

INDUSTRIAL  
FILM PROCESSOR  
**FIP**  
**7000**  
NDT



# The 5-minute processor that's the industry leader in conserving energy and reducing noise.

The FIP7000 offers superior image quality and increased work efficiency. It's the most advanced large-sized automatic industrial x-ray film processor available.

The Fuji Industrial X-ray Processing System (the FIP7000 combined with Fuji Industrial X-ray Film and Fuji Processing Chemicals) processes consistently high-quality images – from developing to drying – in just 5 minutes. Of course, it can also be used for conventional 11-minute processing. Plus, you can choose from 6 different speed combinations by DIP switch selection.

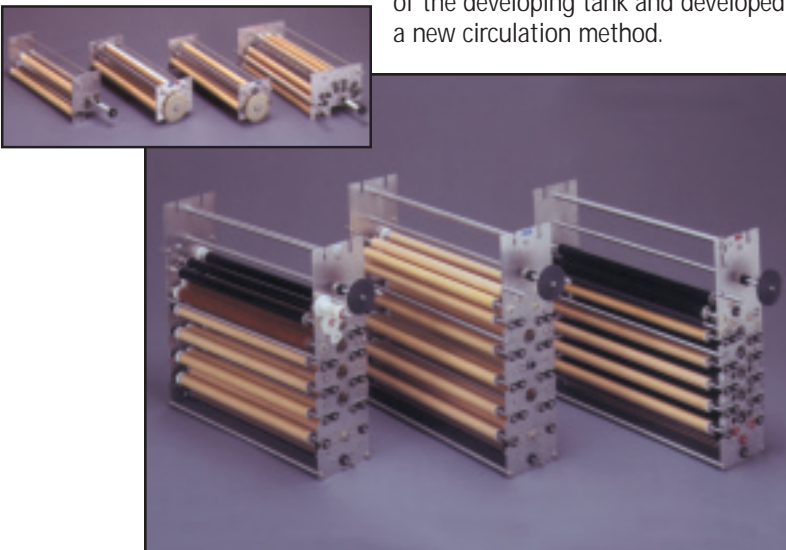
Through innovative technology, the FIP7000 quickly and quietly processes film in an energy efficient manner.

Replenishment rates and processing conditions can be set right at the control panel.



### Processing mechanism improves image quality

Every detail of the FIP7000 is designed to deliver high-quality radiographs. The processing racks are constructed of high-grade stainless steel and a special plastic composite to resist chemical corrosion. We've made the FIP7000's developing solution extremely stable. Plus, we've increased the capacity of the developing tank and developed a new circulation method.



### Auto-save feature conserves energy

When film is not being processed, the auto-save mechanism automatically performs the rinsing and drying processes, which reduces water and electricity expenses.

### Low-noise drying mechanism

We've designed a new fan that reduces operating noise to an extremely quiet 56 dB. Compare that to conventional automatic processors. Plus, our air knife blasting method speeds up the drying process while reducing power costs.

### IC circuitry creates a consistent finish

All processing is powered by an electronic controller, so you get a high-quality finish every time.

### A display panel designed for easy and convenient operation

The display panel is conveniently located in the front of the FIP7000, so it can be reached easily. And processing and replenishing rates can now be automatically adjusted right from the panel. One-touch operating switches add to efficiency and various indicator lamps make it easier to see the control panel. As temperatures of the developer, fixer and drying air reach their set levels, the READY lamp also lights on the darkroom side, making it easy to see when the FIP7000 is ready to begin operation.

The FIP7000's new technology allows you to monitor all processor settings and parameters, as well as record your

film/chemistry usage. It even turns itself on and off each work day at specified times, so it's always ready to use. No more downtime waiting for your processor to warm up.

### Detection unit automatically controls the processing stages

As film is inserted into the processor and photoelectrically identified, the detection unit automatically refills the developer and fixer tanks and starts the drying fan and heater. When



the film is entirely inserted, a buzzer sounds and the auto-save mechanism continues with its specified operations.

### Fuji Auto Feeder IX (Optional)

Simply mount the feeder on the FIP7000 for convenient, automatic film insertion.

### Industrial X-ray Film and Processing Chemicals

#### • Film

We offer eight types of high-quality, high-sensitivity film so you can use the FIP7000 in a wide range of fields. Choose the film that's best suited for the application, the object to be filmed and the x-ray source:

1x20	1x50
1x25	1x80
1x29	1x100
1x59	1x150

#### • Processing Chemicals

Fuji processing chemicals are best suited for use with the FIP7000 due to their clean-running nature.

### Hot Water Panel (Optional)

This panel is mounted with a mixing valve, rinsing filter and flow gauge.

## Specifications:

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Type:	Continuous roller-feeding type.
Processing speed:	5 or 11 minutes from development to drying using film with maximum width of 17 inches. Up to 6 speed combinations to choose from by DIP switch selection.
Film size:	Minimum length of 6 inches.
Processing capacity: (Simultaneous 4-sheet processing)	400 sheets/hour for 5-minute processing using a 3-1/2 inch x 10 inch film. 200 sheets/hour for 11-minute processing using a 3-1/2 inch x 10 inch film.
Tank capacity:	Developer = 30 liters (8 gallons) Fixer = 24 liters (6-1/2 gallons) Rinse water = 22.5 liters (6 gallons)
Rinse water temperature:	31°C (87.8°F)
Rinse water volume:	10 liters/min. or more (when processing film)
Temperature control:	
Developer:	A constant temperature is automatically maintained by a heat converter (1000W heater/cooling water) and thermistor; the temperature is displayed at the digital display.
Fixer:	A constant temperature is automatically maintained by a heat converter (1000W heater/cooling water) and thermistor.
Drying air:	The ON/OFF status of the heater (2250W) is controlled by a thermistor so that the heater runs continuously at the set temperature only while film is being processed.
Rinse water:	The mixing valve mixes hot and cold water to maintain a constant temperature.
Circulation mechanism:	The developer and fixer are continuously stirred by the circulation pump to maintain a uniform mixture of the processing fluids. During circulation, the developer passes through a filter.
Replenishment mechanism:	Film detection by a photoelectric unit activates the replenisher pump for automatic replenishment. The replenishment capacity can be arbitrarily set using an adjustment knob.
Drying mechanism:	A warm-air drying method which employs a sirocco fan and slit pipes.
Safety circuitry:	Developer & fixer overheat-prevention circuit. Circuit breaker formed by a safety thermostat (45°C/113°F). Protection against overheating during drying. Three thermistors (150°C/302°F).
Materials:	High-grade stainless steel and special plastic.
Power supply:	1-phase, 2-wire AC 200/208/220/230/240 V, 50/60 Hz 30A.
External dimensions:	Length = 802 mm (31.6 inches) [1,165 mm (45.9 inches) including the film insertion table and drying cover] Width = 800 mm (31.5 inches)      Height = 1,200 mm (47.2 inches)
Weight:	Main unit only = 314 kg (648 lb); with processing chemicals = 390 kg (816 lb)
Accessories:	Manual handle, stirring bars, gauge cylinder for replenishment, constant flow valve, rack tray, anti-splatter cover, rinsing filter element, developing filter element (spare), tools/repair parts and parts storage box.
Options:	Fuji Auto Feeder IX, stand for Auto Feeder, hot water panel, rack hoist.

Specifications are subject to change without notice.

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