# The future of Wave Technology

NIHON KOSHUHA Co., Ltd., established in 1932, pursues its ultimate potential while developing state-of-the-art technologies in the field of electromagnetic waves.

Our products feature an extensive range of communications, broadcast, semiconductor, and many other technologies. Examples include coaxial equipment for broadcast transmitters, coaxial components, waveguide components, high-vacuum microwave components, high-frequency power sources for semiconductor manufacturing, plasma-applied equipment as well as laser-related equipment. We have maintained our preeminent position by developing a number of breakthroughs in the industry.

Electromagnetic waves are applied in a diverse range of industrial fields including communications, broadcast, plasma, medical and food. Our aim is to position this "Wave Technology" to represent our corporate strategy through which we will continue to challenge the frontier of electromagnetic wave application technologies.

#### **Corporate Profile**

Company Name: NIHON KOSHUHA Co., Ltd.

Head Office: 1119 Nakayama-cho, Midori-ku, Yokohama

226-0011 Japan

Chairman & CEO: Kibatsu Shinohara Established: June 1, 1932

Capital: 156 million yen

Net Sales: 3.0 billion yen (Fiscal year ended August 20, 2007)

Number of Employees: 168 (As of August 20, 2007) Main Business: Development and sales of:

- Coaxial equipment for broadcast transmitters
- Coaxial components
- Waveguide components
- High-vacuum microwave components
- High-frequency power sources for semiconductor manufacturing
- Plasma-applied equipment
- Laser-related equipment



#### Coaxial Equipment and Coaxial Components for Broadcasting













**Waveguide Components** 



**Coaxial Switches** 

**Dummy Loads** 

Matrix Switches

Antenna Monitors

## High-vacuum Microwave Components for Accelerator

SiC Dummy

Loads

# **High-power Large-size Waveguide Components**



Hybrid Waveguide Components



Phase Shifters RF Guns



High-vacuum Waveguide Switches



Vacuum Waveguides



324MHz 3MW Variable Divider



324MHz 3MW Circulator

1250MHz 1MW Water-load

### High-frequency & Microwave Power Sources and Related Equipment



Power Sources for Accelerator



Pulse Modulators



High-frequency

**Power Sources** 







Accelerating

Structures

High-frequency Stabilized

Microwave Power Sources



Microwave **Power Sources** 

**Microwave Devices** 



Microwave Auto

Matching Units

**Power Monitors** 

High-frequency and Microwave Applied Equipment



Microwave Diamond Deposition System





High-frequency Induction





Laser-related Equipment





Laser Power Sensors

Ultra-high-temperature Plasma Processor Heating Equipment

Plasma Impedance Monitors

Chip Resistors

Absorbers