



Weighing Solutions for Semiconductor & Electronics Manufacturing

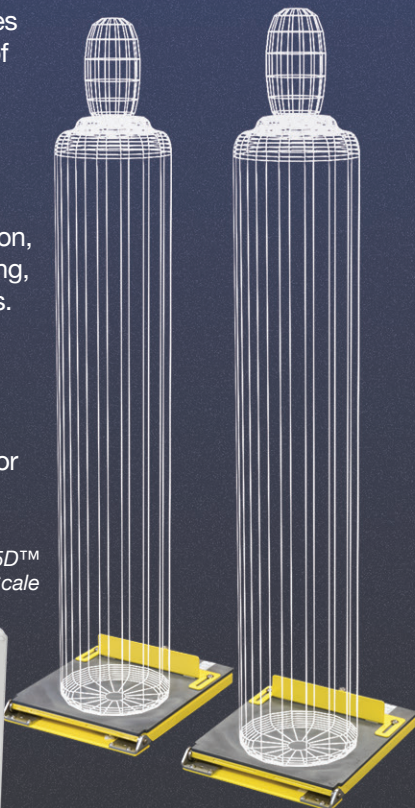
The Leader in Corrosion Resistant Scales for Semiconductor and Electronics Manufacturing Applications

Scaleton is the leader in corrosion resistant technology for scales used in harsh environments. We manufacture a complete line of scales and accessories designed for weighing and monitoring the usage, feed rate and inventory of corrosive chemicals and/or materials.

From silicon wafer fabrication and integrated circuit production facilities to PC board manufacturing and electronic assembly operations, weighing technology from Scaleton ensures reliable and accurate measurement of chemical gases during the production processes to maintain high levels of product purity.

Producing an integrated circuit requires over 30 different gases for chemical vapor deposition, etching, oxidation, doping, and inerting applications. During these steps, monitoring the supply of liquefied gases via weight is critical to the advanced semiconductor manufacturing process.

Model 2305D™
Digital Dual Cylinder Scale



Features and Benefits of Scaleton Scales

- **Safety** – Protects operator/worker safety by early detection of chemical exposure.
- **Accuracy** – Insures accurate tracking of chemical usage and inventory.
- **Regulatory Compliance** – Meets government and municipal regulations for safety and record keeping in the handling of water treatment chemicals.
- **Cost Savings** – Prevents overfeeding of expensive chemicals through accurate feed rates.
- **Corrosion Resistant Construction** – Rugged molded fiberglass reinforced thermoplastic or steel with protective finish and solid PVC deck.
- **Low Profile Platform Design** – Increases safety and ease of cylinder handling.
- **Ease of Use** - LCD display with encoder knob or keypad input and multi-level menu system.
- **Remote Capability** – Provides scale weights from remote locations via 4-20mA output signal.
- **Extended Warranty** – 5 Year full warranty on all products.



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Meeting the Weighing Needs of the Semiconductor and Electronics Manufacturing Industry

We meet the needs of the semiconductor and electronics manufacturing facilities by providing reliable, accurate and safe methods to weigh chemicals and gases used for the manufacturing of silicon wafers, chips and integrated circuits as well as in electronics assembly operations.

Chemicals used during these processes are typically stored in cylinders or dewars as a liquefied gas or in an IBC tote as a liquid. Monitoring the feed rates via weight is vital to maintaining product quality. Damage caused to products by excessive or interrupted gas flow during the production process can be extremely costly. In addition, knowing how much gas is remaining in each cylinder so that the supply does not run out helps avoid shutting down production lines.

Typical chemicals include:

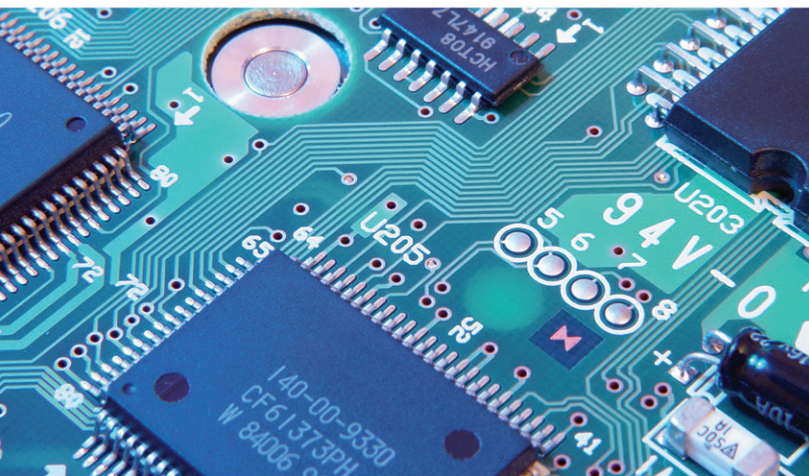
- Atmospheric gases – argon, helium, hydrogen, oxygen, nitrogen
- Corrosive gases - chlorine, hydrogen bromide and chloride
- Dopant gases – arsine, phosphine
- Etchant gases – halocarbons, hydrogen chloride and fluoride
- Reactant gases - ammonia, carbon dioxide, nitrous oxide, tungsten hexafluoride
- Precursor gases – silane, dichlorosilane, trichlorosilane, silicon tetrachloride
- Soldering and cleaning gases – nitrogen, carbon dioxide

Scaletron's scales can be found in many semiconductor and electronics manufacturing applications including:

- Chemical vapor deposition and sputtering
- Etching of compounds and metallic interconnects
- Inerting and purging of gas cabinets and processing systems
- Ion implantation
- Soldering and cleaning

Whether the application requires a standard or custom weighing system, Scaletron's engineers will help find the right solution to best meet your weighing needs.

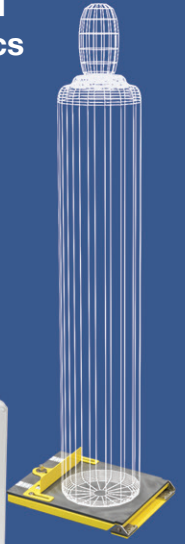
Please visit www.scaletronscales.com for products, specifications, and technical data. Our online Request for Quote (RFQ) is available 24/7.



Scaletron Scale Models Designed for Semiconductor and Electronics Manufacturing Applications (other models and capacities available)

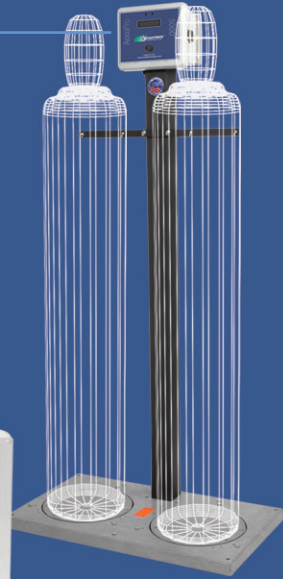
Model 2305™ Economical Digital Single Cylinder Scale

- Net capacity 150 lbs. – up to 12" dia.
- Coated steel base with PVC deck
- LCD display with readout to .1 lb. (kg)
- 4-20mA output and set point relays



Model 2350™ Digital Dual Cylinder Scale

- Net capacity 150 lbs. per disk up to 12" dia.
- Fiberglass reinforced plastic base
- LCD display with readout to .1 lb. (kg)
- 4-20mA output and set point relays



Model 4040 IBC™ Tote Bin Scale

- Net Capacity 10,000 lbs. – up to 72" x 72"
- Coated steel base with PVC deck
- LCD display with readout to .1 lb. (kg)
- 4-20mA output and set point relays

