



IDRA Presse S.p.A. Plant
in Brescia, Italy



Customer Success Story

IDRA Presse S.p.A. Brescia, Italy



	Min	Max	Unit	Status
1 Velocità media (VM1)	1.00	2.00	mm/s	OK
1 Velocità massima (VM1)	3.00	4.00	mm/s	OK
1 Deviazione velocità dalla media	0.00	0.00	mm/s	OK
1 Pressione massima (PM1)	7.00	8.00	MPa	OK
2 Velocità media (VM2)	0.00	10.00	mm/s	OK
2 Velocità massima (VM2)	11.00	12.00	mm/s	OK
2 Deviazione velocità dalla media	13.00	14.00	mm/s	OK
2 Pressione massima (PM2)	16.00	18.00	MPa	OK
2 Durata prova (filling time) (DT)	17.00	18.00	s	OK
2 Pressione di prova (PT)	19.00	20.00	MPa	OK
2 Tempo di attesa (ET)	21.00	22.00	s	OK
2 Durata prova (ET)	23.00	24.00	s	OK
3 Pressione massima (PM3)	25.00	26.00	MPa	OK
3 Spazio percorso (ST)	27.00	28.00	mm	OK
3 Pressione finale (PF)	29.00	30.00	MPa	OK
3 Addezza moltiplicata (MT)	31.00	32.00	mm	OK
3 Pressione finale problema (FP)	33.00	34.00	MPa	OK
3 Tempo totale di iniezione (TT)	35.00	36.00	s	OK

Control Screen at IDRA Presse

“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
IDRA Presse

Intellution, Wonderware, WinCC and RSView. IDRA replaced their existing Orsi Cube system with the GENESIS32™ HMI Software suite, which included GraphWorX™32, AlarmWorX™32, TrendWorX™32 and ScriptWorX™32 and installs this on each Pressure Diecasting Machine they deliver to their customers.

About IDRA Presse

IDRA Presse is a leading producer of Pressure Die Casting Machines. IDRA manufacturers large (20 to 5000 Ton clamping force) metal die casting machines 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

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 with 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.

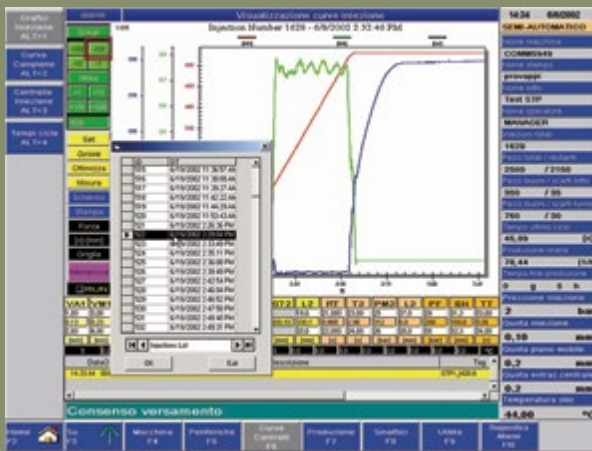
Project Summary

ICONICS GENESIS32 software has been deployed to provide supervision and operator visualization to the metal injection press machine operations. The operator has the ability to set the machine parameters 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 in a graphical 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 communicat-

Benefits of the System

Collected press machine data is stored in a Sybase database. The use of ICONICS software default libraries has 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 a graphical interface for injection line visualization, PLC interface and navigation buttons used in runtime mode. ICONICS enables IDRA to easily address the customization requirements of their customers. With 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



Presse Trend Data Display at IDRA Presse



Presse Statistical Data

ing 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 to 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 PLCs, 1 Allen-Bradley PLC and has over 500 I/O points with 300 Tags. The complete installation was completed by IDRA over the course of 18 months.

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 inherent to ICONICS software, the cut and paste tag name feature, and the modularity of configuring alarm screens using AlarmWorX32, makes system implementation extremely easy and quick to develop.

Conclusion

ICONICS has worked closely with IDRA to make their Metal Injection Press Machine project successful in every aspect.

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