

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

US PATENT NO. 11,737,179 B2

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



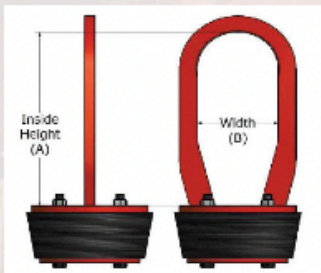
US PATENT NO. 11,737,179 B2
SUPER PLUG™

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A safer and more effective way of lifting & handling graphite electrodes, the EXO SUPER PLUG™ is designed to replace outdated graphite plugs for improved safety, and dramatically longer service life.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



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

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

— 32” EAF Operator —



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