



LIGHTNING ROD™

by **GOUGE TECH®**

The Revolutionary Hollow Core Gouging Electrode



Faster and Smoother
Than Solid Copper Rods

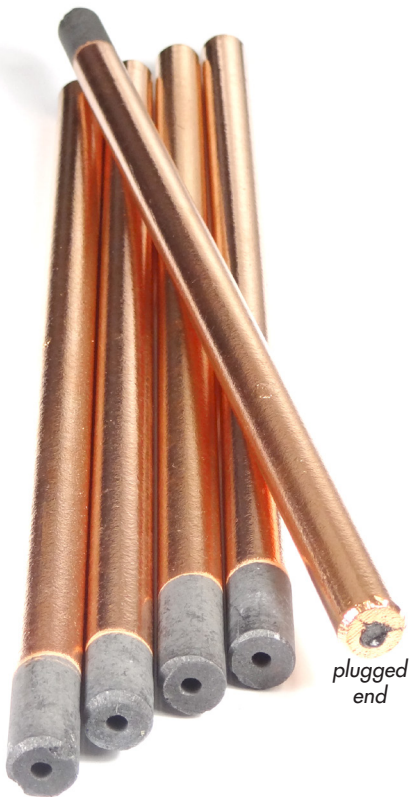
Reduced Smoke
and Quieter Operation

Jointed or
Non-Jointed

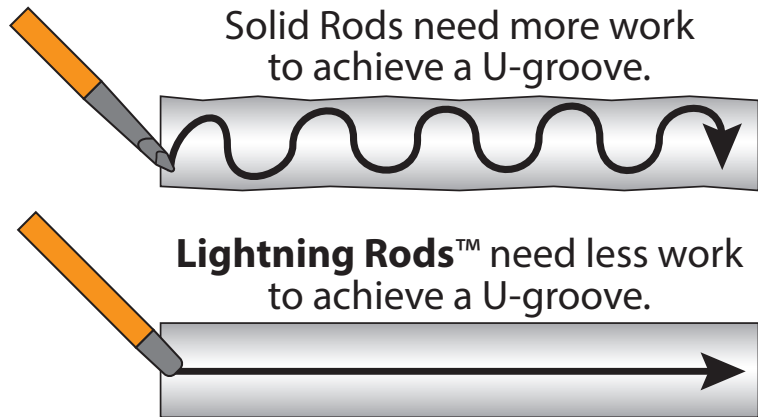
Gouge Tech is a **FLAME TECH** brand.

FASTER & MORE EFFICIENT

Compared to solid rods, Lightning Rods™ can carry a 15–20% increased current due to the **thicker copper coating**, **high-density carbon** and the **hollow core**. This has shown to provide smooth arc stability on all metals and allows 40% faster removal than solid rods. The hollow core design prevents the formation of a fragile pointed tip. Solid rods form this pointed tip, which falls off into the gouge and requires rework to clean up. Lightning Rods create a smooth U-groove instead of a V-groove, so that side to side motions are not necessary. With Lightning Rods, there is no carbon dropped, so the operator can move the rod in a continuous forward motion—no rework.



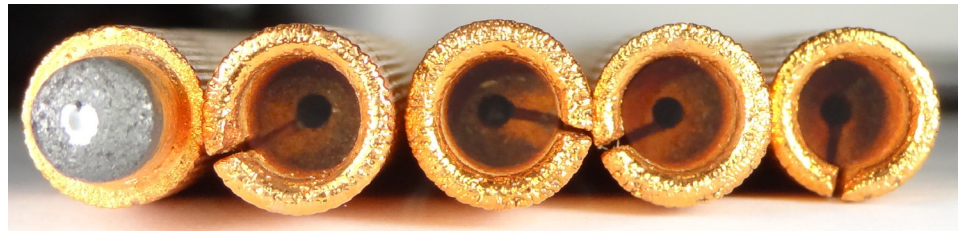
Hollow Core



Jointed Hollow Core

SAFETY

Lightning Rods are quieter and produce less smoke than standard solid carbon rods. The hollow core is plugged at one end to keep smoke from siphoning back to the operator. Since Lightning Rods are able to operate more quickly and smoothly, operators are less likely to tire from the repetitious movements that are required of standard rods.



The plugged end (shown on the left) is pointed towards the operator, to prevent smoke from blowing back.

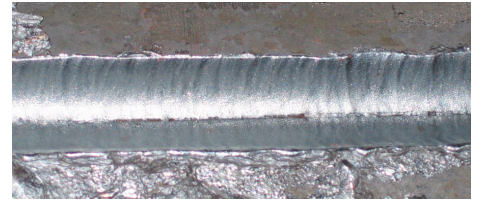
LONGER LASTING & MORE EFFICIENT

Lightning Rods use high density carbon surrounded by a thicker layer of copper shell. Standard rods normally contain a more porous carbon—about 28% less. Lightning Rods provide enhanced arc stability and

increased current over the rod for faster metal removal, while consuming the rod at a slower rate. This faster removal process allows the user to make a smooth continuous forward motion, rather than running the rod back and forth, thus saving time.

Jointed Lightning Rods are designed with straight joint connections so that joints fit tighter and allow for more efficient current transfer. Other jointed rods use tapered connections, which fit loosely and have a tendency to heat up and prematurely break off during the gouging process.

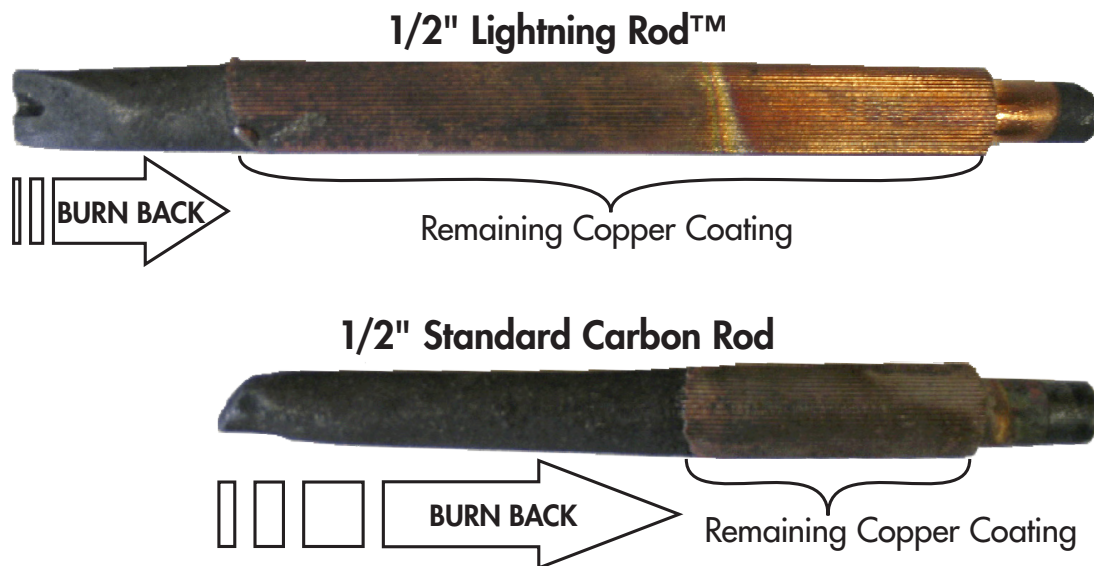
In the graph below, a Lightning Rod and a standard carbon rod were run at the same amperage, for the same length of time. Less of the Lightning Rod was used in the job and less of its copper has burned back, allowing for more efficient use of the remaining length of rod.



"As smooth as silk."



Less Smoke



FULLY AUTOMATIC APPLICATIONS

Lightning Rods operate faster and smoother. This allows machines to operate more efficiently by moving in one continuous direction, rather than wasting time and energy from scrubbing back and forth. The lower smoke production from Lightning Rods can help keep machines a bit cleaner.

MANUAL APPLICATIONS

Lightning Rods burn cleaner and produce less smoke and are quieter than solid carbon rods. The hollow core design allows Lightning Rods to operate faster and smoother than standard copper rods. Less mess and labor allows workers to be more efficient.



Machine Application

LIGHTNING ROD ORDERING INFORMATION

CARTONS

Our carbon rods are sold by the carton. Cartons contain multiple shelf-ready boxes of rods.

CASES

Standard rods are available in cases (containing multiple cartons), which are more cost-effective than buying individual cartons. Jointed rods are not available in cartons.

Sizes and Packaging Chart

STANDARD RODS	Part Number	Rods/Box	CARTON PACKAGING			CASE PACKAGING		
			Boxes/ Carton	Rods/ Carton	Weight (lbs)	Cartons/ Case	Rods/ Case	Weight (lbs)
5/32" × 12" (4.0mm × 305mm)	GT532X12	100	5	500	9	4	2,000	33
3/16" × 12" (4.8mm × 305mm)	GT316X12	50	5	250	7	8	2,000	53
1/4" × 12" (6.4mm × 305mm)	GT14X12	50	5	250	12	4	1,000	48
5/16" × 12" (7.9mm × 305mm)	GT516X12	50	5	250	16	4	1,000	64
3/8" × 12" (9.5mm × 305mm)	GT38X12	50	5	250	17	2	500	33
1/2" × 12" (12.7mm × 305mm)	GT12X12	50	5	250	38	N/A		

JOINTED RODS	Part Number	Rods/Box	CARTON PACKAGING			CASE PACKAGING		
			Boxes/ Carton	Rods/ Carton	Weight (lbs)	Cartons/ Case	Rods/ Case	Weight (lbs)
3/8" × 17" (9.5mm × 431mm)	GTJ38X17	50	6	300	41	Not Available		
1/2" × 17" (12.7mm × 431mm)	GTJ12X17	50	4	200	45			
3/4" × 17" (19.1mm × 431mm)	GTJ34X17	25	4	100	45			

To Place an Order

Call Toll Free: 800-749-3682
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 Email: orders@flametechnologies.com

www.FlameTechnologies.com