

# **THERMAL ARC®**

**DC Inverter Arc Welders**

***Small Package . . .  
Superior Performance***

*the little guys  
that can run with  
the big boys!*



- **Superior performance for TIG/Stick Applications**
  - the popular Lincoln® 5P - other Cellulose and Rutile Electrodes
  - Stainless Steel and Low Hydrogen Electrodes - Lift TIG GTAW
  - High frequency TIG (GTS models only)
- **Operation on 115/208/220/230 VAC**
- **Weights less than 19 lbs/8.5 kg**
- **Up to 190 amps of output**

**S  
Models**  
(Stick/Lift TIG)

- **130S**
- **150S**
- **190S**

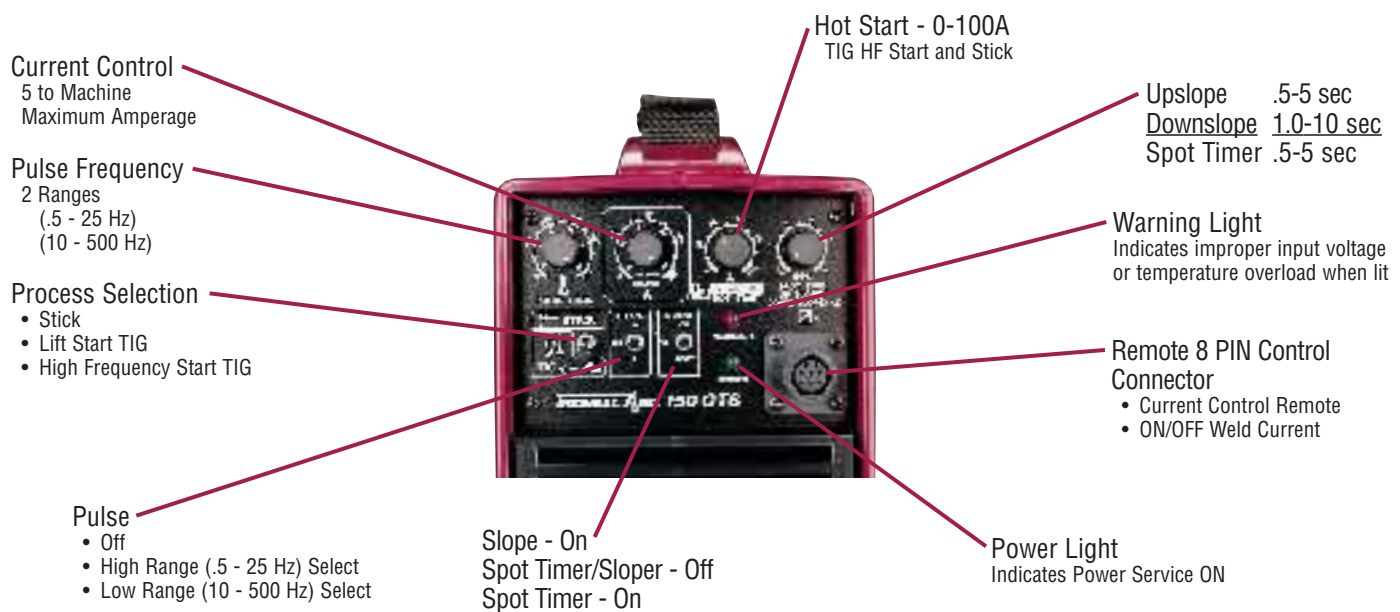
**GTS  
Models**  
(Stick/Lift TIG/HF TIG)

- **130GTS**
- **150GTS**
- **190GTS**



**THERMAL DYNAMICS®**

*the leader in technology and service!*



## S Series

The S Series is available in models with maximum current outputs of 130, 150 and 190 amps. These machines are excellent for Stick welding applications up to their rated output. They are provided with an adjustable hot start and automatically adjusted arc control for smooth and easy operation with all electrodes.

The S Series also provides high quality TIG results when operating in the Lift TIG mode. No high frequency is used. Simply touch the electrode to the work and lift, and the TIG arc is initiated with no high frequency and no damage to the tungsten electrode.

It can be used for industrial/maintenance applications on 208/230 VAC or home/utility applications on 115 VAC. All machines are provided with Smart Link™ capability to automatically link to either 115 or 208/230 VAC.

## GTS Series

The GTS Series offers all of the same capabilities as the S Series as well as many TIG controls to master those applications where tight control and high quality are required. The standard controls provided on all GTS machines are a gas valve, upslope and downslope, spot timer, pulser, and high frequency starting. A fixed preflow is provided and postflow is automatically adjusted by the current level.



## Applications

Both S and GTS Series are excellent for construction, maintenance, HVAC, fabricators, manufacturing, contractors, utility, farm and home. Please refer to the specifications for recommended operation of the machines.

# ORDERING INFORMATION



## MACHINES

MACHINE	CAT. NO.	INPUT VOLTAGE	SMART LINK	LIFT TIG	HF TIG START	GAS VALVE	SLOPER	PULSER	PRE-SET ARC CONTROL	HOT START TIG	HOT START STICK	PRE/POST FLOW	SPOT TIMER	3/8" BSP FITTING
130S	10-3000	115/230	X	X					X		X			
130GTS	10-3001	115/230	X	X	X	X	X	X	X	X	X	X	X	
150S	10-3002	115/230	X	X					X		X			
150GTS	10-3003	115/230	X	X	X	X	X	X	X	X	X	X	X	
190S	10-3004	115/230	X	X					X		X			
190GTS	10-3005	115/230	X	X	X	X	X	X	X	X	X	X	X	
<b>Recommended for European Operation</b>														
130GTS	10-3030	115/220	X	X	X	X	X	X	X	X	X	X	X	X
150GTS	10-3031	115/220	X	X	X	X	X	X	X	X	X	X	X	X
190GTS	10-3032	115/220	X	X	X	X	X	X	X	X	X	X	X	X

## ACCESSORIES

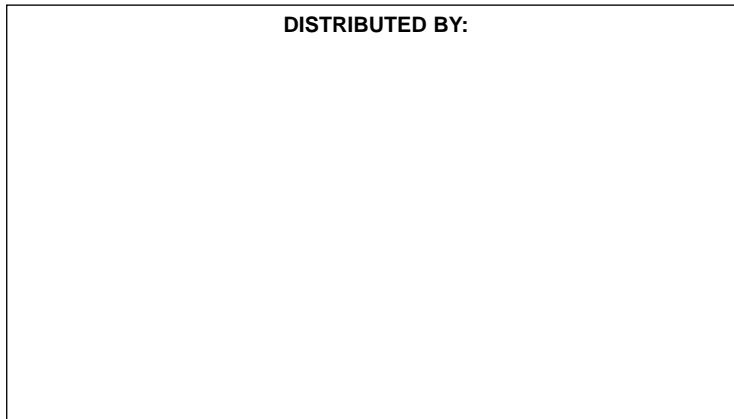
REMOTE CONTROL	CAT. NO.	ARC ON/OFF	CURRENT CONTROL	LENGTH	CONNECTORS	APPLICABLE TORCH HANDLE
Torch Switch	10-4006	X		15'/4.6m	8 Pin (Male)	N/A
Torch Switch	10-4007	X		25'/6.4m	8 Pin (Male)	N/A
Torch Switch	10-4008	X	X	15'/4.6m	8 Pin (Male)	5/8 -7/8"/16mm-22mm
Torch Switch	10-4009	X	X	15'/4.6m	8 Pin (Male)	7/8"-1-1/8"/22mm-29mm
Torch Switch	10-4010	X	X	15'/4.6m	8 Pin (Male)	1-1/8"-1-3/8"/29mm-35mm
Torch Switch	10-4011	X	X	25'/6.4m	8 Pin (Male)	5/8 -7/8"/16mm-22mm
Torch Switch	10-4012	X	X	25'/6.4m	8 Pin (Male)	7/8"-1-1/8"/22mm-29mm
Torch Switch	10-4013	X	X	25'/6.4m	8 Pin (Male)	1-1/8"-1-3/8"/29mm-35mm
Hand Pendant	10-4014	X	X	25'/6.4m	8 Pin (Male)	N/A
Foot Control	10-4015	X	X	15'/4.6m	8 Pin (Male)	N/A
Foot Control	10-4016	X	X	25'/6.4m	8 Pin (Male)	N/A
<b>Extension Cables for Remote Controls</b>						
Ext. Cable	10-4017	X	X	3'/90cm	8 Pin (Male) & 8 Pin (Female)	N/A
Ext. Cable	10-4018	X	X	15'/4.6m	8 Pin (Male) & 8 Pin (Female)	N/A
Ext. Cable	10-4019	X	X	25'/7.6m	8 Pin (Male) & 8 Pin (Female)	N/A
Ext. Cable	10-4020	X	X	50'/15.2m	8 Pin (Male) & 8 Pin (Female)	N/A
Ext. Cable	10-4021	X	X	75'/22.8m	8 Pin (Male) & 8 Pin (Female)	N/A
Ext. Cable	10-4022	X	X	100'/30.4m	8 Pin (Male) & 8 Pin (Female)	N/A
<b>Miscellaneous Accessories (Kits are provided assembled ready to install)</b>						
Item	CAT NO.	DESCRIPTION				
TIG Kit-S Series	10-4023	Includes: Arcair BG-17V-12 Tig Torch w/accessory kit, 10 ft. gas hose, Victor HRF1425-580 regulator, Ground Clamp w/12 ft. cable and Dinse Connector attached				
TIG Kit-GTS Series	10-4024	Includes: Arcair BG-17-12 Tig Torch w/accessory kit, 10 ft. gas hose Victor HRF1425-580 regulator, Ground Clamp w/12 ft. cable and Dinse Connector attached				
STICK Kit	10-4025	Electrode Holder w/15 ft. cable and Dinse Connector attached Ground Clamp w/12 ft. cable and Dinse Connector attached				
Dinse Connector	10-1068	25mm - Male for additional torches/electrode holders				
Adaptor	10-4003	8 Pin (Male) to 14 Pin (Female)				



# MACHINE SPECIFICATIONS

PROCESS	130S/130GTS					150S/150GTS					190S/190GTS				
	TIG	STICK	TIG	STICK	NO LOAD	TIG	STICK	TIG	STICK	NO LOAD	TIG	STICK	TIG	STICK	NO LOAD
	(208/230V)	(115V)	(208/230V)	(115V)		(208/230V)	(115V)	(208/230V)	(115V)		(208/230V)	(115V)	(208/230V)	(115V)	
Output Current	130A	100A	85A	85A		150A	120A	85A	85A		190A	130A	95A	95A	
Output Voltage	15V	24V	13V	23V		16V	25V	13V	23V		17V	25V	14V	25V	
Duty Cycle	40%	25%	40%	25%		40%	25%	40%	25%		25%	25%	40%	25%	
<b>Recommended Max Electrode Size</b>															
<b>Cellulosed Base/Rutile</b>															
115V			3/32"/2.4mm					3/32"/2.4mm					1/8"/3.2mm		
208/230V	1/8"/3.2mm					1/8"/3.2mm					5/32"/4.0mm				
<b>Low Hydrogen</b>															
115V			3/32"/2.4mm					3/32"/2.4mm					1/8"/3.2mm		
208/230V	1/8"/3.2mm					1/8"/3.2mm					5/32"/4.0mm				
<b>Stainless Steel</b>															
115V			1/8"/3.2mm					1/8"/3.2mm					1/8"/3.2mm		
208/230V	1/8"/3.2mm					5/32"/4.0mm					5/32"/4.0mm				
<b>Amperage Draw (for input voltage)</b>															
115V			18A	32A	4.3A			18A	32A	4.3A			21.5A	37A	4.3A
208V	17.5A	21.5A			2.4A	21.5A	27A			2.4A	29A	30A			2.4A
230V	16A	19.5A			2.2A	19.5A	24A			2.2A	26A	27A			2.2A
KVA	3.6	4.5	2.1	3.6	0.5	4.5	5.6	2.1	3.6	0.5	6	6.3	2.5	4.2	0.5
KW	2.3	2.8	1.3	2.3	0.3	2.8	3.5	1.3	2.3	0.3	3.8	4.0	1.6	2.7	0.3
Weight S Series	17.6 lbs./8 kg.					17.6 lbs./8 kg					17.6 lbs./8 kg.				
Weight GTS Series	18.7 lbs./8.5 kg.					18.7 lbs./8.5 kg					18.7 lbs./8.5 kg				
Size: Width	5.2"/130mm					5.2"/130mm					5.2"/130mm				
Height	9.5"/240mm					9.5"/240mm					9.5"/240mm				
Depth	11.9"/300mm					11.9"/300mm					11.9"/300mm				

DISTRIBUTED BY:



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