

# 145 Centres Bar Clamp

Replaces DS6381-3

DS6381-4 September 2022 LN42053

## DESCRIPTION

Dynex offers a range of standard clamps designed to accommodate press pack semiconductors with tie rod centres from 75mm to 210mm and clamping force from 5kN to 138kN.

The set clamps use Disc Springs to DIN 2092/2093 to apply the clamping force over a wide temperature range. The clamps also incorporate pressure indicators to make installation simple. Isolation is provided by high quality ceramic insulators and PTFE sleeving.

Zinc plating with a Yellow Passivated finish is used for enhanced corrosion protection.

If a clamp you require is not available in our standard range, Dynex can provide a clamping solution to your individual needs. Speak to your local sales representative for details.

## ORDERING INFORMATION

Example Part Number:

**DC145/35/200/R**

**DC145** – Clamp Series

This is a Dynex clamp with tie rod centres of 145mm

**35** – Clamping Force

This is the required clamping force of the semiconductor device in kN

**200** – Dimension 'Y' (see figure 2)

This is the total distance of all the parts to be clamped, plus the bottom reaction bar if fitted

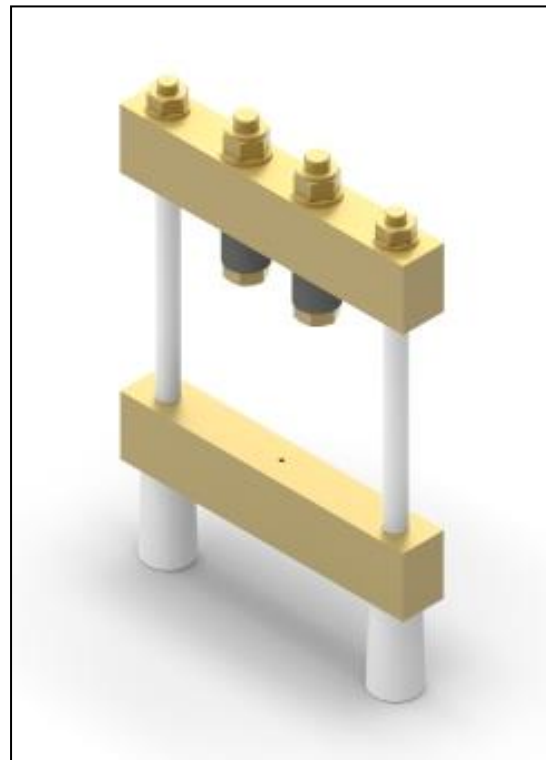
**R** – Bottom Reaction Bar fitted (optional)

If using a heatsink of suitable strength and stiffness the bottom reaction bar is not necessary, and the 'R' can be omitted from the part number

**Tie Rod Centres (mm)** **145**  
**Forces available (kN)** **20, 30, 35, 43, 55**

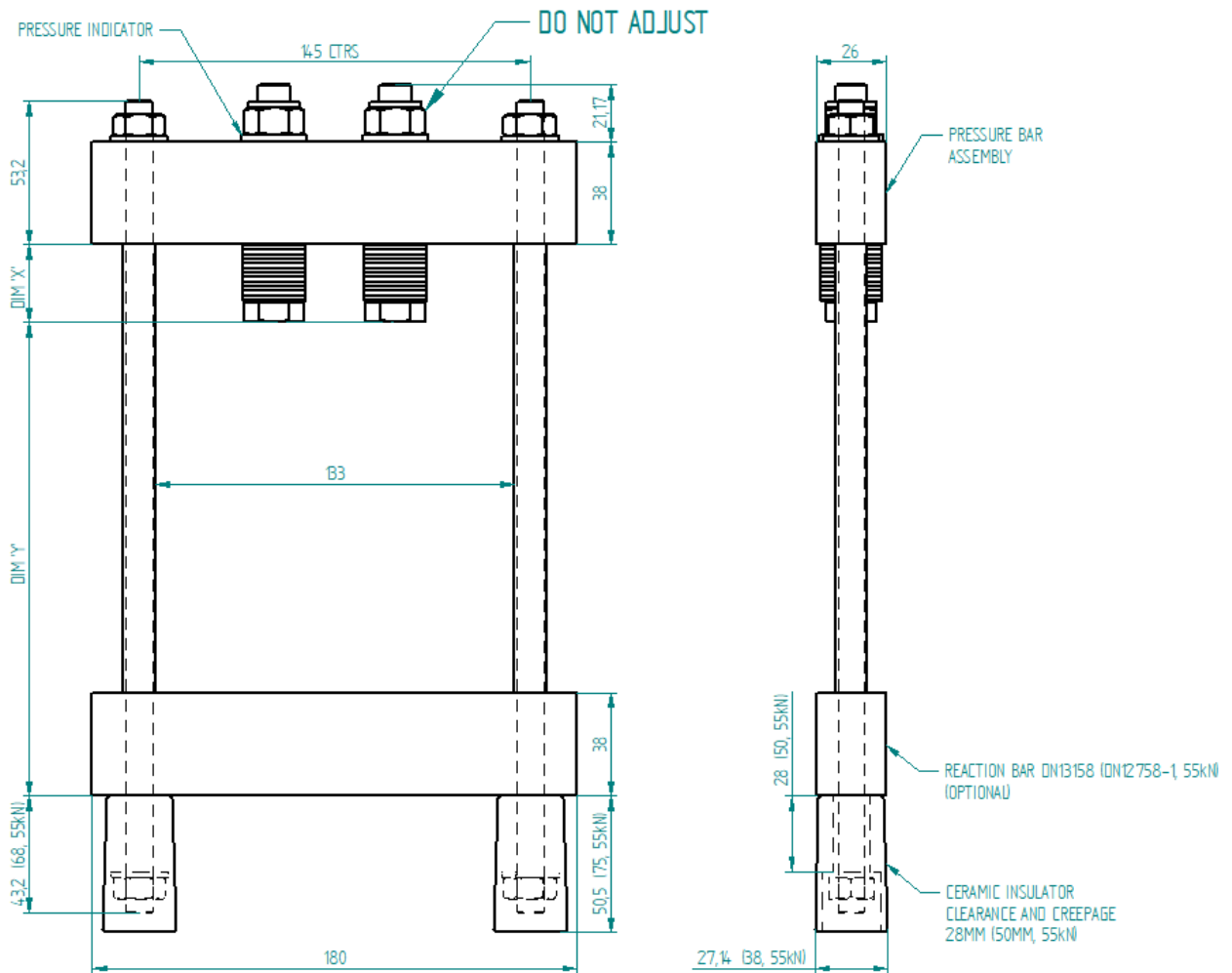
The DC145 has been designed to support the common semiconductor packages shown below.

Dynex Outline	Flange Diameter (mm)	Height (mm)
C	102	28
L	102	36
V	112	29
X	85	27
Y	120	36



**Figure 1: Clamp General Assembly**

All dimensions in mm, unless stated otherwise.  
**DO NOT SCALE.**



FORCE	DIM 'X'
20kN	18.67
30kN	22.01
35kN	25.45
43kN	28.38
55kN	44.25

**Figure 2: Clamp Outline**

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This publication is provided for information only and not for resale.

The products and information in this publication are intended for use by appropriately trained technical personnel.

Due to the diversity of product applications, the information contained herein is provided as a general guide only and does not constitute any guarantee of suitability for use in a specific application. The user must evaluate the suitability of the product and the completeness of the product data for the application. The user is responsible for product selection and ensuring all safety and any warning requirements are met. Should additional product information be needed please contact Customer Service.

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The products are not intended for use in applications where a failure or malfunction may cause loss of life, injury or damage to property. The user must ensure that appropriate safety precautions are taken to prevent or mitigate the consequences of a product failure or malfunction.

The products must not be touched when operating because there is a danger of electrocution or severe burning. Always use protective safety equipment such as appropriate shields for the product and wear safety glasses. Even when disconnected any electric charge remaining in the product must be discharged and allowed to cool before safe handling using protective gloves.

Extended exposure to conditions outside the product ratings may affect reliability leading to premature product failure. Use outside the product ratings is likely to cause permanent damage to the product. In extreme conditions, as with all semiconductors, this may include potentially hazardous rupture, a large current to flow or high voltage arcing, resulting in fire or explosion. Appropriate application design and safety precautions should always be followed to protect persons and property.

### Product Status & Product Ordering:

We annotate datasheets in the top right hand corner of the front page, to indicate product status if it is not yet fully approved for production. The annotations are as follows:

<b>Target Information:</b>	This is the most tentative form of information and represents a very preliminary specification. No actual design work on the product has been started.
<b>Provisional Information:</b>	Some initial development work has been performed. The datasheet represents a view of the end product based on very limited information. Certain details will change.
<b>Preliminary Information:</b>	The product design is complete and final characterisation for volume production is in progress. The datasheet represents the product as it is now understood but details may change.
<b>No Annotation:</b>	The product has been approved for production and unless otherwise notified by Dynex any product ordered will be supplied to the <b>current version of the data sheet prevailing at the time of our order acknowledgement.</b>

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### HEADQUARTERS OPERATIONS

DYNEX SEMICONDUCTOR LIMITED  
Doddington Road, Lincoln, Lincolnshire. LN6 3LF  
United Kingdom.  
Phone: +44 (0) 1522 500500  
Fax: +44 (0) 1522 500550  
Web: <http://www.dynexsemi.com>

### CUSTOMER SERVICE

Phone: +44 (0) 1522 502753 / 502901  
e-mail: [powersolutions@dynexsemi.com](mailto:powersolutions@dynexsemi.com)