

Software for the Precast and Prestressed Concrete Industry

prepared by

The PCI Software Committee

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Based on a national survey of computer vendors, a summary is presented of available software servicing the precast and prestressed concrete industry.

The PCI Computer Software Committee has surveyed the currently available computer software that supports the precast prestressed concrete industry. Using a uniform format to determine the features of the software, the committee has collected hardware from twelve vendors. The information includes program functions, hardware configuration requirements, documentation, support, and technical features. The chart provided here gives a brief summary of the survey information.

For those who want a copy of the complete set of survey responses (75), it may be obtained from the Prestressed Concrete Institute for \$15.00 per set.

The vendors who responded to the survey request may be contacted as follows:

- **Allen Engineering Technologies, Inc.**
3300 Arapahoe Avenue, Suite 201
Boulder, CO 80303
303-444-0726
- **The Consulting Engineers Group, Inc.**
1701 East Lake Avenue
Glenview, IL 60025
312-729-0646
- **Ecom Associates, Inc.**
8634 West Brown Deer Road
Milwaukee, WI 53224
414-781-9538
- **Jaam Engineering**
P.O. Box 193
Newton, KS 67114
316-283-7251
- **Jacques & Aswad, Inc.**
7000 Broadway, Building 3
Denver, CO 80221
303-430-3415
- **Interactive Designs Corporation**
2360 North 95th Street
Boulder, CO 80301
303-665-4961
- **LEAP Software, Inc.**
10730 North 56th Street, Suite 220
Tampa, FL 33617
800-624-2232 ext. 128
- **James J. Mallett, P.E., P.A.**
416 North Baylen
Pensacola, FL 32501
904-438-7794
- **Edward D. Perry**
727 West Riverview Avenue
Dayton, OH 45406
513-228-0181
- **POSTEN Design Systems**
610 Sixteenth Street
Oakland, CA 94612
415-832-3592
- **R. C. Schend & Associates**
4706 Harrison Road
Kenosha, WI 53142
414-694-7070
- **Shilstone Software Company**
8577 Manderville
Dallas, TX 75231
214-361-9681
- **Zeiler-Pennock, Inc.**
2727 Bryant Street, #600
Denver, CO 80211
303-455-3322

The original survey concentrated on software with specific precast prestressed technical applications, but many associated with the industry benefit from a wider range of technical and management programs. The software committee wants to know what you are using in more general software, and how you are using it. From finite element and stiffness analysis to spreadsheets, wordprocessors, and data base management, we need computer users to share their experience, preferences and programs. Send your comments to:

Ned M. Cleland, Chairman
PCI Computer Software Committee
Blue Ridge Design, Inc.
P.O. Box 2220
Winchester, VA 22601

SOFTWARE FOR THE PRESTRESSED INDUSTRY

SOFTWARE VENDORS

Allen Engineering, Inc.
 Consulting Engineers Group
 ECOM Associates, Inc.
 Interactive Designs Corp.
 JAAM Engineering
 Jacques & Aswad, Inc.
 LEAP Software, Inc.
 James J. Mallett
 Edward D. Perry
 R. C. Schend
 Shilstone Software, Inc.
 Zeiler-Pennock, Inc.

APPLICATIONS

Engineering Design:

Concrete Beam Design:

- Continuous prestressed (AASHTO)
- Prestressed load tables
- Reinforced (ACI)
- Simple span prestressed (AASHTO)
- Simple span prestressed (ACI)

Walls & Columns:

- Architectural panel design
- Prestressed wall & column design
- Reinforced wall & column design

Analysis:

- Continuous beam analysis
- Frame analysis
- Analysis for lateral loads

Miscellaneous:

- Connection design
- Section property analysis
- Special precast utilities

Materials Testing/Design:

- Concrete mix design
- Concrete testing

Plant & Bed scheduling:

Precast/Prestressed Drafting:

HARDWARE

- AT & T, Olivetti M24, Xerox 6060
- HP (80, 200, 300)
- IBM PC (PC-DOS/MS-DOS)
- IBM PC (Unix)
- Sun Microsystems
- Tandy (TRS-80, 3, 4)
- Wang 2200

SUPPORT

- Demonstration package
- Source code
- Tutorials
- Hand examples
- Telephone support
- Training
- Updates

Comments: A — Nonprestressed reinforcement.

B — May require additional hardware (e.g., plotter, graphics board, etc.)

C — IBM PC or 100 percent compatible.