

## ProCrimp® 1380



The ProCrimp 1380 crimp machine from Eaton crimps all your hose needs up to and including -20 SAE100R12 hose styles and the popular MatchMate Plus hose and fittings program (shown with optional die holder kit FT1380-2-4). The ProCrimp 1380 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.

### Ordering Instructions

- FT1380-115** 115V crimp machine 60 Hz
- FT1380-115-5** 2-Wire braid hose package FT1380-115 with the 5 die cages needed to crimp the 5 most popular GH793 or GH781 2-wire hose sizes: -4, -6, -8, -12 and -16  
Die Cages  
FT1380-200-M150  
FT1380-200-M210  
FT1380-200-M240  
FT1380-200-M320  
FT1380-275-M370
- FT1380-115-8** Braided and spiral hose package FT1380-115-5 with the 3 additional die cages — capable of crimping all MatchMate Plus hoses through -20  
Die Cages  
FT1380-200-M180  
FT1380-200-M280  
FT1380-275-M465  
\* Must also order FT1380-275-M420 to crimp GH194-20 and GH663-20
- FT1380-2-3** FT1330 to FT1380 Die Cage conversion kit — back plate, bolts and instructions necessary to convert an FT1330 die cage to an FT1380 die cage. Simply remove the FT1330 back plate and replace it with the new FT1380 back plate.
- 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 ProCrimp machine to accept these 4 plates.
- FT1380-4** Optional fitting backstop-kit includes backstop and  $\frac{5}{32}$ " hex wrench. The backstop allows the 1380 to crimp PTFE hose and be utilized for a fitting locator to increase efficiency.

### Electrical Requirements

**USA:** FT1380-115 standard machine uses 115V, 60 Hz, 1.5 hp

**Brazil:** FT1380-1-2 standard machine uses 230V, 60 Hz, 1 hp

**Australia:** FT1380-230 standard machine uses 230V, 50 Hz, 1 hp

**Canada:** FT1380-115 standard machine. Requires CSA (Canadian Standards Association) approval. The FT1380-115 is CSA approved and is so noted on the nameplate.

## ProCrimp® 1380P



Perfect for maintenance and repair of all your hose needs and designed to be used in remote or portable stations, the ProCrimp 1380P will handle through -20 SAE100R12 hose and fittings. All die cages, crimp diameters and approved hose and fitting combinations are identical to Eaton's popular FT1380 crimper. Crimp diameters are controlled using a micrometer and specially designed hydraulic circuit that allows

for precise and adjustable finished crimp diameters.

The ProCrimp 1380P may be ordered separately or with your choice of three power options, including a high volume hand pump, an Air/Hydraulic power unit or a 12-volt DC power unit.

### Ordering Instructions

- FT1380P-1-1** Machine with hand pump
- FT1380P-1-1-5** Machine with hand pump and 5 die cages
- FT1380P-1-1-8** Machine with hand pump and 8 die cages
- FT1380P-1-2** Machine with Air/Hydraulic pump
- FT1380P-1-2-5** Machine with Air/Hydraulic pump and 5 die cages
- FT1380P-1-2-8** Machine with Air/Hydraulic pump and 8 die cages
- FT1380P-1-3** Machine only
- FT1380P-1-3-5** Machine with 5 die cages
- FT1380P-1-3-8** Machine with 8 die cages
- FT1380P-1-4** Machine with 12 volt DC pump
- FT1380P-1-4-5** Machine with 12 volt DC pump and 5 die cages
- FT1380P-1-4-8** Machine with 12 volt DC pump and 8 die cages
- FT1380-4** Optional fitting backstop-kit includes backstop and  $\frac{5}{32}$ " hex wrench. The backstop allows the 1380P to crimp PTFE hose and be utilized for a fitting locator to increase efficiency.

### 5 die cages

- FT1380-200-M150  
FT1380-200-M210  
FT1380-200-M240  
FT1380-200-M320  
FT1380-275-M370

### 8 die cages

- Include the 5 die cages plus:  
FT1380-200-M180  
FT1380-200-M280  
FT1380-275-M465

# ET1000 Portable, Light Duty, Positive Stop Crimp Machine

Eaton is proud to add the ET1000 crimp machine to its line of portable crimpers. While being our most economical crimp machine to-date, the new ET1000 machine boasts a broad crimp capability with an ease-of-use that is sure to please hose assemblers.

This new crimp machine has been approved to crimp:

- All 1-wire and 2-wire braided MatchMate Plus hoses in sizes 1/4" through 1 1/4" using MatchMate Plus TTC fittings.
- All 4-wire spiral MatchMate Plus hoses in sizes 3/8" through 1", using MatchMate Plus TTC12 fittings.

The new ET1000 crimp machine builds on the success of the prior FT1370 portable crimp machine by using the same basic frame and construction design, but employs a 2-piece split half collet assembly in lieu of the traditional ProCrimp die cages. The correct hose assembly crimp diameter is obtained by the use of a spacer ring that controls the stroke length of the cylinder during the crimping operation.

This new crimp machine may be ordered separately or with one of four power supplies: hand-pump, air/hydraulic pump, 12-volt DC power unit, or a 110-volt AC power unit.

## Features

- Pusher slides out of position.
- Compatible with the Aeroquip MatchMate Plus hose and fittings.
- Can be mounted on service vehicles due to its portable design.
- Can be powered with virtually any 10,000 psi hydraulic power source (min. 36 cubic inch pump reservoir capacity).
- 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 style pump.



## Specifications

Dimensions-22 inches high, 16 inches wide, 14 inches in depth

Weight 70 lbs. (without pump)

## ET1000 Crimp Machine Part Numbers

For tooling and crimping information, refer to the Collet/Spacer Ring Selector Chart, A-EQCR-MG001-E.

All part numbers include the basic crimp machine.

ET1000-001 = No pump, no tooling (basic machine only)

ET1000-002 = Hand-pump, no tooling

ET1000-003 = Air/hydraulic pump, no tooling

ET1000-004 = 110 volt 1/2HP electric pump, no tooling

ET1000-005 = 12 V DC pump, no tooling

## ET1000 Crimp Machine Package Part Numbers

These machine packaged part numbers offer a variety of pumps with the same tooling package including all collets and spacer rings to crimp:

1-wire and 2-wire braided MatchMate Plus Hoses (sizes 1/4" through 1 1/4") using TTC fittings

GH493, 4-wire spiral MatchMate Plus Hose (sizes 3/8" through 1") using TTC12 fittings

ET1000-006 = No pump, but includes complete MatchMate Plus Collet and Spacer Ring Tooling package described above

ET1000-007 = Air/hydraulic pump, and complete MatchMate Plus Collet and Spacer Ring Tooling package described above

ET1000-008 = 110 Volt electric pump, and complete MatchMate Plus Collet and Spacer Ring Tooling package described above

ET1000-009 = 2-Stage hand pump, and complete MatchMate Plus Collet and Spacer Ring Tooling package described above

ET1000-010 = 12 Volt DC pump, and complete MatchMate Plus Collet and Spacer Ring Tooling package described above

# ProCrimp® 1390



## Crimped hose assembly machine

### Hose Specifications

All styles from 3/16" through 2" I.D. including four and six spiral wire requiring internal skive crimp style fittings.

### Features

- Front-end loading design
- Electronic key pad control of crimp diameter
- Power return stroke, return limit control
- Drop-in tooling (crimp die cages)
- Backstop fitting locator
- Width 29", Depth 28", Height 49", Weight 825 lbs.
- Worklamp

### Ordering Instructions

**FT1390-115** Aeroquip crimp machine, 115V, single phase, 60 Hz, 1 hp motor

**FT1390-115-12** Kit includes FT1390-115 machine plus the die cages to crimp -4 through -32 MatchMate Plus fittings.

**FT1092** NEVER-SEEZ lubricant

### Electrical Requirements

Standard

115V, single phase, 60 Hz, 1 hp.

### Optional 230 Volt Machines

FT1390-23050 230V, single phase, 50 Hz crimp machine

FT1390-23050-12 FT1390-23050 with 12 die cages.

FT1390-23060 230V, single phase, 60 Hz crimp machine

FT1390-23060-12 FT1390-23060 with 12 die cages.

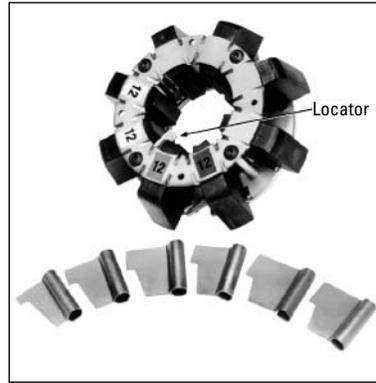
### Crimp Die Cages

Eaton crimp die cages provide simple "drop-in" tooling for the FT1390 crimp machine. See Crimp Die Cage Applications chart or contact Eaton. Refer to website for current crimp specifications.

### Crimp Die Cage Storage Cabinet

Eaton recommends crimp die cages be kept free of dust or dirt. As an option, a cabinet is offered which has the capability of storing nine crimp die cages. Order by part number FT1283.

## MatchMate Plus fitting locators



For use with FT1380 and FT1330 "M" Series die cages

Consistent crimping of MatchMate Plus fittings is greatly simplified when using new fitting locators. The locators are designed for easy installation and use on the Eaton FT1380 or FT1330 "M" series die cages noted below.

### Ordering Instructions

The locator kits can be ordered as part number FT1330-XL. Each kit contains locators to accommodate -4, -6, -8, -10, -12 and -16 MatchMate Plus fittings and installation instructions.

Locator Suffix	Die Cage Suffix	MatchMate Plus Hoses			
		GH663, GH194	GH793, GH195	GH781	GH493
-4, -4P	-M150	-4	-4	-4	
-6, -6P	-M180	-6			
	-M210		-6	-6	-6
-8, -8P	-M240	-8	-8	-8	
-10, -10P	-M280		-10	-10	-8
-12, -12P	-M320	-12	-12	-12	-12
-16	-M370	-16	-16	-16	-16
None required	-M465		-20	-20	-20

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICES

# Crimp Cages for FT1380

## M-Series Crimp Die Cage Applications

Die Cage Part Number	Crimp Range	
	mm	in
FT1380-275-M070	7,0 to 9,0	0.28 to 0.35
FT1380-275-M090	9,0 to 12,0	0.35 to 0.47
FT1380-275-M120	12,0 to 15,0	0.47 to 0.59
FT1380-200-M150*†	15,0 to 18,0	0.59 to 0.71
FT1380-200-M180*†	18,0 to 21,0	0.71 to 0.83
FT1380-200-M210*†	21,0 to 24,0	0.83 to 0.95
FT1380-200-M240*†	24,0 to 28,0	0.95 to 1.10
FT1380-200-M280*†	28,0 to 32,0	1.10 to 1.26
FT1380-200-M320*†	32,0 to 37,0	1.26 to 1.46
FT1380-275-M370*	37,0 to 42,0	1.46 to 1.66
FT1380-275-M420	42,0 to 46,5	1.66 to 1.83
FT1380-275-M465*	46,5 to 52,0	1.83 to 2.05

†:Can be ordered as FT1380-275-SIZE for tool steel dies vs. powdered metal dies.

\*FT1380-115-8 kit includes these 8 die cages.

NOTE: Additional dies and die cage assemblies also available.

Refer to website or contact Eaton.

## Hose Styles

- Smooth Bore PTFE
- SAE100R1AT
- SAE100R2AT
- HI-PAC
- SAE100R6
- SAE100R8
- SAE100R17
- Convoluted PTFE
- SAE100R1
- SAE100R2A
- SAE100R4
- SAE100R7
- SAE100R12
- Polyon

For crimp specifications on Global Skive type fittings and Global TTC & TTC12 refer to website or contact Eaton for specialty hoses.

## Barrel Crimp Die Cage Applications

Die Cage Part Number	Hose Size	Hose Styles
FT1380-275-R5-04	-04	SAE100R5
FT1380-275-R5-05	-05	
FT1380-275-R5-06	-06	
FT1380-275-R5-08	-08	
FT1380-275-R5-10	-10	
FT1380-275-R5-12	-12	
FT1380-275-R5-16	-16	
FT1380-275-R5-20	-20	

## Die Cage Repair Kit Complete kit, less dies.

To Repair	Order
FT1380-200-size	FT1380-2-9
FT1380-275-size	FT1380-2-9
FT1380-201-size	FT1380-2-9A

## Tooling Compatability Chart

### Crimp Machines

	FT1008	FT1049	FT1204	FT1208	FT1209	FT1244	FT1307	FT1310	FT1320	FT1330	FT1340	FT1360	FT1370	FT1380	FT1380P	FT1390	ET1000
FT1008-100-Size	X																
FT1049-100-Size		X															
FT1204-100-Size			X		X <sup>1</sup>	X	X <sup>1</sup>				X <sup>1</sup>	X <sup>1</sup>				X <sup>1</sup>	
FT1208-100-Size				X													
FT1209-200-Size					X		X				X	X				X	
FT1307-200-Size					X		X				X	X				X	
FT1310-200-Size								X									
FT1330-200-Size									X	X							
FT1330-275-Size									X	X							
FT1380-200-Size													X	X	X		
FT1380-201-Size													X	X	X		
FT1380-275-Size													X	X	X		
FT1390-200-Size					X		X				X	X				X	
ET1000-Size																	X

<sup>1</sup> Individual dies. Requires the use of die cage kit FT1307-2-9 or removable die cage FT1307-2-13.

## Crimp Cages for FT1390

FT1307-200-Size, FT1209-200-Size & FT1390-200-Size die cages can be used in the FT1390 crimp machine.

Die Cage Part Number	Crimp Range	
	mm	in
FT1307-200-M070	7,0 to 9,0	0.28 to 0.35
FT1307-200-M090	9,0 to 12,0	0.35 to 0.47
FT1307-200-M120	12,0 to 15,0	0.47 to 0.59
FT1307-200-M150*	15,0 to 18,0	0.59 to 0.71
FT1307-200-M180*	18,0 to 21,0	0.71 to 0.83
FT1307-200-M210*	21,0 to 24,0	0.83 to 0.95
FT1307-200-M240*	24,0 to 28,0	0.95 to 1.10
FT1307-200-M280*	28,0 to 32,0	1.10 to 1.26
FT1307-200-M320*	32,0 to 37,0	1.26 to 1.46
FT1307-200-M370*	37,0 to 42,0	1.46 to 1.66
FT1307-200-M420*	42,0 to 46,5	1.66 to 1.83
FT1307-200-M465*	46,5 to 52,0	1.83 to 2.05
FT1307-200-M520*	52,0 to 55,0	2.05 to 2.17
FT1307-200-M550*	55,0 to 69,0	2.17 to 2.71
FT1307-200-M690*	69,0 to 73,0	2.72 to 2.87

†:Can be ordered as FT1380-275-SIZE for tool steel dies vs. powdered metal dies.

\*FT1390-115-12 kit includes these 12 die cages.

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 Global Spiral TTC fittings (SAE100R11 & SAE100R13 hose styles).

NOTE: FT1390-200-Size dies cages are hinged to allow ease of use when crimping large elbows.

NOTE: All dies are machined from tool steel.

## Hose Styles

- Smooth Bore PTFE
- Polyon
- SAE100R1
- SAE100R2A
- SAE100R4
- SAE100R7
- SAE100R12
- Convoluted PTFE
- SAE100R1AT
- SAE100R2AT
- HI-PAC
- SAE100R6
- SAE100R8
- SAE100R17

For crimp specifications on Global Skive type fittings and Global TTC & TTC12 refer to website or contact Eaton for specialty hoses.

## Barrel Crimp Die Cage Applications

Die Cage Part Number	Hose Size	Hose Styles
FT1307-200-R5-04	-04	SAE100R5
FT1307-200-R5-05	-05	
FT1307-200-R5-06	-06	
FT1307-200-R5-08	-08	
FT1307-200-R5-10	-10	
FT1307-200-R5-12	-12	
FT1307-200-R5-16	-16	
FT1307-200-R5-20	-20	
FT1307-200-R5-24	-24	
FT1307-200-R5-32	-32	

## Die Cage Repair Kit Complete kit, less dies.

To Repair	Order
FT1307-200-size	FT1307-2-9
FT1390-200-size	FT1390-2-9
FT1209-200-size	FT1209-2-9

## Crimp Collets and Spacers for ET1000

Collet Part Numbers
ET1000DC-M150S
ET1000DC-M195S
ET1000DC-M230S
ET1000DC-M250S
ET1000DC-M295S
ET1000DC-M320S
ET1000DC-M390S
ET1000DC-M430S
ET1000DC-M475S

Spacer Ring Part Numbers
ET1000SR-M115D (Yellow)
ET1000SR-M265D (Black)
ET1000SR-M395D (Silver)
ET1000SR-M190D (Lt. Green)
T-400-37 (Green)
T-400-38 (Red)
ET1000SR-M100A (Purple)
ET1000SR-M315A (Orange)
T-400-112 (Tan)

Accessory Part Numbers
1.5 oz. tube of high efficiency PTFE grease = 140-06701

Die Ring Adapter - For Smaller Collets
ET1000AR-001

# Reusable Assembly Equipment

## FT1097

### Portable reusable hose assembly machine

#### Fitting Specifications

- Any screw together reusable hose fitting with a hex size  $2\frac{1}{8}$ " or smaller

#### Features

- Bench or stand mounted
- Easy to operate
- Convenient foot switch
- U.L. listed
- 102 RPM

#### Ordering Instructions

Machine:

- |                   |   |
|-------------------|---|
| <b>FT1097-1-1</b> | Base machine, 110V                        |
| <b>FT1097-1-2</b> | Base machine, 220V                        |
| <b>FT1013-2-2</b> | Machine stand                             |
| <b>FT1220-10</b>  | Optional assembly tool kit (see page 317) |
| <b>FT1097-2-1</b> | Optional vise kit (see below)             |

#### Electrical Requirements

1/2 hp reversible, variable speed, universal motor; as the torque increases the speed decreases. 110V AC, single phase, 25-60 Hz, or 220V, AC, single phase, 25-60 Hz.



## FT1097-2-1

### Vise kit for FT1097 machine



The optional vise kit for the FT1097 reusable hose assembly machine includes all hardware necessary to install the kit. Reusable hose fitting sockets are conveniently held secure during assembly.

## FT1013 Portable reusable hose assembly machine

### Fitting Specifications

- Fabric and single wire braid, -04 through -40
- Double wire and 4-spiral wire, -04 through -32



### Features

- Quick acting wrench type chuck
- Easy to operate
- Safety guard
- Versatile
- Safety snap type switch
- Safety footswitch
- 36 rpm
- 45" x 56" x 46", 170 lbs.

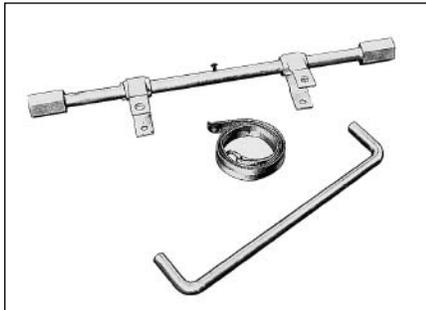
### Ordering Instructions

<b>FT1013-1-5</b>	Base machine, 110V, with vise
<b>FT1013-1-6</b>	Base machine, 220V, with vise
<b>FT1013-1-3</b>	Base machine, 110V, with stand, vise and socketing tool
<b>FT1013-1-4</b>	Base machine, 220V, with stand, vise and socketing tool
<b>FT1013-1-1</b>	Base machine, 110V, with tool kit, stand, vise and socketing tool
<b>FT1013-1-2</b>	Base machine, 220V, with tool kit, stand, vise and socketing tool
<b>FT1013-2-1</b>	Vise
<b>FT1013-2-2</b>	Stand
<b>1562</b>	Tool kit
<b>FT1281</b>	Socketing tool (see below)

### Electrical Requirements

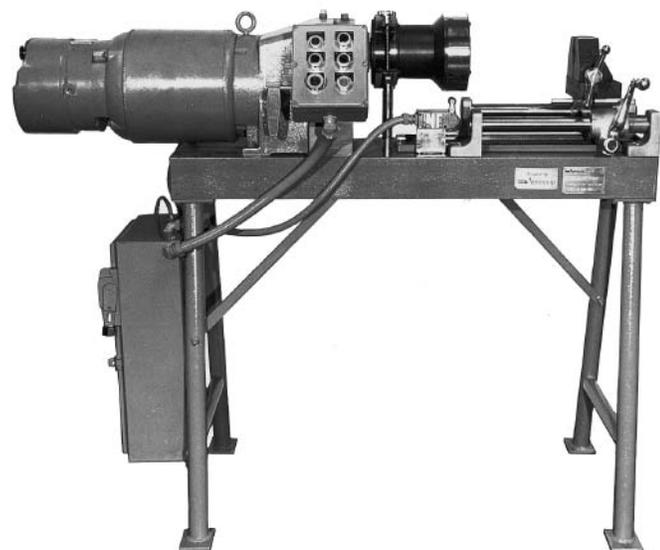
1/2 hp reversible, variable speed, universal motor; as the torque increases the speed decreases. 110V AC, single phase, 25-60 Hz, or 220V AC, single phase, 25-60 Hz.

## FT1281 Socketing tool



For use with stand mounted FT1013 and FT1097 Portable Hose Assembly Machine. (The FT1281 socketing tool must be accompanied by the FT1097-2-1 vise kit (see page 381) when used on the FT1097 portable hose assembly machine.)

# FT1028 Production reusable hose assembly machine



## Fitting Specifications

- Screw together fittings—Fabric or wire braided hose up to -32
- Screw together fittings—4 spiral wire hose up to -24

## Features

- High volume production
- Ideal for 2 or 3 piece fittings
- 4 speed transmission; 90 rpm, 120 rpm, 210 rpm, 400 rpm
- Easy to operate
- Micrometer stop
- Electric brake
- U.L. listed
- 24" x 62" x 32", 550 lbs.

Electrical Requirements: 220/440V, 3 phase, 60 Hz.

## Ordering Instructions

**FT1028-1-5** Base machine with automatic stop and spindle control

## FT1234 Drop-in socket holder



The FT1234 drop-in socket holder is designed for the FT1028 assembly machine. They prevent rotation of the socket during assembly and provide a back stop to ensure consistent location of the socket.

Part No. FT1234	Hex Size (in.)	Hose Style	Socket Part Number and Size
-100	9/16	2807-4	1206-4
-101	5/8	2807-5, 1503-4, FC300-04 FC350-04, FC321-04	1206-5, 1210-4
-102	11/16	2807-6, 1503-5, FC300-5, FC350-5, FC321-05	1206-6, 1210-5
-104	13/16	1503-6, 1509-4, FC300-6, FC350-6, FC321-06	1210-6, 4010-4
-105	7/8	2807-8	1206-8
-106	15/16	1503-8, FC300-08, FC350-08, FC321-08	1210-8
-200	1	2807-10	1206-10, FC3214-10
-201	1	FC136-6, 1509-6, 1508-6	4007-6, 4010-6, 4013-6
-202	1 1/8	1503-10, 1509-8, 1508-8, FC300-10, FC350-10, FC321-10	4013-8
-203	1 1/8	2807-12	1206-12
-204	1 1/4	1503-12, 1509-10, FC300-12, FC350-12	1210-12, 4010-10
-205	1 3/8	2807-16	1212-16, FC3214-16
-206	1 7/16	1503-16, FC300-16, FC350-16, FC321-16	1212-16
-207	1 1/2	FC136-12, 1508-12	4007-12, 4013-12
-208	1 5/8		FC3214-20
-209	1 3/4	1503-20, FC300-20,	1212-20 FC350-20

## FT1033 Assembly mandrels

The FT1033 assembly mandrels are exclusively designed for use with the FT1028 assembly machine. Secured in the chuck they speed the volume production of Eaton Aeroquip three piece reusable hose fittings.

Part Number	Fitting Number	Part Number	Fitting Number
FT1033-1	FC9215-0404	FT1033-23	401-6
FT1033-2	FC9215-0504	FT1033-24	411-6
FT1033-3	FC9215-0808	FT1033-25	411-8 401-8
FT1033-4	FC9215-0506	FT1033-26	411-10 401-10
FT1033-5	FC9215-1010	FT1033-27	401-12
FT1033-6	FC9210-0606	FT1033-28	411-12
FT1033-7	FC9210-1212	FT1033-29	406-16
FT1033-8	FC9211-0606	FT1033-30	411-16
FT1033-9	FC9211-1212	FT1033-31	406-20
FT1033-10	FC9211-1616	FT1033-32	411-20
FT1033-11	FC9211-2020	FT1033-33	406-24
FT1033-13	FC9212-0204 FC9212-0404 FC9216-0404	FT1033-34	411-24
FT1033-14	FC9212-0406 FC9212-0606	FT1033-35	406-32
FT1033-15	FC9212-0608 FC9212-0808	FT1033-36	411-32
FT1033-16	FC9212-0810	FT1033-37	412-2-4 412-4-4
FT1033-17	FC9212-1212	FT1033-38	412-4-5
FT1033-18	FC9212-1616	FT1033-39	412-4-6
FT1033-19	FC9212-2020	FT1033-40	412-6-12
FT1033-21	411-4 401-4	FT1033-41	412-8-10 412-12-10
FT1033-22	411-5 401-5	FT1033-42	412-12-12

## FT1271 Split flange assembly tooling

### Specifications

The Eaton designed FT1271 split flange tooling is specifically designed for the FT1028 assembly machine. This tooling makes it easier to secure split flange hose fitting nipples in the chuck of the assembly machine.



## FT1095 Elbow reusable fitting holders

### Specifications

The optional FT1095 elbow fitting holders will allow the operator to make double elbow hose assemblies on the FT1097 assembly machine and can be used with the FT1028 machine.

### Ordering Instructions

Part Number	Nipple Hex Size	For Use With Nipples Marked	Adapter Required For FT1028 Machine
FT1095-100-1	3/8	MP-4	FT1095-101
FT1095-100-2	7/16	MP-5	
FT1095-100-3	1/2	MP-6, HP-4	
FT1095-100-4	5/8	MP-8, HP-6	
FT1095-150-1	11/16	HP-8	FT1095-151
FT1095-150-2	3/4	MP-10	
FT1095-150-3	7/8	MP-12	
FT1095-150-4	15/16	HP-12	
FT1095-150-5	1 1/8	MP-16	
FT1095-150-6	1 1/4	HP-16	
FT1095-150-7	1 3/16	HP-10	
FT1095-200-1	1 3/8	MP-20	FT1095-201
FT1095-200-2	1 5/8	HP-20	

## FT1220-10 Reusable fitting assembly mandrels



### Specifications

The FT1220-10 kit includes all assembly mandrels listed for -4 through -20 for the assembly of Eaton 411, 401, and 406 reusable hose fittings. Individual mandrels may also be ordered by using the part numbers to the right.

Thread type	SAE 37° (JIC)	SAE 45° PTT	30°
<b>Use with fitting Nos.</b>	<b>411</b>	<b>401</b>	<b>406</b>
<b>Dash size</b>			
-4	1582-4S	1582-4S	
-5	1582-5S	1582-5S	
-6	583-6S	1582-6S	
-8	1582-8S	1582-8S	
-10	1582-10S	1582-10S	
-12	583-12S	1582-12S	
-16	1563-16S		1561-16S
-20	1563-20S		1561-20S
-24	1563-24S		1561-24S
-32	1563-32S		

Kit Part Number	Fitting Part Number	Thread Types	Size Range
1562 (not shown)	401, 406, 411, 412	SAE 45°, SAE 37° (JIC), PTT, NPTF	-4 thru -32
1597 (not shown)	401, 412	SAE 45°, NPTF	-4 thru -12
1598 (not shown)	411, 412	SAE 37° (JIC), NPTF	-4 thru -32
1599 (not shown)	411, 412	SAE 37° (JIC), NPTF	-4 thru -12
FT1220-10	401, 406, 411, 412	SAE 45°, SAE 37° (JIC), PTT, NPTF	-4 thru -20

## F2015 SOCKETLESS fitting bench mounted assembly machine



### Hose Specifications

- SOCKETLESS hose, all sizes

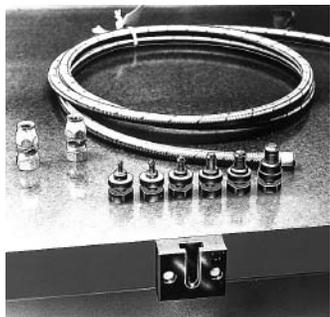
### Features

- Fast, hand assembly
- Bench mounted
- Hose is securely held
- Mandrels included

### Ordering Instructions

**F2015** Complete machine

## FT1081 PTFE hose assembly tool kit



### Hose Specifications

Smooth Bore PTFE Hose, -03, -04, -05, -06, -08, -10 and -12 hose. FT1090-3-10-4 and FT1090-3-10-5 are useful wire flare tools to use in conjunction with kit FT1081.

### Features

- Inexpensive
- Easy to use
- Seats PTFE tube against sleeve

### Ordering Instructions

**FT1081** Complete tool kit

Includes:

- FT1081-3-1** mandrel holder
- FT1081-3-2-3** mandrel -3 hose
- FT1081-3-2-4** mandrel -4 hose
- FT1081-3-3-5** mandrel -5 hose
- FT1081-3-4-6** mandrel -6 hose
- FT1081-3-5-8** mandrel -8 hose
- FT1081-3-6-10** mandrel -10 hose
- FT1081-3-7-12** mandrel -12 hose
- FT1081-16** mandrel -16 hose
- FT1081-20** mandrel -20 hose

## FT1038A PTFE hose tool



### Hose Specifications

- Smooth bore PTFE Hose, -03, -04, -05, -06, -08, -10 and -12

### Features

- Small
- Hand held tool

### Ordering Instructions

- FT1038A** PTFE Hose Tool (-03 thru -12)
- FT1038B** PTFE Hose Tool (-16, -20)

# Hose Cut Off Equipment

## FT1258 Cut off tool



### Specifications

FT1258 bench mounted cut off tool. A bench mounted cutter for in-plant production of Polyon hose assemblies and other fabric reinforced hose styles.

### Ordering Instructions

**FT1258** Cut-off tool

**FT1258-2-2** Blade kit

Package of three replacement blades for FT1258 tool which are designed to cut all fabric reinforced hose including Kevlar.\*

*\*Kevlar is a trademark of E.I. DuPont.*

## FT1500 Machine



### Features:

- Powerful 4.2-hp high torque motor for faster and easier cutting
- Clear face shield guard for added safety
- Includes mounting hardware and protective goggles

- Standard 14" scalloped blade:
  - Cuts 1- and 2-wire braided hose through 2" I.D.
  - Cuts 4-wire spiral hose through 2" I.D.
  - Cuts 6-wire spiral hose through 1-1/2" I.D.
  - Lasts longer by dissipating heat/reducing friction
  - Blade can be reversed for added blade life
  - New blade sharpening service agreement

### Ordering Instructions

**Machine:**

**FT1500** Includes machine with 14" scalloped blade

### • Optional Cutting Blades:

- **FT1500-1** Scalloped blade is standard
- **FT1500-2** Smooth beveled blade cuts Stainless Steel braided cover hose.
- **FT1500-4** Scalloped toothed blade cuts Industrial Fluid Transfer hoses through 4" I.D.

SPECIALTY &  
TRUCK HOSE

LOW & MEDIUM  
PRESSURE HOSE

HIGH PRESSURE HOSE

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**S1104**  
**Hose cut off machine**



**Hose Specifications**

- Single and Double Wire Reinforced, 1/4" to 3" I.D.
- Four and Six Spiral Wire Reinforced, 1/4" to 1 1/2" I.D. with optional blades FT1101-1 and FT1101-2, spiral wire capacity is increased to 2"

**Features**

- Compact, 22" x 24"
- Light, 130 lbs.
- Dual V-belt drive
- 10" cutting blade
- U.L. listed

*\*A 3 hp, 230V AC, single phase machine is also available but not recommended because of reduced torque and less capability when cutting larger size hose. Order by part number S1104-230.*

**Electrical Requirements**

3 hp, 230/460V, 3 phase, 60 Hz.

Machine wired for 230V AC. Change connections as shown on motor plate for 460V. Also, replace 230V motor heater with 460V motor heater included with machine.

**Ordering Instructions**

Machine:

**S1104** Basic machine, 230/460V, 3 phase, 60 Hz

**S1026** Hose measuring gauge attachment

**FT1215** Hose reel attachment

**S1118** Coolant spray system (required when cutting spiral wire hose)

**SC1709** 10" Replacement cutting blade

**SC1772** Welded steel table

**Optional Cutting Blades**

**FT1101-1**

10" Scalloped Blade



**FT1101-2**

10" Abrasive Blade



**FT1260**  
**Hose cut off machine**



**Hose Specifications**

- All Hose Constructions – 1/4" to 4" I.D.

**Features**

- Built in safety features
- Easy to operate
- 16" abrasive wheel
- Heavy duty design
- Low maintenance
- V shaped vise
- U.L. listed

**Ordering Instructions**

Machine:

**FT1260-1-1** Base machine with stand. 230/460V, 3 phase, 60 Hz

**FT1260-1-2** Base machine with stand and fume exhauster. 230/460V, 3 phase 60 Hz

**FT1260-1-3** Base machine with stand. 230V, single phase, 60 Hz

**FT1260-1-4** Base machine with stand and fume exhauster. 230V, single phase, 60 Hz

**FT1260-2-5** Optional hood (can be used only with the -1-2 and the -1-4 models) Eaton recommends the use of FT1260-2-5, optional hood.

**Replacement Components:**

**FT1260-3-1**

Replacement 16" fiberglass reinforced abrasive wheel

**Electrical Requirements**

Electrical requirements will vary depending on options selected.

Contact Eaton for additional information.

**S1120  
Hose preparation package**



SPECIALTY &  
TRUCK HOSE

LOW & MEDIUM  
PRESSURE HOSE

HIGH PRESSURE HOSE

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**Hose Specifications**

Cutting 3/16" to 3"  
Skiving 1/4" to 2"

**Features**

- Fast, efficient hose cutting
- 10" cutting blade
- Easily adjusted, self-contained skiving mandrels for reusable fittings
- Safe collection of skived rubber
- Spray system prolongs blade life
- Rotary hose reel for easy hose handling
- 24" x 42" x 24", 240 lbs.
- Double V belt cutting drive
- Direct skiving drive

**Electrical Requirements**

3 hp (in S1102 machine saw), 1/3 hp (in dust collector), 230/460V AC, 60 Hz, 3 phase

**Blade Selection**

Eaton offers three different cutting blades to make cutting of wire braid and spiral wire hose quick and easy.

**Ordering Instructions**

The S1120 hose preparation package may be ordered as a complete assembly or the five different components of the package may be ordered individually.

**S1120\*** Hose Preparation Package

**S1102\*** Includes: Basic Cut Off and Skiving Machine

**S1043\*** Collector and Table

**S1026** Hose Measuring Gauge Attachment

**FT1215** Hose Reel Attachment

**S1118** Coolant Spray System

**SC1681** (Optional) Replacement Skiving Brush

\*A 3 hp 230V AC single phase motor is also available but not recommended due to reduced torque and less capability in cutting larger size hose. The following part numbers must be used when ordering components with single phase motors:

S1120-230 Hose Preparation Package

S1102-230 Basic Cut Off and Skiving Machine

S1043-230 Dust Collector and Table



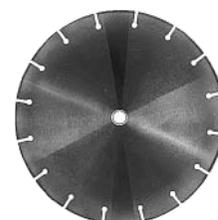
SC1709

Standard replacement cutting blade (one included with each machine).



FT1101-1

Scalloped cutting blade (optional; used for cutting spiral wire hose).

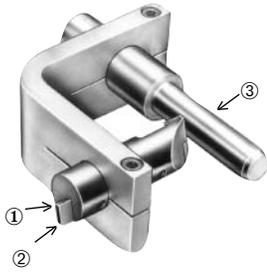


FT1101-2

Abrasive cutting blade (optional; used for cutting spiral wire hose).

# Skiving Equipment

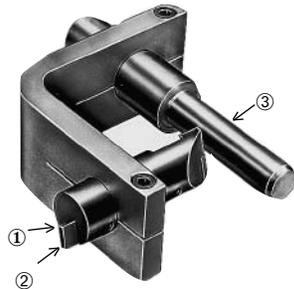
## Skiving Tools



FT1229-Size

Silver Chromate Mandrel  
(for reusable fittings)

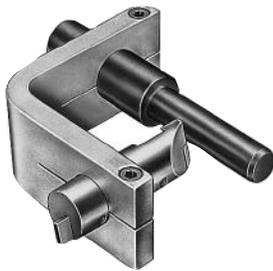
- ① FT1229-2-3 blade holder
- ② FT1229-3-4 skive blade
- ③ FT1229-100-size



FT1230-Size

Yellow Chromate Mandrel  
(for crimp fittings)

- ① FT1229-2-3 blade holder
- ② FT1229-3-4 skive blade
- ③ FT1230-100-size



FT1231-Size

Black Oxide Mandrel  
(for internal skive crimp fittings)

## For skiving rubber covered wire reinforced hoses

When selecting skive tools, refer to Eaton document A-EQCR-TM001-E for proper skive length of hose sizes.

Hose Size	Reusable Fittings		Crimp Fittings		Crimp Internal Skive Fittings	
	FT1229	Skive Length	FT1230	Skive Length	FT1231	Skive Length
-03			-3	0.45		
-04	-4	0.91	-4	0.76		
-05			-5	0.76		
-06	-6	1.15 1.23 1.30	-6	.90		
-08	-8	1.25	-8	1.04	-8	1.34
-10	-10	1.25	-10	1.11		
-12	-12	1.40	-12 <sup>1</sup>	1.21 1.31	-12	1.40
		-12B <sup>3</sup>		2.40		
-16	-16	1.65 2.30	-16	1.30	-16	1.85
		-16B <sup>3</sup>				
-20	-20	2.09	-20 <sup>1</sup>	1.66 1.52 1.88	-20	2.05
		-20A <sup>4</sup>				
		-20B <sup>3</sup>				
-24	-24	1.95	-24 <sup>1</sup>	1.74 1.64 2.18	-24	2.05
		-24B <sup>5</sup>		2.60		
-32	-32 <sup>2</sup>	2.05			-32	2.30

<sup>1</sup>Adjustable tool.

<sup>2</sup>FT1229-32 tool is used for reusable and crimp fittings.

<sup>3</sup>For FC606.

<sup>4</sup>For FC136.

<sup>5</sup>For FC136 and FC254.

## FT1240 Internal skive tooling



FT1240-100-Size



FT1240-150-Size

\* When tooling begins to wear, contact customer service for information on how to exchange for sharpened tooling.

Internal Skive Tool	FC136	FC254	FC323 FC324 FC273	FC325	FC606
FT1240-150-8		-08			
FT1240-100-12			-12	-12	
FT1240-150-12		-12			
FT1240-150-16	-16	-16	-16	-16	-16
FT1240-100-20	-20		-20	-20	
FT1240-150-20		-20			-20
FT1240-100-24	-24		-24	-24	
FT1240-150-24		-24			
FT1240-100-32	-32		-32	-32	
FT1240-150-32		-32			

## FT1279 Auger attachment



The FT1279 auger attachment permits efficient skiving of rubber covered wire reinforced hose.

Designed for use with FT1229, FT1230 and FT1231 skiving tools, the FT1279 auger attachment promotes quick completion of hand skiving operations.

SPECIALTY & TRUCK HOSE  
LOW & MEDIUM PRESSURE HOSE  
HIGH PRESSURE HOSE  
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# Hose Proof Test Stands

## FT1312 Hose proof test stand



### Hose Specifications

Assemblies 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 Aeroquip hose assembly, up to 22,000 psi.

\*Lexan is a General Electric trademark.

## FT1261 Hose proof test stand



### Hose Specifications

Assemblies up to 2" I.D.,  
6 spiral wire in 50 ft. coil lengths

### Features

- Designed to use tap water, eliminating the need for a special test fluid
- Air regulator and gauge provide easy pressure adjustment and monitoring
- Tough transparent Lexan\* lid
- 96" x 84" x 54", 800 lbs.

### Power Unit

The power unit of the FT1261 tester is a compact, economical air driven hydraulic pump. It will provide sufficient hydraulic pressure to proof test any Aeroquip hose assembly, up to 22,000 psi.

\*Lexan is a General Electric trademark.

## FT1312 and FT1261 Standard adapter selection chart

Hose Fitting* Style and Size	Fitting Adapter Part Number	Pressure Port Adapter Part Number	Plug or Cap Part Number
<b>SAE 37° (JIC) Swivel</b>			
-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	2027-10-8S	**	900599-10
-12	2027-8-12S	**	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
<b>SAE 45° Swivel</b>			
-4	2000-6-4B	2081-12-6S	900599-4
-5	2000-6-5B	2081-12-6S	900599-5
-6	2000-6-6B	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
<b>Male Pipe</b>			
-2	2081-8-2S	2081-12-8S	2046-2-2S, 2082-2S
-4	2081-8-4S	2081-12-8S	2046-4-4S, 2082-4S
-6	2081-8-6S	2081-12-8S	2046-6-6S, 2082-6S
-8	2081-8-8S	**	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.

SPECIALTY &  
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LOW & MEDIUM  
PRESSURE HOSE

HIGH PRESSURE HOSE

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## FT1058 Hose proof test stand



### Features

- Pressure gauge
- Release valve
- Hand hydraulic pump
- Foot switch
- Fluid reservoir, use SAE 5 wt. hydraulic oil (oil not included)
- Electric fluid pump
- Safety lid
- Pressure port (3/4-14 NPTF Female Port)
- 42" x 22" x 9" (41" with legs), 75 lbs.
- 10,000 psi maximum proof pressure

### Electrical Requirements

110V 60 Hz, single phase motor

### Ordering Instructions

FT1058 as shown above. Legs can be removed for bench mounting.

## FT1058 Adapter selection chart

Hose Fitting* Style and Size	Fitting Adapter Part Number	Pressure Port Adapter Part Number	Plug or Cap Part Number
<b>SAE 37° (JIC) Swivel</b>			
-4	2021-6-4S	2081-12-6S	900599-4
-5	2021-6-5S	2081-12-6S	900599-5
-6	2021-12-6S		900599-6
-8	2021-12-8S		900599-8
-10	2021-12-10S		900599-10
-12	2021-12-12S		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
<b>SAE 45° Swivel</b>			
-4	2000-6-4B	2081-12-6S	900599-4
-5	2000-6-5B	2081-12-6S	900599-5
-6	2000-6-6B	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
<b>Male Pipe</b>			
-2	2081-8-2S	2081-12-8S	2046-1-2S, 2082-2S
-4	2081-8-4S	2081-12-8S	2046-4-4S, 2082-4S
-6	2081-8-6S	2081-12-8S	2046-6-6S, 2082-6S
-8	2081-12-8S		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

\*Adapters are available for other hose fitting styles. Contact Eaton.