

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.

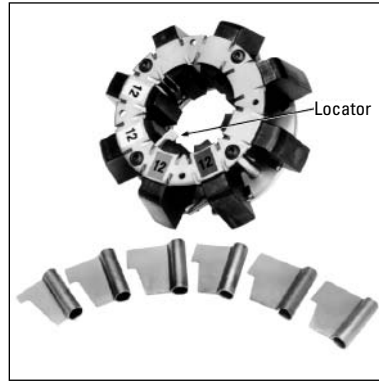
Crimp Die Cages

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 ¹	X	X ¹				X ¹	X ¹				X ¹	
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

¹ 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