

Adjustable Evolution 3D



 **OTLAV**
dal 1956

Since **1956**, thanks to our hinges, more than **1,000,000,000**
doors are opening **in 80 countries** all over the world.



COMPANY

QUALITY

OTLAV S.p.A produces and sells hinges for doors and windows and other accessories for frames.

Founded in 1956 by entrepreneur Angelo Padovan, Otlav has produced **more than 2,2 billion of hinges**.

Thanks to almost 100 filed patents, Otlav ensures high quality standards and is present with its wide range of products in more than **80 countries worldwide**. OTLAV new factory was inaugurated in 2007, in Via Angelo Padovan 2 in Santa Lucia di Piave (TV), in an area of 45,000 square meters, 19,500 of which are covered.

Following the opening of the first office in March 1956, OTLAV has nowadays found its perfect location to face the challenges of the new millennium. "OAMH" "Otlav Automatic Material Handling" is a project developed after five years of research and studies all around the world; a technological jewel created by designing at first the best logistical location, and then a subsequent lay out, and eventually the container to cover these structures: an unmistakable technological masterpiece, which is 20 meters high.

Rationalization of space, optimization of logistics and integrated use of automation: all of these account for respectively the flow or transportation of materials and the streaming of information. The goal is to cut costs by making the produced hinges increasingly competitive with an unparalleled level of quality.

As required by European regulations and by Regulation (EU) No. 305/2011 all OTLAV hinges are subjected to stringent resistance tests to check performance both during the design phase and regularly during manufacturing. The I.U.S. (Intensive Use Simulator) is the testing system used in the OTLAV Test Laboratories.

EC Certificates and Performance Declarations

Tests on the hinges are also carried out at external bodies able to certify that the company manufactures according to rigid, systematically monitored production plans and that the products pass the tests envisaged by the standard UNI EN 1935/2004: they are thereby able to issue, if needed, the CE certificate or certify the data provided by OTLAV in the "performance declarations".



OTLAV group companies



In 1990 Otlav creates Myrtus in Maniago (PN), Friuli. The company is specialized in galvanic treatments.

Founded 2002 in Romania is focused on some high-tech producing processes.



View of the OTLAV test laboratories I.U.S. (Intensive Use Simulator)

495 EXACTA



495 Exacta

DIAMETER and HEIGHT
 Ø13 x 70
 Ø14 x 79,5
 Ø16 x 80
 Ø20 x 107,5

FEMALE PIN
 Ø13: 7,8 x 2 a.f. x 38
 Ø14: 7,8 x 2 a.f. x 38
 Ø14: 7,8 x 2 a.f. x 45
 Ø14: 7,8 x 2 a.f. x 57
 Ø16: 7,8 x 2 a.f. x 45
 Ø16: 7,8 x 2 a.f. x 57
 Ø20: 9,5 x 2 a.f. x 55

MALE PIN
 Ø13: 7,8 x 2 a.f. x 38
 Ø14: 7,8 x 2 a.f. x 38
 Ø14: 7,8 x 2 a.f. x 45
 Ø14: 7,8 x 2 a.f. x 57
 Ø16: 7,8 x 2 a.f. x 45
 Ø16: 7,8 x 2 a.f. x 57
 Ø16: M8 X 20
 Ø20: 9,5 x 2 a.f. x 45
 Ø20: 9,5 x 2 a.f. x 55

FLUSH MOUNTING TOOL
 MA 700 130 G0 12
 MA 700 160 G0 06
 MA 700 200 G0 10

OVERLAY MOUNTING TOOL
 MA 701 130 G0 24
 MA 701 160 G0 35
 MA 701 200 G0 14

DRILL BIT FOR MAKING HOLES
Hard wood
 Ø 7,0 for EXACTA Ø 13 - 14 - 16
 Ø 8,5 for EXACTA Ø 20
Soft wood
 Ø 6,8 for EXACTA Ø 13 - 14 - 16
 Ø 8,3 for EXACTA Ø 20



CAPACITY*
 Ø13: 80 kg
 Ø14: 80 Kg
 Ø16: 100 Kg
 Ø20: 120 Kg



Ø13: +2,5 mm
 Ø14: +3,0 mm
 Ø16: +5,0 mm
 Ø20: +5,0 mm



ADJUSTMENTS

- Height
- Side
- Depth

EXACTA has been created to combine the perfection of three-dimensional adjustment of windows and doors with an easy and above all reliable system which ensures a significant saving in time and money, since mounting the hinge requires only one person.

EXACTA is available in diameter 13, 14, 16 and 20 mm. The 16 and 20 millimeter diameters are available also in stainless steel. A wide range of brass, steel and ABS caps means that doors and windows can now be given a personal touch of style.

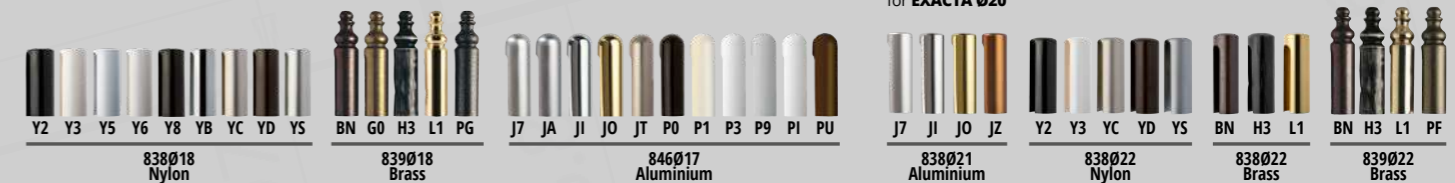
CAPS for EXACTA Ø13



CAPS for EXACTA Ø14



CAPS for EXACTA Ø16



* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

495 URSUS

5 pins



495 Ursus

5 pins

DIAMETER and HEIGHT
 Ø 16 x 102
 Ø 18 x 139

FEMALE PIN
 Ø 16: 7,8 x 2 a.f. x 57
 Ø 18: 9,5 x 2 a.f. x 55

MALE PIN
 Ø 16: 7,8 x 2 a.f. x 57
 Ø 18: 9,5 x 2 a.f. x 55

OVERLAY MOUNTING TOOL
 Ø 16: MC 701 160 G0 67
 Ø 18: MA 701 180 G0 08

DRILL BIT FOR MAKING HOLES
Hard wood
 Ø 7,0 for URSUS Ø 16
 Ø 8,5 for URSUS Ø 18

Soft wood
 Ø 6,8 for URSUS Ø 16
 Ø 8,3 for URSUS Ø 18



With 5 pins, this hinge guarantees high stability and carrying capacity **for particularly heavy, and very large doors**, as well as perfect alignment of the hinge. Vertical, horizontal and depth adjustments can be made. The 3 pins male part is interchangeable with several versions of Exacta hinge. Available in the following diameters: 16 and 18 millimeters.

CAPACITY*
 Ø16: 120 Kg
 Ø18: 160 Kg

Ø16: + 5,0 mm
 Ø18: + 4,5 mm



ADJUSTMENTS
 ● Height
 ● Side
 ● Depth

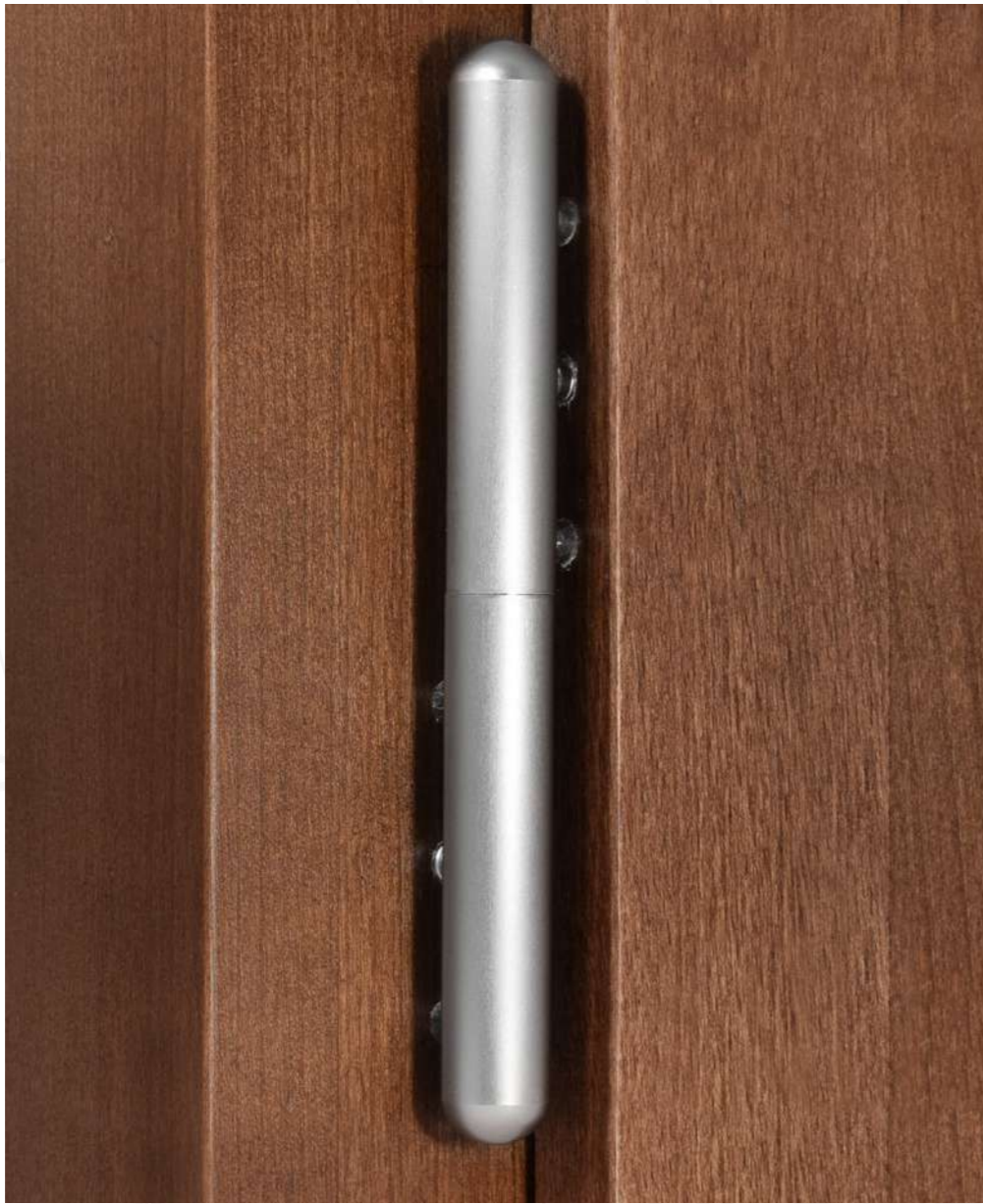


* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.



495 URSUS

6 pins



495 Ursus

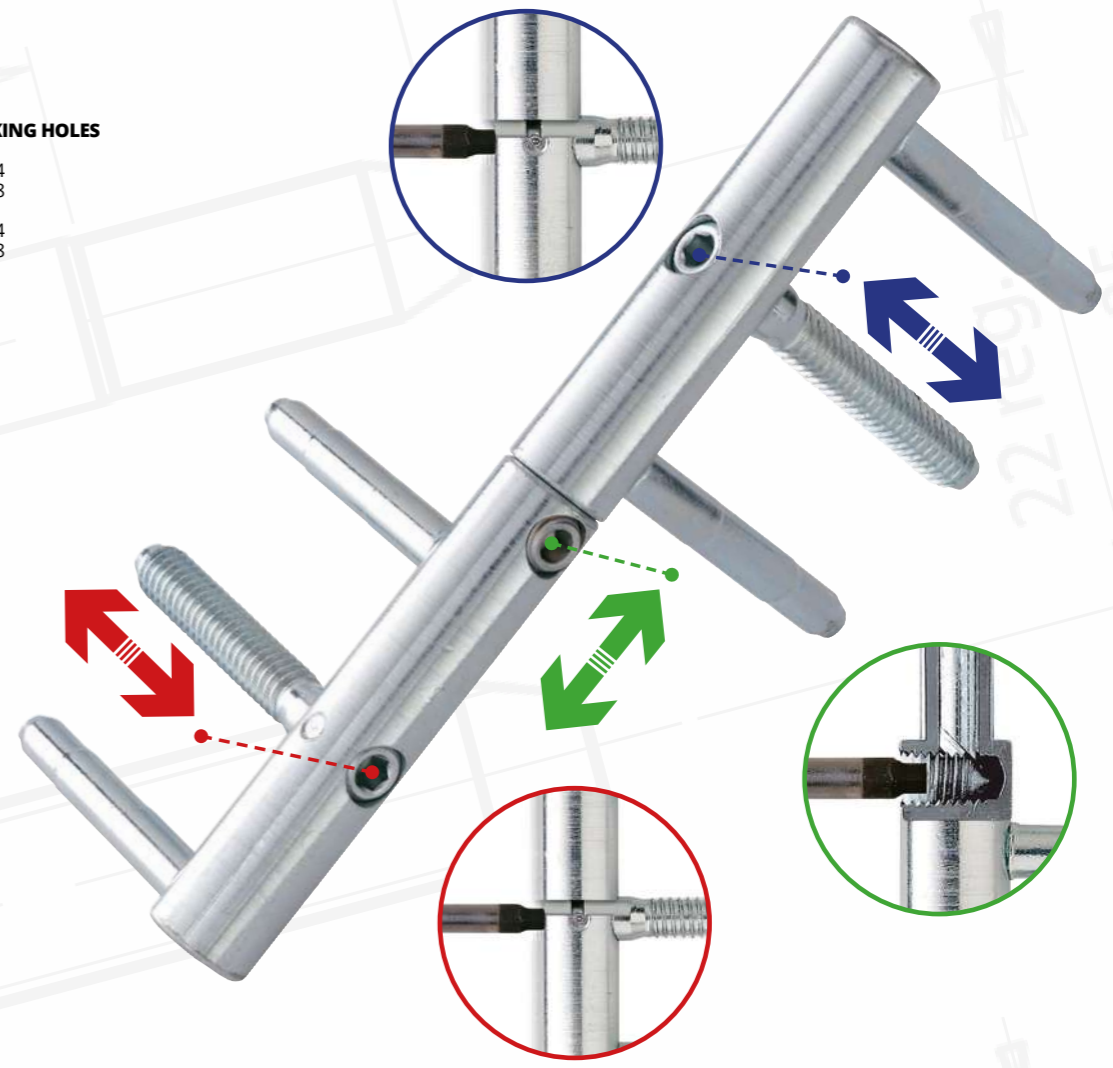
6 pins

DIAMETER and HEIGHT
 Ø 14 x 128
 Ø 18 x 171

FEMALE PIN
 Ø 14: 7,8 x 2 a.f. x 38
 Ø 14: 7,8 x 2 a.f. x 57
 Ø 18: 7,8 x 2 a.f. x 45

MALE PIN
 Ø 14: 7,8 x 2 a.f. x 38
 Ø 18: 9,5 x 2 a.f. x 55

DRILL BIT FOR MAKING HOLES
Hard wood
 Ø 7,0 for URSUS Ø 14
 Ø 8,5 for URSUS Ø 18
Soft wood
 Ø 6,8 for URSUS Ø 14
 Ø 8,3 for URSUS Ø 18



With its 6 pins, it enlarges in a staggering way the stability and carrying capacity; for particularly heavy doors and very big shutters. The result is a perfect alignment of the hinge. It allows height, side and depth adjustment. Available in diameters: 14 and 18 mm.

CAPACITY*
 Ø14: 80 Kg
 Ø18: 160 Kg

Ø14: + 3,0 mm
 Ø18: + 4,5 mm



CE

ADJUSTMENTS
 ● Height
 ● Side
 ● Depth

CAPS for URSUS Ø14



CAPS for URSUS Ø18






* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

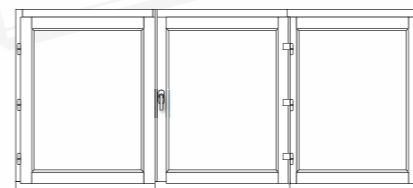
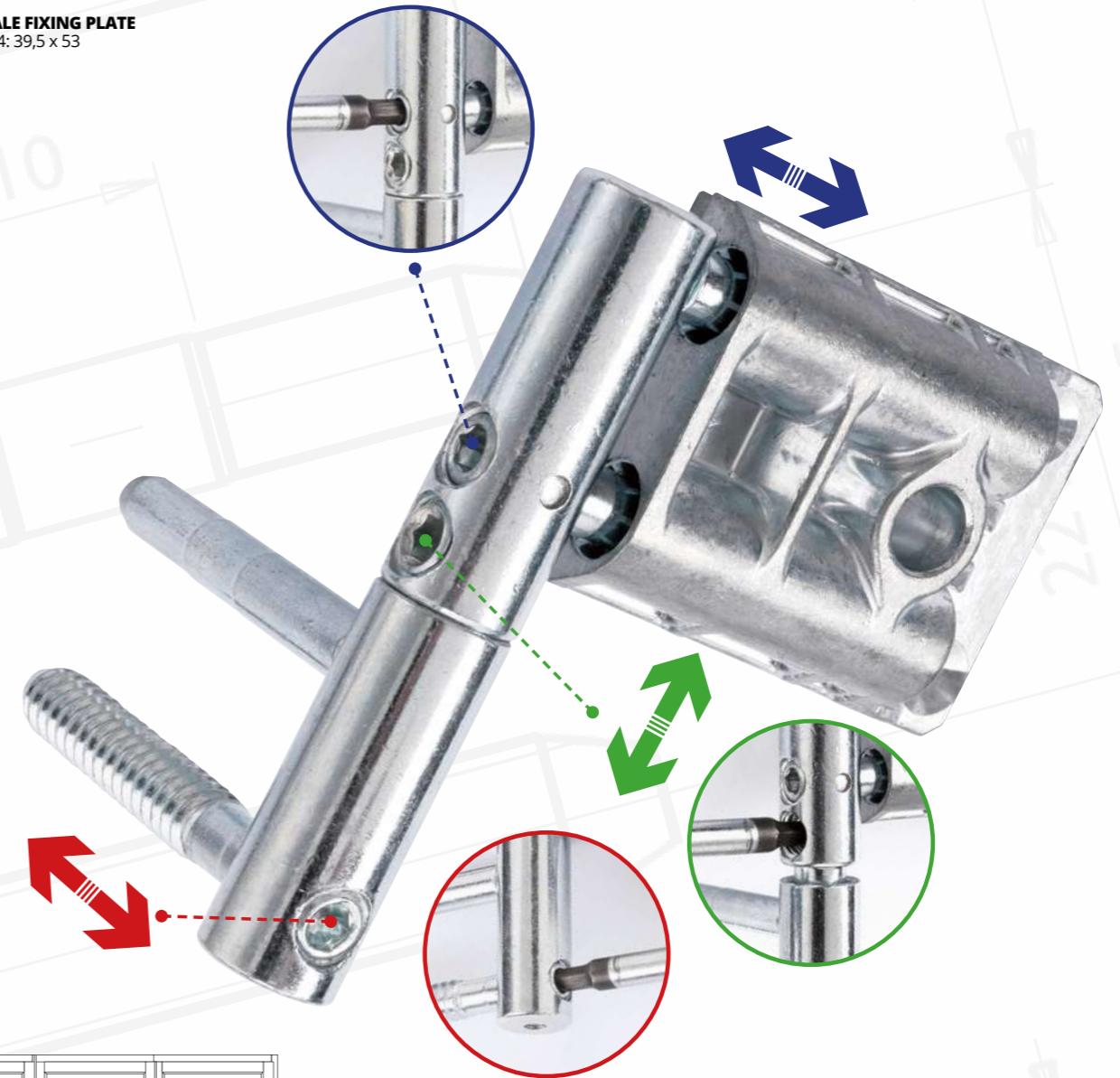


495 TRIANT




-  **DIAMETER and HEIGHT**
Ø14 x 79,5
-  **FEMALE PIN**
Ø14: 7,8 x 2 a.f. x 45
-  **MALE FIXING PLATE**
Ø14: 39,5 x 53

495 Exacta Triant



 **CAPACITY***
Ø14: 80 Kg

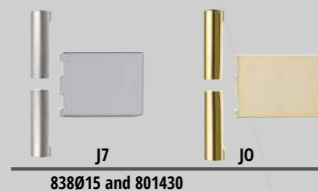
 Ø14: + 3,0 mm

ADJUSTMENTS

-  Height
-  Side
-  Depth

EXACTA TRIANT has been specifically designed **to be mounted on the third leaf of a door or window and on heavy flush doors and windows.** The design is very linear but at the same time refined and elegant, and its use enhances the prestige of the doors and windows. Triant offers an easy and reliable three dimensional adjustable system. Available in the following diameter: 14 millimeters.

CAPS



* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

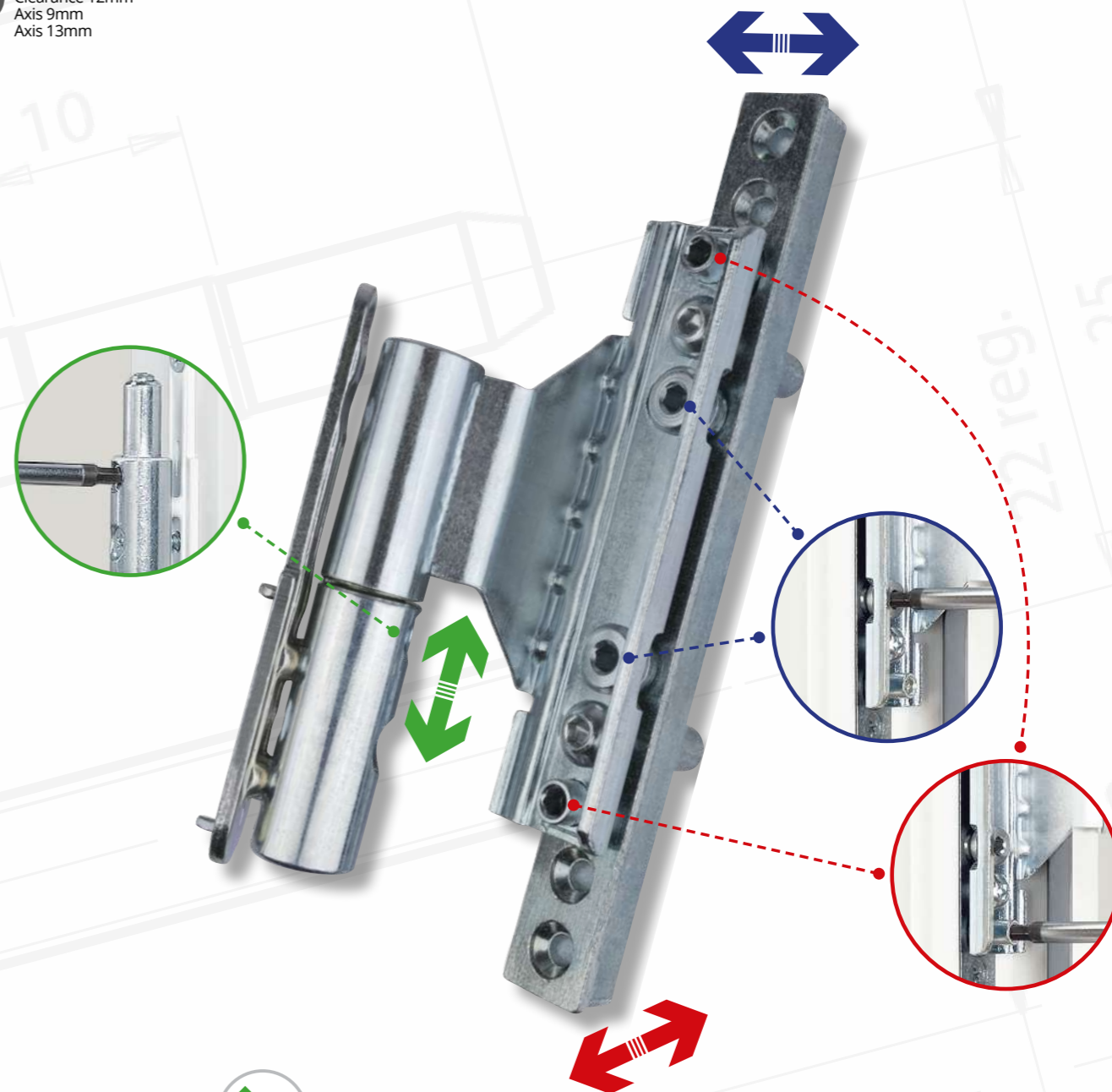
483 BIXACTA^{Wood}



483 Bixacta Wood

DIAMETER and HEIGHT
 Ø 16 x 79,5

MALE PLATE
 Clearance 12mm
 Axis 9mm
 Axis 13mm



CAPACITY*
 Ø16: 80 Kg

 Ø16: + 3,0 mm

CE

ADJUSTMENTS

- Height
- Side
- Depth

Bixacta arose from the need to have an adjustable hinge for entrance doors in PVC, wood and aluminum, which takes into account the aesthetic impact on the frame. Adjustable in 3 directions, the part fixed to the door is inserted into the euro groove axis 13 or 9 mm, air 12, the male part is interchangeable with the male Ursus or Exacta Ø16. Available in the following diameter: 16 millimeters.

CAPS



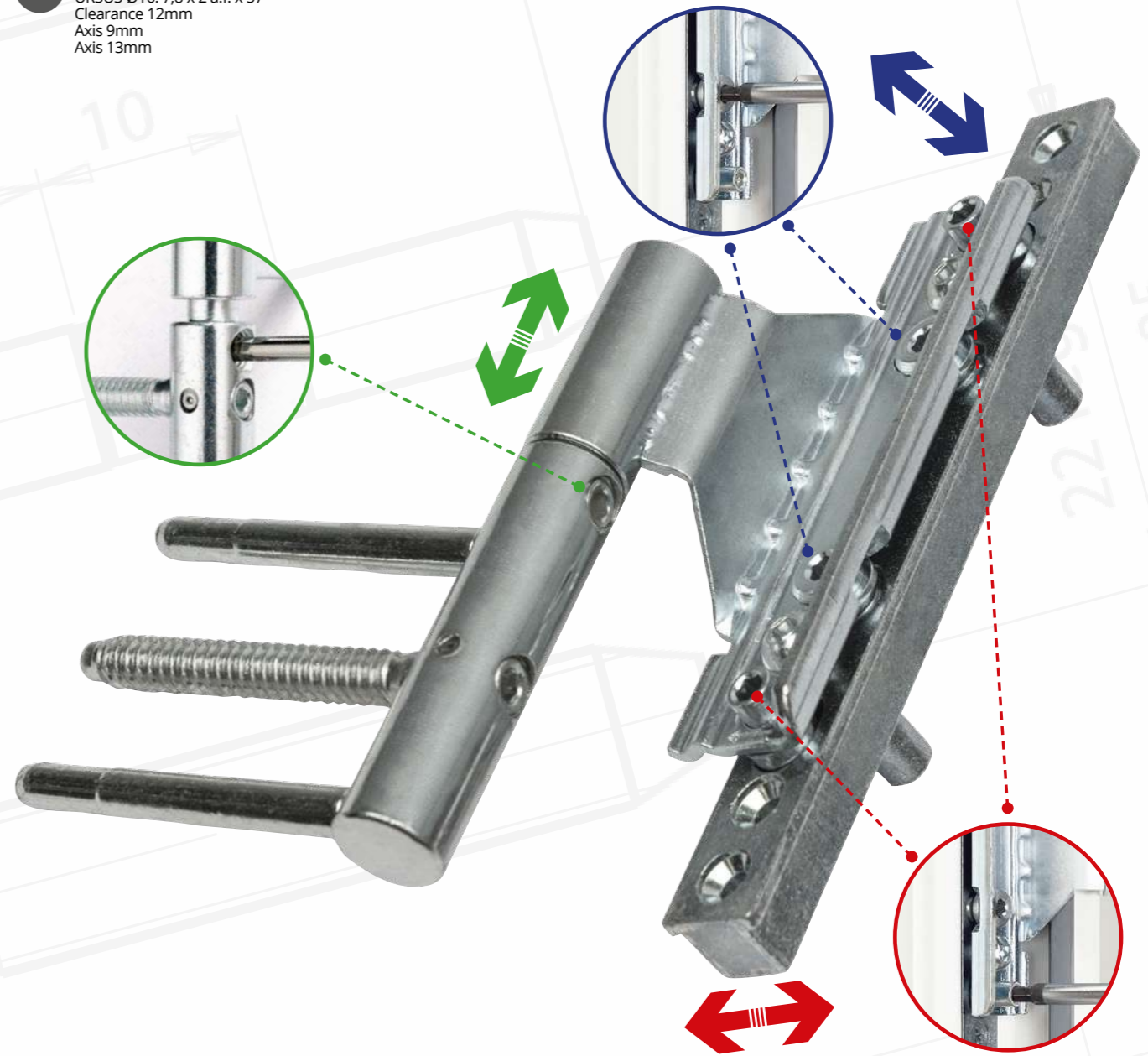
* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

483 MIXACTA

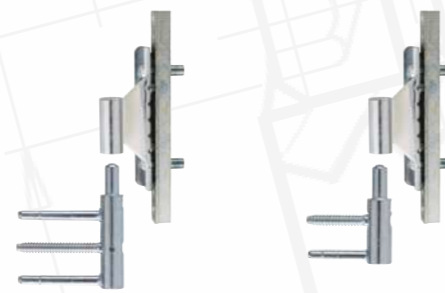


483 Mixacta

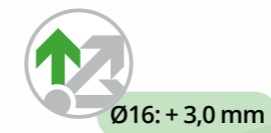
- Ø** **DIAMETER**
Ø 16
- M** **MALE PIN**
EXACTA Ø16: 7,8 x 2 a.f. x 45
URSUS Ø16: 7,8 x 2 a.f. x 57
Clearance 12mm
Axis 9mm
Axis 13mm



Mixacta 483 is the result of the combination of a male Exacta Ø16 or Ursus Ø16 with a female Bixacta. **CE certified hinge, the door part is suitable to be fitted in the European groove axis 13 mm or axis 9 mm with 12 mm clearance.** Discreet, elegant hinge distinguished by ease of installation and three-dimensional adjustment with the door fitted.



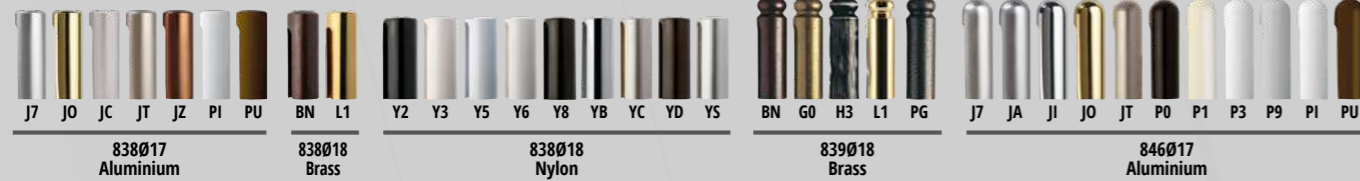
CAPACITY*
Ø16: 80 Kg



ADJUSTMENTS

- Height
- Side
- Depth

CAPS for BIXACTA/EXACTA Ø16



CAPS for BIXACTA/URSUS Ø16









* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

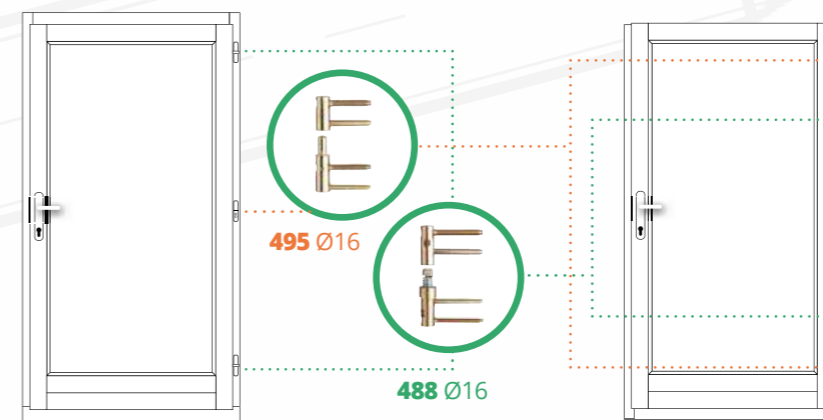
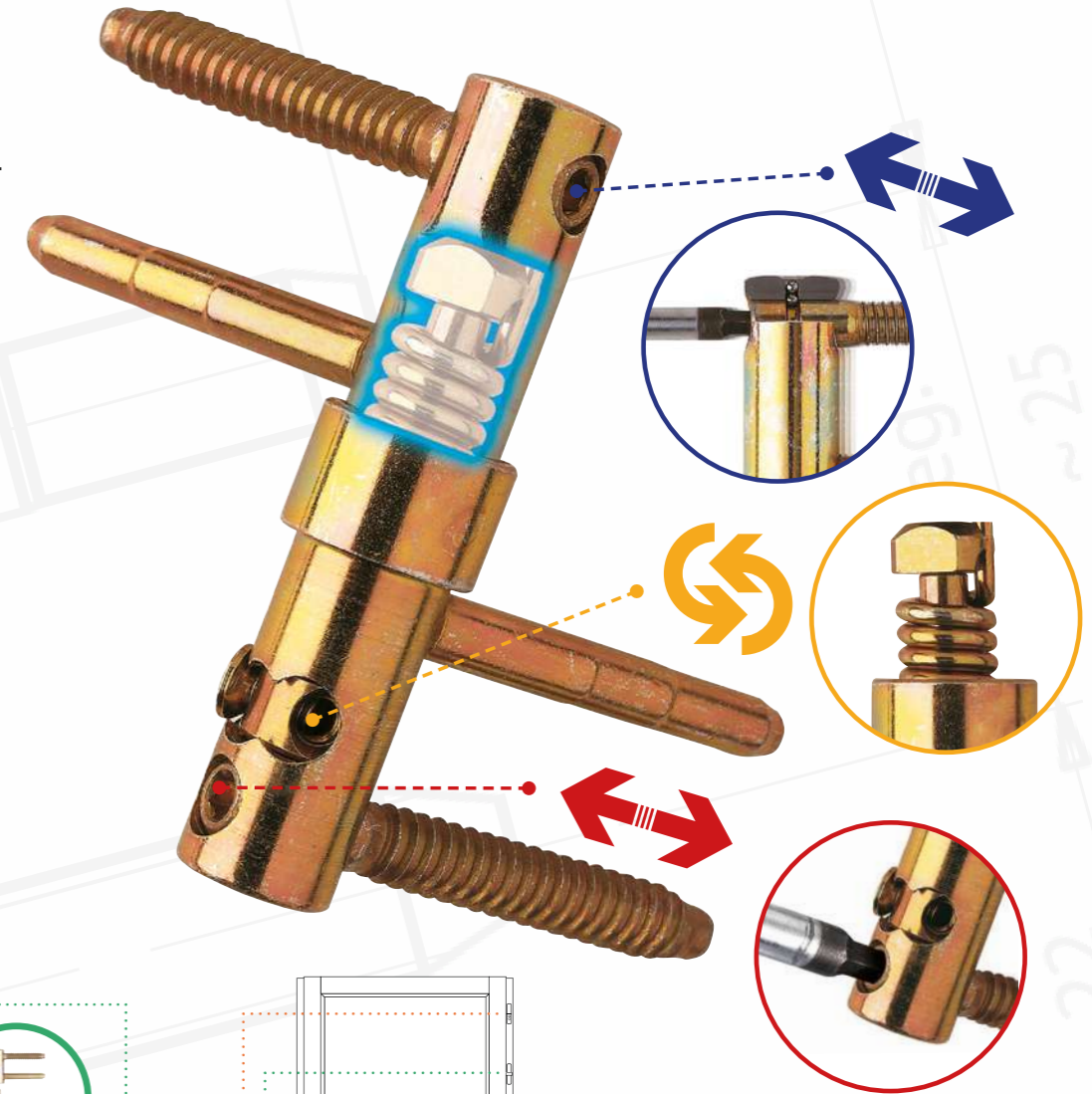


488 SELF-CLOSING



488 Self-closing

-  **DIAMETER and HEIGHT**
Ø16 x 82
-  **FEMALE PIN**
Ø16: 7,8 x 2 a.f. x 57
-  **MALE PIN**
Ø16: 7,8 x 2 a.f. x 57
-  **FLUSH MOUNTING TOOL**
MA 700 160 G0 06
-  **OVERLAY MOUNTING TOOL**
MA 701 160 G0 35
-  **DRILL BIT FOR MAKING HOLES**
Hard wood Ø 7,0
Soft wood Ø 6,8



ADJUSTMENTS

- Side
- Depth
- Force of closing

Developed to combine perfectly with the technology of the Exacta hinge, this hinge ensures that the **door on which it is mounted closes automatically**. The force of the closure can be easily adjusted and it is a particularly advantageous solution for large scale applications. Available in the following diameter: 16 millimeters.

For doors weighing up to 40 Kg, the fitting of a traditional EXACTA hinge in the middle and two 488 SELF-CLOSING hinges at the ends of the door is recommended; whereas for doors weighing between 40 and 60 Kg, it is advisable to fit two traditional EXACTA hinges at the ends of the door and two 488 SELF-CLOSING hinges in the middle.

CAPS








* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

499 ALMAX



499 Almax

-  **DIAMETER and HEIGHT**
Ø16 x 97
-  **FEMALE PIN**
Ø16: 7,8 x 2 a.f. x 45
-  **MALE PIN**
Ø16: 7,8 x 2 a.f. x 45
-  **OVERLAY MOUNTING TOOL**
MA 701 160 G0 33
-  **DRILL BIT FOR MAKING HOLES**
Hard wood Ø 7,0
Soft wood Ø 6,8



This high quality hinge, as well as being adjustable in three directions, also has a lifting action: **whilst the door is being opened, it lifts up by 5 mm.** It is therefore particularly suitable for wide and heavy doors and old uneven floors or for going over carpets and rugs, fully demonstrating its qualities of efficiency and precision. Available in the following diameter: 16 millimeters.

 **CAPACITY***
Ø16: 60 Kg

 **Ø16: + 5,0 mm**

ADJUSTMENTS
● Height
● Side
● Depth

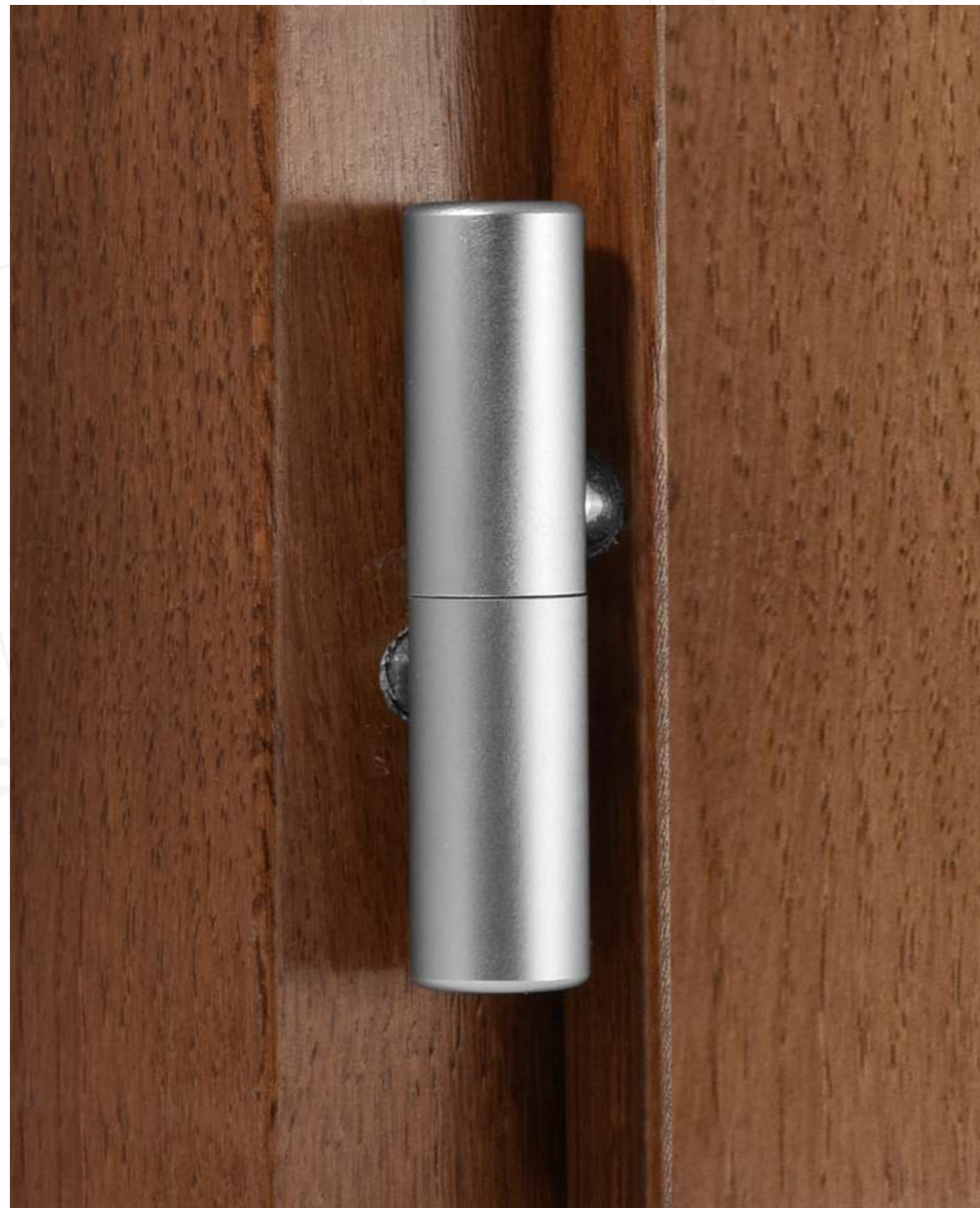
CAPS

L1
898018
Brass



* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

057



057

DIAMETER and HEIGHT
 Ø 13 x 52,5
 Ø 14 x 54
 Ø 16 x 56

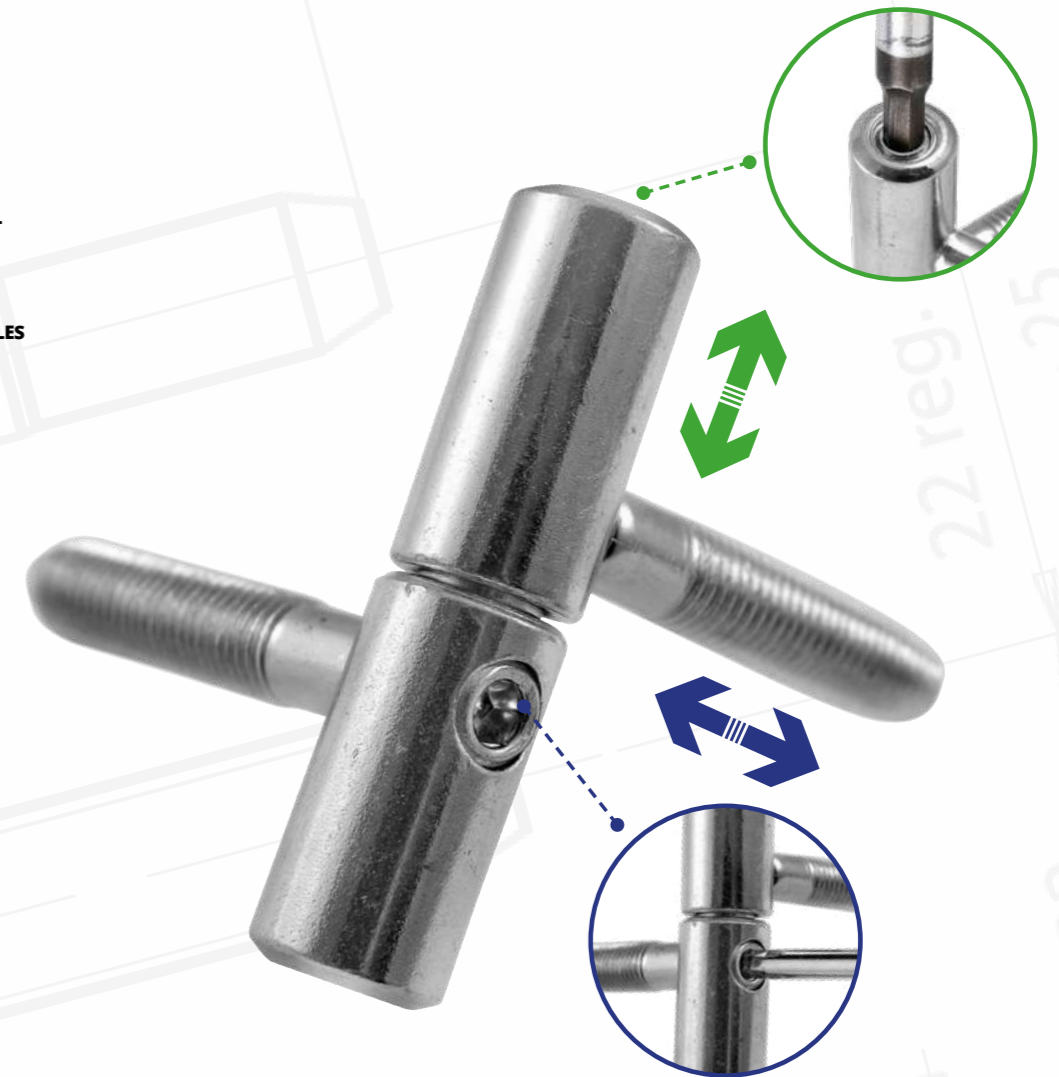
FEMALE PIN
 Ø 13: 7,5 x 1,2 d.s. x 38
 Ø 14: 8,1 x 1,2 d.s. x 40
 Ø 16: 8,6 x 1,2 d.s. x 47

MALE PIN
 Ø 13: 7,5 x 1,2 d.s. x 39
 Ø 14: 8,1 x 1,2 d.s. x 40
 Ø 16: 8,6 x 1,2 d.s. x 47

FLUSH MOUNTING TOOL
 Ø13 MA 700 130 G0 04
 Ø14 MA 700 140 G0 02

OVERLAY MOUNTING TOOL
 Ø13 MA 701 130 G0 18
 Ø14 MA 701 140 G0 11
 Ø16 MA 701 160 G0 11

DRILL BIT FOR MAKING HOLES
 Hard wood
 Ø 5,3/6,7 x Ø 13
 Ø 5,8/7,2 x Ø 14
 Ø 6,3/7,7 x Ø 16



The "little one" of the Otlav hinges family is **adjustable in 2 dimensions**, vertically and horizontally, and provides significant advantages during assembly, ensuring a large saving in time since it takes only one person to mount. Otlav efficiency and reliability are always guaranteed.
 Available in the following diameter: 13, 14, 16 millimeters.

CAPACITY*
 Ø13: 40 Kg
 Ø14: 60 Kg
 Ø16: 60 Kg with intensive use

ADJUSTMENTS
 ● Height
 ● Side

Ø13: + 5,0 mm
 Ø14: + 5,0 mm
 Ø16: + 5,0 mm

CAPS for Ø13



CAPS for Ø14

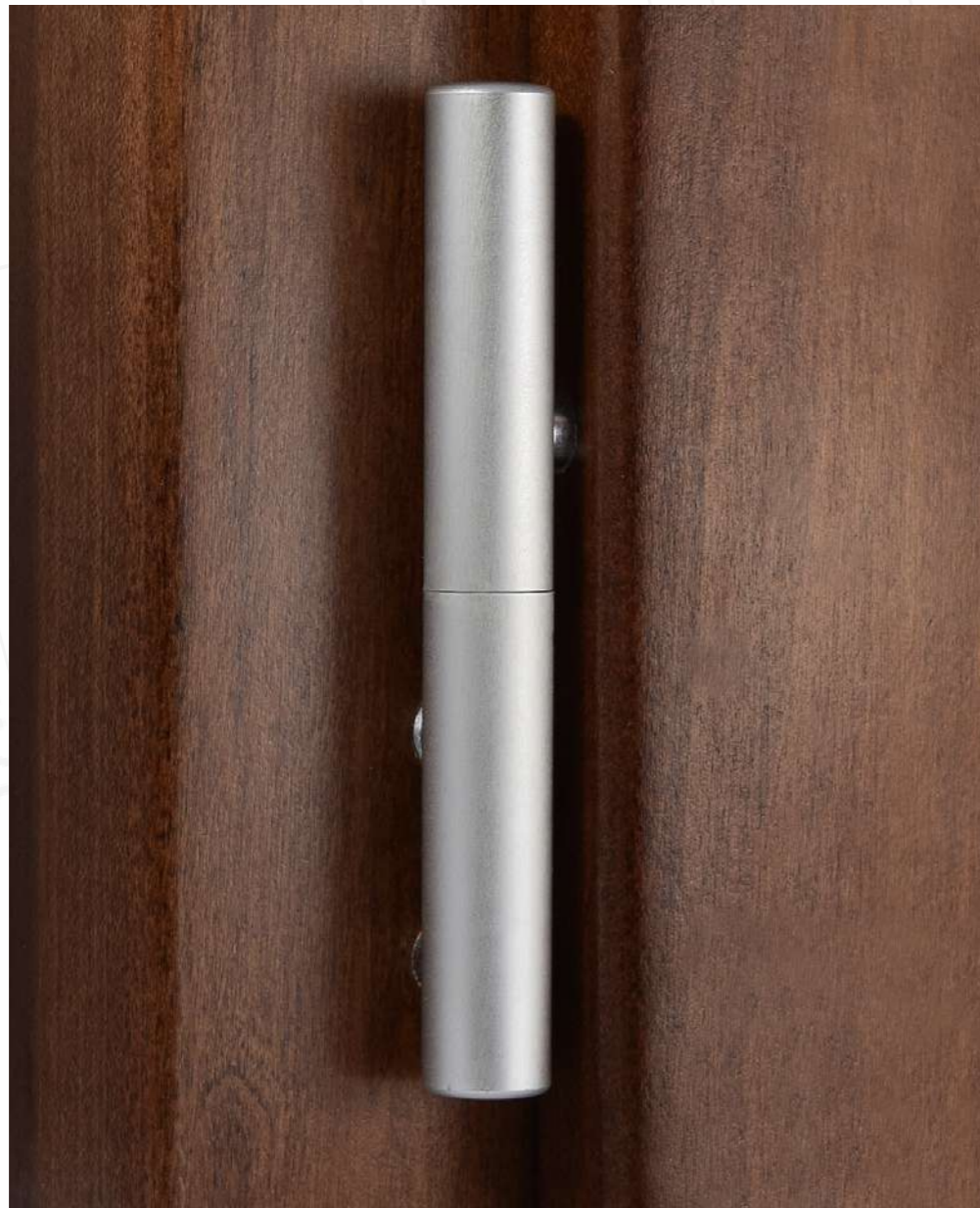


CAPS for Ø16






* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

491 EXACTA



491 Exacta

-  **DIAMETER and HEIGHT**
Ø 14 x 79,5
-  **FEMALE PIN**
Ø 14: 7,75 x 1,2 d.s. x 45
-  **MALE PIN**
Ø 14: 7,8 x 2 a.f. x 38
Ø 14: M8 x 45



The 491 Exacta is adjustable in 2 dimensions and is an intermediate solution of a 3 pins hinge with 2 adjustments. It maintains the qualities of reliability and precision which set the Otlav products apart. Available in the following diameter: 14 mm.

 **CAPACITY***
Ø14: 60 Kg

 **Ø14: + 3,0 mm**

ADJUSTMENTS
● Height
● Side

CAPS



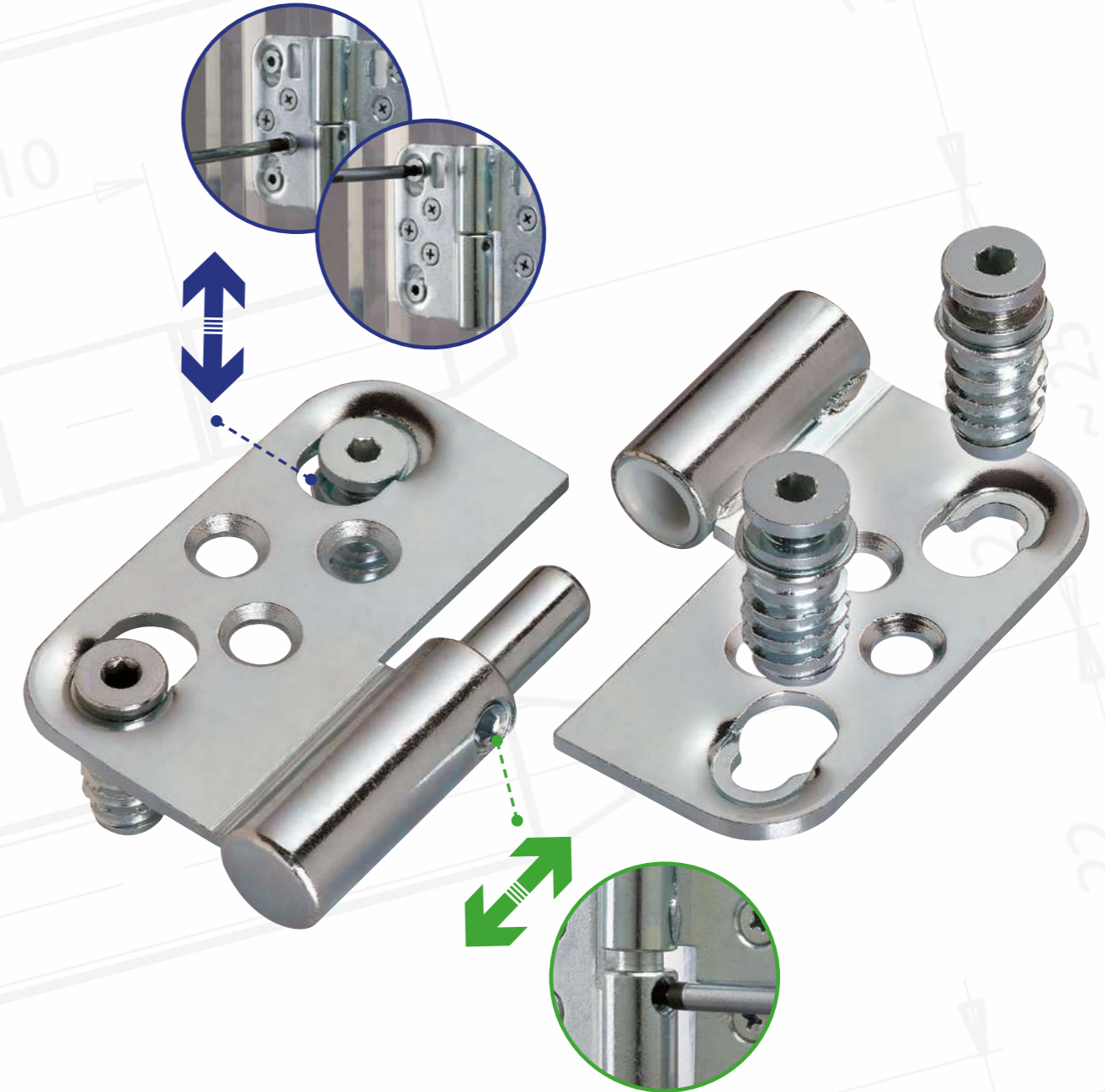
* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

484 NORDEX



484 Nordex

DIAMETER and HEIGHT
Ø16 x 82



Nordex is a very popular hinge in Northern European countries; it is characterized by its reliability and the ease with which it is possible to adjust the leaf of a flush door or window, following a simple sequence on mounting. In addition, the effectiveness of the carrying capacity is guaranteed by the huge amount of fixing points in each plate.

CAPACITY*
Ø16: 60 Kg

ADJUSTMENTS
Ø16: + 5,0 mm

ADJUSTMENTS
● Height
● Side

CAPS






* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

485 POMELLAS




485 Pomellas

-  **DIAMETER and HEIGHT**
Ø 14 x 79,5
-  **FEMALE PLATE**
16 x 75
-  **MALE PLATE**
16 x 75



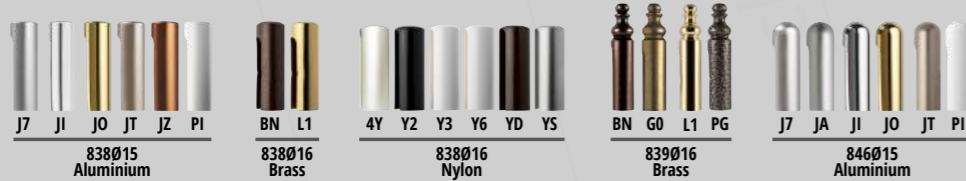
Hinge designed for flush doors and windows, it grants carrying capacity and reliability. Adjustable in height even with mounted leaf. Available in the following diameter: 14 mm.

 **CAPACITY***
Ø14: 60 Kg

 **Ø14: + 3,0 mm**

ADJUSTMENTS
● Height

CAPS



* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

POSSIBLE COMBINATIONS



MALE
URSUS Ø16



URSUS Ø16
3D adjustable hinge with 5 pins



MIXACTA 483
3D adjustable hinge for profiles with European groove with 13 mm axis



MIXACTA 483
3D adjustable hinge for profiles with European groove with 9 mm axis



MALE
EXACTA Ø16



EXACTA Ø16
3D adjustable hinge with 4 pins



MIXACTA 483
3D adjustable hinge for profiles with European groove with 13 mm axis



MIXACTA 483
3D adjustable hinge for profiles with European groove with 9 mm axis



MALE
BIXACTA Ø16
PEGS Ø8x26



MIXACTA 482
2D adjustable hinge with plate



BIXACTA 483
3D adjustable hinge for profiles with European groove with 13 mm axis



BIXACTA 483
3D adjustable hinge for profiles with European groove with 9 mm axis



MALE
BIXACTA Ø16
PEGS Ø5x26



MIXACTA 482
2D adjustable hinge with plate



BIXACTA 483
3D adjustable hinge for profiles with European groove with 13 mm axis



BIXACTA 483
3D adjustable hinge for profiles with European groove with 9 mm axis



MALE
BIXACTA Ø16



MIXACTA 482
2D adjustable hinge with plate



BIXACTA 483
3D adjustable hinge for profiles with European groove with 13 mm axis



BIXACTA 483
3D adjustable hinge for profiles with European groove with 9 mm axis

MALE

FEMALE



FEMALE
EXACTA Ø16



FEMALE
BIXACTA Ø16
AXIS 13 mm



FEMALE
BIXACTA Ø16
AXIS 9 mm



dal 1956

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