



d ₁	d ₂	h ₁	h ₂	h ₃	h ₄	k ₁	k ₂	k ₃	k ₄	k ₅	l ₁	l ₂	r	A/F ₁	A/F ₂	Tightening torque in Nm	Nominal load in t (WLL)
M 8	24	87	75	40	35	12	54	34	75	45	11	30	32	13	5	30	0,63
M 10	24	87	75	39	36	12	54	34	75	45	15	30	32	17	6	60	0,9
M 12	26	87	75	38	37	12	54	34	75	45	18	32	32	19	8	150	1,35
M 16	30	99	85	39	46	13,5	56	36	86	47	22	33	38	24	10	150	2
M 20	45	127	110	55	55	16,5	82	54	113	64	32	50	48	30	12	400	3,5
M 24	45	143	125	67	58	18	82	54	130	78	37	50	48	36	14	760	4,5
M 30	60	170	147	67	80	22,5	103	65	151	80	49	60	67	46	17	1000	6,7

Specification

- Load rings
Steel
German Material No. 1.6541 (acc. EN 1677)
- forged
- high-tensile tempered
- 100 % electro magnetic tensile tested
- plastic coated, pink
- Fixing holder
- forged
- high-tensile tempered
- 100 % electro magnetic tensile tested
- plastic coated, pink
- Bolt
Steel,
Tensile strength class 10.9
Finish: Delta Tone
- Bushing
Steel
galvanic zinc plated
- Strength values of screws → Page 1481
- RoHS compliant

Information

The load rings GN 586.1 can be folded and rotated into all approved directions, carrying the full load in any tension direction.

They offer a high load carrying capacity and they are tested to meet safety standards (safety factor 4).

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

Load rings GN 586.1 comply with Mechanical Engineering Directive 2006 / 42 / EG and are BG tested.

The integrated RFID transponder clearly marks and identifies the sling and lifting gear, e.g. during the prescribed regular inspection.

This standard replaces the previous load rings GN 586.

see also ...

- Shackles GN 584 → Page 1076
- Shackles GN 585 → Page 1077

How to order

GN 586.1-M12

1 d₁



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
M 8	0,63 t	0,63 t	1,26 t	1,26 t	0,88 t	0,63 t	0,63 t	1,26 t	0,94 t	0,63 t
M 10	0,90 t	0,90 t	1,80 t	1,80 t	1,26 t	0,90 t	0,90 t	1,90 t	1,35 t	0,90 t
M 12	1,35 t	1,35 t	2,70 t	2,70 t	1,90 t	1,35 t	1,35 t	2,80 t	2,00 t	1,35 t
M 16	2,00 t	2,00 t	4,00 t	4,00 t	2,80 t	2,00 t	2,00 t	4,20 t	3,00 t	2,00 t
M 20	3,50 t	3,50 t	7,00 t	7,00 t	4,90 t	3,50 t	3,50 t	7,35 t	5,25 t	3,50 t
M 24	4,50 t	4,50 t	9,00 t	9,00 t	6,30 t	4,50 t	4,50 t	9,50 t	6,75 t	4,50 t
M 30	6,70 t	6,70 t	13,40 t	13,40 t	9,40 t	6,70 t	6,70 t	14,00 t	10,00 t	6,70 t

Safety instructions

The above details specify the maximum load in metric tonnes, with the rotating load ring GN 586.1 fixed in place and set in load direction.

The contact surface of the rotating load ring GN 586.1 must be flat and at a right angle to the tapped bore.

When fixed to the member, the attachment bolt must be allowed to rotate freely by 360°. Only the hexagonal bolt supplied with the load ring may be used.

The load ring must move freely and must not be supported by edges.

Before applying the load, both the load ring and the attachment bolt must be turned in load direction, observing the permissible loading depending on the direction of the load ring. Rotating load rings are not suitable for frequent rotations under load.

The specified loading values are valid for a minimum bolt embedment depth of 1,5 × nominal thread diameter in steel with a minimum tensile strength of 37 kp/mm² at an operating temperature of between -40 °C and +100 °C. Load capacities under different conditions provided on request.

Operating instructions with more details and specifications are included with every delivery (see also www.ganter-griff.com).

