

TREK[™] 180





Battery-Powered MIG Welding Package

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#500539

Includes:

- Pouch for storage of MIG gun and work lead during transportation
- Comfortable 10-ft, H100L4-10 MIG torch
- 10-ft. work lead with clamp
- 2 premium high-performance sealed lead-acid batteries
- Spare .030 in. (0.8 mm) contact tips
- Sample spool of .030 in. (0.8 mm) self-shielded flux-cored welding wire
- Weld set-up and information chart
- Removable power/recharging cord with plug
- Owner's Manual with parts lists, installation, operation, maintenance and MIG welding guidelines

The TREK 180 battery-powered, inverter-based wire welder is the first professional system on the market for MIG welding "off the power grid." No matter where your hobby or job takes you, the TREK delivers heavy-duty weld power to fabricate or repair 24 ga. up to 5/16 in. mild steel in a single pass. Powered by two internal, premium high-performance, sealed lead-acid batteries, the high-purity energy storage technology enables the TREK to be charged complete in about 90 minutes and quickly recharged in about 20 minutes. The unit delivers approx. 100 inches of weld bead when fully charged (using .030 diameter flux-cored wire on 1/8 in. mild steel.)

The integrated charging system is powered by a standard 115 volt household receptacle. The machine can operate while plugged in or completely cordless. The TREK delivers 180 amps (approx. 12% duty cycle) on 115 volt standard power... a weld output which, until TREK, has been limited to 230 volt welders.

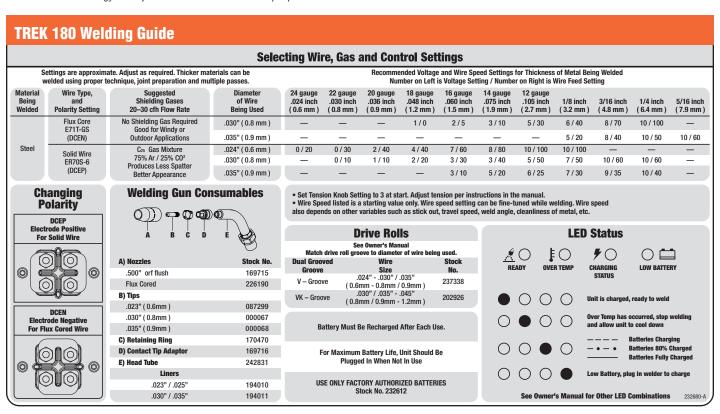
The TREK 180 can be charged inside a vehicle using an automotive power inverter (400 continuous watt minimum/charging times increase slightly.) The weld output is regulated to provide consistent welding voltage regardless of battery level. The unit is capable of using both self-shielded flux-cored and solid gas-shielded wires from .024 to .035 diameter. A removable storage bag provides cable management of standard MIG gun, work cable, clamp and removable power cord. Impact-resistant case provides strength and durability, protecting the internal components and welding wire.

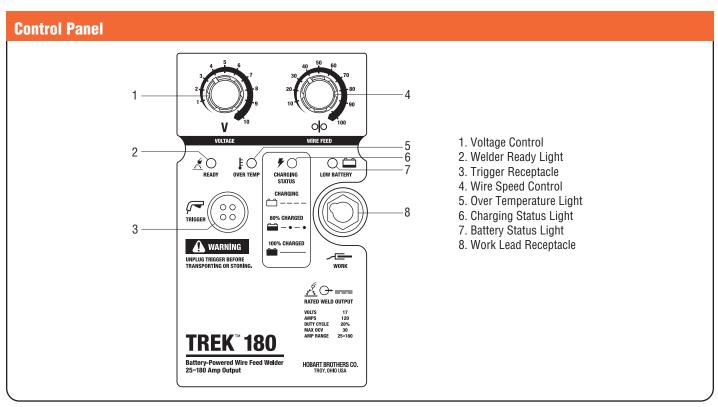
Features	Benefits	
Excellent arc performance	Inverter arc control technology for a smooth and stable arc.	
Proven built-in wire feeder with quick-release tension lever	Provides positive feed with adjustable tension. Easy access for threading wire.	
Low battery shutdown	Disables the welder when the battery runs low to protect the life of the battery.	
"AutoPower™" technology	Scans the available input charging power to compensate line draw for low capacity devices such as small automotive inverters.	
Infinite voltage and wire control	Provides a broader operating window for each wire with quick and easy adjustment for different materials and thicknesses.	
Convenient polarity changeover	Quick and easy polarity change access for solid or tubular wire.	
Quick-change, dual-groove drive roll	Makes it easy to change from one wire size to another. One knurled groove and one smooth groove for $.030035$ in. $(0.8-0.9 \text{ mm})$.	
LED indicators	Diagnostic lights for quick information on the temperature, charging and battery status.	
High-performance sealed lead batteries	Thin plate pure lead (TPPL) technology allows for fast recharge (only 20 minutes).	
Short circuit protection	Protects unit against current overload.	
Self-resetting thermal overload protection	Protects power circuitry against thermal overload to ensure reliability.	
Self-resetting motor protection	Protects wire feed system from overload, no fuses to change or circuit breaker buttons to press.	
Hobart's 5/3/1 Industrial Warranty	Five-year warranty on transformers, stabilizers and generators; three years on electronics (drive motors, rectifiers); and one year on guns (MIG and plasma torches).	

Specifications (SUBJECT TO CHANGE WITHOUT NOTICE.) Current Max. Open Wire Feed Amps Input at Rated Load, 60 Hz Net Shipping **Rated Output** Range Circuit Voltage **Speed Range** 115 V **KVA** KW **Dimensions** Weight Weight 12* H: 13-5/16 in. (338 mm) 120 A, 17 VDC at 25-180 A 30 V 40-400 IPM 1.38 0.75 51.87 lb. 61 lb. 20% Duty Cycle W: 17 in. (433 mm) (23.5 kg) (27.7 kg) D: 7-7/8 in. (200 mm)

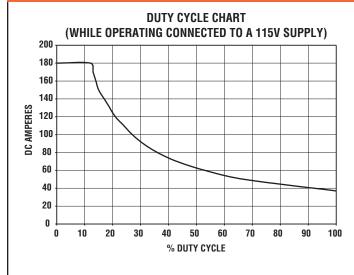
Certified by Canadian Standards Association to both Canadian and U.S. Standards.

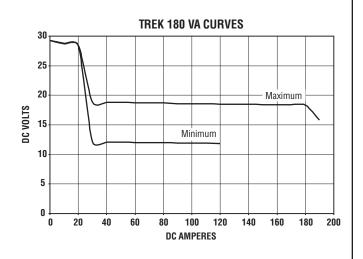
^{*}Auto Power™ technology will adjust as low as 3.5 A based on input power available.





Performance Data





WELD TIME WHILE OPERATING FROM BATTERIES ONLY 100 20 20 40 60 80 100 120 140 160 180 200 DC AMPERES

Accessories

H100L4-10 Replacement MIG Torch #243864

For .030 - .035 in. (0.8 - 0.9 mm) wire. Includes 10 ft. (3 m) cable.



Drive Rolls

Dual-Groove, V-Smooth #237338 For .023/.025 in. (0.6 mm) and .030 – .035 in. (0.8 – 0.9 mm) wire.

Dual-Groove, V-Knurled #202926

For .030 - .035 in. (0.8 - 0.9 mm) and .045 in. (1.2 mm) flux-cored wire.



Contact Tips

(See chart on back page.)



MIG Nozzle

(See chart on back page.) Protects tip adapter and focuses gas coverage.



Gasless Flux-cored Nozzle

(See chart on back page.) For use with self-shielding flux-cored wires. Improves visibility, eases access in

tight corners, protects tip adapter/gas diffuser from spatter and from shorting to the work piece. For use with H9, H10, M10, and M15 torches.



Tip Adapter

(See chart on back page.)

Replacement Liners

(See chart on back page.)

Consumables		
Item	Hobart Package Part #	Miller Package Part #
Contact Tips		
.023/.025 in. (0.6 mm)	#770174 (5 per package)	#087 299 (10 per package)
.030 in. (0.8 mm)	#770177 (5 per package)	#000 067 (10 per package)
.035 in. (0.9 mm)	#770180 (5 per package)	#000 068 (10 per package)
MIG Nozzle (Standard)	#770404	#169 715
Gasless Flux Cored Nozzle	#770487	#226 190
Tip Adapter	#770402	#169 716
Replacement Liners		
.023/.025 in. (0.6 mm)	#196139	#194 010
.030/.035 in. (0.8/0.9 mm)	#196139	#194 011
.035/.045 in. (0.9/1.2 mm)	#196140	#194 012





