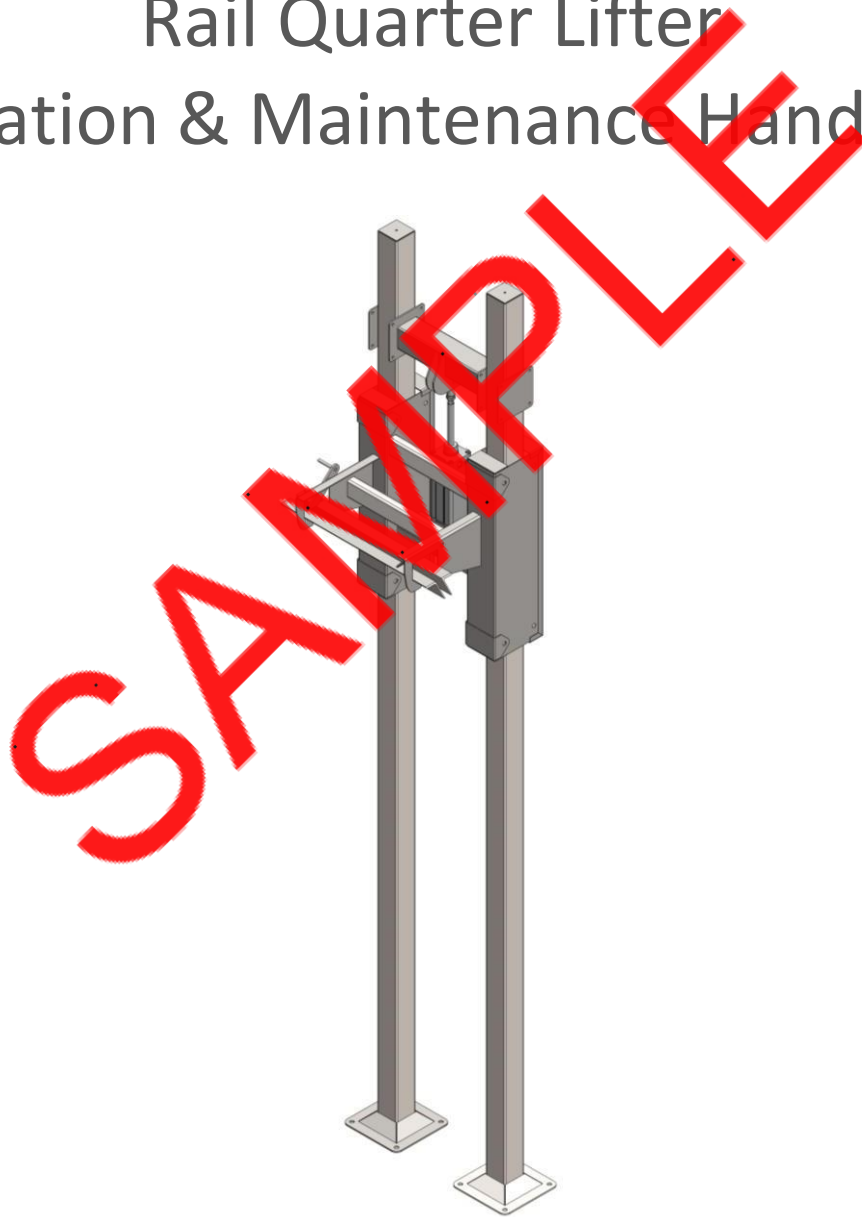




INVICTAS  
ENGINEERING (UK) LTD

# Rail Quarter Lifter Operation & Maintenance Handbook



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## Terms & Definitions

For the purposes of this document, the terms and definitions given in ISO 6165 and the following apply.

**Operator's Handbook**

document describing and illustrating the safe operation, maintenance and safety precautions related to a machine

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# Introduction

## *Introduction*

This handbook covers the following model manufactured by Invictas Engineering (UK) Ltd: -  
Rail Quarter Lifter.

The above machine is designed to for transfers carcasses between two different heights, this is done via a pneumatic cylinder that connects to a main air compressor system.

Completely built in stainless steel, it is a strong, practical machine. It is operated by a control valve to raise and lower the quartering system. To prevent metal on metal ware the body runs on nylon rollers.

Modifications or alterations to the machine are strictly forbidden without the prior written consent of Invictas Engineering (UK) Ltd.

If the machine is used in any way contrary to its intended use, or if the machine is modified or altered in any way without the prior written consent of Invictas Engineering (UK) Ltd, or if the machine is incorrectly operated or maintained, Invictas Engineering (UK) Ltd will not accept any liability whatsoever for any damage or injury (whether direct or consequential).

The methods of Operation & Maintenance specified in this handbook should be strictly adhered to. For your parts requirements it is essential that only Invictas Engineering (UK) Ltd genuine parts are fitted. Any damage resulting from the fitment of non-genuine parts will invalidate the machine warranty.

The content of this handbook whilst correct at the time of publication may be subject to alteration by the company at any time without notice.

Invictas Engineering (UK) Ltd operates a policy of continuous improvement and reserve the right to change specification and equipment without notice. Therefore, some illustrations and accompanying text may differ slightly from your machine.

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# Introduction to the Handbook

The contents of the Operators Handbook are intended as a guide to the operation and servicing of the Rail Quarter Lifter

**This handbook is not a training Manual.** It is designed as a guide to the machine's controls and working capacities and general maintenance only. It must not be removed from the site and should be kept clean and in good condition.





Additional copies of the handbook can be obtained from Invictas Engineering (UK) Ltd.

**Only trained operators should use this machine.** Invictas Engineering (UK) Ltd strongly recommend that anyone who is responsible for the operation and servicing of this machine be fully trained & competent operator.

If you have any doubts about any aspects of the machine's capability or servicing procedures, you must consult Invictas Engineering (UK) Ltd.

Throughout this handbook and on the machine, there are safety notes. Each note starts with a single word.

The meaning of these single words is explained below.

	<p><b><u>Hazard</u></b></p> <p>This safety alert system identifies important safety messages in this Handbook. When you see this symbol, be alert, your safety is involved, carefully read the message that follows, and inform other operators.</p> <p>In this publication and on the machine, there are safety notices; each notice starts with a signal word meaning are provided below.</p>
	<p><b><u>Pinch Point</u></b></p> <p>Denotes an extreme hazard exists. If proper precautions are not taken, it is highly probable that the operator (or others) could be killed or seriously injured.</p>
	<p><b><u>High Voltage Electricity</u></b></p> <p>Denotes a hazard exists. If proper precautions are not taken, the operator (or others) could be killed or seriously injured.</p>
	<p><b><u>Caution Note Handbook</u></b></p> <p>Denotes a reminder of safety practices could result in injury to the operator (or others) and possible damage to the machine.</p>

In general, these notes are used to indicate that the procedures being described in the Handbook must be followed to avoid serious injury or death to yourself or others. The notes are also used to protect the machine from unsafe servicing practices.

These notes do not replace safety codes, insurance requirements & local laws. Make sure the machine has the correct equipment to comply with local regulations.

Pay particular attention to the safety notes given throughout the handbook.

It is the responsibility of the Operator to fully read all of the handbook & understand it before attempting to operate the machine.

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## Component Locations

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## General Safety



### **Warning**

To operate the machine safely you must know the machine and have the skills to use it. You must abide by all relevant laws, health and safety regulations that apply to the country you are operating in.

The operator Handbook instructs you on the machine, its controls and its safe operation.



### **Warning**

You and others can be killed or seriously injured if you operate or maintain the machine without first studying the operator Handbook. You must understand and follow the instructions in the operator Handbook. If you do not understand anything, ask your employer or dealer to explain it.



### **Warning**

#### **Care and alertness:**

All the time you

- Are working with or on the machine, take care and stay alert.
- Always be careful.
- Always be alert for hazards.



### **Warning**

#### **Clothing:**

- You can be injured if you do not wear the proper clothing. Loose clothing can get caught in the machinery.
- Wear protective clothing to suit the job. Examples of protective clothing are: a hard hat, safety shoes, safety glasses, a well-fitting overall, ear-protectors and industrial gloves.
- Keep cuffs fastened.
- Do not wear a necktie or scarf.
- Keep long hair restrained.
- Remove rings, watches and personal jewellery.



### **Warning**

#### **Alcohol and drugs:**

- It is extremely dangerous to operate machinery when under the influence of alcohol or drugs.
- Do not consume alcoholic drinks or take drugs before or while operating the machine.
- Be aware of medicines which can cause drowsiness.



### **Warning**

#### **Feeling unwell:**

- Do not attempt to operate the machine if you are feeling unwell.
- By doing so you could be a danger to yourself and those you work with.



### **Warning**

#### **Mobile Phones:**

- Switch off your mobile phone before entering an area with a potentially explosive atmosphere; Sparks in such an area could cause an explosion or fire resulting in death or serious injury.
- Switch off and do not use your mobile phone when refuelling the machine.



### **Warning**

#### **Machine Modifications:**

- This machine is manufactured in compliance with legislative and other requirements. It should not be altered in any way which could affect or invalidate any of these requirements.



### **Caution**

#### **Machine Operator:**

This machine must be operated only by correctly trained and authorised personnel. Certain local operating conditions may require the machine operator to obtain an operator's licence or a certificate.

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## Operating Safety



### **Warning**

#### **Machine Condition:**

- A defective machine can injure you or others. Do not operate a machine which is defective or has missing parts. Make sure the maintenance procedures in this Handbook are completed before using the machine



### **Warning**

#### **Noise:**

- Noise generated by the machinery on and around the platform(s) area can cause permanent hearing damage over periods of time; hence we strongly recommend all users to wear ear protection at all times.



### **Warning**

#### **Communication:**

- Bad communications can cause accidents. Keep people around you informed of what you will be doing. If you will be working with other people, make sure any hand signals that may be used are understood by everyone.



### **Warning**

#### **Moving Components:**

- The machine has rotating parts. Switch OFF the machine before carrying working in the compartment.
- Do not use the machine with the engine cover open.



### **Warning**

#### **Machine Safety:**

- Stop work at once if a fault develops. Abnormal sounds and smells can be signs of trouble. Inspect and repair before resuming work.



### **Warning**

#### **Fire**

Machine fires must not be put out using water. Always use foam, dry chemical or carbon dioxide extinguishers.

## Maintenance Safety



### **Warning**

#### **Repairs:**

- If your machine does not function correctly in any way, get it repaired straight away. Neglect of necessary repairs could result in an accident or affect your health.
- Do not try to do repairs or any other type of maintenance work you do not understand.
- To avoid injury and/or damage get the work done by a competent engineer

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