

# Adjustable Evolution 3D



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

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.

## 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.



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



838Ø17  
Aluminium



838Ø18  
Brass



838Ø18  
Nylon



839Ø18  
Brass



846Ø17  
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](http://www.otlav.it).

# 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 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



**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](http://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 and 18 mm.

## CAPS for URSUS Ø14



JT

838Ø15 Aluminium

## CAPS for URSUS Ø18



J7

JC

JO

838Ø19 Aluminium

# 495 Ursus

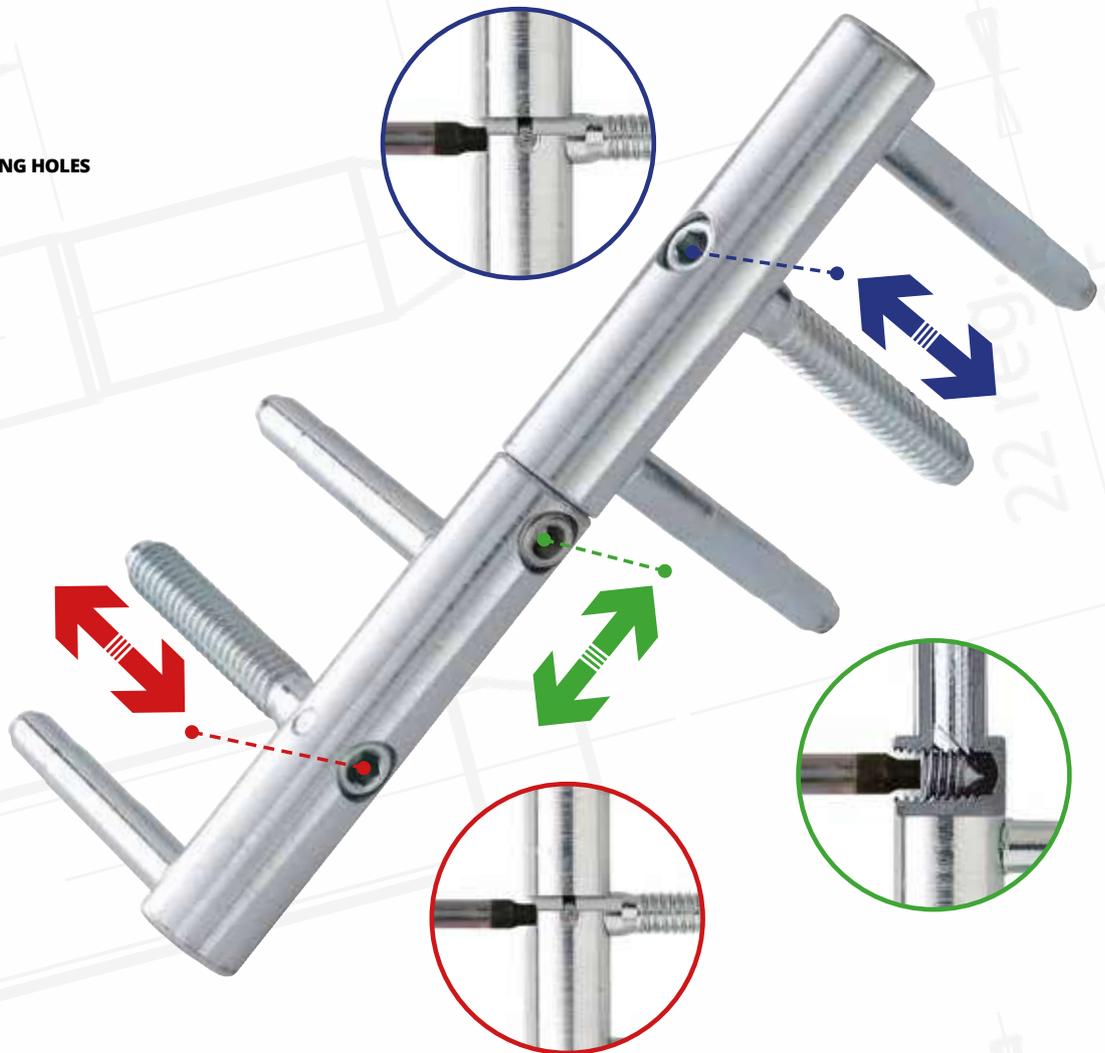
6 pins

**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



**CAPACITY\***  
Ø14: 80 Kg  
Ø18: 160 Kg



Ø14: + 3,0 mm  
Ø18: + 4,5 mm



CE

## ADJUSTMENTS

- Height
- Side
- Depth

OTLAV

\* 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](http://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.

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.

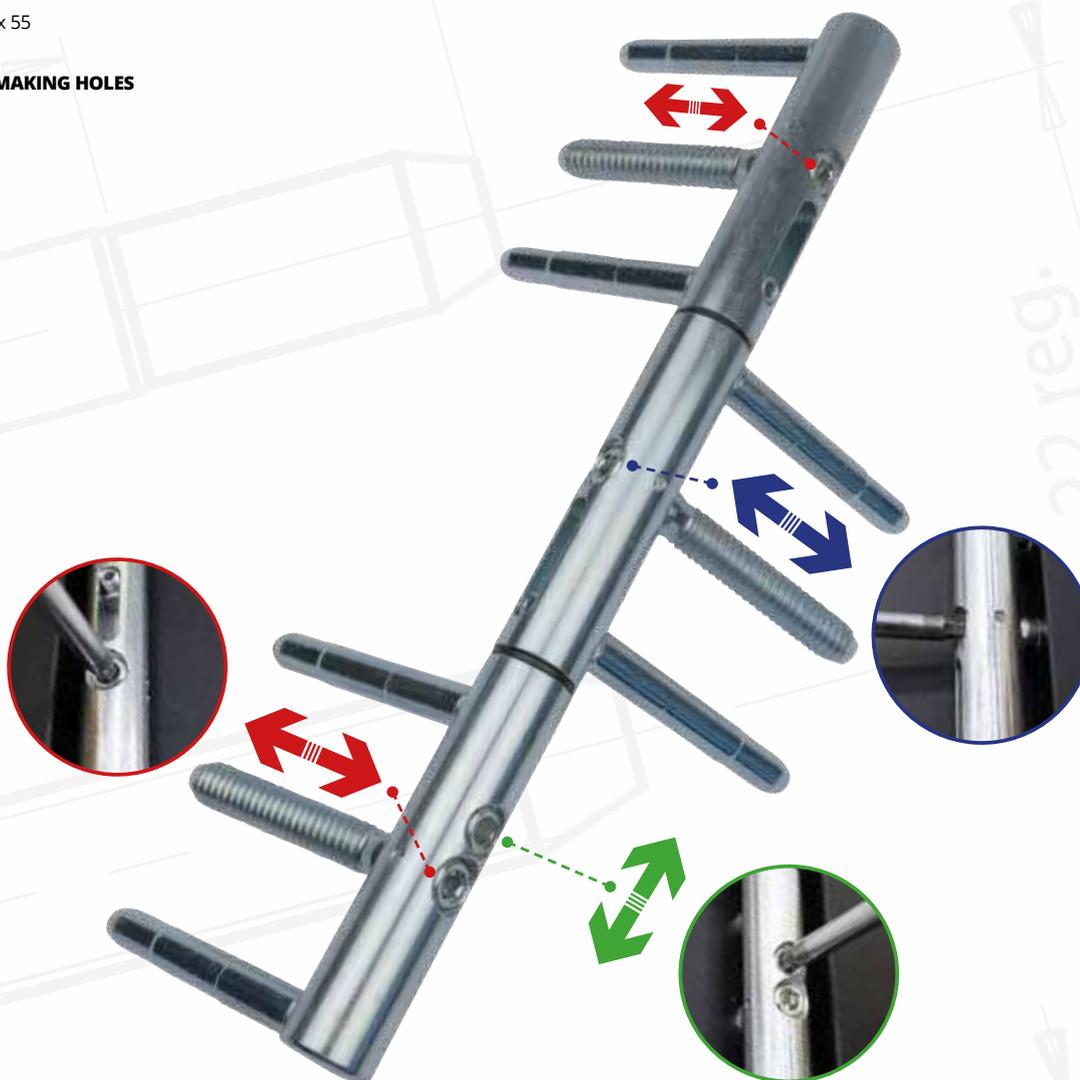
# 475 Ursus-Plus

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

\* 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](http://www.otlav.it).

# 483 BIXACTA<sup>Wood</sup>



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.

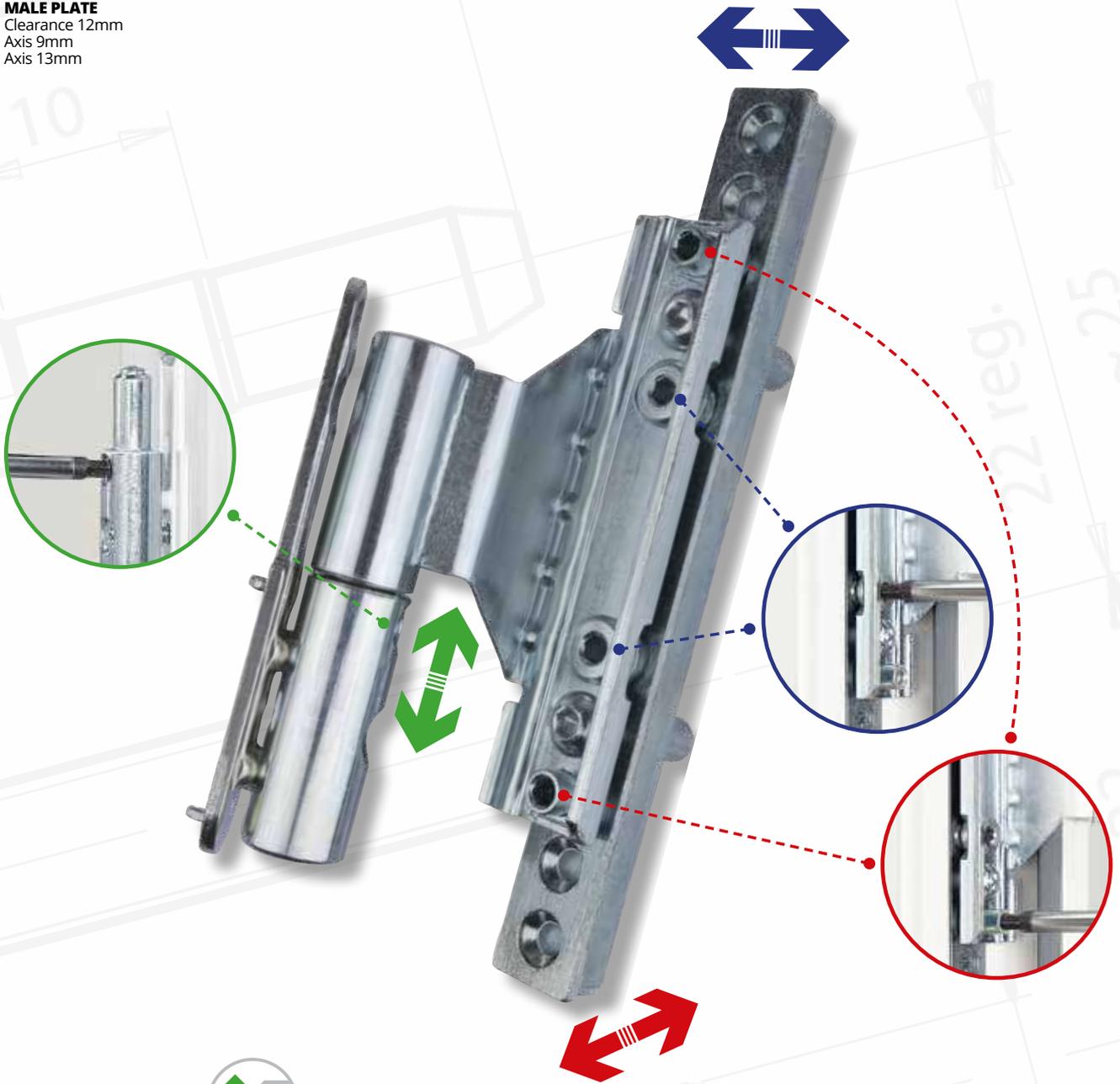
## CAPS



# 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

**OTLAV**

\* 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](http://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.



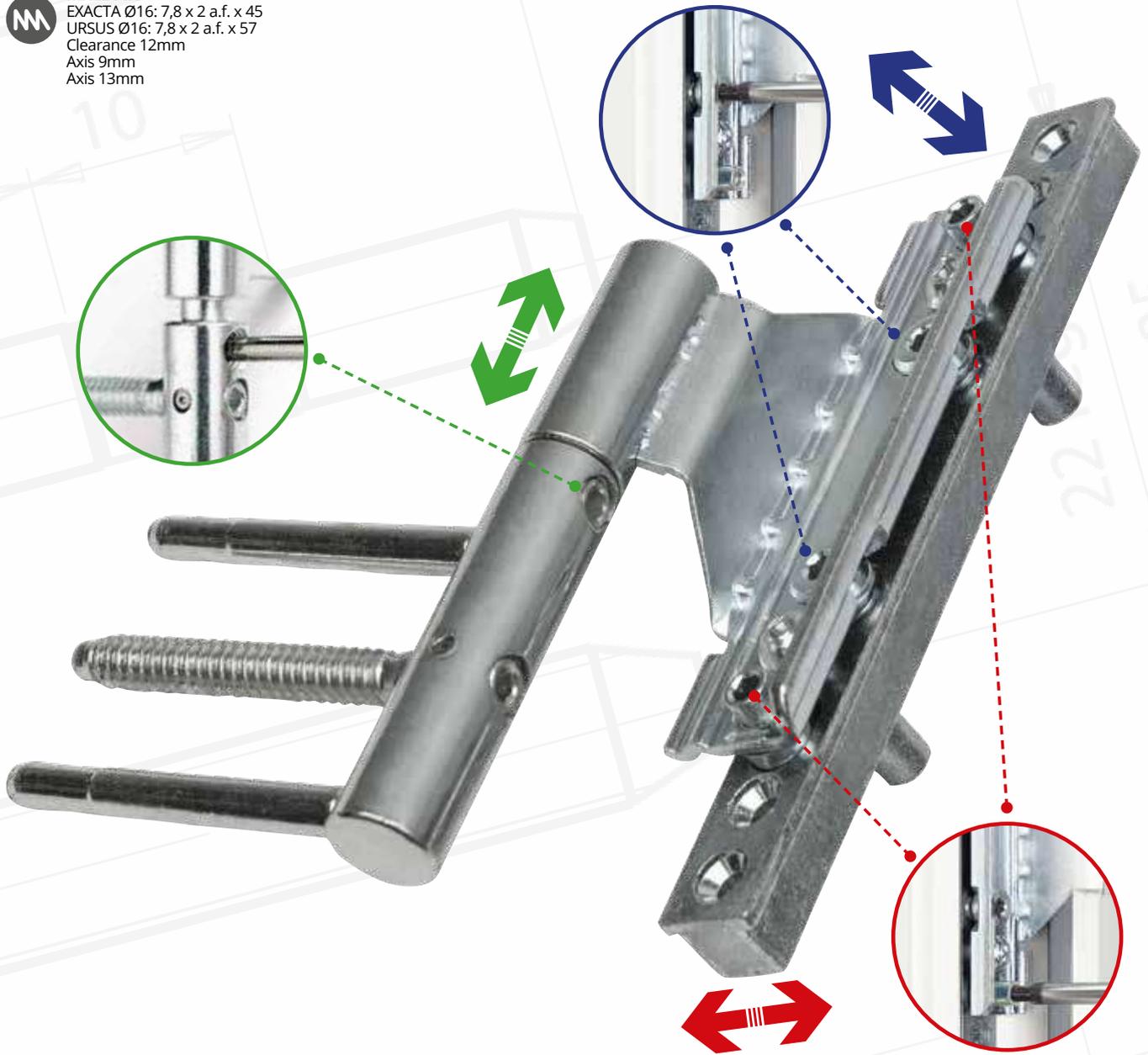
## CAPS for BIXACTA/EXACTA Ø16



# 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

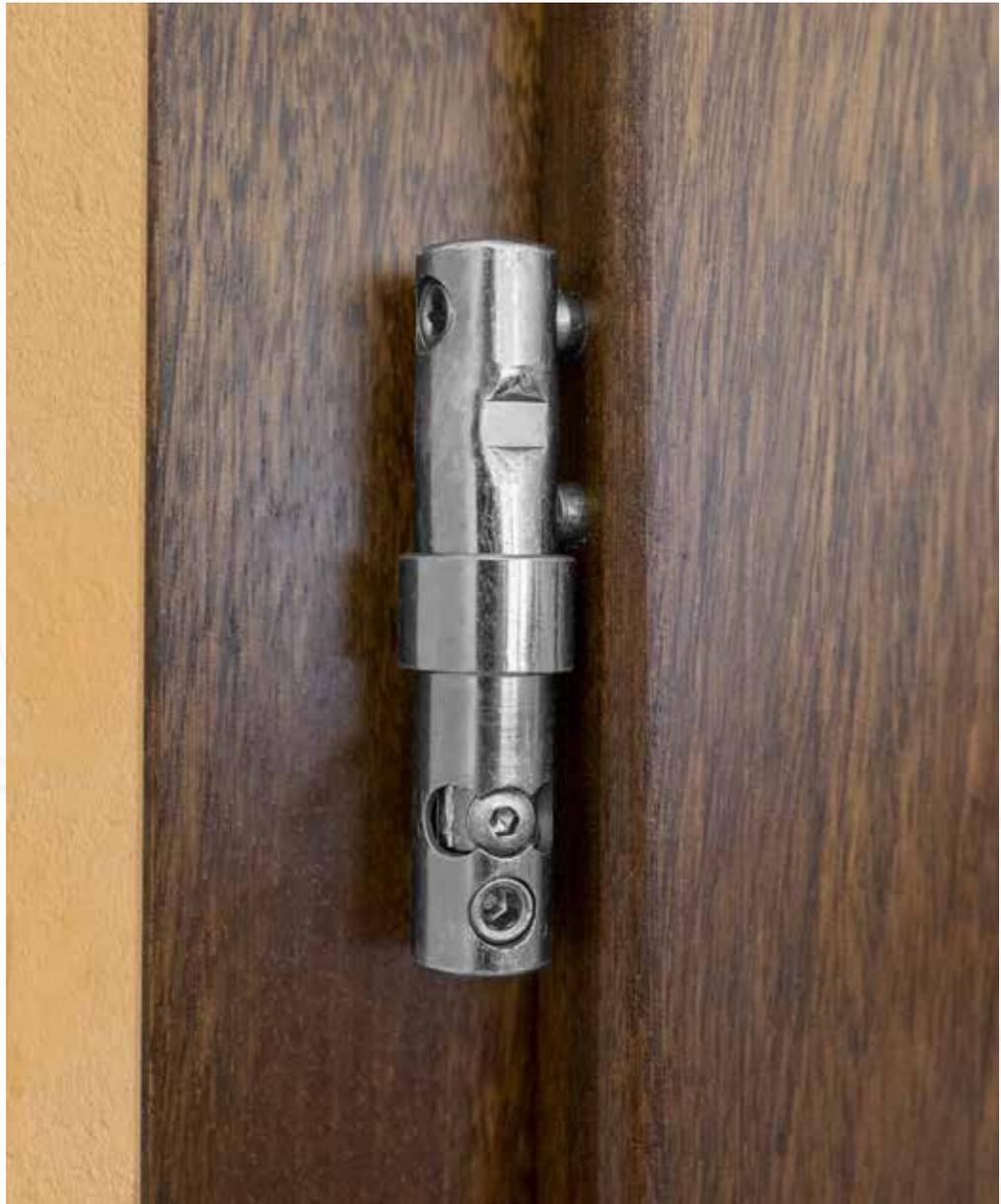
**CAPS** for BIXACTA/URSUS Ø16



\* 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.otl.wv.it](http://www.otl.wv.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**  
 $\varnothing 16 \times 82$

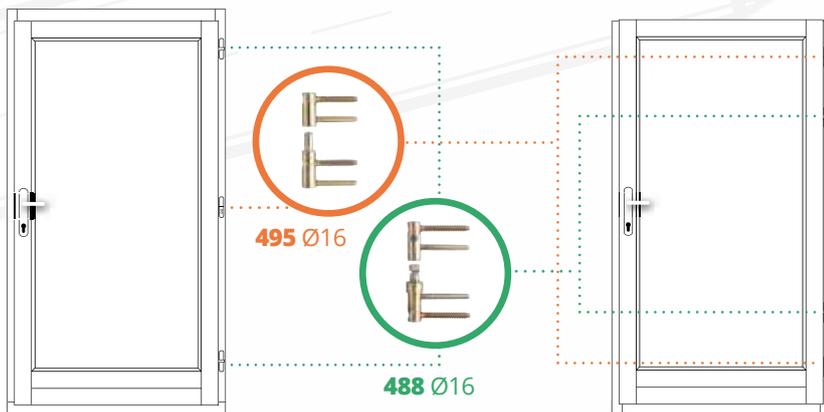
**FEMALE PIN**  
 $\varnothing 16: 7,8 \times 2 \text{ a.f. } \times 57$

**MALE PIN**  
 $\varnothing 16: 7,8 \times 2 \text{ a.f. } \times 57$

**FLUSH MOUNTING TOOL**  
 MA 700 160 G0 06

**OVERLAY MOUNTING TOOL**  
 MA 701 160 G0 35

**DRILL BIT FOR MAKING HOLES**  
 Hard wood  $\varnothing 7,0$   
 Soft wood  $\varnothing 6,8$



## 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.

# 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.

#### CAPS for $\varnothing 13$



J7 JA JO  
847 $\varnothing$ 14  
Aluminium



J7 JO PI  
849 $\varnothing$ 14  
Aluminium

#### CAPS for $\varnothing 14$



J7 JI JO  
847 $\varnothing$ 15  
Aluminium



J7 JO  
849 $\varnothing$ 15  
Aluminium

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

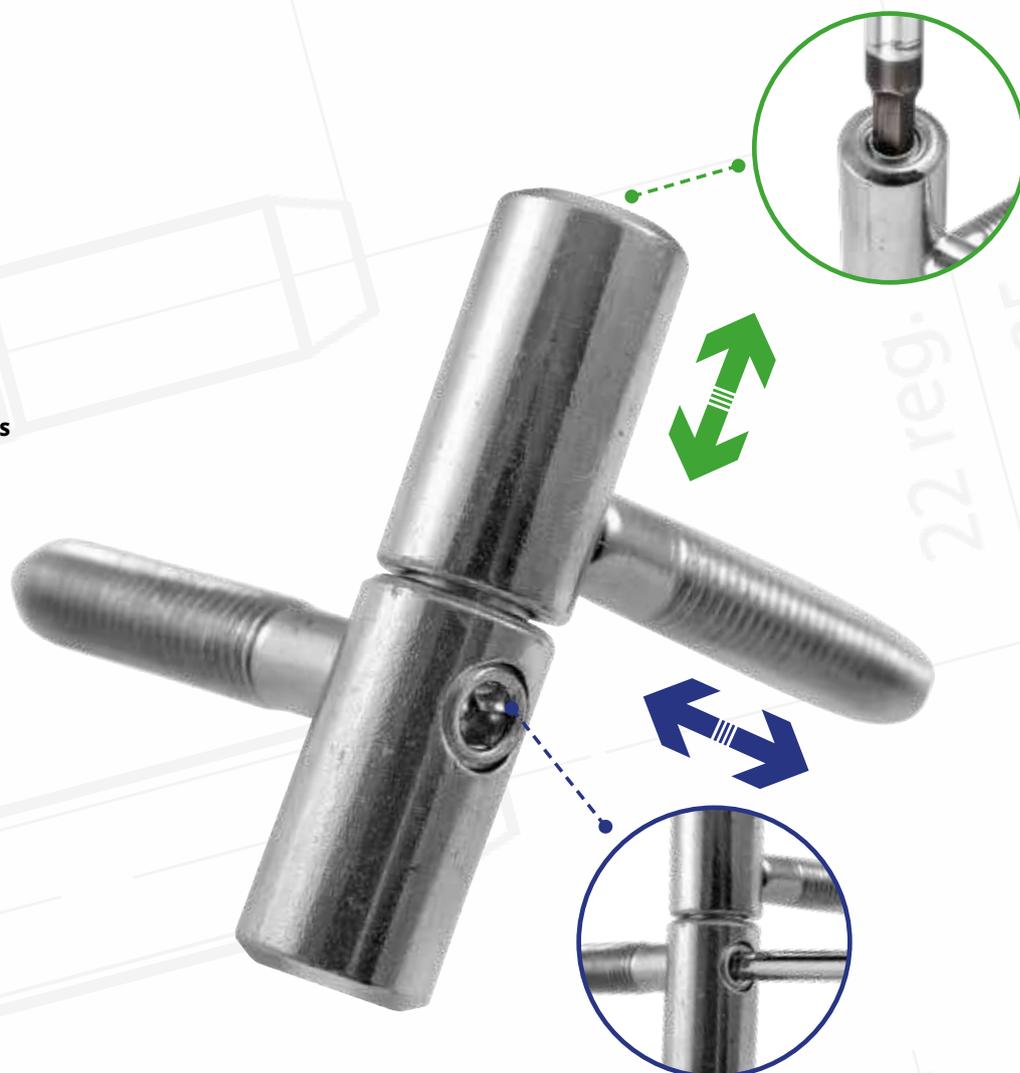
**FEMALE PIN**  
 Ø 13: 7,5 x 1,2 d.s. x 38  
 Ø 14: 8,1 x 1,2 d.s. x 40

**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



Ø13: + 5,0 mm  
 Ø14: + 5,0 mm

### ADJUSTMENTS

- Height
- Side

# 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.

## CAPS



# 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



 **CAPACITY\***  
Ø14: 60 Kg

  
Ø14: + 3,0 mm

**ADJUSTMENTS**  
● Height  
● Side

\* 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](http://www.otlav.it).

# 484 NORDEX



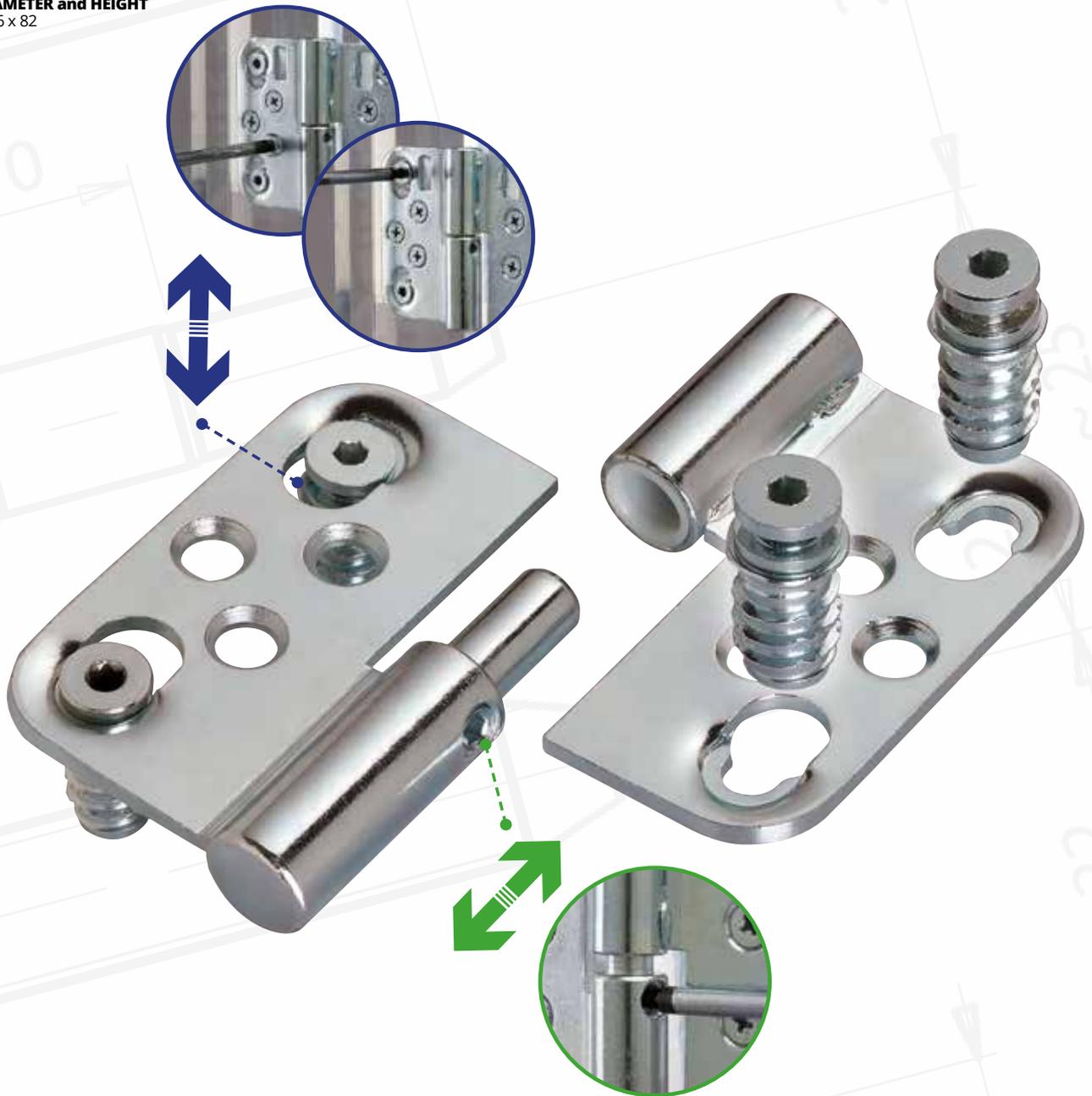
Nordex is a very popular hinge in Northern European countries; it is characterized by its reliability and the ease with which it is possible to adjust the leaf of a flush door or window, following a simple sequence on mounting. In addition, the effectiveness of the carrying capacity is guaranteed by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

## CAPS



# 484 Nordex

 **DIAMETER and HEIGHT**  
Ø16 x 82



 **CAPACITY\***  
Ø16: 60 Kg

 **Ø16: + 5,0 mm**

**ADJUSTMENTS**  
● Height  
● Side

\* 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](http://www.otlav.it).

# 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.

## CAPS



# 485 Pomellas

 **DIAMETER and HEIGHT**  
Ø 14 x 79,5

 **FEMALE PLATE**  
16 x 75

 **MALE PLATE**  
16 x 75



 **CAPACITY\***  
Ø14: 60 Kg



Ø14: + 3,0 mm

**ADJUSTMENTS**  
● Height

\* 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](http://www.otlav.it).

# Combinations Ø14 Exacta - Ursus

<b>FEMALE</b>	 <p><b>URSUS Ø14</b> 57 mm pins</p>				 <p><b>URSUS Ø14</b></p>
	 <p><b>EXACTA Ø14</b> 57 mm pins</p>			 <p><b>EXACTA Ø14</b> 57 mm pins</p>	
	 <p><b>EXACTA Ø14</b> 45 mm pins</p>		 <p><b>EXACTA Ø14</b> 45 mm pins</p>		
	 <p><b>EXACTA Ø14</b> 38 mm pins</p>	 <p><b>EXACTA Ø14</b> 38 mm pins</p>			
	 <p><b>491Ø14</b> 45 mm pin</p>	 <p><b>491Ø14</b></p>			
	 <p><b>EXACTA Ø14</b> 38 mm pins</p>	 <p><b>EXACTA Ø14</b> 45 mm pins</p>	 <p><b>EXACTA Ø14</b> 57 mm pins</p>	 <p><b>URSUS Ø14</b> 38 mm pins</p>	
	<b>MALE</b>				

# Combinations Ø16 - Exacta - Bixacta - Ursus

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







dal 1956

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