

# 1236 / 900 Fusion Machines Fusion Capability for 12" IPS – 36" OD pipe (340mm – 900mm)

Patent Numbers: 5,814,182 - 6,212,748 - 6,212,747 - 6,021,832 Japanese Patent No 4285806 European Patent No 0903215 (other patents pending)



## 1236 & TracStar® 900

The **MegaMc® 1236** and **TracStar 900** machines will butt fuse pipe sizes from **12" IPS to 36" OD (340mm to 900mm)**. Above ground or in the ditch, these machines bring the flexibility of the smaller machines to MegaMc large-diameter fusion. These fusion machines have all the advantages of their predecessors with additional features for in-ditch, close-quarter work.

The carriage has 4 jaws with a removable 3-jaw carriage and is capable of top-loading the heater and facer to maximize functionality within limited space. The TracStar 900 is mounted on independently controlled, self-propelled tracks and features a wireless remote driving control.

Both models are hydraulically powered to assist all fusion functions including the operation of the jaws, pipe lifts, heater and facer. The machines allow for butt fusion of most fittings without special holders or removal of outer jaw. Mitered inserts are available for fabricating ell.

The **Automatic TracStar 900** controls and monitors the heat, soak, fuse and cool cycles. It has a built-in data logging feature that keeps a record of each fusion joint, which allows you to verify joint integrity.

### 1236

- 4- or 3-jaw capable for improved in-ditch fusion
- Carriage can be easily removed for in-ditch use
- For confined spaces can be converted to top-loading heater and facer
- DataLogger® compatible
- Rugged outriggers for stability

### TracStar® 900

- Track mounted, self-contained, self-propelled, all-terrain
- On-board generator for powering heater
- Carriage can be easily removed for in-ditch use
- Also available as an Automatic fusion machine
- 4- or 3-jaw capable for improved in-ditch fusion
- For confined spaces can be converted to top-loading heater and facer
- Dual speed tracks

**MACHINE PLUG TYPE**  
To find the right electrical plug type see **Page 139**

**GENERATOR**  
To size your generator see **Page 145**

**CYLINDER FORCE**  
For help selecting a cylinder force see **Page 135**

**DataLogger**  
To learn more about the DataLogger see **Page 108**



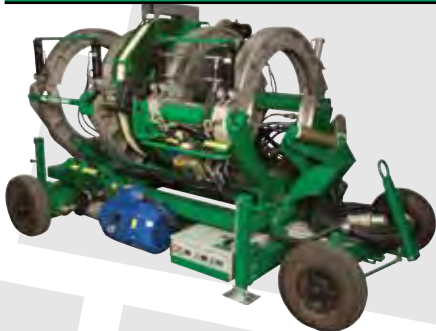
Visit the Fusion Experts at [www.mcelroy.com](http://www.mcelroy.com)





Machine Type	Model No.	Cylinder Force	Input Voltage Requirements	Minimum Power Requirements *	Plug Type **
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**1236** Includes fusion machine, facer, heater and lifting assembly. Optional heater/facer stand sold separately.



Rolling	A3639501	High	220V - 240V, 50/60Hz, 3Ph	39.4KVA/37.7KW	I
Rolling	A3639502	Medium	220V - 240V, 50/60Hz, 3Ph	39.4KVA/37.7KW	I
Rolling	A3639503	Low	220V - 240V, 50/60Hz, 3Ph	39.4KVA/37.7KW	I

**TracStar® 900** Includes fusion machine, facer, heater, remote control with batteries and 12V charger and lifting assembly. Optional heater/facer stand sold separately.



Tracked	AT9028001	High	None, On-Board Generator	Self-Contained Diesel	N/A
Tracked	AT9028002	Medium	None, On-Board Generator	Self-Contained Diesel	N/A
Tracked	AT9028003	Low	None, On-Board Generator	Self-Contained Diesel	N/A

Automatic Tracked	AT9028101	High	None, On-Board Generator	Self-Contained Diesel	N/A
Automatic Tracked	AT9028102	Medium	None, On-Board Generator	Self-Contained Diesel	N/A
Automatic Tracked	AT9028103	Low	None, On-Board Generator	Self-Contained Diesel	N/A


\* This is the minimum generator requirement at sea level, see your generator supplier or refer to the generator sizing form on page 145.

\*\* Refer to the plug type reference chart on page 139 for your correct plug type.

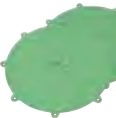
# 1236 / 900 Accessories

Part No.	Description
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### Spare Facer Blade Kit - 6 blades, screws and wrench

	3615707	Standard blades.
	3615707C	Extended-life blades.

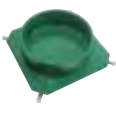
### Spare Heater Plate Kit

	A3617201	Set of 2 plates with anti-stick coating required for butt fusion. Kit includes attaching screws and wrench.
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### Pipe Support Stand - See page 103 for more information

	T9017401	TracStar 630/900 pipe stand
	4823901	Heavy-duty pipe stand

### Stub End Holder - To learn more, see page 115


	3606901	Holds stub end for butt fusion.
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### MegaMc® Pipe Stand - To learn more, see page 102 **NEW!**


	Gas-powered pipe stand with lateral and vertical movement.	
	3645001	8" - 36" pipe sizes
	6513501	36" - 65" pipe sizes

Part No.	Description
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### DataLogger® - To learn more, see page 108

	Used to record and document fusion process parameters.	
	DL6303	Wireless DataLogger
	DL6304	Wired DataLogger <b>NEW!</b>


### Pyrometer Kit

	A218804	Accurately checks surface temperatures of heater.
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### In-Ditch Heater/Facer Stand

	T9027301	Heater/Facer stand recommended for tight in-ditch installations where top loading of the heater and facer is necessary.
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### In-Ditch Extension Kit

	T2408301	Set of 40' hydraulic extension hoses and cable. Required for use when doing in-ditch fusion.
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Part No.	Description
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## Auto-Only Accessories

### In-Ditch Automatic Extension Kit

	T9002005	Set of 40' hydraulic extension hoses, cable, facer stand and pendant strap. Required for use when doing automatic in-ditch fusion.
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### Spare Automated Pendant

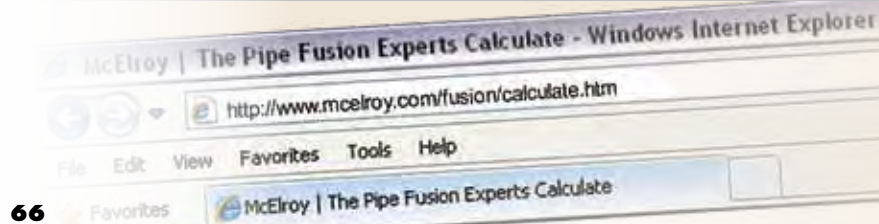
	T5007110	Spare user interface for Automatic TracStar 630 and 900.
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### Spare Automatic Control Box

	T5001809	Spare control box for quick replacement. For use with Automatic TracStars 630 and 900.
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### Spare Automated USB Thumb Drive & Adapter

	AT5040101	Used for downloading fusion records from the Automated Pendant to a USB thumb drive.
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## Calculate Fusion Pressure Online

Go online now and use our handy fusion pressure calculator!

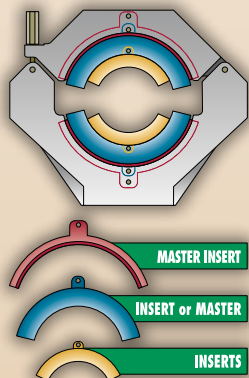
<http://www.mcelroy.com/fusion/calculate.htm>

## Butt Fusion Inserts

Our cast inserts have been surface-hardened for longer life. Fabricated inserts are constructed out of precision laser-cut carbon steel and are normally lighter in weight than cast inserts.

All inserts are serrated for maximum grip on the pipe. Inserts are made for one size pipe only. Not all inserts fit directly in the jaws. Some inserts nest inside other inserts, called master inserts.

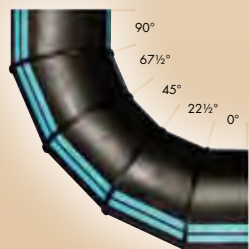
**NOTE:** Other sizes of inserts are available upon request. Contact your McElroy representative about inserts to fit your needs.



## Mitered Inserts

Mitered inserts are used to fabricate segmented ells. Our standard miter is 11¼°, other mitered angles are available upon request.

**Standard Ell Configuration**  
90° Ell 11¼° miter shown



### Butt Fusion Inserts Set = 8 Inserts

All inserts below fit in 36" (914mm) jaws			
Inserts	Pipe OD	Cast	Fabricated
900mm	35.43 (900mm)	N/A	3629401
34" OD	34.00 (864mm)	3603532	N/A
32" OD	32.00 (813mm)	3603512	3629501
800mm	31.50 (800mm)	3603509	3629601
30" OD	30.00 (762mm)	3603515	3629701
28" OD	28.00 (710mm)	3603418	3619705
26" OD	26.00 (660mm)	3606614	3629801
24" DIPS	25.80 (655mm)	3606617	3629901
630mm Master	24.80 (630mm)	3606604	N/A

All inserts below require 630mm Master inserts			
24" OD	24.00 (610mm)	2411604	2402301
22" OD	22.00 (560mm)	2411919	N/A
20" DIPS	21.60 (549mm)	2411922	N/A
20" OD	20.00 (508mm)	2412010	N/A
500mm	19.69 (500mm)	2412011	N/A
18" DIPS	19.50 (495mm)	2412023	N/A
18" Master	18.00 (457mm)	2411708	N/A

All inserts below require 630mm & 18" OD Master			
450mm	17.72 (450mm)	N/A	2418201
16" DIPS	17.40 (442mm)	2412117	N/A
16" OD	16.00 (406mm)	2412110	N/A
400 mm	15.75 (400mm)	2412111	N/A
14" DIPS	15.30 (389mm)	2412215	N/A
14" OD	14.00 (355mm)	2412206	N/A
340 mm	13.39 (340mm)	2411811	N/A
12" DIPS	13.20 (335mm)	2411826	N/A
12" Master	12.75 (324mm)	2411810	N/A

### 11¼° Mitered Inserts Set = 4 Inserts & 1 Temp.

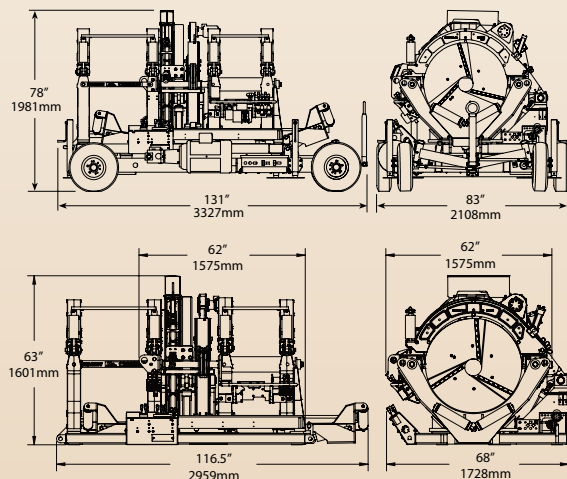
All inserts below fit in 36" (914mm) jaws		
Inserts	Pipe OD	Set No.
32" OD	32.00 (813mm)	3603526
800mm	31.50 (800mm)	3603523
30" OD	30.00 (762mm)	3603520
28" OD	28.00 (711mm)	3603529
26" OD	26.00 (660mm)	3606623
24" DIPS	25.80 (655mm)	3606620
630mm	24.80 (630mm)	3606610
24" OD	24.00 (610mm)	3606613
630mm Master	24.80 (630mm)	3606604

All inserts below require 630mm Master inserts		
22 OD/560	22.00 (560mm)	2421229
20" DIPS	21.60 (549mm)	2421257
20" OD	20.00 (508mm)	2421217
500mm	19.68 (500mm)	2412014
18" DIPS	19.50 (495mm)	2421251
18" OD	18.00 (457mm)	2421215
450mm	17.72 (450mm)	2421214
16" DIPS	17.40 (442mm)	2421245
420mm	16.53 (420mm)	2421266
18" Master	18.00 (457mm)	2411708

All inserts below require 630mm & 18" Master inserts		
16" OD	16.00 (406mm)	2420619
400mm	15.75 (400mm)	2420618
14" DIPS	15.30 (389mm)	24206122
370mm	14.57 (370mm)	24206125
14" OD	14.00 (355mm)	2420617
12" DIPS	13.20 (335mm)	24206110
12" IPS	12.75 (324mm)	2420615
315mm	12.40 (315mm)	2420614

# 1236 / 900 Specifications

## 1236



### CAPACITY

Fuses Pipe Sizes: ..... 12" IPS – 36" OD pipe (340mm – 900mm)

### WEIGHT

Machine: ..... 6842 lbs (3103Kg)  
 4 Jaw Carriage Configuration: ..... 3865 lbs (1753Kg)  
 3 Jaw Carriage Configuration: ..... 1820 lbs (825Kg)  
 Facer: ..... 480 lbs (218Kg)  
 Heater: ..... 382 lbs (173Kg)

### HYDRAULICS

System Pressure: ..... 2300 PSI (158 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 28 Gallons (106 Liters)  
 Motor: ..... 20HP, 3 Phase, 240V

### POWER

Heater Power: ..... 20,461 Watt  
 Facer Power: ..... Hydraulic

### CHASSIS

Frame: ..... Welded steel tube construction  
 Front Axle: ..... Articulating  
 Brake: ..... Mechanical

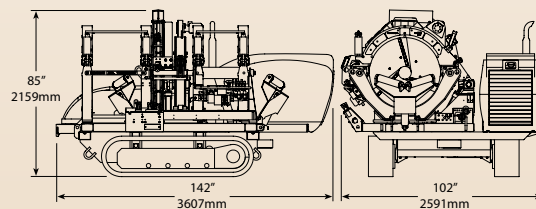
### MOBILITY

Tires: ..... 6.90 - 9NHS, 75 PSI Max.  
 Transportation: ..... Pulled via towing ring  
 Lifting ..... Lift points and lifting assembly

### WARRANTY

Term: ..... 3 Years, see page 5 for details

## TracStar® 900



### CAPACITY

Fuses Pipe Sizes: ..... 12" IPS – 36" OD pipe (340mm – 900mm)

### WEIGHT

Machine: ..... 9527 lbs (4321Kg)  
 4 Jaw Carriage Configuration: ..... 3865 lbs (1753Kg)  
 3 Jaw Carriage Configuration: ..... 1820 lbs (825Kg)  
 Facer: ..... 480 lbs (218Kg)  
 Heater: ..... 382 lbs (173Kg)

### HYDRAULICS

System Pressure: ..... 2300 PSI (158 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 12 Gallons (45 Liters)

### ENGINE

Engine Type: ..... 84.5 HP, 3600cc, 4-cylinder turbo  
 Fuel Type: ..... Diesel  
 Fuel Tank Capacity: ..... 23 Gallons (87 Liters)  
 Operational Tank Capacity: ..... 17 Hours  
 Starting System: ..... Electric

### ELECTRICAL

Input: ..... None, self-contained

### POWER

Heater Power: ..... 20,461 Watt  
 Facer Power: ..... Hydraulic

### CHASSIS

Frame: ..... Welded steel construction  
 Brake: ..... Self-locking

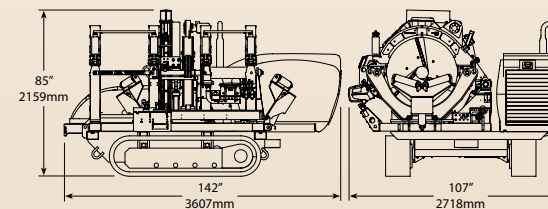
### MOBILITY

Tracked: ..... Rubber crawler tracks  
 Transportation: ..... Self-propelled  
 Vehicle speed: ..... Low 1mph / High 1.7mph  
 Lifting ..... Lift points and lifting assembly

### WARRANTY

Term: ..... 3 Years, see page 5 for details

## Automatic TracStar® 900



### CAPACITY

Fuses Pipe Sizes: ..... 12" IPS – 36" OD pipe (340mm – 900mm)

### WEIGHT

Machine: ..... 9527 lbs (4321Kg)  
 4 Jaw Carriage Configuration: ..... 3865 lbs (1753Kg)  
 3 Jaw Carriage Configuration: ..... 1820 lbs (825Kg)  
 Facer: ..... 480 lbs (218Kg)  
 Heater: ..... 382 lbs (173Kg)

### HYDRAULICS

System Pressure: ..... 2300 PSI (158 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 12 Gallons (45 Liters)

### ENGINE

Engine Type: ..... 84.5 HP, 3600cc, 4-cylinder turbo  
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 Fuel Tank Capacity: ..... 23 Gallons (87 Liters)  
 Operational Tank Capacity: ..... 17 Hours  
 Starting System: ..... Electric

### ELECTRICAL

Input: ..... None, self-contained

### POWER

Heater Power: ..... 20,461 Watt  
 Facer Power: ..... Hydraulic

### CHASSIS

Frame: ..... Welded steel construction  
 Brake: ..... Self-locking

### MOBILITY

Tracked: ..... Rubber crawler tracks  
 Transportation: ..... Self-propelled  
 Vehicle speed: ..... Low 1mph / High 1.7mph  
 Lifting ..... Lift points and lifting assembly

### WARRANTY

Term: ..... 3 Years, see page 5 for details

**Note:** All carriage weights are without facer and heater. Specifications subject to change without notice. Additional dimensions available on page 143.

**1236 / 900**

