

**NEW  
PRODUCT**  
from EXO Technologies &  
& Columbia Machine Works  
PATENT PENDING

# SUPER PLUG™

## Rocket science for the melt shop

Replace your  
graphite lift plugs  
with the long life  
Super Plug



SAFE AND PRODUCTIVE SOLUTIONS  
FOR STEELMAKERS WORLDWIDE





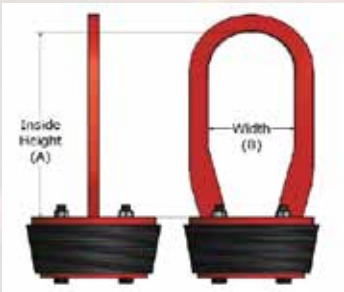
# SUPER PLUG™

## “Rocket Science for the melt shop”

A safer and more effective way of lifting & handling graphite electrodes, the EXO SUPER PLUG™ is designed to replace outdated graphite plugs for improved safety, and dramatically longer service life.



### THE EXO SUPER PLUG™ HAS THE STRENGTH OF STEEL WITH THE PROPERTIES OF GRAPHITE



#### SUPER PLUG™ FEATURES

- Designed with a proprietary Superalloy used in aerospace, electronics, and defense industries.
- Superalloy insert has the low Thermal Expansion Properties (CTE) of Graphite at the operating temperatures above the electrode holder with a strength that is similar to high alloy steel, 15-20x that of graphite.
- Insert can be changed and, in some cases, re-machined if it becomes damaged.
- Custom designed for any crane hook in use.
- Safety Factor of 4x Working Load Limit.
- Load Tested to 2x the Working Load Limit.
- The SUPER PLUG is Certified to ASME B30.20-2018 Below-The-Hook Lifting Device Standards.



#### SUPER PLUG™ BENEFITS

- **SAFETY!** The threads of the SUPER PLUG are resistant to wear compared to fragile graphite threads.
- **EASE OF USE** Since the CTE is compatible with graphite CTE, there is no seizing when coming off the furnace.
- **DURABILITY** Dramatically better durability and extended service life compared to fragile graphite lift plugs.
- **OVERALL MELT SHOP SAFETY** Dramatically reduced risk of socket-plug system failure due to high strength-low wear nature of the Superalloy insert.

EXO Technologies Super Alloy Lift Plugs are a brand-new concept to lift electrodes. With 10 - 15X the strength of graphite.

**“With the Super Plug, we don’t worry about dropping \$30,000 of graphite due to a plug failure”.**

— 32” EAF Operator —



#### EXCLUSIVE SALES REP

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