

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



TracStar 500 Series II

McElroy's **TracStar 500** was the first fusion machine in the world to be mounted on a track system making it mobile in almost any terrain. Considered the Flagship of McElroy machines, its success spawned the entire TracStar line of fusion equipment. It will butt fuse pipe sizes from **6" IPS to 20" OD (180mm to 500mm)**. It incorporates the interchangeable 500 carriage with McElroy's patented Centerline Guidance System. Two fixed and movable clamping jaws result in precision pipe alignment for higher quality fusion joints. The **PitBull 500** is used for special applications where the tracked vehicle is not

needed. These machines can fabricate segmented ells with optional mitered inserts and are DataLogger® compatible.

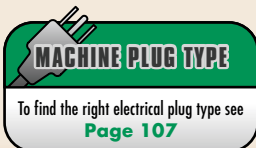
The **Automated TracStar 500** is also available with automated control and monitoring over the heat, soak, fuse, and cool cycles. This automated system guides the operator through a step by step procedure for fusing pipe. It has a built-in data logging feature that keeps a record of each fusion joint, which allows you to verify joint integrity.

TracStar® 500

- Self-contained, self-propelled, all-terrain
- Powered by a 23 HP 3 cylinder liquid cooled diesel engine
- Carriage can be easily removed for in-ditch use
- On-board generator for powering heater
- Hydraulic pipe lifts aid in loading and unloading pipe
- Fits in a standard long box truck bed for easy transport
- DataLogger® compatible
- Also available as an Automated fusion machine
- Dual Speed Tracks

PitBull® 500

- Compact fusion for special applications
- Hydraulic Power Unit (HPU) sold separately
- DataLogger® compatible



Visit the Fusion Experts at www.mcelroy.com

Machine Type	Model No.	Cylinder Force	Input Voltage Requirements	Minimum Power Requirements *	Plug Type **
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TracStar® 500 Includes: Fusion machine, facer, 12" IPS to 20" OD heater, insulated heater stand, and lifting assembly. ***



Standard 20" Carriage	AT5000106	Medium	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A
Standard 500mm Carriage	AT5000108	Medium	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A
Automated 20" Carriage	AT5036104	Medium	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A
Automated 500mm Carriage	AT5036103	Medium	N/A, On-Board Generator	N/A, Self-Contained Diesel	N/A

PitBull® 500 Includes: Fusion carriage, facer, 12" IPS to 20" OD heater, and insulated heater stand. HPU which includes extension hoses and lifting assembly sold separately. ***



In-ditch 20" Carriage	AT5034001	Medium	240V, 50Hz, 1Ph	4KW	C
In-ditch 500mm Carriage	AT5034002	Medium	240V, 50Hz, 1Ph	4KW	C
HPU	T1810901	N/A	240V, 60Hz, 1Ph	HPU 4.9KVA/4.8KW, PitBull + HPU 8.9KVA/8.8KW	G
HPU	T1810902	N/A	220V - 240V, 50/60Hz, 3Ph	HPU 5.2KVA/4.5KW, PitBull + HPU 9.2KVA/8.5KW	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.

*** 6" IPS - 12" DIPS heater sold separately.



150%
Production
Increase!

McElroy PolyHorse™

The PolyHorse is a new pipe handling system that consists of a series of adjustable racks to store and help install the pipe on the jobsite. For use with PE pipe sizes 3" through 20", the PolyHorse can reduce manpower expense, provide an efficient, less hazardous environment for handling pipe bundles, and enhance productivity by 150%. **See Page 84**

Part No.	Description
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Spare Facer Blade Kit - Includes: six blades, screws and wrench



T5005006	Standard blades.
T5005006C	Extended life blades.

Spare Heater Plate Kit - Includes: attaching screws and wrench



Plates have an anti-stick coating & are required for butt fusion.	
A1242108	Set of two 6" IPS - 12" DIPS plates.
AT5008007	Set of two 12" IPS - 20" OD plates.

Pipe Support Stand - See page 82 for more information



1223201	Adjustable pipe stand to properly support, position and align pipe to be fused.
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PolyHorse™ - To Learn More See Page 84



1875501	Pipe handling system that consists of a series of adjustable racks to store and help install the pipe on the job site.
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DataLogger® - To Learn More See Page 78



DL6303	Used to record and document fusion process parameters.
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Stub End Holder - See page 111 for stub end size capability



Holds stub end for butt fusion.	
1808507	Aluminum stub end holder.
1808504	Steel stub end holder.

Pyrometer Kit



A218803	Measures surface temperature of heater.
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Part No.	Description
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6" IPS - 12" DIPS Heater - 220-240V, 50/60Hz, 1Ph



S	T5008402	Microprocessor controlled with dial thermometer to monitor temperature. Includes heater plates insulated heater stand and stripper bars.
A	T5008401	
P	T5008403	

Spare 12" IPS - 20" OD Heater - 220-240V, 50/60Hz, 1Ph



S	T5008008	Microprocessor controlled with dial thermometer to monitor temperature. Includes heater plates insulated heater stand and stripper bars.
A	T5008001	
P	T5008009	

In-Ditch Facer Stand



T5004701	Facer stand provides a convenient place to protect and store your facer out of the dirt and mud when fusing in-ditch.
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Shipping Container



T5009101	Shipping container for TracStar 500.
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TracStar In-Ditch Extension Kit



T5002002	25' hydraulic extension hoses and facer stand.
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Automated In-Ditch Extension Kit



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.
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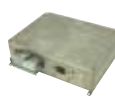
Spare Automated Pendant



T5007109	Spare user interface for Automated TracStars No.28, 250, No.412, No.618 and 500.
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Part No.	Description
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Spare Automated Control Box



T5001808	Spare control box for quick replacement. For use with Automated TracStars No.28, 250, No.412, No.618 and 500.
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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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SPARE HEATER LEGEND

- S Heater for Standard TracStar 500
- A Heater for Automated TracStar 500
- P Heater for PitBull 500

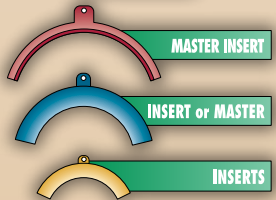
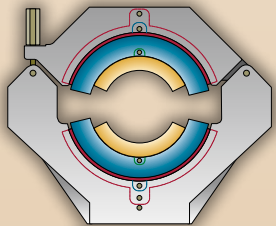
Butt Inserts



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 20" OD.

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 20" OD jaws

Inserts	Pipe OD	Set No.
20" OD Jaw	20.00 (508mm)	N/R
500mm	19.69 (500mm)	T5029803
18" DIPS	19.50 (495mm)	T5029706
18"/20" OD <i>Master</i>	18.00 (457mm)	T5029703

All inserts below fit in 500mm jaws

Inserts	Pipe OD	Set No.
500mm OD Jaw	19.69 (500mm)	N/R
18" DIPS	19.50 (495mm)	T5004303
18"/500mm OD <i>Master</i>	18.00 (457mm)	T5004206

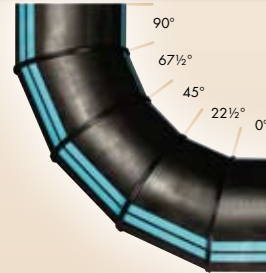
All inserts below require 18" OD Master Inserts

450mm	17.72 (450mm)	2418201
16" DIPS	17.40 (442mm)	2412117
16" OD	16.00 (406mm)	2412110
400mm	15.75 (400mm)	2412111
14" DIPS	15.30 (389mm)	2412215
14" OD	14.00 (355mm)	2412206
340mm	13.39 (340mm)	2411811
12" DIPS	13.20 (335mm)	2411826
12" IPS <i>Master</i>	12.75 (324mm)	2411810

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

315mm	12.40 (315mm)	1211202
10" DIPS	11.10 (282mm)	1207221
280mm	11.02 (280mm)	1207205
10" IPS	10.75 (273mm)	1207204
250mm	9.84 (250mm)	1213503
8" DIPS	9.05 (230mm)	1207107
225mm	8.86 (225mm)	1207010
8" IPS	8.63 (219mm)	1207104
200mm	7.87 (200mm)	1207009
7-1/8"/180mm OD	7.13 (180mm)	1207008
6" DIPS	6.90 (175mm)	1207020
6" IPS <i>Master</i>	6.63 (168mm)	1207007
160mm	6.30 (160mm)	1207011

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 20" OD jaws

Inserts	Pipe OD	Set No.
450mm x 11 1/4°	17.72 (450mm)	T5031103
18" OD x 11 1/4°	18.00 (457mm)	T5030803
18"/20" OD <i>Master</i>	18.00 (457mm)	T5029703

All inserts below fit in 500mm jaws

18" OD x 11 1/4°	18.00 (457mm)	T5004403
18"/500mm OD <i>Master</i>	18.00 (457mm)	T5004206

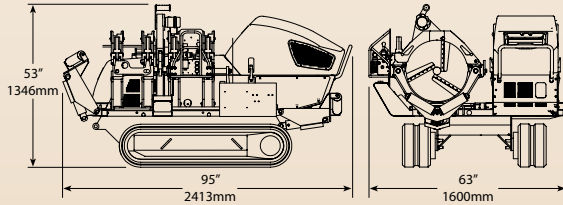
All inserts below require 18" OD Master Inserts

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" IPS <i>Master</i>	12.75 (324mm)	2411810

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

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
6" DIPS x 11 1/4°	6.90 (175mm)	1214275
6" IPS x 11 1/4°	6.63 (168mm)	1214228

TracStar® 500/Automated



CAPACITY

Fuses Pipe Sizes: 6" IPS – 20" OD pipe (180mm – 500mm)

WEIGHT

Machine: 2700 lbs (1225Kg)

4 Jaw Carriage Configuration: 390 lbs (176.9Kg)

3 Jaw Carriage Configuration: 289 lbs (131.1Kg)

Facer: 84 lbs (38.1Kg)

6" IPS - 12" DIPS Heater: 28 lbs (13Kg)

12" IPS - 20" OD Heater: 39 lbs (17.7Kg)

HYDRAULICS

System Pressure: 2300 PSI (157.6 BAR) Max.

Hydraulic Reservoir Capacity: 12 Gallons (45.4 Liters)

ENGINE

Engine Type: 23 HP, 905cc, 3-cylinder liquid cooled

Fuel Type: Diesel

Fuel Tank Capacity: 11 Gallons (41.6 Liters)

Operational Tank Capacity: 8 Hours

Starting System: Electric

ELECTRICAL

Input: None, self-contained

POWER

Heater Power (12" IPS - 20" OD): 4000 Watt

Facer Power: Hydraulic

CHASSIS

Frame: Welded steel construction

MOBILITY

Tracked: Rubber crawler tracks

Transportation: Self Propelled

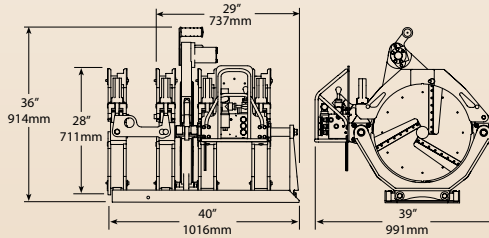
Vehicle speed: Low 1.8mph High 2.1mph

Lifting Lift points & lifting assembly

WARRANTY

Term: 3 Years see page 7 for details

PitBull® 500



CAPACITY

Fuses Pipe Sizes: 6" IPS – 20" OD pipe (180mm – 500mm)

WEIGHT

4 Jaw Carriage Configuration: 390 lbs (176.9Kg)

3 Jaw Carriage Configuration: 289 lbs (131.1Kg)

Facer: 84 lbs (38.1Kg)

6" IPS - 12" DIPS Heater: 28 lbs (13Kg)

12" IPS - 20" OD Heater: 39 lbs (17.7Kg)

POWER

Heater Power (12" IPS - 20" OD Heater): 4000 Watt

Facer Power: Hydraulic

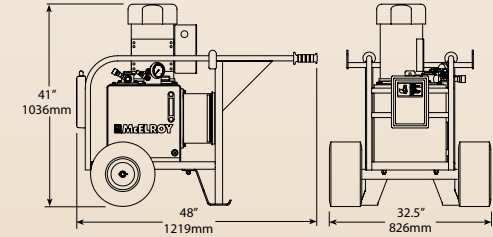
CHASSIS

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 (103.4 BAR) 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 Unisvis 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

