

b	d	h <sub>1</sub>	h <sub>2</sub>	k <sub>1</sub>	k <sub>2</sub>	Nominal load in t (WLL)	max. permitted lashing force in daN (LC)
100	35	41,5	57	16	30	1,6	3200
137	50	59	80	23	41	3,2	6400
172	60	71,5	99	27	51	5	10000
228	80	95	130	38	70	10	20000

## Specification

- Steel, German Material No. 1.6541
  - Forged
  - High-tensile tempered
  - 100 % electro magnetic tensile tested to EN 1677
  - Phosphated
- RoHS

## Information

Lifting points GN 589 are distinguished for their very low dimensions. They provide high dynamic and static strength and can be load from any direction with approved safety (safety factor 4) for all loading directions.

The rated load carrying capacity listed in the above table is clearly marked on the lifting point. It applies to the most unfavourable load application of the load types listed opposite.

Lifting points GN 589 comply with Mechanical Engineering Directive 2006 / 42 / EG.

see also ...

- [Load Rings GN 587](#) → Page 1516
- [Shackles GN 584](#) → Page 1520
- [Shackles GN 585](#) → Page 1521

How to order

 GN 589-137

1 b



3.1  
3.2  
3.3  
3.4

Method of mounting										
Number	1	1	2	2	2	2	2	3 and 4	3 and 4	3 and 4
Angles of inclination	0°	90°	0°	90°	0 to 45°	45 to 60°	asymm.	0 to 45°	45 to 60°	asymm.
Factor	1	1	2	2	1,4	1	1	2,1	1,5	1
100	1,6 t	1,6 t	3,2 t	3,2 t	2,2 t	1,6 t	1,6 t	3,4 t	2,4 t	1,6 t
137	3,2 t	3,2 t	6,4 t	6,4 t	4,5 t	3,2 t	3,2 t	6,8 t	4,8 t	3,2 t
172	5,0 t	5,0 t	10,0 t	10,0 t	7,1 t	5,0 t	5,0 t	10,6 t	7,5 t	5,0 t
228	10,0 t	10,0 t	20,0 t	20,0 t	14,1 t	10,0 t	10,0 t	21,2 t	15,0 t	10,0 t

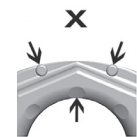
3.5  
3.6

### Safety instructions

The above details specify the maximum load in metric tonnes.



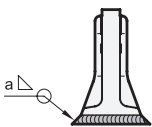
**Use permitted**  
No traces of wear



**Use not permitted**  
Criteria reached:  
Material worn down to the wear marks

Carefully check the wear markings for the abrasion of the lifting point.

3.7  
3.8



Weld seam

Lifting point	Size fillet seam	Length	Volume in cm <sup>3</sup>
<b>b = 100 ( 1,6 t)</b>	<b>a = 4</b>	251	4,016
137 ( 3,2 t)	6	344	12,38
172 ( 5,0 t)	7	431	21,10
228 (10,0 t)	8	576	36,86

3.9

Welding must be made by an approved welder in accordance with EN 287-1.

The specified loading values are valid for an operating temperature of between -40 °C and +200 °C. Load capacities under higher temperatures provided on request.

The operating instruction contains further guidelines and is included with every lifting point (see also at [www.ganternorm.com/en/service](http://www.ganternorm.com/en/service)).

