

## Total Optimization Plant Simulation A Dynamic Event-Based Simulation Tool

The following is a response to a question recently posed by members of our sales force.

### **1 How is K-TOPS® different from other programs?**

Over the years our engineers have been challenged to optimize conceptual designs on a routine basis. Initially, we searched among the many programs available in industry to find one that could “hit the ground running” and deliver critical answers to capacity problems easily and fast. We were unable to find a software package that was easily adaptable to a wide range of processes and could deliver critical capacity answers quickly without over-involved data entry detail. As a result, our engineers began to develop a system themselves to suit this fast paced design environment. The result is K-TOPS®. K-TOPS is designed to deliver answers to critical process capacity optimization problems quickly. K-TOPS requires very little data to represent a process and can easily scale to include as much detail required to solve continued capacity queries. Rapid data entry and modification is accomplished using standard spreadsheet “copy” and “paste” techniques. The design of K-TOPS is generic and can be applied to any process without the addition of extra specialty software modules. Specific decision making routines can be inserted at any “clock event” during the simulation thereby allowing engineers to dynamically represent any unique process operating philosophy. At any point in time, the simulator is aware of all equipment statuses, product inventory levels, time of day/week/year, operating shifts, phases of the moon, tides, etc. and can use this information to simulate unique operating philosophies.

In short, K-TOPS® is fast, flexible, and unbounded.

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