CAGE-NUT
DADI IN GABBIA QUADRA
SQUARE CAGE NUTS
**Specialinsert®** è un'azienda presente nel mondo dei sistemi di fissaggio dal 1974. Nasce per iniziativa di tre tecnici commerciali che, grazie alla loro esperienza nel settore dei fastener, decidono di avviare la commercializzazione in proprio, affiancandole negli anni l’attività di fabbricazione.

Con tre unità locali, due depositi, due siti di produzione italiani, un ufficio R&S ed due laboratori prove, **Specialinsert®** è in grado di fornire ai clienti soluzioni sempre più avanzate e adatte ai diversi problemi di fissaggio.

**Specialinsert®** vanta una serie di proposte con soluzioni di fissaggio meccanico adatte a vari settori di applicazione: laminati tubolari metallici, componenti meccanici e plastic, legno, lapidei, nuovi materiali compositi e materiali innovativi quali solid surface, questi ultimi indicati particolarmente per applicazioni su arredi o edili.

**Specialinsert®** è associata UNI, Ente Nazionale di Unificazione. Membro della Commissione Organi Meccanici.

**Specialinsert®** was established in 1974 by three sales agents who decided to exploit their experience in the fasteners industry to start up their own retail business. The company later developed and started its own production.

With three local branches, two warehouses, two production plants in Italy, an R&D office and two testing labs, **Specialinsert®** supplies cutting edge solutions suited to solving the most diverse fastening problems.

**Specialinsert®** offers a series of proposals with mechanical fixing solutions suitable for various application sectors such as: metal tubular laminates, mechanical and plastic components, wood, stone, new composite materials and innovative materials such as solid surface, the latter particularly suitable for applications on furniture or buildings.

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**PRODOTTI - PRODUCTS**

**LAMINATI - SHEET METAL**
Inserti per laminati, profilati, tubolari
*Inserts for sheet metal, section bars, tubes*

**CORPI SOLIDI - SOLID PARTS**
Inserti per corpi solidi, legno, metallo
*Inserts for solid, wood, metal parts*

**PLASTICA - PLASTIC**
Inserti per materie plastiche
*Inserts for plastic materials*

**COMPOSITI - COMPOSITES**
Inserti per materiali compositi
*Inserts for composite materials*

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**Specialinsert®** is dedicated to the continuous improvement of its products and for this reason reserves the right to make any modifications to its technical or engineering specifications without notice: for the latest updates please refer to the technical data sheets published on our website www.specialinsert.it. This document is protected by copyright. None of its parts may be reproduced or transmitted to third parties without permission.

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**Specialinsert®** è associata UNI, Ente Nazionale di Unificazione. Membro della Commissione Organi Meccanici.
**Specialinsert®** is UNI associated, National Unification Body. Member of the Mechanical Orders Commission.

**Specialinsert®** al fianco delle università per innovare. **Specialinsert®** alongside universities on innovations.
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<table>
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Specialinsert® is dedicated to the ongoing improvement of its products and for this reason reserves the right to make any modifications to its technical or engineering specifications without notice. This document is protected by copyright. None of its parts may be reproduced or transmitted to third parties without permission.
Il **CAGE-NUT** è un dado quadro metallico filettato, racchiuso in una gabbia elastica. L’estrema facilità di montaggio senza l’ausilio di utensili specifici, l’ampia gamma e la caratteristica flottante del dado rendono il **CAGE-NUT** l’inserto ideale per il fissaggio su laminati metallici.

The **CAGE-NUT** is a metal threaded square nut, enclosed in an elastic cage. The easiness of assembly without the help of specific tools, the wide range of products and the nut’s floating feature, make the **CAGE-NUT** the ideal insert for fastening on sheet metal.

### COME SI MONTA

<table>
<thead>
<tr>
<th></th>
<th>Individuare il <strong>CAGE-NUT</strong> in funzione di:</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>• materiale del dado in gabbia</td>
</tr>
<tr>
<td></td>
<td>• diametro del filetto</td>
</tr>
<tr>
<td></td>
<td>• spessore del laminato</td>
</tr>
<tr>
<td></td>
<td>• dimensione del foro quadro da eseguire.</td>
</tr>
<tr>
<td>2</td>
<td>Predisporre la sede con il foro quadro prescelto.</td>
</tr>
<tr>
<td>3</td>
<td>Inserire manualmente il dado nel foro comprimendo leggermente la gabbia elastica dal lato posteriore del supporto sul quale lo si vuole applicare. Slight differences in positioning are absorbed as the nut is mobile in the cage.</td>
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### INSTALLATION INSTRUCTIONS

<table>
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<tr>
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<th>Choose the <strong>CAGE-NUT</strong> according to:</th>
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<tr>
<td>1</td>
<td>• Cage-Nut material</td>
</tr>
<tr>
<td></td>
<td>• thread diameter</td>
</tr>
<tr>
<td></td>
<td>• sheet metal thickness</td>
</tr>
<tr>
<td></td>
<td>• size of the square hole to boar.</td>
</tr>
<tr>
<td>2</td>
<td>Prepare the seat with the chosen square hole.</td>
</tr>
<tr>
<td>3</td>
<td>Manually insert the nut into the hole by slightly compressing the spring cage from the rear side of the bracket to which it is to be applied.</td>
</tr>
</tbody>
</table>

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**CARATTERISTICHE DADI IN GABBIA - CAGE-NUT FEATURES**

**Il CAGE-NUT** è un dado quadro metallico filettato, racchiuso in una gabbia elastica. L’estrema facilità di montaggio senza l’ausilio di utensili specifici, l’ampia gamma e la caratteristica flottante del dado rendono il **CAGE-NUT** l’inserto ideale per il fissaggio su laminati metallici.

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PRODOTTI SPECIALI - SPECIAL PRODUCTS

PRODOTTI SPECIALI SONO FORNIBILI A RICHIESTA.
PER ULTERIORI INFORMAZIONI CONTATTARE IL SERVIZIO TECNICO SPECIALINSERT®.

SPECIAL PRODUCTS AVAILABLE ON REQUEST.
FOR FURTHER INFORMATION PLEASE CONTACT SPECIALINSERT® TECHNICAL DEPARTMENT.
**SERIE ACCIAIO - ACCIAIO**

STEEL - STEEL SERIES

<table>
<thead>
<tr>
<th>CODICE CODE</th>
<th>Filettatura metrica Grasp range</th>
<th>Spessore lamiera Grip range</th>
<th>Dimensione dado Nut size</th>
<th>Larg. gabbia Cage width</th>
<th>Altezza dado Nut height</th>
<th>Larg. aletta Wing width</th>
<th>Spessore gabbia Cage thickness</th>
<th>Ingombro gabbia Overall cage dimension</th>
<th>Ingombro posteriore Rear overall dimension</th>
<th>Foro lamiera Hole size</th>
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<td>3,6</td>
<td>± 0,2</td>
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</table>

**APPLICAZIONE - APPLICATION**

Laminati metallici e non.
Sheet metal and non-metal.

**MONTAGGIO - ASSEMBLY**

Inserimento a pressione.
By pressure.

Le dimensioni sono indicative, non vincolanti, espresse in mm. - Non binding dimensions, expressed in mm.
MATERIALE E TRATTAMENTO SUPERFICIALE

**MATERIAL AND SURFACE TREATMENT**

*Dado*: acciaio zincato bianco.  
**Gabbia**: acciaio zincato bianco. 

*Nut*: white zinc-plated steel.  
**Cage**: white zinc-plated steel.

FILETTATURA - THREAD

Filettatura metrica ISO. 
ISO metrical thread.

<table>
<thead>
<tr>
<th>CODICE CODE</th>
<th>Filettatura metrica</th>
<th>Spessore lamiera</th>
<th>Dimensione dado</th>
<th>Larg. gabbia</th>
<th>Altezza dado</th>
<th>Larg. aletta</th>
<th>Spessore gabbia</th>
<th>Ingombro gabbia</th>
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<tbody>
<tr>
<td></td>
<td>Metric thread</td>
<td>Grip range</td>
<td>Nut size</td>
<td>Cage width</td>
<td>Nut height</td>
<td>Wing width</td>
<td>Cage thickness</td>
<td>Overall cage dimension</td>
<td>Rear overall dimension</td>
<td>Hole size</td>
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<td></td>
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<td>(A) (C) (D) (E) (F) (G) ± 0,2</td>
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Le dimensioni sono indicative, non vincolanti, espresse in mm. - Non binding dimensions, expressed in mm.
### SERIE ACCIAIO - ACCIAIO INOX
#### STEEL-STAINLESS STEEL SERIES

**DADI IN GABBIA QUADRA**

**SQUARE CAGE NUTS**

#### APPLICAZIONE - APPLICATION

Laminati metallici e non.
Sheet metal and non-metal.

#### MONTAGGIO - ASSEMBLY

Inserimento a pressione.
By pressure.

<table>
<thead>
<tr>
<th>CODICE CODE</th>
<th>Filettatura metrica</th>
<th>Spessore lamiera grip range</th>
<th>Dimensione dado Nut size</th>
<th>Larg. gabbia Cage width</th>
<th>Altezza dado Nut height</th>
<th>Larg. aletta Wing width</th>
<th>Spessore gabbia Cage thickness</th>
<th>Ingombro gabbia Overall cage dimension</th>
<th>Ingombro posteriore Rear overall dimension</th>
<th>Foro lamiera Hole size</th>
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</thead>
<tbody>
<tr>
<td>M03AX53</td>
<td>M3</td>
<td>0,3 ± 0,9</td>
<td>8x8x2,5</td>
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<td>4,8</td>
<td>0,3</td>
<td>9,7</td>
<td>3,6</td>
<td>± 0,2</td>
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<td>0,7 ± 1,6</td>
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<td>7,2</td>
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<td>0,45</td>
<td>10,3</td>
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<td>6,7</td>
</tr>
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<td>7,2</td>
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<td>8,0</td>
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<td>0,45</td>
<td>12,2</td>
<td>6,0</td>
<td>8,3</td>
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</tbody>
</table>

Le dimensioni sono indicative, non vincolanti, espresse in mm. - Non binding dimensions, expressed in mm.
**MATERIALE E TRATTAMENTO SUPERFICIALE**

*MATERIAL AND SURFACE TREATMENT*

*Dado*: acciaio zincato bianco. *Gabbia*: acciaio inox allo stato naturale.


---

**FILETTATURA - THREAD**

Filettatura metrica ISO.

*ISO metrical thread.*

<table>
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<tr>
<th>CODICE CODE</th>
<th>Filettatura metrica</th>
<th>Spessore lamiera</th>
<th>Dimensione dado</th>
<th>Larg. gabbia</th>
<th>Altezza dado</th>
<th>Larg. aletta</th>
<th>Spessore gabbia</th>
<th>Ingombro gabbia</th>
<th>Ingombro posteriore</th>
<th>Foro lamiera</th>
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<tbody>
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<td>13,5</td>
<td>6,0</td>
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<td>8,7</td>
<td>8,2</td>
<td>0,5</td>
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<td>9,5</td>
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<tr>
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<td>0,5</td>
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<td>9,5</td>
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<td>8,7</td>
<td>8,2</td>
<td>0,5</td>
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<td>9,5</td>
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<td>8,7</td>
<td>8,2</td>
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<td>9,5</td>
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<td>13,5</td>
<td>6,0</td>
<td>9,5</td>
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</table>

Le dimensioni sono indicative, non vincolanti, espresse in mm. - Non binding dimensions, expressed in mm.

[Diagram 1](image1)

[Diagram 2](image2)

For maggiori informazioni riguardanti le disponibilità contattare l’ufficio commerciale Specialinsert®. For more information regarding product availability contact the Specialinsert® sales office.
SERIE ACCIAIO INOX - ACCIAIO INOX
STAINLESS STEEL-STAINLESS STEEL SERIES

DADI IN GABBIA QUADRA

SQUARE CAGE NUTS

**APPLICAZIONE - APPLICATION**
Laminati metallici e non.
Sheet metal and non-metal.

**MONTAGGIO - ASSEMBLY**
Inserimento a pressione.
By pressure.

<table>
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<tr>
<th>CODICE CODE</th>
<th>Filettatura metrica Metric thread</th>
<th>Spessore lamiera Grip range</th>
<th>Dimensione dado Nut size</th>
<th>Larg. gabbia Cage width</th>
<th>Altezza dado Nut height</th>
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<th>Foro lamiera Hole size</th>
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<td>M4</td>
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<td>4,8</td>
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</tr>
</tbody>
</table>

Le dimensioni sono indicative, non vincolanti, espresse in mm. - Non binding dimensions, expressed in mm.
### MATERIALE E TRATTAMENTO SUPERFICIALE

**Dado:** acciaio inox allo stato naturale. **Gabbia:** acciaio inox allo stato naturale.  
**Nut:** stainless steel in its natural state. **Cage:** stainless steel in its natural state.

### FILETTATURA - THREAD

Filettatura metrica ISO. **ISO metrical thread.**

<table>
<thead>
<tr>
<th>CODICE</th>
<th>Filettatura metrica</th>
<th>Spessore lamiera</th>
<th>Dimensione dado</th>
<th>Larg. gabbia</th>
<th>Altezza dado</th>
<th>Spessore gabbia</th>
<th>Ingombro gabbia</th>
<th>Ingombro posteriore</th>
<th>Foro lamiera</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1,0 + 1,7</td>
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<td>0,5</td>
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<td>7,8</td>
<td>± 0,2</td>
</tr>
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Le dimensioni sono indicative, non vincolanti, espresse in mm. - Non binding dimensions, expressed in mm.
### SERIE DADI AD ALETTA

**WING NUTS - SERIES**

**DADI AD ALETTA**

**WING NUTS**

#### APPLICAZIONE - APPLICATION

Laminati metallici e non.
Sheet metal and non-metal.

#### MONTAGGIO - ASSEMBLY

Inserimento a pressione.
By pressure.

#### MATERIALE E TRATTAMENTO SUPERFICIALE

**MATERIAL AND SURFACE TREATMENT**


#### FILETTATURA - THREAD

Filettatura metrica ISO - ISO metrical thread.

<table>
<thead>
<tr>
<th>CODICE</th>
<th>Filettatura metrica</th>
<th>Spessore lamiera</th>
<th>Dimensione dado</th>
<th>Dimensione gabbia</th>
<th>Altezza aletta</th>
<th>Dimensione aletta</th>
<th>Spessore aletta</th>
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Le dimensioni sono indicative, non vincolanti, espresse in mm. - Non binding dimensions, expressed in mm.
## SERIE DADI TONDI IN GABBIA
### ROUND CAGE NUTS - SERIES

**DADI TONDI IN GABBIA**

**ROUND CAGE NUTS**

### APPLICAZIONE - APPLICATION
Laminati metallici e non.
Sheet metal and non-metal.

### MONTAGGIO - ASSEMBLY
Mediante avvitamento.
By screwing

### MATERIALE E TRATTAMENTO SUPERFICIALE
**MATERIAL AND SURFACE TREATMENT**

### FILETTATURA - THREAD
Filettatura metrica ISO - ISO metrical thread.

### CODICE CODE

<table>
<thead>
<tr>
<th>CODICE CODE</th>
<th>Diametro foratura (dS) (±0,1)</th>
<th>Spessore testina (E)</th>
<th>Spessore lamiera (A)</th>
<th>Altezza totale (B)</th>
<th>Spessore lamiera (S)</th>
<th>Spessore lamiera (d1)</th>
<th>Diametro gabbia (E)</th>
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</table>

* Per fori senza svasatura.
* For holes without countersinking.

Le dimensioni sono indicative, non vincolanti, espresse in mm. - Non binding dimensions, expressed in mm.
**SERVIZI E PROCESSI**

Assistenza tecnica dei nostri commerciali prima, durante e post consegna dei prodotti, con consigli mirati per l’acquisto del sistema di fissaggio più adatto per lo scopo. Grazie a questo nostro servizio i clienti avranno sempre un punto fermo a cui rivolgersi in caso di problematiche: il tecnico Specialinsert®.

Nei nostri laboratori si eseguono controlli della produzione e prove a supporto delle specifiche applicazioni cliente, tra cui:

- Trazione
- Torsione
- Durezza
- Compressione
- Controllo apparecchiature
- Controllo statistico di processo

**RICERCA E SVILUPPO**

La presenza all’interno dell’azienda dei laboratori tecnologici e dell’ufficio studi permette a Specialinsert® di trovare sempre nuove soluzioni di fissaggio sia su specifiche problematiche dei clienti, che da proprie ricerche. Grazie alle unità sopra descritte sono stati depositati diversi marchi e vari brevetti.

**PERCHÉ SCEGLIERE SPECIALINSERT®?**

- Ricerca e Sviluppo.
- Assistenza costante.
- Continua innovazione tecnologica.
- Rete di vendita tecnicamente qualificata alle dirette dipendenze.
- Soluzioni a 360° per ogni settore, versatilità, flessibilità, dinamismo.
- Alta specializzazione.

**ASSISTENZA VENDITE**

I funzionari tecnico-commerciali, alle dirette dipendenze della Specialinsert®, sono in grado di valutare le vostre esigenze e dotati di tutto ciò che serve per effettuare dimostrazioni pratiche presso i vostri stabilimenti.

**QUALITÀ**

La Direzione Specialinsert® ha implementato un Sistema integrato di Gestione per la Qualità e per la Sicurezza e Salute sul lavoro definendo la Politica aziendale e le procedure di sistema documentate.

La Politica per la Qualità e Sicurezza rappresenta interamente gli intendimenti della Direzione ed è considerata parte integrante e prioritaria per l’intera gestione aziendale. Essa viene definita e approvata periodicamente. La presenza all’interno dell’azienda dei laboratori tecnologici e dell’ufficio studi permette a Specialinsert® di trovare sempre nuove soluzioni di fissaggio sia su specifiche problematiche dei clienti, che da proprie ricerche. Grazie alle unità sopra descritte sono stati depositati diversi marchi e vari brevetti.

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SERVICES AND PROCESSES

Technical assistance is supplied by our sales team before, during and after product delivery by providing targeted advice to buy the most suitable fasteners for all purposes. Our customers know they have someone they can rely on to solve problems: their Specialinsert® technician.

In our technical labs, production checks and tests are carried out in support of specific customer applications, including:

- Pull-out tests
- Torque tests
- Compression tests
- Hardness tests
- Equipment inspection
- Statistic process monitoring

R&D

Our testing labs and R&D office are constantly seeking new fastening solutions, providing answers to our customers’ request and developing their own lines of research. As a result, Specialinsert® has filed many patents and various trademarks.

WHY CHOOSE SPECIALINSERT®?

- R&D.
- Continuous assistance.
- Continuous technological innovation.
- Technically qualified sales staff directly employed by the company.
- 360° solutions for all fields, versatility, flexibility and dynamism.
- High specialization.

SALES ASSISTANCE

Our technical sales staff, directly employed by Specialinsert®, is able to assess your needs and is fully equipped to set up practical demonstrations at your plant.

QUALITY

Specialinsert® has an integrated Global Safety & Quality System. Policies of both systems are seen as an integral, priority part of company management as a whole. The company’s managers periodically update and approve the Quality Assurance & Safety Policy. Specialinsert® is IATF certified, the international quality standard for the automotive sector. A recognition that guarantees efficiency and effectiveness throughout the production process, customer satisfaction and continuous improvement.