faks
www (web) **www.alermaksan.com**
e-mail **info@alermak.net**
Başvuru Referansı **I**

İŞLETME KISITLAMALARI (varsa)

- 1) Seyir hızı maksimum 80 km/s ile sınırlıdır.
- 2) Araç %25 eğimli rampadan daha dik bir rampaya sahip altyapıda kullanılmayacaktır.
- 3) Araç farklı bir demiryolu aracını çekemez.
- 4) Araç trene bağlanamaz ve sevk edilemez, acil durumlarda aracın kendisi 20km/s geçmeyecek hızda çekilebilir.
- 5) Çalışma modunda (çalışma platformunun gabari harici kaldığı durumda) seyir yapamaz.
- 6) İşletme ve bakım kılavuzunda üretici tarafından verilen diğer işletme ve bakım sınır değerleri ile kullanım koşulları, işletme talimatları kısıtlama kabul edilir.
- 7) Tekne ve feribotlarda istiflemeye uygun değildir, deniz taşımacılığı ile sevk edilemez.

BU BELGE İÇİN ÖZEL ŞARTLAR (varsa)

- 1) Atanmış Kuruluş olan DETİM tarafından verilen AK/DR/250223/VOLTRAY rapor numaralı değerlendirme raporu ile aracın EN 14033'e göre imal edildiği belgelenmiştir.
- 2) İşbu belge ;Kataner Bakım Aracı herhangi bir modifikasyona tabi tutulmadığı sürece geçerli olacaktır. Yapılması muhtemel değişikliklerin Belge Sahibi tarafından Ulaştırma Hizmetleri Düzenleme Genel Müdürlüğüne bildirimde bulunulması zorunludur.

Arka Sayfaya Geçiniz



T h i l D t



Technical Data

Vehicle Type	ALK240
Total Weight	20.000 kg
Wheel Diameter	920 mm
Axles	2 axles
Height	3600 mm
Length	9700 mm
Width	2600 mm
Sweeping Speed	80/100 km/h
Gauge	1435 mm
Engine Type	BF6M1013FC
Engine Power	235 kW
RPM	2300
Electrical System	24 V
Capacity	5 Personnel
Crane	24 Tons Per Meter



**T.C. ULAŞTIRMA VE
ALTYAPI BAKANLIĞI**

TİP ONAY BELGESİ
TR5420211001



Bu belge aracın teknik olarak COTIF 1999 (APTU&ATMF)'ye göre kabul edildiğinin kanıtıdır.

ARACIN CİNSİ

Yük vagonu
Yolcu vagonu
Lokomotif
Tren seti
Diğer

☐
☐
☐
☐
☒

ARACIN TİPİ

Tip Tanımı
Prototipin Araç Numarası
Varsa Diğer Tip tanımı
Kategori ve indeks (Hbis gibi)

Kataner Bakım Aracı

997591360000

ALK 240

BAŞVURU SAHİBİ

İsim

Alermak Danış.Mak.

Telefon

+90 0532 502 43 05

Adres

San. Ve Tic. A.Ş.
Maliköy Başkent O.S.B Mah.
20.Cad.H Blok No:15/3 Sincan

Faks

Posta Kodu

6909

www (web)

www.alermaksan.com

Şehir

ANKARA

e-mail

info@alermak.net

Ülke

TÜRKİYE

MERSİS No

0051085410300001

Başvuru Referansı

1

PROTOTİPİN İMALATÇISI

İsim

Alermak Danış.Mak.

Telefon

+90 0532 502 43 05

Adres

San. Ve Tic. A.Ş.
Maliköy Başkent O.S.B Mah.
20.Cad.H Blok No:15/3 Sincan

Faks

Posta Kodu

6909

www (web)

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e-mail

info@alermak.net

Ülke

TÜRKİYE

MERSİS No

0051085410300001

Başvuru Referansı

1

İŞLETME KISITLAMALARI (varsa)

1) Araçlar teknik özelliklerinde belirtilen ekartman açıklığı (1435mm) ve azami çalışma hızı 100 km/h ve çekilme hızı 100 km/h ve diğer teknik özellik ve ölçüleri dahilinde işletilebilir.

BU BELGE İÇİN ÖZEL ŞARTLAR (varsa)

1: Atanmış Kuruluş olan DETİM tarafından verilen AK/UY/20210825/ALK240 rapor numaralı değerlendirme raporu ile aracın EN 14033'e göre imal edildiği belgelenmiştir.

2: İşbu belge ;Kataner Bakım Aracı herhangi bir modifikasyona tabi tutulmadığı sürece geçerli olacaktır.Yapılması muhtemel değişikliklerin Belge Sahibi tarafından Ulaştırma Hizmetleri Düzenleme Genel Müdürlüğüne bildirimde bulunulması zorunludur.

Arka Sayfaya Geçiniz





Technical Data

Vehicle Type	ALK61LNA
Total Weight	12.300 kg
Wheel Diameter	430 mm
Axles	4 adet
Height	3400 mm
Length	7040 mm
Width	2500 mm
Sweeping Speed	80/100 km/h
Gauge	1435 mm
Engine Type	F6L912
Engine Power	74 kW
RPM	2300
Electrical System	24 V
Capacity	5 Personnel
Crane	24 Tons Per Meter



T.C. ULAŞTIRMA VE
ALTYAPI BAKANLIĞI

TİP ONAY BELGESİ
TR5420221001



Bu belge aracın teknik olarak COTIF 1999 (APTU&ATMF)'ye göre kabul edildiğinin kanıtıdır.

ARACIN CİNSİ

Yük vagonu
Yolcu vagonu
Lokomotif
Tren seti
Diğer

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☐
☒

ARACIN TİPİ

Tip Tanımı
Prototipin Araç Numarası
Varsa Diğer Tip tanımı
Kategori ve indeks (Hbis gibi)

Katener Bakım Otosu

99 75 9436 001-5

ALK61LNA

BAŞVURU SAHİBİ

İsim Alermak Danışmanlık
Makine San. ve Tic. A.Ş.
Adres Maliköy Başkent O.S.B Mah.
20.Cad. H Blok No:15/3 Sincan
Posta Kodu 06909
Şehir Ankara
Ülke TÜRKİYE
MERSİS No 0051085410300001

Telefon +90 (312) 577 13 82
Faks
www (web) www.alermak.com.tr
e-mail info@alermak.com.tr
Başvuru Referansı 1

PROTOTİPİN İMALATÇISI

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Posta Kodu 06909
Şehir Ankara
Ülke TÜRKİYE
MERSİS No 0051085410300001

Telefon +90 (312) 577 13 82
Faks
www (web) www.alermak.com.tr
e-mail info@alermak.com.tr
Başvuru Referansı 1

İŞLETME KISITLAMALARI (varsa)

- 1) Araç ulusal ağda maksadı dışında kullanılamaz.
- 2) Araç kategori 6 aracıdır. Bir trene dahil edilemez.
- 3) Azami hız 80 km/s'tir.
- 4) Diğer demiryolu araçlarını çekmek için tasarlanmamıştır.

BU BELGE İÇİN ÖZEL ŞARTLAR (varsa)

- 1 Atanmış Kuruluş olan DETİM tarafından verilen AK/DR/20220115/ALK61 rapor numaralı değerlendirme raporu ile aracın EN 14033'e göre imal edildiği belgelenmiştir.
- 2 İşbu belge Kataner Bakım Aracı herhangi bir modifikasyona tabi tutulmadığı sürece geçerli olacaktır. Yapılması muhtemel değişikliklerin Belge Sahibi tarafından Ulaştırma Hizmetleri Düzenleme Genel Müdürlüğüne bildirimde bulunulması zorunludur.

Arka Sayfaya Geçiniz.





Technical Data

Vehicle Type	ALK61LNA-1
Total Weight	12.300 kg
Wheel Diameter	430 mm
Axles	4 axles
Height	3350 mm
Length	7040 mm
Width	2500 mm
Sweeping Speed	80/100 km/h
Gauge	1435 mm
Engine Type	BF6L913
Engine Power	113 kW
RPM	2300
Electrical System	24V
Capacity	5 Personnel



**T.C. ULAŞTIRMA VE
ALTYAPI BAKANLIĞI**

TİP ONAY BELGESİ
TR5420251002



Bu belge aracın teknik olarak COTIF 1999 (APTU&ATMF)'ye göre kabul edildiğinin kanıtıdır.

ARACIN CİNSİ

Yük vagonu
Yolcu vagonu
Lokomotif
Tren seti
Diğer

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ARACIN TİPİ

Tip Tanımı
Prototipin Araç Numarası
Varsa Diğer Tip tanımı
Kategori ve indeks (Hbis gibi)

Kataner Bakım Aracı

99759436004-9

ALK61LNA-1

BAŞVURU SAHİBİ

İsim **Alermak Danış.Mak.
San. Ve Tic. A.Ş.**
Adres **Maliköy Başkent O.S.B Mah.
20.Cad.H Blok No:15/3 Sincan**
Posta Kodu **06909**
Şehir **ANKARA**
Ülke **TÜRKİYE**
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Faks
www (web) **www.alermaksan.com**
e-mail **info@alermak.net**
Başvuru Referansı **2**

PROTOTİPİN İMALATÇISI

İsim **Alermak Danış.Mak.
San. Ve Tic. A.Ş.**
Adres **Maliköy Başkent O.S.B Mah.
20.Cad.H Blok No:15/3 Sincan**
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Ülke **TÜRKİYE**
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Faks
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e-mail **info@alermak.net**
Başvuru Referansı **2**

İŞLETME KISITLAMALARI (varsa)

- 1) Araç ulusal ağda maksadı dışında kullanılamaz.
- 2) Araç kategori 6 aracıdır. Bir trene dahil edilemez.
- 3) Azami hızı 80 km/s'tir.
- 4) Diğer demiryolu araçlarını çekmek için tasarlanmamıştır.

BU BELGE İÇİN ÖZEL ŞARTLAR (varsa)

- 1: Atanmış Kuruluş olan TSE tarafından verilen ULM-02-FR-08.00-001 doküman kodlu 31 Numaralı Teknik Kontrol Sonuç Formu ve ULM-02-FR-08.00-031 doküman kodlu 1 İnceleme Sıra Nolu Uyumluluk Matrisi ile aracın EN 14033'e göre imal edildiği belgelenmiştir.
- 2: İşbu belge ;Kataner Bakım Aracı herhangi bir modifikasyona tabi tutulmadığı sürece geçerli olacaktır.Yapılması muhtemel değişikliklerin Belge Sahibi tarafından Ulaştırma Hizmetleri Düzenleme Genel Müdürlüğüne bildirimde bulunulması zorunludur.





Technical Data

Vehicle Type	TRAM
Total Weight	5.000 kg
Wheel Diameter	4350 mm
Axles	2 adet
Height	3000 mm
Length	7500 mm
Width	2400 mm
Sweeping Speed	25/160 km/h
Gauge	1725 mm
Engine Type	F1C5802961021
Engine Power	120 kW
RPM	3500
Electrical System	24 V
Capacity	20 Personnel + 1 Disabled

Mobile Track-Mounted Laser and Mechanical Deformation Measurement Vehicle



**T.C. ADLİ YARARLARA VE
BULUNUR İDARELERİNE**

TESCİL BELGESİ

Bu belge, anılan şahsın cinsiyet, COTEP (SAPR) AKADEMİYE göre alması için kullanılır.

ARACIN TIPI

Yüksekliği

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SÜRETLİK MÜHÜRÜ

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Hydrostatic Drive Mobile Catenary Line Maintenance Truck



T.C. ULUSLARARASI VE KÜLTÜR BAKANLIĞI		TSC/IL BELGESİ			
Bu belge yabancı kuruluş olan ve COTIT (TMMOB) ve TMMOB'un diğer kuruluşları ile ilgili olarak:					
ARACIN TIPI		SEKİSTİYER (MOTORLU KARA)	TSC/IL BELGESİ NO:		
Vites yapısı	☐	Araçın/Aracın Numarası	Araçın/Aracın Numarası		
Vites yapısı	☐	Tek motorlu araçlar	9770928217-4		
Lisans	☐	Çekim numarası	Araçın/Aracın Numarası		
Tam adı		Kamyon ve kamyonetler	Araçın/Aracın Numarası		
Diğer	☐	Diğer motorlu araçlar	Araçın/Aracın Numarası		
Talep ve belge bilgileri					
ARACIN SAHİBİ		Talebin (İs. ile) girilmesi	97 312 467 34 55		
İsim	Araçın Sahibi (İs. ile) girilmesi	Talebin (İs. ile) girilmesi	97 312 467 34 55		
Adres	100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 9				



TTO-01 Mobile Catenary Maintenance Truck



T.C. ULAŞTIRMA VE ALTYAPI BAKANLIĞI		TESCİL BELGESİ	
Bu belge aracı teknik olarak COTİB 1991 (AFY & ATME) ya göre kabul edilmiştir.			
ARACIN TİPİ	TEKİRTEKİLİ NO (EIS Numarı)	T854202200015	
Teknik raporu	Aracın/Aracların Numarası	89799996602	
Yüksekliği	Teknik raporun	Mühürleme Tarihi	
Lehimler	Aracın/Aracların Kader	21.08.2022	
Teknik raporu	Aracın/Aracların Kader	Bu belgeyi bir Tescim Tipi	
Diğer	Aracın/Aracların Kader	Bu belgeyi bir Tescim Tipi	
Ticari ve teknik bilgiye göre			
ARACIN KAYITLI	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
İsim	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Adres	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Posta Kodu	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Şehir	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ülke	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ticari ve Teknik Bilgiye Göre	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
KAYITLI ARACIN KULLANMA HAKKINA SAHİP OLAN KİŞİ YADA KİŞİLER	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
İsim	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Adres	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Posta Kodu	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Şehir	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ülke	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ticari ve Teknik Bilgiye Göre	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
KAYITLI ARACININ SİHİRİMLİ KİŞİLERİ	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
İsim	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Adres	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Posta Kodu	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Şehir	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ülke	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ticari ve Teknik Bilgiye Göre	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
İMALATÇI (montajcı adı)	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
İsim	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Adres	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Posta Kodu	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Şehir	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ülke	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ticari ve Teknik Bilgiye Göre	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
İMALATÇI (montajcı adı)	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
İsim	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Adres	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Posta Kodu	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Şehir	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ülke	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	
Ticari ve Teknik Bilgiye Göre	YERLİ VE YABANCI	Ticari ve teknik bilgiye göre	

Measurement Pantograph



Pantograph with 750 Volt High Voltage Line Transmission for Marmaray Trains

Upon the special request of TCDD Tařımıcılık A.ř., our pantograph developed as part of localization efforts has successfully completed factory testing and is now ready for field testing.



Wheel Manufacturing with Compliance Report According to UIC 510-2



 	
UIC Standardı UIC 510-2'e Göre Uygunluk Belgesi Sertifika Numarası: 0001/510-2/23/RST/TR/20230127/V02	
DETİM Belgelendirme Muayene ve Müh. Hiz. Ltd. Şti. Duruluşu: Bul. 274/30 E-Bluk Çarşıya/ANKARA, TÜRKİYE	
Değerlendirme Kapsamı	UIC 510-2 kapsamında girilen demiryolu tekerleri
Üretici	ALERMAK DANIŞMANLIK MAKİNA SAN. ve TİC. A.Ş. Mevki: Başkent O.S.B. Mah. 20. Cad. H Blok No:35/3 Sincan/Ankara- Türkiye
Üretim Yeri	ALERMAK DANIŞMANLIK MAKİNA SAN. ve TİC. A.Ş. Mevki: Başkent O.S.B. Mah. 20. Cad. H Blok No:35/3 Sincan/Ankara- Türkiye
Değerlendirme Gereklilikleri	UIC 510-2:2004 Tekerlek ve Tekerlek Takımları
Değerlendirme Sonuçları	Yukarıda belirtilen değerlendirme usullerinin/örneklerin, aşağıda listelenen kriterlere ve koşullara tabi olarak, değerlendirme gerekliliklerine uygun olduğu sonucuna varılmıştır. Bulgular ayrıca değerlendirme raporunda detaylı şekilde yer almaktadır.
Kriterler / Koşullar	Değerlendirme Raporunda belirtilen ölçüye uygunluk değerlendirme farkları: Çaplar: 110mm, 120mm, 130mm, 140mm, 150mm, 160mm, 170mm, 180mm, 190mm, 200mm, 210mm, 220mm, 230mm, 240mm, 250mm, 260mm, 270mm, 280mm, 290mm, 300mm, 310mm, 320mm, 330mm, 340mm, 350mm, 360mm, 370mm, 380mm, 390mm, 400mm, 410mm, 420mm, 430mm, 440mm, 450mm, 460mm, 470mm, 480mm, 490mm, 500mm, 510mm, 520mm, 530mm, 540mm, 550mm, 560mm, 570mm, 580mm, 590mm, 600mm, 610mm, 620mm, 630mm, 640mm, 650mm, 660mm, 670mm, 680mm, 690mm, 700mm, 710mm, 720mm, 730mm, 740mm, 750mm, 760mm, 770mm, 780mm, 790mm, 800mm, 810mm, 820mm, 830mm, 840mm, 850mm, 860mm, 870mm, 880mm, 890mm, 900mm, 910mm, 920mm, 930mm, 940mm, 950mm, 960mm, 970mm, 980mm, 990mm, 1000mm, 1010mm, 1020mm, 1030mm, 1040mm, 1050mm, 1060mm, 1070mm, 1080mm, 1090mm, 1100mm, 1110mm, 1120mm, 1130mm, 1140mm, 1150mm, 1160mm, 1170mm, 1180mm, 1190mm, 1200mm, 1210mm, 1220mm, 1230mm, 1240mm, 1250mm, 1260mm, 1270mm, 1280mm, 1290mm, 1300mm, 1310mm, 1320mm, 1330mm, 1340mm, 1350mm, 1360mm, 1370mm, 1380mm, 1390mm, 1400mm, 1410mm, 1420mm, 1430mm, 1440mm, 1450mm, 1460mm, 1470mm, 1480mm, 1490mm, 1500mm, 1510mm, 1520mm, 1530mm, 1540mm, 1550mm, 1560mm, 1570mm, 1580mm, 1590mm, 1600mm, 1610mm, 1620mm, 1630mm, 1640mm, 1650mm, 1660mm, 1670mm, 1680mm, 1690mm, 1700mm, 1710mm, 1720mm, 1730mm, 1740mm, 1750mm, 1760mm, 1770mm, 1780mm, 1790mm, 1800mm, 1810mm, 1820mm, 1830mm, 1840mm, 1850mm, 1860mm, 1870mm, 1880mm, 1890mm, 1900mm, 1910mm, 1920mm, 1930mm, 1940mm, 1950mm, 1960mm, 1970mm, 1980mm, 1990mm, 2000mm, 2010mm, 2020mm, 2030mm, 2040mm, 2050mm, 2060mm, 2070mm, 2080mm, 2090mm, 2100mm, 2110mm, 2120mm, 2130mm, 2140mm, 2150mm, 2160mm, 2170mm, 2180mm, 2190mm, 2200mm, 2210mm, 2220mm, 2230mm, 2240mm, 2250mm, 2260mm, 2270mm, 2280mm, 2290mm, 2300mm, 2310mm, 2320mm, 2330mm, 2340mm, 2350mm, 2360mm, 2370mm, 2380mm, 2390mm, 2400mm, 2410mm, 2420mm, 2430mm, 2440mm, 2450mm, 2460mm, 2470mm, 2480mm, 2490mm, 2500mm, 2510mm, 2520mm, 2530mm, 2540mm, 2550mm, 2560mm, 2570mm, 2580mm, 2590mm, 2600mm, 2610mm, 2620mm, 2630mm, 2640mm, 2650mm, 2660mm, 2670mm, 2680mm, 2690mm, 2700mm, 2710mm, 2720mm, 2730mm, 2740mm, 2750mm, 2760mm, 2770mm, 2780mm, 2790mm, 2800mm, 2810mm, 2820mm, 2830mm, 2840mm, 2850mm, 2860mm, 2870mm, 2880mm, 2890mm, 2900mm, 2910mm, 2920mm, 2930mm, 2940mm, 2950mm, 2960mm, 2970mm, 2980mm, 2990mm, 3000mm, 3010mm, 3020mm, 3030mm, 3040mm, 3050mm, 3060mm, 3070mm, 3080mm, 3090mm, 3100mm, 3110mm, 3120mm, 3130mm, 3140mm, 3150mm, 3160mm, 3170mm, 3180mm, 3190mm, 3200mm, 3210mm, 3220mm, 3230mm, 3240mm, 3250mm, 3260mm, 3270mm, 3280mm, 3290mm, 3300mm, 3310mm, 3320mm, 3330mm, 3340mm, 3350mm, 3360mm, 3370mm, 3380mm, 3390mm, 3400mm, 3410mm, 3420mm, 3430mm, 3440mm, 3450mm, 3460mm, 3470mm, 3480mm, 3490mm, 3500mm, 3510mm, 3520mm, 3530mm, 3540mm, 3550mm, 3560mm, 3570mm, 3580mm, 3590mm, 3600mm, 3610mm, 3620mm, 3630mm, 3640mm, 3650mm, 3660mm, 3670mm, 3680mm, 3690mm, 3700mm, 3710mm, 3720mm, 3730mm, 3740mm, 3750mm, 3760mm, 3770mm, 3780mm, 3790mm, 3800mm, 3810mm, 3820mm, 3830mm, 3840mm, 3850mm, 3860mm, 3870mm, 3880mm, 3890mm, 3900mm, 3910mm, 3920mm, 3930mm, 3940mm, 3950mm, 3960mm, 3970mm, 3980mm, 3990mm, 4000mm, 4010mm, 4020mm, 4030mm, 4040mm, 4050mm, 4060mm, 4070mm, 4080mm, 4090mm, 4100mm, 4110mm, 4120mm, 4130mm, 4140mm, 4150mm, 4160mm, 4170mm, 4180mm, 4190mm, 4200mm, 4210mm, 4220mm, 4230mm, 4240mm, 4250mm, 4260mm, 4270mm, 4280mm, 4290mm, 4300mm, 4310mm, 4320mm, 4330mm, 4340mm, 4350mm, 4360mm, 4370mm, 4380mm, 4390mm, 4400mm, 4410mm, 4420mm, 4430mm, 4440mm, 4450mm, 4460mm, 4470mm, 4480mm, 4490mm, 4500mm, 4510mm, 4520mm, 4530mm, 4540mm, 4550mm, 4560mm, 4570mm, 4580mm, 4590mm, 4600mm, 4610mm, 4620mm, 4630mm, 4640mm, 4650mm, 4660mm, 4670mm, 4680mm, 4690mm, 4700mm, 4710mm, 4720mm, 4730mm, 4740mm, 4750mm, 4760mm, 4770mm, 4780mm, 4790mm, 4800mm, 4810mm, 4820mm, 4830mm, 4840mm, 4850mm, 4860mm, 4870mm, 4880mm, 4890mm, 4900mm, 4910mm, 4920mm, 4930mm, 4940mm, 4950mm, 4960mm, 4970mm, 4980mm, 4990mm, 5000mm, 5010mm, 5020mm, 5030mm, 5040mm, 5050mm, 5060mm, 5070mm, 5080mm, 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15630mm, 15640mm, 15650mm, 15660mm, 15670mm, 15680mm, 15690mm, 15700mm, 15710mm, 15720mm, 157

Mobile On-Rail Maintenance Excavator

[illegible]

OBW10 Poz Vehicle



Mobile Rail Laser and Mechanical Deformation Measurement Device

[illegible]

Special Purpose Tunnel Locomotive



Hydraulically Driven Catenary Line Installation Platform



Horizontal Drilling Machine



Ballast Wagon Overhaul



Platform Wagon Overhaul

[illegible]

CAT 09-32 Tamping Machine Overhaul

[illegible]

Shunting Locomotive Overhaul

[illegible]

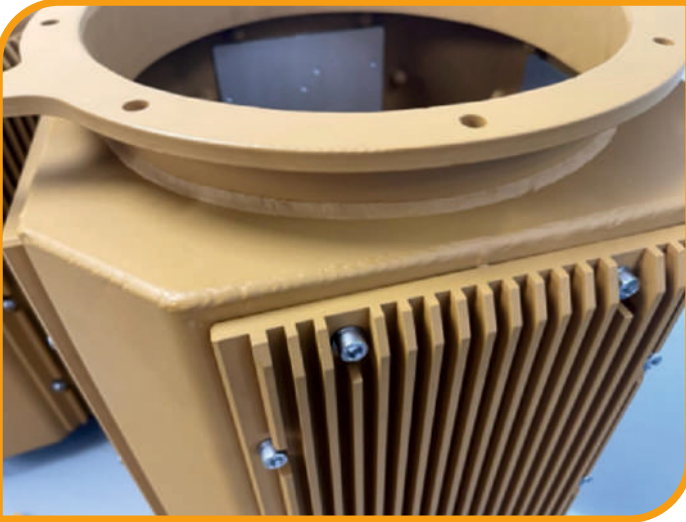
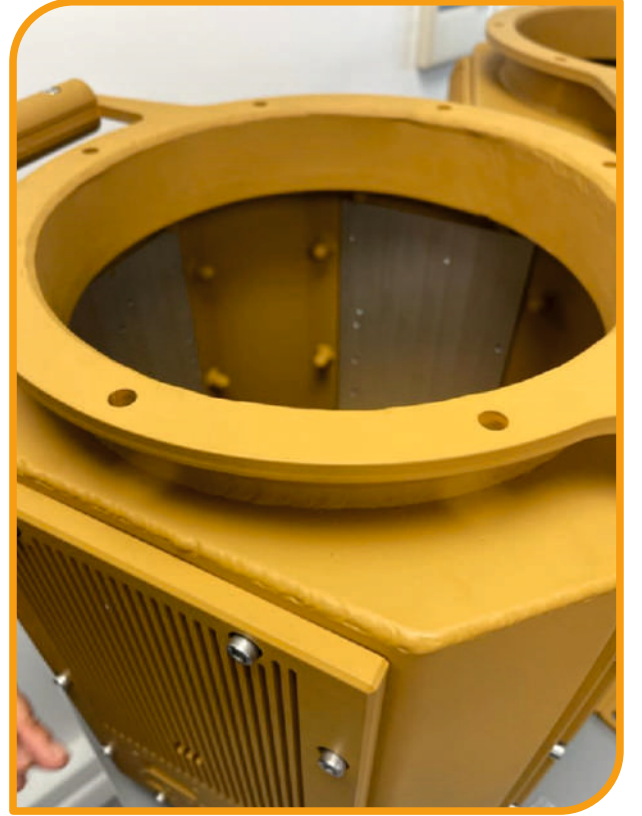
Mobile Armored Barricade



LENGTH (CLOSED)	2105 mm
WIDTH (CLOSED)	880 mm
HEIGHT (CLOSED)	1170 mm
LENGTH (OPEN)	1980 mm
WIDTH (OPEN)	2100 mm
HEIGHT (OPEN)	1620 mm
WEIGHT	754 kg
WORKING ANGLE	45 °
WORKONG TEMPERATURE	-15 °C to +50 °C
FEEDBACK	12m/min
BATTERY CAPACITY	2 x 12V 65 Ah Battery
MOVEMENT MOTOR POWER	2 x 700 W



UAV Detection Radar Body



Rocket Stand And Rocket Head Holder



REFERENCES

