

SuperMax ECN-2

High-Capacity Color Film Processor With HARTS™ Plus

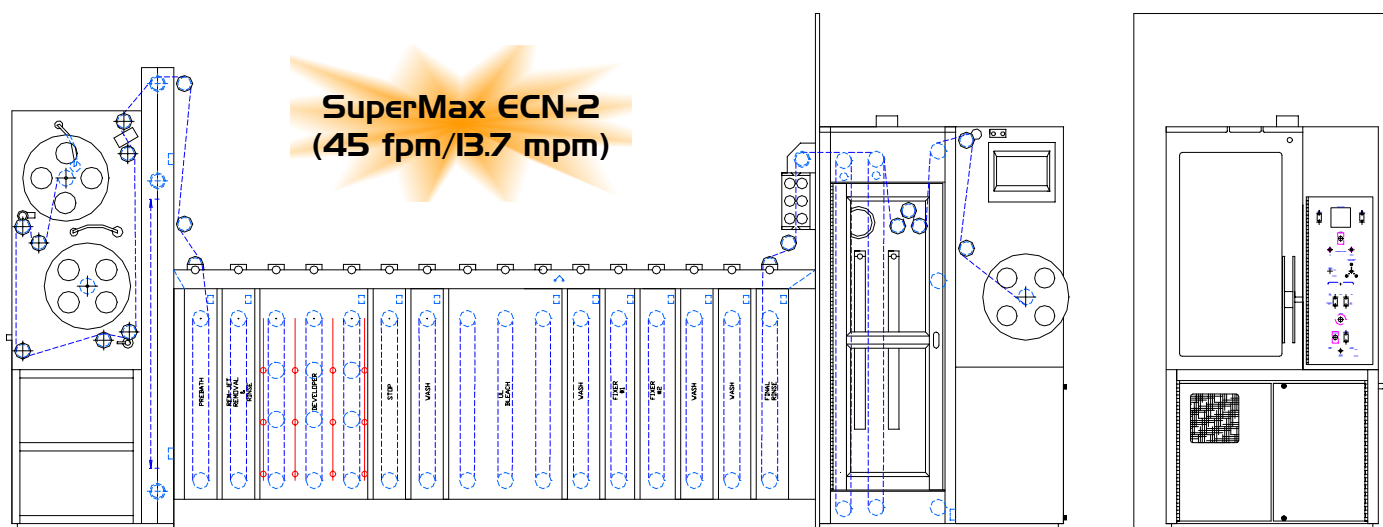
Houston Fearless International

Leading-Edge Technology, 60 Years' Experience. . .

"The Pioneer in Film Processing!" - Houston Fearless 76

Based upon 60 years of industry experience and customer feedback, **Houston Fearless 76** has developed a state-of-the-art film processor designed to significantly improve operation and efficiency of high-capacity film processing labs. Not only will **SuperMax** deliver excellent film processing quality with operational and maintenance ease, but it will enable you to manage your film processing operation more effectively than before. **SuperMax ECN-2** includes:

- Individual Roll Film Footage Counter
- **TensionMaster™** Film Transport System
- pH Sensors for Consistent Quality Processing
- Variable Speed
- Submerged Top Rollers for Reduced Chemical Oxidation
- **HF QuickRack System** Maximizes Operational Efficiency
- Angle Gear Drive Instead of Chain for Low Maintenance & High Reliability
- **HARTS™ Plus (HF Automatic Replenishment and Temperature-control System) for Processor Control, Monitoring, and Parameter Data Collection**
- Modern Design and Manufacturing Processes = Competitive Price!



**Improve Your Lab Operations and Quality Today!
To Learn More, Turn the Page! —>**

Houston Fearless International — A Division of Houston Fearless 76, Inc.

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Toll Free (800) 421-5001 • www.houstonfearless.com • hfi@houstonfearless.com • An ISO 9000 Compliant Company

01/19/2000

Submerged Rollers



Drybox with Hygrometer

- Greatly reduces developer oxidation resulting in sharper, cleaner images and longer chemical life
- Cleaner processor operation without the need for splash guards



Submerged Rollers

QuickRack System with TensionMaster™

“QuickRack enables the operator to quickly ... return the machine back to operation.”

- Reduces machine down time. When necessary, QuickRack enables the operator to quickly remove a rack, install a spare pre-threaded rack, splice it, and return the machine back to operation.
- TensionMaster™ film transport system maintains smooth film drive throughout the wet sections



QuickRack w/TensionMaster

Adjustable Demand Drive

- Adjustable demand drive without use of spring bushings results in significant maintenance and parts replacement reduction
- All rollers equipped with ball bearings which last much longer than fragile spring bushings

SHAFT & ANGLE GEAR DRIVE

- Shaft and angle gear drive instead of chain results in major savings on maintenance by eliminating chain adjustments and lubrication
- Prevents drive roller “loping” at high speeds

Shaft & Angle
Gear Drive



Easily Operated
Load End

pH Monitoring for Consistent Quality Processing

- pH monitoring enables operators to maintain chemical characteristics to assure constant quality processing
- Can prevent contamination or other problems
- pH data displayed and stored in **HARTS™** Plus system (See page 4 for more **HARTS™** Plus details)

“HARTS™
*Plus ...
reduces
manual
intensive
monitoring and
chances for
human errors.”*

Advanced Manufacturing

- Houston Fearless 76 utilizes modern manufacturing methods to efficiently produce designs that are robust, reliable, and easy to manufacture. With our 60 years of industry-recognized experience, this combination creates superb quality products which results in superior customer satisfaction.



3-Way Rotary Buffer

HARTS™ PLUS

HARTS™ Plus now enables the high-production film labs to effectively manage their processing operations and automate quality assurance information. This reduces manual intensive monitoring and chances for human errors. The HARTS™ Plus:



HARTS™ PLUS Touch-Screen Display & Control

- Controls developer and fix temperatures within ± 0.2 deg F
- Controls dry box temperature
- Touch-screen Display/Control & Seven-Day Timer
- Data download capability to your PC
- Provides under-temp and over-temp audible and visual alarms
- Film/leader sensing to prevent wasting chemistry for leader
- Monitors chemical tank levels
- Senses recirculation to ensure proper flow through recirc/turb system
- Tracks processing information by job number and records developer and fix temp, developer and fix pH, machine speed, dry box temperature and film footage.

Specifications

Film Type/Process:	ECN-2 Color Negative	
Film Sizes:	35 mm	
Film Speed (Adjustable):	45 fpm (13.7 meters/min)	
Construction:	316 Stainless Steel & Titanium	
Power:	208 VAC, 3 Phase, 30 Amps 208 VAC, 1 Phase, 70 Amps	
Water/Drain:	20 gpm @ 15 psi (76 liter/min @ 1.1 kg/cm ²) / 4 in. (10 cm) Floor Drain	
Dimensions:	Width: 195 in (4953 mm) Depth: 35 3/8 in (899 mm) Height: 86 in (2184 mm)	
Dryer:	Full Impingement Heating with Filtered Air & Internal Hygrometer	
Load/Take-Up:	2000 ft. Reel (Thin & Standard Film)	
Process Sequence:	Capacity in ft/gal (m/liters)	
Load Elevator	170/-	(51.8/-)
Pre-Bath	7.5/22	(2.3/83)
Rem-Jet Removal	11.5/-	(3.5/-)
Developer (Recirculation/Filtered/Turbulation)	135/66	(41.1/250)
Stop (Recirculation/Filtered)	22.5/22	(6.9/83)
Wash	22.5/22	(6.9/83)
UL Bleach (Recirculation/Filtered)	135/66	(41.1/250)
Wash	22.5/22	(6.9/83)
Fixer – 2 Tanks (Recirculation/Filtered)	90/22	(27.4/83)
Wash – 2 Tanks (Countercurrent)	45/44	(13.7/167)
Final Rinse	7.5/22	(2.3/83)
Dryer/Take-Up Elevator	90/-	(27.4/-)

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