

# *THE RAZOR'S EDGE<sup>SM</sup>*

*IN PRECISION  
MEASUREMENT  
TECHNOLOGY*



**RICE LAKE WEIGHING SYSTEMS**  
METROLOGICAL PRODUCTS & SERVICES GROUP

INCLUDING  
**MASSTAR<sup>★</sup>**  
PRECISION CALIBRATION WEIGHTS



# THE RAZOR'S EDGE...

We've earned our reputation as the premier ISO 9001 registered supplier in precision measurement by staying on the cutting edge of technology, offering the most advanced, reliable products and services available. In fact, as a pioneer in the campaign against adverse effects of magnetism on mass measurements, we've developed the revolutionary MASSTAR weights and standards... far less susceptible to magnetic-derived errors than traditional weights. Just one more demonstration of our commitment to stay... on the razor's edge.

## THE TECHNOLOGY

- Our state-of-the-art facility designs and manufactures a complete line of premier weights and standards that conform to ASTM and OIML specifications. We use only certified stainless steel with exceptional wear/corrosion resistance. Our specialized MASSTAR manufacturing process substantially reduces magnetic field strength and susceptibility.

## THE EXPERIENCE

- Over 50 years in the weighing business.
- NVLAP\*-accredited metrology labs, including primary and secondary working standards traceable to NIST. Our precision weighing instruments and mass standards are meticulously maintained in accordance with ANSI/NCSL Z540-1 (which replaced MIL STD 45662A).

## THE COMMITMENT

- Unequalled dedication to exceptional quality and fast, professional service.
- All orders guaranteed to be within the specific class tolerance requested.
- Nobody understands your needs better than our experienced metrology professionals!

### POLISHED LABORATORY WEIGHTS & MASS STANDARDS



#### MASSTAR Lab calibration weights & mass standards

When the ultimate in accuracy is required, our polished laboratory weights offer the highest quality available. All weights are specially manufactured to reduce magnetic properties and meet ASTM E 617-91 specifications.

Mass standards are available in one- and two-piece designs for use in precision tolerance testing, as reference standards, and in research demanding the highest degree of consistency. All are available with traceable or calibration certificates.

#### MASSTAR Oiml Weights

OIML (Organization of International Metrology) calibration weights include classes E2, F1, and F2. Two-piece Class F1 and F2 weights are designed to accommodate adjustment if necessary. Class E2 weights consist of a solid piece of polished stainless steel with no sealing cavity, allowing for precise density measurements.

Manufactured in strict accordance with OIML International Publication R 111, 1994 edition, all of our OIML weights meet or exceed these international requirements for magnetic susceptibility, design, and density. All are available with traceable or calibration certificates.



### SATIN-FINISH CALIBRATION WEIGHTS



#### MASSTAR Calibration Weights

These weights were developed for calibration and adjustment of electronic balances and scales in laboratory and industrial applications. Our precision calibration weights are manufactured and adjusted to reduce magnetic properties and to meet ASTM E 617-91 specifications and tolerances for classes 2, 3, and 4.



Our stackable calibration weights feature two-piece, all stainless steel construction with a highly-buffed satin-finish surface (16 microfinish or better). To make handling as convenient as possible, larger weights feature a recessed grip handle for easy portability and maximum control during sensitive calibration procedures. Calibration weights from 10 grams to 5 kilograms include a durable case for protection during storage and transportation. All are available with traceable or calibration certificates.

### SPECIALTY & CUSTOM WEIGHTS

Our specialty weights include slotted, hook, cube, and ring weights. All stainless steel specialty weights are available to meet ASTM, NIST, and OIML tolerance requirements. If our existing weights don't fit your needs, we'll design one specifically for your application. We offer fast turnaround on all custom weight designs, regardless of size, shape, material, or tolerance requirements.



Weights are available individually or in sets to suit your specific application.



# NEVER LOOK BACK.



## CALIBRATION & TRACEABILITY CERTIFICATES

For fast, accurate precision calibration designed to meet your ISO 9000 requirements, our services are unparalleled. Our NVLAP-accredited metrology laboratories provide both Traceable and Calibration Certificates at your request. Accreditation by NVLAP acknowledges that we possess the technology and skills required to offer the highest-quality mass measurement calibration available for weights in accuracy classes I, II, and III.

All Traceable and Calibration Certificates provide traceability to NIST and meet ANSI/NCSL Z540-1 requirements. For your convenience, we offer calibration services by appointment, or through a FREE customized program where we automatically notify you when your mass standards require calibration.

### Memberships...

Rice Lake Weighing Systems holds membership and actively participates in the following quality assurance programs:

- **NVLAP**®-Accredited Weight Calibration Services\*
- NIST Mass Measurement Assurance Program
- Northeast Measurement Assurance Program
- National Conference of Standards Laboratories
- National Conference of Weights and Measures

Call 800-357-8627 (TMAP)  
To Request Your Free  
Precision Measurement Catalog!



Your Rice Lake Weighing Systems Distributor is:

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\*Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the specific scope of accreditation under Lab Code 105001.