

VERTICAL ANNEALING SYSTEM - VAS FOR NECK & BODY CARTRIDGE ANNEALING



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THE PAST IS OVER

The performance of conventional gas fired neck & body annealers is inconsistent and sensitive to ambient temperature variations. They are difficult to program for accurate hardness profiles and they have a very low and uneven heating efficiency.

THE FUTURE IS HERE

Norax's vertical annealing system **VAS** is designed and manufactured based on "one part at a time" annealing concept. Parts fall through a quartz tube into a helical induction coil. Each case receives an exact amount of power in a specific period of time that is controlled by a PLC. This results in a very accurate and reproducible annealing process. Due to the nature of the coil design, radial annealing and thus radial hardness is very uniform compared to conventional rotary disk and linear feed systems.

VAS is designed for a specific caliber and maximum PPM, however, production rate can vary from a single part for calibration to maximum output by a simple settings in HMI/PLC. Induction efficiency is very high and requires about a third of conventional systems. The **VAS** is designed as a standalone unit and contains all supporting subsystems such as water supply, cooling system, parts bowl feeder and controls. The **VAS** can be an important upgrade and compliment to your existing production lines.

- **Precise & Consistent Annealing**
- **Uniform Hardness Gradient**
- **Touch Screen PLC Controlled**
- **Fully Adjustable Speed and Power**
- **Minimal Oxidation**
- **Economical Low Power Consumption**
- **Match your Production Output**
- **Accelerated ROI**
- **Simple to Maintain – Minimal Moving Parts**
- **Compact – Minimal Footprint**
- **Self-Contained – Needs Only Power & Air**

TECHNICAL SPECIFICATIONS

- | | |
|--------------------------|----------------------------|
| ▪ Production Rate | Single part up to 140 PPM* |
| ▪ Calibers | from 5.56 to .50 |
| ▪ Induction Power Supply | 5 – 20 kW |
| ▪ Working Frequency | 15 – 20 kHz |
| ▪ Main Supply Voltage | 400 – 600 volts |
| ▪ Power Regulations | 4-20 mA signal/PLC |
| ▪ Water Cooling System | Closed Loop |
| ▪ Footprint | 60" x 40" |

* Maximum PPM and induction power will be customized according to size of the caliber.



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