

## CX-Series

CLAMPING

INTERNATIONAL  
**MOUNT**

GLOBAL STANDARD COMPONENTS  
**NAAMS**



**Patented**



### Power clamps for double workpiece identification

International mount - Naams mount

For critical applications, where it is required to identify the unwilling presence of two metal sheets in the process and to avoid their clamping. This built-in device **allows a reliable double workpiece identification**.

The below end cap shows an **adjustment screw**: by loosening the screw, the inlet pressure is adjusted, i.e. reduced to the minimum required to guarantee the **clamping of a single workpiece**, not of two metal sheets. The toggle linkage is therefore prevented from engaging (no toggle lock) and consequently the sensor will not detect the closed position and will signal the anomaly. Once the clamp is properly adjusted from the below end cap screw, to be able to clamp a single workpiece, **it will be able to detect the false condition in case a second workpiece is inadvertently set on the tooling**.

## Instructions

The adjustment cannot be performed without air.

- 1 Install the clamp on the fixture by using all 4 screws and dowels. If mounted on the side, use the key slot.
- 2 Check the shimming and make sure that that with 5/ 5.5 bars the clamp is operating smoothly (0.3 or less shimming is optimal).
- 3 Place the workpiece and clamp it. Make sure you get the red led signal for closed position.
- 4 Open the clamp.
- 5 Use, further to the workpiece, a thickness gauge (a feeler or a shim) whose thickness is half the thickness of the workpiece.
- 6 Close the clamp and tighten the screw slightly. Operate the clamp and check if the closed position signal is lost. In this way, the pressure is reduced and the cylinder won't get enough push force to engage the toggle linkage.
- 7 Open and close a few times, then double check with two workpieces and no red led light will be on, in such a condition.
- 8 If ok, tighten the bolt behind the screw to avoid its loosening.



## Technical features

**Manual release button** to open the linkage when air pressure is removed during setup. **Pneumatic ports on both sides** of the cylinder.

### Operating features

<b>Operating pressure</b>	from 2 to 8 bar / from 30 to 115 psi
<b>Lubrication</b>	all the devices are lubricated for life at the factory. Inline air lubrication isn't required

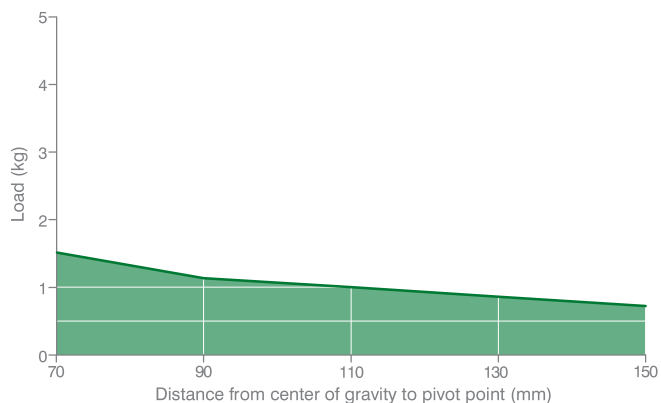
## Functional charts

## Size 40 mm

## • Tooling weight chart

5 bar operating pressure – 135° opening angle

REV. 00 - 17/06/2015



## • Holding moment

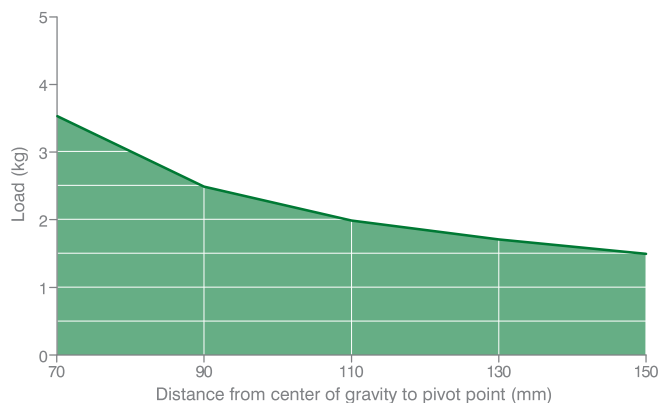
380 N m / 280,27 lb·ft

## Size 50 mm

## • Tooling weight chart

5 bar operating pressure – 135° opening angle

REV. 00 - 17/06/2015



## • Holding moment

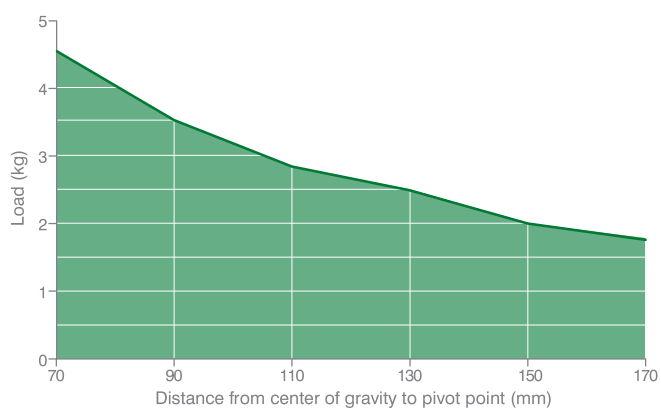
800 N m / 590,04 lb·ft

## Size 63 mm

## • Tooling weight chart

5 bar operating pressure – 135° opening angle

REV. 00 - 17/06/2015









## • Holding moment

1.500 N m / 1.106,34 lb·ft

## CX-Series / Ordering string

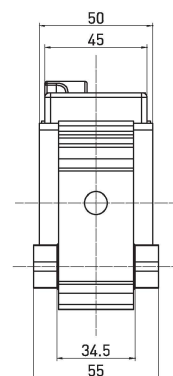
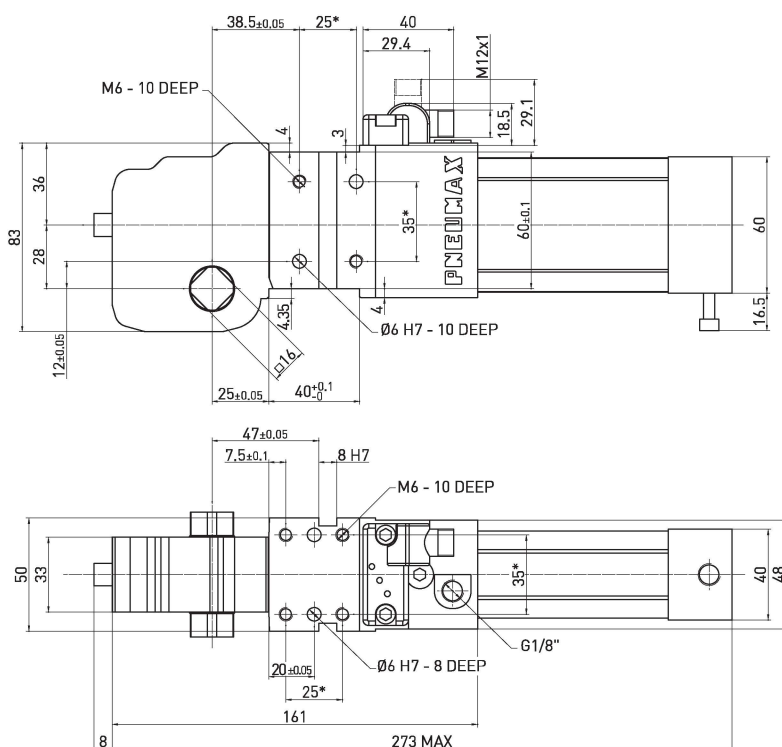
## CX-Series

# C 1 X 40 E G 1 A 01

<b>C</b>	<b>VERSION</b>	<b>C</b> = clamp	
<b>1</b>	<b>MOUNTING PATTERN</b>	<b>1</b> = International mount <b>2</b> = NAAMS Standard	<b>INTERNATIONAL MOUNT</b>  <b>GLOBAL STANDARD COMPONENTS NAAMS</b> 
<b>X</b>	<b>OPERATION</b>	<b>X</b> = double workpiece identification	
<b>40</b>	<b>SIZE</b>	<b>40</b> = 40 mm <b>50</b> = Ø 50 mm <b>63</b> = Ø 63 mm	
<b>E</b>	<b>SENSOR</b>	<b>E</b> = electronic sensor with M12 swivel connector - PNP <b>A</b> = electronic sensor with M12 swivel connector - NPN <b>N</b> = no sensor <b>B</b> = electronic sensor with M8 swivel connector - PNP	
<b>G</b>	<b>PORTS</b>	<b>G</b> = G thread – BSPP <b>N</b> = NPT	
<b>1</b>	<b>ARM MOUNT</b>	<b>1</b> =  <b>2</b> =  <b>3</b> =  <b>4</b> = 	
<b>A</b>	<b>ARM MATERIAL</b>	<b>A</b> = aluminum <b>S</b> = steel	
<b>01</b>	<b>CLAMP ARM TYPE</b>	<b>01</b> = wishbone, central, 15 mm offset <b>02</b> = wishbone, right, 15 mm offset <b>03</b> = wishbone, left, 15 mm offset <b>04</b> = wishbone, central, 45 mm offset <b>05</b> = wishbone, right, 45 mm offset <b>06</b> = wishbone, left, 45 mm offset	<p>Please see the charts in the datasheets for arm position as well as for max. opening angle.</p> <p>NAAMS clamping arms to be ordered separately</p>

**C1X40E** / Clamp with double workpiece identification - International mount - 40 mm bore

**WEIGHT 1.6 kg**



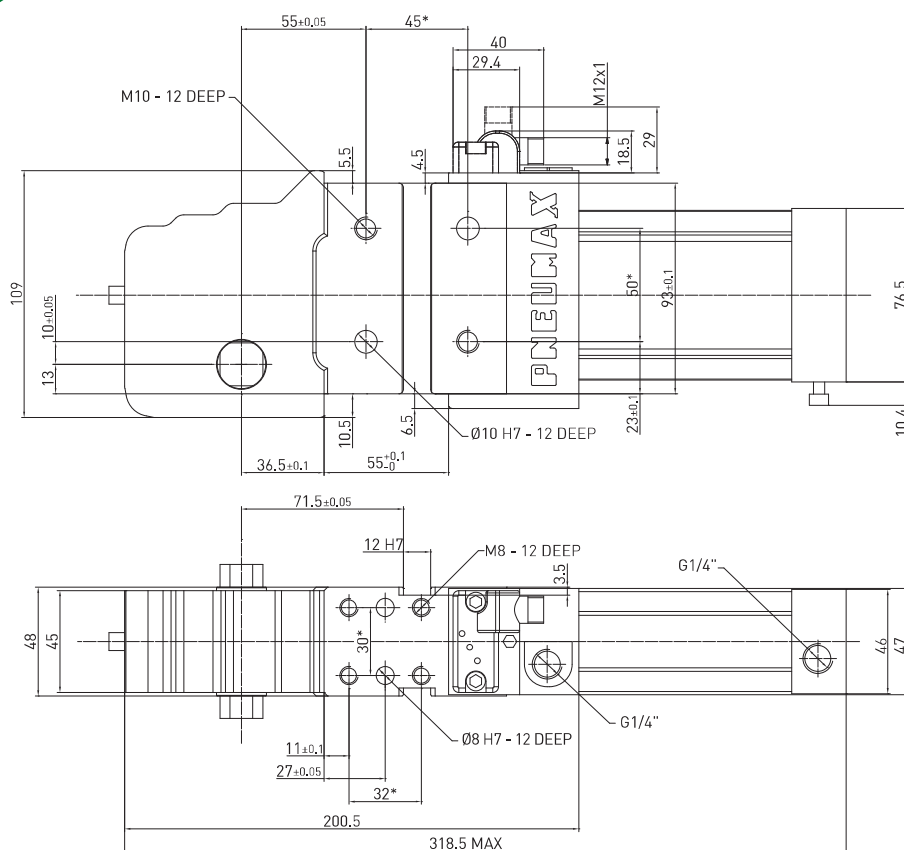
\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$

DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$

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**C1X50E / Clamp with double workpiece identification - International mount - 50 mm bore**

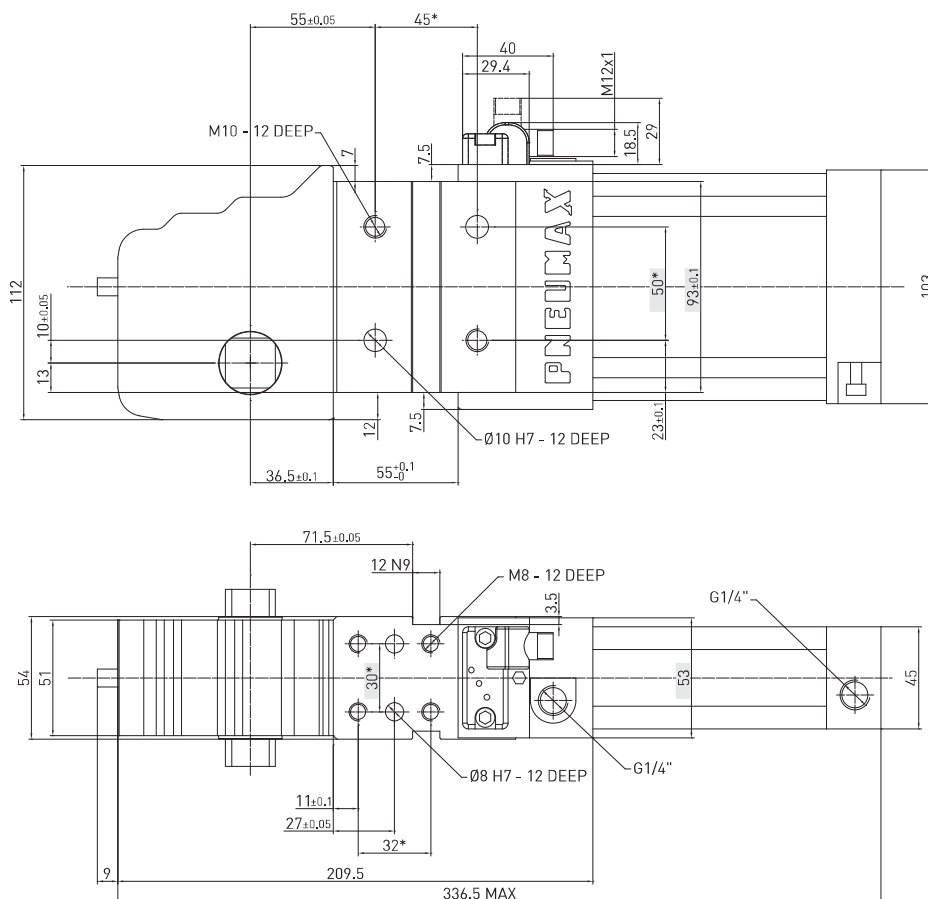
WEIGHT 2.9 kg

\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$ DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$ 

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**C1X63E / Clamp with double workpiece identification - International mount - 63 mm bore**

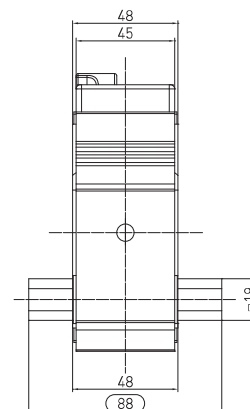
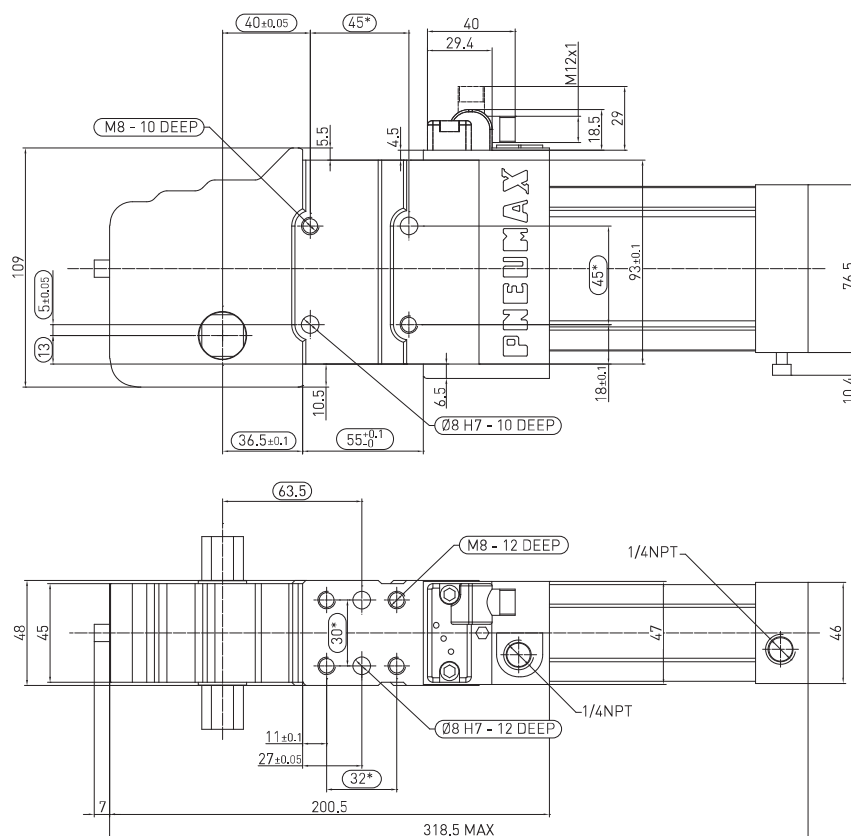
WEIGHT 3.7 kg

\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$ DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$ 

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### C2X50E / Clamp with double workpiece identification - NAAMS Std - 50 mm bore

**WEIGHT 2.95 kg**



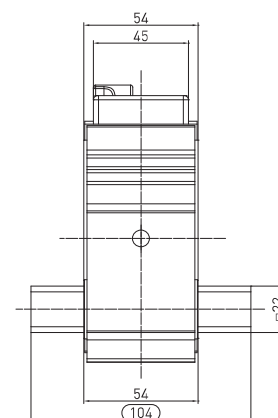
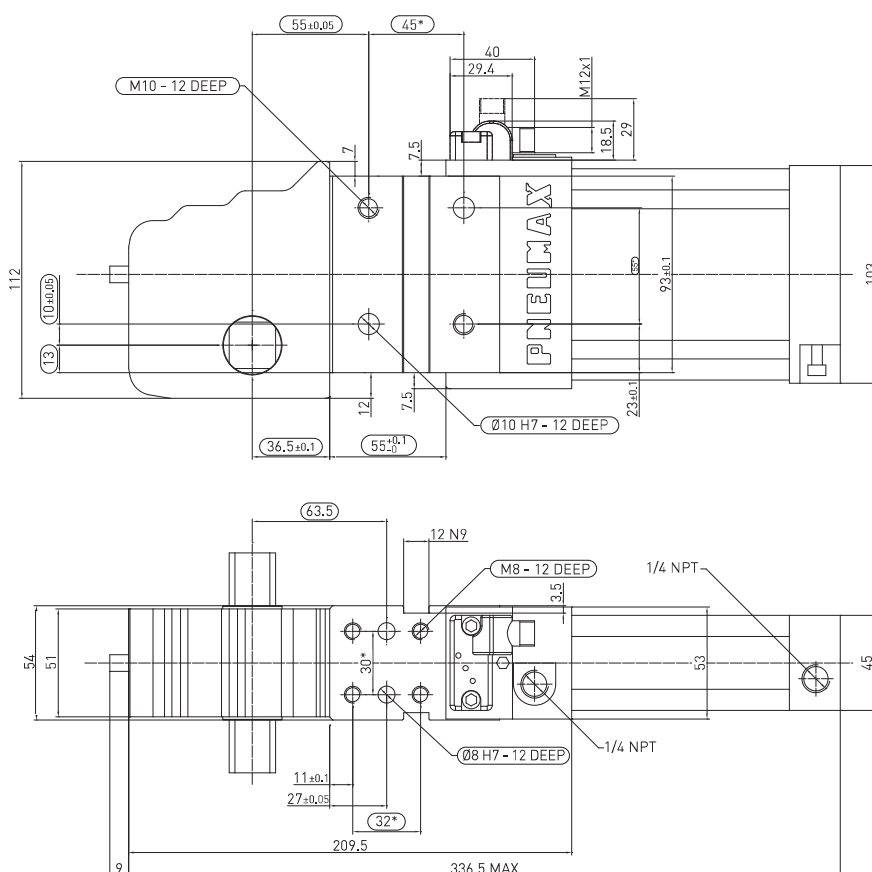
\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$

DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$

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**C2X63E** / Clamp with double workpiece identification - NAAMS Std - 63 mm bore

**WEIGHT 3.75 kg**



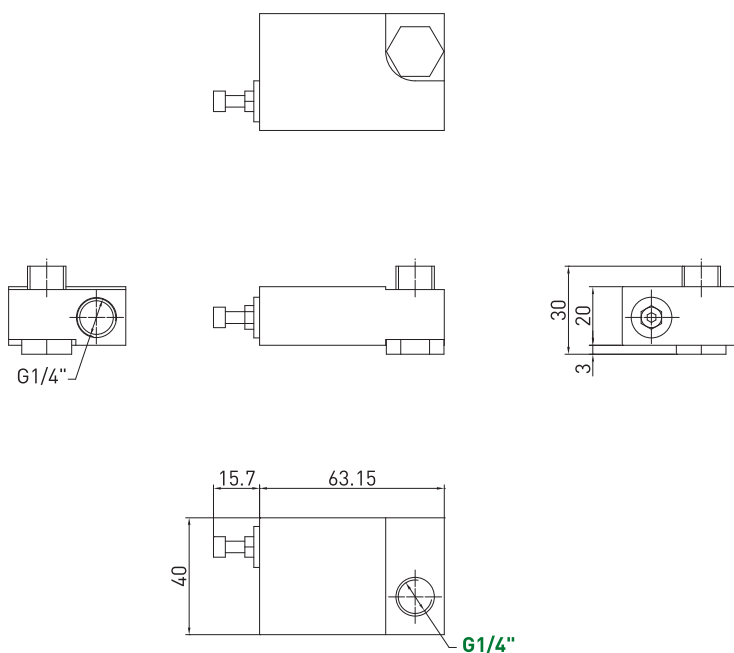
\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$

DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$

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**ADWI14: for clamps size 50 and 63 mm / Devices for double workpiece identification - G 1/4"**

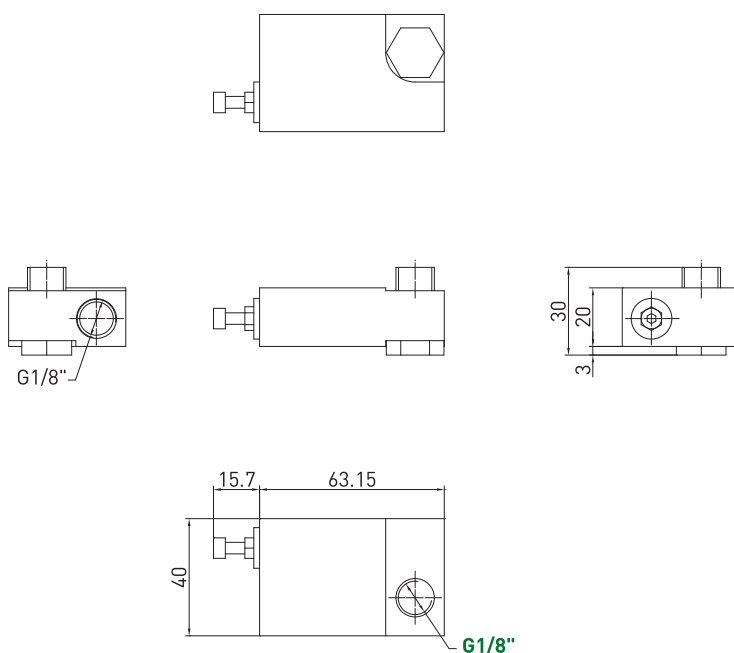
WEIGHT 100 g

\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$ DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$ 

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**ADWI18: for clamps size 25,32 and 40 mm / Devices for double workpiece identification - G 1/8"**

WEIGHT 100 g

\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$ DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$ 

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