

# EYEBOLTS: “JAGUAR” MODELS PHCG/PHCM/PHCH



## IMPORTANT

If the equipment is not properly installed, operated, and maintained, it may be damaged. Before using it, all persons involved in its installation, operation, and maintenance must read this manual carefully. For your safety, follow all instructions and recommendations contained in this manual carefully. This manual should also be saved for future use.



**INDUSTRIAS JAGUAR, S.A.**  
Carretera N-1 Km. 443 - Apartado 23  
20150 Villabona – Guipúzcoa - Spain  
Tel.: (+34) 943 69 12 83 - Fax: (+34) 943 69 18 50  
E-mail: [jaguar@industriasjaguar.com](mailto:jaguar@industriasjaguar.com)  
<http://www.industriasjaguar.com>



Every JAGUAR eyebolt is manufactured and tested in accordance with Machinery Directive 2006/42/EC and complies with the specific EN-1677/1 and EN-12100 standard.

## PRECAUTIONS

To safely use our eyebolts:

The following points show what should and should not be done to safely use our eyebolts, taking into account the following specific rules and always applying common sense.

By dedicating just a few minutes to reading these rules, the operator can avoid dangerous situations and take precautions for his/her own safety and that of others.

## CONDITIONS OF USE

Our eyebolts are only to be used by personnel that is competent and trained in accordance with the regulations in force at the place of use. Do not walk or stand under a suspended load.

During handling, avoid all dangerous manoeuvres: sudden bumps, jolts, vibrations. Always respect the WLL engraved on the eyebolt. All lifting accessories in contact with the eyebolt must be sized in relation thereto and comply with current regulations. The thread (diameter and/or length) must be adapted to the material to which it will be screwed. It is recommended to use the following length multiplying coefficients:

- 1x for steel (ST 37 minimum)
- 1.25x for grey cast iron
- 2x for aluminium
- 2.5x for light metals

When fixing to a low-strength material, use a larger thread diameter to compensate for the loss of strength.

The threading must comply with current standards and be of sufficient length to accept the entire screw. This product is designed for a temperature of use between -20°C and +200°C.

- From -40°C to -20°C 20% WLL loss
- From +200°C to +300°C 10% WLL loss
- From +300°C to +400°C 25% WLL loss

Avoid use in environments that are corrosive, aggressive and/or sandy, chemical, acidic, steamy, etc. (contact the manufacturer for the use of STAINLESS STEEL eyebolts). The use of angled articulated lifting eyebolts results in WLL reduction coefficients. Refer to the lifting angle table in our technical catalogue to calculate those coefficients.

For any lifting scenarios other than those described in the lifting angle table, contact the manufacturer.

#### ASSEMBLY

The entire support side of the eyebolt must be in contact with the piece to be moved. All movable parts must be able to move freely in all directions without encountering any obstacles to movement. Take the centre of gravity into account. Before each lift, ensure the ring/eye is correctly positioned in the pull direction.

Assembly must be done by hand, without any tools or leverage bars.

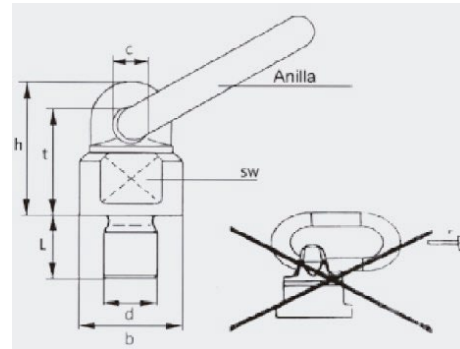
#### INSPECTION AND MAINTENANCE

Inspection must be carried out by personnel that is competent and trained in accordance with the regulations in force at the place of use. A visual inspection before each use is necessary. The following points must be verified:

- Thread condition
- Ability of moving parts to move freely
- Abnormal wear and/or corrosion
- Deformation
- CE marking, traceability marking, and WLL marking

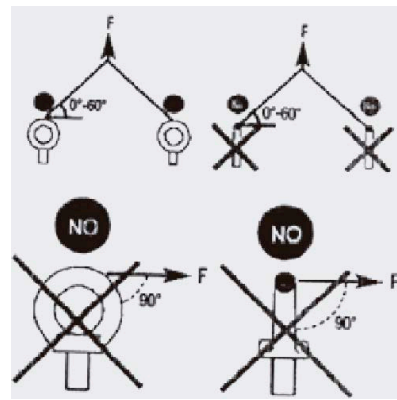
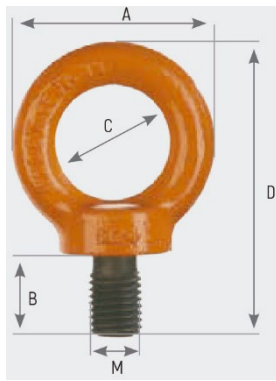
If any of these criteria is not met, the eyebolt must undergo a

closer examination. A thorough annual inspection is mandatory. In specific cases, more frequent in-depth inspections are mandatory (refer to current law). Do not disassemble our articulated eyebolts. Parts are greased for life.



CODE	DIAMETER X THREAD LENGTH	DIN 13 THREAD PITCH	MAIN DIMENSIONS (mm)						WEIGHT (Kg)
			B	C	H	SW	T	RING SIZES	
PHCG81303	8x13	1,25	36	17	53	22	45	13 x 50 x 30	0,40
PHCG101804	10x18	1,50	36	17	53	22	45	13 x 50 x 30	0,40
PHCG121805	12x18	1,75	36	17	53	22	45	13 x 50 x 30	0,40
PHCG142011	14x20	2,00	36	17	53	22	45	13 x 50 x 30	0,40
PHCG162011	16x20	2,00	36	17	53	22	45	13 x 50 x 30	0,40
PHCG203020	20x30	2,50	50	19	68	30	57	16 x 70 x 34	0,90
PHCG243031	24x30	3,00	57	22	78	34	66	18 x 85 x 40	1,40
PHCG273531	27x35	3,25	57	22	78	34	66	18 x 85 x 40	1,50
PHCG303553	30x35	3,50	66	24	97	40	81	20 x 85 x 40	2,20
PHCG303580	30x35	3,50	80	27	112	46	90	22 x 115 x 50	3,60
PHCG365080	36x50	4,00	80	27	112	46	90	22 x 115 x 50	3,70
PHCG395080	39x50	4,00	80	27	112	46	90	22 x 115 x 50	4,30
PHCG425010	42x50	4,50	80	27	112	48	90	25 x 115 x 50	4,10
PHCG485010	48x50	5,00	80	27	112	48	90	22 x 115 x 50	4,30
PHCG568410	56x84	5,50	120	46	168	70	135	32 x 155 x 70	11,40
PHCG649615	64x96	6,00	120	46	168	35	140	34 x 140 x 70	12,80

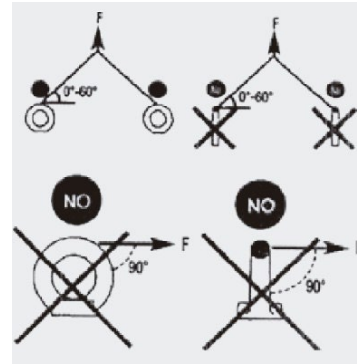
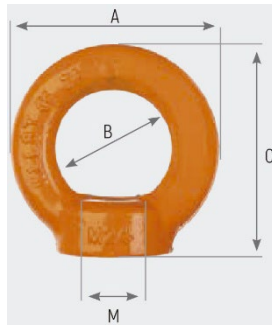
WORKLOAD BASED ON ANGLES AND NUMBERS OF FASTENING POINT											
No OF EYEBOLTS MAX. WORKING LOAD (KG)		1		2		2		3-4		2	3-4
		M.W.L.		M.W.L.		M.W.L.		M.W.L.		M.W.L.	M.W.L.
CODE	THREAD	T	T	T	T	T	T	T	T	T	T
		0°	90°	0°	90°	0 - 45°	45° - 60°	0 - 45°	45° - 60°	G	R
PHCG81303	M8	0,60	0,30	1,20	0,60	0,42	0,30	0,63	0,45	0,30	0,30
PHCG101804	M10	1,00	0,50	2,00	1,00	0,70	0,50	1,05	0,75	0,50	0,50
PHCG121805	M12	1,00	0,50	2,00	1,00	0,70	0,50	1,05	0,75	0,50	0,50
PHCG142011	M14	2,24	1,12	4,00	2,24	1,56	1,12	2,35	1,68	1,12	1,12
PHCG162011	M16	2,24	1,12	4,00	2,24	1,56	1,12	2,35	1,68	1,12	1,12
PHCG203020	M20	4,00	2,00	8,00	4,00	2,80	2,00	4,20	3,00	2,00	2,00
PHCG243031	M24	6,40	3,20	12,80	6,40	4,48	3,20	6,72	4,80	3,20	3,20
PHCG273531	M27	6,40	3,20	12,80	6,40	4,48	3,20	6,72	4,80	3,20	3,20
PHCG303553	M30	10,00	5,00	20,00	10,00	7,00	5,00	10,50	7,50	5,00	5,00
PHCG303580	M30	12,00	8,00	24,00	16,00	11,20	8,00	16,80	12,00	8,00	8,00
PHCG365080	M36	12,00	8,00	24,00	16,00	11,20	8,00	16,80	12,00	8,00	8,00
PHCG395080	M39	12,00	8,00	24,00	16,00	11,20	8,00	16,80	12,00	8,00	8,00
PHCG425010	M42	15,00	10,00	30,00	20,00	14,00	10,00	21,00	15,00	10,00	10,00
PHCG485010	M48	15,00	10,00	30,00	20,00	14,00	10,00	21,00	15,00	10,00	10,00
PHCG568410	M56	22,50	15,00	45,00	30,00	21,00	15,00	31,50	22,50	15,00	15,00
PHCG649615	M64	22,50	15,00	45,00	30,00	21,00	15,00	31,50	22,50	15,00	15,00



MODEL	DIN 13 PITCH	A	B	C	D	WEIGHT
M 6	1,00	28	13	16	42	0,04
M 8	1,25	36	15	20	51	0,05
M 10	1,50	45	18	25	63	0,11
M 12	1,75	54	22	30	75	0,19
M 16	2,00	63	28	35	88	0,29
M 20	2,50	72	30	40	101	0,50
M 24	3,00	90	38	50	128	0,95
M 30	3,50	108	45	60	154	1,76
M 36	4,00	126	55	70	183	3,70
M 42	4,50	144	65	80	212	4,20
M 48	5,00	166	70	90	238	6,35

WORKLOAD BASED ON ANGLES AND NUMBERS OF FASTENING POINT

N <sup>o</sup> OF EYEBOLTS		1	2		3-4	
MAX. WORK LOAD (KG)		M.W.L.	M.W.L.		M.W.L.	
CODE	THREAD	T	T	T	T	T
		0°	0 - 45°	45° - 60°	0 - 45°	45° - 60°
<b>PHCM 06</b>	M6	0,40	0,14	0,10	0,21	0,15
<b>PHCM 08</b>	M8	0,80	0,28	0,20	0,42	0,30
<b>PHCM 10</b>	M10	1,00	0,35	0,25	0,52	0,37
<b>PHCM 12</b>	M12	2,00	0,70	0,50	1,05	0,75
<b>PHCM 16</b>	M16	4,00	1,40	1,00	2,10	1,50
<b>PHCM 20</b>	M20	6,00	2,10	1,50	3,15	2,25
<b>PHCM 24</b>	M24	8,00	2,80	2,00	4,20	3,00
<b>PHCM 30</b>	M30	12,00	4,20	3,00	6,30	4,50
<b>PHCM 36</b>	M36	16,00	5,60	4,00	8,40	6,00
<b>PHCM 42</b>	M42	24,00	8,40	6,00	12,60	9,00
<b>PHCM 48</b>	M48	32,00	11,20	8,00	16,80	12,00



MODEL	DIN 13 PITCH	A	B	C	WEIGHT
M 6	1,00	28	20	36	0,07
M 8	1,25	36	20	36	0,07
M 10	1,50	45	25	45	0,11
M 12	1,75	54	30	53	0,18
M 16	2,00	63	35	62	0,26
M 20	2,50	72	40	71	0,40
M 24	3,00	90	50	90	0,75
M 30	3,50	108	60	109	1,40
M 36	4,00	126	70	128	2,20
M 42	4,50	144	80	147	3,10
M 48	5,00	166	90	168	5,00

WORKLOADS ACCORDING TO ANGLES AND NUMBER OF FASTENING POINTS								
No OF EYEBOLTS		1			2		3-4	
		M.W.L.			M.W.L.		M.W.L.	
MAX WORK LOAD (KG)		T	T	T	T	T	T	
CODE	THREAD	0°	0 - 45°	45° - 60°	0 - 45°	45° - 60°		
<b>PHCH 06</b>	M6	0,40	0,14	0,10	0,21	0,15		
<b>PHCH 08</b>	M8	0,80	0,28	0,20	0,42	0,30		
<b>PHCH 10</b>	M10	1,00	0,35	0,25	0,52	0,37		
<b>PHCH 12</b>	M12	2,00	0,70	0,50	1,05	0,75		
<b>PHCH 16</b>	M16	4,00	1,40	1,00	2,10	1,50		
<b>PHCH 20</b>	M20	6,00	2,10	1,50	3,15	2,25		
<b>PHCH 24</b>	M24	8,00	2,80	2,00	4,20	3,00		
<b>PHCH 30</b>	M30	12,00	4,20	3,00	6,30	4,50		
<b>PHCH 36</b>	M36	16,00	5,60	4,00	8,40	6,00		
<b>PHCH 42</b>	M42	24,00	8,40	6,00	12,60	9,00		
<b>PHCH 48</b>	M48	32,00	11,20	8,00	16,80	12,00		

## **LIMITATION OF WARRANTIES, REDRESS, AND DAMAGES**

THE WARRANTY STATED BELOW HAS BEEN TAKEN FROM ALL OTHER WARRANTIES, WHETHER EXPRESS OR MERCANTILE IN NATURE, WITH GOOD INTENT, FOR A PARTICULAR PURPOSE, NO PROMISE OR REPRESENTATION MADE BY A SELLER, AGENT OR REPRESENTATIVE SHALL CREATE A WARRANTY OF LIABILITY.

The seller guarantees that the merchandise at the time of dispatch is free of factory defects as well as guaranteeing the material with which it has been manufactured.

THE ONLY OBLIGATION OF THE SELLER IS IN THE CASE OF BREACH OF THE CONTRACT OR NEGLIGENCE OF THE SELLER, WITH RESPECT TO THE ITEM SOLD, IN SUCH CASE THE DEFECTIVE PART SHOULD BE REPAIRED OR REPLACED.

In the event that a repair or change is not feasible, the seller will reimburse the buyer for the sale price and the buyer will return the defective piece.

ANY WARRANTY CLAIM AGAINST THE SELLER FOR DEFECTS IN THE MERCHANDISE OR NEGLIGENCE OF THE SELLER WILL NOT BE VALID UNTIL THE PURCHASER MAKES IT KNOWN IN WRITING AND IT IS RECEIVED BY THE SELLER WITHIN SIX MONTHS FROM SHIPPING FROM THE FACTORY.

The seller is not responsible for damages, losses, or injury in these cases:

- 1) If the damage is done after the seller has made the delivery.
- 2) If the equipment is not maintained, inspected, or used following the instructions and recommendations of the manual.
- 3) If the equipment has been installed, repaired, altered, or modified without following the manufacturer's recommendations.

### **INDEMNIFICATION AND SAFETY OPERATION**

The purchaser must comply and make its employees comply with the instructions of the manual published by the manufacturer for the care and maintenance of the equipment. The purchaser must not remove any cautionary or instruction labels from the equipment. Notification must be made in writing within 48 hours after receiving the merchandise of any damages or defects or accidents therewith. The buyer must cooperate with the seller in the investigation of any accidental damage and in the defence of any claim for this reason.

If the buyer fails to comply with this section and any partial or total damage is caused by the buyer's irresponsibility and breach by the buyer of the established legal safety requirements, the buyer must indemnify the seller against any claims by the latter for damages arising from the incorrect use of the merchandise.



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Villabona –Guipúzcoa-Spain 20150

Tel.: (+34) 943 69 12 83 - Fax: (+34) 943 69 18 50

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