



ENGINEERING SPECIALISTS INC.

Providing Technical Engineering Services Worldwide Since 1974



KNOWLEDGE & EXPERIENCE YOU CAN TRUST

Automated Meter Tester

Situation:

An internationally known manufacturer of water, oil & gas and waste water treatment and chemical metering systems wanted to develop an automated meter test stand to measure and report the accuracy of and to calibrate its products.

Solution:

Engineering Specialists Inc. designed and built a system that provided for the simultaneous processing of 5 meters, in a turret style fixture and would provide for either dynamic or gravimetric testing using weigh scales for accuracy.

The meter calibration and accuracy interface was performed utilizing IrDA optical heads and serial communications. The control system was powered by a 480VAC, 3 phase supply and included one motor control and power distribution center with (2) 40HP frequency drives and (2) 2hp frequency drives. Controls used were Rockwell Automation Compact-Logic PLCs and Panel-view Plus 10" HMI. The benches used I/O - DAQ enclosures with serial to Ethernet drivers. A PC was used to run custom test applications.

Objectives and results:

The objective of the project was to be able to keep up with current and projected production levels while providing more accurate and complete testing and calibration data. The resulting system increased meter testing throughput when compared to the current system and provided the desired growth.

All systems were completely tested at Engineering Specialists, Inc. and at the customer site prior to start-up and commissioning. All testing met and exceeding the customer specifications.

We use our experience with current and emerging technologies to provide robust, custom automated control systems, equipment and networked information systems that improve the efficiency, product quality and profitability of our customers.





Our History

**A REGISTERED PROFESSIONAL
ENGINEERING FIRM**

UL508 Certified (NNNY, NRBX, NITW)



Engineering Specialists, Inc. was founded by Robert Miller, a graduate of Marquette University's Electrical Engineering Program and Robert Phillips, a graduate of MATC.

The two close friends in need of a change had thought about consulting, but instead began building and designing the sophisticated equipment used by many of the most competitive businesses in the market today. Bob Miller recalls filing the very first customer file in his cabinet wondering if he would ever fill it. That was over 40 years, 1400 customers, and 20,000 projects ago!

With the technological challenges that all businesses experience, sometimes on a daily basis, Engineering Specialists has managed to evolve with the times to keep its customers in motion and ahead of their competition.

Contact Engineering Specialists today and find out how our skilled engineers and technicians can provide your unique business with the tools it needs moving forward successfully into the future.

3 Convenient Locations

CORPORATE OFFICE

21360 Gateway Court
Brookfield, WI 53045
Phone: (262) 783-8000
Fax: (262) 783-8001

NEENAH OFFICE

2416 Industrial Drive
Neenah, Wisconsin 54956
Phone: (920) 751-3900

RACINE OFFICE

1139 Sunnyslope Drive
Mount Pleasant, WI 53406
Phone: (262) 783-8000
Fax: (262) 783-8001

Partners

