

Mars International is a supplier to the Fitness & Recreation industry providing custom electrical and mechanical assemblies and final products. Services include electrical and mechanical design, embedded software development, manufacturing engineering, and product delivery management.

Mars International designs and manufactures monitors, controls, and consoles for commercial and residential fitness equipment, personal fitness monitors, pool and spa controls, and other accessories to support physical fitness and recreation.

### **Product Applications**

Mars International is well positioned to support the product needs of equipment for the fitness and recreation industry. Key manufacturing and development capabilities provide the infrastructure and the service to benefit the following product solutions and more.

#### **Fitness Equipment Consoles**

- Treadmills
- Stationary bicycles / spinners
- Elliptical machines
- Steppers
- Adaptive motion trainers (AMTs)
- Rowing machines
- Vibration trainers

#### **Personal Fitness Monitors**

- Pedometers
- Heart rate monitors
- Cycling computers

#### **Pool & Spa Controls**

- Spa control panels
- Sauna controls
- Steam bath controls
- Remote controls
- Pool timers and controls

#### **Recreational accessories**

- Bicycle lights
- Stopwatches and timers
- GPS units

#### **Key Manufacturing Capabilities**

- **Total product assembly**
- **Printed circuit board assembly**
- **Molded plastics** – enclosures, buttons, switches, etc.
- **Precision metals** – casings, machined parts, etc.
- **Electro-mechanical assembly**

#### **Key Development Capabilities**

- **Optimized embedded software**
- **Mixed signal design**
- **Printed circuit board layout**
- **Tooling design and construction**
- **Molding simulation**
- **Structural analysis**
- **Test procedure definition**
- **UL and FCC pre-certification**

#### **Key Technologies**

- **μProcessors / μControllers**
- **Digital signal processors**
- **Wireless RF communications**
- **USB connectivity**

Programmable steam bath controller



Steam bath remote control



Rowing machine monitor



Pool and spa time switch



Swimming machine receiver



Swimming machine remote



Steam bath shower head



Pool water analyzer

