

TRC

HEAVY

A COMPANY OF UZMAN GLOBAL LOGISTICS

CATALOG

TRC HEAVY IS AN INNOVATIVE AND SOLUTION-ORIENTED LOGISTICS COMPANY SPECIALIZING IN PROJECT CARGO TRANSPORTATION AS WELL AS OUT-OF-GAUGE AND HEAVY LIFT TRANSPORT.

ABOUT US



TRC Heavy is an innovative and solution-oriented logistics company specializing in project cargo transportation as well as out-of-gauge and heavy lift transport. Since our establishment, we have aimed to deliver safe, well-planned, and sustainable solutions for cargo that goes beyond the limits of standard transportation.

We provide end-to-end services for transports requiring specialized engineering, detailed route analysis, and precise operational management—primarily including industrial plant equipment, energy projects, construction, and infrastructure cargoes. Each project is approached as a unique engineering process by TRC Heavy and is meticulously planned down to the smallest detail.

With our experienced operations team, strong network of partners, and modern fleet and equipment infrastructure, we prioritize high safety standards and on-time delivery in both domestic and international transportation projects. We professionally manage all stages of the process, including regulatory compliance, permit procedures, and on-site coordination, minimizing the operational burden on our clients.

At **TRC Heavy**, our goal is not only to transport heavy cargo but also to manage the entire process and add value to each project as a reliable solution partner. Guided by trust, transparency, and an engineering-driven approach, we treat every cargo as our responsibility.



www.trcheavy.com



OUR VISION

To become the preferred solution partner for complex and high-risk transportation projects, and to establish a strong and sustainable global brand through our integrated approach that combines engineering, operations, and logistics. To build an organization in heavy lift transportation that not only meets today's demands but also anticipates and responds to the needs of the future.

OUR MISSION

To deliver reliable, transparent, and value-added solutions through tailor-made, end-to-end managed heavy lift and project cargo transportation services designed specifically to meet our clients' needs. By approaching each project as a technical responsibility and a long-term partnership, we aim to ensure maximum safety and operational efficiency.

PROJECT CARGO TRANSPORTATION

Primarily serving energy, industrial, construction, and infrastructure projects, we approach each assignment as a dedicated engineering process with its own unique dynamics. Starting with detailed feasibility studies and route analyses, we organize and manage end-to-end transportation for projects that require long-term planning and execution, delivering the safest and most efficient logistics solutions.





We meticulously plan all critical parameters, including cargo characteristics, route conditions, regulatory permits, and on-site requirements. By integrating road, sea, and multimodal transportation options, we develop the most suitable operational model for each project.

Under the scope of project cargo transportation, **TRC Heavy** goes beyond providing transport services; we act as a reliable solution partner who anticipates risks, manages the entire process, and actively contributes to the overall success of the project.

HEAVY LIFT & OUT-OF-GAUGE CARGO TRANSPORTATION

With its own fleet and specialized equipment, **TRC Heavy** ensures the safe and efficient handling of cargo that exceeds standard transportation dimensions and weight limits by delivering dedicated engineering solutions, advanced planning, and a high level of operational expertise.





Throughout the transportation process, comprehensive cargo analysis, appropriate equipment selection, and detailed route and site surveys are carried out. Each operation is meticulously planned by taking into account bridges, viaducts, road gradients, turning radii, and infrastructure constraints. All required regulatory permits, escort services, and on-site coordination are fully organized and managed by **TRC Heavy**.

Using lowbed trailers and specialized transport equipment, the loading, transportation

and delivery of high-tonnage and large-volume cargo are executed in full compliance with occupational health and safety standards. Cargo security and on-time delivery remain our top priorities throughout the operation.

In heavy lift and out-of-gauge transportation, **TRC Heavy** is not merely a transport provider, but a reliable solution partner that manages risks, controls the entire process, and adds value to every project.

ENGINEERING
SOLUTIONS
Route Survey

At **TRC Heavy**, we believe that the success of project cargo, heavy lift, and out-of-gauge transportation operations is only possible through accurate engineering analyses and detailed planning. We approach transportation not merely as a logistics activity, but as an integrated engineering process, developing tailored solutions for each project.

To ensure the safe and seamless use of transportation routes, we conduct comprehensive **Route Survey** studies. Road widths, bridge and viaduct capacities, turning points, gradients, and infrastructure constraints are analyzed in detail to identify the most suitable and secure routes.

Route Survey

01

02

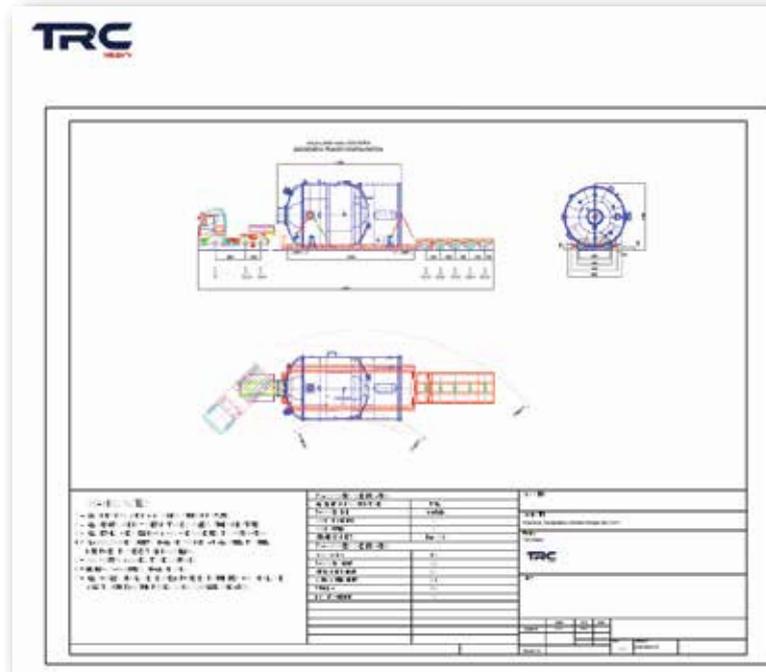


Method of Statement documents are prepared to cover all stages of the operation, clearly and systematically defining how loading, transportation, unloading, and on-site activities will be carried out. These studies are completed in full compliance with occupational health and safety standards.

To ensure safe passage, particularly in confined areas and during critical maneuvers, we perform Turning Radius analyses. By simulating turning scenarios based on the vehicles and equipment to be used, potential risks are identified and mitigated in advance.

Method of Statement

01



To maintain optimal cargo safety during transportation, we carry out detailed **Lashing Calculations**. Taking into account cargo weight, center of gravity, direction of transport, and dynamic forces, we design securing systems and develop solutions in accordance with international standards.

Through its engineering solutions, **TRC Heavy** aims not only to execute transportation operations, but to manage projects as a whole in a safe, efficient, and fully controlled manner.

Lashing Calculations

01

02

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LASHING NOTES

- It is planned to use 8 chains for the transportation of the relevant item
- The angle of the chains to be tied down to the front will be 50°, and the angle of the chains to be tied down to the rear will be 45°
- Minimum working load limit (WLL) of each lashing chain is 2.25 tons according to the EN 1471-2. (Lashing specifications provided in the further pages)
- Cargo weight is 48,9 tons
- Coefficient of friction is considered as 0.8
- Coefficient of the gravity is 9,81 N/kg

LASHING CALCULATIONS

SORUŞAŞ:

The Down Force: $WLL \times \sin(\text{tethering degree}) = \text{tethering point}$
 Horizontal Force: $WLL \times \cos(\text{tethering degree}) = \text{tethering point}$
 Friction Force: $\text{Coefficient of Friction} \times \text{Cargo Weight} = \text{The Down Force}$

The Down Force (front): $2,25 \times \sin(50^\circ) = 1,74 \times 0,87 = 1,515 \text{ tons}$
 The Down Force (rear): $2,25 \times \sin(45^\circ) = 1,74 \times 0,77 = 1,34 \text{ tons}$
 Horizontal Force (front): $2,25 \times \cos(50^\circ) = 1,4 \times 0,64 = 0,9 \text{ tons}$
 Horizontal Force (rear): $2,25 \times \cos(45^\circ) = 1,4 \times 0,77 = 1,07 \text{ tons}$
 Friction Force (front): $0,8 \times (48,9 \times 9,81) = 38,27 \text{ tons}$
 Friction Force (rear): $0,8 \times (48,9 \times 9,81) = 38,27 \text{ tons}$
 Weight (G): $48,9 \times 9,81 = 479,71 \text{ tons}$

- 7 different forces impact the cargo (as illustrated on the next page). All chains have different effects at each force.
- Since it is planned to use 8 chains in total (8 = 2,25 = 2,25), the chains will have sufficient effect at all forces. Therefore, the lashing will be sufficient.

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ACTING FORCES

The diagram shows a 3D perspective of a cargo being transported on a truck. Various force vectors are applied to the cargo, including tension from lashing chains, gravity, and friction. The forces are color-coded and labeled with their respective values and directions.

SERVICE REGIONS

Supported by a strong operational network and international partnerships, we provide project cargo and heavy lift transportation services across a wide geographical area. With in-depth knowledge of regional regulations, detailed route analyses, and extensive operational experience within our service regions, we ensure safe, well-planned, and on-time deliveries in multiple countries.

Through our service network extending from Europe to the Middle East, we offer flexible and integrated logistics solutions for third-country transit, export, and import transportation, tailored to our clients' international project requirements.



EUROPE

- Netherlands
- Belgium
- Germany
- France
- Italy
- Spain
- Portugal
- United Kingdom
- Sweden
- Finland
- Estonia
- Latvia
- Lithuania

- Belarus
- Poland
- Czech Republic
- Austria
- Slovenia
- Slovakia
- Hungary
- Croatia
- Serbia
- Romania
- Bulgaria
- Greece

RUSSIA

- Russia

MIDDLE EAST

- Iraq
- Iran

CAUCASUS

- Georgia
- Armenia
- Azerbaijan

TURKIC REPUBLICS

- Kazakhstan
- Turkmenistan
- Uzbekistan
- Tajikistan
- Kyrgyzstan

FLEET & EQUIPMENT



TRC Heavy possesses a modern and robust fleet and equipment infrastructure designed to meet all operational requirements of heavy lift and out-of-gauge transportation. Our fleet can be project-specifically configured, offering safe, flexible, and efficient transport solutions for cargo of varying weights and dimensions.

All vehicles and equipment used in our operations comply with international standards and are subject to regular maintenance and inspections to ensure maximum safety and performance.





The vehicles and equipment within our fleet include:

01 6x4, 6x2 & 4x2 Prime Movers

02 8-Axle Hydraulic Steerable Telescopic Lowbed

03 6-Axle Hydraulic Steerable Telescopic Lowbed

04 5-Axle Hydraulic Steerable Telescopic Lowbed

05 5-Axle Hydraulic Steerable Telescopic Lowbed

06 4-Axle Hydraulic Steerable Telescopic Lowbed

07 4-Axle Hydraulic Steerable Beam-Linked Low Loader

08 4-Axle Platform Lowbed

09 3-Axle Hydraulic Steerable Beam-Linked Low Loader

10 3-Axle Platform Lowbed



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