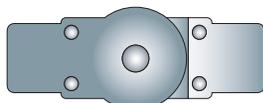
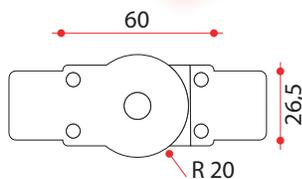


Cerniera / Hinge

**EXTRA & EXTRA SUPER**



**BREVETTATO  
PATENTED**

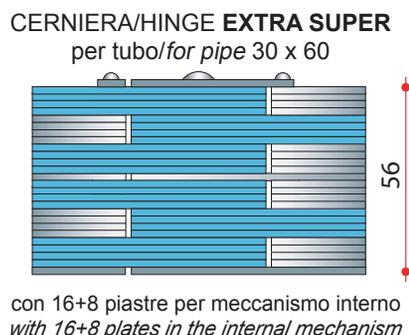
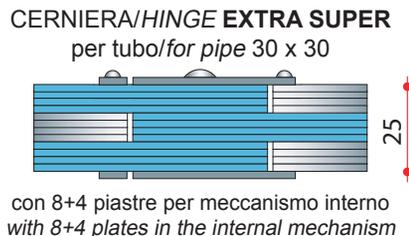
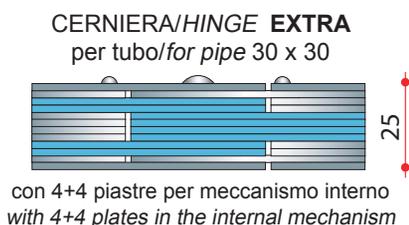
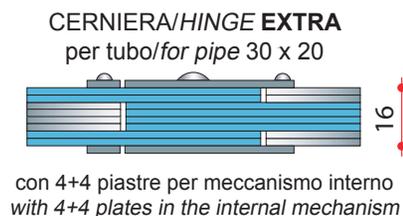


La serie **EXTRA** è la nuova risposta della Officina Meccanica Tornaghi alle esigenze di resistenza, compattezza e poco ingombro nel settore delle cerniere a scatto per divani da inserire nei tubi. Le cerniere **EXTRA** sono state studiate per sopportare grossi carichi e sono la soluzione ideale per chi ha bisogno di sicurezza di un prodotto di altissima qualità e che non si rompa alle sollecitazioni esterne. La struttura lamellare a doppio meccanismo interno in acciaio speciale al carbonio permette di avere una resistenza al carico e all'usura eccezionale. Queste cerniere sono state progettate per essere inserite in tubi di spessore 1,2 mm (max teorico 1,5 mm). Oltre ai modelli elencati, per fare fronte alle richieste particolari, sono state già sviluppate numerose varianti.

Alcune versioni delle cerniere **EXTRA** e **EXTRA SUPER** sono disponibili anche nelle versioni **INNO** e **INNO 2** adatte a realizzazioni dove non è possibile utilizzare direttamente l'innesto del tubo. Per ordinare queste particolari versioni è sufficiente aggiungere al codice scelto **INNO** o **INNO2**.

The **EXTRA** series is a new solution that the Officina Meccanica Tornaghi offers to meet needs for great resistance, compactness and small dimensions in the field of functional fittings to be mounted in the pipes of the sofa and bed frames. The **EXTRA** hinges have been designed to stand great workloads and are the ideal solution for those who seek safety ensured by a high quality product capable to resist external stress. The layered structure with double internal mechanism made of special carbonitrided steel allows to achieve a remarkable wear and tear resistance as well as load bearing capacity. These hinges have been designed to fit 1,2 mm (up to 1,5 mm) thick pipes. Besides the below listed models in order to meet particular needs, numerous versions have already been developed.

Some of the **EXTRA** and **EXTRA SUPER** hinges are also available in **INNO** and **INNO2** versions, suitable for solutions in which it is not possible to insert the hinge directly into the pipe. To order these particular versions it is enough to add **INNO** or **INNO2** to the selected product code.



**INNO**

CERNIERA/HINGE **EXTRA**  
per tubo/for pipe 30 x 20

con 4+4 piastre/plates per meccanismo interno  
internal mechanism

CERNIERA/HINGE **EXTRA**  
per tubo/for pipe 30 x 30

con 4+4 piastre/plates per meccanismo interno  
internal mechanism

CERNIERA/HINGE **EXTRA SUPER**  
versione irrobustita  
strengthened version  
per tubo/for pipe 30 x 30

con 8+4 piastre/plates per meccanismo interno  
internal mechanism

CERNIERA/HINGE **EXTRA SUPER**  
versione irrobustita  
strengthened version  
per tubo/for pipe 30 x 60

con 16+8 piastre/plates per meccanismo interno  
internal mechanism

**BREVETTATO  
PATENTED**

**INNO 2**

CERNIERA/HINGE **EXTRA**  
per tubo/for pipe 30 x 20

con 4+4 piastre/plates per meccanismo interno  
internal mechanism

CERNIERA/HINGE **EXTRA**  
per tubo/for pipe 30 x 30

con 4+4 piastre/plates per meccanismo interno  
internal mechanism

CERNIERA/HINGE **EXTRA SUPER**  
versione irrobustita  
strengthened version  
per tubo/for pipe 30 x 30

con 8+4 piastre/plates per meccanismo interno  
internal mechanism

CERNIERA/HINGE **EXTRA SUPER**  
versione irrobustita  
strengthened version  
per tubo/for pipe 30 x 60

con 16+8 piastre/plates per meccanismo interno  
internal mechanism

**BREVETTATO  
PATENTED**



# Tornaghi

officina meccanica

Movimenti in ferro  
Functional fittings

## Cerniera / Hinge

### EXTRA & EXTRA SUPER

**CATAS**  
centro ricerche e sviluppo  
laboratorio prove settore legami-arrabi

CATAS S.p.A.  
Inscr. Reg. Imprese Udine  
nr. iscr. C.F. 01818850305  
Reg. Imp. I/D 20663  
P. IVA: 01818850305  
C. Soc. € 1.003.650,00 i.c.

Sede: Via Amicis, 24/3  
33048 S. Giovanni al Nat. UD  
Tel. 0432.747250  
Fax 039.464567  
http://www.catas.com  
e-mail: lab@catas.com

Filiale:  
Via Braille, 5  
20035 Lissone MB  
Tel. 039.464567  
Fax 039.464565  
e-mail: fissone@catas.com

**TEST REPORT**  
**117833 / 1**

Date received: 10-06-10  
Date of test: 16-06-10  
Date of issue: 17-06-10  
Sample name: Cerniera EXTRA 30X30

OFFICINA MECCANICA TORNAGHI A. DI  
TORNAGHI G.  
VIA M. L. KING, 17  
20050 CORREZZANA (MI)  
ITALY

---

**Flexural strength - Catas Procedure**

Tube length: 200 mm  
Cross section of tube: Square (30 x 30 mm)  
Hinge setting: mid position  
Test equipment: Instron Dynamometer mod. 5585  
Test speed: 10 mm/min  
Test conditions: 23±2°C  
Sample preparation: Carried out by the customer  
(tubes were welded on the hinge)

Specimen n°	Maximum load N	Maximum moment Nm	Remarks
1	2.613	523	A loss of serviceability of the hinge has been noticed.

This document is validated by digital signature and time stamping in accordance with the Italian law and the European Directives which regulate the electronic signature systems.

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise stated, sampling has been carried out by the orderer.

pag. 1/1

**CATAS**  
centro ricerche e sviluppo  
laboratorio prove settore legami-arrabi

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Filiale:  
Via Braille, 5  
20035 Lissone MB  
Tel. 039.464567  
Fax 039.464565  
e-mail: fissone@catas.com

**TEST REPORT**  
**117832 / 1**

Date received: 10-06-10  
Date of test: 16-06-10  
Date of issue: 17-06-10  
Sample name: Cerniera EXTRA SUPER

OFFICINA MECCANICA TORNAGHI A. DI  
TORNAGHI G.  
VIA M. L. KING, 17  
20050 CORREZZANA (MI)  
ITALY

---

**Flexural strength - Catas Procedure**

Tube length: 200 mm  
Cross section of tube: Square (30 x 30 mm)  
Hinge setting: mid position  
Test equipment: Instron Dynamometer mod. 5585  
Test speed: 10 mm/min  
Test conditions: 23±2°C  
Sample preparation: Carried out by the customer  
(tubes were welded on the hinge)

Specimen n°	Maximum load N	Maximum moment Nm	Remarks
1	3.932	786	A loss of serviceability of the hinge has been noticed.

This document is validated by digital signature and time stamping in accordance with the Italian law and the European Directives which regulate the electronic signature systems.

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise stated, sampling has been carried out by the orderer.

pag. 1/1



2 posizioni rovescio / 2 positions reverse

15° - 0° **Sgancio / Release**

**Extra**

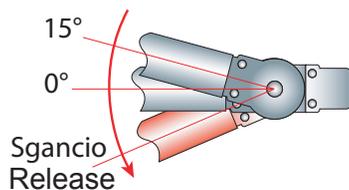
Cod. tubo/pipe 30 x 20: **AC52EXR**

Cod. tubo/pipe 30 x 30: **AC62EXR**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC62EXSUR**

Cod. tubo/pipe 30 x 60: **AC92EXSUR**



3 posizioni dritto / 3 positions straight

0° 15° 30° **Sgancio / Release**

**Extra**

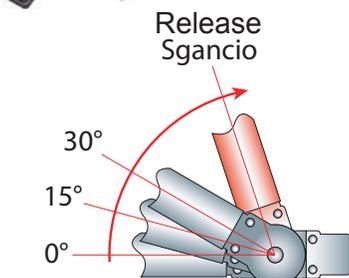
Cod. tubo/pipe 30 x 20: **AC53EX**

Cod. tubo/pipe 30 x 30: **AC63EX**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC63EXSU**

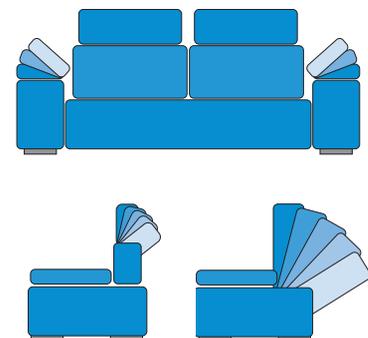
Cod. tubo/pipe 30 x 60: **AC93EXSU**



Questi prodotti sono utilizzabili per  
BRACCIOLI, POGGIATESTA  
e SCHIENALI

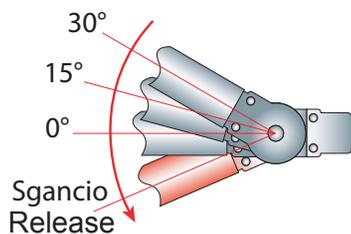
These products can be used for  
ARMRESTS, HEADRESTS and  
BACKRESTS

Esempi di applicazione  
Example of use



Cerniera / Hinge

**EXTRA & EXTRA SUPER**



3 posizioni rovescio / 3 positions reverse

30° 15° 0° **Sgancio / Release**

**Extra**

Cod. tubo/pipe 30 x 20: **AC53EXR**

Cod. tubo/pipe 30 x 30: **AC63EXR**

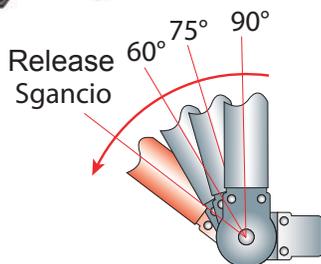
**Extra Super**

Cod. tubo/pipe 30 x 30: **AC63EXSUR**

Cod. tubo/pipe 30 x 60: **AC93EXSUR**

Questi prodotti sono utilizzabili per  
BRACCIOLI, POGGIATESTA  
e SCHIENALI

These products can be used for  
ARMRESTS, HEADRESTS and  
BACKRESTS



3 posizioni rovescio 90° / 3 positions reverse 90°

90° 75° 60° **Sgancio / Release**

**Extra**

Cod. tubo/pipe 30 x 20: **AC53EXR90**

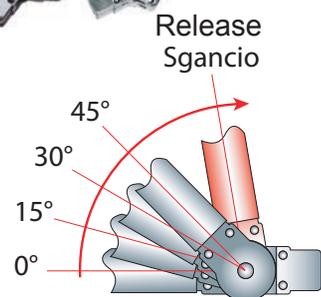
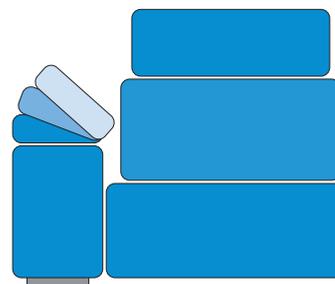
Cod. tubo/pipe 30 x 30: **AC63EXR90**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC63EXSUR90**

Cod. tubo/pipe 30 x 60: **AC93EXSUR90**

Esempi di applicazione  
Example of use



4 posizioni dritto / 4 positions straight

0° 15° 30° 45° **Sgancio / Release**

**Extra**

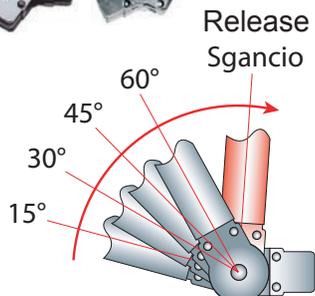
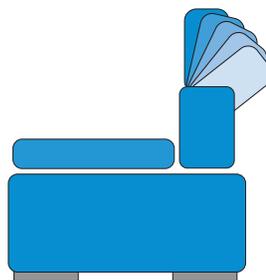
Cod. tubo/pipe 30 x 20: **AC54EX**

Cod. tubo/pipe 30 x 30: **AC64EX**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC64EXSU**

Cod. tubo/pipe 30 x 60: **AC94EXSU**



4 posizioni dritto 15° / 4 positions straight 15°

15° 30° 45° 60° **Sgancio / Release**

**Extra**

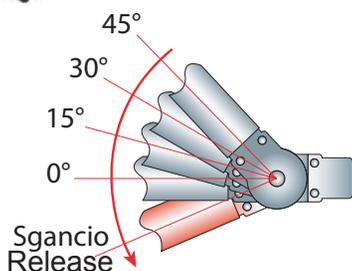
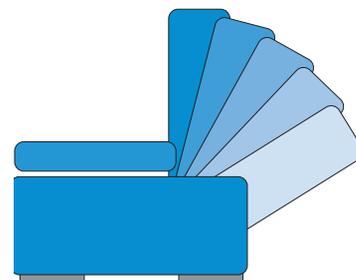
Cod. tubo/pipe 30 x 20: **AC5415EX**

Cod. tubo/pipe 30 x 30: **AC6415EX**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC6415EXSU**

Cod. tubo/pipe 30 x 60: **AC9415EXSU**



4 posizioni rovescio / 4 positions reverse

45° 30° 15° 0° **Sgancio / Release**

**Extra**

Cod. tubo/pipe 30 x 20: **AC54EXR**

Cod. tubo/pipe 30 x 30: **AC64EXR**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC64EXSUR**

Cod. tubo/pipe 30 x 60: **AC94EXSUR**



## Cerniera / Hinge

### EXTRA & EXTRA SUPER



4 posizioni rovescio 90° / 4 positions reverse 90°

90° 75° 60° 45° Sgancio / Release

#### Extra

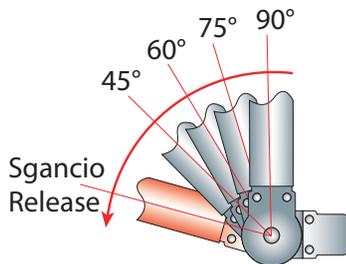
Cod. tubo/pipe 30 x 20: **AC54EXR90**

Cod. tubo/pipe 30 x 30: **AC64EXR90**

#### Extra Super

Cod. tubo/pipe 30 x 30: **AC64EXSUR90**

Cod. tubo/pipe 30 x 60: **AC94EXSUR90**



5 posizioni dritto / 5 positions straight

0° 15° 30° 45° 60° Sgancio / Release

#### Extra

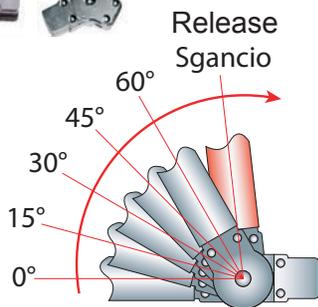
Cod. tubo/pipe 30 x 20: **AC55EX**

Cod. tubo/pipe 30 x 30: **AC65EX**

#### Extra Super

Cod. tubo/pipe 30 x 30: **AC65EXSU**

Cod. tubo/pipe 30 x 60: **AC95EXSU**



5 posizioni rovescio / 5 positions reverse

60° 45° 30° 15° 0° Sgancio / Release

#### Extra

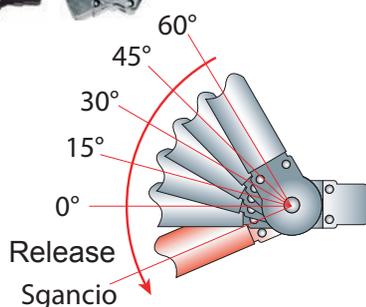
Cod. tubo/pipe 30 x 20: **AC55EXR**

Cod. tubo/pipe 30 x 30: **AC65EXR**

#### Extra Super

Cod. tubo/pipe 30 x 30: **AC65EXSUR**

Cod. tubo/pipe 30 x 60: **AC95EXSUR**



5 posizioni rovescio 90° / 5 positions reverse 90°

90° 75° 60° 45° 30° Sgancio / Release

#### Extra

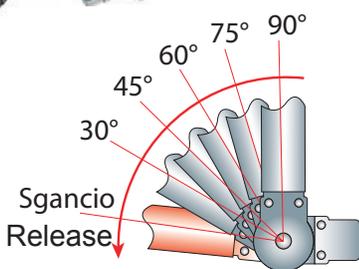
Cod. tubo/pipe 30 x 20: **AC55EXR90**

Cod. tubo/pipe 30 x 30: **AC65EXR90**

#### Extra Super

Cod. tubo/pipe 30 x 30: **AC65EXSUR90**

Cod. tubo/pipe 30 x 60: **AC95EXSUR90**



6 posizioni dritto / 6 positions straight

0° 15° 30° 45° 60° 75° Sgancio / Release

#### Extra

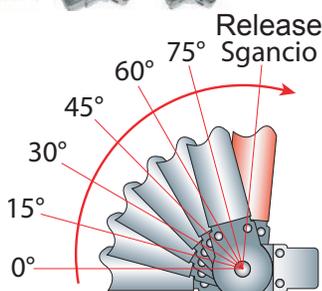
Cod. tubo/pipe 30 x 20: **AC56EX**

Cod. tubo/pipe 30 x 30: **AC66EX**

#### Extra Super

Cod. tubo/pipe 30 x 30: **AC66EXSU**

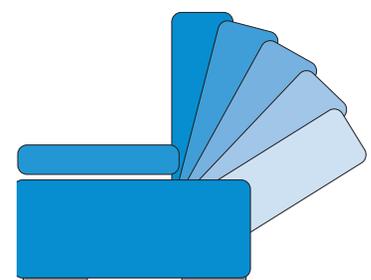
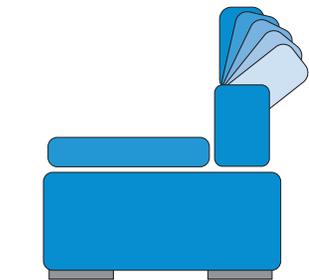
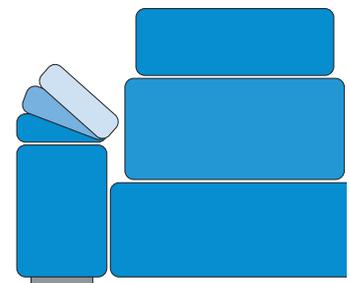
Cod. tubo/pipe 30 x 60: **AC96EXSU**



Questi prodotti sono utilizzabili per  
BRACCIOLI, POGGIATESTA  
e SCHIENALI

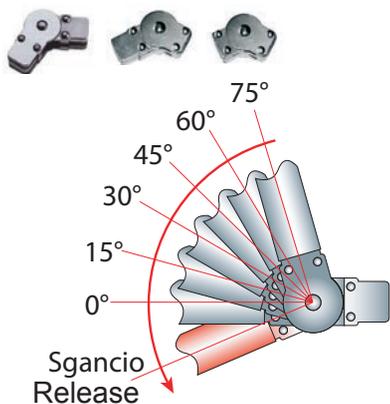
*These products can be used for  
ARMRESTS, HEADRESTS and  
BACKRESTS*

Esempi di applicazione  
Example of use



Cerniera / Hinge

**EXTRA & EXTRA SUPER**



6 posizioni rovescio / 6 positions reverse  
75° 60° 45° 30° 15° 0° **Sgancio / Release**

**Extra**

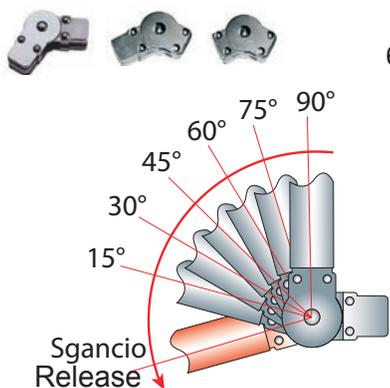
Cod. tubo/pipe 30 x 20: **AC56EXR**

Cod. tubo/pipe 30 x 30: **AC66EXR**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC66EXSUR**

Cod. tubo/pipe 30 x 60: **AC96EXSUR**



6 posizioni rovescio 90° / 6 positions reverse 90°  
90° 75° 60° 45° 30° 15° **Sgancio / Release**

**Extra**

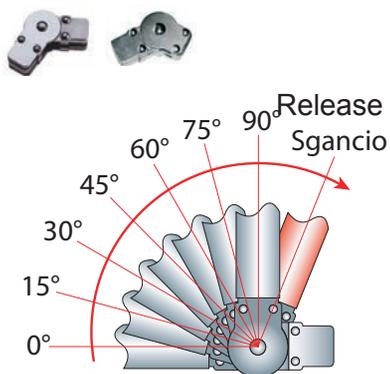
Cod. tubo/pipe 30 x 20: **AC56EXR90**

Cod. tubo/pipe 30 x 30: **AC66EXR90**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC66EXSUR90**

Cod. tubo/pipe 30 x 60: **AC96EXSUR90**



7 posizioni dritto / 7 positions straight  
0° 15° 30° 45° 60° 75° 90° **Sgancio / Release**

**Extra**

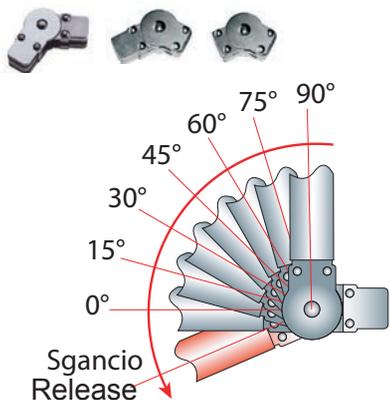
Cod. tubo/pipe 30 x 20: **AC57EX**

Cod. tubo/pipe 30 x 30: **AC67EX**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC67EXSU**

Cod. tubo/pipe 30 x 60: **AC97EXSU**



7 posizioni rovescio / 7 positions reverse  
90° 75° 60° 45° 30° 15° 0° **Sgancio / Release**

**Extra**

Cod. tubo/pipe 30 x 20: **AC57EXR**

Cod. tubo/pipe 30 x 30: **AC67EXR**

**Extra Super**

Cod. tubo/pipe 30 x 30: **AC67EXSUR**

Cod. tubo/pipe 30 x 60: **AC97EXSUR**

Questi prodotti sono utilizzabili per  
BRACCIOLI, POGGIATESTA  
e SCHIENALI

*These products can be used for  
ARMRESTS, HEADRESTS and  
BACKRESTS*

Esempi di applicazione  
Example of use

