

TRANSPORT BASKET

CONSTRUCTION SITE DEVICE



TECHNICAL DOCUMENTATION

ATTENTION !

BEFORE EVERY USE OF THE CONSTRUCTION SITE DEVICE – THE TRANSPORT BASKET, THE USER SHALL READ THIS TECHNICAL DOCUMENTATION AND ALWAYS STRICTLY FOLLOW THE RULES DESCRIBED HEREIN. THESE INSTRUCTIONS WERE PREPARED FOR ALL WORKERS AND PEOPLE THAT WILL BE WORKING ON TRANSPORTING, UNLOADING, ASSEMBLING, DISASSEMBLING, STORING, CHECKING AND PERFORMING ANY OTHER WORKS CONNECTED TO THE DEVICE. EVERY USER IS OBLIGED TO READ AND GET FAMILIAR WITH THE DEVICE'S TECHNICAL DOCUMENTATION!

CONTENTS:

| | |
|-----|--|
| | INTRODUCTION |
| 1.0 | MANUFACTURING BASIS |
| 2.0 | OPERATING MANUAL |
| 2.1 | TERMINOLOGY AND DEFINITIONS |
| 2.2 | PURPOSE AND SCOPE OF USAGE |
| 2.3 | ALLOWED WORKING PARAMETERS |
| 2.4 | RULES FOR SAFE OPERATION |
| 2.5 | SYSTEM'S CHECK |
| | QUICK CHECK |
| | DETAILED CHECK |
| | PERIODICAL CHECK |
| | PERIODICAL CHECK EXPIRATION DATE |
| 2.6 | MAINTENANCE |
| 2.7 | USERS' QUALIFICATIONS |
| 2.8 | CONNECTING THE TRANSPORT BASKET WITH A SLING. |
| 2.9 | USE OF THE TRANSPORT BASKET |
| 3.0 | DEVICE'S REGISTER |
| 4.0 | RATING PLATE |
| 5.0 | TABLE: DANGER ☒ RISK ☒ PROTECTION |
| 6.0 | TECHNICAL DOCUMENTATION, GENERAL DESCRIPTION OF THE TRANSPORT BASKET |
| 6.1 | DIMENSIONS, THREE TYPES OF TRANSPORT BASKETS |
| 7.0 | DESIGNER'S STATEMENT |
| | EU DECLARATION OF CONFORMITY |



INTRODUCTION

This technical documentation contains the guidelines concerning the proper use of THE TRANSPORT BASKET. Workers and other people using the device shall always observe the guidelines contained herein. In case of any events not described in this document, the occupational safety and health regulations and other regulations, appropriate to the specific situation, shall be observed. The device shall not be modified and no constructional changes shall be introduced to it. The manufacturer is not responsible for introducing any constructional changes to the device (and the results of such actions) by people who are not allowed to do it.

2.0 MANUFACTURING BASIS

The manufacturing basis for the CONSTRUCTION SITE DEVICE – THE TRANSPORT BASKET is increasing the safety and comfort of workers while performing works connected to the vertical and horizontal transport of materials, i.e. hardcore, garbage, equipment, tools, mortar etc. The project of the TRANSPORT BASKET was prepared in accordance with the binding laws and technical standards:

| | |
|------------------------|--|
| EN 1090-1+A1:2012; | Technical requirements for the execution of steel and aluminum structures, Part 1: The principles for assessing the compliance of constructional elements, |
| EN 1090-2:2018- 09; | Technical requirements for the execution of steel and aluminum structures, Part 2: Technical requirements concerning the steel constructions, |
| EN ISO 3834-2:2021-09; | Quality requirements for the welding of metal materials, Part 2: Full quality requirements. |



2.0 OPERATING MANUAL

2.1 TERMS AND DEFINITIONS

Construction site device:

A technical device connected to a building object and providing the possibility to use the object in accordance with its purpose. Within the meaning of this document, this definition refers to the device connected to a building object during its construction. It is a set of elements, connected in such a way that allows to safely transport materials between working areas and the places of storing those materials.

The operations performed by a worker are limited to connecting and disassembling the crane's slings and to the operations performed by a crane's operator.

Transport basket:

The general name of the device that is available in a few versions which differ in terms of their design and adjustment to different elements (when it comes to their parameters and features) that are transported. Because of different transported materials, we can distinguish a few types of transport baskets:

Openwork – without covered side walls. They allow to transport elements bigger than the basket itself.

Mesh – side walls are covered with a steel mesh which protects small objects during transportation. They have an upper frame that reinforces the attachment field of the transport slings.

Full – where side walls are covered with full metal sheet which protects small objects during transportation. They have an upper frame that reinforces the attachment field of the transport slings.

Foldout – where at least one side wall can be disassembled or tilted. The foldout baskets can have both mesh and full side walls.

Pallet baskets – special-purpose baskets used for the unloading of lorries, e.g. pallets.

Hook or sling holder:

An element to which the crane hook or transport sling is attached.

2.2 PURPOSE AND SCOPE OF USAGE

The transport basket is used for transporting different elements/equipment/materials that are used for a variety of purposes and thus are characterized by different dimensions, structure, weight and other features. Depending on the user's needs, different constructional solutions, as defined above, can be applied.

The transport basket allows to perform the safe unloading of materials by the operator of a crane, a forklift truck, a loading machine etc.

This solution increases the safety at a construction site and lowers the risk of accidents.

When used with an unloading platform, the transport basket ensures the possibility to transport materials with a pallet truck to any place at a construction site.

The use of the TRANSPORT BASKET is allowed only on condition of adhering to this Technical Documentation and proper occupational safety and health regulations.



2.3 ALLOWED WORKING PARAMETERS

The transport basket is a set of elements connected within a constructional device that allows to safely transport and unload materials between different working areas.

The knowledge about the operating principles and the limitations of the devices is necessary for its safe operation.

Due to the fact that mechanical transport within the working area (where installation, dismantling and demolition works are performed) demands the use of slings, such processes are deemed to be highly dangerous.

The first and foremost condition to start and perform any works with the use of slings is adhering to the Instructions of Safe Work (ISW), prepared on the basis of the risk assessment for a given task.

Only people holding required qualifications and experience, as well as those who finished a training for hook whistleblowers, are allowed to operate and use the transport basket, slings and a crane's hook.

Only certified, operational and containing the manufacturer's instruction slings are allowed to be used.

The slings must be clearly marked and their technical condition must be controlled within the scope and dates described in the Technical Documentation.



2.4 RULES FOR SAFE OPERATION

During the operation of the TRANSPORT BASKET, workers shall bear in mind the safety of the users, any personnel or people that may be affected by the operation of the device.

The TRANSPORT BASKET is intended solely for the purposes described in this manual. Any operation not in compliance with the manual is forbidden by the producer.

The transport basket is used for transporting different elements/equipment/materials which influence the type of the basket that should be chosen. The basket shall ensure safe transportation and minimize the risk of a fall.

Before using the device the worker shall read this manual.

Any improper use of the device poses a risk for the user as well as other people near the user.

Before using the TRANSPORT BASKET, the users shall read the Technical Documentation.

- The users shall not stay close to the transport basket when the transport is being performed.
- The users shall wear proper personal protective equipment.
- Only people having the required qualifications and experience, as well as those who finished a training for hook whistleblowers, are allowed to operate and use the transport basket, slings and a crane's hook.
- The users shall remove any elements not connected to a given work which may pose a threat (cables, hoses, unnecessary material).
- Only one transport basket can be attached to one sling.
- The crane's hook shall be equipped with the measures protecting the sling from falling out of the hook. The efficiency of the protection shall be controlled after every time the sling is attached to the hook.
- The slings shall be connected only to the holders placed on the wall's vertical poles. It is not allowed to attach the sling around the basket's constructional elements. It may lead to an uncontrolled slipping of the sling's loop. It may pose a direct danger to health or life.
- Elements not delivered with the complete unloading platform shall not be attached to the basket. It may have a negative impact on mechanical parameters and affect the operational safety.
- During the transport, workers shall act carefully in order to avoid possible impact to the constructional elements. In case of damaging any elements of the basket, the basket must be immediately withdrawn from further operation.
- Any works connected to the mechanical transport with the use of slings etc. are deemed to be highly dangerous. The basic document stating the conditions to start and perform any works with the use of the slings is



The Instructions of Safe Work (ISW), prepared on the basis of the risk assessment for a given task.

- The device shall not be used for provisional transport of people and dangerous/unstable material.
- If the device shall be transported with a crane and workers shall pay special attention to any movements of the crane and keep safe distance from it.
- Introducing any changes to the device/system demands a written consent from the manufacturer. Any repairs of the elements of the device must be performed in accordance with the procedures determined by the manufacturer.
- In case of selling the transport basket abroad (to a different country than the country where it was intended to be used in), the seller shall provide the operation, maintenance and periodical inspection instructions in the language of a country where the equipment is to be used.



2.5 SYSTEM'S CHECK

QUICK INSPECTION

Before each use of the device, its technical condition shall be checked in terms of:

- completeness of components,
- no damages to any welds,
- any bent, broken, cut or otherwise damaged elements,
- check the product's markings, its readability, lack of damages (i.e. they are not wiped, broken etc.).

If any of these requirements are not met, the user shall stop using the device and inform the manufacturer about the need to perform a detailed check.

DETAILED CHECK

The detailed check of the device shall be performed by the manufacturer or any appropriate entity:

- always before delivering the device to a construction site,
 - after 12 months of using,
 - always when the device has not been used for longer than 3 months,
 - after every information from the user about the need to perform the detailed check.
- For the detailed check, performed at the request of the user, shall be charged a fee.

PERIODICAL CHECK

In order to provide proper operation and safety of the device, the periodical check of the system shall be performed at least once every 12 months (each element that is included in the device).
The check must be performed by a competent person holding proper authorizations.



PERIODICAL CHECK EXPIRATION DATE

The periodical check expiration date is clearly marked on the outer edge of the check label [term (year and month) of the next check]



2.6 MAINTENANCE

Parts of the transport basket are covered with zinc. While cleaning and performing the maintenance of the elements, always shall be used substances that do not react with the protective coating.

In case of any chips, they shall be filled with proper lacquer coating.

2.7 USERS' QUALIFICATIONS: Workers operating the system should:

- read the whole Technical Documentation of the device – the training must be confirmed in writing;
- finish a training on the occupational safety and health;
- undergo a training about using the personal and collective protective equipment;
- only people holding required qualifications and experience, as well as those who finished a training for hook whistleblowers, are allowed to operate and use the transport basket, slings and a crane's hook.



2.8 CONNECTING THE TRANSPORT BASKET WITH A SLING.

- Connecting the TRANSPORT BASKET with a sling and a crane's hook shall only be performed by people holding required qualifications and experience, as well as those who finished a training for hook whistleblowers.
- The crane's sling may only be attached in a place that was designed for it – hook or sling holder.
- The crane's hook shall be equipped with the measures protecting the sling from falling out of the hook. The efficiency of the protection shall be controlled after every time the sling is attached to the hook.
- During any works performed with slings, the workers shall avoid its rapid burdening or releasing.

The workers shall check if:

- the slings are certified, properly marked, do not contain any visible defects and are proper for transporting the system's elements,
- flexible connectors are not twisted or tied up,
- the connection between a sling and a hook is solid and blocked / protected against falling out of the hook,
- the crane's hook is complete.

2.9 THE USE OF THE TRANSPORT BASKET

During the use of the transport basket, the workers shall meet all the requirements described in the Technical Documentation and in any laws and regulations that apply.



3.0 DEVICE'S REGISTER

| DEVICE'S REGISTER | | | | |
|--|--------------------------------------|--|---|-------------------------------|
| Name of the product: | | | | |
| Model and type / identification: | | Trade name: | | ID No.: |
| Producer: | | Address: | | Phone, e-mail, web page: |
| Date of production / Date of expiry | | Date of purchase: | | Date of the first use: |
| Other important information (e.g. document No.): | | | | |
| PERIODICAL CHECKS AND THE HISTORY OF REPAIRS | | | | |
| Date: | Reason (periodical check or repair): | Defects found, repairs performed and other relevant information: | Name and signature of a competent person: | Periodical check – next term: |
| | | | | |
| | | | | |



| PERIODICAL CHECKS AND THE HISTORY OF REPAIRS | | | | |
|--|--------------------------------------|--|---|-------------------------------|
| Date: | Reason (periodical check or repair): | Defects found, repairs performed and other relevant information: | Name and signature of a competent person: | Periodical check – next term: |
| | | | | |
| | | | | |
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4.0 RATING PLATE

| | |
|---|--|
|  CONSTRUCTION SITE DEVICE | |
| Name / Type: | TRANSPORT BASKET |
| Serial number: | 025 |
| Year of production: | 2023 |
| Weight: | ___ kg |
| EN 1090-1+A1:2012 | |
|  | |
| STRUMIN Sp. z o. o. Sp. k. 32-084 MORAWICA, Aleksandrowice 17 | |
|  | <i>Max. lifting capacity 1.1 T</i> |
|  | <i>Read the safety instruction / User manual</i> |
|  | <i>Use personal protective equipment (PPE)</i> |
|  | <i>Use personal protective equipment (PPE)</i> |

- The information contained on a rating plate allow to precisely identify each device based on its ID/Serial number.
- All documents attached to the device, such as the device's register after check or the operating manual, are related to the ID / serial No. on the device in order to avoid any mistakes.
- The warning field on the rating plate informs, with the use of text and symbols, about possible dangers when the device is working.

Dangers

- Act accordingly to the safety instructions and use personal protective equipment (PPE)



5.0 TABLE: DANGER ☒ RISK ☒ PROTECTION

| No. | DANGER | RISK | RISK ASSESSMENT | PROTECTION MEASURES |
|-----|--------------------------------------|---|---|---|
| 1 | NOT SUFFICIENT MECHANICAL DURABILITY | Using a damaged or destroyed sling. | Fall of the device. Danger to health and life. | Control and properly store the slings. |
| | | Damaging or destroying the slings' holders due to overloading. | Fall of the device. Danger to health and life. | Do not exceed max. allowed load capacity. Use in accordance with the technical documentation. |
| | | Damaging or destroying the device due to not sufficient lifting power of a crane. | Fall of the device from height. Danger to health and life. | Transport only with a crane of sufficient lifting power. |
| 2 | Smashing, squashing | Putting or placing a foot, a hand or other part the body under the device while its lowering. | Cutting, smashing, injuring or scraping part of the body. Danger to health and life. | Stand in a safe distance from the basket during its lowering. Use proper personal protective equipment. |
| | | Moving of the device through holes and gates. | Smashing or Bunging the device. Danger to health and life. | Take necessary measures before moving through narrow holes. |
| 3 | Hitting | A worker standing to close to the working device during its lifting, placing, lowering etc. | Hitting the device with head or other body parts. Danger to health and life. | Use in accordance with its purpose, read the Technical Documentation. Apply proper personal protective equipment. |
| | | Improper placing the transported material inside the basket. | Hitting with head or other body parts. Danger to health and life. | Use in accordance with its purpose, read the Technical Documentation. Apply proper personal protective equipment. |



| | | | | |
|---|---------------------------|--|---|--|
| 3 | HITTING | Too high lifting speed and the speed of moving the device by a crane. | Hitting the device with one's head / other body parts. Hitting the head or any other part of the body with falling objects. Danger to health and life. | Automatic crane's speed limiter while moving the device (speed shall not exceed 1.0 m/s) and performing operations in a smooth manner by a crane's operator. Wear proper personal protective equipment. |
| | | Shakes or vibrations. Dynamic loads of the device. | Hitting the device with one's head / other body parts. Hitting the head or any other part of the body with falling objects. Danger to health and life. | Proper, smooth control of a crane's movement by its operator. Checking the flexible connectors of a sling. Proper stretch of flexible connectors. Wear proper personal protective equipment. |
| 4 | CONTACT WITH MOVING PARTS | Careless operating of the basket. | Smashing, cutting or breaking of limbs due to hitting. | Use in accordance with the Technical Documentation, follow the occupational safety and health regulations. |
| 5 | FALLING OBJECTS | Improper securing of the transported material. | Hitting, breaking, injuring or burning any part of the body. Danger to health and life. | Wear proper personal protective equipment. Define the safe work's system, follow the occupational safety and health regulations. |
| 6 | ENVIRONMENTAL CONDITIONS | Hitting by a lightning. | Electrocuting, burning. Danger to health and life. | Do not use the device during storms. |
| | | Wind | Tripping, uncontrolled swivel of the device. Danger to health and life. | Do not use the device when the wind speed exceeds 7 m/s. |
| 7 | ENVIRONMENTAL CONDITIONS | Icing, rainfall, snow or other adverse weather conditions. | Limitation of visibility. Slip, danger to health and life. | Do not use the device during adverse weather conditions. |
| | | Temperature | Possible discomfort while moving. Danger to health and life. | Use in temperatures from -10 to +40°C. Wear proper personal protective equipment. |
| 8 | WELDING WORKS | Electrical breakdown | Electrocuting, burning. Danger to health and life. | Provide earthing of the device, protect brackets of the electrodes from contact with the construction and other metal elements. Wear proper personal protective equipment. |
| 9 | CHEMICAL | Using aggressive cleaning agents for the cleaning and maintenance of the device. | Possibility to burn any parts of the body and pollute the environment. | Do not use aggressive cleaning agents that may cause: burning, destroying the lacquered layers, steel corrosion and pollution of the environment. |



6.0 TECHNICAL DOCUMENTATION, GENERAL DESCRIPTION OF THE TRANSPORT BASKET

The transport basket is a steel construction consisting of a few basic elements:

- SLINGS' HOLDERS
- WALLS' POLES
- LOWER FRAME
- UPPER FRAME
- BOTTOM
- FILLING
- "TRANSPORT" FEET

the TRANSPORT BASKET is available in a few types of different construction, based on the character and technical parameters of the transported materials. Reading the main rules of this device's operation allows to use it in an easy and smooth manner.



6.1 DIMENSIONS, THREE TYPES OF TRANSPORT BASKETS

| Cat. No. | Name | W [m] | H [m] | Weight [kg] | Load capacity [kg] |
|----------|-------------------|-----------|-------|-------------|--------------------|
| 6210 | OPENWORK BASKET | 1.27/0.87 | 0.82 | 30 | 1100 |
| 6220 | MESH BASKET | 1.27/0.87 | 0.82 | 30 | 1100 |
| 6230 | FULL/STEEL BASKET | 1.27/0.87 | 0.82 | 60 | 1100 |



7.0 DESIGNER'S STATEMENT

According to art. 20(4) of the "Building Code" I hereby declare that
this project documentation
of the constructional part of the transport basket

was drawn in accordance *with the provisions of the code, rules and guidelines of technical knowledge (art. 20 point 4 of the 16 April 2004 Act, amending the 7 July 1994 Act – "Building Code" Journal of Laws no. 6, pos. 41/2004)*, binding technical and building provisions, as well as Polish and European Standards, and was handed in full to serve its purpose.

mgr inż. Jan Bąba
Uprawnienia budowlane do projektowania
i kierowania robotami budowlanymi
bez ograniczeń w specjalności
konstrukcyjno-budowlanej
czytelny podpis w procesie projektanta

Projektant

designer's readable signature and seal



EU DECLARATION OF CONFORMITY NO.:

1. The "transport basket" construction site device (serial No.),
2. Name and address of the manufacturer:
STRUMIN Sp. z o. o. Sp. k., Aleksandrowice 17,
32-084 MORAWICA, TIN: 513-024-97-17.
3. This declaration was issued for the sole responsibility of the manufacturer: STRUMIN Sp. z o. o. Sp. k.
4. Object of the declaration: The "transport basket" construction site device as described in the Technical Documentation in the appendices No. 1 and 2 to this declaration:
"TECHNICAL DOCUMENTATION OF THE TRANSPORT BASKET – OPERATING MANUAL – EN.pdf"
5. The object of this declaration described in 4 herein complies with the provisions of the EU's standards.
6. References to the standards describing the declared compliance:

The project of the transport basket construction site device was prepared in accordance with the current laws and technical standards:

| | |
|------------------------|--|
| EN 1090-1+A1:2012; | Technical requirements for the execution of steel and aluminum structures, Part 1: The principles for assessing the compliance of constructional elements, |
| EN 1090-2:2018-09, | Technical requirements for the execution of steel and aluminum structures, Part 2: Technical requirements concerning the steel constructions, |
| EN ISO 3834-2:2021-09; | Quality requirements for the welding of metal materials, Part 2: Full quality requirements. |

7. The object of this declaration, described in Point 4. herein, complies with the type, in accordance with the Company's production inspection system No. ZKP/STRUMIN/01 and the rules of the supervised product inspections in random time intervals.

Signing on behalf of: Kamil Strumiński, STRUMIN Sp. z o. o. Sp. k.

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(place and date of issuing):
MORAWICA
April 10, 2023

