

Patent No's. 5,814,182 6,212,748 6,212,747 6,021,832 4,352,708 (other patents pending)



### No.28

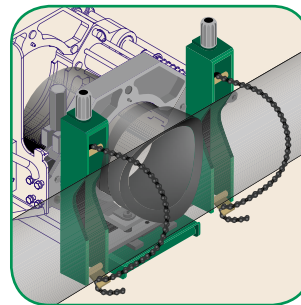
No.28 fusion machines now come in multiple model configurations to assure your pipe fusion needs are covered. They will butt fuse pipe sizes from **2" IPS to 8" DIPS (63mm to 225mm)**.

The **Rolling No.28** has staked its claim as the industry standard for over 30 years. Its ease of use and rugged quality construction opened the door for the most extensive line of 8 inch fusion machines on the market. The **TracStar No.28** offers a self-contained, self-propelled track mounted vehicle that can handle grades up to 30%. It is the number one choice on the job site for its ease of maneuverability and productivity gains. The **PitBull No.28** is used for special applications where the wheeled or tracked vehicle is not needed.

The latest upgrade to the TracStar No.28 is an option that allows automated control and monitoring over the heat, soak, fuse, and cool cycles. The **Automated**

**TracStar No.28** guides the operator through a step by step procedure for fusing pipe. It has a built-in data logging feature that keeps a record of each fusion joint, which allows you to verify joint integrity.

All units incorporate the interchangeable No.28 four jaw carriage, which can be easily removed for in-ditch fusion. For tight installations the outer fixed jaw and skid can be removed from the carriage converting it to a 3 jaw carriage for an even more compact fusion unit. Several of these units offer saddle fusion capability in the form of a Combination Unit (CU) that allows fusion up to 8" DIPS (225mm) branch saddles onto any size main.



Example of Saddle Fusion

### Rolling No.28

- Wheeled vehicle for easy maneuvering on the job site
- Carriage can be easily removed for in-ditch use
- Available in a Combination Unit (CU) for sidewall fusion
- DataLogger® compatible

### TracStar® No.28

- Self-contained, self-propelled, all-terrain
- Powered by a low vibration, CARB compliant gas engine
- Carriage can be easily removed for in-ditch use
- On-board generator for powering heater
- Fits in a standard long box truck bed for easy transport
- Available in a Combination Unit (CU) for sidewall fusion
- DataLogger® compatible
- Also available as an Automated fusion machine

### PitBull® No.28

- Compact fusion for special applications
- Hydraulic Power Unit (HPU) sold separately
- DataLogger® compatible
- Available in a Combination Unit (CU) for sidewall fusion

**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 100**

**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 **
--------------	-----------	----------------	----------------------------	------------------------------	--------------

## Rolling No.28

Includes: Fusion machine, facer, heater and insulated heater stand.



Rolling	A860805	High	120V, 60Hz, 1Ph	3.4KVA, 3.2KW	A
Rolling	A860810	Low	120V, 60Hz, 1Ph	3.4KVA, 3.2KW	A
Rolling	A860806	High	208V - 240V, 60Hz, 1Ph	3.5KVA, 3.2KW	C
Rolling CU	A860801	High	120V, 60Hz, 1Ph	3.4KVA, 3.2KW	A
Rolling CU	A860808	High	208V - 240V, 60Hz, 1Ph	3.5KVA, 3.2KW	C
Rolling CU	A860803	Low	100V, 50/60Hz, 1Ph	4.1KVA, 3.7KW	B

## TracStar® No.28

Includes: Fusion machine, facer, heater, insulated heater stand and lifting assembly.



Tracked	AT800105	High	N/A, On-Board Generator	N/A, Self-Contained Gasoline	N/A
Tracked	AT800107	Low	N/A, On-Board Generator	N/A, Self-Contained Gasoline	N/A
Automated Tracked	AT806101	High	N/A, On-Board Generator	N/A, Self-Contained Gasoline	N/A
Automated Tracked	AT806103	Low	N/A, On-Board Generator	N/A, Self-Contained Gasoline	N/A
Tracked CU	AT800106	High	N/A, On-Board Generator	N/A, Self-Contained Gasoline	N/A
Tracked CU	AT800108	Low	N/A, On-Board Generator	N/A, Self-Contained Gasoline	N/A

## PitBull® No.28


Includes: Fusion carriage, heater, facer, and insulated heater stand. HPU which includes extension hoses and lifting assembly sold separately.





In-ditch	AT805501	High	220V - 240V, 50/60Hz, 1Ph	1.75 KW	C
In-ditch	AT805503	Low	220V - 240V, 50/60Hz, 1Ph	1.75 KW	C
In-ditch CU	AT805502	High	220V - 240V, 50/60Hz, 1Ph	1.75 KW	C
In-ditch CU	AT805504	Low	220V - 240V, 50/60Hz, 1Ph	1.75 KW	C
HPU	T1810901	N/A	240V, 60Hz, 1Ph	HPU 4.9KVA/4.8KW, PitBull + HPU 6.6KVA/6.6KW	G
HPU	T1810902	N/A	220V - 240V, 50/60Hz, 3Ph	HPU 5.2KVA/4.5KW, PitBull + HPU 6.6KVA/6.2KW	D


\* 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 Facer Blade Set</b> - Includes: 4 blades, screws and wrench	
 T1208602	Standard blades.
T1208602C	Extended life blades.


Part No.	Description
<b>Spare Heater Plate Kit</b>	
 A848706	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	
 812501	Adjustable pipe stand to properly support, position and align pipe to be fused.


Part No.	Description
<b>PolyPorter™</b> - To Learn More See Page 83 <span style="float: right;"><b>NEW</b></span>	
 864201	Designed to aid in lifting of HDPE pipe into the fusion machine as well as perform as a pipe stand.


Part No.	Description
<b>PolyHorse™</b> - To Learn More See Page 84 <span style="float: right;"><b>NEW</b></span>	
 1875501	Pipe handling system that consists of a series of adjustable racks to store and help install the pipe on the job site.


Part No.	Description
<b>DataLogger®</b> - To Learn More See Page 78 <span style="float: right;"><b>NEW</b></span>	
 DL6303	Used to record and document fusion process parameters.


Part No.	Description
<b>Stub End Holder</b> - See page 111 for stub end size capability	
 805701	Holds stub end for butt fusion.


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


Part No.	Description
<b>Spare Heater 100-120,50/60Hz,1Ph</b>	
 S 848709	Microprocessor controlled with dial thermometer to monitor temperature. Includes heater plates insulated heater stand and stripper bars.
A	N/A


Part No.	Description
<b>Spare Heater 220-240,50/60Hz,1Ph</b>	
 S 848803	Microprocessor controlled with dial thermometer to monitor temperature. Includes heater plates insulated heater stand and stripper bars.
A	T806201


Part No.	Description
<b>25' Hydraulic Extension Hoses</b>	
 1219105	Set of four 25' hydraulic extension hoses required for in-ditch fusion. Extension hoses are included with PitBull HPU.


Part No.	Description
<b>In-Ditch Facer Stand</b> <span style="float: right;"><b>NEW</b></span>	
 T801101	Facer stand provides a convenient place to protect and store your facer out of the dirt and mud when fusing in-ditch.


Part No.	Description
<b>Automated In-Ditch Extension Kit</b> <span style="float: right;"><b>NEW</b></span>	
 T5002003	Set of four 25' hydraulic extension hoses and extension cables for both heater and pendant. This kit is required for automated in-ditch fusion.


Part No.	Description
<b>Spare Automated Pendant</b> <span style="float: right;"><b>NEW</b></span>	
 T5007109	Spare user interface for Automated TracStars No.28, 250, No.412, No.618 and 500.

Part No.	Description
<b>Spare Automated Control Box</b> <span style="float: right;"><b>NEW</b></span>	
 T5001808	Spare control box for quick replacement. For use with Automated TracStars No.28, 250, No.412, No.618 and 500.

Part No.	Description
<b>Spare Automated USB Thumb Drive &amp; Adapter</b> <span style="float: right;"><b>NEW</b></span>	
 AT5040101	Used for downloading fusion records from the Automated Pendant to a USB thumb drive.

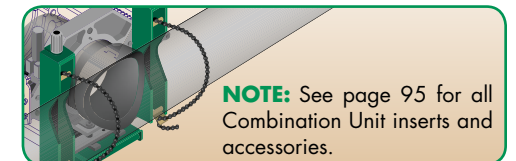
Part No.	Description
<b>Insert &amp; Adapter Box</b>	
 MJQ00013	For organizing your inserts and adapters for safe keeping.

Part No.	Description
<b>Heat Shield</b>	
 203006	For fusing two materials with different melt rates. Shields the faster melt rate materials from over melting.

Part No.	Description
<b>Shipping Container</b>	
 817902	Container for Rolling No.28.
T5009101	Container for TracStar No.28.

### SPARE HEATER LEGEND

- S Heater for No.28, PitBull & TracStar No.28
- A Heater for Automated TracStar No.28



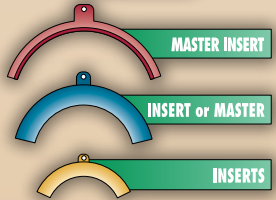
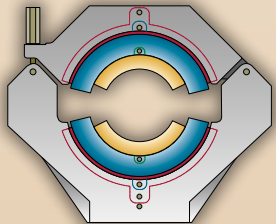
## Butt Inserts



**Set = 8 Inserts**

All cast inserts are surface hardened for longer life and are serrated for maximum grip on the pipe. Inserts are made for one size pipe only and are required for pipe sizes less than 8" DIPS.

Not all inserts fit directly in the jaws. Some inserts nest inside other inserts, called master inserts. See graphic below for example.



**NOTE:** Other sizes of inserts are available upon request. Contact your McElroy representative about inserts to fit your needs. **For JIS sizes see page 96.**

### All inserts below fit in 8" DIPS Jaws

Inserts	Pipe OD	Set No.
8" DIPS JAW	9.05 (230mm)	N/R
225mm	8.86 (225mm)	851201
8" IPS <i>Master</i>	8.63 (219mm)	Inc. w/pkg

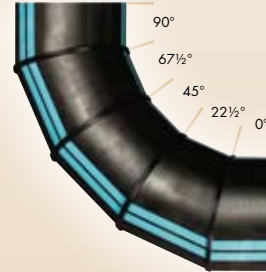
### All inserts below require 8" IPS Master inserts

200mm	7.87 (200mm)	801511
7.125"/180mm OD	7.13 (180mm)	801513
6" DIPS	6.90 (175mm)	801525
6" IPS <i>Master</i>	6.63 (168mm)	801510
160mm	6.30 (160mm)	807813

### All inserts below require 6" & 8" IPS Master inserts

5" IPS	5.56 (141mm)	809409
140mm	5.51 (140mm)	809428
5.375" OD	5.38 (137mm)	809411
5.25" OD	5.25 (133mm)	809410
125mm	4.92 (125mm)	809413
4" DIPS	4.80 (122mm)	809315
4" IPS	4.50 (114mm)	809408
110mm	4.33 (110mm)	809305
3" DIPS	3.96 (101mm)	809313
90mm	3.54 (90mm)	809309
3" IPS	3.50 (89mm)	809304
75mm	2.95 (75mm)	809211
63mm	2.48 (63mm)	809209
2" IPS	2.38 (60mm)	809204

## 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.

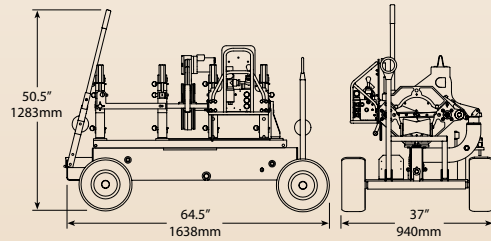
### All inserts below fit in 8" DIPS Jaws

Inserts	Pipe OD	Set No.
8" DIPS JAW	9.05 (230mm)	N/R
8" IPS <i>Master</i>	8.63 (219mm)	Inc. w/pkg

### All inserts below require 8" IPS Master inserts

180mm x 11 1/4°	7.09 (180mm)	8078111
6" DIPS x 11 1/4°	6.90 (175mm)	8078108
6" IPS x 11 1/4°	6.63 (168mm)	807810
160mm x 11 1/4°	6.30 (160mm)	807817
5" IPS x 11 1/4°	5.56 (141mm)	807809
140mm x 11 1/4°	5.51 (140mm)	8078135
125mm x 11 1/4°	4.92 (125mm)	807896
4" DIPS x 11 1/4°	4.80 (122mm)	807899
4" IPS x 11 1/4°	4.50 (114mm)	807808
110mm x 11 1/4°	4.33 (110mm)	807893
90mm x 11 1/4°	3.54 (90mm)	811301

### Rolling No.28



#### CAPACITY

Fuses Pipe Sizes: ..... 2"IPS – 8"DIPS (63mm – 225mm)

#### WEIGHT

Machine: ..... 575 lbs (260.8Kg)  
 4 Jaw Carriage Configuration: ..... 219 lbs (99.3Kg)  
 4 Jaw CU Carriage Configuration: ..... 247 lbs (112Kg)  
 3 Jaw Carriage Configuration: ..... 140 lbs (63.5Kg)  
 3 Jaw CU Carriage Configuration: ..... 168 lbs (76.2Kg)  
 Facer: ..... 37 lbs (16.8Kg)  
 Heater: ..... 21 lbs (9.5Kg)

#### HYDRAULICS

System Pressure: ..... 1200 PSI (82.737 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 5 Gallons (18.92 Liters)

#### POWER

Butt Fusion Heater: ..... 1750 Watt  
 Sidewall Heater: ..... 2270 Watt  
 Facer Power: ..... Hydraulic  
 Electric Motor: ..... 1.5 HP

#### CHASSIS

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

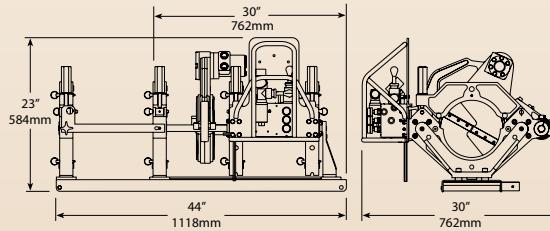
#### MOBILITY

Tires: ..... High flotation inflatable tires  
 Transportation: ..... Pulled via towing ring

#### WARRANTY

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

### PitBull® No.28



#### CAPACITY

Fuses Pipe Sizes: ..... 2"IPS – 8"DIPS (63mm – 225mm)

#### WEIGHT

4 Jaw Carriage Configuration: ..... 219 lbs (99.3Kg)  
 4 Jaw CU Carriage Configuration: ..... 247 lbs (112Kg)  
 3 Jaw Carriage Configuration: ..... 140 lbs (63.5Kg)  
 3 Jaw CU Carriage Configuration: ..... 168 lbs (76.2Kg)  
 Facer: ..... 37 lbs (16.8Kg)  
 Heater: ..... 21 lbs (9.5Kg)

#### POWER

Butt Fusion Heater: ..... 1750 Watt  
 Sidewall Heater: ..... 2270 Watt  
 Facer Power: ..... Hydraulic

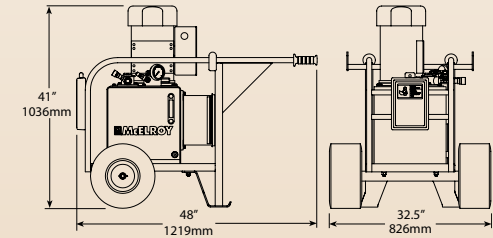
#### CHASSIS

Frame: ..... Welded steel construction

#### WARRANTY

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

### HPU (Hydraulic Power Unit)



#### WEIGHT

Machine: ..... 390 lbs (149Kg)

#### HYDRAULICS

System Pressure: ..... 1500 PSI Max.  
 Hydraulic Reservoir Capacity: ..... 10 Gallons (37 Liters)  
 Pump Flow Rate 60 Hz: ..... 6.1 gpm (23.1 Lpm)  
 Pump Flow Rate 50 Hz: ..... 5.0 gpm (18.9 Lpm)  
 Fluid: ..... Exxon Univis N46 or equivalent  
 Filtration: ..... 10 micron absolute

#### POWER

Power Requirement: ..... 5.2KVA/4.5Watt

#### MOTOR

Electric: ..... 5 HP

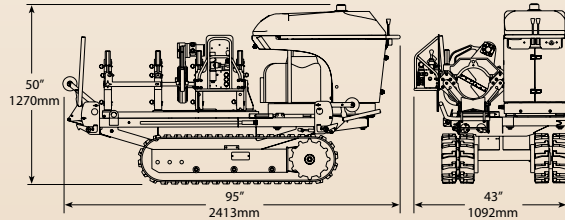
#### MOBILITY

Tires: ..... High flotation inflatable tires  
 Transportation: ..... Two wheel cart

#### WARRANTY

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

## TracStar® No.28



### CAPACITY

Fuses Pipe Sizes: ..... 2"IPS – 8"DIPS (63mm – 225mm)

### WEIGHT

Machine: ..... 1320 lbs (598.7Kg)  
 4 Jaw Carriage Configuration: ..... 219 lbs (99.3Kg)  
 4 Jaw CU Carriage Configuration: ..... 247 lbs (112Kg)  
 3 Jaw Carriage Configuration: ..... 140 lbs (63.5Kg)  
 3 Jaw CU Carriage Configuration: ..... 168 lbs (76.2Kg)  
 Facer: ..... 37 lbs (16.8Kg)  
 Heater: ..... 21 lbs (9.5Kg)

### HYDRAULICS

System Pressure: ..... 1800 PSI (124 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 8 Gallons (30.28 Liters)

### ENGINE

Engine Type: ..... 11 HP air cooled  
 Fuel Type: ..... Gasoline  
 Fuel Tank Capacity: ..... 5 Gallons (18.92 Liters)  
 Operational Tank Capacity: ..... 8 Hours  
 Starting System: ..... Electric & recoil

### ELECTRICAL

Input: ..... None, self-contained  
 AC Output: ..... 2 receptacles 120V & 240V, 60Hz, 15 Amp

### CHASSIS

Frame: ..... Welded steel construction

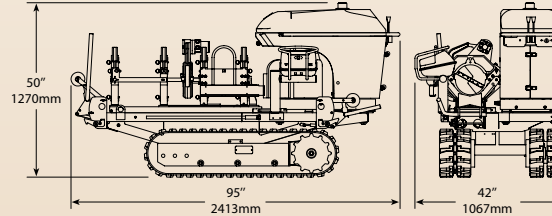
### MOBILITY

Tracked: ..... Rubber crawler tracks  
 Transportation: ..... Self propelled, fits in long bed truck  
 Vehicle speed: ..... 1.0 Mph max.  
 Lifting ..... Lift points & lifting assembly

### WARRANTY

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

## Automated TracStar® No.28



### CAPACITY

Fuses Pipe Sizes: ..... 2"IPS – 8"DIPS (63mm – 225mm)

### WEIGHT

Machine: ..... 1320 lbs (598.7Kg)  
 4 Jaw Carriage Configuration: ..... 219 lbs (99.3Kg)  
 4 Jaw CU Carriage Configuration: ..... 247 lbs (112Kg)  
 3 Jaw Carriage Configuration: ..... 140 lbs (63.5Kg)  
 3 Jaw CU Carriage Configuration: ..... 168 lbs (76.2Kg)  
 Facer: ..... 37 lbs (16.8Kg)  
 Heater: ..... 21 lbs (9.5Kg)

### HYDRAULICS

System Pressure: ..... 1800 PSI (124 BAR) Max.  
 Hydraulic Reservoir Capacity: ..... 8 Gallons (30.28 Liters)

### ENGINE

Engine Type: ..... 11 HP air cooled  
 Fuel Type: ..... Gasoline  
 Fuel Tank Capacity: ..... 5 Gallons (18.92 Liters)  
 Operational Tank Capacity: ..... 8 Hours  
 Starting System: ..... Electric & recoil

### ELECTRICAL

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

### CHASSIS

Frame: ..... Welded steel construction

### MOBILITY

Tracked: ..... Rubber crawler tracks  
 Transportation: ..... Self propelled, fits in long bed truck  
 Vehicle speed: ..... 1.0 Mph max.  
 Lifting ..... Lift points & lifting assembly

### WARRANTY

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