



Statipower IFP®

Simultaneously Vary Frequency and Power

Statipower IFP® technology is a revolution in induction heat treating. It uses a single coil design for the heat treatment of a variety of part configurations, allowing the operator to simultaneously change power output and frequency on demand while achieving different case depths during a continuous heat treating cycle. The technical flexibility of the IFP® effectively addresses the needs of modern industry for cost effectiveness and superior process flexibility, greatly expanding induction equipment capabilities and further improving the metallurgical quality of heat treated components.

- Instant independent on-demand frequency & power adjustments
- Program different case depths during a continuous heat treating cycle
- True optimization of metallurgical quality



Features and Benefits:

- Designed for scanning and single-shot operations
- Maximum energy potential $\approx 700V$
- IGBT-type power supply
- Frequency adjustable between 5-60 kHz via HMI interface
- Output regulation accuracy is within $\pm 1\%$ of rated power with $\pm 10\%$ line variance to ensure precise process control
- Transformer options available to meet a majority of coil and part combinations
- Rated for continuous duty
- A LOW-ripple DC filter reduces the harmonic content of the AC conductor to less than 1%
- Input power factor is 0.95 under all operating conditions
- Profile harden by preheating with lower frequency and hardening with higher frequency
- Reduced cycle time for harden & temper operations