

The Carbitron 300 Tungsten-Carbide Deposition System is a process whereby minute particles of Tungsten-Carbide are diffused into and deposited onto metallic surfaces for the purpose of improving wear characteristics and also for the correction of defects or mistakes.

The process employs a Tungsten-Carbide electrode mounted in a small hand-gun vibrator coupled to a specially designed power supply. As the Tungsten-Carbide electrode repeatedly contacts and withdraws from the work surface, small disruptive arcs are created which dislodge Tungsten-Carbide ions from the electrode and deposits them into and onto the work surface. The Tungsten-Carbide deposition layer forms a true metallic bond with the work surface with a hardness of 78-80 Rockwell C.

The thickness of the deposition layer is controlled by the discharge intensity selector on the power supply and may be varied from 0.0002" to 0.001" in increments of 0.0002".

The Tungsten-Carbide electrodes supplied provide excellent yield. Typically, a 1/8" x 2 1/2" electrode will coat approximately 50 sq. in. of surface with an average deposit thickness of 0.0005".

Carbitron 300 specifications - Catalog # TS3037

Dimensions:	11"L x 6"W x 5"H
Weight:	15 lb.
*Voltage:	110V, 60HZ, 4 amp
Nominal Power:	0.4 KW
Duty Cycle:	50% (Max. Cont. On Time-10 Min.)
*NOTE:	Also available 230V, 50HZ

Standard Equipment

- 1, Discharge Power Supply
- 1, Vibrator Hand Tool
- 1, Power Cable
- 1, Ground Cable
- 1, 1/8" x 2 1/2" Tungsten-Carbide Electrode
- 1, 1/16" x 2 1/2" Tungsten-Carbide Electrode
- 1, Instruction Manual

Electrodes:

Catalog # TS3038 - Tungsten-Carbide	1/8" x 2 1/2"
Catalog # TS3039 - Tungsten-Carbide	1/16" x 2 1/2"
Catalog # TS3040 - Tungsten-Carbide	1/32" x 2 1/2"
Catalog # TS3041 - Titanium-Carbide	1/8" x 2 1/8"

ACCESSORY

STEREOPTIC MAGNIFIER

Up to 48 Sq. Inch Work-Viewing Area

Assures continuous, fatigue-free production, eliminating eye-strain. Special precision engraved lens needs no focusing; maintains complete depth of field through all local point depths and distances. Heavy-duty metal base, polished steel horizontal and vertical bars. Optional halogen light available.

	Model	Power	Lens Size
Catalog # TS3047	U-66	3 Diopter	6" x 6"
Catalog # TS3048	U-68	2.5 Diopter	6" x 8"

Optional Gooseneck Halogen Lamp Available
Invaluable when applying Tungsten-Carbide to fine cutting tools

