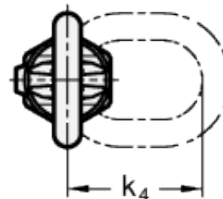
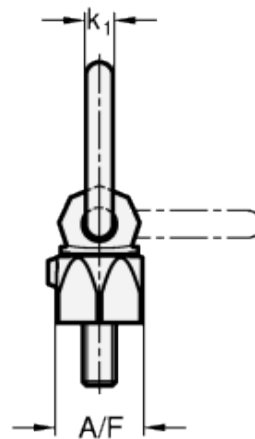
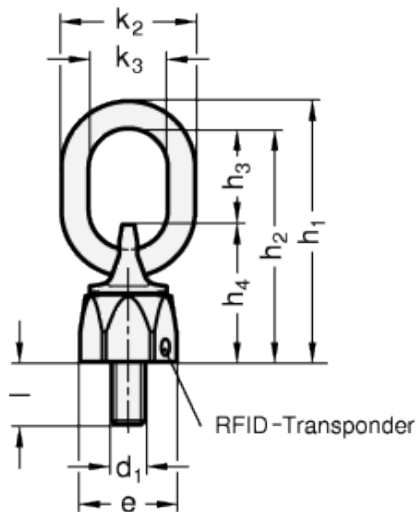


# GN 5860

Load rings



## technical informations

### Chain ring

High-tensile forged tempered steel, German Material No. 1.6540 with pink plastic surface coating, 100% electro-magnetic tensile tested to EN 1677.

### Eye ring

High-tensile forged tempered steel, German Material No. 1.6541 with pink plastic surface coating, 100% electro-magnetic

tensile tested.

### Bearing case

High-tensile forged tempered steel, German Material No. 1.6540 zinc-plated, blue passivated, 100% electro-magnetic tensile tested.

### Screw

Steel, Tensile strength class 10.9 (1000 N/mm<sup>2</sup>), finish Delta Tone.

### Features

Load rings GN 5860 rotate running in ball bearings. The freely rotating ring allows the bolts to hold loads in any tensile direction.

The rated load-bearing capacity is shown clearly on the load ring. It is valid for the most unfavourable case in terms of the types of load listed opposite. Load rings GN 5860 comply with Machine Engineering Directive 2009 / 42 / EG and are BG tested.

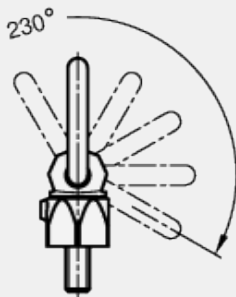
The integrated RFID transponder clearly marks and identifies the sling and lifting gear, e.g. during the prescribed regular inspection.

### Safety instructions

The above load capacity table shows the maximum loads in metric tonnes as factor of the load ring type and at an operating temperature range of -40 °C to +100 °C, with a safety coefficient of 4 taken into account for all values.

The load ring GN 5860 may be used only if it is bolted with the minimum screw-in depth which depends on the material and if the bolt contact surface is plane and fixed at a right angle to the tap hole.

If permanently mounted in place, the swivel eye bolt must rotate freely by 360° and must not rest on edges or other fixture, e.g. crane hooks. The load rings are not suitable for permanent rotary movement under load exposure.



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	0,60 t	0,30 t	1,20 t	0,60 t	0,42 t	0,30 t	0,30 t	0,63 t	0,45 t	0,30 t
M 10	0,90 t	0,45 t	1,80 t	0,90 t	0,63 t	0,45 t	0,45 t	0,94 t	0,67 t	0,45 t
M 12	1,20 t	0,60 t	2,40 t	1,20 t	0,84 t	0,60 t	0,60 t	1,26 t	0,90 t	0,60 t
M 16	2,60 t	1,30 t	5,20 t	2,60 t	1,81 t	1,30 t	1,30 t	2,73 t	1,95 t	1,30 t
M 20	4,00 t	2,00 t	8,00 t	4,00 t	2,80 t	2,00 t	2,00 t	4,20 t	3,00 t	2,00 t
M 24	7,00 t	3,50 t	14,00 t	7,00 t	4,90 t	3,50 t	3,50 t	7,35 t	5,25 t	3,50 t
M 30	10,00 t	5,00 t	20,00 t	10,00 t	7,00 t	5,00 t	5,00 t	10,50 t	7,50 t	5,00 t

Standard Elements	Main dimensions													Tightening torque in Nm	Nominal load in t	Weight
Description	d <sub>1</sub>	l	e	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	k <sub>1</sub>	k <sub>2</sub>	k <sub>3</sub>	k <sub>4</sub>	A/F	g			
GN 5860-M8-13	M8	13	30	84	76	31	45	8	45	29	44	28	10	0.30	175	
GN 5860-M10-17	M10	17	36	86	78	31	47	8	45	29	44	30	10	0.45	205	
GN 5860-M12-21	M12	21	42	117	107	49	58	10	58	35	65	36	10	0.60	400	
GN 5860-M16-25	M16	25	48	126	113	46	67	13	67	38	65	41	30	1.30	664	
GN 5860-M20-33	M20	33	62	150	137	54	83	13	83	35	77	55	70	2.00	1294	
GN 5860-M24-40	M24	40	81	191	173	66	107	18	107	40	94	70	150	3.50	2647	
GN 5860-M30-50	M30	50	99	243	221	90	131	22	131	50	126	85	225	5.00	4950	



STANDARD MACHINE ELEMENTS WORLDWIDE