

DEEP CRYOGENIC TREATMENT



CB Manufacturing is excited to announce the availability of **DEEP CRYOGENIC** treatment of knives, blades, and other industrial tools, in our “in house” microprocessor controlled, cryogenic chamber.

During heat treating, steel’s micro-structure transforms from austenite to martensite, which makes the steel much more wear resistant. However, some small pockets of austenite may not transform and this does not allow the knives to perform as well as they can. **DEEP CRYOGENIC** processing helps change retained austenite to martensite, completing the transformation process.

DEEP CRYOGENIC processing is different from conventional cryogenic processing and requires cooling the parts to more than 300° below zero compared to about 120° for conventional cryogenic processing. **DEEP CRYOGENIC** processing is a microprocessor controlled dry process, which includes cooling the parts at a programmed rate. Soaking the parts for up to thirty-six hours, and then an additional tempering operation to relieve any stress that may remain.

CB Manufacturing combines **DEEP CRYOGENIC** processing with our state of the art **VACUUM HEAT TREATING** capability to offer unmatched metal treating and the best performance possible from your knives and tools.

CB Manufacturing.
4455 INFIRMARY ROAD - WEST CARROLLTON, OH 45449
TOLL FREE 800-543-6860 LOCAL 937-866-5986 FAX 937-866-6844

DEEP CRYOGENIC PROCESSING OFFERS THE FOLLOWING BENEFITS:

- ✓ Increases abrasive wear resistance.
- ✓ Changes the knife's entire structure, not just the surface. Subsequent refinishing operations or re-grinds do not affect the permanent improvements.
- ✓ Increases durability and wear life.
- ✓ Decreases brittleness.
- ✓ Increases tensile strength, toughness and stability coupled with the release of internal stresses.

Ask your **CB Manufacturing** representative for details and pricing on the exciting process & improvement process.

CALL FOR PRICING

MAXIMUM SIZE – 48" X 30" X 30"
MINIMUM CHARGE - \$50.00
DELIVERY – 3 –10 DAYS

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Website: www.cbmfg.com E-mail: cbmfg@erinet.com



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