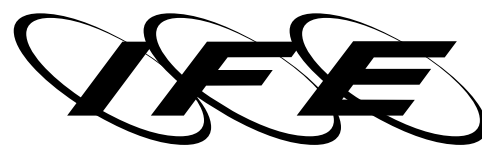


IFE is the Distributors choice for clamping and connecting products



Primary markets served include:

- Automotive
- Marine
- Heavy equipment
- Heavy truck
- ATV's
- Lawn and garden
- Agriculture
- Fluid storage
- Material handling
- Power generation
- Irrigation



IFE's experience has built strong relationships on partnership and mutual respect. We never bypass distributors by contacting their customers directly, or expect them to know IFE products as well as we do. When we work together and combine our strengths, everybody wins... especially the customer. And small and medium-size customers get the same level of technical support we offer billion-dollar companies.



IFE provides transportation industry with connection and protection products



Primary markets served include:

- Automobiles
- Heavy trucks
- Buses
- Heavy equipment



IFE has a long history in the automotive industry. In 1925, Volvo approached AB Pentaverken, an IFE owned company that produced the famous Penta marine engine, to develop and produce the first engine for Volvo cars.

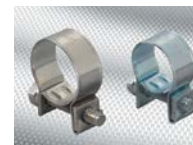
IFE produced the 4 cylinder, 28 HP automobile engine along with the Penta marine engines, until exiting the engine business in the 1930s.

Today, IFE supplies connection and protection products for automobiles, heavy trucks, buses and motorcycles for both OE and aftermarket.

IFE offers products for traditional gasoline and diesel engines as well as electric (both battery and hydrogen) and CNG powered propulsion.

Contact us today and put our decades of experience to work for you.

IFE Americas is a global provider of sealing and retaining solutions to meet customer needs. We offer a wide range of clamps, couplings, straps, and sleeves, with in-house testing facilities and technical support.





IFE Product Range

IFE Hose clamps

- IFE-AS2 are commonly used for heavy truck and heavy equipment air intake systems and are available in multiple bandwidths.
- IFE-GS are designed to efficiently convert torque to clamping force while the band is non-perforated and has rolled edges so it does not damage hoses. IFE-GS clamps are also available with a built in spring for applications that require a dynamic clamp that can compensate for expansion and contraction due to thermal cycling as well as compression set.

IFE Mounting Products

- IFE-VMC are ideal for mounting CNG or hydrogen fuel cells while IFE-MS are used to hold tanks and large components securely. Let us work with you to select from our standard components and tools to develop a customized solution for your application.

IFE Protection Sleeves

- IFE offers a full range of heat shrinkable protection sleeves for automotive cables, wiring harnesses, rubber hose and plastic tubing protection.

Hose Clamps



IFE-AS2
American-Style Hose Clamps

IFE-GS
German-Style Hose Clamps

IFE-GS WS
German-Style With Spring
Hose Clamps

Mounting Products



IFE-VMC
Vessel Mounting Clamps

IFE-MS
Mounting Straps

Protection Sleeves



IFE-HFT, IFE-DWT, IFE-DWT-RO
Heat Shrinkable Sleeves



IFE-RSF
Woven Heat Shrinkable Sleeves



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IFE Product Range

IFE offers the following products in many sizes and materials.

- IFE-SS Swedish style worm drive clamps are made with all 316 stainless steel. The clamps have a solid band with a smooth underside and rounded edges to protect the hose against damage and ensure a perfect sealing. The housings are formed from a tube for strength and the one piece design insures high destruction torques and reliability.
- IFE-HD Heavy-duty European style 1 and 2-bolt hose clamps are suitable for hoses with steel reinforcement and high shore hardness. The 2-bolt version is excellent for larger diameters to insure even clamping force distribution. The band edges are rounded so that high clamping forces can be applied without damaging the hose.
- IFE-MC Mini clamps feature 9 mm bandwidth with rolled edges and that prevent hose damage. The bridge under the housing protects the hose while optimizing clamping force distribution. This clamp is an excellent choice for small diameter hoses and is available in all 304 stainless steel material.

Hose Clamps



*IFE-SS
Swedish-Style
Worm Drive Clamps*



*IFE-HD
Heavy-duty
Euro Style Clamps*

*IFE-MC
Mini Clamps*



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Over 100 years of trusted marine industry experience



Born in the Swedish Archipelago in 1903, IFE developed their first marine inboard engine over 100 years ago. Named Penta, to represent the five engineers who worked to develop the original one cylinder, three HP engine. In 1916 the IFE owned AB Pentaverken produced Penta outboard motors in Sweden and sold them worldwide in the 1920s. AB Pentaverken also developed and produced automobile engines for Volvo before IFE exited the engine business in 1931.



IFE Group began making components for fluid systems in the 1960s. Never losing our passion for the marine industry, today IFE hose clamps and coupling products are found in pleasure and work boats worldwide. Our Swedish-style, worm-drive, hose clamps in all 316 stainless steel construction are used by OEM boat builders and refitters.

IFE clamps are available for purchase through our network of master distributors. Contact us today, we are happy to connect you with one.



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IFE-GS

Worm Drive Clamps German style



IFE German style worm drive clamps deliver higher clamping force than American style clamps at less torque. That means heavy equipment, recreational vehicles, and lawn and garden equipment can often use one of these 9 mm band width clamps instead of a 1/2" American style clamp at substantial savings.

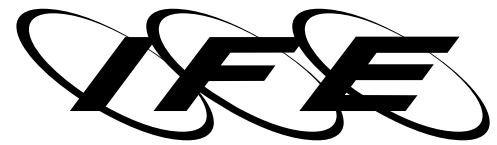
- 9 mm and 12 mm (heavy duty) band widths
- high clamping force
- rolled edges minimize hose abrasion
- non-slotted band eliminates hose extrusion
- best option for performance versus price
- corrosion-resistant W3 and W4 stainless steel (samples available)



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IFE-GS

Worm Drive Clamps German style



9 mm Band Width

W3 Part No.	W4 Part No.	Size in mm
12210127030016	12210127040016	8-16
12210127030020	12210127040020	12-20
12210127030023	12210127040023	13-23
12210127030027	12210127040027	16-27
12210127030032	12210127040032	20-32
12210127030040	12210127040040	25-40
12210127030045	12210127040045	30-45
12210127030050	12210127040050	35-50
12210127030057	12210127040057	33-57
12210127030060	12210127040060	40-60
12210127030065	12210127040065	45-65
12210127030070	12210127040070	50-70
12210127030080	12210127040080	60-80
12210127030090	12210127040090	70-90
12210127030100	12210127040100	80-100
12210127030110	12210127040110	90-110
12210127030120	12210127040120	100-120

All screws have 7 mm hex head

All sizes are available in W4 austenitic stainless steel or the more economical W3 ferritic stainless steel.
Special sizes and other materials are available for high-volume orders.

12 mm Band Width

W3 Part No.	W4 Part No.	Size in mm
12210227030027	12210227040027	16-27
12210227030032	12210227040032	20-32
12210227030040	12210227040040	25-40
12210227030045	12210227040045	30-45
12210227030050	12210227040050	35-50
12210227030060	12210227040060	40-60
12210227030070	12210227040070	50-70
12210227030080	12210227040080	60-80
12210227030090	12210227040090	70-90
12210227030100	12210227040100	80-100
12210227030110	12210227040110	90-110
12210227030120	12210227040120	100-120
12210227030130	12210227040130	110-130
12210227030140	12210227040140	120-140
12210227030150	12210227040150	130-150
12210227030160	12210227040160	140-160
12210227030170	12210227040170	150-170
12210227030180	12210227040180	160-180
12210227030190	12210227040190	170-190
12210227030200	12210227040200	180-200
12210227030210	12210227040210	190-210
12210227030220	12210227040220	200-220

All screws have 7 mm hex head



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IFE-AS

Worm Drive Clamps American Style



IFE-AS clamps are the traditional hose clamp design that is most popular in the Americas. IFE-AS clamps have a crimped or interlocked construction so clamps are not welded.

- Available in 1/2" (12.7 mm) bandwidth with 5/16" (8 mm) screw head as well as a micro version in 5/16" (8 mm) bandwidth and 1/4" (6.3 mm) screw head
- Stock material options include W2 (economy stainless steel band and housing with zinc plated carbon steel screw) and W4 all 300 series stainless steel.
- Liner version of the clamp is available with an inner liner that protects hoses and soft components from damage due to the slots in the band.
- Excellent design for holding signs, flags, small vessels and filters securely in place.



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IFE-AS

Worm Drive Clamps American Style



- Other material options exist including W5 all 316 stainless steel and W3 (all economy stainless steel screw, band and housing)
- Clamps meet SAE J1508 Type F hose clamp specification
- Custom sizes with shorter or extended thread patterns are also available.

5/16" (8 mm) Bandwidth, 1/4" (6.3 mm) Screw Head

W2 Part No.	W4 Part No.	Clamping Range		SAE Size
		inch	mm	
122 114 2602 0016	122 114 2604 0016	7/32-5/8	6-16	4
122 114 2602 0020	122 114 2604 0020	7/16-25/32	11-20	6
122 114 2602 0023	122 114 2604 0023	1/2-7/8	13-23	8
122 114 2602 0027	122 114 2604 0027	9/16-1-1/16	14-27	10
122 114 2602 0032	122 114 2604 0032	11/16-1-1/4	18-32	12



Larger sizes available upon request

1/2" (12.7 mm) Bandwidth, 5/16" (8 mm) Screw Head

W2 Part No.	W4 Part No.	Clamping Range		SAE Size
		inch	mm	
122 113 2802 0019	122 113 2804 0019	1/2-13/16	13-19	6
122 113 2802 0023	122 113 2804 0023	7/16-7/8	11-23	8
122 113 2802 0027	122 113 2804 0027	9/16-1-1/16	14-27	10
122 113 2802 0032	122 113 2804 0032	11/16-1-1/4	18-32	12
122 113 2802 0038	122 113 2804 0038	11/16-1-1/2	19-38	16
122 113 2802 0044	122 113 2804 0044	13/16-1-3/4	21-44	20
122 113 2802 0051	122 113 2804 0051	1-1/16-2	27-51	24
122 113 2802 0057	122 113 2804 0057	1-5/16-2-1/4	33-57	28
122 113 2802 0064	122 113 2804 0064	1-9/16-2-1/2	40-64	32
122 113 2802 0070	122 113 2804 0070	1-13/16-2-3/4	46-70	36
122 113 2802 0076	122 113 2804 0076	2-1/16-3	52-76	40
122 113 2802 0083	122 113 2804 0083	2-5/16-3-1/4	59-83	44
122 113 2802 0089	122 113 2804 0089	2-9/16-3-1/2	65-89	48
122 113 2802 0095	122 113 2804 0095	2-13/16-3-3/4	71-95	52
122 113 2802 0102	122 113 2804 0102	3-1/16-4	78-102	56
122 113 2802 0108	122 113 2804 0108	3-5/16-4-1/4	84-108	60
122 113 2802 0114	122 113 2804 0114	3-9/16-4-1/2	90-114	64
122 113 2802 0127	122 113 2804 0127	4-1/8-5	103-127	72
122 113 2802 0140	122 113 2804 0140	4-5/8-5-1/2	118-140	80
122 113 2802 0152	122 113 2804 0152	5-1/8-6	130-152	88
122 113 2802 0165	122 113 2804 0165	5-5/8-6-1/2	143-165	96
122 113 2802 0178	122 113 2804 0178	6-1/8-7	157-178	104



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IFE-MC Mini Clamps



The IFE Mini Clamp features rolled band edges, preventing hose damage. The bridge under the housing optimizes hose protection and creates a more even clamping force distribution. The nut is retained even in cases when the 7 mm hexagon head screw is removed. The screw comes with a hexagon head. Band width 9 mm. This clamp is available in sizes from 6-8 mm up to 24-26 mm. It offers many benefits:

- W1 - Free from chromium VI and will withstand a minimum of 72 hours salt spray
- Available in all 300 series stainless steel
- Made according to DIN 3017
- Clamp is well suited for small diameter joints with thin wall hose like fuel hoses



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IFE-MC

Mini Clamps



Material – Code: 4 (304 Stainless)

IFE Part Number	IFE Description	Band Width	Screw Head
12211027040008	MC 6-8 mm	9	7
12211027040009	MC 7-9 mm	9	7
12211027040010	MC 8-10 mm	9	7
12211027040011	MC 9-11 mm	9	7
12211027040012	MC 10-12 mm	9	7
12211027040013	MC 11-13 mm	9	7
12211027040014	MC 12-14 mm	9	7
12211027040015	MC 13-15 mm	9	7
12211027040016	MC 14-16 mm	9	7
12211027040017	MC 15-17 mm	9	7
12211027040018	MC 16-18 mm	9	7
12211027040019	MC 17-19 mm	9	7
12211027040020	MC 18-20 mm	9	7
12211027040021	MC 19-21 mm	9	7
12211027040022	MC 20-22 mm	9	7

Material – Code: 1 (Carbon Steel)

IFE Part Number	IFE Description	Band Width	Screw Head
12211027010008	MC 6-8 mm	9	7
12211027010009	MC 7-9 mm	9	7
12211027010010	MC 8-10 mm	9	7
12211027010011	MC 9-11 mm	9	7
12211027010012	MC 10-12 mm	9	7
12211027010013	MC 11-13 mm	9	7
12211027010014	MC 12-14 mm	9	7
12211027010015	MC 13-15 mm	9	7
12211027010016	MC 14-16 mm	9	7
12211027010017	MC 15-17 mm	9	7
12211027010018	MC 16-18 mm	9	7
12211027010019	MC 17-19 mm	9	7
12211027010020	MC 18-20 mm	9	7
12211027010021	MC 19-21 mm	9	7
12211027010022	MC 20-22 mm	9	7

Due to our program of continuous improvement, specifications may be subject to change.

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IFE-SS

Worm Drive Clamps Swedish style



For optimum performance in critical applications, specify IFE's Swedish-style worm-drive hose clamps. These premium clamps are counted on around the world — on land and sea — for their strength, dependability and long service life.

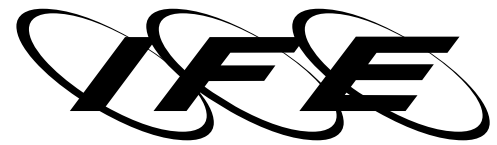
- 1-piece tubular housing (non-welded) for maximum strength
- Smooth I.D. reduces hose damage and maximizes conversion of torque to clamping force
- Rolled edges protect hose from abrasion
- All AISI 316 stainless steel (band, housing and screw) for marine applications
- The choice of major yacht-makers in North America, Europe and Asia
- 2 band widths (10mm,12mm) and a wide range of diameters



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IFE-SS

Worm Drive Clamps Swedish style



10mm Bandwidths - W5

IFE Part Number	Description	Diameter (mm)	Screw Head (mm)	Band Width (mm)
12211127050014	SS 8-14 / 10 7 5	8-14	7	9.7
12211127050017	SS 11-17 / 10 7 5	11-17	7	9.7
12211127050020	SS 13-20 / 10 7 5	13-20	7	9.7
12211127050024	SS 15-24 / 10 7 5	15-24	7	9.7
12211127050028	SS 19-28 / 10 7 5	19-28	7	9.7
12211127050032	SS 22-32 / 10 7 5	22-32	7	9.7
12211127050038	SS 26-38 / 10 7 5	26-38	7	9.7
12211127050044	SS 32-44 / 10 7 5	32-44	7	9.7
12211127050050	SS 38-50 / 10 7 5	38-50	7	9.7
12211127050056	SS 44-56 / 10 7 5	44-56	7	9.7
12211127050065	SS 50-65 / 10 7 5	50-65	7	9.7
12211127050075	SS 58-75 / 10 7 5	58-75	7	9.7
12211127050085	SS 60-85 / 10 7 5	60-85	7	9.7

All sizes are stock items.

12mm Bandwidth - W5

IFE Part Number	Description	Diameter (mm)	Screw Head (mm)	Band Width (mm)
12211227050024	SS 15-24 / 12 7 5	15-24	7	11.7
12211227050028	SS 19-28 / 12 7 5	19-28	7	11.7
12211227050032	SS 22-32 / 12 7 5	22-32	7	11.7
12211227050038	SS 26-38 / 12 7 5	26-38	7	11.7
12211227050044	SS 32-44 / 12 7 5	32-44	7	11.7
12211227050050	SS 38-50 / 12 7 5	38-50	7	11.7
12211227050056	SS 44-56 / 12 7 5	44-56	7	11.7
12211227050065	SS 50-65 / 12 7 5	50-65	7	11.7
12211227050075	SS 58-75 / 12 7 5	58-75	7	11.7
12211227050085	SS 68-85 / 12 7 5	68-85	7	11.7
12211227050095	SS 77-95 / 12 7 5	77-95	7	11.7
12211227050101	SS 95-101 / 12 7 5	95-101	7	11.7
12211227050112	SS 87-112 / 12 7 5	87-112	7	11.7
12211227050120	SS 77-120 / 12 7 5	77-120	7	11.7
12211227050138	SS 104-138 / 12 7 5	104-138	7	11.7
12211227050150	SS 123-150 / 12 7 5	123-150	7	11.7
12211227050165	SS 130-165 / 12 7 5	130-165	7	11.7
12211227050180	SS 150-180 / 12 7 5	150-180	7	11.7
12211227050205	SS 175-205 / 12 7 5	175-205	7	11.7
12211227050231	SS 200-231 / 12 7 5	200-231	7	11.7
12211227050256	SS 226-256 / 12 7 5	226-256	7	11.7
12211227050282	SS 251-282 / 12 7 5	251-282	7	11.7
12211227050307	SS 277-307 / 12 7 5	277-307	7	11.7



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