# IMPAX Technologies

## IMPAX/SK 100 Monitoring Module
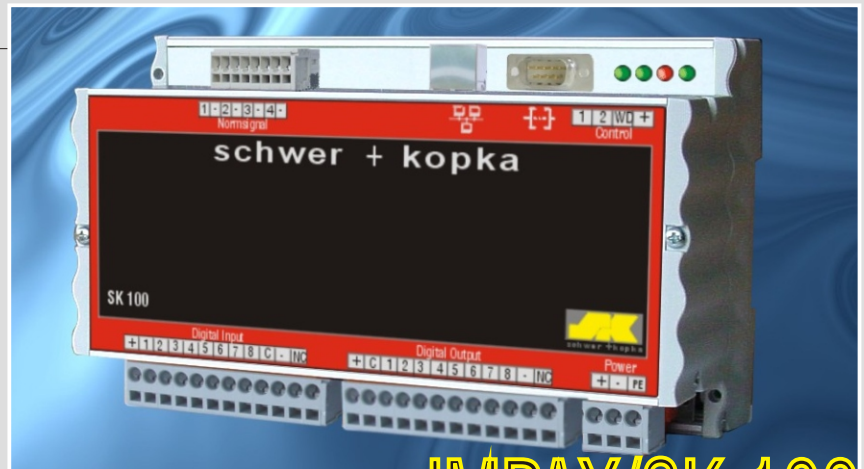
Self contained, powerful satellite monitoring module for all cold forming machines such as:

• Coldheaders
• Multi Die Coldformers
• Thread Rollers
• Trimmers
• Tappers
• Stamping Presses
  or
• Any Repeatable Process

A single IMPAX/SK 100 module is capable of monitoring up to 4 channels with full enveloping capabilities at speeds of more than 2000 cycles per minute.

The IMPAX/SK 100 can be setup to run as a stand-alone "black box" monitor. It can also be linked to a touch-screen viewing and operating terminal. A mobile PDA-based viewing terminal is also available.

Several IMPAX/SK 100 modules can be networked to a single viewing and operating terminal which allows the operator to run and control several machines from the same console (multi-machine monitoring system)

IMPAX/SK Technologies
1405 Bernard Drive, Unit B-2
Addison, Illinois 60101
Tel (630) 916-7777
Fax (630) 916-7832
Toll Free (800) 272-4784
E-mail: impaxptg@aol.com
Web: www.impaxptg.com

### Monitoring Functions:

The system offers all the innovative monitoring functions developed for our more enhanced systems (please note that some of the functions mentioned are optional:

• Enveloping Technology
• Profiled Envelopes
• Automatic setting of timing window - SKAutomaster
• Automatic setting of envelope width - SKFuzzymaster
• SKWartmaster
• Trend Monitoring
• Q-factor Consistency Control
• Parts Counting
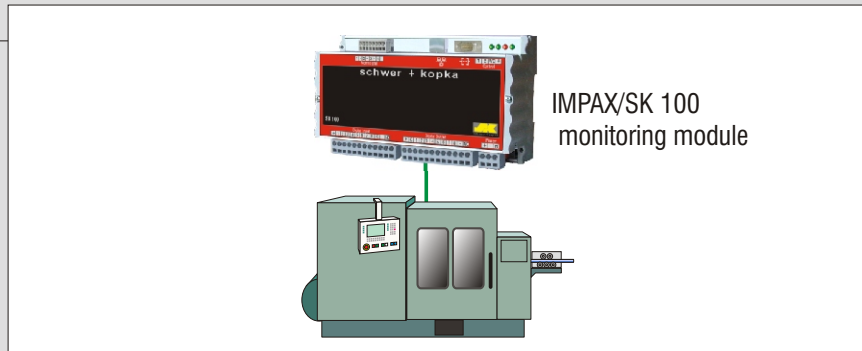• Sorting/Containment Control
• Error Logging

### Technical Data:

• 4 analog inputs (piezo sensors, strain gages, motor load sensors, etc.)
• 8 digital inputs (24V/10mA) for timing signal or crank angle decoder
• 8 digital outputs (24V/50mA) for machine stop, sort pulse, etc.
• Interfaces: Ethernet (optional W-LAN), RS 232, optional Bluetooth
• Power supply 24VDC/ 0,25A
• Dimensions 188W x 95H x 73D (mm), weight 0,6 kg,
• Enclosure designed for mounting on DIN-trail
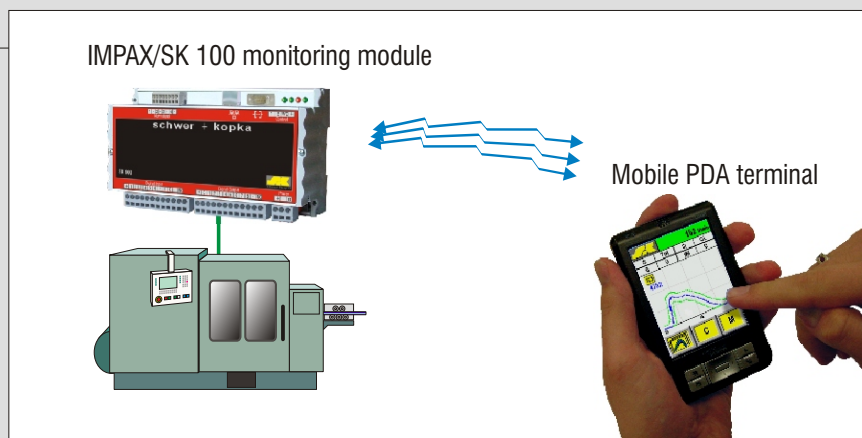
## IMPAX/SK 100 "Black Box"

A single IMPAX/SK 100 monitoring module is connected to a machine. The intelligent software uses fully automatic routines to safeguard the machine and to stop the process if any of the control limits are exceeded.
There is no need for operator intervention if automatic parameters are loaded into the unit.

IMPAX/SK 100 monitoring module

## IMPAX/SK 100 & Mobile Terminal

Add a PDA terminal to obtain a mobile view into the process. The PDA-terminal connects "wireless" to the nearest IMPAX/SK 100 machine monitor and allows the user to view force curves and part counts, and to set envelope parameters and target job counts.

The PDA can even serve as a remote group terminal for up to 4 machines.

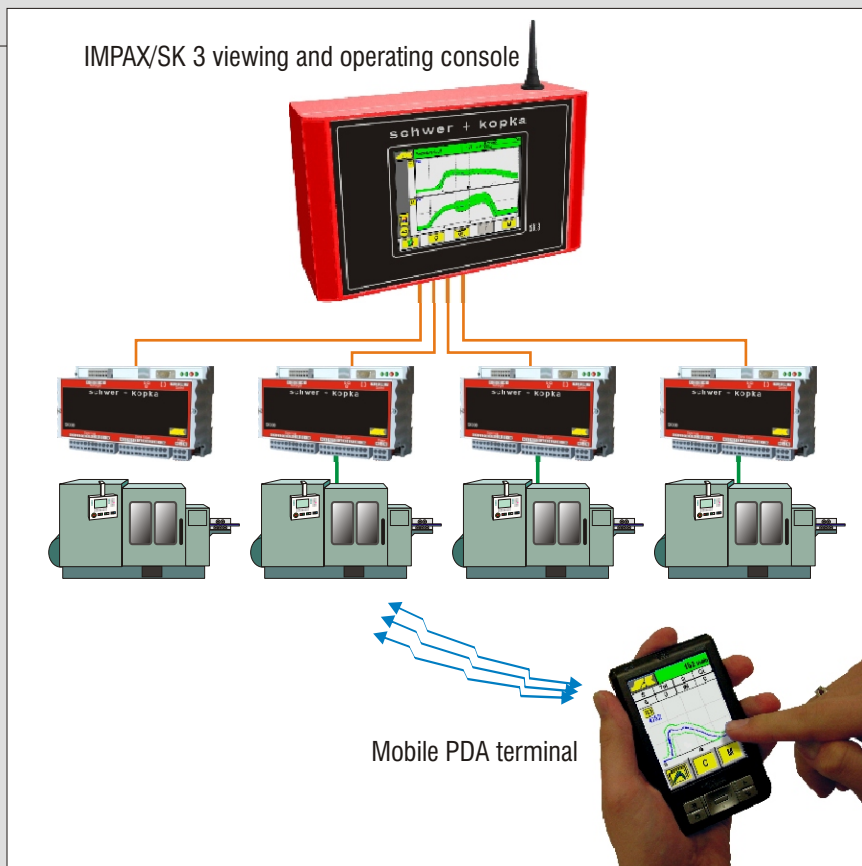IMPAX/SK 100 monitoring module

Mobile PDA terminal

## Multi-Machine Monitoring

Network several IMPAX/SK 100 modules from different machines to a central IMPAX/SK 3 viewing and operating console which acts as a stationary group terminal. The network can be installed using either Ethernet cables or an optional wireless LAN.

The group terminal gives access to each machine allowing the user to view and set all process data such as force curves, envelopes, trend limits, part counts, etc.

If desired, a mobile PDA terminal can be added to view process data while working on the machine.

IMPAX/SK 3 viewing and operating console

Mobile PDA terminal