



**3R Macro
SS Precision Gage Balls
\$985.00 each +S&H**

CERTIFICATION TO +/- .0001

The Acronym **ADP-MI**

refers to our High Precision
Gage Ball's ability to enable you to
**Associate your Design,
Programming - Machining
and Inspection**
when working with **System 3R's
Macro Palletizing System**



**As Seen in Modern Machine Shop Magazine
November 2003 and March 2005**

Please visit our web site, call, or email for more details.

To Order your New ADP-MI Precision Gage Balls
send check or money order to:
(Custom Tools - allow 5-7 weeks for delivery)



29048 190th Street • Honey Creek, Iowa 51542-4110
602-284-3114

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EMAIL: len@lengrahamconsulting.com

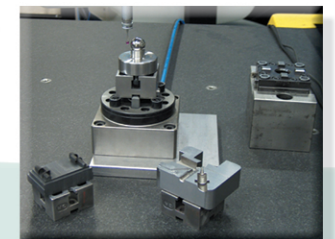


**Maximize Advantages of Palletizing
Utilizing our High-Precision Gaging Balls**

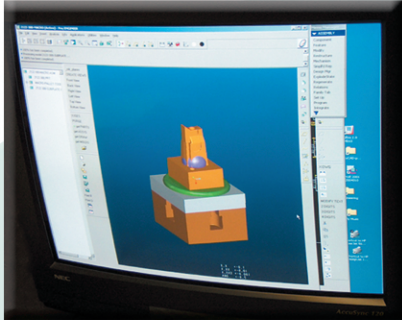
**Save Time and Money by
Associating Your**

- Design Engineering
- Programming of Machinery
- Machine Set-Ups
- Machining Operations
- Inspection

**To Our High
Precision Gage Balls**



ENGINEERING

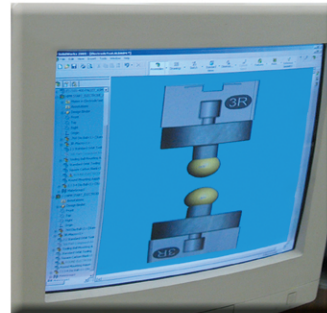


Your shop can NOW Engineer into your processes Improved Speed and Accuracy

- Design components and electrodes dimensioned to ADP-MI gaging balls
- Provide programming and set-up information engineered to ADP-MI gaging ball datums
- Associate design and programming data into your CMM inspection/certification utilizing ADP-MI gaging balls

MANUFACTURING

CNC Machining center establishing ADP-MI gaging ball datum points using probe



Programming datum positions of electrodes and work pieces can be engineered for Sinker EDM

Sinker EDM Machine being set-up utilizing ADP-MI gaging balls in both Ram and pallet receiver establishing datum position

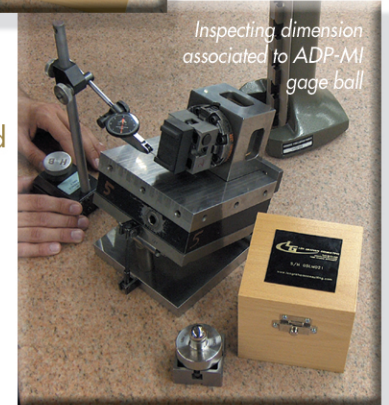


ADP-MI Gaging Balls are also applicable for any CNC Machine equipped with pallet receiver

INSPECTION



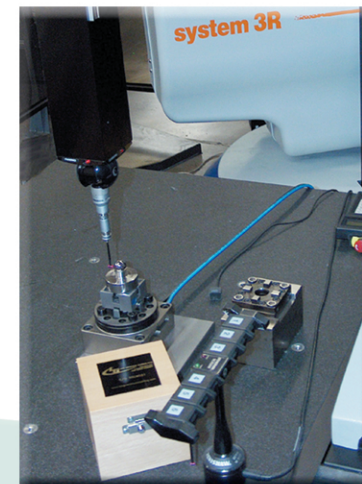
Picking up ADP-MI gage ball



Inspecting dimension associated to ADP-MI gage ball

Manual inspection utilizing engineered ADP-MI gaging ball datums

- Electrodes
- Components



CMM in-process dimensional verification plus final dimension certification to ADP-MI gaging ball datums are possible