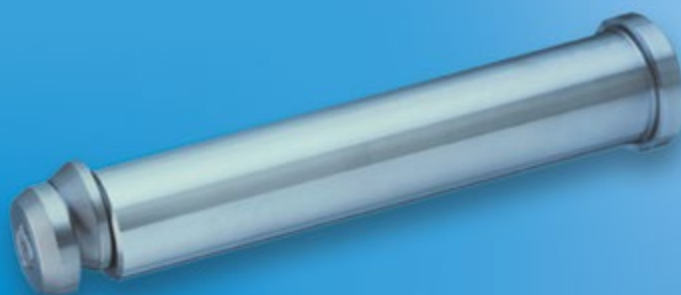


Use and maintenance manual
complete of **EC** conformity declaration

LIFTING PINS



Item Codes: **B02.83**

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1. RISKS VALUATION

The matters of following pages refer to a classic use of lifting pins and they can't forecast not-specified employs. For this reason each user must provide to an own risks valuation and he must pay attention to this manual as general reference support, by considering synthesis necessity for the treatment of the matters.










To define the employ-procedures about the actions to follow, to spread the information and to check the compliance of these ones it's a duty and a responsibility of the user.

The lifting pins have been used as couplet for ropes and chains and they permit to issue on safety actions as: **LIFTING, HANDLING, TURNOVER**; the material, the production and the quality-check of all OMCR lifting pins comply with the **Directive 2006/42/EC** requirements; all OMCR lifting elements have been checked with a static test coefficient even to a minimum 1.5, on all materials have been applied analysis according to **UNI EN 10204**, conventional tensile stress tests according to **UNI EN 10002** have been issued on samples. **Calculations and Risks valuations are in compliance with CPM DIE's drawings.**

WARNING

An improper or opposed use, in reference to the prescribed matter treated in this manual, relieve OMCR from any responsibility related to the above mentioned safety elements.

2. SYMBOLS

 WARNING	It indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 ATTENTION	It indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTE	It is used for advice on use or other especially helpful information.
	General warning symbol.
	Hazard of crushing resulting from the load-fall or turnover.
	Hazard of cutting resulting from the load-fall or turnover.
	Musculoskeletal disorders for the handling of the loads.
	Operazioni o modo d'uso proibiti.
	Mandatory actions to avoid hazards.
	It is forbidden to stop or to transit.

3. USE

3.1

WARNING



Each lifting / handling / turnover operations must be executed from qualified and instructed worker; the lifting / handling / turnover' officers must use individual guard equipment.

3.2

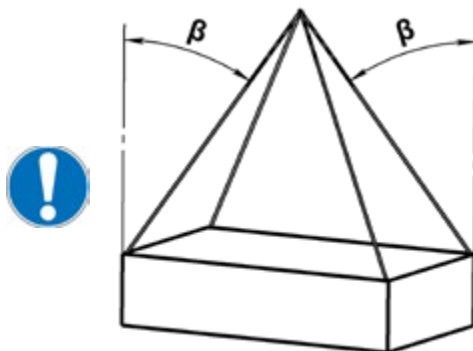
WARNING



Before each lifting / handling / turnover the officers have to choose the more suitable sling to guarantee a safe suspension with a correct load balance. A wrong sling can modify the real capacity load of the ropes/chains and lifting accessories. In the following table you can verify the reduction of the nominal capacity load related to the sling corner to conserve the safety factor.

NOTE

Following the EN 818-06 Norm, in case of asymmetric sling just 2 booms of ropes / chains stand the lifted weight.



SYMMETRIC SLING (SUGGESTED)
(2 O 4 BOOMS) β max. 35°

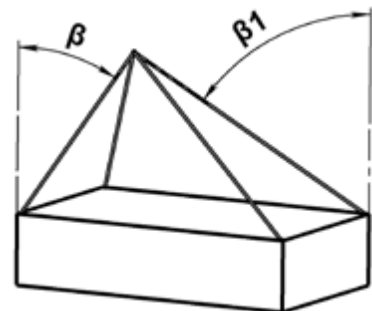
CORNER β_1	REDUCTION FACTOR OF THE NOMINAL CAPACITY LOAD
0°	1
15°	0.96
30°	0.86
35°	0.82

B02.83.60

NOMINAL CAPACITY LOAD 12500 kg

CAPACITY LOAD $\beta = 0^\circ$: 12500 kg

CAPACITY LOAD $\beta = 35^\circ$: $12500 \cdot 0.82 = 10250$ kg



ASYMMETRIC SLING
(2 O 4 BOOMS): $\beta_1 > \beta$

CORNER β_1	REDUCTION FACTOR OF THE NOMINAL CAPACITY LOAD
35°	0.82
50°	0.64
60°	0.5

B02.83.60

NOMINAL CAPACITY LOAD 12500 kg

CAPACITY LOAD $\beta_1 = 35^\circ$: $12500 \cdot 0.82 = 10250$ kg

CAPACITY LOAD $\beta_1 = 60^\circ$: $12500 \cdot 0.5 = 6250$ kg

WARNING

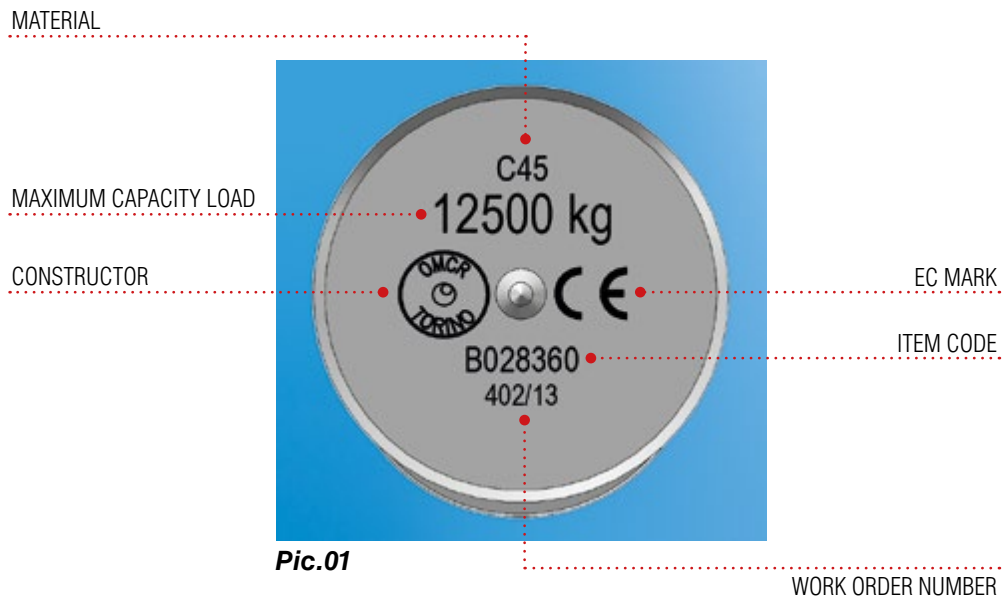
An improper or opposed use, in reference to the prescribed matter treated in this manual, relieve OMCR from any responsibility related to the above mentioned safety elements.

3.3

WARNING



Before each lifting/handling/turnover check that the lifting pins capacity load is in compliance with the die weight (**applied on the plates**); the maximum capacity load, the work order number, the constructor label and the EC conformity mark , are printed by indelible way on the lifting pins (see **Pic.01**).



The lifting pin capacity load must not be lower than $\frac{1}{4}$ of the total die weight in case of lifting and handling.

Ex: Die weight 25000 kg

Minimum capacity load of the pin : $25000/2 = 12500$ kg.

The lifting pin capacity load must not be lower than $\frac{1}{2}$ of the half-die weight in case of turnover.

Ex: Half-die weight 12500 kg

Minimum capacity load of the pin: $12500/2 = 6250$ kg

WARNING

The missing respect of the prescriptions included in this manual can cause the fall or turnover of the load.

3.4

WARNING



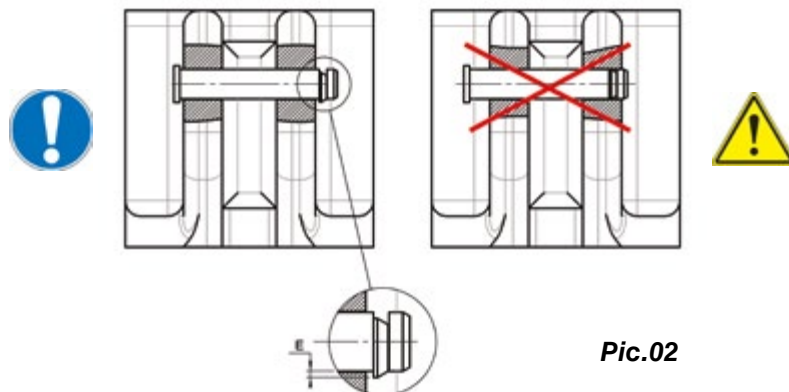
Before each lifting/handling/turnover of the die check that the chose sling (rope/chain, hook, etc) doesn't present any defect or deformation to make it unsafe; **in case eliminate immediately the defective parts.**

3.5

WARNING



Before each lifting/handling/turnover of the die be sure of the correct insertion of the lifting pin that have to be **ABSOLUTELY** assembled **with the safety ring** positioned in direction of the die axis: after inserting it, be sure that the **safety ring** is misaligned in reference to the hole and it prevent the extraction of the pin; verify the movement of the **safety ring** by checking the eccentricity "E" in reference to the pin (see **Pic.02**).



Pic.02

WARNING

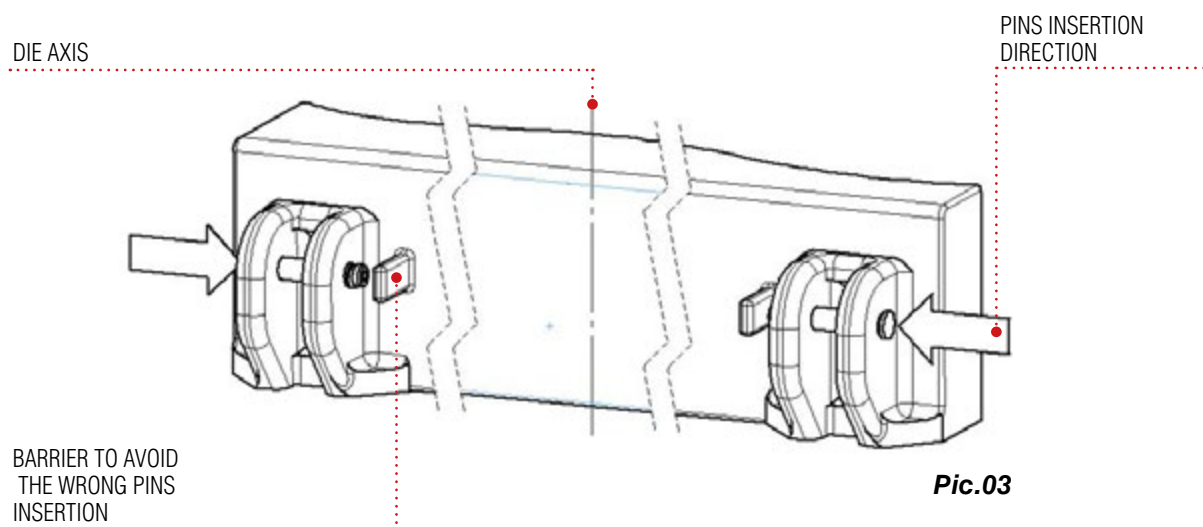
An improper or opposed use, in reference to the prescribed matter treated in this manual, relieve OMCR from any responsibility related to the above mentioned safety elements.

3.6

WARNING



We suggest the use of barriers to avoid a wrong pins insertion (see **Pic.03**)



Pic.03

WARNING

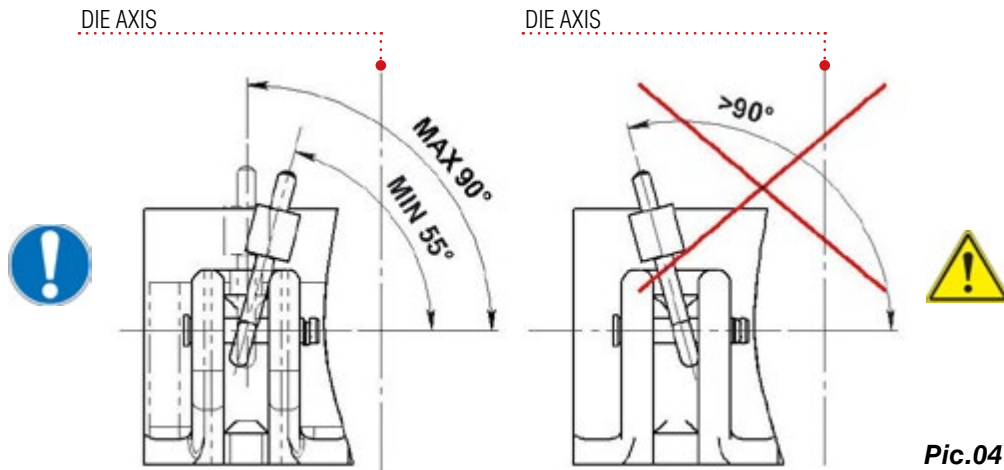
An improper or opposed use, in reference to the prescribed matter treated in this manual, relieve OMCR from any responsibility related to the above mentioned safety elements.

3.7

⚠ WARNING



Don't make lifting/handling/turnover with sling that have corner above 90° in reference to the horizontal level, in opposed case can happen the extraction of the pin with the risk of load fall (see **Pic.04**)



Pic.04

⚠ WARNING

The missing respect of the prescriptions included in this manual can cause the fall or turnover of the load.

3.8

⚠ WARNING



Before each lifting/handling/turnover of the die be sure that:

- the ropes/chains are secured in correct way
- the ropes/chains are not in contact with cutting edge
- the ropes/chains are not hooked to the die corners

⚠ WARNING

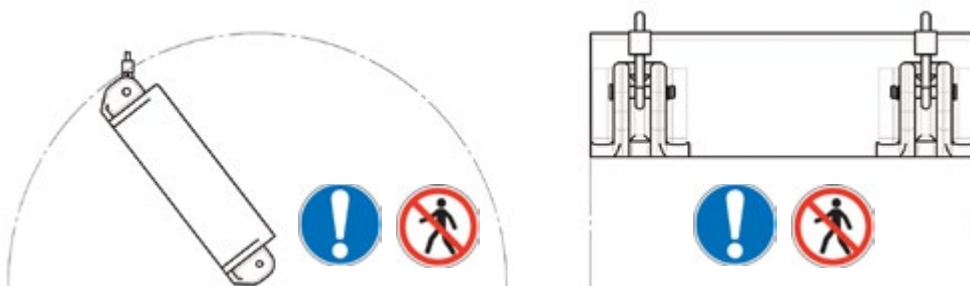
The missing respect of the prescriptions included in this manual can cause the fall or turnover of the load.

3.9

⚠ WARNING



Don't wait or transit nearby the load during the lifting/handling/turnover operations (see **Pic.05**). in case of accidental staging of the load, can happen risks of own damage.



Pic.05

4. HANDLING AND STOCKING

4.1 All OMCR lifting pins have a unit weight lower than 15 kg and they can be moved by hand.

4.2 The lifting pins must be stocked far from humidity, if not used, and protected from oxidation by applying protective oil.

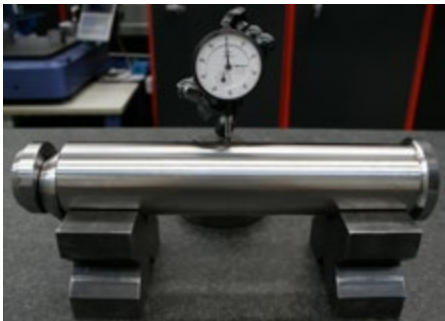
5. MAINTENANCE

5.1 Each 6 months make visual tests to check the presence of visible anomalies or beginning of oxidation: in case restore or replace the pointed pins.

5.2 Each 12 months check the cilindricity to verify eventual permanent deformations (see **Pic.06**): in case of mistakes over 0,15 mm replace the pointed pins.

5.4 In case of unforeseen settlements of lifting ropes/chains with a following overload on the lifting pins, check the cilindricity of these last ones (see **Pic.06**) to verify eventual deformations; in case of mistakes over 0,15 mm replace the pointed pins.

5.5 In case of accidental impacts in the sling-zone during the lifting, handling and turnover operations, check the cilindricity of these last ones (see **Pic.06**) to verify eventual deformations; in case of mistakes over 0,15 mm replace the pointed pins; make even a visual test on the integral fusion bracket to verify the presence of damages.



Pic.06

EC CONFORMITY DECLARATION

(Directive 2006/42/EC)

OMCR S.r.l. with seat in Via Quarantelli, 8 – 10077 S.Maurizio C.se – (Torino-Italy) through its legal representative manager , declares that:

LIFTING PINS

Item code: B02.83

Have a work order number marked on each individual model, from that, every time, it's possible to find out the documents filed in the Technical Office and so to identify each feature and each production and final inspection elements.

All quality and safety proceedings arranged from Mr.Bertorello, responsible fo the “technical file”, acting in OMCR's seat, Via Quarantelli,8 10077 San Maurizio

c.se, have been exactly issued to permit the mark of **EC** symbol to guarantee that these items:



- *Are in compliance with the established conditions from Directive 2006/42/EC of 9.6.2006.*
- *Are subjected to tests and controls, to be suitable also with the harmonized and national UNI Norms, the European Directive and the italian dispositions for the safety on work.*

Before using lifting pins, please read with attention the use and maintenance manual.

An improper or opposed use, in reference to the prescribed matter treated in this manual, deleted this EC conformity declaration and relieve OMCR from any responsibility about.

OMCR S.r.l.
The legal representative
Domenico Zentilin



*Translation of the original use and Maintenance Manual
and Conformity Declaration
In case of doubts or misunderstandings, the Italian
version is decisive.*