

Process Offerings



QPQ Liquid Nitriding

Produces a thin, high-hardness case that is wear and corrosion resistant, with little or no distortion of the part during processing.

Process up to:

42" Long, 28" Diameter, 800 Pounds



Gas Nitriding

This low temperature, low distortion case hardening process is ideal for producing hardened surfaces on pre-heat treated alloy steels and specialty grades.

Process up to:

75" Long, 39" Diameter, 6,000 Pounds



Induction Surface Hardening

Rapid, repeatable processing, low distortion, clean parts, and zone hardening are just some of the advantages of our induction hardening processes.

Process up to:

48" Long, 8.5" Diameter, 500 Pounds



Carburizing & Carbonitriding

Surface hardening treatment that produces a hard, wear-resistant case on the part surface, over a range of case depths. Best used with low carbon alloy steels.

Process up to:

92" Long, 42" Diameter, 2500 Pounds



Through Hardening (Quench & Temper)

Process used to increase the hardness and tensile strength of material, and in alloy steels that will result in optimum combinations of strength and toughness.

Process up to:

92" Long, 42" Diameter, 2500 Pounds



Flame Hardening

Surface hardening process used on medium carbon mild, alloy steels, or cast irons, to produce a hard wear resistant surface on the part.

Process up to:

30" Diameter, 300 Pounds



Metallurgical Lab

Case depth surveys, microstructure analysis, procedure development and testing, prototype testing and assessment.