

VERTICAL PLATE CLAMP

1.0 - 2.0 TONNE SERIES





Disclaimer:

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1. SAFETY GUIDELINES

Important: Read and understand all safety instructions before use. Keep instructions safe for future reference. Ensure that this equipment is in sound, clean condition and good working order before use. The operator must have a clear and unobstructed view of the entire travel area before operating the lever block - it is preferable to operate with one or more persons on hand.

General Safety:

- Always inspect equipment for damage before use
- Ensure any damaged parts are replaced before use - use only Tundra Industrial recommended parts - contact your dealer for advice
- Do not use this equipment if damage or weakness is detected during inspection
- Do not modify this equipment for any use other than that which it has been designed and tested for
- Never exceed the rated capacity
- Keep the equipment clean and well maintained for optimal, safe performance
- Ensure that the working environment is well lit and kept clean and free from clutter, keep children and animals away
- Ensure that the floor is level and strong enough (preferably concrete) to take the weight of the lift and the bike
- This equipment should only be used by fully-trained and competent individuals (never under the influence of drugs or alcohol)
- Raise and lower the load in a smooth, controlled manner
- Use a qualified person to lubricate and maintain this equipment
- Unauthorised parts may be dangerous and will invalidate the warranty

Equipment Safety:

- Never use this equipment for lifting, supporting or transporting people or animals
- Do not use the clamp in areas containing flammable vapors, liquids, gasses or combustible dust or fibres
- Do not use the clamp in highly corrosive, abrasive, wet environments or in applications involving exposure to temperatures below -40°C or above 80°C
- Keep children and animals out of the working environment during operation
- Ensure that the nameplate / specification plate is kept clean, clear and visible at all times

WARNING: Do not use this equipment if any damage or wear is detected - remove from service immediately and seek advice for repair

- Never lift under 20% of the rated capacity
- Used on all hot rolled structural steel plates and sections up to a surface hardness of 300 Brinell/32 Rockwell C



WARNING:

No responsibility is accepted for incorrect use of this equipment. Incorrect use can result in damage to the equipment and danger to the user. Warranty will be void in the event of incorrect use. The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

2. SPECIFICATIONS

Model		TUNVERLIF01	TUNVERLIF02
CAPACITY (Tonne)		1.0	2.0
Test load (KN)		14.7	29.4
Jaw Opening (mm)		0.20	0.25
Dimensions (mm): <i>(Refer to Fig.1 below:)</i>	A	22	27
	B	63	76
	C	167	202
	D	295	370
	E	48	60
	F	138	164
	G	50	52
	H	51	56
	K	12	16
Net weight (kg)		5	8

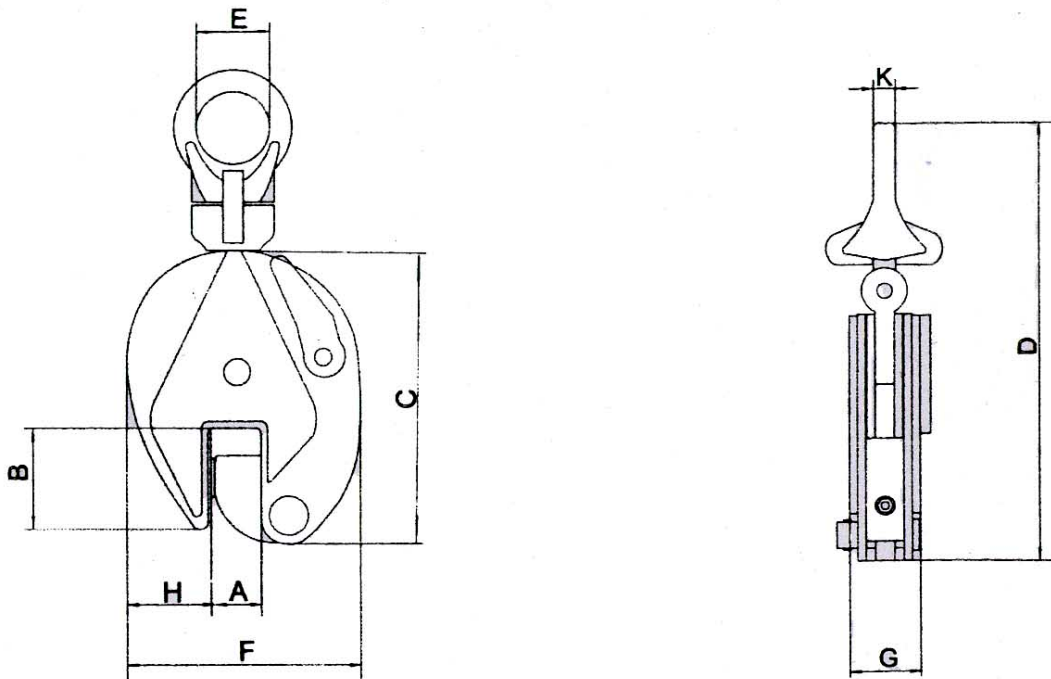


Fig.1: Specifications & Dimensions

3. OPERATION GUIDE

- Estimate the plate that is to be lifted or moved and make sure it does not exceed the rated load of the clamp.
- This clamp with pivoting shackle can be used for lifting and transporting plates at various angles, but the load capacity is reduced, as seen on the diagram (Fig.1 below) showing the load/force capacities.

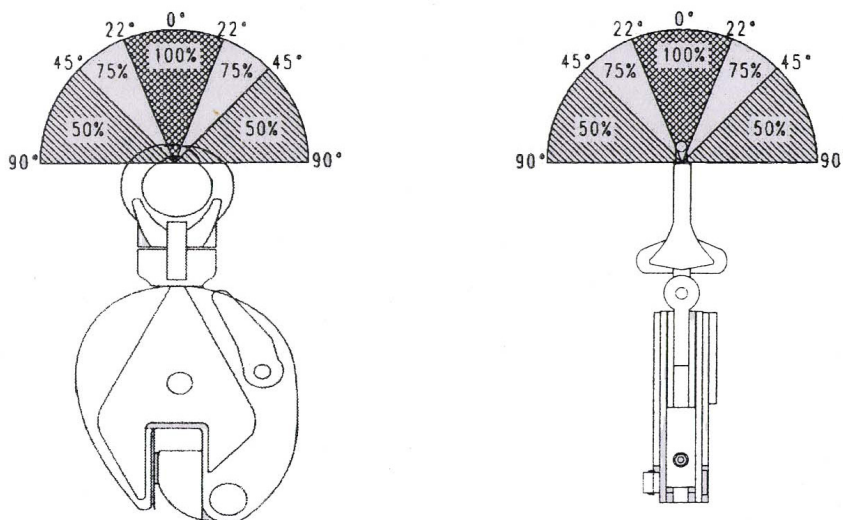
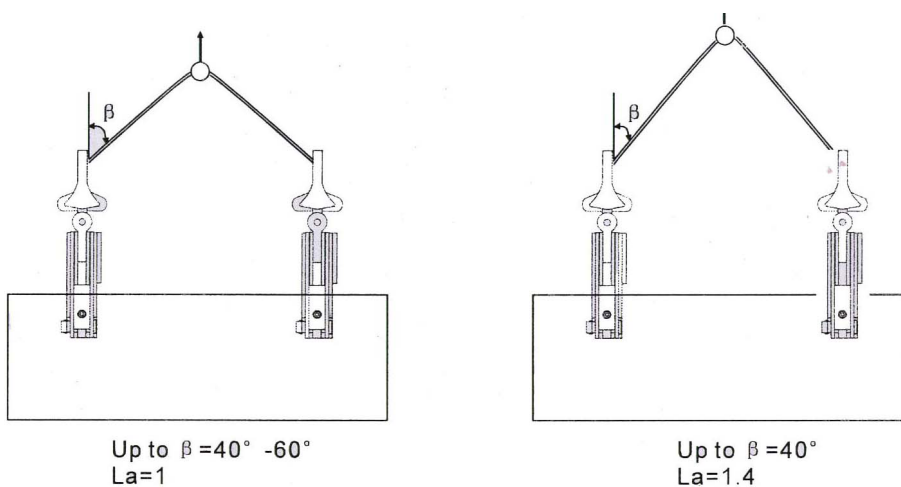


Fig.2: Load / Force Capabilities

- The pivoting shackle has the added advantage of providing enough clamping force to hold a plate safely, even when transporting large-sized plates with the 2-legged lifting system. Slipping or damage to the clamp is prevented.
- When using two clamps to transport large-sized plates, pay attention to the reduced capacities of the clamps.



F = Working Load Limit of the clamp
La = Factor

Fig.3: Load Capacities using 2 Clamps

Calculation example: $F=1000\text{kg}$, $La=0.8$ ($\beta=50^\circ$)
 Rated Load= $F \cdot La=1000\text{kg} \times 50\% \cdot 1000\text{kg} \times 0.8=400\text{kg}$ capacity(WLL)
 in this lifting method

3.1 ATTACHING THE PLATE

- Turn the function lever clockwise to disengage the jaws.
- Then put the plate to the end of the mouth of clamp.
- Move the function lever counter- clockwise to grip and lock the plate.

3.2 LIFTING SAFETY

- Do not lift or transport loads while other personnel are in the work/lift area.
- Do not stand or place hands or feet under the raised plate.
- Raised loads are not to be left unattended for a longer period of time.
- The operator may only start to move the load when he is sure the load will not overturn and that all personnel have left the work area.

3.3 TO LOOSEN LOAD

- Move the function lever clockwise to disengage the jaws.

4. MAINTENANCE

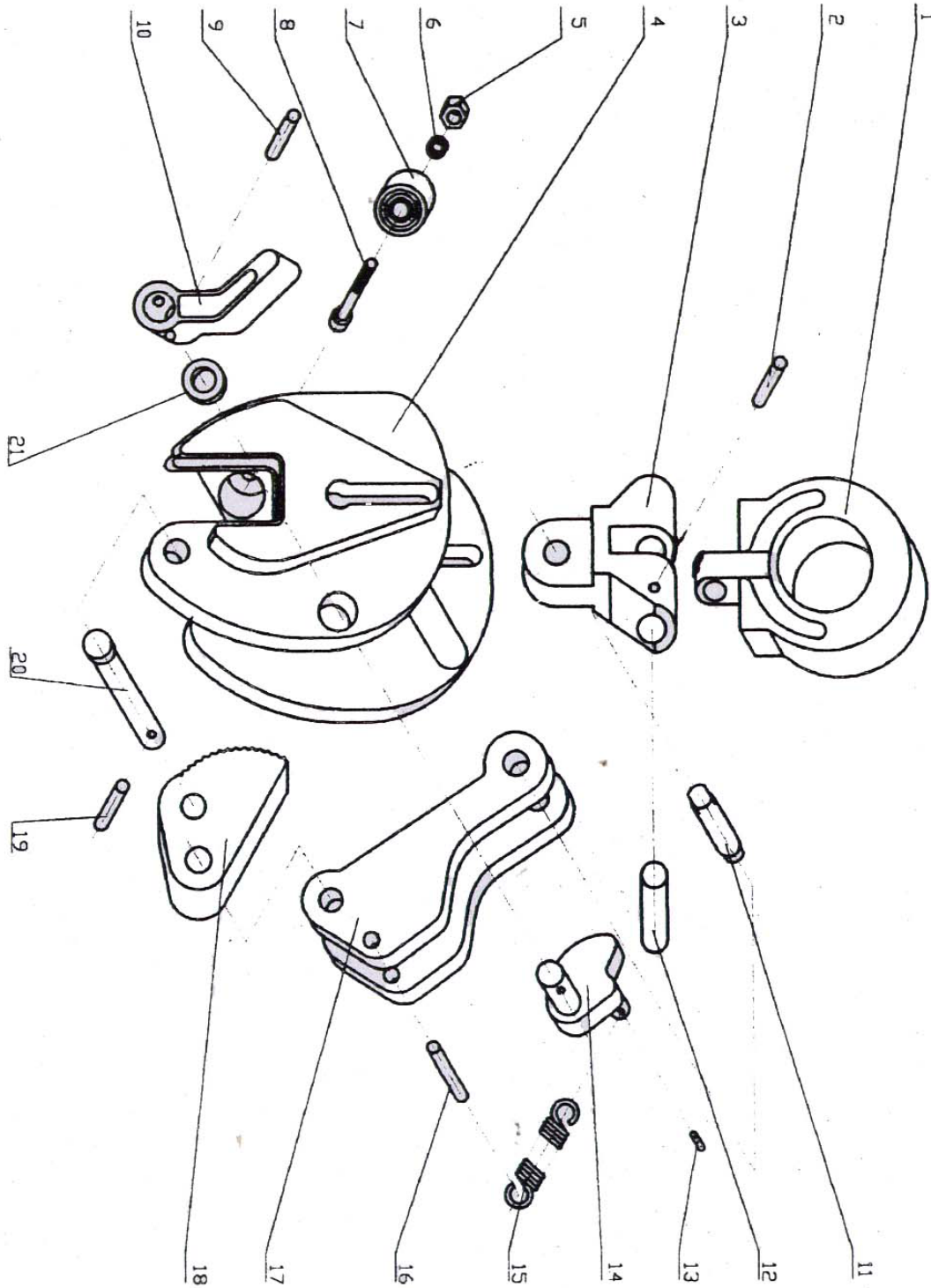
To maintain continuous and satisfactory operation, a regular inspection procedure must be initiated so that worn or damaged parts can be replaced before they become unsafe.

If faults are detected the clamp must be put out of service immediately. The intervals of inspection must be determined by the individual application and are based upon the type of service to which the clamp is subjected.

The components of the clamp are to be inspected for damage, wear, corrosion or other irregularities. Repairs may only be carried out by trained professionals using Tundra Industrial approved parts. Contact your nearest dealer for advice.

5. PARTS LIST & DIAGRAM

Item	Description	Quantity	Item	Description	Quantity
1	Pivoting Shackle	1	11	Connecting Block Pin	1
2	Rollpin	1	12	Pivoting Shackle Pin	1
3	Connecting Block	1	13	Rollpin	1
4	Body	1	14	Function Block	1
5	Locknut	1	15	Pulling Spring	1
6	Lockwasher	1	16	Rollpin	1
7	Round Jaw	1	17	Connecting Plate	1
8	Screw	1	18	Clamping Jaw	1
9	Roll pin	1	19	Rollpin	1
10	Function Lever	1	20	Jaw Pin	1
			21	Shim Washer	1





USER MANUAL

TUNVERLIF01 • TUNVERLIF02

LIMITED WARRANTY STATEMENT

Tundra Industrial warrants its customers that its products will be free of defects in workmanship or material.

Tundra Industrial shall, upon suitable notification, correct any defects, by repair or replacement, of any parts or components of this product that are determined by Tundra Industrial to be faulty or defective.

This warranty is void if the equipment has been subjected to improper installation, storage, alteration, abnormal operations, improper care, unauthorised service or repair.

Warranty Period

Tundra Industrial will assume both the parts and labour expense of correcting defects during the stated warranty periods below. All warranty periods start from the date of purchase from an authorised Tundra Industrial dealer. If proof of purchase is not available from the end user, then the date of purchase will be deemed to be 3 months after the initial sale to the distributor.

1 Year

• TUNVERLIF01 • TUNVERLIF02

90 Days

• All replacement parts purchased outside of the warranty period

Important: All parts used in the repair or replacement of warranty covered equipment will be subject to a minimum of 90 days cover or the remaining duration of the warranty period from the original date of purchase.

Warranty Registration / Activation

You can register and activate your warranty by visiting the Jefferson Tools website using the following address: www.jeffersonstools.com/warranty and completing the online form. Online warranty registration is recommended as it eliminates the need to provide proof of purchase should a warranty claim be necessary.

Warranty Repair

Should Tundra Industrial confirm the existence of any defect covered by this warranty the defect will be corrected by repair or replacement at an authorized Tundra Industrial dealer or repair centre.

Packaging & Freight Costs

The customer is responsible for the packaging of the equipment and making it ready for collection. Tundra Industrial will arrange collection and transportation of any equipment returned under warranty. Upon inspection of the equipment, if no defect can be found or the equipment is not covered under the terms of the Tundra Industrial warranty, the customer will be liable for any labour and return transportation costs incurred. These costs will be agreed with the customer before the equipment is returned.

Warranty Limitations

Tundra Industrial will not accept responsibility or liability for repairs made by unauthorised technicians or engineers. Tundra Industrial's liability under this warranty will not exceed the cost of correcting the defect of the Tundra Industrial products. Tundra Industrial will not be liable for incidental or consequential damages (such as loss of business or hire of substitute equipment etc..) caused by the defect or the time involved to correct the defect. This written warranty is the only express warranty provided by Tundra Industrial with respect to its products.

Any warranties of merchantability are limited to the duration of this limited warranty for the equipment involved. Tundra Industrial is not responsible for cable wear due to flexing and abrasion. The end user is responsible for routine inspection of cables for possible wear and to correct any issues prior to cable failure.

Claiming Warranty Coverage

The end user must contact Tundra Industrial (Tel: **+44 (0) 1244 646 048**) or their nearest authorised Tundra Industrial dealer where final determination of the warranty coverage can be ascertained.

Step 1 - Reporting the Defect

Online Method:

- Visit the website www.jeffersonstools.com/warranty and complete the Warranty Returns form. You can complete the form online and submit it to us directly or download the form to print out and return by post.

Telephone Method:

Contact your Tundra Industrial dealer or sales representative with the following information:

- Model number
- Serial number (usually located on the specification plate)
- Date of purchase

A Warranty Returns form will be sent to you for completion and return by post or fax, together with details of your nearest authorised Tundra Industrial repair centre. On receipt of this form Tundra Industrial will arrange to collect the equipment from you at the earliest convenience.

Step 2 - Returning the Equipment

It is the customer's responsibility to ensure that the equipment is appropriately and securely packaged for collection. Please ensure that you include a copy of your proof of purchase. Please note that Tundra Industrial cannot assume any responsibility for any damage incurred to equipment during transit. Any claims against a third party courier will be dealt with under the terms & conditions of their road haulage association directives.

Step 3 - Assessment and Repair

On receipt, the equipment will be assessed by an authorised Tundra Industrial engineer and it will be determined if the equipment is defective and in need of repair and any repairs needed are covered by the warranty policy. In order to qualify for warranty cover all equipment presented must have been used, serviced and maintained as instructed in the user manual.

Where repair is not covered by the warranty a quotation for repair, labour costs and return delivery will be sent to the customer (normally within 7 working days). **Note:** If the repair quotation is not accepted Tundra Industrial will invoice 1 hour labour time at £30 per hour plus return carriage costs (plus VAT).

In cases where no fault can be found with the equipment, or, if incorrect operation of the equipment is identified as the cause of the problem, a minimum of 1 hour labour at £30 per hour plus carriage costs will be required before the equipment will be despatched back to the customer.

Any equipment repaired or replaced under warranty will normally be ready for shipment back to the customer within 7 working days upon receipt of the equipment at an authorised Tundra Industrial Repair centre (subject to part availability). Where parts are not immediately available Tundra Industrial will contact you with a revised date for completion of the repair.

General Warranty Enquiries

For any further information relating to Tundra Industrial warranty cover please call **+44 (0) 1244 646 048**.

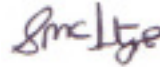
EC DECLARATION OF CONFORMITY

We, Tundra Industrial, as the authorised European Community representative of the manufacturer, declare that the following equipment conforms to the requirements of the following Directives:

EN 2006/42/EC
Machinery Directive

Equipment Category: Lifting Equipment
Product Name/Model: Vertical Plate Clamps [TUNVERLIF01 • TUNVERLIF02]

Signed by: Stephen McIntyre
Position in the company: Operations Director
Date: 20 April 2017
This technical document is held by: Jimmy Hemphill



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