

“MOULD” DUMPER CONTAINER

CONSTRUCTION SITE DEVICE



TECHNICAL DOCUMENTATION

ATTENTION !

BEFORE EVERY USE OF THE CONSTRUCTION SITE DEVICE – “MOULD” DUMPER CONTAINER, 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 WORK 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	USER 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 DUMPER CONTAINER WITH A SLING.
2.9	USING THE DUMPER CONTAINER.
3.0	DEVICE'S REGISTER
4.0	RATING PLATE – LARGE MOULD
4.1	RATING PLATE – SMALL MOULD
5.0	TABLE: DANGER → RISK → PROTECTION
6.0	DESIGNER'S STATEMENT
	EU DECLARATION OF CONFORMITY



INTRODUCTION

This technical documentation contains the guidelines concerning the proper use of THE “MOULD” DUMPER CONTAINER. 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 a specific situation, shall be observed. The device shall not be modified and no constructional changes shall be introduced in it. The manufacturer is not responsible for introducing any constructional changes to the device by people who are not allowed to do it.

2.0 MANUFACTURING BASIS

The manufacturing basis for the CONSTRUCTION SITE DEVICE – “MOULD” DUMPER CONTAINER is increasing the safety and comfort of workers while performing works connected to vertical and horizontal transport of materials, i.e. hardcore, garbage, equipment, tools, mortar etc.

The project of the container was prepared in accordance with the current laws and technical standards:

EN 1090--1:2009+A1:2011,	Technical requirements for the execution of steel and aluminium structures, Part 1: The principles for assessing the compliance of constructional elements,
EN 1090--2:2008+A1:2011,	Technical requirements for the execution of steel and aluminium structures, Part 2: Technical requirements concerning the steel constructions,
EN ISO 3834--2:2007;	Quality requirements for the welding of metal materials,



2.0 USER MANUAL

2.1 TERMINOLOGY 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, the definition refers to the device connected to a building object during its construction. It is a set of elements working together that allow to open and close the container with simple operations performed by the operator, e.g. the operator of a crane or a forklift, without the need to engage additional people.

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

Container:

A part of a device: „Mould” dumper container which is a container in which materials for transport/unloading are stored.

Moveable arm:

An element which is used to move the load from the container to a crane's hook and/or a sling. It is used to perform the process of locking/unlocking the container (loading – transporting – unloading).

Hook or sling holder:

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

2.2 PURPOSE AND SCOPE OF USAGE

Dumper container – “Mould”, used for transporting elements/materials, i.e. hardcore, garbage, equipment, tools, mortar etc.

The dumper container allows to perform safe unloading of materials by the operator of a crane, forklift truck, 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 dumper container ensures the possibility to transport material with a pallet truck into any place at a construction site.

The use of the DUMPER CONTAINER – “MOULD” is allowed only on condition of adhering to this Technical Documentation and proper occupational safety and health regulations.



2.3 ALLOWED WORKING PARAMETERS

A container with a moveable arm and a hook's (or slings') holder is a system of elements cooperating within a constructional device that allows to safely transport and unload materials between different working areas.

The knowledge of the rules of its operation and limitations of the system 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 having the necessary experience, as well as those who finished a training for hook whistleblowers, are allowed to operate and use the dumper container, slings and a crane's hook.

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

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



2.4 RULES FOR SAFE OPERATION

During the operation of the DUMPER CONTAINER, 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 DUMPER CONTAINER is intended solely for the purposes described in this manual. Any operation not in compliance with the manual is forbidden by the producer.

The DUMPER CONTAINER is intended for transporting elements/materials, i.e. hardcore, garbage, equipment, tools, mortar etc.

Before using the device, the user shall read this manual.

Improper use of the device poses a threat of an accident for the user and other people standing close to the user.

Before using the DUMPER CONTAINER, the users shall read the Technical Documentation of the system.

- Shall not stay close to the dumper container during its transport,
- Shall wear proper personal 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 dumper container, slings and a crane's hook,
- Shall remove any elements not connected to the given work which may pose a threat (cables, hoses, unnecessary material).
- Only one dumper container 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.
- Attaching a hook or slings can be performed only to the hook's holder on the moveable arm. It is not allowed to attach a sling around the horizontal balk of the upper arm. It may lead to an uncontrolled slipping of the sling's loop along the moveable arm. It may pose a direct danger to the user's health or life.
- Elements not delivered with the complete unloading platform shall not be attached to the mould. 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 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 slings is adhering to 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 is transported with a crane, workers shall pay special attention to any movements of a crane and keep safe distance from it.
- introducing any changes and complementing 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 declared by the manufacturer.
- In case of selling the dumper container 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 CHECK

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

- completeness of components,
- completeness of components joining the arm with the container,
- 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

The elements of the DUMPER CONTAINER are protected with lacquer.

While cleaning and performing the maintenance of the elements there shall always be used substances that do not react with lacquer.

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 dumper container, slings and a crane's hook.



2.8 CONNECTING THE DUMPER CONTAINER WITH A SLING

- Connecting the DUMPER CONTAINER 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 attested and do not contain any visible defects and can be used for transporting the elements of the system,
 - 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 DUMPER CONTAINER

During the use of the dumper container, 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 No., e-mail, web page:
Date of production / Date of expiry		Date of purchase:		The 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:



4.0 RATING PLATE – LARGE MOULD

 CONSTRUCTION SITE DEVICE	
Name / Type:	DUMPER COINTAINER "LARGE MOULD"
Serial number:	025
Year of production:	2022
Weight:	135 kg
EN 1090-1:2009+A1:2011	
	
P.P.H.U STRUMIN 32-084 MORAWICA 191	
<i>Max. lifting capacity 2.5 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 user 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)



4.1 RATING PLATE – SMALL MOULD

 CONSTRUCTION SITE DEVICE	
Name / Type:	DUMPER COINTAINER "SMALL MOULD"
Serial number:	025
Year of production:	2022
Weight:	115 kg
EN 1090-1:2009+A1:2011 	
P.P.H.U STRUMIN 32-084 MORAWICA 191	
<i>Max. lifting capacity 1.8 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 user 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 moveable arm 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, placing a foot, a hand or other part the body under the device while its lowering.	Cutting, smashing, Injuring, scraping part of the body. Danger to health and life.	Stand in a safe distance from the container during its lowering. Use proper personal protective equipment.
		Moving of the device through holes and gates.	Smashing or bunting device. Danger to health and life	Take necessary measures before moving through narrow holes.
3	Hitting	A worker standing within the working area of the device during lifting placing, lowering etc.	Hitting with a head or other body parts by the device. Danger to health and Life.	Use in accordance with its purpose, read the Technical Documentation. Use proper personal protective equipment.
		Improper Placing the transported material inside the container.	Hitting with a head or other body parts by falling objects. Danger to health and Life.	Use in accordance with its purpose, read the Technical Documentation. Use 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 by falling objects. Danger to health and life.	Automatic crane's speed limiter while moving the platform (speed shall not exceed 1.0 m/s) and performing operations in a smooth manner by a crane's operator. Use proper personal protective equipment.
		Shakes or vibrations. Dynamic loads on the platform.	Hitting the device with one's head / other body parts. Hitting the head or any other part of the body by falling objects. Danger to health and life.	Proper, smooth control of a crane's movement by its operator. Checking flexible connectors of a sling. Proper stretch of flexible connectors. Wear proper personal protective equipment.
4	CONTACT WITH MOVING PARTS	Not careful operation of the moveable arm.	Smashing, cutting or the breaking of limbs due to being hit by a moveable arm.	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	CONDITIONS – ENVIRONMENTAL	Hitting by a lightning.	Electrocuting, burning. Danger to health and life.	Do not use the device during storms and lightning
		Wind	Tripping, uncontrolled swivel of the device. Danger to health and life.	Do not use the device when the speed of the wind exceeds 7 m/s.
7	CONDITIONS – ENVIRONMENTAL	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. Use proper personal protective equipment.
9	CHEMICAL	Using aggressive cleaning agents for the cleaning and maintenance of the device.	The possibility of burning any part of the body and pollute the environment.	Do not use aggressive cleaning agents that may cause: burning, destroying lacquered layers, steel corrosion and pollution of the environment.



6.0 DESIGNER'S STATEMENT

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

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 i pieczęć projektanta

Projektant

designer's readable signature and seal



EU DECLARATION OF CONFORMITY NO.:

1. Construction site device: "Mould" dumper container (Serial No.:),
2. Name and address of the manufacturer:
PPHU STRUMIN, Kamil Strumiński, 32--084 MORAWICA Morawica
191, TIN: 944 21 77 757,
3. This declaration was issued for the sole responsibility of the manufacturer: PPHU STRUMIN, Kamil Strumiński,
4. Object of the declaration: 1. The construction site device: "Mould" dumper container (Serial No.: as described in the Technical Documentation in the appendices no. 1 and 2 to this declaration:
"Technical documentation of the dumper container – Mould – user manual – PL.pdf"
"Technical documentation of the dumper container – Mould – operating manual – PL.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 construction site device – dumper container was drawn in accordance with the applicable laws and technical norms:

EN 1090--1:2009+A1:2011,	Technical requirements for the execution of steel and aluminium structures, Part 1: The principles for assessing the compliance of constructional elements,
EN 1090--2:2008+A1:2011,	Technical requirements for the execution of steel and aluminium structures, Part 2: Technical requirements concerning the steel constructions,
EN ISO 3834--2:2007;	Quality requirements for the welding of metal materials,

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, PPHU STRUMIN

Przedsiębiorstwo Produkcyjno Handlowo
Usługowe **STRUMIN**
Kamil Strumiński Morawica 191
32-084 Morawica
NIP 944-21-77-757 REGON 120827987
tel. 515 488 585 STRUMIN.PL



(place and date of issuing):
MORAWICA
03-12-2021

