

Assembly equipment

Hose assembly machines and tooling

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Hose assembly machines and tooling

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Core crimp machines

With the Eaton-branded core crimp machine portfolio, all customers have access to the same crimp machines and tooling. This simplified and improved offering includes lower cost options as well as both positive stop and variable machines to meet all of your application needs. Compare our new offering of crimp machines and their associated features to understand which crimper is best for you.



Crimp machine comparison chart

	ET1187	ET1000	FT1380	T-420
Production volume	Low	Low	Medium	Medium
Type	Variable	Positive stop	Variable	Positive stop
Capability-braided (up to)	1 ¼"	1"	1 ¼"	1 ¼"
Capability-spiral (up to)	1"	1"	1 ¼"	1 ¼"
Capability-industrial (up to)	1 ¼"	1"	1 ¼"	1 ¼"
Application	Portable, job shops, maintenance departments	Portable, job shops, maintenance departments	Hose distributors, small assembly shops	Hose distributors, small assembly shops, factory, construction, mines
*Pump options	110v, air/hydraulic, 12v, hand pump	110v, air/hydraulic, 12v, hand pump	115v, 230v	110v, 220v

*Capabilities based on Eaton core hose and fitting products

*See pump ordering options for each machine for specific kit numbers

Core crimp machines



Crimp machine comparison chart

FT1390

ET4001

ET5050

Production volume	Medium/high	Medium	High
Type	Variable	Positive stop	Variable
Capability-braided (up to)	2"	2"	2"
Capability-spiral (up to)	2"	2"	2"
Capability-industrial (up to)	2"	2"	6"
Application	Hose distributors, assembly shops	Hose distributors, assembly shops, construction, mines	Industrial production facility, specialty
*Pump options	115v, 230v	220v	230v, 380v, 400v, 420v, 440v, 460v, 480v

*Capabilities based on Eaton core hose and fitting products

*See pump ordering options for each machine for specific kit numbers

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Portable crimp machines

ET1187

The ET1187 machine is our most economical variable crimp machine to date. It boasts a broad crimp capability with a new “ease-of-use” that is sure to excite hose assemblers in the field.

This machine is designed to easily adjust to Eaton’s core products. It’s as simple as turning the collar to the correct color to match the layline on the hose, adjust the ring so that the correct size dot aligns with the correct size line on the collar and the machine is set for the correct crimp. Load the correct crimp die based on the crimp die chart attached to the machine, and the machine is ready to crimp.



Specifications

Dimensions:
22” high x 9” wide x 11” deep

Weight: 65 lbs

Available with bench and truck mount brackets



Bench mount Truck mount

Capabilities

Braided hose: -4 thru -20

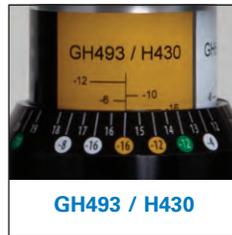
Spiral hose: -6 thru -16

Features

- Can be mounted on service vehicles or bench tops
- Can be used remotely, 65lbs
- Can be powered with virtually any 10,000 psi hydraulic power source (minimum of 36 cu. inch pump reservoir capacity is required)
- Utilizes existing FT1380 dies

Benefits

- Color-coded collar for core hose products makes setup fast and easy
- Easily transported between job sites
- Versatile power source options
- Lower investment cost than other variable crimpers
- Comes with high efficiency PTFE grease



Tooling options

Die cage part #	Tooling			Tooling packages	
	1 wire braid Z/Winner	2 wire braid Z/Winner	Spiral hose 4S fitting	ET4020TP-0002	ET4020TP-0003
FT1380-200-M150	-4	-4		X	X
FT1380-200-M180	-6	-4†		X	X
FT1380-200-M210	-8	-6	-6	X	X
FT1380-200-M240	-10	-8	-8††	X	X
FT1381-200-M280	-12	-10, -12†	-8, -10	X	X
FT1380-200-M320		-12	-12	X	X
FT1380-200-M370	-16	-16		X	X
FT1380-200-M420			-16		X
FT1382-200-M465	-20	-20			X

†Die cage used to crimp Winner hose with two piece Winner fitting

††Die cage used to crimp Winner hose with 4S fitting

Note: Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp

Portable crimp machines

ET1187

Crimp machine part numbers

ET1187-001 Bench mount machine, no pump, no tooling (includes bracket)—for premium hose GH681/H180, GH781/H280, GH493/H430

ET1187-002 Truck mount machine, no pump, no tooling (includes bracket)—for premium hose GH681/H180, GH781/H280, GH493/H430

ET1187-003 Bench mount machine, no pump, no tooling (includes bracket)—for Winner hose EC115, EC215, EC415

ET1187-004 Truck mount machine, no pump, no tooling (includes bracket)—for Winner hose EC115, EC215, EC415

ET1187C-0017 Bench mount bracket (separate)

ET1187C-0019 Truck mount bracket (separate)

*Pump part numbers

ET1000PK-001 2-Stage hand pump

ET1000PK-002 Air/hydraulic pump

ET1000PK-003 110v electric pump

ET1000PK-004 12v DC electric pump

*These pump kits include the pump, connecting hose assembly, and all of the adapters necessary to connect the pump to the ET1187 crimp machine

Accessory part numbers

T-400-G 1.5 oz. tube, high efficiency PTFE grease

FF91455 16 oz. can, high efficiency PTFE grease

ET1187C-0008PR Replacement barrel for the ET1187-001 or ET1187-002 machine (for premium hose GH681/H180, GH781/H280, GH493/H430)

ET1187C-0008WR Replacement barrel for the ET1187-003 or ET1187-004 machine (for Winner hose EC115, EC215, EC415)

ET1187C-0009PR Replacement knob for the ET1187-001 or ET1187-002 machine (for premium hose GH681/H180, GH781/H280, GH493/H430)

ET1187C-0009WR Replacement knob for the ET1187-003 or ET1187-004 machine (for Winner hose EC115, EC215, EC415)

Ordering options

Place your order for the desired machine, pump, and tooling separately, following the chart below.

Tooling can also be ordered a la carte.

Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp.

Select your base machine	Select your pump kit	Select your tooling package
ET1187-001 Base machine with bench mount only	ET1000PK-003 110v pump kit	ET4020TP-0002
ET1187-002 Base machine with truck mount only	ET1000PK-002 A/H pump kit	ET4020TP-0003
ET1187-003 Base machine with bench mount only (for Winner hose EC115, EC215, EC415)	ET1000PK-004 12v pump kit	
ET1187-004 Base machine with truck mount only (for Winner hose EC115, EC215, EC415)	ET1000PK-001 Hand pump kit	

Note: All available pump kits shown include hose assembly and are CSA compliant

Assembly equipment

Hose assembly machines and tooling

Portable crimp machines

ET1000

The portable ET1000 crimp machine boasts a broad crimp capability with an ease-of-use that is sure to please hose assemblers. With four pump options—air/hydraulic, hand, 110v, or 12v DC—this portable machine can travel to the worksite. The machine comes equipped with a stand pre-drilled for mounting to a workbench or table-top.



Tooling options

Tooling	Tooling capabilities			Tooling packages	
	1 wire braid	2 wire braid	Spiral hose 4S	*ET1000TP-1002 New placement package	*ET1000TP-1001 Conversion package
ET313DC-4Z	-4	-4		X	X
ET313DC-5Z	-5	-5			
ET313DC-6Z	-6	-6		X	X
ET313DC-8Z	-8	-8		X	X
ET313DC-10Z	-10	-10			
ET1000DC-12Z	-12	-12		X	X
ET1000DC-16Z	-16	-16		X	X
ET313DC-4S6			-6		
ET313DC-4S8			-8	X	X
ET313DC-4S10			-10		
ET1000DC-4S12			-12	X	X
ET1000DC-4S16			-16	X	X

*ET1000TP-1002 includes the following spacer rings—ET425SR-150A, ET313SR-090A, ET313SR-030D

*ET1000TP-1002 includes pusher extension—ET1000C-0012

*ET1000TP-1002 includes adapter ring—ET1000AR-001

*ET1000TP-1001 includes the following spacer rings—ET425SR-150A, ET313SR-090A

Note: Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp

Specifications

Dimensions:

22" high x 16" wide x 14" deep

Weight:

70 lbs
Allows for work bench or table top mounting

Capabilities

Braided hose: -4 thru -16

Spiral hose: -6 thru -16

Features

- Portable, positive stop, economical
- Can be mounted on service vehicles
- Utilizes 2-piece collet assemblies
- Spacer rings control the crimp diameter

Benefits

- Sliding pusher allows for easier fitting insertion into the machine
- Simple positive-stop crimp diameter control system for consistent crimping time after time with no operator adjustments required
- Easily transported between job sites
- Versatile power source options
- Electricity is required only when using an electric pump
- Comes with high efficiency PTFE grease

Portable crimp machines

ET1000

Crimp machine part numbers

ET1000-001 Base machine

Crimp machine and tooling package part numbers

ET1000-020 Contains ET1000 crimper, 110v pump kit, and ET1000TP-1002 tooling package

ET1000-021 Contains ET1000 crimper, air/hydraulic pump kit, and ET1000TP-1002 tooling package

*Pump part numbers

ET1000PK-001 Hand pump

ET1000PK-002 Air/hydraulic pump

ET1000PK-003 110 volt electric pump

ET1000PK-004 12 volt DC electric pump

*Pump kits contain hose assembly and fittings to attach pump to machine

Accessory part numbers

T-400-G 1.5 oz. tube high efficiency PTFE grease

FF91455 16 oz. can, high efficiency PTFE grease

ET1000 Ordering options

For your convenience, we have created one to two optimized machine and tooling package options for each of the core crimp machines. **If the available options do not meet your needs, place your order for the desired machine, pump, and tooling separately,** following the chart below.

Tooling can also be ordered a la carte. Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp.

Select your base machine	Select your pump kit	Select your tooling package	Order a machine package with tooling
ET1000-001 Base ET1000 Machine	ET1000PK-003 110v pump kit	ET1000TP-1002 New placement tooling package	ET1000-020
	ET1000PK-002 A/H pump kit	ET1000TP-1001 Conversion tooling package	ET1000-021
	ET1000PK-004 12v pump kit		
	ET1000PK-001 Hand pump kit		

or

Note: All available pump kits shown include hose assembly and are CSA compliant

Assembly equipment

Hose assembly machines and tooling

General purpose crimp machines

FT1380

The FT1380 crimp machine from Eaton crimps all your hose needs up to and including -20 spiral wire hose. The FT1380 is electronically controlled to give fast, accurate crimps the first time and every time you need a hose assembly. The electronic keypad is easy to adjust, with up to 10 programmable crimp settings. For hose styles and sizes used less frequently, simply enter the 3 digit code of that hose.



Tooling options

Tooling	Tooling capabilities			Tooling packages	
	1 wire braid Z/Winner	2 wire braid Z/Winner	Spiral hose 4S fitting	ET4020TP-0002	ET4020TP-0003
FT1380-200-M150	-4	-4		X	X
FT1380-200-M180	-6	-4 [†]		X	X
FT1380-200-M210	-8	-6	-6	X	X
FT1380-200-M240	-10	-8	-8 ^{††}	X	X
FT1381-200-M280	-12	-10,-12 [†]	-8,-10	X	X
FT1380-200-M320		-12	-12	X	X
FT1380-200-M370	-16	-16		X	X
FT1380-200-M420			-16		X
FT1382-200-M465	-20	-20	-20		X

[†]Die cage used to crimp designated hose diameter with two piece Winner fitting

^{††}Die cage used to crimp Winner hose with 4S fitting

Note: Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp

Crimp machine part numbers

FT1380-115 Base machine with 115v pump

FT1380-115CSA Base machine with 115v pump, CSA approved

FT1380-230 Base machine with 230v pump

FT1380-230CSA Base machine with 230v pump, CSA approved

Crimp machine and tooling package part numbers

FT1380-115-8 Contains FT1380 crimper, 115v pump, and ET4020TP-0003 tooling package

Pump part numbers

All pumps are included with machine purchase. To review machine and pump package options please refer to the ordering options on the following page.

Specifications

Dimensions:

28.5" high x 12.75" wide x 25.75" deep

Weight: 238 lbs

Allows for work bench or table top mounting

Capabilities

Braided hose: -4 thru -20

Spiral hose: -6 thru -20

Features

- User-friendly operation to minimize training and mistakes
- Pre-set crimp settings and simple die cage insertion reduce setup time
- Electronic controls for minimal maintenance
- Upright design for easy hose insertion
- Compact design that requires little space

Benefits

- Easy and quick to electronically enter crimp settings
- Can pre-program 10 most popular crimp settings
- Die cages easily slip in and out of machine
- Machine capable of swaging thermoplastic hose and hose fittings
- Comes with high efficiency PTFE grease

General purpose crimp machines

FT1380

Accessory part numbers

FT1380-2-4 Optional die holder kit—kit includes 4 die holder plates each of which will hold 2 die cages. Holes are pre-drilled on base of FT1380 machine to accept these 4 plates.

FT1380-4 Optional fitting backstop—kit includes backstop and 5/32" hex wrench. The backstop allows the FT1380 to crimp PTFE hose and to be utilized for a fitting locator to increase efficiency.

FT1330-XL Z fitting locators

FT1380-XL 4S fitting locators

T-400-G 1.5 oz. tube high efficiency PTFE grease

FF91455 16 oz. can, high efficiency PTFE grease

FT1380-2-9 Die cage repair kits for FT1380-200-size, FT1380-275-size

Ordering options

For your convenience, we have created one to two optimized machine and tooling package options for each of the core crimp machines. **If the available options do not meet your needs, place your order for the desired machine, pump, and tooling separately,** following the chart below.

Tooling can also be ordered a la carte. Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp.

Select your base machine	Pump included	Select your tooling package	Order a machine package with tooling:
FT1380-115 Base machine with 115v pump	115v pump included	ET4020TP-0003	FT1380-115-8
FT1380-115CSA Base machine with 115v pump, CSA approved	115v pump included	ET4020TP-0002	
FT1380-230 Base machine with 230v pump	230v pump included		
FT1380-230CSA Base machine with 230v pump, CSA approved	230v pump included		

or

Note: Consider an alternative positive stop machine when crimping large quantities of -20 90 degree fittings

Specialty crimp die cages

Tooling	Tooling capabilities	
Die cage part #	Hose size	Hose style
FT1380-275-M070	-03	PTFE
FT1380-275-M090	-03 Synflex, -04, -05 PTFE	Synflex, PTFE
FT1380-275-M120	-04 Synflex, -06 PTFE	Synflex, PTFE
FT1382-275-M370	-16	Two-piece Winner
FT1382-275-M520	-20	6S
*FT1380-275-R5-04	-04	Truck and fuel 100R5
*FT1380-275-R5-05	-05	Truck and fuel 100R5
*FT1380-275-R5-06	-06	Truck and fuel 100R5
*FT1380-275-R5-08	-08	Truck and fuel 100R5
*FT1380-275-R5-10	-10	Truck and fuel 100R5
*FT1380-275-R5-12	-12	Truck and fuel 100R5
*FT1380-275-R5-16	-16	Truck and fuel 100R5
*FT1380-275-R5-20	-20	Truck and fuel 100R5

*Tooling above for use with Weatherhead hose and fittings

Assembly equipment

Hose assembly machines and tooling

General purpose crimp machines

T-420



The T-420 is a versatile machine ideal for your shop, factory, construction, and mine locations. Large capacity combined with lever-activated crimping gives you wide coverage and a quick and simple way to make factory-quality hose assemblies.

Tooling options

Tooling	Tooling capabilities			Tooling packages	
Die cage part #	1 wire braid	2 wire braid	Spiral hose 4S	T420TP-1001	*T420TP-1002 (for Winner hose with Z fittings)
ET425DC-4Z	-4	-4		X	X
ET425DC-5Z	-5	-5			
ET425DC-6Z	-6	-6		X	X
ET425DC-8Z	-8	-8		X	X
ET425DC-10Z	-10	-10			
ET425DC-12Z	-12	-12		X	X
ET425DC-16Z	-16	-16		X	X
ET425DC-20Z	-20	-20			X
ET425DC-4S6			-6		X
ET425DC-4S8			-8	X	X
ET425DC-4S10			-10		
ET425DC-4S12			-12	X	X
ET425DC-4S16			-16	X	X
ET425DC-4S20			-20	X	X

*T-420-26 die ring included with base machine

*T420TP-1001 includes spacer ring ET425SR-105A

*T420TP-1001 includes adapter ring ET425AR-14

*T420TP-1002 includes adapter ring ET425AR-14

*T420TP-1002 includes the following spacer rings—ET425SR-075A, ET425SR-030D, ET425SR-015A, ET425SR-060D, ET425SR-030A, ET425SR-045A, ET425SR-015D, ET425SR-060A, ET425SR-165A, ET425SR-105A, ET425SR-090A

Note: Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp

Specifications

Dimensions:

22" high x 10" wide x 20-1/2" deep

Weight: 210 lbs

Bench and C-40X cabinet mounting options

Capabilities

Braided hose: -4 thru -20

Spiral hose: -6 thru -20

Features

- Positive stop, economical
- Can be mounted on a bench or the C-40X cabinet
- Utilizes 2-piece collet assemblies
- Spacer rings control the crimp diameter

Benefits

- Simple positive-stop crimp diameter control system for consistent crimping time after time with no operator adjustments required
- Versatile power source options
- Comes with high efficiency PTFE grease

General purpose crimp machines

T-420

Crimp machine part numbers

T-420-1 Base T-420 machine

T-420-1CSA Base T-420 machine, CSA approved

Crimp machine and tooling package part numbers

T-420-001 Contains T-420 crimper, 220v pump kit, T420TP-1001 tooling package

T-420-002 Contains T-420 crimper, 110v pump kit, T420TP-1001 tooling package

T-420-001CSA Contains T-420 crimper, 220v pump kit, T420TP-1001 tooling package, CSA approved

T-420-002CSA Contains T-420 crimper, 110v pump kit, T420TP-1001 tooling package, CSA approved

Pump part numbers

ET420-007 110 volt electric pump

ET420-007CSA 110 volt electric pump, CSA approved

ET420-008 220 volt electric pump

ET420-008CSA 220 volt electric pump, CSA approved

Accessory part numbers

T-400-G 1.5 oz. tube high efficiency PTFE grease

FF91455 16 oz. can, high efficiency PTFE grease

Ordering options

For your convenience, we have created one to two optimized machine and tooling package options for each of the core crimp machines. **If the available options do not meet your needs, place your order for the desired machine, pump, and tooling separately,** following the chart below.

Tooling can also be ordered a la carte. Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp.

Select your base machine	Select your pump kit	Select your tooling package	Order a machine package with tooling
T-420-1 Base T-420 machine	ET420-007 110v pump	T420TP-1001	T-420-001
T-420-1CSA Base T-420 machine, CSA approved	ET420-007CSA 110v pump, CSA approved	T420TP-1002 (for Winner hose with Z fittings)	T-420-002
	ET420-008 220v pump		T-420-001CSA
	ET420-008CSA 220v pump, CSA approved		T-420-002CSA

or

Assembly equipment

Hose assembly machines and tooling

General purpose crimp machines

FT1390

The FT1390 crimp machine is a stand-alone machine and will crimp up to 2" braided, 2" four spiral, and 2" six spiral hydraulic hose assemblies. It boasts a programmable electronic keypad with 10 presets.

This keypad simplifies the hose crimping operation by allowing the machine operator to enter a predetermined setting for a specific hose type and size. The ten most often used crimp settings can be stored for one-touch retrieval. The machine will automatically crimp to the exact crimp diameter required for that hose type and size. The electronic crimp machine settings eliminate the need for spacers or shims in the crimping operation.



Tooling options

Tooling	Tooling capabilities				Tooling packages		
	Die cage part #	1 wire braid	2 wire braid	Spiral hose 4S	Spiral hose 6S	ET4040TP-0007	ET4040TP-0008
FT1307-200-M150	-4	-4				X	
FT1307-200-M180	-6					X	
FT1307-200-M210	-8	-6	-6			X	
FT1307-200-M240	-10	-8				X	
FT1307-200-M280	-12	-10, -12†	-8, -10			X	
FT1307-200-M320		-12				X	
FT1307-200-M370	-16	-16				X	
FT1307-200-M420	-20		-16			X	
FT1307-200-M465	-20	-20				X	
FT1307-200-M520	-24					X	
FT1307-200-M550	-32††	-24				X	
FT1307-200-M690	-32	-32				X	
FT1209-200-82			-12			X	
FT1209-200-15		-24†					
FT1209-200-46		-20†					
*FT1390-200-14			-20				X
*FT1390-200-20			-24				X
*FT1390-200-23			-32				X
*FT1390-200-15				-20			
*FT1390-200-16				-24			
*FT1390-200-21				-32			

*Die cages are hinged for ease of use when crimping large elbows

†Die cage used to crimp designated hose diameter with two piece Winner fitting

Note: Two piece Winner fitting not qualified with -32 core hose products (used with EC110-32 and GH506-32)

Note: Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp

Specifications

Dimensions:

49" high, 29" wide, 28" deep

Weight: 825 lbs

Capabilities

Braided hose: -4 thru -32

Spiral hose: -6 thru -32

Features

- Front-end loading design
- Electronic keypad control of crimp diameter
- Power return stroke, return limit control
- Drop-in tooling (crimp die cages)
- Backstop fitting locator
- Worklamp equipped

Benefits

- Easy and quick to electronically enter crimp setting
- Can pre-program 10 most popular crimp settings
- Die cages easily slip in and out of machine
- Comes with high efficiency PTFE grease

General purpose crimp machines

FT1390

Crimp machine part numbers

FT1390-115 Base machine with 115v pump

FT1390-115CSA Base machine with 115v pump, CSA approved

FT1390-230 Base machine with 230v pump

FT1390-230CSA Base machine with 230v pump, CSA approved

Crimp machine and tooling package part numbers

FT1390-115-12 Contains FT1390 crimper with 115v pump, and ET4020TP-0007 tooling package

Pump part numbers

All pumps are included with machine purchase. To review machine and pump package options please refer to the ordering options below.

Accessory part numbers

T-400-G 1.5 oz. tube high efficiency PTFE grease

FF91455 16 oz. can, high efficiency PTFE grease

Ordering options

For your convenience, we have created one to two optimized machine and tooling package options for each of the core crimp machines. **If the available options do not meet your needs, place your order for the desired machine, pump, and tooling separately,** following the chart below.

Tooling can also be ordered a la carte. Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/to find the tooling needed for all of the hoses and fittings you plan to crimp.

Select your base machine	Pump included	Select your tooling package	Order a machine package with tooling
FT1390-115 Base machine with 115v pump	FT1390-115 115v pump included	ET4040TP-0007	FT1390-115-12
FT1390-115CSA Base machine with 115v pump, CSA approved	FT1390-115CSA 115v pump included	ET4040TP-0008	
FT1390-230 Base machine with 230v pump	FT1390-230 230v pump included		
FT1390-230CSA Base machine with 230v pump, CSA approved	FT1390-230CSA 230v pump included		

or

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General purpose crimp machines

FT1390

Specialty crimp die cages

Tooling	Tooling capabilities	
Die cage part #	Hose size	Hose style
FT1209-200-14	-20	4S
FT1209-200-15	-20	6S
FT1209-200-16	-24	6S
FT1209-200-20	-24	4S
FT1209-200-21	-32	6S
FT1209-200-23	-32	4S
FT1307-200-M070	-03 PTFE	PTFE
FT1307-200-M090	-03 Synflex, -04, -05 PTFE	Synflex, PTFE
FT1307-200-M120	-04 Synflex, -06 PTFE	Synflex, PTFE

Note: Additional dies and die cage assemblies also available. Refer to website or contact Eaton

Note: FT1209-200-size & FT1390-200-size are for use with internal skive and 4S/6S fittings (SAE100R11 & SAE100R13 hose styles).

Note: FT1390-200-size dies cages are hinged to allow ease of use when crimping large elbows

Barrel crimp die cages

Die cage part #	Hose size	Hose style
FT1307-200-R5-04	-04	Truck and fuel 100R5
FT1307-200-R5-05	-05	Truck and fuel 100R5
FT1307-200-R5-06	-06	Truck and fuel 100R5
FT1307-200-R5-08	-08	Truck and fuel 100R5
FT1307-200-R5-10	-10	Truck and fuel 100R5
FT1307-200-R5-12	-12	Truck and fuel 100R5
FT1307-200-R5-16	-16	Truck and fuel 100R5
FT1307-200-R5-20	-20	Truck and fuel 100R5
FT1307-200-R5-24	-24	Truck and fuel 100R5
FT1307-200-R5-32	-32	Truck and fuel 100R5
*FT1392-200-R5-24	-24	Truck and fuel 100R5
*FT1392-200-R5-32	-32	Truck and fuel 100R5

*Hinged die cage

Note: Tooling above for use with Weatherhead hose and fittings

Die cage repair kits

Die cage part #	Order
FT1307-200-size	FT1307-2-9
FT1390-200-size	FT1390-2-9
FT1209-200-size	FT1209-2-9

We're changing the crimping game.



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crimp-specs

General purpose crimp machines

ET4001

The ET4001 is ideal for factory, high-performance machine operations, construction and mine locations. This machine offers the capabilities of crimping all of the crimp-style hose ends through -32. With this coverage, this heavy-duty crimper can handle all of your crimping needs.

Tooling options

Tooling	Tooling capabilities				Tooling packages			
	Die cage part #	1 wire braid	2 wire braid	Spiral hose 4S	Spiral hose 6S	*ET4001TP-1002 new placement package	*ET4001TP-1001 conversion package	*ET4001TP-1003 (for Winner hose with Z fittings)
ET525DC-4Z	-4	-4				X	X	X
ET525DC-5Z	-5	-5						X
ET525DC-6Z	-6	-6			X	X	X	X
ET525DC-8Z	-8	-8			X	X		X
ET525DC-10Z	-10	-10						X
ET525DC-12Z	-12	-12			X	X		X
ET525DC-16Z	-16	-16			X	X		X
ET525DC-20Z	-20	-20						X
ET525DC-24Z	-24	-24						X
ET525DC-32Z	-32	-32						
ET525DC-4S6			-6					X
ET525DC-4S8			-8		X	X		X
ET525DC-4S10			-10					
ET525DC-4S12			-12		X	X		X
ET525DC-4S16			-16		X	X		X
ET525DC-4S20			-20		X	X		X
ET575DC-4S24			-24		X	X		X
ET575DC-4S32			-32		X	X		X
ET525DC-6S20				-20				
ET575DC-6S24				-24				
ET575DC-6S32				-32				

*ET4000AR-001 adapter ring included with base machine

*ET4001TP-1002 includes the following spacer rings—ET575SR-135A, ET525SR-120A, ET525SR-180A, ET525SR-225A, ET525SR-240A

*ET4001TP-1002 includes adapter ring ET4000AR-002

*ET4001TP-1001 includes the following spacer rings—ET575SR-135A, ET525SR-120A

*ET4001TP-1003 includes the following spacer rings—ET525SR-030A, ET575SR-120A, ET575SR-015A, ET525SR-075A, ET525SR-015A, ET525SR-180A, ET525SR-090A, ET525SR-075D, ET525SR-045A, ET525SR-240A, ET525SR-015D, ET525SR-060A, ET525SR-195A, ET525SR-120A, ET525SR-105A

Note: Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp



Specifications

Dimensions:

29" high, 12" wide, 21" deep

Weight:

550 lbs

Bench or Work Table Mounting

Capabilities

Braided Hose: -4 thru -32

Spiral Hose: -6 thru -32

Features

- Shop / work table mount, positive stop
- Features a two-stage pump providing high flow at low pressure for fast ram approach and low flow at high pressure for actual crimping

Benefits

- Ideal for factory, construction and mine locations
- Crimps up to 2" 6 wire spiral hose
- Comes with high efficiency PTFE grease

Assembly equipment

Hose assembly machines and tooling

General purpose crimp machines

ET4001

Crimp machine part numbers

ET4001-004 Base ET4001 machine with hose kit, pump, work lamp

ET4001-004CSA Base ET4001 machine with hose kit, pump, work lamp, CSA approved

Pump part numbers

ET4001P-002 220v single phase electric pump

T-410-22 36" pump to press hose assembly

ET4001P-002CSA 220v single phase electric pump, CSA approved

Crimp machine and tooling package part numbers

ET4001-015 Contains ET4001 crimper, 220v pump kit, and ET4001TP-1002 tooling package

ET4001-015CSA Contains ET4001 crimper, 220v pump kit, and ET4001TP-1002 tooling package, CSA approved

Accessory part numbers

T-400-G 1.5 oz. tube high efficiency PTFE grease

FF91455 16 oz. can, high efficiency PTFE grease

ET4001C-0017 Magnetic work lamp

Ordering options

For your convenience, we have created one to two optimized machine and tooling package options for each of the core crimp machines. **If the available options do not meet your needs, place your order for the desired machine, pump, and tooling separately,** following the chart below.

Tooling can also be ordered a la carte. Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp.

Select your base machine	Pump included	Select your tooling package	Order a machine package with tooling
ET4001-004 Base ET4001 machine with hose kit, pump, work lamp	ET4001-004 220v pump included	ET4001TP-1002 New placement tooling package	ET4001-015
ET4001-004CSA Base ET4001 machine with hose kit, pump, work lamp, CSA approved	ET4001-004CSA 220v pump included	ET4001TP-1003 (for Winner hose with Z fittings)	ET4001-015CSA
		ET4001TP-1001 Conversion tooling package	

or

Industrial production crimp machines

ET5050

The ET5050 is designed for high industrial production and comes pre-programmed with all of Eaton's hose and hose fitting crimp specifications, crimp profile details, and machine settings in order to crimp to Eaton's specifications. It crimps up to 2" spiral, 2" braided and 4" industrial in Eaton core hose products as well as a wide variety of specialty hose.

Tooling packages: standard die

Standard die set part #	Die size		Die length		Minimum		Crimp range maximum	
	mm	in	mm	in	mm	in	mm	in
ET5040DC-M070S	7,0	0.276	82,0	3.23	7,0	0.28	9,0	0.35
ET5040DC-M090S	9,0	0.354	82,0	3.23	9,0	0.35	12,0	0.47
ET5040DC-M120S	12,0	0.472	82,0	3.23	12,0	0.47	15,0	0.59
*ET5040DC-M150S	15,0	0.590	82,0	3.23	15,0	0.59	18,0	0.71
*ET5040DC-M180S	18,0	0.709	82,0	3.23	18,0	0.71	21,0	0.83
*ET5040DC-M210S	21,0	0.827	82,0	3.23	21,0	0.83	24,0	0.95
*ET5040DC-M240S	24,0	0.945	82,0	3.23	24,0	0.95	28,0	1.10
*ET5040 DC-M280S	28,0	1.102	82,0	3.23	28,0	1.10	32,0	1.26
ET5040DC-M320S†	32,0	1.259	82,0	3.23	32,0	1.26	37,0	1.46
ET5040DC-M355S	35,5	1.398	82,0	3.23	35,5	1.40	39,5	1.56
*ET5040DC-M370S	37,0	1.457	82,0	3.23	37,0	1.46	42,0	1.66
*ET5040DC-M420S	42,0	1.654	82,0	3.23	42,0	1.66	46,5	1.83
ET5040DC-M450S	45,0	1.772	82,0	3.23	45,0	1.77	50,0	1.97
*ET5040DC-M465S	46,5	1.831	82,0	3.23	46,5	1.83	52,0	2.05
ET5040DC-M505S	50,5	1.988	82,0	3.23	50,5	1.99	54,0	2.13
*ET5040DC-M520S	52,0	2.047	82,0	3.23	52,0	2.05	55,0	2.17
*ET5040DC-M550S	55,0	2.165	82,0	3.23	55,0	2.17	60,0	2.36
ET5040DC-M570S	57,0	2.244	82,0	3.23	57,0	2.24	64,0	2.52
ET5040DC-M590S	59,0	2.323	82,0	3.23	59,0	2.32	66,0	2.60
ET5040DC-M620S	62,0	2.441	82,0	3.23	62,0	2.44	70,0	2.76
*ET5040DC-M690S	69,0	2.717	82,0	3.23	69,0	2.72	73,0	2.87
ET5040DC-M720S	72,0	2.835	82,0	3.23	72,0	2.84	78,0	3.07
ET5040DC-M775S	77,5	3.051	82,0	3.23	77,5	3.05	85,5	3.37
ET5040DC-M790S	79,0	3.110	82,0	3.23	79,0	3.11	88,0	3.46

*Included in the ET5040C-0023 standard die kit

†Supplied with all ET5040 crimp machines and required for calibration

ET5040C-0001 adapter die required for all M series dies and comes standard in each KT machine package.



Specifications

Dimensions:

67" high x 24" wide x 48" deep

Weight: 1,851 lbs (without mounting rack and dies)

Capabilities

Spiral hose: up to 2" (DN51)

Braided hose: up to 3" (DN80)

Industrial hose: up to 6" (DN102)

Features

- 280 tons of crimp force
- Designed for high production
- Pre-programmed with Eaton crimp specs and machine settings
- Crimps up to 2" spiral, 2" braided, 6" industrial in core products
- Crimps textile braid, wire braid, spiral hydraulic, thermoplastic, PTFE, air conditioning, and other industrial and specialty hose constructions

Benefits

- Ease of use and fast cycle times increase productivity
- Pre-loaded Eaton crimp specs reduce errors and scrap
- Fast and safe crimp operation
- Grease free dies allow for much easier and cleaner die changeout and reduce chance for operator error due to not having to apply grease to dies and crimp ring
- Convenient die storage rack allows easy access to crimp dies and tooling

Assembly equipment

Hose assembly machines and tooling

Industrial production crimp machines

ET5050

Tooling: large bore die

Standard die set part #	Die size		Die length		Minimum		Crimp range maximum	
	mm	in	mm	in	mm	in	mm	in
ET5040PBL-M740	74,0	2.913	118,0	4.65	74,0	2.92	83,0	3.26
ET5040PBL-M780	78,0	3.070	118,0	4.65	78,0	3.07	86,0	3.38
ET5040PBL-M840	84,0	3.307	118,0	4.65	84,0	3.31	92,0	3.62
ET5040PBL-M860	86,0	3.386	118,0	4.65	86,0	3.39	94,0	3.70
ET5040PBL-M900	90,0	3.543	118,0	4.65	90,0	3.55	99,0	3.89
ET5040PBL-M960	96,0	3.800	118,0	4.65	96,0	3.80	105,0	4.13
ET5040PBL-M1030	103,0	4.055	118,0	4.65	103,0	4.06	113,0	4.44
ET5040PBL-M1060	106,0	4.173	126,0	4.96	106,0	4.18	116,0	4.56
ET5040PBL-M1110	110,0	4.331	126,0	4.96	110,0	4.33	121,0	4.76
ET5040PBL-M1160	116,0	4.567	126,0	4.96	116,0	4.57	127,0	4.99
ET5040PBL-M1210	121,0	4.764	126,0	4.96	121,0	4.77	133,0	5.23
ET5040PBL-M1260	126,0	4.961	126,0	4.96	126,0	4.96	138,0	5.43
ET5040PBL-M1310	131,0	5.157	126,0	4.96	131,0	5.16	144,0	5.66

Note: Each set includes 8 individual dies

100R5 dies for the ET5050

Die part #	Hose size	Hose style
ET5040DC-R5-04	-04	Truck and fuel 100R5
ET5040DC-R5-05	-05	Truck and fuel 100R5
ET5040DC-R5-06	-06	Truck and fuel 100R5
ET5040DC-R5-08	-08	Truck and fuel 100R5
ET5040DC-R5-10	-10	Truck and fuel 100R5
ET5040DC-R5-12	-12	Truck and fuel 100R5
ET5040DC-R5-16	-16	Truck and fuel 100R5
ET5040DC-R5-20	-20	Truck and fuel 100R5
ET5040DC-R5-24	-24	Truck and fuel 100R5
ET5040DC-R5-32	-32	Truck and fuel 100R5

Crimp machine part numbers*

ET5050-001-230KT

ET5050-001-380KT

ET5050-001-400KT

ET5050-001-420KT

ET5050-001-440KT

ET5050-001-460KT

ET5050-001-480KT

*All crimp machine part numbers come with the machine, calibration tooling, die installation tool, standard die package, adapter die package, double foot pedal and machine mounted storage rack

Industrial production crimp machines

ET5050

Pump part numbers

All pumps are included with machine purchase. To review machine and pump package options please refer to the following ordering options.



Accessory part numbers

***ET5040C-0001†** Adapter die package (Supplied with ET5050 crimp machines. Required for use with ET5040DC style dies and used to calibrate machine.)

***ET5040C-0004** Die installation tool

ET5040C-0006 Automatic backstop

ET5040C-0007 Manual backstop

ET5050C-0009 Viewing mirror

***ET5040C-0014** Machine mounted die storage rack (includes insert holders)

ET5040C-0016 Table top die storage rack (includes insert holders)

***ET5040C-0019†** Calibration tool (supplied with ET5050 crimp machines)

***ET5040C-0020** Double pedal foot switch

***ET5040C-0023** Includes 11 of the most popular standard ET5040DC style die sets

ET5040DC-M320S† 32mm die set

ET5040DC-MXXX Standard die sets

ET5040PBL-MXXX Large bore industrial hose die sets

ET4001C-0017 Magnetic work lamp

*Components included in machine kit packages "KT"

†Calibration tooling (supplied with all ET5050 base machines)

Please note that ET5050 shares dies, crimp components, and some accessories with the ET5040

Ordering options

Tooling can also be ordered a la carte. Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp.

Select a machine kit	Kit includes	Pump included
ET5050-001-230KT	ET5050-001-230 machine, calibration tooling, die installation tool, standard die package, adapter die package, double foot pedal and machine mounted storage rack	230v 3 phase pump included
ET5050-001-380KT	ET5050-001-380 machine, calibration tooling, die installation tool, standard die package, adapter die package, double foot pedal and machine mounted storage rack	380v 3 phase pump included
ET5050-001-400KT	ET5050-001-400 machine, calibration tooling, die installation tool, standard die package, adapter die package, double foot pedal and machine mounted storage rack	400v 3 phase pump included
ET5050-001-420KT	ET5050-001-420 machine, calibration tooling, die installation tool, standard die package, adapter die package, double foot pedal and machine mounted storage rack	420v 3 phase pump included
ET5050-001-440KT	ET5050-001-440 machine, calibration tooling, die installation tool, standard die package, adapter die package, double foot pedal and machine mounted storage rack	440v 3 phase pump included
ET5050-001-460KT	ET5050-001-460 machine, calibration tooling, die installation tool, standard die package, adapter die package, double foot pedal and machine mounted storage rack	460v 3 phase pump included
ET5050-001-480KT	ET5050-001-480 machine, calibration tooling, die installation tool, standard die package, adapter die package, double foot pedal and machine mounted storage rack	480v 3 phase pump included

Assembly equipment

Hose assembly machines and tooling



Refer to page A-2 and applicable machine operator's manuals for safety information.

L

Specialty tooling

Coll-o-crip collet kit

The Eaton tools listed are offered in kits for any given hose type, or collets and tools can be purchased individually by catalog number.

Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp.



T-400-30 'E' Series collet kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465, and T-480.

Spacer Rings not included in T-400-30 kit.

Kit includes one each of the following:

Catalog number	Description	Catalog number	Description
T-400-113C	Collet – 3/16" (H243 only)	T-400-34C	Collet – 1/2"
T-400-31C	Collet – 1/4"	T-400-35C	Collet – 3/4"
T-400-32C	Collet – 5/16"	T-400-36C	Collet – 1"
T-400-33C	Collet – 3/8"	FS-1200	Label set/layout guide

T-400-66 069 'E' Series collet kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465, and T-480.

Spacer Rings not included in T-400-66 kit.

Kit includes one each of the following:

Catalog number	Description	Catalog number	Description
T-400-54C	Collet – 3/16"	T-400-59C	Collet – 5/8"
T-400-55C	Collet – 1/4"	T-400-60C	Collet – 7/8"
T-400-56C	Collet – 5/16"	T-400-61C	Collet – 1-1/8"
T-400-57C	Collet – 13/32"	T-400-70	Collet – 1-3/8"
T-400-58C	Collet – 1/2"	FS-1500	Label set/layout guide



Refer to page A-2 and applicable machine operator's manuals for safety information.

Specialty tooling

Coll-o-crimp collet kit

The Eaton tools listed are offered in kits for any given hose type, or collets and tools can be purchased individually by catalog number.

Visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ to find the tooling needed for all of the hoses and fittings you plan to crimp.



T-400-104 338 'P' Series collet kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465, and T-480.

Spacer Rings not included in T-400-104 kit.

Kit includes one each of the following:

Catalog number	Description
T-400-102C	Collet – 3/8"
T-400-103C	Collet – 1/2"

Catalog number	Description
FS-2900	Label set

T-400-114 757 'E' Series collet kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, ET4000, T-460, T-462, T-465, and T-480.

Spacer Rings not included in T-400-114 kit.

Kit includes one each of the following:

Catalog number	Description
T-400-105C	Collet – 5/16"
T-400-107C	Collet – 1/2"

Catalog number	Description
T-400-106C	Collet – 13/32"
T-400-108C	Collet – 5/8"

T-400-137 229 'P' Series collet kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T440-1, ET4000, T460, T-462, T-465, and T-480.

Spacer Rings not included in T-400-137 kit.

Kit includes one each of the following:

Catalog number	Description
T-400-80C	Collet – 3/16"
T-400-82C	Collet – 13/32"

Catalog number	Description
T-400-81C	Collet – 5/16"
T-400-83C	Collet – 1/2"

Assembly equipment

Hose assembly machines and tooling



Refer to page A-2 and applicable machine operator's manuals for safety information.

Repair and replacement items

General repair and replacement items

Catalog number	Description
T-400-G	1.5 oz. Tube high efficiency PTFE grease
FF91455	16 oz. Can, high efficiency PTFE grease

ET1000 Repair and replacement items

Catalog number	Description
ET1000C-0001	Stand
ET1000C-0006	Pusher
ET1000AR-001	Adapter ring

ET4001 Repair and replacement items

Catalog number	Description
ET4001C-0017	Gooseneck lamp, magnetic mount
T-410-1M	Micro switch
ET4000AR-001	Base adapter ring
ET4000AR-002	Base adapter ring
ET4000TP-0001	Locator bracket kit
ET4000TP-0002	Wear plate kit
ET4001C-0015	Shroud
120-00429	Screw, hex head (8)
FF91042	Cart for ET4001 or T-420

T-420 Repair and replacement items

Catalog number	Description
T-420-1M	Micro-switch for T-420-1 press
T-420-28	Tool locator bracket
T-420-B	Pusher bolt and washers
W-EQCR-TE006-E	Shroud decal
T-420-H	Handle
T-420-L	Light bulb
T-420-LA	Light assembly
T-420-LS	Light switch
W-EQCR-TM004-E	Instructions for T-420-1
T-420-P	Pusher set (2) with wear plates and screws
T-420-S	Press shroud with decals
T-420-26	Insert – base plate
E-EQCR-ME002-E	Instructional video
T-420-G	Linkage assembly
T-420-2R	Rack
T-420-2K	Pinion shaft assembly (incl'd T-420-2G, T-420-2R and T-420-2S)
T-420-2S	Replacement pinion gear shaft
140-06745	Pusher wear plates includes (1) left and (1) right
140-06748	Pusher wear plates screws (1)
FF91042	Cart for ET4001 or T-420

See pages L-27 thru L-30 for replacement pumps.

Reference pages L-20 and L-21 for specialty tooling and collet kits. For individual tooling items, such as collets, spacer rings, machine bowls, and adapter rings, visit the Eaton PowerSource Crimp Specs tool at www.eatonpowersource.com/crimp-specs/ or contact Eaton.

Refer to page A-2 and applicable machine operator's manuals for safety information.

Additional repair and replacement items are available. Refer to the owner's manual or contact Eaton for information.

T-450/T-465 repair and replacement items

Catalog number	Description
T-450-D1	Spacer ring selector decal for nylon hose (H009, H209, H243, H435, and H436)
T-450-P	Pusher
T-450-Q	Quick disconnect coupling
T-450K	Pusher and retainer plate repair kit.
	Includes: T-450B Pusher bolt (1) T-450R Retainer plate (1) T-450S Retainer plate screw (2)
W-EQCR-TE011-E	Shroud decal

T-464 Repair and replacement items

Catalog number	Description	Catalog number	Description
W-EQCR-TM008-E	Instructions	T-460-P	Pusher
T-460-SPR	Slide pull rod	T-460-SF	Slide flange
T-460-16	Hose assembly	T-460-SP	Slide plate
T-460-2	Hand pump	T-460-SPK	Slide pull knob
W-EQCR-TE009-E	Shroud decal	E-EQCR-ME002-E	Instructional video

T-466 Repair and replacement items

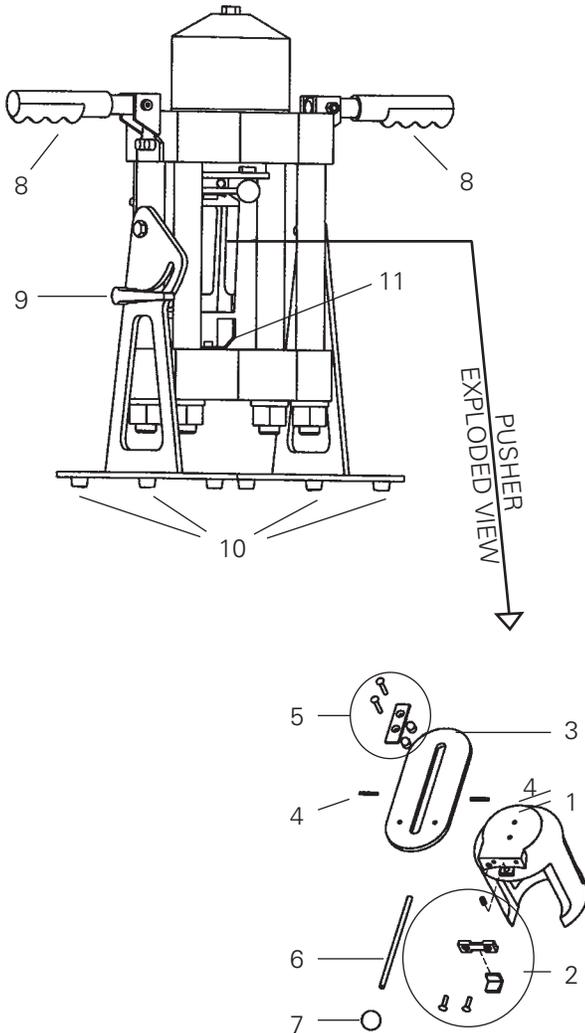
Catalog number	Description	Catalog number	Description
W-EQCR-TM008-E	Instructions	T-460-SPK	Slide pull knob
T-460-P	Pusher	T-460-SPR	Slide pull rod
T-460-SF	Slide flange	T-462-16	Hose assembly
T-460-SP	Slide plate	T-462-V	Regulator only
W-EQCR-TE010-E	Shroud decal	T-462-2	Air/hydraulic pump
140-06675	Air regulator kit	E-EQCR-ME002-E	Instructional video



Refer to page A-2 and applicable machine operator's manuals for safety information.

Repair and replacement items

T-480 Portable coll-o-crip repair and replacement items



Item number	Catalog number	Description
1	T-480-P	Pusher
2	T-480-PSK	Pusher stop repair kit (Includes pusher clip, 2 machine screws, pusher stop and spring)
3	T-480-SP	Slider plate
4	140-05485-01	Roll pin
5	T-480-SFK	Slide flange kit (Includes slide flange, 2 bushings and 2 machine screws)
6	T-480-SPR	Slide pull rod
7	T-480-SPK	Slide pull knob
8	140-06601	Vinyl grip
9	T-480-TBK	Tilt bracket knob
10	140-06894	Foot pad
11	T-480-69	Tool locator bracket
#	T-480-16	10,000 PSI replacement hose assembly for 480-HP
#	T-480-17	10,000 PSI replacement hose assembly for T-480-TA and T-480-EP
#	T-480-18	10,000 PSI replacement hose assembly for 480-AH
#	140-06906	Hydraulic quick coupler used with the T-480-TA and T-480-EP system
#	T-480-3	Turbo air/hydraulic replacement pump for T-480-TA system
#	T-481-110	Electric replacement pump for T-480-EP system
#	T-480-2	Hand replacement pump for T-480-HP system
#	T-482-2	Air/hydraulic replacement pump for T-480-AH system
#	W-EQCR-TE012-E	Shroud decal
#	W-EQCR-TM013-E	Set-up and operating guide for T-480 system
#	E-EQCR-ME002-E	Instructional video

Item not illustrated in parts breakdown.

Assembly equipment

Hose assembly machines and tooling



Refer to page A-2 and applicable machine operator's manuals for safety information.

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Repair and replacement items

T-400-1 Coll-o-crimp I repair and replacement items

Catalog number	Description
T-400-B	Pusher bolt
T-400-BB	Switch to interface T400-1 crimper to T421U pump or T-421U-110 pump
T-400-G	1.5 oz. Tube high efficiency * grease
T-400-K1	Seal replacement kit for T-400-1 press
W-EQCR-TD003-E	Shroud decal
T-400-M	Instructions for T-400-1
T-400-S	Replacement press shroud with decals.
T-400-8	Die ring
T-400-13	Replacement** collet cage for T-400 "U" Series collets, 1/4" and 3/8" sizes only, and 229 "P" series collets, all sizes, with a 'C' suffix.
T-400-14	Replacement** collet cage for T-400 "U" Series collets with a "C" suffix, 1/2" through 1" only,
T-400-19	60" Hose assembly and fittings
T-400-90	Replacement** collet cage for T-400 "E", 069 "E", and "E" Series collets with a "C" suffix.
T-432-15	Pusher
E-EQCR-ME002-E	Instructional video

** 2 required for each collet

Repair and replacement items

Hose cutting and skiving wheels



Part number	Type	Blade dia.	Hole dia.	Applicable machine
Cutting wheels				
T-1042	Carborundum	8"	5/8"	T-10A
T-1047	Steel smooth	7"	5/8"	T-10B & T-10C
T-1047-1	Steel scalloped	7"	5/8"	T-10B & T-10C
T-1060	Carborundum	12"	1"	T-60
T-1060A	Carborundum	14"	1"	T-60A
T-1070	Steel scalloped	14"	1"	T-70, T-71
T-1071	Steel scalloped toothed	14"	1"	T-70, T-71
T-1072	Steel smooth beveled	14"	1"	T-70, T-71
T-75-11	Steel smooth	10"	3/4"	T-9/T-75
T-75-14	Steel scalloped	10"	3/4"	T-9/T-75
T-75-17	Carborundum	10"	3/4"	T-9/T-75
Skiving wheels				
T-75-12	Wire	8"	1"	T-75



Refer to page A-2 and applicable machine operator's manuals for safety information.

Assembly equipment

Hose assembly machines and tooling

Field attachable

T-300

Field attachable hose end assembly machine



The Weatherhead T-300 machine eliminates lost time and hard work when making replacement hose assemblies with bulk hose and field attachable hose ends. Simple, effortless operation provides uniform, safe assemblies time after time. This heavy-duty machine assembles straight, swivel, elbow and flange-type ends on all medium and high pressure wire braid hose from 3/16" through 2" I.D.

Part number	Description
T-300	Assembly machine – complete with tripod stand, adjustable locator, chuck handle and foot switch
T-300X	Assembly machine without tripod stand
T-301	Tripod stand

Motor

Universal, reversible, 110-115 volts, 25-60 cycle, 1/2 H.P., 8 amps

Weight

167 lbs.

Mandrel Assembly tools



These tools are required for assembling 069 'D' Series hose ends in sizes 4 through 12 to prevent cutting the hose inner tube. Size 16 through 32 mandrels are used as a holding device when assembling 069 'D' Series swivel ends. Mandrels can be ordered individually.

Hose I.D.	Part number	Swivel end application
3/16"	T-JS4	SAE 37° & 45°
1/4"	T-JS5	SAE 37° & 45°
5/16"	T-J6	SAE 37°
5/16"	T-S6	SAE 45°
13/32"	T-JS8	SAE 37° & 45°
1/2"	T-JS10	SAE 37° & 45°
5/8"	T-J12	SAE 37°
5/8"	T-S12	SAE 45°

Hose I.D.	Part number	Swivel end application
7/8"	T-J16	SAE 37°
1-3/8"	T-J24	SAE 37°
1-13/16"	T-J32	SAE 37°

Assembly equipment

Hose assembly machines and tooling



Refer to page A-2 and applicable machine operator's manuals for safety information.

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Field attachable

T-101A

Barb-Tite™ end assembly tool



Assembly of Barb-Tite push-on hose ends is made easy with this handy tool. Easy and fast operation assures dependable, leak proof assemblies. Simply clamp hose in jaws, place hose end on push rod and pull the handle. Engineered for a lifetime of rugged service.

Weight

1 lb.

Capacity

1/4" to 1/2" I.D. hose only.

T-201

Barb-Tite end assembly tool



This bench-mounted tool is actually two tools in one. Not only does it assemble Barb-Tite hose ends, it is also a hose cutter. To cut your hose, simply retract the handle, place the hose in the cutter area and pull the handle. After cutting the hose to the desired length, place the hose under the cam handle locking it in place with the hose end aligned with the appropriate mark on the label. Place the barbed end of the fitting against the end of the hose and then pull the handle forward to complete the installation. The T-201 assembly tool is an easy-to-use tool that does everything you need to create a hose assembly.

Replacement blade T-201B

Note: This tool is designed to cut fiber-reinforced rubber hose only.

Capacity

1/4" to 3/4" I.D. hose

Coll-O-Crimp pumps

T-403-2

Hand pump

For use with T-400-1.



Pump specifications:

Dimensions
7 high, 21" long, 4-3/4" wide

Weight
9 lbs.

Operation pressure
4000-4200 PSI

Reservoir capacity
1 qt.

Outlet port size
3/8"

NPT hydraulic oil
Use Enerpac oil ONLY

For repair and replacement items for the following pumps please contact an Enerpac distributor at www.enerpac.com: T-402-2, T-403-2, T-481-110 & T-482-2.

T-460-2

Hand pump

For use with T-450-1, T-460 and T-465.



Pump specifications:

Dimensions
5-5/8" High, 13-1/4" long, 3-3/4" wide

Weight
4-1/2 lbs.

Operation pressure
0-10,000 PSI

Reservoir capacity
20 cu in.

Relief valve setting
10,000 PSI

Hydraulic oil:
Use Enerpac oil ONLY

Note:
For repair and replacement items for the following pumps please contact an Enerpac Distributor at www.enerpac.com: T-402-2, T-403-2, T-433, T-460-2, T-462-2, T-480-2, T-480-3, T-481-110 & T-482-2.

T-480-2

Two-stage hand pump

For use with T-480-HP, ET1000.



Pump specifications:

Dimensions
7-3/16" high x 21-1/64" long x 4-3/4" wide

Weight
9 lbs.

Operation pressure
0-10,000 PSI

Hydraulic oil
Use Enerpac oil ONLY

Repair and replacement items for discontinued T-401-1 pump

Catalog number	Description
T-401-1BC	Breather cap for Fenner-Stone pumps
T-401-1S	Toggle switch
T-401-SVF	Shuttle valve for Fenner-Stone pump

Assembly equipment

Hose assembly machines and tooling

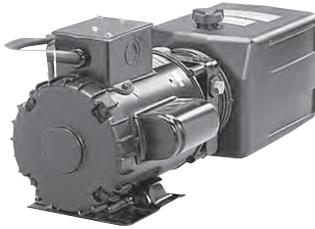
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Coll-O-Crimp pumps

T-421U

Electric pump (220 volt)

For use with T-400-1 and T-420-1.



Pump specifications:

Dimensions 7-1/2" high, 22" long, 10" wide

Weight 75 lbs.

Operation pressure 4000-4200 PSI

Reservoir capacity 6 quarts

Outlet port size 3/4"-16 Straight Thread

Motor 1 H.P., 3450 R.P.M., 220 volts, 60 cycle, single phase
At 50 Hertz, RPM = 2,850
At 60 Hertz, RPM = 3,450

T-421UCSA CSA approved

Hydraulic oil* ISO 32 hydraulic oil or (ATF) automatic transmission fluid

Flow 2.5 GPM @ 750 PSI, 0.5 GPM @ 4000 PSI

*For low temperature applications automatic transmission fluid can be substituted.

Note: It is recommended that the electric pump be used on a 15 amp. fused circuit. Pump wired for 220 volts, single phase.

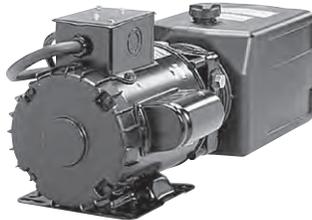
Replacement parts:

Catalog number	Description
140-06761	Relay for T-421U, T-441 and T-441 pumps only
T-421U-BC	Breather cap - twist lock
T-421-FP	220v 4 wire female electrical receptacle
T-401-1BC	Breather cap → threaded

T-421U-110

Electric pump (110 volt)

For use with T-400-1 and T-420-1.



For dimensional data other than voltage information, refer to T-421U see above.

T-421U-110CSA CSA approved

Note: It is recommended that the electric pump be used on an individual 30 amp. fused circuit.

Pump wired for 110 volts, single phase.

T-481-110

Electric pump (110 volt)

For use with T-480-EP, ET1000.



Pump specifications:

Dimensions 14-14" High, 9-5/8" long, 9-5/8" wide

Weight 32 lbs.

Operation pressure 0-10,000 psi

Hydraulic oil Use Enerpac oil ONLY

ET4001P-002

Electric pump (220 volt)

For use with ET4001 press.

It features a two-stage pump providing high flow at low pressure for fast ram approach and low flow at high pressure for actual crimping.

Pump specifications:

Dimensions: 7 1/2" high, 10" wide, 22" long

Weight 75 lbs.

Operation pressure 5,000 psi

Reservoir capacity 6 quarts

Outlet port size 3/4"-16 Straight thread O-Ring

Motor 1HP, 3450 RPM, 220 volts, 60 cycle, single phase

Hydraulic oil ISO 32 (SAE 10W)

Flow 2.6 GPM to 900 psi. 0.6 GPM above 900 psi

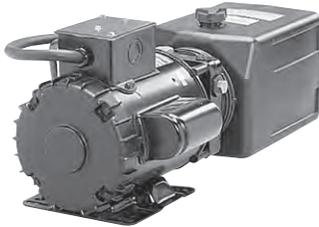
CAUTION: The ET4001P-002 electric pump has the relief valve set at 5,000 psi. Damage to the press will result and the warranty may be voided if higher pressures are used. Requires individual 20 amp service breaker (220 v).

Coll-O-Crimp pumps

T-441

Electric pump (220 volt)

For use with T-440-1 and ET4000 only.



The Weatherhead T-441 power unit is designed for use with the Coll-O-Crimp II Plus press. It features a two-stage pump providing high flow at low pressure for fast ram approach and low flow at high pressure for actual crimping.

Pump specifications:

Dimensions: 7-1/2" high, 22" long, 10" wide

Weight 75 lbs.

Operation pressure
5,000 PSI

Reservoir capacity 6 quarts

Outlet port size
3/4-16 Straight thread O-Ring

Motor 1 H.P., 3450 R.P.M., 220 volts, 60 cycle, single phase

Hydraulic oil ISO 32 hydraulic oil automatic transmission fluid

Flow 2.5 GPM @ 750 PSI, 0.5 GPM @ 5000 PSI

Replacement parts:

Catalog number	Description
T-421U-BC	Breather cap
T-421-FP	220v 4 wire female electrical receptacle
140-06761	Relay for T-421U or T-421U-110 pumps

Note: T441 pump is to be used with T440-1 and ET4000 press only. When replacing the pump on a standard T-410 Coll-O-Crimp II Press (without the black switchbox on the side of the press) refer to the repair and replacement items on page L-22.

T-402-2

Air/hydraulic pump

For use with T-400-1.



Pump specifications:

Dimensions
5-1/4" high, 12-1/2" long, 5" wide

Weight 18 lbs.

Operation pressure
4000-4200 PSI

Reservoir capacity 1 pint

Hydraulic oil
Use Enerpac oil ONLY

Outlet port size
3/8" NPT

Inlet (air) port size
1/4" NPT

Inlet air pressure required
60 to 120 PSI

Note: It is recommended that a filter, regulator, lubricator, and air pressure gauge be installed in the air line as close as possible to the pump. Filter, regulator, and lubricator units not included.

Some models have air port on right side.

T-482-2

Air/hydraulic pump

For use with T-480-AH, ET1000.



Pump specifications:

Dimensions
5" High, 14-5/8" long, 5-5/8" wide

Weight
12 lbs.

Operation pressure
0-10,000 psi

Hydraulic oil
Use Enerpac oil ONLY

Assembly equipment

Hose assembly machines and tooling

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Coll-O-Crimp pumps

T-462-2

Air/hydraulic pump

For use with T-462.



The Weatherhead T-462-2 power unit is a air/hydraulic pump designed for use with the T-462 portable system. Ideal if you have the availability of compressed air in your shop or in the field via a portable compressor.

Pump specifications:

Dimensions

4" high, 13" long

Weight

8 lbs.

Operation pressure

0-10,000 PSI

Reservoir capacity

10 cu in.

Relief valve setting

10,000 PSI

Hydraulic oil

Use Enerpac oil ONLY

Regulator to be set for 100-120 PSI inlet air

T-480-3

Turbo air/hydraulic pump

For use with T-480-TA.



Pump specifications:

Dimensions

8-1/4" High x 12-3/8" long x 8" wide

Weight

16-1/2 lbs.

Operation pressure

0-10,000 PSI

Hydraulic oil:

Use Enerpac oil ONLY

For repair and replacement items for the following pumps please contact an Enerpac Distributor at

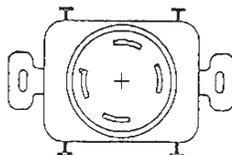
www.enerpac.com:

T-402-2, T-403-2, T-460-2, T-462-2, T-480-2, T-480-3, T-481-110 & T-482-2.

T-421-FP

4-Prong female electrical outlet

All Weatherhead 220v Coll-O-Crimp power pumps are equipped with a four prong electrical outlet as illustrated.



To obtain corresponding female wall receptacle order T-421-FP.

For use with T-421U, T-441 and T-433 pumps.



Refer to page A-2 and applicable machine operator's manuals for safety information.

Competitor conversion kits

T-400-GT

Gates PC707 conversion kit



The T-400-GT conversion kit is designed to allow the use of standard Weatherhead Coll-O-Crimp tooling, hose, and hose ends in the Gates PC707 crimper. Everything is included to convert the crimper to accept Weatherhead tooling. This kit gives the crimper capacity to crimp up to and including -10 I.D. 2-wire hose factory-type hose assemblies. **This kit does not include the T-400-8 die ring which is required for crimping.**

T-400-GT Kit includes:

Pusher, 10-24 x 1/4 set screws (2), spacer (2), instructions

T-400-PH

Parker 80c conversion kit



The T-400-PH conversion kit is designed to allow the use of standard Weatherhead Coll-O-Crimp tooling, hose, and hose ends in the Parker 80c crimper. Everything is included to convert the crimper to accept Weatherhead tooling. This kit gives the crimper capacity to crimp up to and including 1-1/4" I.D. 2-wire hose factory-type hose assemblies.

T-400-PH Kit includes:

1/4-20 x 1 Cap screw (4), dowel pin spacer (2), 1/4" lockwasher (4), spacer bracket (4), adapter die ring, instructions

T-420-GT

Gates PC707 conversion kit



The T-420-GT conversion kit is designed to allow the use of standard Eaton tooling, hose, and hose ends in the Gates PC707 crimper. Everything is included to convert the crimper to accept Eaton tooling. This kit gives the crimper capacity to crimp up to and including 1-1/4" I.D. 4-wire spiral hose factory-type hose assemblies. Tooling should be ordered separately.

T-420-GT Kit includes:

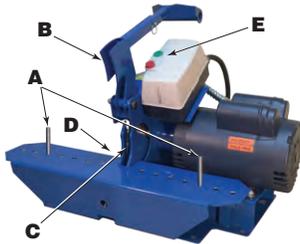
Shroud, adapter ring, locator pins (2), instructions

Assembly equipment

Hose preparation

Hose saws

ET9100, ET9200 & ET9300 series



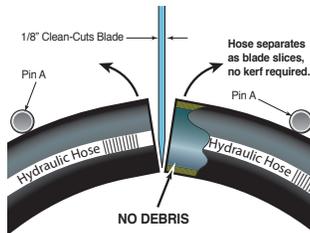
Clean cuts • less smoke • longer life

ET9100/200/300 hydraulic hose cutting system is break-through technology using a toothed blade, cutting with the backs of each tooth, so the blade does not take a kerf. The saw bends the hose into the blade spreading the cut edges to avoid burning and smoking.

How it works

With the ET9100/200/300 hydraulic hose saws the hose is positioned across two pins (A) and moved into the blade (C) by a feed foot (B) using a pulldown handle for better leverage on

heavy hose. The feed motion causes the hose to stretch at the point of contact with the blade, allowing it to separate as it is cut (see image at right). This separation allows the hose to pass clear of the saw blade with NO friction, NO heating and NO DEBRIS! A vacuum hose (not shown) is attached to a vacuum port (D) to remove any tiny amount of debris or smoke during cutting. Improved safety using a 110V on/off switch (E) with a magnetic contactor. When power is lost, the saw will not turn back on independently.



WARNING The user must exercise extreme care when operating any Eaton assembly equipment with powered moving components. Safety glasses must be worn at all times when using any Eaton assembly equipment.

Read and understand the owners and operators manual before attempting to operate any equipment.

Eaton personnel are available to answer any questions, please call Eaton, 14615 Lone Oak Road, Eden Prairie, MN 55344, 952-937-9800. Eaton assembly equipment is designed to be used only with Weatherhead and Winner hose and Eaton hose fittings.

ET9100 Series



ET9100 series saws

Model	Motor	7 inch Blade	Cutting capacity
ET9100-07-110	1-1/2 HP, 110 VAC (1 Phase), 60 Cycle, 17** Amp, 3,430 RPM	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose
ET9100-07-110CSAt	1-1/2 HP, 110 VAC (1 Phase), 60 Cycle, 17** Amp, 3,430 RPM	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose
ET9100-07-22060	2 HP, 220 VAC (1 Phase), 60 Cycle, 11* Amp, 3,430 RPM	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose
ET9100-07-22050	2 HP, 220 VAC (1 Phase), 50 Cycle, 11* Amp, 2,865 RPM	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose

* Requires 15 Amp Circuit ** Requires 20 Amp Circuit †Canadian Standards Association Rated

ET9100 series saw blades

Model	Type	Blade	Cutting capacity
ET9100-07-AS	Advanced scallop blade	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose
ET9100-07-MS	Micro-slotted blade	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose
ET9100-07-SM	Smooth blade	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose
ET9100-07-SC	Scalloped blade	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose
ET9100-07-SL	Slotted blade	7" OD x .093 THK X 3/4" arbor	1-1/4" ID x 4 wire hydraulic hose

ET9200 Series



ET9200 series saws

Model	Motor	10 inch Blade	Cutting capacity
ET9200-10-220	5 HP, 220 VAC (1 Phase), 60 Cycle, 21 Amp, 3,490 RPM	10" OD x .125 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡
ET9200-10-22050	3 HP, 220 VAC (1 Phase), 50 Cycle, 4 Amp, 2,865 RPM	10" OD x .125 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡
ET9200-10-220 CSA †	5 HP, 220 VAC (1 Phase), 60 Cycle, 21 Amp, 3,490 RPM	10" OD x .125 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡
ET9200-10-220-3	3 HP, 220 VAC (3 Phase), 60 Cycle, 11* Amp, 3,490 RPM	10" OD x .125 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡
ET9200-10-220-3 CSA †	3 HP, 220 VAC (3 Phase), 60 Cycle, 11* Amp, 3,490 RPM	10" OD x .125 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡
ET9200-10-440-3	3 HP, 440 VAC (3 Phase), 60 Cycle, 4 Amp, 3,490 RPM	10" OD x .125 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡
ET9200-10-12V	4 HP, 12 VDC, 10,000 RPM	10" OD x .125 THK X 40 mm	2" ID x 4 wire hydraulic hose
ET9200-10-24V	4 HP, 24 VDC, 10,000 RPM	10" OD x .125 THK X 40 mm	2" ID x 4 wire multi-spiral hydraulic hose

* Requires 15 Amp Circuit ** Requires 20 Amp Circuit
 †Canadian Standards Association Rated ‡ Diamond Blade Recommended for Frequent 6 Wire Cutting

ET9200 series saw blades

Model	Type	Blade size	Cutting capacity
ET9200C-10-AS	Advanced scallop bladew	10" OD x .125 THK X 40 mm arbor	2" ID x 6 wire hydraulic hose ‡
ET9200C-10-MS	Micro-slotted blade	10" OD x .125 THK X 40 mm arbor	2" ID x 6 wire hydraulic hose ‡
ET9200C-10-D	Diamond blade	10" OD x .125 THK X 40 mm arbor	2" ID x 6 wire hydraulic hose ‡
ET9200C-10-SM	Smooth blade	10" OD x .125 THK X 40 mm arbor	2" ID x 6 wire hydraulic hose ‡
ET9200C-10-SC	Scalloped blade	10" OD x .125 THK X 40 mm arbor	2" ID x 6 wire hydraulic hose ‡
ET9200C-10-SL	Slotted blade	10" OD x .125 THK X 40 mm arbor	2" ID x 6 wire hydraulic hose ‡

ET9300 Series



ET9300 series saws

Model	Motor	14 inch Blade	Cutting capacity
ET9300-14-220	5 HP, 220 VAC (1 Phase), 60 Cycle, 21 Amp, 3,490 RPM	14" OD x .160 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡ and 5" OD spiral wound hose
ET9300-14-22050	3 HP, 220 VAC (1 Phase), 50 Cycle, 11* amp, 3,490 RPM	14" OD x .160 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡ and 5" OD spiral wound hose
ET9300-14-220-3	3 HP, 220 VAC (3 Phase), 60 Cycle, 11* Amp, 3,490 RPM	14" OD x .160 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡ and 5" OD spiral wound hose
ET9300-14-440-3	3 HP, 440 VAC (3 Phase), 60 Cycle, 4 Amp, 3,490 RPM	14" OD x .160 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡ And 5" OD spiral wound hose
ET9300-14-220-3 CSA †	3 HP, 220 VAC (3 Phase), 60 Cycle, 11* Amp, 3,490 RPM	14" OD x .160 THK X 40 mm	2" ID x 6 wire hydraulic hose ‡ and 5" OD spiral wound hose

* Requires 15 Amp Circuit ** Requires 20 Amp Circuit
 †Canadian Standards Association Rated ‡ Diamond Blade Recommended for Frequent 6 Wire Cutting

ET9300 series saw blades

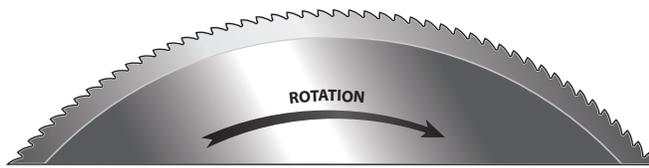
Model	Type	Blade size	Cutting capacity
ET9300C-14-AS	Advanced scallop blade	14" OD x .160 THK X 40 mm arbor	2" ID x 4 wire hydraulic hose 5" OD spiral wound hose
ET9300C-14-MS	Micro-slotted blade	14" OD x .160 THK X 40 mm arbor	2" ID x 4 wire hydraulic hose 5" OD spiral wound hose
ET9300C-14-D	Diamond blade	14" OD x .160 THK X 40 mm arbor	2" ID x 4 wire hydraulic hose 5" OD spiral wound hose
ET9300C-14-SM	Smooth blade	14" OD x .160 THK X 40 mm arbor	2" ID x 4 wire hydraulic hose 5" OD spiral wound hose
ET9300C-14-SC	Scalloped blade	14" OD x .160 THK X 40 mm arbor	2" ID x 4 wire hydraulic hose 5" OD spiral wound hose
ET9300C-14-SL	Slotted blade	14" OD x .160 THK X 40 mm arbor	2" ID x 4 wire hydraulic hose 5" OD spiral wound hose

Assembly equipment

Hose preparation

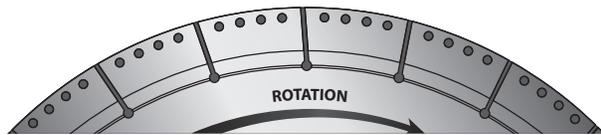
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Hose saw blades



Advanced scalloped blades

Features advanced performance scalloped knife technology for cutting hydraulic spiral hose and wire helix hose resulting in cleaner cuts, faster cuts, no smoke, and longer blade life. Available in 6" to 14" sizes to fit Clean-Cuts™, Weatherhead®, Custom Crimp®, Gates®, Goodyear®, Imperial Eastman®, Parker®, Stratoflex®, Toledo®, and Weatherhead® saws.



Diamond hydraulic hose blades

Exclusively designed for cutting heavy 4 and 6 wire hydraulic hoses. This diamond grinding technology cuts down by 60% the debris while cutting heavy hoses very quickly as opposed to using abrasive wheels. You will get a fantastic finish and make 5 – 10 second cuts in 2" hose.



Smooth beveled edge hydraulic hose blades

Smooth edge knife designed for the best finish when cutting light duty hoses like single wire braid, textile reinforced, poly or nylon reinforced, and Teflon hoses.

Available in sizes 6"-14" to fit Clean-Cuts™, Weatherhead®, Custom Crimp®, Gates®, Goodyear®, Hydrosand®, Imperial Eastman®, O+P®, Parker®, Savage Stone®, Stratoflex®, Toledo®, and Weatherhead®.

Advanced scalloped blade

Model	Diameter	Thickness	Arbor	Eaton saw
ET9500C-06-AS	6"	0.093"	5/8"	-
ET9500C-07-AS	7"	0.093"	5/8"	-
ET9100C-07-AS	7"	0.093"	3/4"	ET9100
ET9500C-08-AS	8"	0.093"	5/8"	-
ET9500C-10-AS	10"	0.093"	3/4"	-
ET9500C-10-1-AS	10"	0.125"	1"	-
ET9200C-10-AS	10"	0.125"	40mm	ET9200
ET9500C-12-AS	12"	0.125"	1"	-
ET9500C-14-AS	14"	0.125"	1"	-
ET9300C-14-AS	14"	0.160"	40mm	ET9300

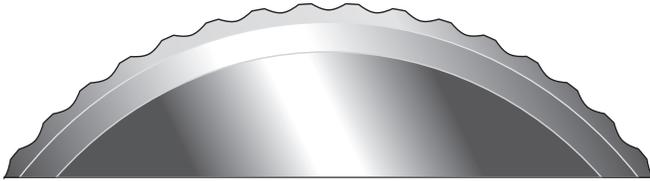
Diamond hydraulic hose blade

Model	Diameter	Thickness	Arbor	Eaton saw
ET9200C-10-D	10"	0.125"	40mm	ET9200
ET9300C-14-D	14"	0.160"	40mm	ET9300

Smooth beveled edge hydraulic hose blade

Model	Diameter	Thickness	Arbor	Eaton saw
ET9500C-07-SM	7"	0.093"	5/8"	-
ET9100C-07-SM	7"	0.093"	3/4"	ET9100
ET9500C-08-SM	8"	0.093"	5/8"	-
ET9500C-10-SM	10"	0.062"	5/8"	-
ET9500C-10-1-SM	10"	0.093"	3/4"	-
ET9200-10-1-SM	10"	0.093"	40mm	ET9200
ET9500C-10-2-SM	10"	0.125"	1"	-
ET9200C-10-SM	10"	0.125"	40mm	-
ET9500C-12-SM	12"	0.093"	1"	-
ET9500C-12-1-SM	12"	0.125"	1"	-
ET9500C-14-SM	14"	0.125"	1"	-
ET9300C-14-SM	14"	0.160"	40mm	ET9300
ET9500C-16-SM	16"	0.160"	1"	-
ET9500C-18-SM	18"	0.160"	1"	-
ET9500C-20-SM	20"	0.160"	1"	-
ET9500C-22-SM	22"	0.160"	1"	-
ET9500C-24-SM	24"	0.160"	1"	-
ET9500C-26-SM	26"	0.160"	1"	-

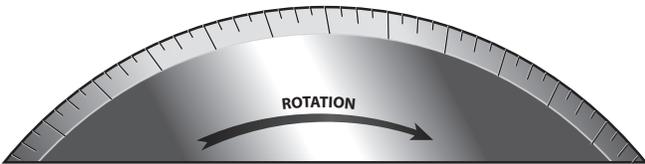
Hose saw blades



Notched scalloped hydraulic hose blades

Notched scalloped knives are designed for rough duty cutting on spiral hose up to 6 wire.

Available in sizes 6"-14" to fit Clean-Cuts™, Weatherhead®, Custom Crimp®, Gates®, Goodyear®, Hydros cand®, Imperial Eastman®, O+P®, Parker®, Savage®, Stone®, Stratoflex®, Toledo®, and Weatherhead®.

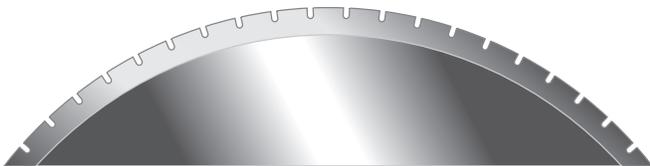


Micro-slotted smooth hydraulic hose blades

Features "new" micro-slotted smooth edge knife technology combining the better finishes of a double bevel knife with the more aggressive performance of a slotted knife. This is our most universal knife grind and will give you two times longer blade life than smooth edge knives. Used for cutting spiral hose, industrial hose, Teflon, PTFE, Kevlar, and metal hose.

Available in 6" to 14" sizes to fit Clean-Cuts™, Weatherhead®, Custom Crimp®, Gates®, Goodyear®, Imperial Eastman®, Parker®, Stratoflex®, Toledo®, and Weatherhead® saws.

Also available in 16" to 26" sizes to fit Hydros cand®, Finn Power®, Marken®, O+P®, Savage®, Stone®, Techmaf lex® and Uniflex® saws.



Slotted smooth hydraulic hose blades

Designed for cutting 4 to 6 wire spiral hoses, this high performance heavy duty slotted knife reduces pinching by skiving the sides of the hose while cutting.

Available in sizes 16" to 36" to fit on Finn Power®, Hydros cand®, Marken®, O+P®, Savage®, Stone®, Stratoflex®, Techmaf lex® and Uniflex® saws.

Teflon is a trademark of The Chemours Company FC, LLC used under license by Eaton.

Notched scalloped hydraulic hose blade

Model	Diameter	Thickness	Arbor	Eaton saw
ET9500C-07-SC	7"	0.093"	5/8"	-
ET9100C-07-SC	7"	0.093"	3/4"	ET9100
ET9500C-08-SC	8"	0.093"	5/8"	-
ET9500C-10-SC	10"	0.093"	3/4"	-
ET9500C-10-1-SC	10"	0.125"	1"	-
ET9200C-10-SC	10"	0.125"	40mm	ET9200
ET9500C-12-SC	12"	0.125"	1"	-
ET9500C-14-SC	14"	0.125"	1"	-

Micro-slotted smooth edge hydraulic hose blade

Model	Diameter	Thickness	Arbor	Eaton saw
ET9500C-06-MS	6"	0.093"	5/8"	-
ET9500C-07-MS	7"	0.093"	5/8"	-
ET9100C-07-MS	7"	0.093"	3/4"	ET9100
ET9500C-08-MS	8"	0.093"	5/8"	-
ET9500C-10-MS	10"	0.062"	5/8"	-
ET9500C-10-1-MS	10"	0.093"	3/4"	-
ET9200C-10-1-MS	10"	0.093"	40mm	ET9200
ET9500C-10-2-MS	10"	0.125"	1"	-
ET9200C-10-MS	10"	0.125"	40mm	ET9200
ET9500C-12-MS	12"	0.093"	1"	-
ET9500C-12-1-MS	12"	0.125"	1"	-
ET9500C-14-MS	14"	0.125"	1"	-
ET9300C-14-MS	14"	0.160"	40mm	ET9300
ET9500C-16-MS	16"	0.160"	1"	-
ET9500C-18-MS	18"	0.160"	1"	-
ET9500C-20-MS	20"	0.160"	1"	-
ET9500C-22-MS	22"	0.160"	1"	-
ET9500C-24-MS	24"	0.160"	1"	-
ET9500C-26-MS	26"	0.160"	1"	-

Slotted smooth hydraulic hose blade

Model	Diameter	Thickness	Arbor	Eaton saw
ET9500C-07-SL	7"	0.093"	5/8"	-
ET9100C-07-SL	7"	0.093"	3/4"	ET9100
ET9500C-08-SL	8"	0.093"	5/8"	-
ET9500C-10-SL	10"	0.062"	5/8"	-
ET9500C-10-1-SL	10"	0.093"	3/4"	-
ET9200C-10-1-SL	10"	0.093"	40mm	ET9200
ET9500C-10-2-SL	10"	0.125"	3/4"	-
ET9500C-10-3-SL	10"	0.125"	1"	-
ET9200C-10-SL	10"	0.125"	40mm	ET9200
ET9500C-12-SL	12"	0.093"	1"	-
ET9500C-12-1-SL	14"	0.125"	1"	-
ET9500C-14-SL	14"	0.125"	1"	-
ET9300C-14-SL	14"	0.160"	40mm	ET9300
ET9500C-16-SL	16"	0.160"	1"	-
ET9500C-18-SL	18"	0.160"	1"	-
ET9500C-20-SL	20"	0.160"	1"	-
ET9500C-20-1-SL	20"	0.160"	40mm	-
ET9500C-21-SL	21"	0.160"	38mm	-
ET9500C-22-SL	22"	0.160"	50mm	-
ET9500C-24-SL	24"	0.160"	1"	-
ET9500C-26-SL	26"	0.160"	1"	-

Assembly equipment

Hose preparation



Refer to page A-2 and applicable machine operator's manuals for safety information.

Hose cutting equipment

T-71

Hose cutting machine



This cutting machine easily handles all 1 and 2 braided wire hose through 4" I.D., up to 2" I.D. 4-spiral and up to 1-1/2" I.D. 6 multi-spiral reinforced hose. That makes this machine ideal for cutting most hydraulic and pneumatic hoses as well as a variety of industrial fluid transfer hoses. The T-71 uses a 14" cutting blade, T-1070, for cutting all 1 & 2 wire braid and through 2" 4 spiral hose. The scalloped toothed blade T-1071, is for cutting industrial

transfer hoses through 4" and the smooth beveled blade, T-1072, for cutting hose with a wire braid cover. T-71 includes a scalloped blade.

The T-71 is shipped with a scalloped blade, T-1070.

Replacement blade:

T-1070 Steel scalloped

T-1071 Steel scalloped toothed

T-1072 Steel smooth beveled

Motor

4.5 H.P., 110/115 volts, single phase, 60 cycle

Size

22" wide, 19" deep, 25" high

Weight

Approx. 85 lbs.

Amps drawn

115 volts – 20 amp

T-135

Plastic tube and hose cutter



An economical alternative to quality tube and hose cutting. This versatile tool is lightweight and durable for long service life.

Replacement blade

T-135B

Capacity

Up to 1" hose I.D.

Note: Not for use with wire-reinforced hose.

T-191

Plastic tube and hose cutter



Only 2-7/8" long, the versatile T-191 offers quick and clean square cuts on 1/16" to 1/2" O.D. plastic tubing and non-wire reinforced hose. The T-191 can be either bench or wall mounted and offers the safety of closing automatically when not in use.

Spare parts

T-191B Replacement blade (one per package)

Presetting tools

7000 Series

Ermeto hand presetting tools



Presetting tools provide a more accurate and positive leak-proof method of coupling flareless fittings. Presetting steel Ermeto sleeves on tubing prior to fitting assembly will permit the maximum high performance obtainable with flareless fittings. Due to possible thread galling, the use of presetting tools is required when assembling stainless steel fittings.

Part number	Tube O.D. (inches)	Thread size
T-7002	1/8	5/16-24
T-7003	3/16	3/8-24
T-7004	1/4	7/16-20
T-7005	5/16	1/2-20
T-7006	3/8	9/16-18
T-7008	1/2	3/4-16
T-7010	5/8	7/8-14
T-7012	3/4	1 1/16-12
T-7016	1	1 5/16-12
T-7020	1-1/4	1 5/8-12
T-7024	1-1/2	1 7/8-12

Hose insertion gauges

FF90308



Improve hose assembly reliability with these easy to use aluminum gauges that are designed to ensure proper fitting depth during pre-assembly.

Simply bottom the hose in the appropriately marked cavity and scribe a mark on the hose flush with the top surface of the gauge. Insert the fitting until the back of the socket is aligned with scribe line.

Part number	Usage
FF90308-01	For use with all hoses that mate with -4 through -16 Z-series fittings
FF90308-02	For use with all hoses that mate with -20, -24, and -32 Z-series fittings
FF90308-04	For use with all hoses that mate with -06, -08, -10, -12, -16 spiral 4S/6S fittings
FF90308-05	For use with all hoses that mate with -20, -24, -32 spiral 4S/6S fittings

Assembly equipment

Hose preparation

L

Hose bore cleaning brushes

Individual brushes



Hose I.D. (inch)	Part number	Bristle O.D. (inch)	Bristle length (inch)	Overall length (inch)
3/16-3/8	T-1106	3/8	2	24
1/2-5/8	T-1110	1/2	3	24
3/4-1	T-1116	1	4	24
1-1/8-1-1/2	T-1124	1-1/2	4	24
2-3	T-1132	2	5	24

T-1100

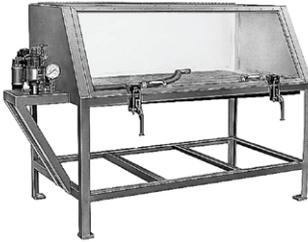
3-Piece kit



Hose I.D. (inch)	Part number	Bristle O.D. (inch)	Bristle length (inch)	Overall length (inch)
3/16-3/8	T-1106	3/8	2	24
1/2-5/8	T-1110	1/2	3	24
3/4-1	T-1116	1	4	24

FT1312

Hose proof test stand



Hose specifications

Assembles up to 2" I.D.,
6 spiral wire

Features

- Designed to use tap water, eliminating the need for a special test fluid
- Compact power unit is air driven
- Air regulator and gauge provide easy pressure adjustment and monitoring
- Tough transparent Lexan™ lid
- 79" x 36" x 53"; 550 lbs

Power unit

The power unit of the FT1312 tester is a compact, economical air driven hydraulic pump. It will provide sufficient hydraulic pressure to proof test any Weatherhead hose assembly, up to 22,000 psi

Lexan is a trademark of General Electric.

FT1312 Standard adapter selection chart

Hose fitting* style and size	Fitting adapter part number	Pressure port adapter part number	Plug or cap part number
SAE 37°(JIC) swivel			
-4	2027-8-4S	**	900599-4
-5	2021-6-5S	2081-12-6S	900599-5
-6	2027-8-6S	**	900599-6
-8	2027-8-8S	**	900599-8
-10	2027-10-08S	**	900599-10
-12	2027-08-12S	**	900599-12
-16	2021-12-16S	**	900599-16
-20	2021-16-20S	2040-12-16S	900599-20
-24	2021-16-24S	2040-12-16S	900599-24
-32	2021-16-32S	2040-12-16S	900599-32
SAE 45° swivel			
-4	2000-06-4B	2081-12-6S	900599-4
-5	2000-06-5B	2081-12-6S	900599-5
-6	2000-06-6B	2081-12-6S	2001-6-6B, 2082-6S
-8	2000-12-8B	**	900599-8
-10	2000-12-10B	**	900599-10
-12	2000-12-12B	**	2001-8-12B, 2082-8S
Male pipe			
-2	2081-08-02S	2081-12-08S	2046-2-2S, 2082-2S
-4	2081-08-04S	2081-12-08S	2046-4-4S, 2082-4S
-6	2081-08-06S	2081-12-08S	2046-6-6S, 2082-6S
-8	2081-08-08S	**	2046-8-8S, 2082-8S
-12		**	2046-12-12S, 2082-12S
-16	2040-12-16S	**	2046-16-16S, 2082-16S
-20	2040-16-20S	2040-12-16S	2046-20-20S, 2082-20S
-24	2040-20-24S	2040-12-16S, 2040-16-20S	2046-24-24S, 2082-24S
-32	2040-24-32S	2040-12-16S, 2040-16-20S, 2040-20-24S	2046-32-32S, 2082-32S

*Two adapters are required per hose assembly to be tested.

**Internal Skive fittings only.

Assembly equipment

Contamination control products

L

FT1455 Series

Projectile cleaning system



FT1455 Series projectile cleaning system

FT1455 Series is focused on eliminating contamination in hydraulic systems. Contamination control is crucial during the preparation processes in assembling fittings on hose, tubes, and pipes.

These systems shoot the FT1355 Series cleaning projectiles through hose, tubes, and pipe assemblies to successfully remove rubber dust and metal particles arising from the hydraulic hose cutting process, remove metal flashings from the hose assembly process (crimping), and remove contaminated oil from hoses, tubes and pipes prior to installation in hydraulics systems.

Features

- Provides industry leading ISO cleanliness levels
- Simple and robust construction
- Available in hand-held and bench-mount configurations
- Ideal for portable small volume applications, and large volume production applications
- Broad variety of projectile and nozzle types and sizes to match application needs
- Minimal setup, works off shop air (80–110 psi)
- Capability: 1/8" to 4 1/2" ID hose, tube or pipe
- Available in kits or individual replacement hardware components
- Kits available with and without projectiles

Typical applications

Hydraulics	<ul style="list-style-type: none">• Removes rubber dust and metal particles from the hydraulic hose cutting process• Removes metal flash from the crimping process on hose and tubes• Removal of contaminated oil from hoses, tubes and pipes in hydraulic systems
Pneumatics	<ul style="list-style-type: none">• Eliminates rubber contamination, metal particles, contaminated oil and moisture that causes breakdowns and inefficiency
Heat exchangers & condenser	<ul style="list-style-type: none">• Eliminates contamination that reduces heat transfer resulting in low level performance
Steam boilers	<ul style="list-style-type: none">• Removes most scaling in steam pipes for maintenance servicing
Air conditioning & refrigeration	<ul style="list-style-type: none">• Eliminates minute particles in copper tubes and coolant lines that affect system performance
Oxygen & gas	<ul style="list-style-type: none">• Eliminates oil, grease and other contaminants from copper or S/S tubing
Oil, gas & chemical processing	<ul style="list-style-type: none">• Efficient cleaning of pipes as part of service maintenance
Earthmoving equipment	<ul style="list-style-type: none">• Maintenance reduction in flushing time and filter usage
Automotive & servicing	<ul style="list-style-type: none">• Cleaning of fuel lines and brake lines prior to assembly and servicing of components
Food & beverage	<ul style="list-style-type: none">• Product recovery retrieval of product from lines. Reducing or eliminating solvents or detergents
Gun barrels	<ul style="list-style-type: none">• To remove rust, scale or powder residue much faster than brushing or swabbing

For more information on the Contamination Control Products go to E-HOIN-TT032-E2.

FT1455 Series Hardware

FT1455-L1



Hand held projectile cleaning hardware for small hose diameters (up to 1-1/4" hose ID)

- Capability – For use with 1/8" through 1/4" ID hose, tube or pipe assemblies
- Construction – Simple construction with durable brass and aluminum parts with rigid plastic handle
- Form factor – Hand-held, portable - ideal for mobile applications

- Typical applications: small volume hose shop environments
- Includes hand-held launcher hardware only. Does not include adapter rings and nozzles for operation. Intended for replacement purposes only

FT1455-L2



Hand held projectile cleaning hardware for medium hose diameters (up to 2" hose ID)

- Capability – For use with 1/8" through 2" ID hose, tube or pipe assemblies
- Construction - Precision machined aluminum with fully anodized components
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use

- Typical applications: Production hose and tube shops, mobile hose fabricators and mobile applications
- Includes hand-held launcher hardware only. Does not include adapter rings and nozzles for operation. Intended for replacement purposes only

FT1455-L3



Hand held projectile cleaning hardware for large hose diameters (up to 3-1/2" hose ID)*

- Capability – For use with 1/8" through 3-1/2" ID hose, tube or pipe assemblies
- Construction - Precision machined aluminum with fully anodized components
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use

- Typical applications: Production hose and tube shops, mobile hose fabricators and mobile applications
- Includes hand-held launcher hardware only. Does not include adapter rings and nozzles for operation. Intended for replacement purposes only

FT1455-L4



Bench mount projectile cleaning hardware kit for small hose diameters (up to 1-1/4" hose ID)

- Capability – For use with 1/8" through 1-1/4" ID hose, tube or pipe assemblies
- Construction – Stainless steel housing with anodized aluminum components
- Form factor – Bench mount – ideal for production assemblies (1.2 second cycle time)

- Typical applications: Production hose and tube shops
- Includes bench mount launcher hardware, 5 micron air filter, pneumatic foot switch and twin line air hose and 7 nozzles for hose ID ranging from 1/4" through 1-1/4"

Note: For proper operation the following are required:

- 80 psi (5.5 Bar) minimum to 110 psi (7.5 Bar) maximum air pressure
- 1/2" ID air hose with a minimum of 55 SCFM (1.6 m³/min) air flow rate†
- 5 micron air filter and regulator with gauge are strongly suggested
- A large industrial compressor is strongly recommended
- A compressed air dryer is strongly recommended

†A minimum of 38 SCFM (1.1 m³/min) air flow rate at 80 psi (5.5 bar) is required for FT1455-L3 launcher

*FT1455-L3 can be converted to work on hose ID up to 4" with the addition of FT1455-N-45 4-1/2" aluminum locking nozzle.

Assembly equipment

Contamination control products

L

FT1455 Series

Projectile cleaning system kits

FT1455-K1



Hand held projectile cleaning kit for small hose diameters (up to 1-1/4" hose ID)

- Capability – For use with 1/4" through 1-1/4" ID hose, tube or pipe assemblies
- Construction – Simple construction with durable brass and aluminum parts with rigid plastic handle

- Form factor – Hand-held, portable – ideal for mobile applications
- Typical applications – small volume hose shop environments

FT1455-K2



Hand held projectile cleaning starter kit for small hose diameters (up to 1-1/4" hose ID)

- Capability – For use with 1/4" through 1-1/4" ID hose, tube or pipe assemblies
- Construction – Simple construction with durable brass and aluminum parts with rigid plastic handle

- Form factor – Hand-held, portable – ideal for mobile applications
- Typical applications – small volume hose shop environments
- Catch can not included

FT1455-K3



Hand held projectile cleaning kit for medium hose diameters (up to 2" hose ID)

- Capability – For use with 1/4" through 2" ID hose, tube or pipe assemblies
- Construction – Precision machined aluminum with fully anodized components

- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications – Production hose and tube shops, mobile hose fabricators and mobile applications

FT1455-K4



Hand held projectile cleaning kit for medium hose diameters (up to 2" hose ID)

- Capability – For use with 1/8" through 2" ID hose, tube or pipe assemblies
- Construction – Precision machined aluminum with fully anodized components

- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications – Production hose and tube shops, mobile hose fabricators and mobile applications

FT1455-K5



Hand held projectile cleaning hardware kit for large hose diameters (up to 3-1/2" hose ID)

- Capability – For use with 1/8" through 4-1/2" hose, tube or pipe assemblies
- Construction – Precision machined aluminum with fully anodized components

- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications – Production hose and tube shops, mobile hose fabricators and mobile applications

FT1455 Series Cleaning nozzles

Broad variety of nozzles are available allowing the operator to select the ideal nozzle for each application based on the different size and type of hoses, hose fittings, tube and pipe assemblies. All nozzle sizes are denoted by the projectile exit diameter (mm).



FT1455-N-HXX

Nozzles for hose assemblies

- Universal nozzle for use with hoses
- Also work on pipe, heavy walled tubing and many fitting configurations



FT1455-NT-XX

Nozzles for tube assemblies (Inch)

- Nominal inch tube nozzles have a lip on the inside that forms an airtight seal when tube is fully inserted into the nozzle



FT1455-J-XX

Nozzles for hose assemblies with JIC fittings

- Nozzles molded with 37° male flare on tip to fit female JIC fittings on hose assemblies



FT1455-NT-XXXXX

Nozzles for tube assemblies (Metric)

- Metric tube nozzles have a lip on the inside that forms an airtight seal when tube is fully inserted into the nozzle
- Metric tube nozzle designations utilize the largest wall thickness for a given outside diameter, but fit all smaller wall thicknesses as well

Part number	Description
FT1455-N-HXX	Nozzles for hose assemblies
FT1455-N-H06	Hose nozzle (1/4")
FT1455-N-H08	Hose nozzle (5/16")
FT1455-N-H10	Hose nozzle (3/8")
FT1455-N-H13	Hose nozzle (1/2")
FT1455-N-H16	Hose nozzle (5/8")
FT1455-N-H19	Hose nozzle (3/4")
FT1455-N-H25	Hose nozzle (1")
FT1455-N-H32	Hose nozzle (1 1/4")
FT1455-N-H38	Hose nozzle (1 1/2")
FT1455-N-H50	Hose nozzle (2")
FT1455-N-U55	Universal hose nozzle (1 1/8" thru 3 1/2")
FT1455-N-45	4 1/2" aluminum locking nozzle

FT1455-J-XX	Nozzles for hose assemblies with JIC fittings
FT1455-J-06	JIC nozzle (4 1/2")
FT1455-J-10	JIC nozzle (4 1/2")
FT1455-J-13	JIC/TUBE nozzle (-8, 1/2")
FT1455-J-16	JIC/TUBE nozzle (-10, 5/8")
FT1455-J-19	JIC/TUBE nozzle (-12, 3/4")
FT1455-J-25	JIC/TUBE nozzle (-16, 1" & 7/8")
FT1455-J-32	JIC/TUBE nozzle (-20, 1 1/4" & 1")
FT1455-J-38	JIC/TUBE nozzle (-24, 1 1/2")
FT1455-J-50	JIC/TUBE nozzle (-32, 2")

FT1455-NT-XX	Nozzles for tube assemblies (Inch)
FT1455-NT-32	TUBE nozzle 1 1/4" OD
FT1455-NT-06	TUBE nozzle 1/4" OD
FT1455-NT-03	TUBE nozzle 1/8" OD
FT1455-NT-10	TUBE nozzle 3/8" OD
FT1455-NT-08	TUBE nozzle 5/16" OD

FT1455-NT-XX	Nozzles for tube assemblies (Metric) Outside diameter X wall thickness
FT1455-NT-06x1.5	Metric tube nozzle UC-6 X 1.5
FT1455-NT-08x1.5	Metric tube nozzle UC-8 X 1.5
FT1455-NT-10x1.5	Metric tube nozzle UC-10 X 1.5
FT1455-NT-12x2.0	Metric tube nozzle UC-12 X 2.0
FT1455-NT-14x2.0	Metric tube nozzle UC-14 X 2.0
FT1455-NT-15x2.0	Metric tube nozzle UC-15 X 2.0
FT1455-NT-16x2.5	Metric tube nozzle UC-16 X 2.5
FT1455-NT-18x2.5	Metric tube nozzle UC-18 X 2.5
FT1455-NT-20x3.0	Metric tube nozzle UC-20 X 3.0
FT1455-NT-22x2.0	Metric tube nozzle UC-22 X 2.0
FT1455-NT-25x3.0	Metric tube nozzle UC-25 X 3.0
FT1455-NT-28x2.5	Metric tube nozzle UC-28 X 2.5
FT1455-NT-30x4.0	Metric tube nozzle UC-30 X 4.0
FT1455-NT-35x3.0	Metric tube nozzle UC-35 X 3.0
FT1455-NT-38x5.0	Metric tube nozzle UC-38 X 5.0
FT1455-NT-42x3.0	Metric tube nozzle UC-42 X 3.0
FT1455-NT-50x5.0	Metric tube nozzle UC-50 X 5.0
FT1455-4FFORX	Nozzle for use with flat face O-Ring seal fittings (FROS)

Assembly equipment

Contamination control products

L

FT1455 Series

Adapter & locking rings



FT1455-L2-AR1

Adapter ring

Adapter ring for FT1455-L2 launcher to receive 1/8" thru 1-1/4" nozzles

- FT1455-L2-AR1 adapter ring fits the FT1455-L2 hand held launcher and all nozzle types and sizes between 1/8" and 1-1/4"



FT1455-L3-LR

Locking ring

3-1/2" aluminum locking ring for FT1455-L3 launcher

- FT1455-L3-LR locking ring fits FT1455-L3 hand held launcher, both FT1455-L3-AR2 & FT1455-L3-AR3 adapter rings, and FT1455-N-U55 Universal hose nozzle



FT1455-L3-AR2

Adapter ring

Adapter ring for FT1455-L3 launcher to receive 1/8" thru 1-1/4" nozzles

- FT1455-L3-AR2 adapter ring fits the FT1455-L3 hand held launcher and all nozzle types and sizes between 1/8" and 1-1/4"



FT1455-L3-AR3

Adapter ring

Adapter ring for FT1455-L3 launcher to receive 1-1/2" thru 2" nozzles

- FT1455-L3-AR2 adapter ring fits the FT145

FT1455 Series Accessories



FT1455-NH25

Desktop nozzle holder

- The desktop nozzle holder is a great alternative to storing the nozzles in the carrying case
- Can be easily attached to the workbench and offers easy access during change overs and operation
- Accommodates all types of nozzles ranging from 1/4" to 2"



FT1455-QC

Quick release coupling

- Quick release coupling offers a quick disconnect and exchange of air supply to all 3 models of hand held projectile launchers
- Ideal for portable applications that require frequent disconnects



FT1455-CC

Carrying case

- Convenient carrying case to store and carry the hand held projectile launchers and relevant nozzles
- Works with all 3 models of hand held projectile launchers

FT1455 Operating Instructions



E-HOAI-CC001-E
FT1455-L1 Hand Launcher
Operating Instructions



E-HOAI-CC002-E
FT1455-L2 Hand Launcher
Operating Instructions



E-HOAI-CC003-E
FT1455-L3 Hand Launcher
Operating Instructions



E-HOAI-CC004-E
FT1455-L4 Bench Mount
Launcher Operating
Instructions

Assembly equipment

Contamination control products

L

FT1455 and FT1355 Series

Recommended nozzles and cleaning projectiles for hoses and hose assemblies

Recommendations for hoses

Nominal hose diameter

Inches	mm	Nozzle part no.	Cleaning projectile part no.
3/16	05	FT1455-N-H06	FT1355-H-06 -
1/4	06	FT1455-N-H06	FT1355-H-10 or FT1355-H-12
5/16	08	FT1455-N-H08	FT1355-H-12 or FT1355-H-14
3/8	10	FT1455-N-H10	FT1355-H-14 or FT1355-H-16
1/2	13	FT1455-N-H13	FT1355-H-18 or FT1355-H-20
5/8	16	FT1455-N-H16	FT1355-H-22 -
3/4	19	FT1455-N-H19	FT1355-H-26 -
1	25	FT1455-N-H25	FT1355-H-33 or FT1355-H-36
1 1/4	32	FT1455-N-H32	FT1355-H-40 or FT1355-H-45
1 1/2	38	FT1455-N-H38	FT1355-H-50 or FT1355-H-55
2	50	FT1455-N-H50	FT1355-H-60 or FT1355-H-65
2 1/2	63	FT1455-N-U55	FT1355-H-75 -
3	76	FT1455-N-U55	FT1355-H-85 -
3 1/2	89	FT1455-N-U55	FT1355-H-100 -
4	102	FT1455-N-45	- -
4 1/2	114	FT1455-N-45	- -

Recommendations for hose assemblies with ORS fittings

ORS fitting dash size	Nozzle part no.	Cleaning projectile part no.
-4	FT1455-4FFORX	FT1355-H-06 or FT1355-H-07
-6	FT1455-N-H06	FT1355-H-12 -
-8	FT1455-N-H10	FT1355-H-16 -
-10	FT1455-N-H13	FT1355-H-22 -
-12	FT1455-N-H16	FT1355-H-26 -
-16	FT1455-N-H19	FT1355-H-33 -
-20	FT1455-N-H25	FT1355-H-40 -

Recommendations for hose assemblies with Code 61 or 62 flanges

Code 61 or 62 flange dash size	Nozzle part no.	Cleaning projectile part no.
-8	FT1455-N-H10	FT1355-H-16
-10	FT1455-N-H13	FT1355-H-22
-12	FT1455-N-H16	FT1355-H-26
-16	FT1455-N-H19	FT1355-H-33
-20	FT1455-N-H25	FT1355-H-40
-24	FT1455-N-H32	FT1355-H-50
-32	FT1455-N-H32	FT1355-H-60

Recommendations for hose assemblies with JIC fittings

JIC fitting dash size	Nozzle part no.	Cleaning projectile part no.
-4	FT1455-J-06	FT1355-H-06 or FT1355-H-07
-6	FT1455-J-10	FT1355-H-12
-8	FT1455-J-13	FT1355-H-16
-10	FT1455-J-16	FT1355-H-22
-12	FT1455-J-19	FT1355-H-26
-16	FT1455-J-25	FT1355-H-33
-20	FT1455-J-32	FT1355-H-40
-24	FT1455-J-38	FT1355-H-50
-32	FT1455-J-50	FT1355-H-60

FT1455 and FT1355 Series

Recommended nozzles and cleaning projectiles for pipes and tubes

Recommended nozzles and cleaning projectiles for pipes (inch)

SCH 40	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #
1/4"	FT1455-N-H08	FT1355-H-14	FT1355-A-12
3/8"	FT1455-N-H13	FT1355-H-18	FT1355-A-16
1/2"	FT1455-N-H16	FT1355-H-20	FT1355-A-18
3/4"	FT1455-N-H19	FT1355-H-30	FT1355-A-26
1"	FT1455-N-H25	FT1355-H-36	FT1355-A-33
1 1/4"	FT1455-N-H32	FT1355-H-45	FT1355-A-40
1 1/2"	FT1455-N-H38	FT1355-H-55	FT1355-A-50
2"	FT1455-N-H50	FT1355-H-65	-
2 1/2"	FT1455-N-U55	FT1355-H-75	-
3"	FT1455-N-U55	FT1355-H-85	-
3 1/2"	FT1455-N-U55	FT1355-H-100	-

SCH 80	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #
1/4"	FT1455-N-H06	FT1355-H-12	FT1355-A-10
3/8"	FT1455-N-H10	FT1355-H-16	FT1355-A-14
1/2"	FT1455-N-H13	FT1355-H-20	FT1355-A-16 or FT1355-A-18
3/4"	FT1455-N-H19	FT1355-H-26	FT1355-A-22
1"	FT1455-N-H25	FT1355-H-36	FT1355-A-30
1 1/4"	FT1455-N-H32	FT1355-H-45	FT1355-A-40
1 1/2"	FT1455-N-H38	FT1355-H-50	FT1355-A-45
2"	FT1455-N-H38	FT1355-H-60	FT1355-A-55
2 1/2"	FT1455-N-H50	FT1355-H-70	-
3"	FT1455-N-U55	FT1355-H-85	-
3 1/2"	FT1455-N-U55	FT1355-H-100	-

SCH 160	Nozzle Part #	Cleaning projectile part #	Abrasive projectile part #
1/2"	FT1455-N-H10	FT1355-H-16	FT1355-A-14
3/4"	FT1455-N-H16	FT1355-H-20	FT1355-A-18
1"	FT1455-N-H19	FT1355-H-30	FT1355-A-26
1 1/4"	FT1455-N-H25	FT1355-H-36	FT1355-A-33
1 1/2"	FT1455-N-H32	FT1355-H-45	FT1355-A-40
2"	FT1455-N-H38	FT1355-H-55	FT1355-A-45 or FT1355-A-50
2 1/2"	FT1455-N-H50	FT1355-H-65	FT1355-A-60
3"	FT1455-N-U55	FT1355-H-75	-
4"	FT1455-N-U55	FT1355-H-100	-

Recommended nozzles and cleaning projectiles for tubes (inch)

Outside diameter x wall thickness	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #	Tube projectile part #
1/8" X 0.030"	FT1455-NT-3	-	-	-
1/4" X 0.035"	FT1455-NT-6	FT1355-H-10	FT1355-A-07	FT1355-T-06
1/4" X 0.049"	FT1455-NT-6	FT1355-H-08	FT1355-A-07	FT1355-T-06
1/4" X 0.065"	FT1455-NT-6	FT1355-H-07	-	FT1355-T-06
5/16" X 0.035"	FT1455-NT-8	FT1355-H-12	FT1355-A-10	FT1355-T-07
3/8" X 0.035"-0.049"	FT1455-NT-10	FT1355-H-14	FT1355-A-12	FT1355-T-10
3/8" X 0.065"	FT1455-NT-10	FT1355-H-12	FT1355-A-10	FT1355-T-10
1/2" X 0.035"	FT1455-J-13	FT1355-H-16	FT1355-A-16	FT1355-T-14
1/2" X 0.049"	FT1455-J-13	FT1355-H-16	FT1355-A-16	FT1355-T-12
1/2" X 0.065"	FT1455-J-13	FT1355-H-16	FT1355-A-14	FT1355-T-12
1/2" X 0.083"	FT1455-J-13	FT1355-H-14	FT1355-A-12	FT1355-T-12
5/8" X 0.049"	FT1455-J-16	FT1355-H-22	FT1355-A-20	FT1355-T-16
5/8" X 0.065"	FT1455-J-16	FT1355-H-20	FT1355-A-18	FT1355-T-16
5/8" X 0.083"	FT1455-J-16	FT1355-H-20	FT1355-A-18	FT1355-T-14
3/4" X 0.049"-0.065"	FT1455-J-19	FT1355-H-26	FT1355-A-24	FT1355-T-20
3/4" X 0.095"	FT1455-J-19	FT1355-H-22	FT1355-A-20	FT1355-T-18
7/8" X 0.049"	FT1455-J-25	FT1355-H-33	FT1355-A-30	FT1355-T-26
7/8" X 0.065"	FT1455-J-25	FT1355-H-30	FT1355-A-28	FT1355-T-22
7/8" X 0.095"	FT1455-N-H16	FT1355-H-28	FT1355-A-26	FT1355-T-22
1" X 0.065"	FT1455-J-32	FT1355-H-33	FT1355-A-30	FT1355-T-28
1" X 0.083"-0.095"	FT1455-J-32	FT1355-H-33	FT1355-A-30	FT1355-T-26
1" X 0.120"	FT1455-J-32	FT1355-H-30	FT1355-A-28	FT1355-T-26
1 1/4" X 0.065"	FT1455-NT-32	FT1355-H-40	FT1355-A-40	FT1355-T-33
1 1/4" X 0.083"	FT1455-NT-32	FT1355-H-40	FT1355-A-36	FT1355-T-33
1 1/4" X 0.095"	FT1455-NT-32	FT1355-H-40	FT1355-A-36	FT1355-T-33
1 1/4" X 0.109"	FT1455-NT-32	FT1355-H-36	FT1355-A-36	FT1355-T-33
1 1/4" X 0.120"	FT1455-NT-32	FT1355-H-36	FT1355-A-33	FT1355-T-33
1 1/2" X 0.065"-0.120"	FT1455-J-38	FT1355-H-50	FT1355-A-45	FT1355-T-40
1 1/2" X 0.134"-0.148"	FT1455-J-38	FT1355-H-45	FT1355-A-40	FT1355-T-40
2" X 0.065"-0.120"	FT1455-J-50	FT1355-H-60	FT1355-A-55	FT1355-T-50
2" X 0.134"-0.188"	FT1455-J-50	FT1355-H-55	FT1355-A-50	FT1355-T-50

Assembly equipment

Contamination control products

L

FT1455 and FT1355 Series

Recommended nozzles and cleaning projectiles for tubes (metric)

Outside diameter x Wall thickness	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #	Tube projectile part #	Outside diameter x wall thickness	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #	Tube projectile part #
6 X 1.0	FT1455-NT-06x1.5	FT1355-H-07	FT1355-A-06	FT1355-T-06	22 X 1	FT1455-NT-22x2.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
6 X 1.5	FT1455-NT-06x1.5	FT1355-H-07	FT1355-A-06	-	22 X 1.5	FT1455-NT-22x2.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
8 X 1.0	FT1455-NT-08x1.5	FT1355-H-10	FT1355-A-07	FT1355-T-07	22 X 2	FT1455-NT-22x2.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
8 X 1.5	FT1455-NT-08x1.5	FT1355-H-10	FT1355-A-07	FT1355-T-07	25 X 2	FT1455-NT-25x3.0	FT1355-H-33	FT1355-A-30	FT1355-T-28
10 X 1.0	FT1455-NT-10x1.5	FT1355-H-14	FT1355-A-12	FT1355-T-12	25 X 2.5	FT1455-NT-25x3.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
10 X 1.5	FT1455-NT-10x1.5	FT1355-H-14	FT1355-A-12	FT1355-T-12	25 X 3	FT1455-NT-25x3.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
12 X 1.0	FT1455-NT-12x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14	28 X 2	FT1455-NT-28x2.5	FT1355-H-36	FT1355-A-33	FT1355-T-33
12 X 1.5	FT1455-NT-12x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14	28 X 2.5	FT1455-NT-28x2.5	FT1355-H-36	FT1355-A-33	FT1355-T-30
12 X 2.0	FT1455-NT-12x2.0	FT1355-H-14	FT1355-A-12	FT1355-T-12	30 X 2	FT1455-NT-30x4.0	FT1355-H-36	FT1355-A-33	FT1355-T-33
14 X 1.0	FT1455-NT-14x2.0	FT1355-H-18	FT1355-A-16	FT1355-T-16	30 X 2.5	FT1455-NT-30x4.0	FT1355-H-36	FT1355-A-33	FT1355-T-30
14 X 1.5	FT1455-NT-14x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14	30 X 3	FT1455-NT-30x4.0	FT1355-H-36	FT1355-A-33	FT1355-T-30
14 X 2.0	FT1455-NT-14x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14	30 X 4	FT1455-NT-30x4.0	FT1355-H-36	FT1355-A-33	FT1355-T-30
15 X 1.0	FT1455-NT-15x2.0	FT1355-H-20	FT1355-A-18	FT1355-T-16	35 X 2	FT1455-NT-35x3.0	FT1355-H-45	FT1355-A-40	FT1355-T-40
15 X 1.5	FT1455-NT-15x2.0	FT1355-H-18	FT1355-A-16	FT1355-T-16	35 X 3	FT1455-NT-35x3.0	FT1355-H-40	FT1355-A-36	FT1355-T-36
15 X 2.0	FT1455-NT-15x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14	35 X 4	FT1455-N-H25	FT1355-H-40	FT1355-A-36	FT1355-T-33
16 X 1.0	FT1455-NT-16x2.5	FT1355-H-22	FT1355-A-20	FT1355-T-18	35 X 5	FT1455-N-H25	FT1355-H-36	FT1355-A-33	FT1355-T-30
16 X 1.5	FT1455-NT-16x2.5	FT1355-H-20	FT1355-A-18	FT1355-T-16	38 X 2.5	FT1455-NT-38x5.0	FT1355-H-50	FT1355-A-45	FT1355-T-40
16 X 2.0	FT1455-NT-16x2.5	FT1355-H-18	FT1355-A-16	FT1355-T-16	38 X 3	FT1455-NT-38x5.0	FT1355-H-50	FT1355-A-45	FT1355-T-40
16 X 2.5	FT1455-NT-16x2.5	FT1355-H-16	FT1355-A-14	FT1355-T-14	38 X 4	FT1455-NT-38x5.0	FT1355-H-45	FT1355-A-40	FT1355-T-40
18 X 1.0	FT1455-NT-18x2.5	FT1355-H-24	FT1355-A-22	FT1355-T-20	38 X 5	FT1455-NT-38x5.0	FT1355-H-40	FT1355-A-36	FT1355-T-36
18 X 1.5	FT1455-NT-18x2.5	FT1355-H-24	FT1355-A-20	FT1355-T-18	42 X 2	FT1455-NT-42x3.0	FT1355-H-55	FT1355-A-50	FT1355-T-50
18 X 2.0	FT1455-NT-18x2.5	FT1355-H-22	FT1355-A-20	FT1355-T-18	42 X 3	FT1455-NT-42x3.0	FT1355-H-50	FT1355-A-50	FT1355-T-45
18 X 2.5	FT1455-NT-18x2.5	FT1355-H-20	FT1355-A-18	FT1355-T-16	50 X 3	FT1455-NT-50x5.0	FT1355-H-60	FT1355-A-55	FT1355-T-55
20 X 1.5	FT1455-NT-20x3.0	FT1355-H-26	FT1355-A-24	FT1355-T-22	50 X 5	FT1455-NT-50x5.0	FT1355-H-55	FT1355-A-55	FT1355-T-50
20 X 2.0	FT1455-NT-20x3.0	FT1355-H-24	FT1355-A-22	FT1355-T-20	50 X 6	FT1455-NT-50x5.0	FT1355-H-55	FT1355-A-50	FT1355-T-50
20 X 2.5	FT1455-NT-20x3.0	FT1355-H-24	FT1355-A-20	FT1355-T-18					
20 X 3	FT1455-NT-20x3.0	FT1355-H-22	FT1355-A-20	FT1355-T-18					

FT1355 Series

Cleaning projectiles for hose, tube and pipe assemblies

FT1355 cleaning projectiles work by being compressed against the internal surface of the hose, tube or pipe. Cleaning projectile selection should favor a diameter 20% to 30% larger than the internal diameter of the hose, tube or pipe being cleaned.

Projectiles are available in 3 variations as outlined below, and are manufactured from virgin materials with a specific cell structure and density to match the application's needs. Appropriate selection of the cleaning projectile based on the type of application ensures effective cleaning.



FT1355-H-XX

Hose cleaning projectiles for hose assemblies

- Universal cleaning projectile for use with hose, tube and pipe assemblies
- Removes fine particles of loose contaminants after cutting operations
- Can also be used for product purging prior to assembly

FT1355-H-XX Cleaning projectiles for hose assemblies

Part no.	Description
FT1355-H-05	Hose cleaning projectile (05mm)
FT1355-H-06	Hose cleaning projectile (06mm)
FT1355-H-07	Hose cleaning projectile (07mm)
FT1355-H-08	Hose cleaning projectile (08mm)
FT1355-H-10	Hose cleaning projectile (10mm)
FT1355-H-12	Hose cleaning projectile (12mm)
FT1355-H-14	Hose cleaning projectile (14mm)
FT1355-H-16	Hose cleaning projectile (16mm)
FT1355-H-18	Hose cleaning projectile (18mm)
FT1355-H-20	Hose cleaning projectile (20mm)
FT1355-H-22	Hose cleaning projectile (22mm)
FT1355-H-24	Hose cleaning projectile (24mm)
FT1355-H-26	Hose cleaning projectile (26mm)
FT1355-H-28	Hose cleaning projectile (28mm)
FT1355-H-30	Hose cleaning projectile (30mm)
FT1355-H-33	Hose cleaning projectile (33mm)
FT1355-H-36	Hose cleaning projectile (36mm)
FT1355-H-40	Hose cleaning projectile (40mm)
FT1355-H-45	Hose cleaning projectile (45mm)
FT1355-H-50	Hose cleaning projectile (50mm)
FT1355-H-55	Hose cleaning projectile (55mm)
FT1355-H-60	Hose cleaning projectile (60mm)
FT1355-H-65	Hose cleaning projectile (65mm)
FT1355-H-70	Hose cleaning projectile (70mm)
FT1355-H-75	Hose cleaning projectile (75mm)
FT1355-H-80	Hose cleaning projectile (80mm)
FT1355-H-85	Hose cleaning projectile (85mm)
FT1355-H-90	Hose cleaning projectile (90mm)
FT1355-H-95	Hose cleaning projectile (95mm)
FT1355-H-100	Hose cleaning projectile (100mm)

Assembly equipment

Contamination control products

L

FT1355 Series

Cleaning projectiles for tube and pipe assemblies



FT1355-A-XX

Abrasive cleaning projectiles for tube and pipe assemblies

- For use with tubes or pipe assemblies
- Removes mild to medium amounts of contaminants including surface rust and scale build-up
- Can be used multiple times

FT1355-A-XX Abrasive cleaning projectiles for tube and pipe assemblies

Part no.	Description
FT1355-A-06	Abrasive cleaning projectile (06mm)
FT1355-A-07	Abrasive cleaning projectile (07mm)
FT1355-A-10	Abrasive cleaning projectile (10mm)
FT1355-A-12	Abrasive cleaning projectile (12mm)
FT1355-A-14	Abrasive cleaning projectile (14mm)
FT1355-A-16	Abrasive cleaning projectile (16mm)
FT1355-A-18	Abrasive cleaning projectile (18mm)
FT1355-A-20	Abrasive cleaning projectile (20mm)
FT1355-A-22	Abrasive cleaning projectile (22mm)
FT1355-A-24	Abrasive cleaning projectile (24mm)
FT1355-A-26	Abrasive cleaning projectile (26mm)
FT1355-A-28	Abrasive cleaning projectile (28mm)
FT1355-A-30	Abrasive cleaning projectile (30mm)
FT1355-A-33	Abrasive cleaning projectile (33mm)
FT1355-A-36	Abrasive cleaning projectile (36mm)
FT1355-A-40	Abrasive cleaning projectile (40mm)
FT1355-A-45	Abrasive cleaning projectile (45mm)
FT1355-A-50	Abrasive cleaning projectile (50mm)
FT1355-A-55	Abrasive cleaning projectile (55mm)
FT1355-A-60	Abrasive cleaning projectile (60mm)



FT1355-T-XX

Tube cleaning projectiles for tube and pipe assemblies

- Cleaning projectiles for use with tube and pipe assemblies
- Removes mild to medium amounts of contaminants including surface rust and scale build-up
- Removes mandrel lubricants, grease and other oils typically used in bending processes
- Strongly recommended for cleaning stainless steel tubes

FT1355-T-XX Tube cleaning projectiles for tube assemblies

Part no.	Description
FT1355-T-06	Tube cleaning projectile (06mm)
FT1355-T-07	Tube cleaning projectile (07mm)
FT1355-T-10	Tube cleaning projectile (10mm)
FT1355-T-12	Tube cleaning projectile (12mm)
FT1355-T-14	Tube cleaning projectile (14mm)
FT1355-T-16	Tube cleaning projectile (16mm)
FT1355-T-18	Tube cleaning projectile (18mm)
FT1355-T-20	Tube cleaning projectile (20mm)
FT1355-T-22	Tube cleaning projectile (22mm)
FT1355-T-24	Tube cleaning projectile (24mm)
FT1355-T-26	Tube cleaning projectile (26mm)
FT1355-T-28	Tube cleaning projectile (28mm)
FT1355-T-30	Tube cleaning projectile (30mm)
FT1355-T-33	Tube cleaning projectile (33mm)
FT1355-T-36	Tube cleaning projectile (36mm)
FT1355-T-40	Tube cleaning projectile (40mm)
FT1355-T-45	Tube cleaning projectile (45mm)
FT1355-T-50	Tube cleaning projectile (50mm)
FT1355-T-55	Tube cleaning projectile (55mm)
FT1355-T-60	Tube cleaning projectile (60mm)

FT1355 Series

Cleaning projectile selection ordering guidelines

Order quantity is one bag
(ex.. A 1 piece order will be for the full bag quantity noted below)

Eaton projectile part number	Description	Qty / bag	Eaton projectile part number	Description	Qty / bag	Eaton projectile part number	Description	Qty / bag
FT1355-A-06	ABRASIVE (06mm) (Pkg 100)	100	FT1355-H-12	Low density hose projectile (12mm) (Pkg 100)	100	FT1355-T-07	Tube projectile (07mm) (Pkg 100)	100
FT1355-A-07	ABRASIVE (07mm) (Pkg 100)	100	FT1355-H-14	Low density hose projectile (14mm) (Pkg 100)	100	FT1355-T-10	Tube projectile (10mm) (Pkg 100)	100
FT1355-A-10	ABRASIVE (10mm) (Pkg 100)	100	FT1355-H-16	Low density hose projectile (16mm) (Pkg 100)	100	FT1355-T-12	Tube projectile (12mm) (Pkg 100)	100
FT1355-A-12	ABRASIVE (12mm) (Pkg 100)	100	FT1355-H-18	Low density hose projectile (18mm) (Pkg 100)	100	FT1355-T-14	Tube projectile (14mm) (Pkg 100)	100
FT1355-A-14	ABRASIVE (14mm) (Pkg 100)	100	FT1355-H-20	Low density hose projectile (20mm) (Pkg 50)	50	FT1355-T-16	Tube projectile (16mm) (Pkg 100)	100
FT1355-A-16	ABRASIVE (16mm) (Pkg 100)	100	FT1355-H-22	Low density hose projectile (22mm) (Pkg 50)	50	FT1355-T-18	Tube projectile (18mm) (Pkg 100)	100
FT1355-A-18	ABRASIVE (18mm) (Pkg 100)	100	FT1355-H-24	Low density hose projectile (24mm) (Pkg 50)	50	FT1355-T-20	Tube projectile (20mm) (Pkg 50)	50
FT1355-A-20	ABRASIVE (20mm) (Pkg 50)	50	FT1355-H-26	Low density hose projectile (26mm) (Pkg 50)	50	FT1355-T-22	Tube projectile (22mm) (Pkg 50)	50
FT1355-A-22	ABRASIVE (22mm) (Pkg 50)	50	FT1355-H-28	Low density hose projectile (28mm) (Pkg 40)	40	FT1355-T-24	Tube projectile (24mm) (Pkg 50)	50
FT1355-A-24	ABRASIVE (24mm) (Pkg 50)	50	FT1355-H-30	Low density hose projectile (30mm) (Pkg 40)	40	FT1355-T-26	Tube projectile (26mm) (Pkg 50)	50
FT1355-A-26	ABRASIVE (26mm) (Pkg 50)	50	FT1355-H-33	Low density hose projectile (33mm) (Pkg 40)	40	FT1355-T-28	Tube projectile (28mm) (Pkg 40)	40
FT1355-A-28	ABRASIVE (28mm) (Pkg 40)	40	FT1355-H-36	Low density hose projectile (36mm) (Pkg 30)	30	FT1355-T-30	Tube projectile (30mm) (Pkg 40)	40
FT1355-A-30	ABRASIVE (30mm) (Pkg 40)	40	FT1355-H-40	Low density hose projectile (40mm) (Pkg 30)	30	FT1355-T-33	Tube projectile (33mm) (Pkg 40)	40
FT1355-A-33	ABRASIVE (33mm) (Pkg 40)	40	FT1355-H-45	Low density hose projectile (45mm) (Pkg 20)	20	FT1355-T-36	Tube projectile (36mm) (Pkg 30)	30
FT1355-A-36	ABRASIVE (36mm) (Pkg 30)	30	FT1355-H-50	Low density hose projectile (50mm) (Pkg 20)	20	FT1355-T-40	Tube projectile (40mm) (Pkg 30)	30
FT1355-A-40	ABRASIVE (40mm) (Pkg 30)	30	FT1355-H-55	Low density hose projectile (55mm) (Pkg 15)	15	FT1355-T-45	Tube projectile (45mm) (Pkg 20)	20
FT1355-A-45	ABRASIVE (45mm) (Pkg 20)	20	FT1355-H-60	Low density hose projectile (55mm) (Pkg 15)	15	FT1355-T-50	Tube projectile (50mm) (Pkg 20)	20
FT1355-A-50	ABRASIVE (50mm) (Pkg 20)	20	FT1355-H-65	Low density hose projectile (60mm) (Pkg 15)	15	FT1355-T-55	Tube projectile (55mm) (Pkg 15)	15
FT1355-A-55	ABRASIVE (55mm) (Pkg 15)	15	FT1355-H-70	Low density hose projectile (65mm) (Pkg 10)	10	FT1355-T-60	Tube projectile (60mm) (Pkg 15)	15
FT1355-A-60	ABRASIVE (60mm) (Pkg 15)	15	FT1355-H-75	Low density hose projectile (70mm) (Pkg 10)	10			
FT1355-H-05	Low density hose projectile (05mm) (Pkg 100)	100	FT1355-H-80	Low density hose projectile (80mm) (Pkg 10)	10			
FT1355-H-06	Low density hose projectile (06mm) (Pkg 100)	100	FT1355-H-85	Low density hose projectile (85mm) (Pkg 10)	10			
FT1355-H-07	Low density hose projectile (07mm) (Pkg 100)	100	FT1355-H-90	Low density hose projectile (90mm) (Pkg 10)	10			
FT1355-H-08	Low density hose projectile (08mm) (Pkg 100)	100	FT1355-H-95	Low density hose projectile (95mm) (Pkg 10)	10			
FT1355-H-10	Low density hose projectile (10mm) (Pkg 100)	100	FT1355-H-100	Low density hose projectile (100mm) (Pkg 10)	10			
FT1355-H-100	Low density hose projectile (100mm) (Pkg 100)	100	FT1355-T-06	Tube projectile (06mm) (Pkg 100)	100			

Assembly equipment

Contamination control products

L

FT1355 Series

Cleaning projectile selection ordering guidelines

Order quantity is one bag
(ex. A 1 piece order will be for the full bag quantity noted below)

FT1355 foam projectile part #’ s for FT1455 projectile launchers	Order quantity is one bag .(ex.. A 1 piece order will be for the full bag quantity noted below)	Inner Diameter (ID) in inches of cut hose, and Hose assembly Dash size
FT1355-H-06	100	3/16" (-03)
FT1355-H-10 (or)	100	1/4" (-04)
FT1355-H-12*	100	
FT1355-H-12 (or)	100	
FT1355-H-14*	100	5/16" (-05)
FT1355-H-14 (or)	100	
FT1355-H-16*	100	3/8" (-06)
FT1355-H-18 (or)	100	
FT1355-H-20*	50	1/2" (-08)
FT1355-H-22	50	5/8" (-10)
FT1355-H-26	50	3/4" (-12)

FT1355 foam projectile part #’ s for FT1455 projectile launchers	Order quantity is one bag .(ex.. A 1 piece order will be for the full bag quantity noted below)	Inner Diameter (ID) in inches of cut hose, and Hose assembly Dash size
FT1355-H-33 (or)	40	1" (-16)
FT1355-H-36*	30	
FT1355-H-40	30	1 1/4" (-20)
FT1355-H-45*	20	
FT1355-H-50 (or)	20	1 1/2" (-24)
FT1355-H-55*	15	
FT1355-H-60 (or)	15	2" (-32)
FT1355-H-65*	10	
FT1355-H-75	10	2 1/2" (-40)
FT1355-H-85	10	3" (-48)
FT1355-H-100	10	3 1/2" (-64)

Note: * Use the larger projectile size for maximum cleaning on hose cut with an abrasive wheel

FT1555 CapSeal System



FT1555 Series CapSeal system

The FT1555 CapSeal system is intended to be used in conjunction with the FT1355 and FT1455 series projectile cleaning systems to prevent recontamination of hose, tube, and pipe assemblies. The FT1555 CapSeal system utilizes heat shrink technology to encapsulate the end of a hose or tube assembly with an FT1555 CapSeal capsule.

Features

- Provides industry leading ISO cleanliness levels
- Robust construction for use in heavy duty applications
- Available in hand-held and bench-mount configurations
- Ideal for portable small volume applications, and large volume production applications
- Optimum CapSeal capsule design to meet a broad variety of applications
- Minimal setup
- Capability: 1/4" to 2" ID hose and fitting ends
- Available in kits or individual replacement hardware components
- Kits available with and without projectiles

Typical applications

Hydraulics	<ul style="list-style-type: none"> • Removes rubber dust and metal particles from the hydraulic hose cutting process • Removes metal flash from the crimping process on hose and tubes • Removal of contaminated oil from hoses, tubes and pipes in hydraulic systems
Pneumatics	<ul style="list-style-type: none"> • Eliminates rubber contamination, metal particles, contaminated oil and moisture that causes breakdowns and inefficiency
Heat exchangers and condenser	<ul style="list-style-type: none"> • Eliminates contamination that reduces heat transfer resulting in low level performance
Steam boilers	<ul style="list-style-type: none"> • Removes most scaling in steam pipes for maintenance servicing
Air conditioning and refrigeration	<ul style="list-style-type: none"> • Eliminates minute particles in copper tubes and coolant lines that affect system performance
Oxygen and gas	<ul style="list-style-type: none"> • Eliminates oil, grease and other contaminants from copper or S/S tubing
Oil, gas and chemical processing	<ul style="list-style-type: none"> • Efficient cleaning of pipes as part of service maintenance
Earthmoving equipment	<ul style="list-style-type: none"> • Maintenance reduction in flushing time and filter usage
Automotive and servicing	<ul style="list-style-type: none"> • Cleaning of fuel lines and brake lines prior to assembly and servicing of components
Food and beverage	<ul style="list-style-type: none"> • Product recovery retrieval of product from lines. Reducing or eliminating solvents or detergents
Gun barrels	<ul style="list-style-type: none"> • To remove rust, scale or powder residue much faster than brushing or swabbing

Assembly equipment

Contamination control products

L

FT1555 CapSeal System

Hardware

FT1555-HH



Hand held electric heat gun

- Variable temperature electronic heat gun with electronic thermocouple control
- Duratherm heating element ensure long life and even heat temperature range of 120°F (49°C) to 1100°F (593°C) and a built-in cool down switch
- Case not included
- Capable of sealing multiple hoses simultaneously
- Additional nozzle attachments included for other heat shrinking applications
- Operates on 120V AC power, draws 1500 watts, and can produce 17.6CFM

FT1555-BM



Bench mount production heat shrink machine

- Industrial production ready - brushless heat source with robust thermal insulation for 24/7 continuous operation capability
- Enables sealing of single or multiple hose or tube assemblies at one time
- White plunger provides solid surface for holding CapSeal capsules for uniform heat distribution during heat shrinking
- Dedicated air filter prevents airborne contamination during sealing
- Hot air blower timer allows for optimum cycle time depending on hose or tube ends being sealed
- Accepts CapSeal capsules from 3/4" (20mm) ID to 3" (80mm) ID and allows sealing and thread protection for most hose and tube ends from -4 (1/4") through -32 (2")
- Operates on 230V single-phase AC power at 50/60Hz and draws < 10 amps
- Please note that a L6-15 NEMA twist loc receptacle (not supplied) is required for operation

FT1555 CapSeal System Kits

FT1555-HH-K1



Hand held electric heat gun basic kit (up to 1-1/2" hose ID and tube ends)

- Capability – for use with 1/8" through 1-1/2" hose ID or tube ends
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications – Mobile hose fabricators and mobile applications
- Case not included

FT1555-HH-K1 kit includes

- FT1555-HH hand held electric heat gun with carrying case
- FT1555-HH-ST flex vacuum pump stand for hand held electric heat gun
- FT1555-HH-D15 1-1/2" diffuser for hand held electric heat gun

FT1555-HH-K2



Hand held electric heat gun starter kit (up to 1-1/2" hose ID and tube ends)

- Capability – For use with 1/8" through 1-1/2" hose ID or tube ends
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications – Mobile hose fabricators and mobile applications
- Case not included

FT1555-HH-K2 kit includes in addition to contents of FT1555-HH-K1 kit

- FT1555-2540UP CapSeal Capsules 25mm x 40mm (ID x LENGTH)
- FT1555-2840UP CapSeal Capsules 28mm x 40mm (ID x LENGTH)
- FT1555-3140UP CapSeal Capsules 31mm x 40mm (ID x LENGTH)
- FT1555-3440UP CapSeal Capsules 34mm x 40mm (ID x LENGTH)
- FT1555-3840UP CapSeal Capsules 38mm x 40mm (ID x LENGTH)
- FT1555-4650UP CapSeal Capsules 46mm x 50mm (ID x LENGTH)

FT1555-HH-K3



Hand held electric heat gun premium starter kit (up to 1-1/2" hose ID and tube ends)

- Capability – For use with 1/8" through 1-1/2" hose ID or tube ends
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications – Mobile hose fabricators and mobile applications
- Case not included

FT1555-HH-K3 kit includes in addition to contents of FT1555-HH-K1 kit

- FT1555-2023UP CapSeal Capsules 20mm x 23mm (ID x LENGTH)
- FT1555-2540UP CapSeal Capsules 25mm x 40mm (ID x LENGTH)
- FT1555-2840UP CapSeal Capsules 28mm x 40mm (ID x LENGTH)
- FT1555-3140UP CapSeal Capsules 31mm x 40mm (ID x LENGTH)
- FT1555-3440UP CapSeal Capsules 34mm x 40mm (ID x LENGTH)
- FT1555-3840UP CapSeal Capsules 38mm x 40mm (ID x LENGTH)
- FT1555-4650UP CapSeal Capsules 46mm x 50mm (ID x LENGTH)
- FT1555-5260UP CapSeal Capsules 52mm x 60mm (ID x LENGTH)
- FT1555-5860UP CapSeal Capsules 58mm x 60mm (ID x LENGTH)
- FT1555-6760UP CapSeal Capsules 67mm x 60mm (ID x LENGTH)
- FT1555-8060UP CapSeal Capsules 80mm x 60mm (ID x LENGTH)

Assembly equipment

Contamination control products

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FT1555 CapSeal System

Capsules

FT1555 CapSeal capsules eliminate contamination by forming a clean and secure seal around hose and tube ends. FT1555 CapSeal system eliminates the need to stock multiple plastic threaded caps with just 16 CapSeal capsule sizes to meet all type of hose and tube end configurations.

Additionally, the quick and easy pull-off tab on each capsule eliminates the need for additional tools that could further contaminate the assemblies.

FT1555 CapSeal capsules are available in 16 sizes of varying diameter and length to match needs of all assemblies, and are available in both unit packaged and bulk packaged packaging.

Unit packaged CapSeal packages		Bulk packaged CapSeal packages		CapSeal capsule size		Hex sizes covered		Fitting	
CapSeal part #	Packaged quantity	CapSeal part #	Packaged quantity	(mm, ID X length)	(mm)	(Inches)	Straight	Elbow*	
FT1555-2023UP	810	FT1555-2023BP	23,400	20 X 23	12mm to 18mm	0.47" to 0.71"		X	
FT1555-2030UP	810	FT1555-2030BP	23,400	20 X 30	12mm to 18mm	0.47" to 0.71"	X		
FT1555-2224UP	810	FT1555-2224BP	22,500	22 X 24	16mm to 21mm	0.63" to 0.63"		X	
FT1555-2527UP	800	FT1555-2527BP	17,600	25 X 27	18mm to 23mm	0.71 to 0.91"		X	
FT1555-2540UP	800	FT1555-2540BP	17,600	25 X 40	18mm to 23mm	0.71" to 0.91"	X		
FT1555-2840UP	720	FT1555-2840BP	15,200	28 X 40	22mm to 26mm	0.87" to 1.02"	X		
FT1555-3133UP	640	FT1555-3133BP	12,240	31 X 33	24mm to 29mm	0.94" to 1.14"		X	
FT1555-3140UP	640	FT1555-3140BP	12,240	31 X 40	24mm to 29mm	0.95" to 1.14"	X		
FT1555-3440UP	640	FT1555-3440BP	10,240	34 X 40	27mm to 32mm	1.07" to 1.26"	X		
FT1555-3840UP	560	FT1555-3840BP	7,800	38 X 40	30mm to 36mm	1.19" to 1.42"	X	X	
FT1555-4345UP	480	FT1555-4345BP	6,240	43 X 45	32mm to 41mm	1.26" to 1.61"	X	X	
FT1555-4650UP	480	FT1555-4650BP	5,760	46 X 50	34mm to 44mm	1.34" to 1.73"	X	X	
FT1555-5260UP	400	FT1555-5260BP	4,400	52 X 60	41mm to 50mm	1.62" to 1.97"	X	X	
FT1555-5860UP	400	FT1555-5860BP	3,600	58 X 60	49mm to 56mm	1.93" to 2.20"	X	X	
FT1555-6760UP	320	FT1555-6760BP	2,560	67 X 60	55mm to 65mm	2.16" to 2.56"	X	X	
FT1555-8060UP	320	FT1555-8060BP	1,736	80 X 60	64mm to 78mm	2.52" to 3.07"	X	X	

* Shorter length CapSeal capsules are recommended for elbow and angled fittings (45° and 90°)

FT1555 CapSeal System

Accessories



FT1555-HH-D15

1-1/2" Diffuser for FT1555-HH hand held electric heat gun

- Even 360° heat diffusion to shrink CapSeal capsules fitting configurations
- Accommodates all CapSeal capsules up to 1-1/2"



FT1555-HH-D20

2" Diffuser for FT1555-HH hand held electric heat gun

- Even 360° heat diffusion to shrink CapSeal capsules
- Accommodates all CapSeal capsules up to 2"
- Stainless steel construction for superior service life



FT1555-HH-ST

Flexible stand for FT1555-HH hand held electric heat gun

- Convenient carrying case to store and carry the hand held projectile launchers and relevant nozzles
- Works with all 3 models of hand held projectile launchers



E-EOCR-TT006-E

Operating Instructions for FT1555-BM Bench Mount Capping Machine

Cabinets

C-40X

Stock cabinet



Ideal for mounting the T-400-1 Coll-O-Crimp I press and pump or T-420-1 Coll-O-Crimp Super I. The sturdy C-40X cabinet contains 40 heavy-duty plastic drawers that can be divided into one, two, three, or four compartments providing space for a large selection of Coll-O-Crimp hose ends and adapters.

Drawers
PD-40 (one drawer)

Dividers
PD-20 (individual)

Size
 46-1/2" high, 40" wide,
 26" deep at base,
 18" deep at top

Weight
 228 lbs.

FH-135X

Stock cabinet



The sturdy FH-135X cabinet contains 50 heavy-duty plastic drawers that can be divided into one, two, or three compartments allowing you ample space for a large selection of Coll-O-Crimp hose ends and adapters. Ideal for mounting the Coll-O-Crimp I Press and Pump.

Drawers
PD-95 (one drawer)

Dividers
PD-15 (individual)

Size
 46-1/2" high, 33" wide, 14-1/2" deep

Weight
 115 lbs.

FH-15X

Stock cabinet



Here is the ideal way to organize your inventory of hose ends and adapters. The rugged FH-15X cabinet contains 15 plastic drawers for stocking hose ends and adapters.

Drawers
PD-95 (one drawer)

Dividers (individual)
PD-15

Size
 13-5/8" high, 14-3/8" deep,
 30-1/4" wide

Weight
 45 lbs.

FH-40X

Stock cabinet



Provides convenient storage areas for those large size fittings and hose ends. This durable 20 gauge steel cabinet is made to handle abuse.

Size
 35" wide, 42" high, 12" deep

Weight
 200 lbs.

Note: Will not support Weatherhead Coll-O-Crimp equipment.

Assembly equipment

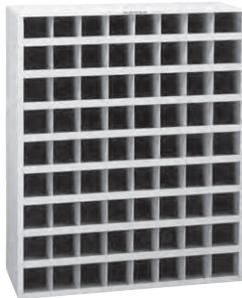
Cabinets and assortments

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Cabinets

FH-72X

Stock cabinet



Large capacity all-welded cabinet provides 72 storage compartments. Fabricated from 20 gauge steel, the FH-72X will provide years of continued service.

Size
35" wide, 42" high, 12" deep

Weight
200 lbs.

Note: Will not support Weatherhead Coll-O-Crimp equipment.

C-5X

Stock cabinet



This mini-cabinet is designed to contain your oversized Weatherhead hose ends which may not currently have an organized home.

Size
30" wide, 5-7/8" high, 9-5/16" deep

Weight
10 lbs.

TC-20

Collet cabinet



The TC-20 Cabinet provides you easy access to all of your tooling needs. There is ample space for collets, spacer rings, and related Coll-O-Crimp tooling.

Size
28-1/2" high, 26-1/2" wide, 12-3/4" deep

Weight
37-1/2 lbs.

HD-1X

Hose cabinet



The HD-1X Cabinet offers you the ideal solution for keeping 50 foot lengths of hose off your floor. Vertical slots in the cabinet keep your hoses organized and clean. Consider bolting an FH-15X stocking cabinet on top of the HD-1X to keep an inventory of hose ends readily available.

Size
36" high, 24" deep, 31" wide

Weight
83 lbs.

HD-2X

Hose center display



The HD-2X hose display is built with a heavy steel inner frame which supports the weight of the hose reels, while its tough wooden sides provide additional durability. It is designed to hold both Weatherhead bulk reels and boxed product. Handles are even provided to make loading the hose as safe and easy as possible.

Measurements

22" wide x 30" deep x 57" tall

Weight

54 lbs. (UPS Shipping)

Maximum capabilities

(3) Reels or (2) Reels & (4) Boxes

(Hose not included)

Assortments

AB-9

Air brake air chamber hose



Assembly assortment of 3/8" I.D. lines

Each selection of fourteen ready-made air chamber hose assemblies facilitate replacement of hoses. Eliminates time and cost of making special assemblies. Wall rack keeps assemblies handy and ready to use.

Length	Quantity	Part number
18-1/2"	1	38166-01812
20-3/8"	2	38166-02137
24-1/8"	2	38166-02412
28-3/8"	2	38166-02837
30-1/8"	2	38166-03012
32"	1	38166-03200
34-3/8"	1	38166-03437
36-1/8"	2	38166-03612
41-1/8"	1	38166-04112
	1	AB-9X (rack only)

Replacement Labels: AB-9L

FL-310

Fuel hose and fittings assortment



FL-310 contains 250' of Weatherhead fuel line hose, a variety of brass hose end fittings, and gear-type clamps for easy, instant service on fuel and oil line assemblies.

A well-designed cabinet keeps 1/4", 5/16", or 3/8" I.D. hose on reels free of kinks and tangles ready for instant use. Ten clear plastic drawers with color-coded illustrated labels are provided for storing hose end fittings and clamps. H057 hose is compatible with unleaded gasolines and low pressure fuel systems.

Size

30" wide, 13-1/2" high, 13" deep

WARNING: California Proposition 65, see A-2.

Part number	Quantity	Part number	Quantity
05704B-102	10	05706B-1568	5
05704B-104	5	05706B-1570	5
05704B-C02	5	05706B-C02	5
05705B-102	10	05706B-C04	5
05705B-104	10	6205-004	20
05705B-1560	5	FL-310X	1
05705B-1561	5	H05704	100'
05705B-C02	5	H05705	100'
05705B-C04	5	H05706	50'
05706B-102	10		
05706B-104	10		
05706B-106	5		

Assembly equipment

Cabinets and assortments

Assortments

FF12139

E-Z Clip System



The E-Z Clip System is designed for assembly with weatherhead multi-refrigerant hose GH001. It's engineered connection exceeds SAE J2064 and has been vibration and impulse tested.

Note: The E-Z Clip System has been designed to work exclusively with Weatherhead GH001 Hose.

Kit contents components

Part number	Description	Qty/per kit
1F40104-size	Clips	20 each size
1F40105-size	Cages	10 each size
FT1357	Assy. tool	1
T-135	Hose cutter	1
T-135B	Replacement blade	1

BL-456

Barb-Tite fittings and hose assortment



Making up an air line oil line transmission, or power steering return line?

The BL-456 assortment puts Eaton Barbtite fittings and 1/4", 5/16", and 3/8" I.D. 350 psi maximum operating pressure H101 hose at your fingertips for quick and easy assembly. Simply push ends on hose, and you have a hose assembly. No clamps required!

Measure the hose on top of the cabinet with the rule provided and then select the proper hose ends from the assortment in the two metal drawers. Within minutes the hose assembly is ready for installation.

Size

15" wide, 16-1/2" high, 13-3/16" deep
16 compartments in each drawer.

Part number	Qty.						
10004B-102	4	10004B-B04	4	10005B-C02	4	10006B-606	4
10004B-104	4	10004B-B05	4	10005B-C04	4	10006B-B06	4
10004B-304	4	10004B-Y04	4	10005B-Y05	4	10006B-Y06	4
10004B-305	4	10005B-102	4	10006B-102	4	H10104	25'
10004B-605	4	10005B-104	4	10006B-104	4	H10105	25'
10004B-604	4	10005B-605	4	10006B-106	4	H10106	25'
10004B-A04	4	10005B-B05	4	10006B-306	4	FS-500	1
10004B-A05	4	10005B-B06	4	10006B-406	4	BL-456X	1
10004B-B03	4						

Assortments

FT1341

Thread measuring kit



Measuring tube and pipe fitting threads can be a most difficult task if not completely understood. Tools needed include a thread pitch gauge, calipers and seat angle gauges. To aid you, Eaton has a kit to fit your needs; the FT1341 thread measuring kit.

This handy kit includes:

- Thread pitch gauge (Imperial and metric)
- Inside/outside caliper (inches and millimeters)
- 2 seat angle gauges (37°/45° and a 12°/30°)
- How to identify fluid ports and connectors bulletin
- Carrying case for easy convenient and storage

Weight: .5 lb.

TA-1004

Metric thread identification kit

Contained in a durable steel carrying case, TA-1004 will help you with identification of metric, British pipe, and JIS thread configurations. Identification pieces are configured for 20 metric and 8 British pipe sizes.

This handy kit includes:

- Steel carrying case
- Stainless steel caliper
- Metric and British thread pitch gauges
- British thread measuring templates (4 measuring 8 sizes) made of durable aircraft grade aluminum
- Metric Thread Measuring Templates (10 measuring 20 sizes) made of durable aircraft grade aluminum
- Kit content identification chart

Assembly equipment

Cabinets and assortments

Assortments

SS-85

Standard brass fittings assortment



Instant service for service stations, car dealers, and repair shops. Contains 85 of the fastest moving Weatherhead brass fittings.

Compact, lightweight plastic box stores easily in a drawer, shelf or service truck. Saves you time and money by having the right fitting when it is needed. Eliminates searching and make-shift repairs by giving you the right part when you need it most.

Size

11" wide, 1-3/4" high, 6-3/4" deep.

Weight

3-1/4 lbs.

Part Number	Qty.
105x3	5
105x4	5
105x5	10
202x4	5
202x5	5
3151x2	2
3220x4x2	5
3300x2	5
402x4	2
60x3	5
60x4	10

Part Number	Qty.
60x5	5
60x6	5
62x3	2
62x4	5
62x5	5
62x6	2
68x4	2
BF-40X	1

WARNING: California Proposition 65, see A-2.

SS-86

Compression fittings assortment



Assortment contains 80 of the fastest moving compression fittings.

Size

11" wide, 1-3/4" high, 6-3/4" deep.

Weight

3-1/2 lbs.

Part Number	Qty.
60x3	5
60x4	10
60x5	5
60x6	5
61x3	5
61x4	5
61x5	5
61x6	5
62x3	5

Part Number	Qty.
62x4	5
62x5	5
62x6	2
68x3	2
68x4	5
68x5	2
69x3	2
69x4	5
69x5	2
BF-40X	1

SS-87

Inverted flare assortment



Assortment contains 84 of the fastest moving inverted fittings.

Size

11" wide, 1-3/4" high, 6-3/4" deep.

Weight

3-1/2 lbs.

Part Number	Qty.
105x3	5
105x4	5
105x5	5
105x6	5
202x3	5
202x4	5
202x5	5
202x6	2
302x3	5

Part Number	Qty.
302x4	5
302x5	5
302x6	2
402x3	5
402x4	5
402x5	5
402x6	5
7896x3	5
7896x4	5
BF-40X	1

Assortments

SS-88

Brass pipe assortment



Assortment contains 59 of the fastest moving brass pipe fittings.

Size

11" wide, 1-3/4" high, 6-3/4" deep.

Weight

3-1/2 lbs.

WARNING: California Proposition 65, see A-2.

Part number	Qty.
3152x2	5
3152x4	5
3152x6	2
3220x4x2	2
3220x6x4	2
3300x2	5
3300x4	2
3326x2	5
3326x4	5

Part number	Qty.
3326x6	2
3350x2	5
3350x4	4
3350x6	2
3400x2	5
3400x4	2
3400x6	2
3500x2	2
3500x4	2
BF-40X	1

BF-40

Hydraulic brake fittings assortment



The BF-40 assortment of fast moving hydraulic brake fittings is a must for any shop doing brake service work. Contains the adapters needed to convert large size ports in master cylinders to accept standard steel brake lines plus the brass tees used in the installation of electric towed trailer brakes.

Assortment is organized in a compact, handy plastic box for easy selection.

Size

1" wide, 1-3/4" high, 6-3/4" deep.

Weight

4 lbs. (approx.)

Part number	Qty.
7818	2
7828	2
7829	2
7897	2
7898	2
7900	2
7901	2
7904	2
7905	2

Part number	Qty.
7906	2
7908	2
7910	2
7911	2
7912	2
7913	2
7914	2
7917	2
7933	2
BF-40X	1

BF-41

Hydraulic brake line adapter assortment



The BF-41 assortment contains the adapters needed to convert the oversize master cylinder ports to accept the inverted flare nut used on standard replacement steel brake lines.

The adapters eliminate the need to cut line, install oversize nut and double flare tubing as well as converting the port to standard size threads for the life of the car. Extra standard nuts and the unions needed to connect two steel brake lines when a non-standard length is required are also included in the assortment. The contents including the illustrations of parts are shown on the inside cover of the box.

Size

11" wide, 1-3/4" high, 6-3/4" deep.

Weight

4 lbs. (approx.)

Part number	Qty.
105x3	10
105x4	10
105x5	10
105x6	5
105x6x7	2
302x3	5
302x4	5
302x5	5
302x6	2

Part number	Qty.
7818	2
7828	2
7829	2
7896x3	5
7896x4	5
7897	2
7908	2
7917	2
BF-40X	1

Assembly equipment

Cabinets and assortments

L

Assortments

AB-140

1400 Series air brake fittings assortment



This assortment of 1/4", 3/8", and 1/2" air brake fittings designed for use with NT100 nylon air brake tubing provides the coverage needed for service work by fleets, repair shops, and farm implement dealers. The DOT-approved air brake fittings are easily selected from the cabinet with 16 plastic drawers and color-coded labels included in the assortment.

Part Number	Qty.	Part Number	Qty.
1460x4	20	1469x8	5
1460x6	20	1484x4	20
1460x8	20	1484x6	20
1461x4	10	1484x8	20
1461x6	10	145	10
1461x8	5	CL-16-3	1
1462x4	5	FC-16X	1
1462x6	10	W15310	5
1462x8	4		
1468x4	10		
1468x6	10		
1468x8	5		
1469x4	5		
1469x6	5		

Quick connect assortments

QC-18



Designed as a glove box sized emergency repair kit, the QC-18 assortment contains Q-CAB tube unions in 5/32", 1/4", 3/8", and 1/2" sizes, also included is a T-191 tubing cutter. The contents are contained in a convenient carrying case measuring 1-1/4" x 3-3/4" x 7".

Component part no.	Qty.
1862x2.5	2
1862x4	2
1862x6	2
1862x8	2
T-191	1
QC-18X	1

QC-180



The QC180 contains tube unions, male connectors, swivel male 45° elbow, male 90° elbows, and repair kits in popular 1/4", 3/8", and 1/2" tube sizes designed for DOT Truck and Trailer Air Brake System needs (see complete listing at right in table). The Q-CAB fittings are field proven with over millions of miles of leak free performance. Their design can save up to 75 percent of the assembly time over conventional compression fittings. These fittings are contained in a case measuring 1-3/4" x 6-3/4" x 1-3/4".

Component part no.	Qty.
1869x6x6	2
1862x4	2
1869x8x8	1
1862x6	2
1880x4x4	2
1862x8	2
1880x6x6	2
1868x2.5	2
1880x8x8	1
1868x3	2
1800Kx4	2
1868x4x4	2
1800Kx6	2

Component part no.	Qty.
1868x6x6	2
1800Kx8	2
1868x8x8	2
1800TRK	1
1869x4x4	2
BF-40X	1

QC-1800



This assortment contains a solid inventory of popular Weatherhead Q-CAB fittings designed for DOT Truck and Trailer Air Brake System needs (see complete listing at right in table). The Q-CAB fittings are field proven with over millions of of leak free performance. Their design can save up to 75 percent of the assembly time over conventional compression fittings.

Component part no.	Qty.
1800Kx2.5	4
1862x10	2
1868x12	2
1874x6x6	1
1800Kx3	4
1868x2.5x1	5
1869x4	5
1874x8x8	1
1800Kx4	4
1868x2.5	5
1869x4x4	5
1880x4x4	5
1800Kx6	4
1868x3	5
1869x6	5
1880x6x6	5
1800Kx8	4
1868x4	5
1869x8	5
1880x8x8	5
1800Kx10	2
1868x4x4	5
1869x8x8	5
1880x10	2

Component part no.	Qty.
1800Kx12	2
1868x6	5
1869x10	2
1880x12	2
1862x2.5	2
1868x6x6	5
1869x4S	5
1800T	1
1862x3	5
1868x8	5
1869x4x4S	5
CL-503	1
1862x4	5
1868x8x8	5
1869x6S	5
FC-16X	1
1862x6	5
1868x10x6	2
1869x8S	5
T-191	1
1862x8	5
1868x10	2
1874x4x4	1

Assembly equipment

Cabinets and assortments

Assortments

SA-1

Secondary air systems kit



Ideal for fleet repair shops, truck dealers, garages and truck stops. SA-1 contains an assortment of popular 1/8" and 1/4" brass fittings plus 200' of Weatherhead NT100 SAE J844 nylon tubing. The 1/8" fittings are Weatherhead SELFALIGN and 1/4" fittings are Weatherhead 1400 series air brake.

The sturdy box keeps the tubing and fittings together for quick and easy servicing of the tubing used on shifters, PTO's, wipers, horns, remote air, instrumentation, etc. All of the parts are organized at your finger tips. The SA-1 is a must for all vehicle air system maintenance facilities.

WARNING: California Proposition 65, see A-2.

Size
15" wide, 3-1/2" high, 14-1/2" deep.

Part Number	Qty.
1460x4	10
1461x4	5
1462x4	2
1464x4	1
1468x4	2
1468x4x1	2
1468x4x4	2
1469x4	2
1469x4x4	2
1484x4	5

Part Number	Qty.
601x2	10
611x2	5
621x2	2
661x2	2
681x2	2
681x2x1	2
691x2	2
691x2x1	2
BF-40X	1

SA-2

Secondary air systems kit



The SA-2 assortment enables you to supply fleets and dealers with fittings and tubing for 1/4" and 3/8" O.D. air brake applications. 1/8" O.D. tubing and fittings are also supplied for applications such as transmission shifter, air horn, gauge and flat adjustment. A cabinet is also supplied for easy storage on shelves and bench tops.

Part Number	Qty.
1460x4	10
1460x6	20
1461x4	5
1461x6	10
1462x4	5
1462x6	10
1464x4	2
1464x6	2
1466x6	5
1468x4	5
1468x4x4	5
1468x4x6	2
1472x4	5
1472x6	5
1472x6x6x6	5
1484x4	10
1484x6	10
1485x4	10
1485x6	10

Part Number	Qty.
1468x6	10
1468x6x2	5
1468x6x6	5
1468x6x8	5
1469x4	5
1469x4x4	5
1469x6	10
1469x6x6	5
601x2	10
611x2	10
621x2	5
661x2	5
681x2	5
681x2x1	2
691x2	5
691x2x1	2
BL-456-X	1
FS-SA-2	1

Bags

PB Plastic bags



Weatherhead heavy duty plastic bags for Weatherhead fittings come in sizes 5"x6", 6"x10", and 8"x12". The bags include convenient spaces for labeling.

Catalog number	Description	Qty
5x6 PB	Plastic Bag	100
6x10 PB	Plastic Bag	100
8x12 PB	Plastic Bag	100

Assembly equipment

Cabinets and assortments

Label sets

Self-adhesive label sets

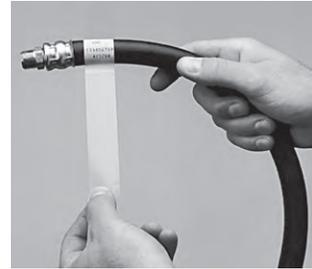


For C-40X, FH-15X, and FH-135X cabinets

Label number	Description
FS-100	SAE 37° adapters
FS-200	NPTF adapters
FS-300	ORS & ORB adapters
FS-400	Field attachable hose ends – 009 'B' series
FS-500	Barb-Tite 100 'B' and 105 'B' series hose ends
FS-600	Field attachable hose ends – 069 'D' & 247 'N' series
FS-700	Field attachable hose ends – 425 'N' series
FS-800	Field attachable hose ends – 338 'B' series & brass
FS-1200	Coll-O-Crimp hose ends – 'E' series
FS-1500	Coll-O-Crimp hose ends – 069 'E' series
FS-1600	7000 Series flareless fitting
FS-2000	Steel pipe
FS-2300	Drain cocks, valves and select 338 'B' series hose ends
FS-2400	ORS adapters label set
FS-2800	Field attachable hose ends – 213 'N' series
FS-2900	Coll-O-Crimp hose ends – 338 'P' series
FS-3200	Coll-O-Crimp hose ends – 757 'E' series
FS-3300	Quick connect air brake 1800 series
FF90645	'Z' series label set
FF90646	E-Z Clip label set
FF91420	4S/6S Hose ends label set

A2103

Mylar hose labels



Eaton now offers Mylar labels for marking hose assemblies. They are self-adhesive Mylar strips, 1" wide by 3-3/4" long, with a 1" x 1" white area on one end for printed information. They are supplied on a roll of 2000 labels with each perforated page containing eight labels. The format is suitable for use in typewriters and tractor-feed or friction-drive printers.

Whether for compliance with federal hose assembly labeling requirements, or for simply meeting customer demands for labeling hose assemblies, we strongly recommend labeling become part of your hose assembly "manufacturing" procedure. The National Highway Traffic Safety Administration places responsibility for labeling an air brake hose assembly in the hands of the "manufacturer" of the hose assembly. (Not the manufacturer of the hose or hose ends.) For a summary of air brake hose assembly labeling recommendations, see "Air Brake Hose Assembly Guidelines."

For specific air brake hose assembly regulations, consult "Federal Motor Vehicle Safety Standard (FMVSS) 571.106," available from NHTSA, at the address listed below. For use other than air brake applications, customers may want additional information on the labels. Generally, the labels will accept 9-10 characters per row, on 4 or 5 rows. The information can be handwritten, typed, or printed on the labels. The main concern is resistance to the elements. Procedure for applying the labels is simple:

1. Print the appropriate information on the label.
2. Wrap the tag around the hose assembly; printed end first.
3. Cover the printed end with the clear mylar tail of the label.
4. The clear tail will protect the printed area from the elements.

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