



 **ReACT**  
Technologies

*Real-Time Automation, Control and Testing*



## Productivity

Capital expenditures and operating costs in the R&D community have escalated substantially over the past two decades. Enhancing automation capabilities is one of the methods for improving productivity and reducing product development costs.

ReACT Technologies can cost-effectively implement these automation enhancements within any new or existing facility.

ReACT Technologies Inc. is a computer systems integration company that delivers complete automation solutions for R & D and production testing facilities.

Systems designed by ReACT are integrated vertically from test planning through test execution, to facility management.

ReACT has won industry accolades and respect from both clientele and competitors for its uncompromising attention to detail and for its record of achieving increased productivity in the demanding and complex R&D environment.

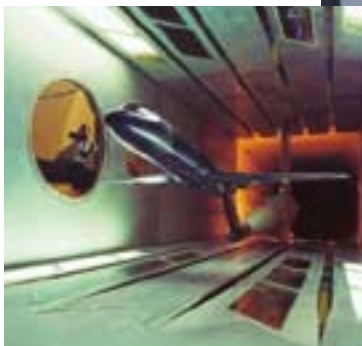
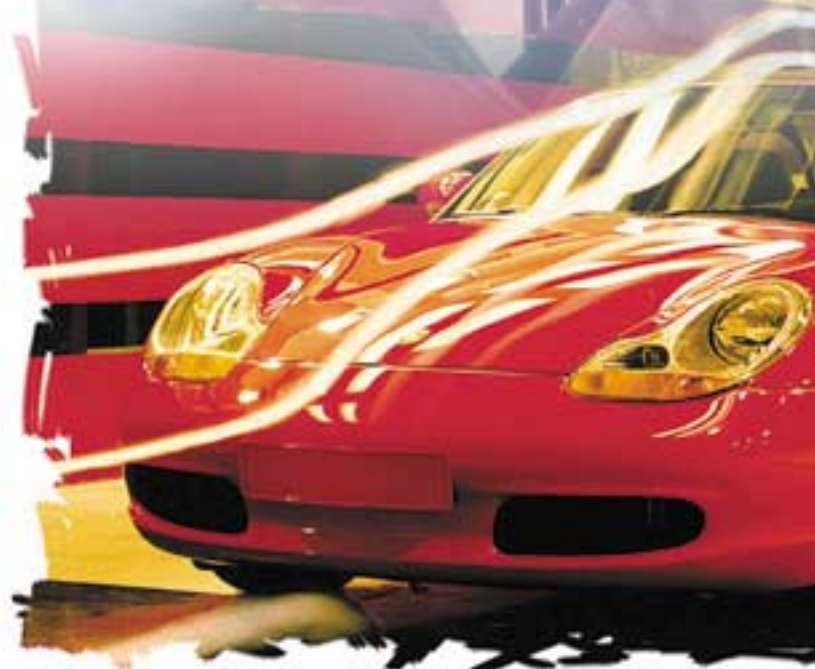


Photo courtesy of NLR



Photo courtesy of Volvo Car Corporation



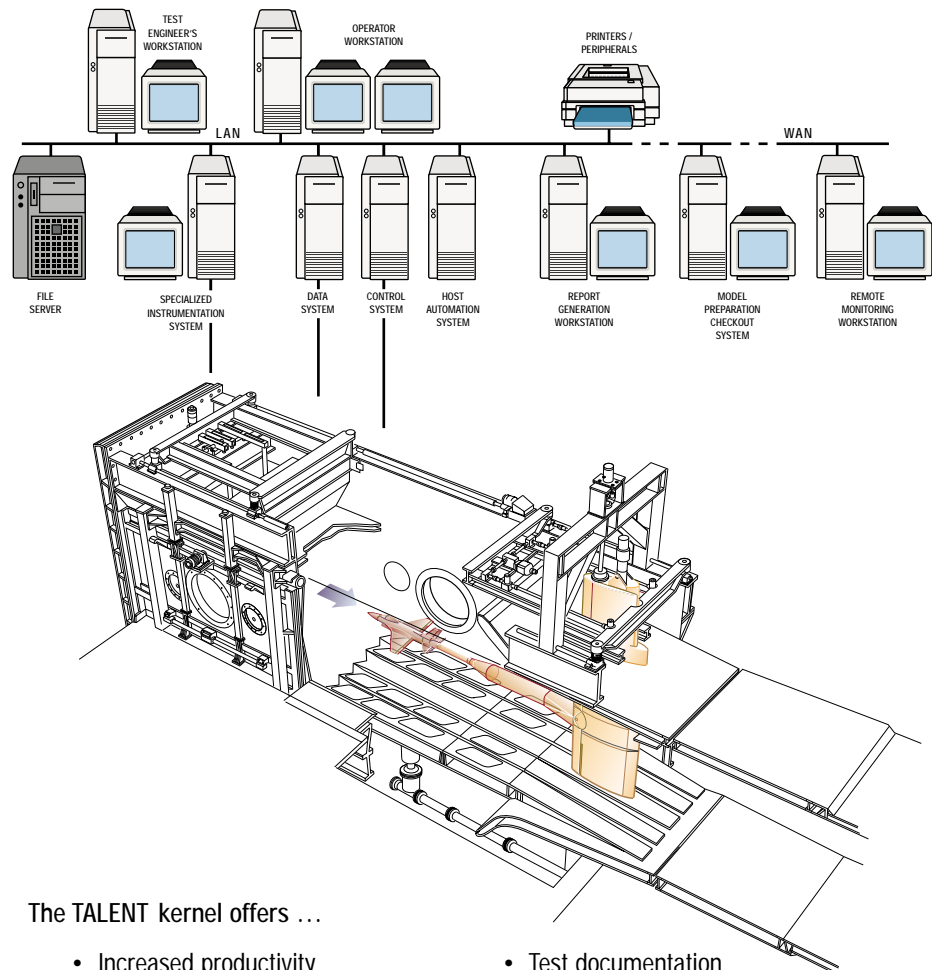
## TALENT™ Test Automation System

ReACT Technologies Inc. has engineered a sophisticated software environment for test facility automation ... the TALENT Test Automation System.

The TALENT system is a highly modular and scalable system that can be deployed on one computer or spread across several computers. Facility specific components are integrated to the TALENT kernel using the industry standard Distributed Component Object Model (DCOM). This open architecture allows additional components, e.g. control or instrumentation systems, to be added at any time as the capabilities of the test facility change. Updates to the TALENT kernel can be installed without affecting the facility specific control and data systems.

The TALENT system provides an automation environment that encompasses all aspects of the testing process, from test planning through test execution to facility management. Test procedures can be easily programmed using the Microsoft VBA Integrated Development Environment (IDE). This is the same environment used for automating Microsoft Office applications.

TALENT provides built-in auditing tools, including operation logging and calibration histories, to help the client to achieve ISO 9000 status within the test facility.



The TALENT kernel offers ...

- Increased productivity
- Versatility and flexibility
- Consistent User Interface
- Data reliability
- Data Security and Auditability
- Test planning
- Test documentation
- Facility management
- Open architecture (MS DCOM)
- Comprehensive diagnostics
- Non-obsolescence, continuous development and upgrade support



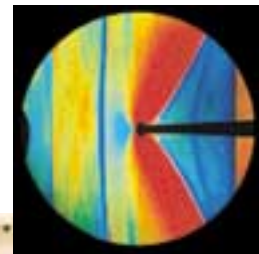
## The Testing Environment

Although most test facilities are automated to some degree, many are automated only with regard to the operation of the process control systems. In these facilities, managers, test engineers and operators are faced with the problem of employing a wide variety of software tools, each of which only handles specific functions such as facility control or data acquisition and have different user interfaces.

The skillful integration and automation of the testing environment, such as sharing data, automating test procedures and remote monitoring permits an R & D or production testing facility to achieve its maximum productivity potential.

The primary challenge is to provide test engineers and researchers with consistent, intuitive and easy-to-use tools for:

- planning tests
- automating widely diversified and complex test procedures
- ordering tests
- executing tests
- monitoring tests locally or remotely
- auditing tests



T-38



Photo courtesy of Ford Motor Company



Photo courtesy of Saab Automobile AB



Air Flow Test Stand



## Services

### Engineering

Concept design, analysis and simulation of high performance control systems

### Integrated Solutions

Complete real time automation systems  
Specialized intelligent instrumentation systems  
Motion control systems

### Development

Traditional system analysis and hardware development  
Systems level software development, including operating systems, drivers and specialized languages.

## Typical Applications

### Aerospace Sector

Wind Tunnel Automation Systems  
Data Systems  
Process Control Systems  
Model Support Systems  
Traversing Robot Systems  
Captive Trajectory Simulation Systems  
Dynamic Stability Derivative Testing Systems

### Automotive Sector

Wind Tunnel Automation Systems  
Data Systems  
Process Control Systems  
Climatic Testing Systems  
Engine Air Flow Testing Systems  
Engine Test Cells

## Clientele

Agency for Defense Development (Korea)  
ABC Air Management Systems Inc.  
Daimler-Benz (DaimlerChrysler)  
Ford Motor Company  
General Motors Corporation  
Honda R&D Company  
Hyundai Motor Company  
Imperial Oil Limited  
Italian Center for Aerospace Research (CIRA)  
Motor Industry Research Association (MIRA, U.K.)  
NASA  
The Netherlands Aerospace Laboratory (NLR)  
PSA Peugeot Citroën/Renault/CNAM  
Porsche AG  
Rail Test & Research / Rail Tec Arsenal  
Renault Samsung Motors  
Saab Automobile AB  
Shell  
Volvo Car Corporation

## What Our Clients Say...

*"It is my opinion that ReACT Technologies is the best supplier in the world ... in the area of process integration and real-time data acquisition packages for use in automotive and aerospace test facilities."*

*"The overall value received for the cost of the ReACT portion of this project was exceptionally good ... ReACT has not once failed to meet scheduled deadlines even with unforeseen changes in the scope of work. The technical expertise of the entire ReACT organization is evident in the final product."*



ReACT is ISO 9001 registered in software design, development and systems integration

#7-201 2600 Skymark Ave., Mississauga, Ontario, Canada L4W 5B2  
Phone: (905) 206-1311, (416) 410-0888 Fax: (905) 206-1378

©2001 ReACT Technologies Inc. All rights reserved. The TALENT™ logo and tradename are registered trademarks of ReACT Technologies Inc. Windows™ is a trademark of Microsoft Corporation. All other trademarks belong to their respective owners.

Visit our web site  
[www.reacttech.com](http://www.reacttech.com)  
or e-mail us at:  
[market@reacttech.com](mailto:market@reacttech.com)