

## OVVO V-0930 Connection System User Guide

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## OVVO V-0930 Connection System User Guide

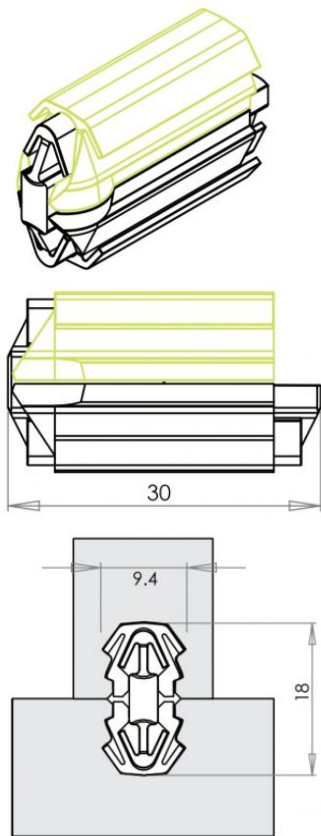


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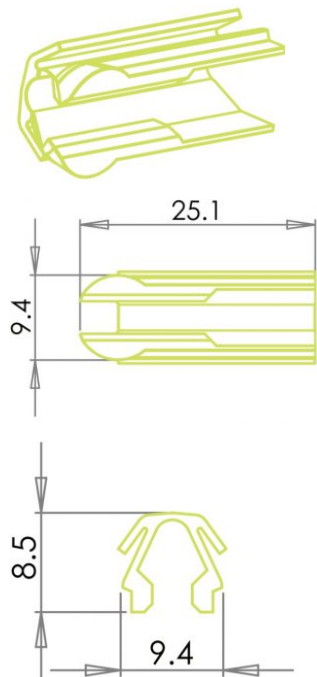
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### Releasable Specifications

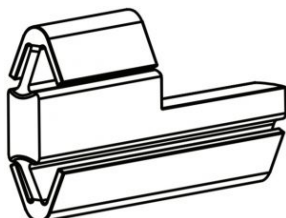
### V-0930 Releasable

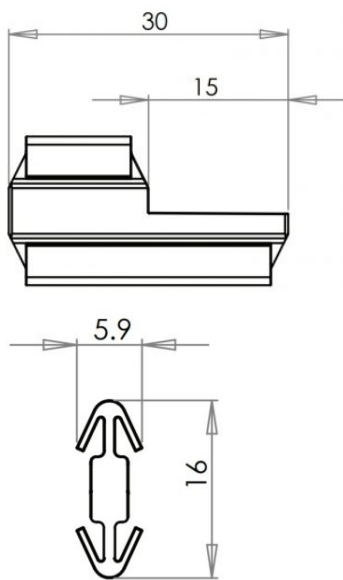


### V-0930RH

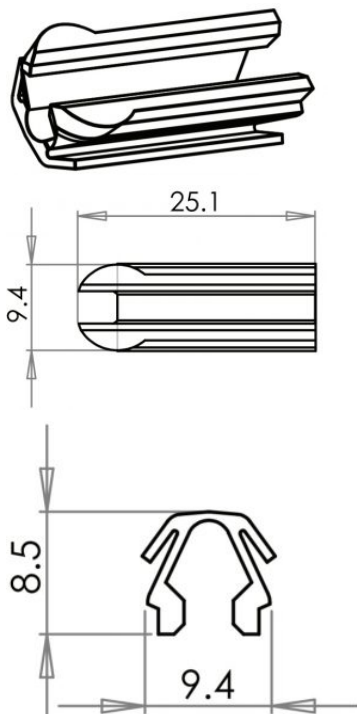


### V-0930RC

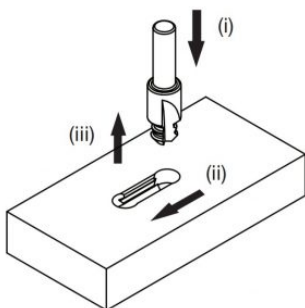


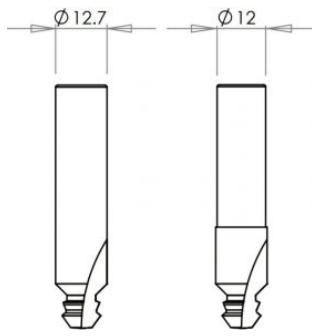


**V-0930PH**

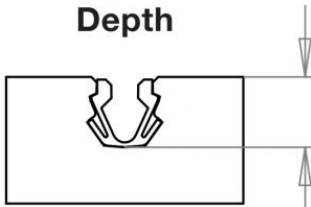


1. Plunge
2. Travel
3. Out





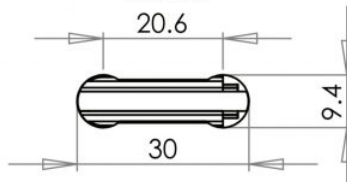
### Depth



### Depth Tolerances:

9.5mm, +/- 0.5mm

### Travel

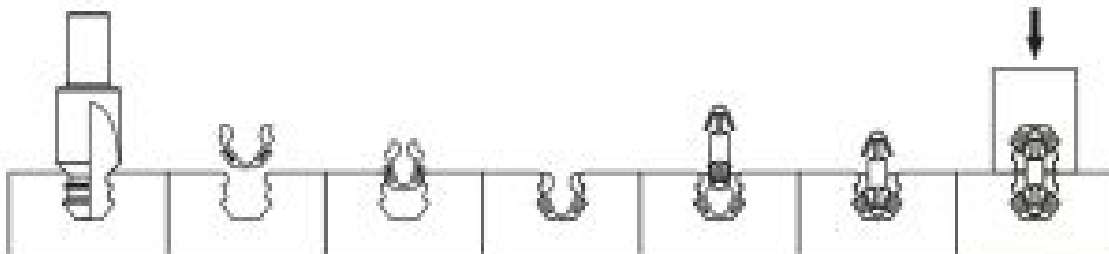


**Travel** (Centre to Centre): 20.6mm

**Out to Out:** 30mm

CNC speeds vary with different materials. Maximum cutter rotation: 18,000

### How it works



### Recommended Minimum Board Depth

Recommended minimum board depth or thickness values for the V-0930 will change depending on both the substrate material used as well as the joint angle.



Fig 1



Fig 2

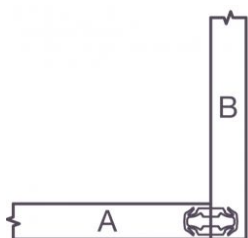


Fig 3

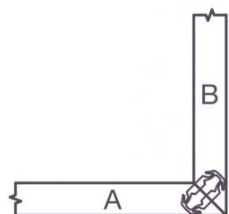


Fig 4

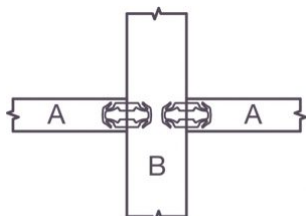


Fig 5

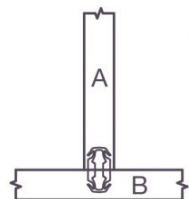


Fig 6

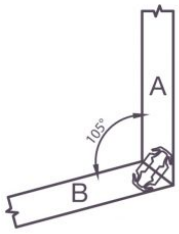


Fig 7

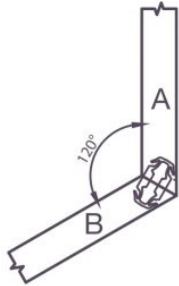


Fig 8

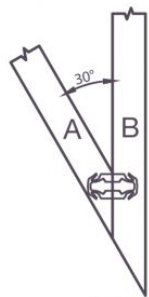


Fig 9

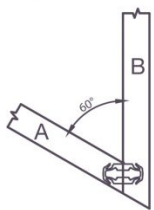


Fig 10

Minimum recommended measurements shown below are categorized according to two distinct groups of board material which share broadly similar connector retention properties.

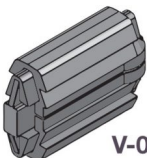
**HPL, Composite, Solid Surface, Hardwoods, Birch Plywood**

	<b>A</b>	<b>B</b>
<i>Fig 1</i>	12mm	12mm
<i>Fig 2</i>	12mm	12mm
<i>Fig 3</i>	12mm	12mm
<i>Fig 4</i>	14mm	14mm
<i>Fig 5</i>	12mm	19mm
<i>Fig 6</i>	12mm	12mm
<i>Fig 7</i>	12mm	12mm
<i>Fig 8</i>	12mm	12mm
<i>Fig 9</i>	12mm	12mm
<i>Fig 10</i>	12mm	12mm

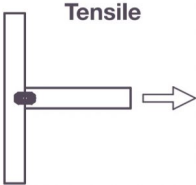
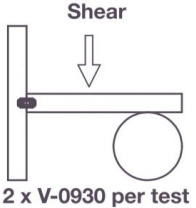
Particle/Chipboard, Softwoods, MDF		
	A	B
<i>Fig 1</i>	15mm	15mm
<i>Fig 2</i>	12mm	12mm
<i>Fig 3</i>	16mm	12mm
<i>Fig 4</i>	15mm	15mm
<i>Fig 5</i>	15mm	19mm
<i>Fig 6</i>	15mm	12mm
<i>Fig 7</i>	15mm	15mm
<i>Fig 8</i>	15mm	15mm
<i>Fig 9</i>	15mm	15mm
<i>Fig 10</i>	15mm	15mm

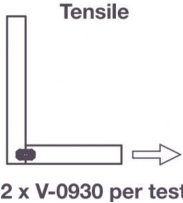
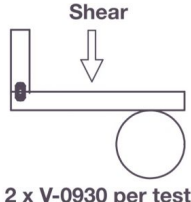
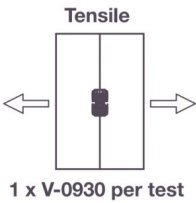
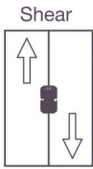
These are guidelines only and OVVO® recommends trial connections be made before going into full production

## Shear & Tensile

	18mm Chipboard	18mm MDF	18mm Plywood	12mm Plywood	12mm HPL
 V-0930					



	Perma nent	Releas able	Perma nent	Releas able	Perma nent	Releas able	Perma nent	Releas able	Perma nent	Releas able
	65kg	52.5kg	67.5kg	42.5kg	140kg	82.5kg	75kg	57.5kg	—	—
	150kg	130kg	180kg	130kg	475kg	325kg	175kg	110kg	—	—

 <p>Tensile</p> <p>2 x V-0930 per test</p>	40kg	40kg			-	-	-	-	-	-
 <p>Shear</p> <p>2 x V-0930 per test</p>	85kg	85kg	-		-	-	-	-	-	-
 <p>Tensile</p> <p>1 x V-0930 per test</p>	50kg	30kg	50kg	35kg	-	-	85kg	45kg	100kg	50kg
 <p>Shear</p> <p>1 x V-0930 per test</p>	105kg	70kg	137.5kg	90kg	-	-	170kg	105kg	230kg	140kg

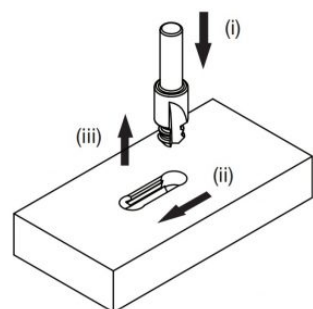
## Releasable Instructions



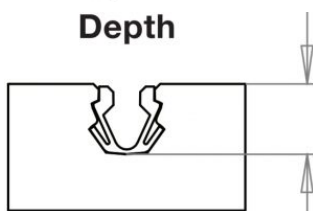
<http://ovvotech.com/help>

### Milling

1. Plunge
2. Travel
3. Out



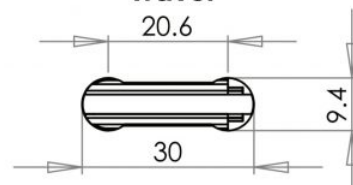
**Depth**



#### Depth Tolerances:

9.5mm, +/- 0.5mm

#### Travel

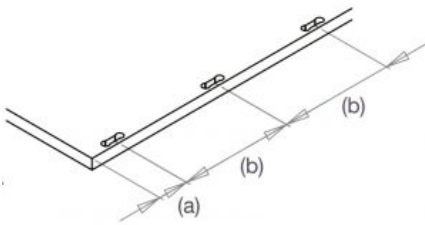


**Travel Centre to Centre:** 20.6mm

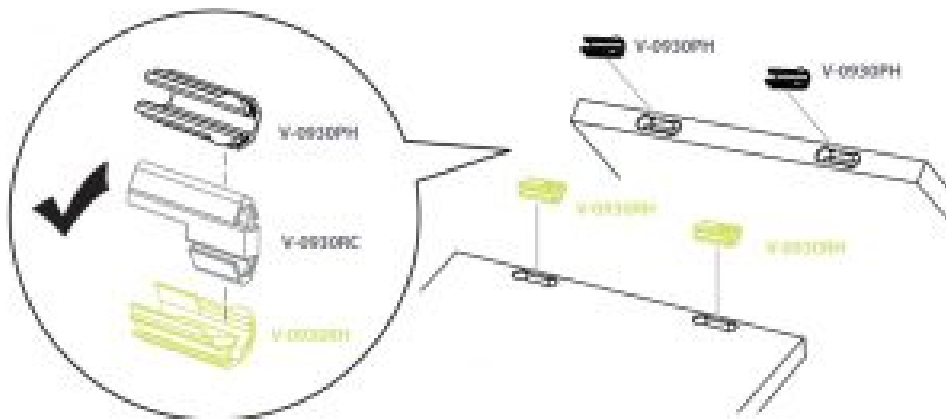
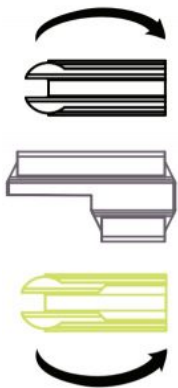
**Rotation Speed:** CNC speeds vary with different materials. Maximum cutter rotation: 18,000.

#### Recommended Spacing

1. 35mm to 80mm
2. : 100mm to 250mm

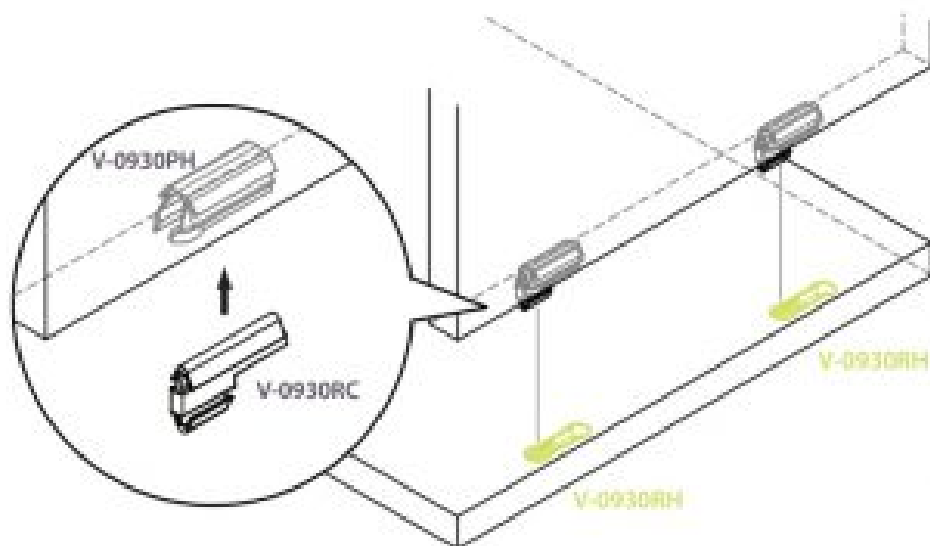


## Housing

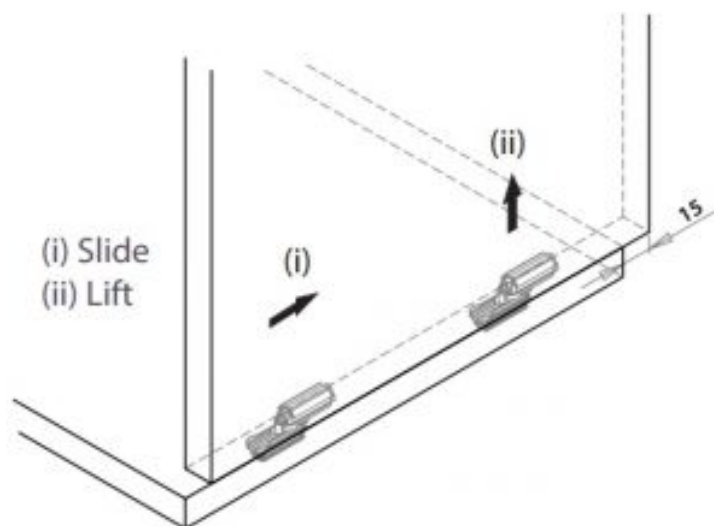


## Assembly

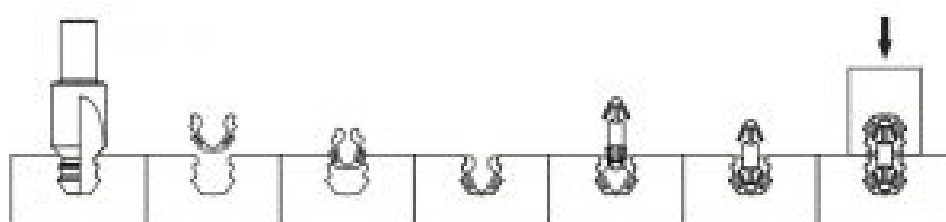
Simply push or slide to connect



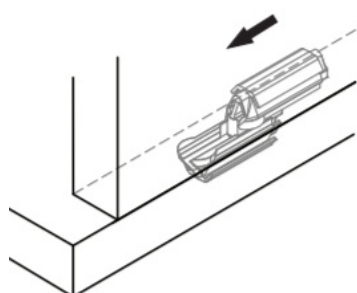
## Release



## How it works



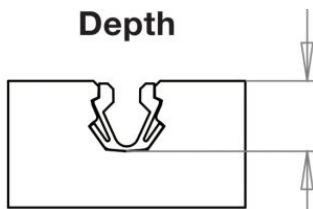
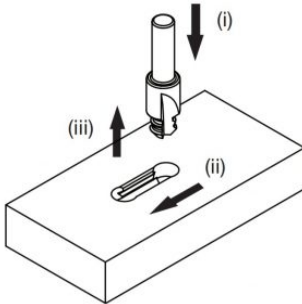
## Simply push or slide to connect



## Permanent Instructions

### Milling

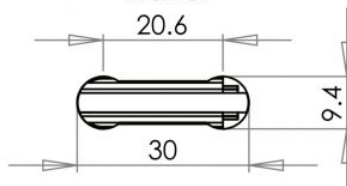
1. Plunge
2. Travel
3. Out



#### Depth Tolerances:

9.5mm, +/- 0.5mm

#### Travel

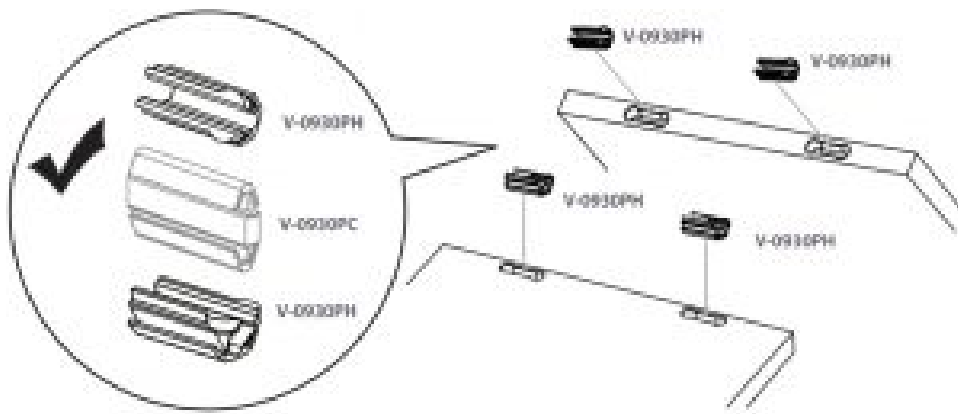


**Travel Centre to Centre:** 20.6mm

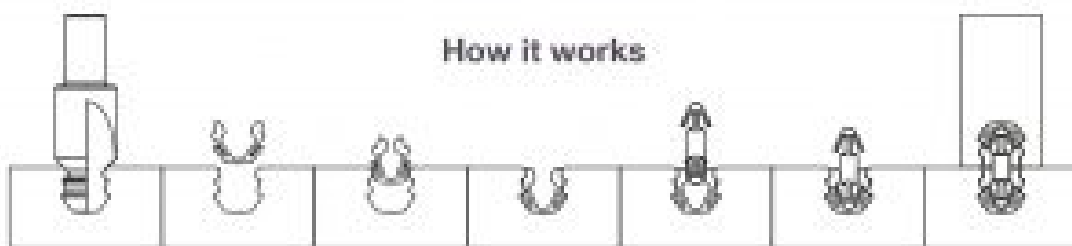
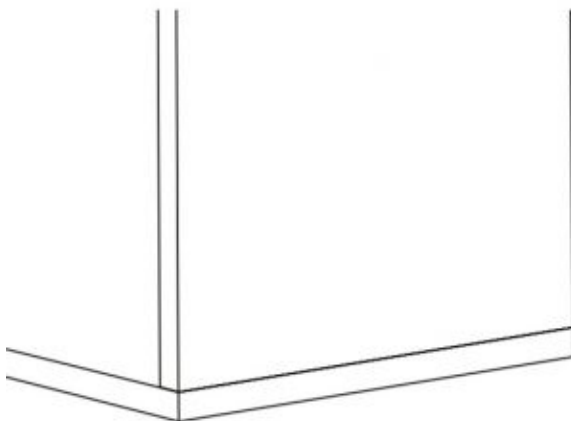
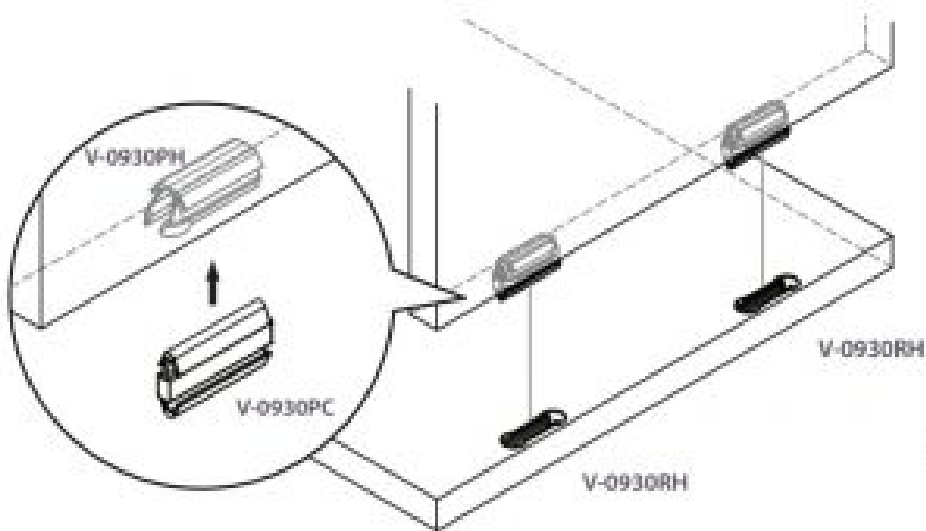
**Rotation Speed:** CNC speeds vary with different materials. Maximum cutter rotation: 18,000.

### Housing





**Assembly – Simply push into place to connect**



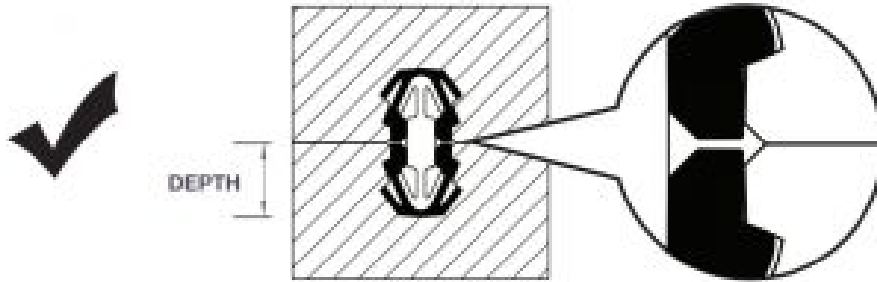
**Important! Set Depth Correctly**

## RECOMMENDED DEPTH TOLERANCES

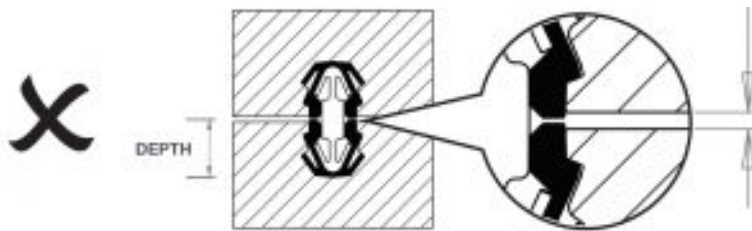
V-0930

9.5mm, +/- 0.5mm

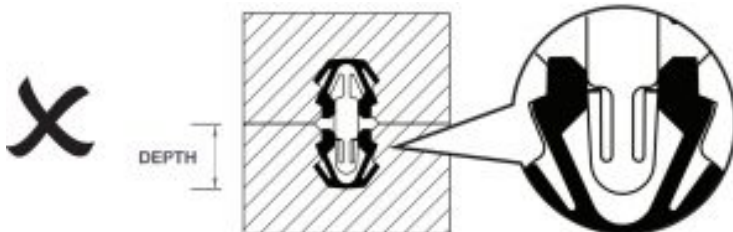
Set the depth tolerance to 9.5mm and adjust +/- 0.5mm if required



Less than 9mm will create an open joint

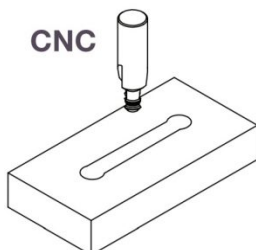


Greater than 10mm connector wing can not lock

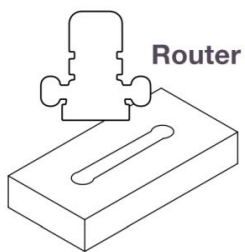


## Depth Setting Guide

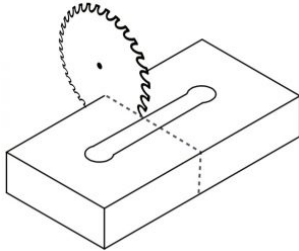
1. Make a long cut with your tooling. Approximately 200mm long and 9.5mm depth



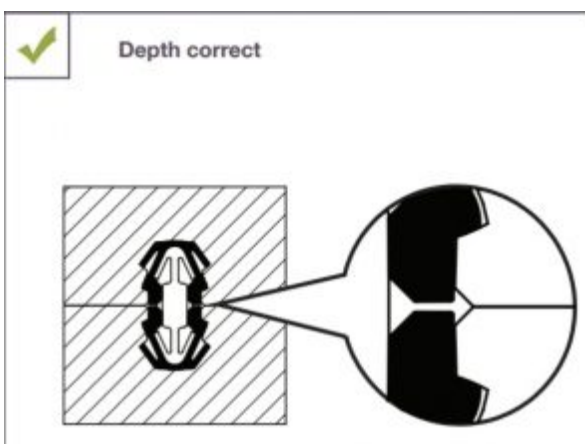
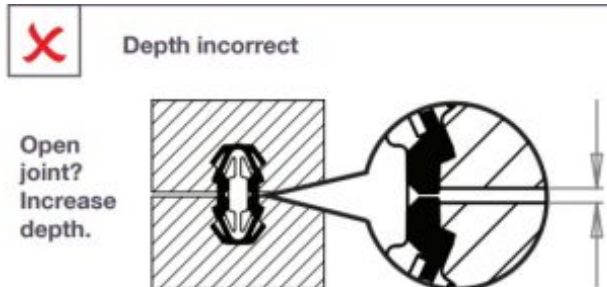
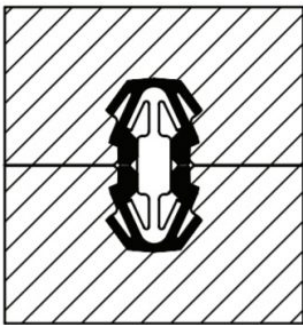


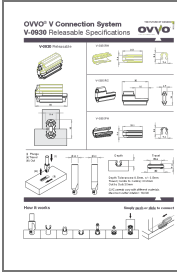


2. Cut in half



3. Insert Connection Set and check depth.





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References

- [OVVO® | The Future of Connection](#)