

*Oz Blok*



Quality Lifting & Rigging Solutions

Manufactured and tested for and on behalf of:

**Hoisting Equipment Specialists Pty Ltd**

31 Mangrove Lane

Taren Point NSW 2229 Australia

Phone: 1300 792 464

[www.hesgroup.com.au](http://www.hesgroup.com.au)

[www.ozblok.com.au](http://www.ozblok.com.au)

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## Road Plate Lifter & Weld On Plate

Our Road Plate  
Lifters meet or  
exceed AS 4991

## Operating Instruction Manual



## FIVE YEAR LIMITED WARRANTY

OzBlok products are guaranteed to be free of defects in materials and workmanship. If this Road Plate Lifter fails during the first 5 years of operation due to defective materials or workmanship it will be repaired or replaced at our discretion. Normal wear and tear on moving parts is excluded from this guarantee. This guarantee does not apply to any product showing signs of misuse, overloading, alteration or improper maintenance.

## WARRANTY POLICY

Any product for which there is a warranty claim, must be returned prepaid to an authorised OzBlok warranty depot along with proof of purchase.

For further information on OzBlok products, please contact your local distributor.



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## SAFETY INFORMATION

It is the responsibility of the owner/operator to install, inspect, test, maintain and operate OzBlok Road Plate Lifter in accordance with Australian Standard AS4991.

These general instructions deal with normal installation, operation and maintenance situations encountered with the product description herein.

This product should not be installed, operated or maintained by any person who has not read all the contents of these instructions. Failure to read and comply with these instructions or any warnings or limitations noted herein can result in serious bodily injury or death, and/or property damage.

Only trained and qualified personnel shall operate and maintain this equipment.

Equipment described herein is not designed for, and should not be used for lifting, supporting or transporting people.

Modifications to upgrade, re-rate or otherwise alter this product can only be authorised by the manufacturer.



OzBlok

The OzBlok heavy duty Road Plate Lifter is the perfect solution for the effortless and safe handling of heavy steel road plates. The dovetail design ensures optimal user safety, job efficiency and equipment reliability.

Simple yet effective in design, each OzBlok Road Plate Lifter system comprises of a receiver plate and a lifting tool. Each steel trench plate has the receiver flush welded at the centre of the plate, greatly reducing potential trip hazards and allowing for the plates to be stacked on top of one another for convenient storage.

To lift a plate, the lifting tool is inserted into the receiver at the centre of the plate and locked into position before a hook is attached to the middle of the lifting tool. With no additional shackle required, use of the Road Plate Lifter is simple, quick and most importantly safe. With the lifter connecting directly with the plate, maintenance of threads is eliminated, and no additional routine is maintenance in required.

Due to the design of the OzBlok Road Plate Lifter, the potential for serious injury to the user is eliminated as there is no longer any need to reach under the road plate, nor use tools such as crow bars to lift the plate. The lifting tool and receiver plate are both heat-treated to satisfy all applicable Australian Standards and have a working load limit of 5 tonnes with a minimum 5:1 safety factor.



## WORKING REQUIREMENTS

The OzBlok Road Plate Lifter is not suitable for side pulling or pushing and should only be used straight up and down in a vertical line.

The bottom 'dove tail' portion of the lifter will become stressed if the tools are pulled or pushed to the side or along the ground when attached to a steel plate. This could result in breakage or cracking, and/or pinching of the centre plate.

The Road Plate Lifter's longevity will be limited if it is misused, with the working load limit of the tool compromised and unknown.

## LARGE PLATES

For stability and to reduce stress, it is advised to use two Road Plate Lifters with a spreader bar when working with extra long plates. The longest section of the plate should be divided into thirds, with a weld in plate inserted on each third division. In some circumstances, for additional rigidity, road plates can be fitted next to one another.

## WELD IN PLATE

The female connector on the weld in plate can be effortlessly welded onto road plates that are being manoeuvred. When installed correctly, the weld in plate reduces trip hazards by sitting flush to the road plate and also allows for easy storage.

The weld in plate is designed for quick and easy installation, taking approximately 20 minutes for a 25mm thick Grade A36, A50 or A992 steel road plate.

We recommend load testing of the plates once welding is complete. Please contact Hoisting Equipment Specialists on 1300 792 464 to arrange on-site testing.

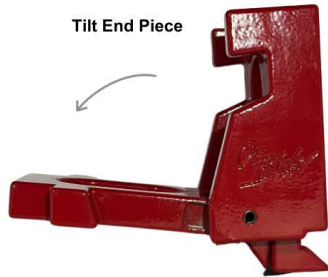
## MAINTENANCE AND INSPECTION

In accordance with Australian Standards, the Road Plate Lifter should be inspected annually (and tested if required). No additional ongoing maintenance is required.

Road Plate Lifter



Tilt End Piece



Tilt Whole Road Plate Lifter



Road Plate with Insert

Put the Shackle On



## WELDING INSTRUCTIONS

<b>Project:</b> Company Standard Procedure		<b>PQR No.:</b> 1851		<b>WPS No.:</b> 1851	
<b>Welding Code:</b>	AS/NZS 1554.1-2014, 1554.5-2014	<b>Material Grade:</b>	AS3678 Gr. 350 to AS1442 M1030		
<b>Welding Process:</b>	GMAW	<b>Thickness:</b>	16 to 20mm		
<b>Position:</b>	1G (PA)	<b>Material Type No. / Group No.</b>	4 / 5 to Unassigned		
<b>Joint Type:</b>	Single Bevel Partial Pen. (13.5mm)	<b>Material Heat No:</b>	n/a		
<b>Joint Preparation</b>			<b>Pass Sequence</b>		
<b>Joint Tolerances</b>		<b>Diameter – Thickness Range</b>		<b>Thermal treatment</b>	
<b>Bevel Angle:</b>	40° Inc.	<b>Pipe Diameter:</b>	n/a	<b>Preheat °C:</b>	≥10°C See note
<b>Root Gap:</b>	1.5-3mm	<b>Thickness Range:</b>	8-32mm	<b>Inter-pass °C:</b>	≤300°C
<b>Root Face:</b>	5mm	<b>Combined Thickness:</b>	Max 64mm	<b>P.W.H.T.:</b>	n/a

<b>Consumable Details and Welding Parameters</b>											
<b>Consumable Classification:</b>		B G 49A 3U C1/M21/M24 S6		<b>Technique:</b>		Forehand / Push					
<b>Trade Name:</b>		n/a		<b>Electrode Stickout:</b>		12-18mm					
<b>Batch No:</b>		n/a		<b>Metal Transfer:</b>		Globular					
<b>Tungsten Type/Size:</b>		n/a		<b>Purge Gas / Flow Rate:</b>		n/a					
<b>Shielding Gas:</b>		Argon / 16% CO2 / 3% O2		<b>Interrun Cleaning:</b>		Grind / Brush					
<b>Flow Rate:</b>		17-21Lpm		<b>Flux Class / Batch:</b>		n/a					
Run No.	Side	Pos.	Electrode/Wire		Gas/Flux Type	Amps	Volts	Polarity	Travel Speed mm/min	Interpass Temp °C	Heat Input Kj/mm
1	1	1G	0.9mm	G 49A S6	Argon / CO2 / O2	167-203	25-27	DC+	244-330	Max 300°C	0.74-1.39
2	1	1G	0.9mm	G 49A S6		176-214	27-29	DC+	296-399		0.69-1.30
3	1	1G	0.9mm	G 49A S6		179-217	27-29	DC+	234-316		0.89-1.67