

3D

ADJUSTABLE SOLUTIONS FOR WOOD



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



COMPANY

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.

In 2021, due to the continuous increase in demand and the need to store large quantities of raw materials, a 2,200 m² warehouse was purchased next to the production site;

In 2023, the 6,000 m² expansion work on the east side was completed. In 2025, an additional 4,500 m² warehouse was purchased on the west side. The current area occupied by OTLAV plant is 73,000 m², of which 32,000 are covered. **In four years, Otlav production surface has increased by 66%.**

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.

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.



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".



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

495 EXACTA



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 mm 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



J0 JT P3

838Ø14
Aluminium

CAPS for EXACTA Ø14



J7 J0 JT JZ PI 9N

838Ø15
Aluminium



BN L1

838Ø16
Brass



Y2 Y3 Y6 YD YS

838Ø16
Nylon



BN L1 PG

839Ø16
Brass



J7 JA JT PI

846Ø15
Aluminium

CAPS for EXACTA Ø20



V8 VZ Y2 Y3 YC YD YS

838Ø22
Nylon



BN H3 L1

838Ø22
Brass



BN L1

839Ø22
Brass

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 38
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

MA701130G024 (EXACTA Ø13)
MA700160G006 (EXACTA Ø14-16)
MA700200G010 (EXACTA Ø20)

OVERLAY MOUNTING TOOL

MC701130G022 (EXACTA Ø13)
MA701160G035 (EXACTA Ø14-16)
MA701200G014 (EXACTA Ø20)

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



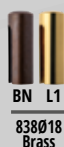
Ø13: + 2,5 mm
Ø14: + 3,0 mm
Ø16: + 5,0 mm
Ø20: + 5,0 mm



ADJUSTMENTS

● Height
● Side
● Depth

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.

476 URSUS 250

9 pins - Capacity 250 kg



Ursus 250 is a special hinge for massive **heavy duty doors** with particularly wide shutters. The hinge allows perfect alignment of the door, thanks to the three parts and nine pins, that maintain in time the original vertical order of the hinge.

The joint system, equipped with **bayonet pins**, allows the door leaf to be installed without lifting, ensuring quick and easy door installation.

Ursus 250 guarantees top quality and reliable performance, it has passed 200.000 cycles test for a capacity of **250 kg** and is adjustable on three axes.

The **special fitting system allows to conceal the pins**, the end caps are available in several finishes to provide versatile, elegant and modern design.

CAPS



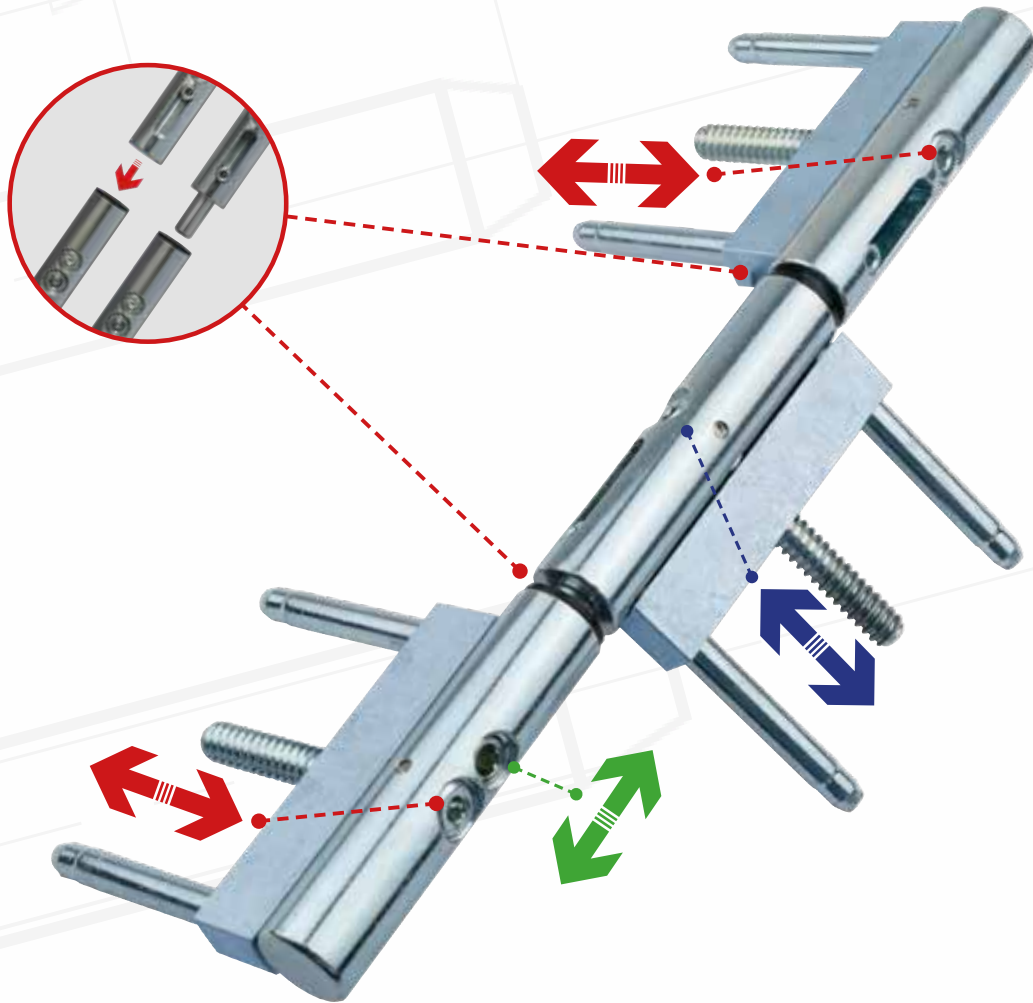
476Ø20 Nylon

476 Ursus 250

9 pins - Capacity 250 kg



DIAMETER and HEIGHT
Ø 18 x 248.5



Capacity*
250 Kg



+ 4,0 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.

475 URSUS-PLUS

9 Pins - Capacity 200 kg



Ursus-Plus is a special **hinge for massive heavy duty doors** with particularly wide shutters. Ursus-Plus allows perfect alignment of the door, thanks to the three parts and nine pins, that maintain in time the original vertical order of the hinge.

The joint system, equipped with **bayonet pins**, allows the door leaf to be installed without lifting, ensuring quick and easy door installation.

Ursus-Plus guarantees top quality and reliable performance, it has passed 200.000 cycles test for a **capacity of 200 kg**. Ursus-Plus is **adjustable on three axes**. The end caps are available in several finishes to provide versatile, elegant and modern design.

CAPS



4F 4N YS

476Ø20 Nylon

475 Ursus-Plus

9 pins - Capacity 200 kg



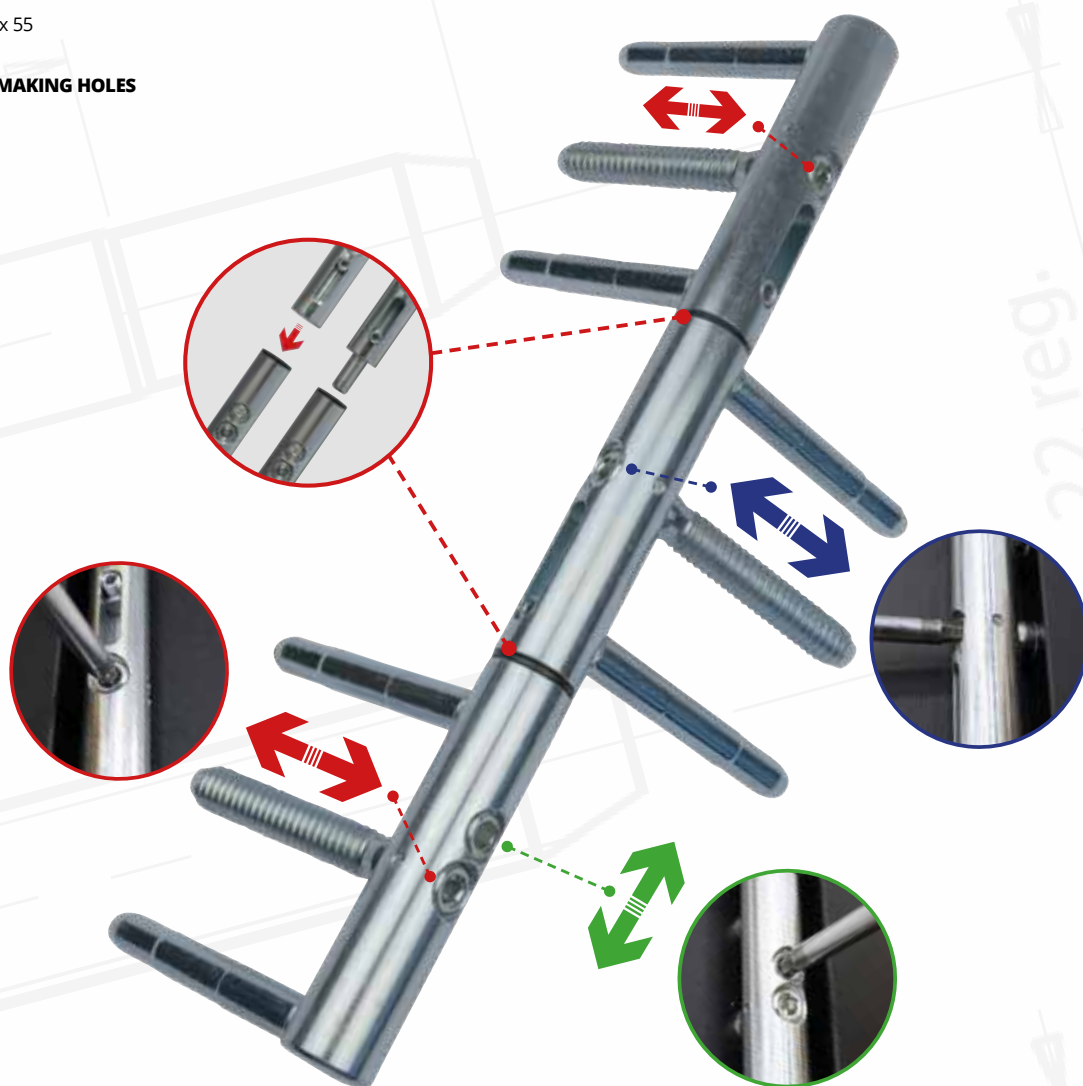
DIAMETER and HEIGHT
Ø 18 x 248.5



PINS
Ø 18: 9,5 x 2 a.f. x 55



DRILL BIT FOR MAKING HOLES
Hard wood
Ø 8,5
Soft wood
Ø 8,3



Capacity*
200 Kg



+ 4,0 mm

ADJUSTMENTS

- Height
- Side
- Depth

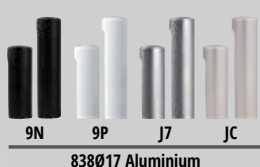
495 URSUS

5 pins



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 mm.

CAPS for URSUS Ø16



CAPS for URSUS Ø18



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 16: 7,8 x 2 a.f. x 45
 Ø 18: 9,5 x 2 a.f. x 55



MALE PIN
 Ø 16: 7,8 x 2 a.f. x 57
 Ø 16: 7,8 x 2 a.f. x 45
 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



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



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, 16 and 18 mm.

CAPS for URSUS Ø14



JT

838Ø15 Aluminium

CAPS for URSUS Ø16



9N

9P

J7

JC

838Ø17 Aluminium

CAPS for URSUS Ø18



J7

J0

838Ø19 Aluminium

495 Ursus

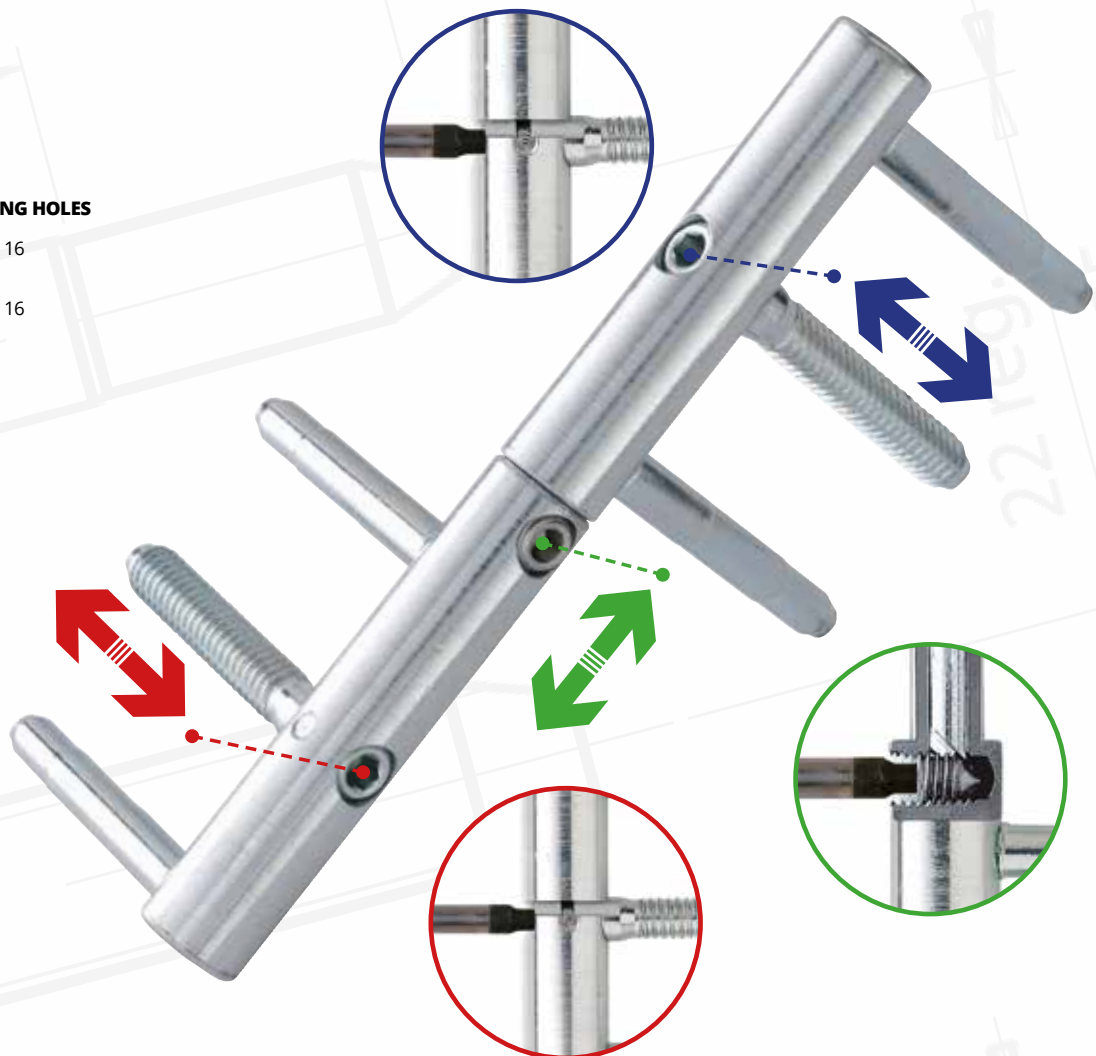
6 pins

DIAMETER and HEIGHT
 Ø 14 x 128
 Ø 16 x 124
 Ø 18 x 171

FEMALE PIN
 Ø 14: 7,8 x 2 a.f. x 57
 Ø 16: 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 16: 7,8 x 2 a.f. x 57
 Ø 18: 9,5 x 2 a.f. x 55

DRILL BIT FOR MAKING HOLES
Hard wood
 Ø 7,0 for URSUS Ø 14, 16
 Ø 8,5 for URSUS Ø 18
Soft wood
 Ø 6,8 for URSUS Ø 14, 16
 Ø 8,3 for URSUS Ø 18



CAPACITY*
 Ø14: 80 Kg
 Ø16: 120 kg
 Ø18: 160 Kg



Ø14: + 3,0 mm
 Ø16: + 4,5 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.

473 TRIXACTA Ø18



TRIXACTA guarantees top quality and reliable performance, and has passed CE tests for a **capacity of 160 kg.**

TRIXACTA facilitates rapid installation on **European groove profiles with 13mm axis**, adjustable on three axes by means of a single 4mm hex wrench. The end caps are available in several finishes to provide versatile, elegant and modern design.

FINISHING



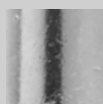
White Plastified
RAL 9016



Grey Plastified
9F

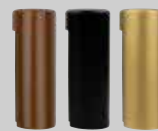


Satinized
Silver



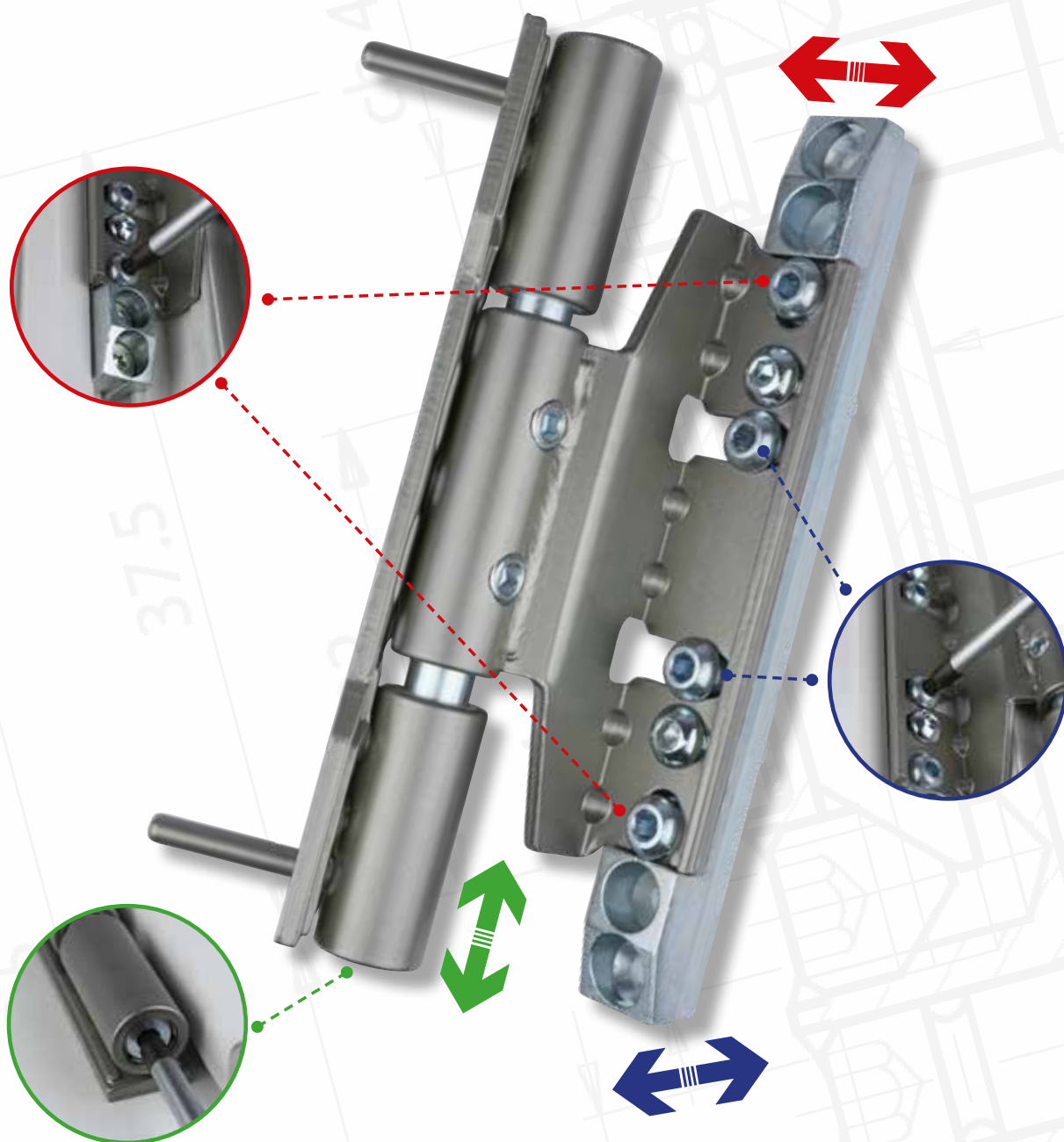
Zinc
Plated

CAPS



JT JZ PI
473Ø19 Aluminium

473 Trixacta Ø18



CAPACITY*
160 Kg



±4,0 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.

473 TRIXACTA Ø16



TRIXACTA Ø16 is a three parts hinge made up of a central bush with 3 pins and a two lateral bushes with plate equipped with 3 fixing holes and two pegs.

Stability, capacity and perfect alignment of the door are guaranteed; the hinge is suitable for heavy duty doors. TRIXACTA Ø16 is height and side adjustable by means of a single 4mm hex wrench. A **nylon cover allows to conceal the central three pins**, the end caps are available in several finishes to provide versatile, elegant and modern design.



White Plastified
RAL 9016

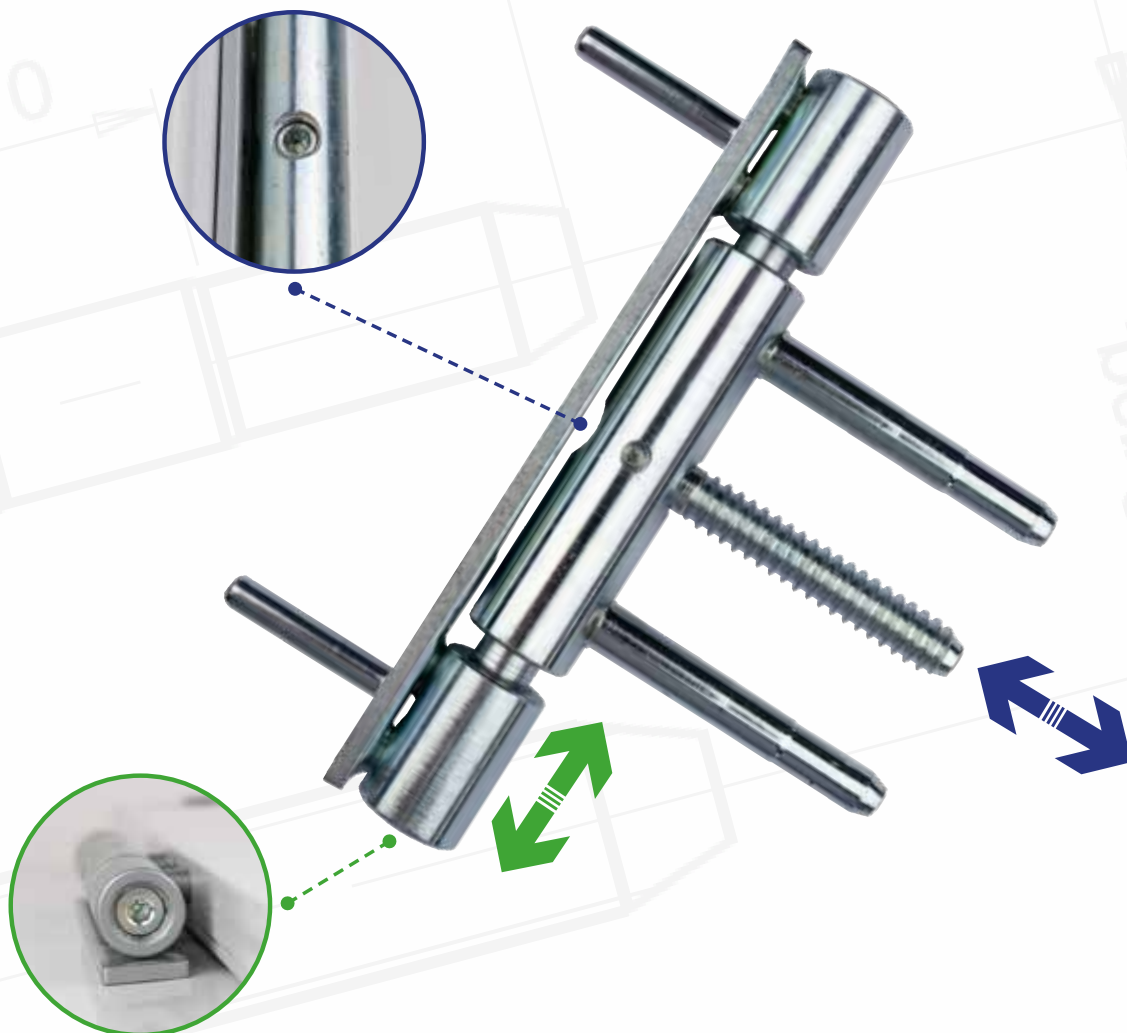


Grey Plastified
9F



Satinized
Silver

473 Trixacta Ø16



CAPACITY*
120 Kg



±4,0 mm

ADJUSTMENTS

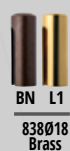
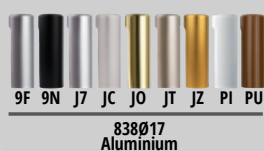
- Height
- Side

483 BIXACTA^{Wood}



Bixacta arose from the need to have an adjustable hinge for entrance doors in PVC, wood and aluminium, 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 mm.

CAPS



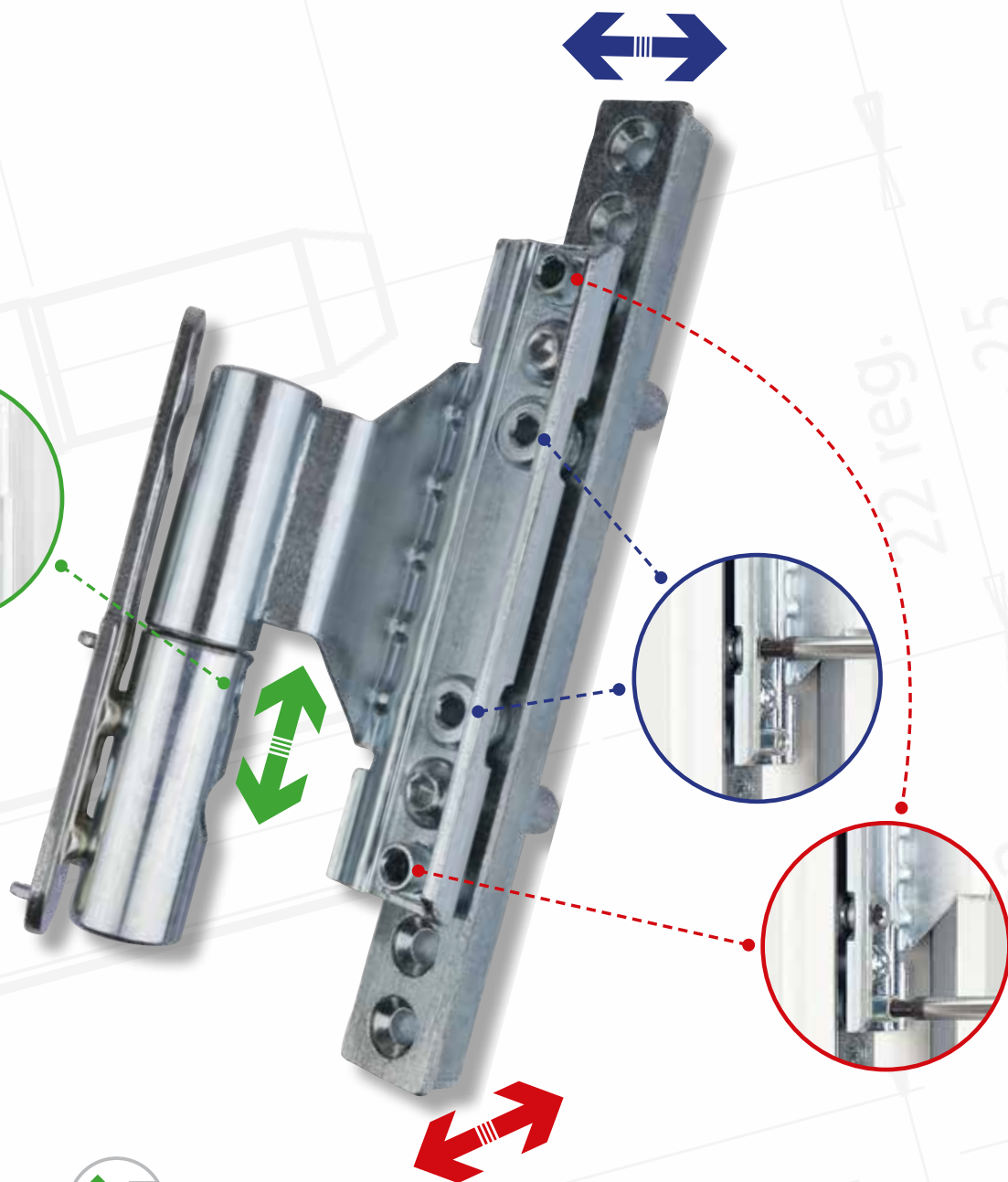
483 Bixacta Wood



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



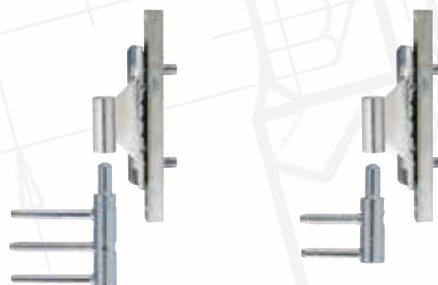
* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

483 MIXACTA

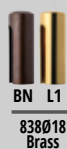


Mixacta 483 is the result of the combination of a male Exacta Ø16 or Ursus Ø16 with a female Bixacta.

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.



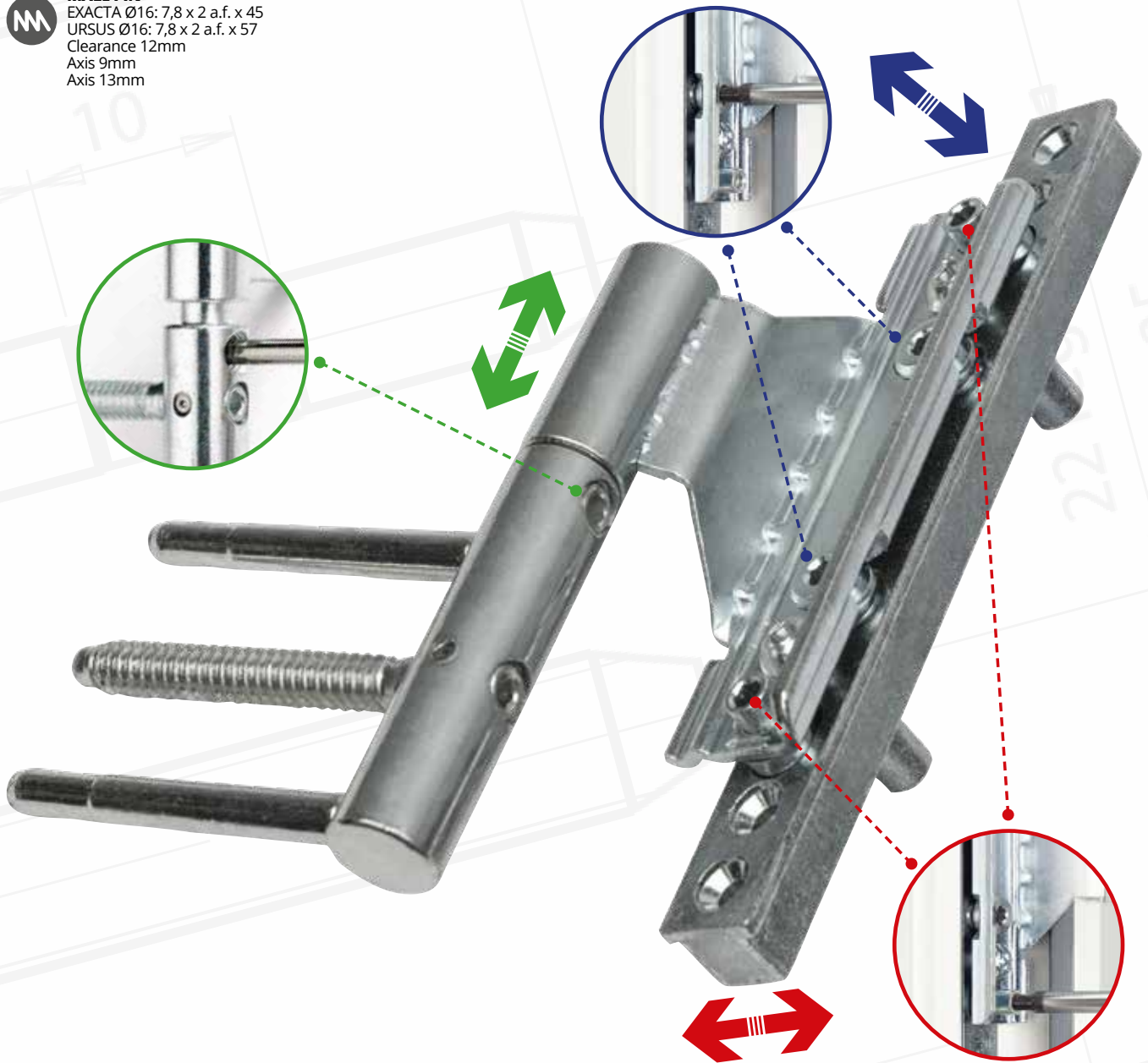
CAPS for BIXACTA/EXACTA Ø16



483 Mixacta

DIAMETER
Ø 16

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



CAPACITY*
Ø16: 80 Kg



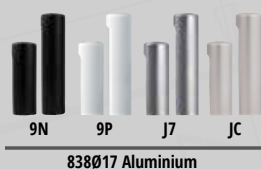
Ø16: +3,0 mm



ADJUSTMENTS

- Height
- Side
- Depth

CAPS for BIXACTA/URSUS Ø16



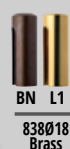
* Tested with 90x210 cm doors - For more information on the number of hinges to be used according to the weight and dimension of the door, please see the loading charts available on the website www.otlav.it.

488 SELF-CLOSING



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 mm.

CAPS



488 Self-closing

DIAMETER and HEIGHT
Ø16 x 82

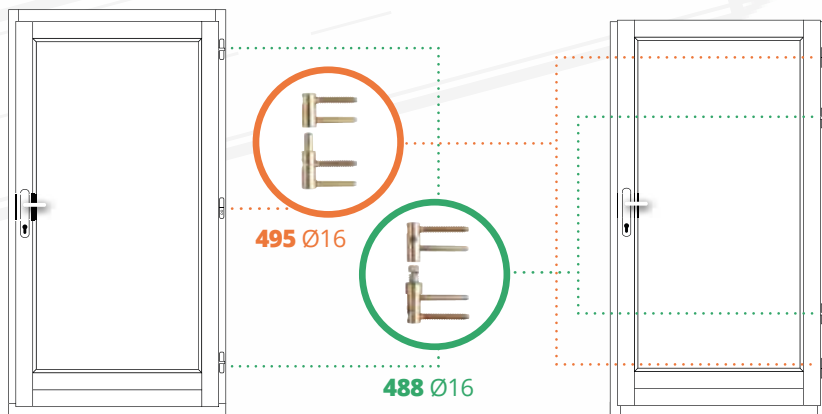
FEMALE PIN
Ø16: 7,8 x 2 a.f. x 57

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

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.

485 POMELLAS



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.



DIAMETER and HEIGHT
Ø 14 x 79,5

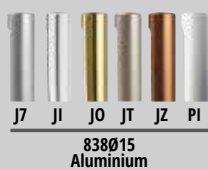
FEMALE PLATE
16 x 75

MALE PLATE
16 x 75

CAPACITY*
Ø14: 60 Kg

ADJUSTMENTS
● Height
Ø14: + 3,0 mm

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.

491 EXACTA



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.



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



CAPACITY*
Ø14: 60 Kg



Ø14: + 3,0 mm

ADJUSTMENTS

- Height
- Side

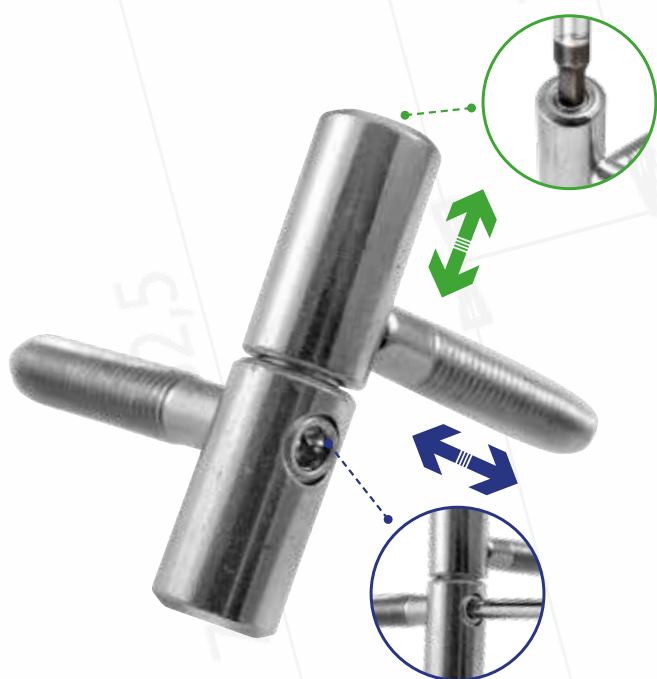
CAPS



057



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 13 and 14 mm diameter.



Ø13: + 5,0 mm
Ø14: + 5,0 mm

ADJUSTMENTS

- Height
- Side



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



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



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



FLUSH MOUNTING TOOL
Ø14 MA700140G002



OVERLAY MOUNTING TOOL
Ø13 MA701130G018
Ø14 MA701140G011



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



CAPACITY*
Ø13: 40 Kg
Ø14: 60 Kg

CAPS for Ø13



J7

847Ø14
Aluminium



9N



J7



JO



JT



PI

849Ø14
Aluminium

CAPS for Ø14



J7

847Ø15
Aluminium



J7

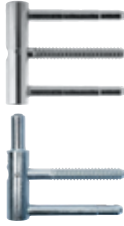
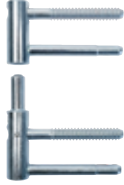
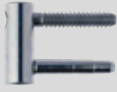


JO

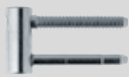
849Ø15
Aluminium

* 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.

Combinations Ø14 Exacta - Ursus

FEMALE	 URSUS Ø14 57 mm pins				 URSUS Ø14
	 EXACTA Ø14 57 mm pins			 EXACTA Ø14 Pins 57 mm	
	 EXACTA Ø14 45 mm pins		 EXACTA Ø14 Pins 45 mm		
	 EXACTA Ø14 38 mm pins	 EXACTA Ø14 Pins 38 mm			
	 491Ø14 45 mm pin	 491Ø14			
		 EXACTA Ø14 Pins 38 mm	 EXACTA Ø14 Pins 45 mm	 EXACTA Ø14 Pins 57 mm	 URSUS Ø14 Pins 38 mm
		MALE			

Combinations Ø16 - Exacta - Bixacta - Ursus

MALE	 URSUS Ø16 57 mm pins	 URSUS	 URSUS	 MIXACTA	 MIXACTA
	 EXACTA Ø16 57 mm pins	 EXACTA	 EXACTA	 MIXACTA	 MIXACTA
	 EXACTA Ø16 45 mm pins	 EXACTA	 EXACTA	 MIXACTA	 MIXACTA
	 EXACTA Ø16 38 mm pins	 EXACTA	 EXACTA	 MIXACTA	 MIXACTA
	 EXACTA Ø16 M8x20 mm pin	 EXACTA METAL	 EXACTA METAL	 MIXACTA	 MIXACTA
	 BIXACTA Ø16 Pegs Ø5x26	 MIXACTA	 MIXACTA	 BIXACTA	 BIXACTA
	 BIXACTA Ø16	 MIXACTA	 MIXACTA	 BIXACTA	 BIXACTA
		 EXACTA Ø16 45 mm pins	 EXACTA Ø16 57 mm pins	 BIXACTA Ø16 13 mm axis	 BIXACTA Ø16 9 mm axis
FEMALE					

19/07/24



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