

The New Standard of Excellence in Induction Heating Technique

Fluxtrol Magnetic Flux Concentrators are at work in the leading industries throughout the world 24/7/365. At this very moment, they are being used in various sectors, such as aerospace, consumer goods and electronics. Their major application, however, is in making automobiles more durable, trucks stronger, and 4x4s more dependable.

Application development and prototyping are important parts of Fluxtrol's commitment to superior customer service.



ANNEALING

“Fluxtrol's magnetic flux concentrators have exceeded our expectations in the manufacturing of suspension components. They not only helped us lower our induction heating costs, but also improved our part quality.”

— Predi Medina
Process Engineer
TRW Canada Ltd.

HARDENING

“With the use of Fluxtrol's concentrators, we are able to process parts at a faster rate than using coils without their concentrators.”

— Tom Benoit
President
Flame Treating and Engineering Co.

From agriculture to mining, national laboratories and beyond, Fluxtrol is partnering with induction heating equipment manufacturers and their customers worldwide in manufacturing technology advancement.

The induction heating industry has recognized Fluxtrol Manufacturing, Inc. as the leader in the design, manufacture and service of magnetic flux concentrators.

FORGING

HOT FORMING

TEMPERING



SOLDERING

“We regard Fluxtrol Manufacturing as the leading supplier of magnetic flux concentrators in the world, to both OEM's and induction based thermal processors.”

— David M. Lurie
Group Publisher
Industrial Heating Magazine

A Legacy of Leadership



ROBERT S. RUFFINI
1935-1999
President, Fluxtrol
Manufacturing, Inc.
Director, Centre for Induction
Technology, Inc.

Robert S. Ruffini's pioneering contributions to induction technology began in earnest when he started Park Precision, Inc., in 1977. Soon after, he patented a magnetodielectric material for magnetic flux concentration now known as Fluxtrol® used in induction heating applications. Though not formally schooled in the theory of electromagnetics, Bob learned on the job and by networking through universities and industry contacts. He sold Park Precision to Ajax Magnethermic Corporation in 1985 and left in 1987 to dedicate his efforts full-time to R.S. Ruffini and Associates (incorporated in 1981), now known as Fluxtrol Manufacturing, Inc.

In 1994, Bob invited Russian scientist Dr. Valentin S. Nemkov, one of the world's foremost experts on electrotechnology, to join him in establishing Centre for Induction Technology, Inc. (CIT). CIT has since become a world leader in education, training and induction technology development.

Bob spent the last two decades of his life building Fluxtrol Manufacturing, Inc. to be the dominant supplier of flux concentrators in the world. One of Bob's enduring crusades was to educate induction OEM's and users about the benefits of magnetic flux concentrators and induction coil optimization.

He was a founding member of the ASM Heat Treating Society, and member of the Society of Manufacturing Engineers, the Engineering Society of Detroit, and American Powdered Metal Institute. He was — and remains — one of the pivotal figures in the history of modern induction heating.