

Wintriss Controls Group

PROCAM® 1500

WINTRISS® PROGRAMMABLE CAM

Set press equipment timing easily and improve productivity with the **ProCam 1500**, the Wintriss Programmable Cam



ProCam 1500 is Fast, Accurate and Safe

APPLICATIONS

PART BLOW-OFF

FEED ADVANCE AND PILOT RELEASE CONTROL

LUBRICATION

TRANSFER TIMING

CONVEYOR CONTROL

AUXILIARY CYLINDER CONTROL

LOADER/UNLOADER TIMING

DIE PROTECTION CONTROL SIGNALS

Metal stamping presses need a timing device to control all other equipment that must operate in sync with the press.

Like most metal stampers, you probably use a rotary limit switch mounted high on the press to control feed, blow-off, pilot release and other equipment.

If you're using a rotary limit switch now, you already know the drawbacks. Every time you need to make or change a setting, everything stops while someone climbs a ladder, removes a cover, and painstakingly makes the necessary adjustments. It's slow, inefficient, inaccurate, and potentially unsafe.

And when production is the name of the game, that downtime translates to lost dollars.

PROCAM 1500 IS EASY TO USE

You set timing for press equipment simply by keying in on and off times on its simple-to-use keyboard. The display prompts the operator on what to do next. No complicated programming instructions to learn - ProCam 1500 speaks your language.

EIGHT INDEPENDENTLY ADJUSTABLE CHANNELS

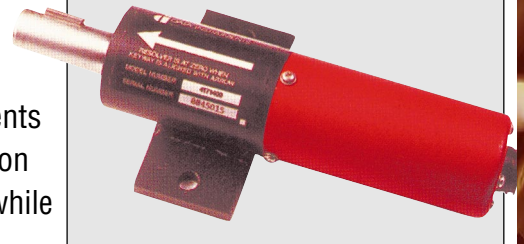
Timing is set on up to 8 channels for feed, pilot release, air blow-off, lubricator and other press equipment. And adjustments can be made on any channel while the press is running.

SETUP MEMORY

Capable of storing on-off settings for *up to 200 dies*, you just recall the appropriate setup when you use the die again. All timing is set instantly and you're ready to run the press again, drastically cutting setup time. Settings can also be locked to prevent unauthorized changes.

ACCURATE AND STURDY RESOLVER-BASED MONITORING

Unlike an ordinary limit switch, ProCam 1500 reads and displays the angle of the crankshaft at every point in the stroke using a resolver. The microprocessor reads the resolver position electronically — allowing precise settings accurate to 1°. In fact, you can run your variable speed presses faster because precise timing is so easy to set.



AUTOMATIC SPEED COMPENSATION

ProCam 1500 automatically advances or retards timing for any two channels when press speed is increased or decreased, which can help synchronize feed or other equipment with the press at any speed.

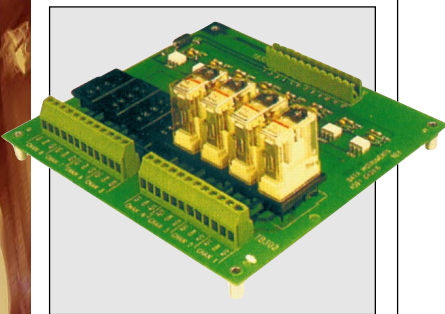
ProCam 1500 Boosts Productivity

MOTION DETECTION & BRAKE MONITORING

Stop and start times are displayed, comparing them to preset limits to monitor brake and clutch wear. The Brake Monitor is also capable of 90° stop-time test which is required to calculate the safety distance.

POWERFUL COUNTING CAPABILITIES

Parts, batches, and total hits-on-a-tool are counted. ProCam 1500 will automatically stop the press when a preset count is reached. The batch counter allows a large run to be broken into smaller batches. When the preset batch count is reached, ProCam 1500 can stop the press, toggle a relay to control parts-out diverters or trigger on a conveyor, take-up reel, or scrap chopper.



CAM OUTPUT ASSEMBLY

OPTIONAL INTERFACES TO PACNET® or SFI™

ProCam 1500 can be networked to either Data Instruments' powerful PACNet, Computerized Press Reporting, or SFI, servo-feed Interface. Running on an IBM PC or compatible, PACNet allows you to monitor production downtime, parts count, press speed and other performance variables for each press. PACNet prints reports automatically and stores data for historic analysis.

Integration of an electronic servofeed is added through SFI. ProCam 1500 used with SFI stores feed length and percent acceleration for each tool, and then downloads them to the servofeed after each tool change. SFI is available for many popular models of servofeeds. Contact your local Wintriss representative or Honeywell/Wintriss Controls Group for a complete list.

TOOL #4400 PART BLOW OFF
 USE THE ANGLE KEYS TO SET THE TIMING.
 PRESS RESET WHEN DONE.

ON	175°
OFF	225°

0° 90° 180° 270° 360°

SET CAM CHANNEL

ADVANCE CONST. 1= **35** DEG/100 SPM
 ADVANCE CONST. 2= 40 DEG/100 SPM
 SLOW RPM = 30 SPM

YOU CAN RUN PRESS TO ADJUST SETTINGS
 USE CURSOR KEYS TO SELECT, PRESS ENTER TO CHANGE, PRESS RESET WHEN DONE.

SET AUTO ADVANCE

	VALUE (MSEC)	LIMIT (MSEC)
STOP TIME	160	195
START TIME	25	50
STOP ANGLE	80°	

THE LIMITS MAY BE SET IN INITIALIZATION.
 PRESS ENTER TO START 90 DEGREE BRAKE TEST. PRESS RESET WHEN DONE.

SET BRAKE MONITOR

FEATURES

SAVES SETTINGS FOR 200 TOOLS

8 CAM CHANNELS

ALLOWS ON-THE-FLY ADJUSTMENTS

AUTO ADVANCE

BRAKE MONITOR

PARTS, BATCH, AND TOTAL HITS-ON-A-TOOL COUNTERS

LED DISPLAY FOR PRESS SPEED AND CRANK ANGLE

ABLE TO LOCK SETTINGS

OPTIONAL SERVOFEED INTERFACE, SFI

OPTIONAL INTERFACE TO COMPUTERIZED PRESSROOM REPORTING, PACNet.

SPECIFICATIONS

EQUIPMENT	<p>Controller: 10.4" x 11" x 4" (26.4 x 28 x 10.2cm) panel mount configuration</p> <p>Resolver: 0.75" (1.9cm) keyed shaft; rated shaft loading 200 lb axial, 200 lbs radial. Can be shared with up to four resolver based Wintriss controls.</p> <p>Cam Outputs Assembly: 6" x 5.5" x 3" (15.2 x 14 x 7.6cm)</p>
POWER	<p>Input: 120/240 Vac, 50/60 Hz, 25 VA</p>
INPUTS	<p>Resolver chain break detection input Remote reset input Resolver slippage detection input</p>
OUTPUTS	<p>Two monitored emergency stop circuits and a top stop circuit.</p> <p>Rating: 0-5A resistive @ 240V max (AC or DC).</p> <p>Cam output types: Relay, SPDT, 0-3A resistive @ 240V DC solid state, SPST, 2A @ 5-60 Vdc; AC solid state, SPST, 1A @ 70-250 Vac.</p>
OPERATING SPEED	<p>7-800 spm (optional 14-1,600 spm @ ± 1 1/3° accuracy)</p>
MEMORY	<p>200 tool numbers with built-in battery backup</p>
ACCURACY	<p>$\pm 2/3^\circ$ (± 1 1/3° for high speed version)</p>
COUNTERS	<p>Presetable 7-digit parts counter Presetable 7-digit batch counter 7-digit hits counter keeps track of the number of hits since tool maintenance</p>
DISPLAYS	<p>8 line x 40 character LCD; 3-digit LED readout, displays spm when press running, crank angle when press stopped.</p>
OPTIONS	<p>Enclosure for the Controller: 12" x 11.5" x 4.5" (30.5 x 29.2 x 11.4cm) NEMA 12, shock mounted</p> <p>Enclosure for Cam Outputs Assembly: 10" x 8" x 3.5" (25.4 x 20.3 x 8.9cm), NEMA 12, shock mounted</p> <p>RS232/RS485 Output enabled by: Firmware to connect ProCam 1500 to Data Instruments PACNet® Computerized Pressroom Reporting network.</p> <p>or</p> <p>Firmware to connect ProCam 1500 to Data Instruments RSR™, Remote Storage and Retrieval software for setups.</p> <p>or</p> <p>Firmware to connect ProCam 1500 to Data Instruments SFI, servofeed Interface for electronic/digital servofeed integration</p>



Honeywell

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ABOUT OUR COMPANY

The Wintriss Controls Group is a division of Honeywell, Inc.

We were among the first U.S. companies to achieve ISO9001 approval based on continuing audits of our company-wide quality management systems.

Wintriss supplies automation and safety controls for the metal stamping and forming industries, including SmartPAC® press automation controls; die protection systems, safety light curtains, solid-state clutch/brake controls, load analyzers for machine and tool protection; and optical, proximity, and displacement sensors to monitor process conditions.

We're committed to meeting the needs of our customers with innovative engineering, rugged design and construction, reliable performance and continuing support.

If you'd like to learn more from the professionals in Press Automation, call us at **1-800-586-8324**.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.