



# Success Story

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## Industry: Machine Builders

### Customer: IDRA Presse S.p.A.

Brescia, Italy



**IDRA Press Plant – Italy**



**Pressure Die Casting Machine**

IDRA Press is a leading producer of Pressure Die Casting Machines. IDRA manufactures large (20 to 5000 Ton clamping force) metal die casting machines which are shipped to clients worldwide. The market focus for IDRA is in automotive, where their machines are used to cast engine blocks, car body frames and other automotive parts for clients such as Mercedes-Benz, Ford, GM, Chrysler, VW, BMW, Fiat and many others. They also have casting customers such as Black & Decker, Electrolux, Siemens and Singer. Over 80% of their sales are in Europe.

### ICONICS Software Deployed

IDRA selected ICONICS to provide them with state-of-the-art injection press machine monitoring and control after evaluating nine other suppliers including Intellution, Wonderware, WinCC and RSView. IDRA replaced their existing Orsi Cube system with the GENESIS32 HMI Software suite, which included GraphWorX32, AlarmWorX32, TrendWorX32 and ScriptWorX32 and installs this on each Pressure Diecasting Machine they deliver to their customers.

### Key Features

IDRA has the requirement of sampling process parameters on their Pressure Die Casting Machines at 10,000 cycles/sec and needed a software system to have the ability to collect real time data at those rates. They use an external sampling system using a real time operating software. This system is connected through an Ethernet link with ICONICS software using an OPC Server on a PC, where TrendWorX32 trends the data collected. This data is then sent via a LAN to a centralized database for final evaluation and storage.

### Tip From the Customer

“The ICONICS Software system has significantly reduced development and implementation time and has allowed us to tailor the systems, very efficiently, to the customer needs.”

**Dr. Davide Gardoni, Project Supervisor**



**Press Control**



**Press Quality Control Station**

## Project Summary

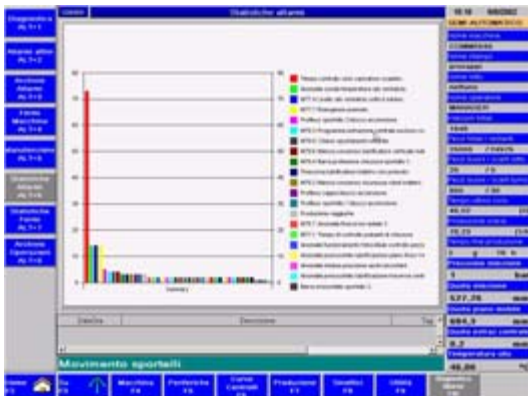
ICONICS GENESIS32 software has been deployed to provide supervision and operator visualization about the metal injection press machines operations. The operator has the ability to set the machine parameters and to display critical real time information about the process. All the real time injection data from the press machine is collected and stored in a relational database. All collected data is available by graphic display that also includes Third Party ActiveX's data. IDRA also uses ICONICS TrendWorX32 to display and store process data. Each press machine is equipped with dual network interface cards, one for communicating collected real time data over their LAN to be stored into their database. The second network interface is used by the end customer to provide them with access of all the stored data on that press machine through an ODBC driver. A modem is also installed on the press machine for remote diagnostics and / or update modifications from IDRA. The press machine system interfaces with up to 4 Siemens PLC's, 1 Allen-Bradley PLC and has over 500 I/O points with 300 Tags. The complete installation was completed by IDRA over 18 months.



**Press Statistical Data**

## Reporting and System Benefits

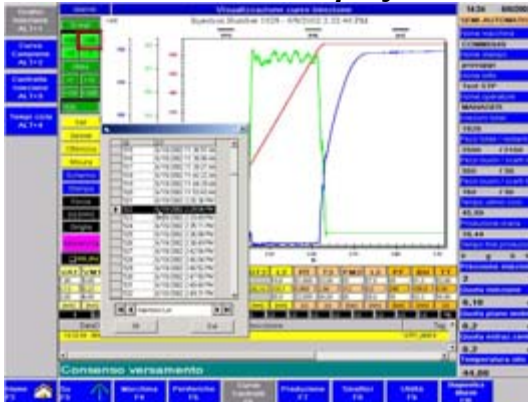
Collected press machine data is stored in a Sybase Data Base. The use of ICONICS Software default libraries have made it possible for IDRA to develop special login – logout software personalized to each user. They were also able to develop DLL library ActiveX which provides graphical interface for injection line visualization, PLC interface and navigation buttons used in runtime mode. The ICONICS enables IDRA to easily address the customization requirements of their customers. With the ICONICS Software being extremely flexible, it is possible to change the control systems of a press machine under software control, by up to 30% very easily without impacting original delivery schedules. Giving the customer access to the collected press machine data as the systems are built is a valuable selling tool for IDRA. The ease of use of ICONICS Software, cut and paste tag name feature and the modularity of configuring their alarm screens using AlarmWorX32 makes system implementations extremely easy and fast to develop.



**Press Alarm Display**

## Conclusion

ICONICS has worked closely with IDRA to make their Metal Injection Press Machine project successful in every aspect. IDRA participates in the ICONICS OEM Support and Maintenance program to keep its software updated and for access to technical support personnel as needed.



**Press Trend Data Display**