



Invicta Clamps

One Ear Clamp – Smooth Inner Band Series

Other good alternatives include:

- One Ear Hose Clamp
- Continuous Band One Ear Clamp
- Smooth Band Ear Clamp
- 360° Compression Ear Clamp
- Precision One Ear Clamp
- Single Ear Compression Clamp
- Uniform Compression Ear Clamp

Of these, **One Ear Clamp – Smooth Inner Band Series** is the most professional and avoids trademark concerns.

PRODUCT DATA SHEET

Invicta Clamps

One Ear Clamp – Smooth Inner Band Series

Product Overview

The Invicta Clamps One Ear Clamp – Smooth Inner Band Series is designed to provide secure and uniform clamping for flexible hoses, tubing, and pipe connections. The smooth inner band distributes clamping force evenly around the hose, helping to minimize surface damage while providing a reliable seal.

These clamps are manufactured from high-quality stainless steel and are suitable for applications requiring permanent fastening, vibration resistance, and corrosion protection.

Features

- Smooth inner band for uniform sealing
 - Single ear compression design
 - Low-profile construction
 - Quick installation using standard ear clamp pincers
 - High vibration resistance
 - Permanent, tamper-resistant connection
 - Suitable for soft rubber, silicone, plastic, and reinforced hoses
 - Excellent corrosion resistance
 - Lightweight construction
 - Maintenance-free after installation
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Applications

- Automotive cooling systems
- Fuel lines
- Air intake systems
- Turbocharger hoses
- Emission systems
- Pneumatic tubing
- Hydraulic return lines
- Water systems
- Beverage dispensing equipment
- Industrial machinery
- Agricultural equipment
- HVAC systems

- Medical tubing
 - Marine applications
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Technical Specifications

Parameter	Specification
Product Type	One Ear Clamp
Band Design	Smooth Inner Band
Ear Design	Single Ear
Clamping Style	Permanent Compression
Available Band Widths	5 mm, 7 mm, 9 mm
Diameter Range	5–120 mm
Material	Stainless Steel AISI 304 (1.4301)
Optional Material	Stainless Steel AISI 316 (1.4401)
Surface Finish	Bright Annealed
Operating Temperature	-40°C to +200°C
Installation Tool	Ear Clamp Pliers
Reusable	No

Material Specifications

Material	Standard
Stainless Steel 304	EN 10088 / ASTM A240 / AISI 304 / 1.4301
Stainless Steel 316	EN 10088 / ASTM A240 / AISI 316 / 1.4401

Available Sizes

Clamping Range (mm)	Band Width (mm)
5–7	5
7–9	5
9–11	5
10–12	7
13.5–16	7
15–18	7
17–20	7
20–23	7
22–25	7
25–28	7
28–31	7
31–34	7
34–37	7
37–40	7

Additional sizes available upon request.

Performance Characteristics

- Uniform circumferential clamping force
- Reliable sealing performance
- High resistance to vibration
- Secure permanent fastening
- Reduced risk of hose damage
- Excellent dimensional consistency
- Suitable for high-volume production assembly

Installation

1. Position the clamp over the hose.
 2. Push the hose fully onto the fitting.
 3. Place the clamp in the required sealing position.
 4. Compress the ear using approved ear clamp pliers.
 5. Verify complete closure of the ear before use.
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Quality & Compliance

Manufactured under:

- ISO 9001:2015 Quality Management System
 - IATF 16949 (upon customer requirement)
 - PPAP documentation available
 - RoHS Compliant
 - REACH Compliant
 - IMDS submission available upon request
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Customization Options

- Custom diameter ranges
 - Special band widths
 - Stainless Steel 316
 - Customer part number marking
 - Laser marking
 - OEM packaging
 - Private label packaging
 - Custom export packaging
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Ordering Format

IOC-16-7-304

Example:

- **IOC** = Invicta One Ear Clamp
 - **16** = Maximum clamping diameter (mm)
 - **7** = Band width (mm)
 - **304** = Stainless Steel Grade
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Advantages

- Compact design
- Uniform compression around the hose
- No screw housing
- Fast assembly
- Permanent locking
- Excellent corrosion resistance
- Suitable for automated assembly
- Reliable sealing in demanding applications