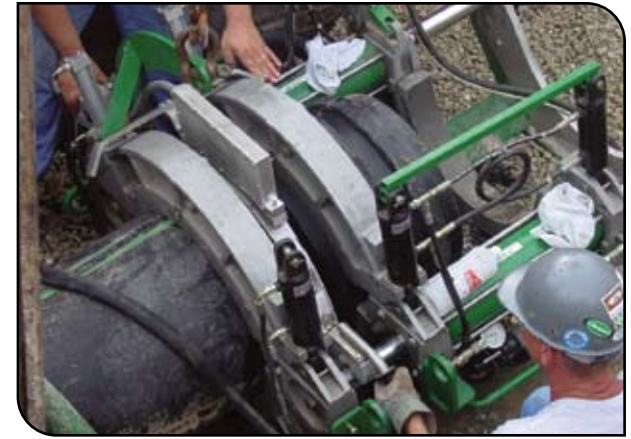


Patent Numbers: 5,814,182 6,212,748 6,212,747 6,021,832 (others pending)



## No.824 & TracStar® 630

The re-designed **MegaMc® No.824** and the new **TracStar 630** machines will butt fuse pipe sizes from **8" IPS to 24" OD (225mm to 630mm)**. Above ground or in the ditch, these all new machines bring the flexibility of the smaller machines to MegaMc large diameter fusion. It is the first fusion machine of this size specifically designed for in-ditch, close quarter work with all the advantages of a track or rolling machine.

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

630 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 ells.

The **Automatic TracStar 630** 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.

## No.824

- Four or three 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 & facer
- DataLogger® compatible
- Rugged outriggers for stability

## TracStar® 630

- 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
- Four or three jaw capable for improved in-ditch fusion
- For confined spaces can be converted to top-loading heater & facer
- Dual Speed Tracks

**MACHINE PLUG TYPE**  
To find the right electrical plug type see  
**Page 107**

**GENERATOR**  
To size your generator see  
**Page 114**

**CYLINDER FORCE**  
For help selecting a cylinder force see  
**Page 103**

**DataLogger**  
To learn more about the DataLogger see  
**Page 78**



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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**No.824** Includes: Fusion machine, facer, heater, 24" OD butt fusion inserts and lifting assembly. Optional heater/facer stand sold separately.



Rolling	A2435501	High	220V - 240V, 50/60Hz, 3Ph	29.8KVA/28.1KW	I
Rolling	A2435502	Medium	220V - 240V, 50/60Hz, 3Ph	29.8KVA/28.1KW	I
Rolling	A2435503	Low	220V - 240V, 50/60Hz, 3Ph	29.8KVA/28.1KW	I

**TracStar® 630** Includes: Fusion machine, facer, heater, 24" OD butt fusion inserts, remote control with batteries & 12V charger. Optional heater/facer stand sold separately.



Tracked	AT2400101	High	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A
Tracked	AT2400102	Medium	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A
Tracked	AT2400103	Low	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A
Automatic Tracked	AT2408101	High	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A
Automatic Tracked	AT2408102	Medium	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A
Automatic Tracked	AT2408103	Low	N/A, On-Board Generator	N/A, 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 114.

\*\* Refer to the plug type reference chart on page 107 for your correct plug type.

Part No.	Description
<b>Spare 9" Facer Blade Kit</b> - Six blades, screws and wrench	
Economical blade must be positioned for different pipe sizes.	
3615710	Standard blades.
3615710 C	Extended life blades.

Part No.	Description
<b>Spare 11" Facer Blade Kit</b> - Six blades, screws and wrench	
Spans the entire facer range without repositioning.	
3615712	Standard blades.
3615712 C	Extended life blades.

Part No.	Description
<b>Spare Heater Plate Kit</b>	
A2428506	Set of 2 plates with anti-stick coating required for butt fusion. Kit includes attaching screws and wrench.

Part No.	Description
<b>Pipe Support Stand</b> - See page 82 for more information	
2429101	No.824 stand for rolling unit.
T9017401	TracStar 630/900 pipe stand
4823901	Heavy duty pipe stand 6500 lbs cap.

Part No.	Description
<b>Stub End Holder</b> - See page 111 for stub end size capability	
2419501	Holds stub end for butt fusion.

Part No.	Description
<b>DataLogger®</b> - To Learn More See Page 78 <b>NEW</b>	
DL6303	Used to record and document fusion process parameters.

Part No.	Description
<b>Pyrometer Kit</b> <b>NEW</b>	
A218803	Measures surface temperature of heater.

Part No.	Description
<b>In-Ditch Heater/Facer Stand</b> <b>NEW</b>	
T2409101	Heater/Facer stand recommended for tight in-ditch installations where top loading of the heater and facer is necessary.

Part No.	Description
<b>In-Ditch Extension Kit</b> <b>NEW</b>	
T2408301	Set of 40' hydraulic extension hoses and cable. Required for use when doing in-ditch fusion.

Part No.	Description
<b>In-Ditch Automatic Extension Kit</b> <b>NEW</b>	
T9002005	Set of 40' hydraulic extension hoses and cable. Required for use when doing automatic in-ditch fusion.

Part No.	Description
<b>Spare Automatic Pendant</b> <b>NEW</b>	
T5007110	Spare user interface for Automatic TracStar 630 and 900.

Part No.	Description
<b>Spare Automatic Control Box</b> <b>NEW</b>	
T5001809	Spare control box for quick replacement. For use with Automatic TracStars 630 and 900.

Part No.	Description
<b>Spare Automatic USB Thumb Drive &amp; Adapter</b> <b>NEW</b>	
AT5040101	Used for downloading fusion records from the Automatic Pendant to a USB thumb drive.

**INTRODUCING THE NEW DATALOGGER®**  
Record the time, temperature and pressure of each fusion joint. To learn more see page 78.

**NOW RECORDING**

## Butt Inserts

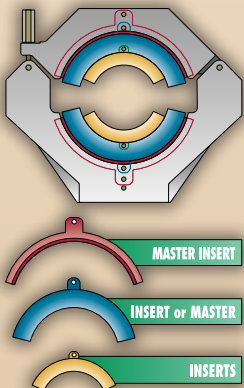
### Set = 8 Inserts

Inserts are made for one size pipe only and are required for pipe sizes less than 630mm OD. Some inserts may be purchased as a fabricated or cast insert. Not all inserts fit directly in the jaws. Some inserts nest inside other inserts, called master inserts.

### CAST vs FABRICATED

Cast inserts are made from a high strength aluminum alloy and have been surface hardened for longer life. Fabricated inserts are constructed out of precision laser cut carbon steel and rolled components to ensure proper alignment in the jaws. They are normally lighter in weight than cast inserts. All inserts are serrated for maximum grip on the pipe.

### FAB = Fabricated Inserts



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

### All inserts below fit in No.824/630 jaws

Inserts	Pipe OD	Set No.
630mm JAW	24.80 (630mm)	N/R
24" OD <b>FAB</b>	24.00 (610mm)	2402301
22" OD	22.00 (560mm)	2411919
20" DIPS	21.60 (549mm)	2411922
20" OD	20.00 (508mm)	2412010
500 mm	19.69 (500mm)	2412011
18" DIPS	19.50 (495mm)	2412023
18" <b>Master</b>	18.00 (457mm)	2411708

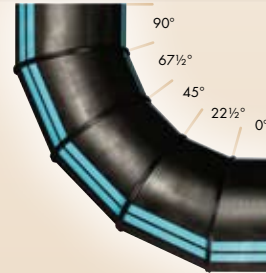
### All inserts below require 18" OD Master Inserts

Inserts	Pipe OD	Set No.
450 mm	17.72 (450mm)	N/A
450 mm <b>FAB</b>	17.72 (450mm)	2418201
16" DIPS	17.40 (442mm)	2412117
16" OD	16.00 (406mm)	2412110
400 mm	15.75 (400mm)	2412111
14" DIPS	15.30 (389mm)	2412215
14" OD	14.00 (355mm)	2412206
340 mm	13.39 (340mm)	2411811
12" DIPS	13.20 (335mm)	2411826
12" <b>Master</b>	12.75 (324mm)	2411810

### All inserts below require 18" OD & 12" Master

Inserts	Pipe OD	Set No.
315 mm	12.40 (315mm)	1211202
10" DIPS	11.10 (282mm)	1207221
280 mm	11.02 (280mm)	1207205
10" IPS	10.75 (273mm)	1207204
250 mm	9.84 (250mm)	1213503
8" DIPS	9.05 (230mm)	1207107
225 mm	8.86 (225mm)	1207010
8" IPS	8.63 (219mm)	1207104

## Mitered Inserts



### Standard Ell Configuration 11 1/4° miter shown

Mitered inserts are used to fabricate segmented ells. All inserts are surface hardened for longer life and are serrated for maximum grip on the pipe.

Inserts are made for one size pipe only. Some inserts nest inside other insert called master inserts.



### Set = 4 Inserts & 1 Template

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

### All inserts below fit in No.824/630 jaws

Inserts	Pipe OD	Set No.
22 OD/560mm x 11 1/4°	22.00 (560mm)	2421229
20" DIPS x 11 1/4°	21.60 (549mm)	2421257
20" OD x 11 1/4°	20.00 (508mm)	2421217
500mm x 11 1/4°	19.69 (500mm)	2412014
18" DIPS x 11 1/4°	19.50 (495mm)	2421251
450mm x 11 1/4°	17.72 (450mm)	2421214
18" OD x 11 1/4°	18.00 (457mm)	2421215
16" DIPS x 11 1/4°	17.40 (442mm)	2421245
420mm x 11 1/4°	16.53 (420mm)	2421266
18" <b>Master</b>	18.00 (457mm)	2411708

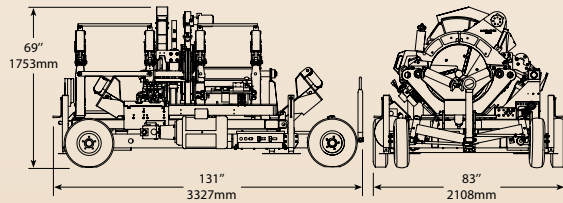
### All inserts below require 18" OD Master Inserts

Inserts	Pipe OD	Set No.
16" OD x 11 1/4°	16.00 (406mm)	2420619
400mm x 11 1/4°	15.75 (400mm)	2420618
14" DIPS x 11 1/4°	15.30 (389mm)	24206122
370mm x 11 1/4°	14.57 (370mm)	24206125
14" OD x 11 1/4°	14.00 (355mm)	2420617
12" DIPS x 11 1/4°	13.20 (335mm)	24206110
12" IPS x 11 1/4°	12.75 (324mm)	2420615
315mm x 11 1/4°	12.40 (315mm)	2420614
10" DIPS x 11 1/4°	11.10 (282mm)	24206116
12" <b>Master</b>	12.75 (324mm)	2411810

### All inserts below require 18" OD & 12" Master

Inserts	Pipe OD	Set No.
280mm x 11 1/4°	11.02 (280mm)	1214284
10" IPS x 11 1/4°	10.75 (273mm)	1214232
250mm x 11 1/4°	9.84 (250mm)	1214235
8" DIPS x 11 1/4°	9.05 (230mm)	1214269
225mm x 11 1/4°	8.86 (225mm)	1214281
8" IPS x 11 1/4°	8.63 (219mm)	1214230
200mm x 11 1/4°	7.87 (200mm)	1214234
180mm x 11 1/4°	7.09 (180mm)	1214290

### No.824



#### CAPACITY

Fuses Pipe Sizes: ..... 8" IPS – 24" OD pipe (225mm – 630mm)

#### WEIGHT

Machine: ..... 5905 lbs (2678Kg)  
 4 Jaw Carriage Configuration: ..... 3790 lbs (1719Kg)  
 3 Jaw Carriage Configuration: ..... 1350 lbs (612Kg)  
 Facer: ..... 390 lbs (177Kg)  
 Heater: ..... 240 lbs (109Kg)

#### HYDRAULICS

System Pressure: ..... 2300 PSI (157.58 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 28 Gallons (106 Liters)  
 Motor: ..... 20 HP, 3 Phase, 240V

#### POWER

Heater Power: ..... 10,950 Watt  
 Facer Power: ..... Hydraulic

#### CHASSIS

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

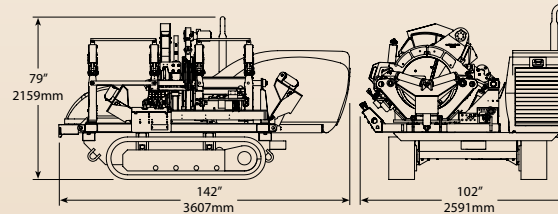
#### MOBILITY

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

#### WARRANTY

Term: ..... 3 Years see page 7 for details

### TracStar® 630



#### CAPACITY

Fuses Pipe Sizes: ..... 8" IPS – 24" OD pipe (225mm – 630mm)

#### WEIGHT

Machine: ..... 8600 lbs (3900Kg)  
 4 Jaw Carriage Configuration: ..... 3790 lbs (1719Kg)  
 3 Jaw Carriage Configuration: ..... 1350 lbs (612Kg)  
 Facer: ..... 390 lbs (177Kg)  
 Heater: ..... 240 lbs (109Kg)

#### HYDRAULICS

System Pressure: ..... 2300 PSI (157.58 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 12 Gallons (45 Liters)

#### ENGINE

Engine Type: ..... 83 HP, 3300cc, 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: ..... 10,950 Watt  
 Facer Power: ..... Hydraulic

#### CHASSIS

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

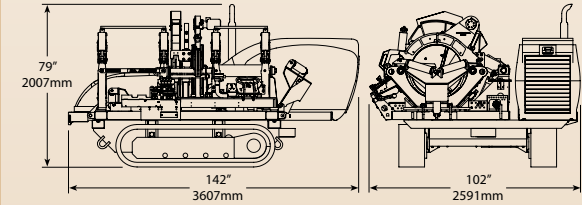
#### MOBILITY

Tracked: ..... Rubber crawler tracks  
 Transportation: ..... Self Propelled  
 Vehicle speed: ..... Low 1.04mph High 1.68mph  
 Lifting ..... Lift points & lifting assembly

#### WARRANTY

Term: ..... 3 Years see page 7 for details

### Automatic TracStar 630



#### CAPACITY

Fuses Pipe Sizes: ..... 8" IPS – 24" OD pipe (225mm – 630mm)

#### WEIGHT

Machine: ..... 8600 lbs (3900Kg)  
 4 Jaw Carriage Configuration: ..... 3790 lbs (1701Kg)  
 3 Jaw Carriage Configuration: ..... 1350 lbs (481Kg)  
 Facer: ..... 390 lbs (177Kg)  
 Heater: ..... 240 lbs (109Kg)

#### HYDRAULICS

System Pressure: ..... 2300 PSI (157.58 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 12 Gallons (45 Liters)

#### ENGINE

Engine Type: ..... 83 HP, 3300cc, 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: ..... 10,950 Watt  
 Facer Power: ..... Hydraulic

#### CHASSIS

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

#### MOBILITY

Tracked: ..... Rubber crawler tracks  
 Transportation: ..... Self Propelled  
 Vehicle speed: ..... Low 1.04mph High 1.68mph  
 Lifting ..... Lift points & lifting assembly

#### WARRANTY

Term: ..... 3 Years see page 7 for details

