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BSF Hydra Clean

Film Cleaner



The BSF Hydra Clean film cleaner is the perfect machine for any Postproduction, Film Lab, Archive Facility, Distribution Company or even Cinema chain that needs to clean film effectively and economically, and in an environmentally conscious manner.

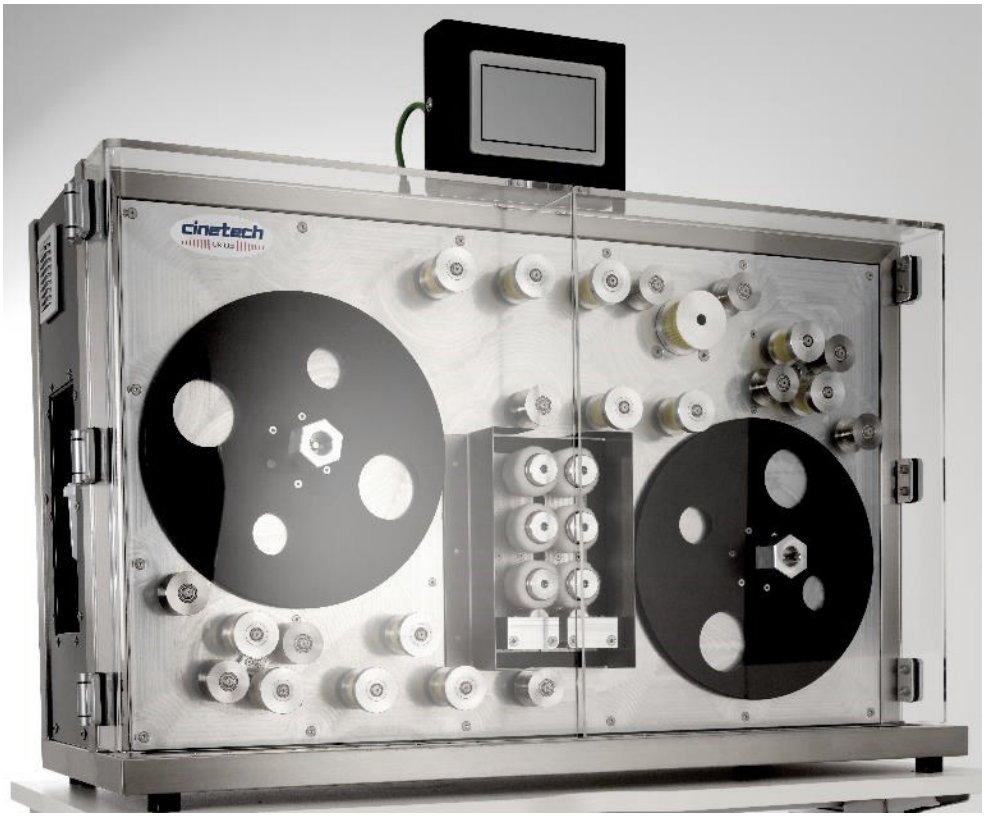
The **BSF Hydra Clean** film cleaner operates as a non-immersion cleaning system utilizing PTR rollers and sonically agitated soft touch buffers that are moistened with Hydro naphtha (Isopar® G) cleaning solvent.

The **BSF Hydra Clean** film cleaner utilizes intelligent software that constantly monitors reel sizes, motor speed, and torque using predictive models to ensure a consistent, gentle, and stable film transport and uniform film winding. No need for laser or external reel measuring sensors.

The touch screen interface is designed to be used by any level of user, regardless of experience. The interface also shows cleaning solvent temperature, solvent application rate, cleaning buffer agitation rate and footage.

The operating position of Cell and Emulsion buffers is electronically adjusted via the touchscreen interface and offer the unique ability to apply variable cleaning pressure on either the cell or the emulsion, or on the film overall — an industry first innovation for film cleaners to ensure the highest possible film cleaning results.

The film cleaner is equipped with an automatic safety feature that triggers in the event of a film break or any other irregularity. When triggered, the system initiates an immediate halt in its operation and displays a notification on the screen to alert the operator or user of the issue. This integrated safety feature comprehensively mitigates the risk of film damage.



In another industry first, our film cleaner has the capability to adjust film reel tension electronically via the touchscreen to ensure the safe cleaning of even the most delicate of archive films.

- Buffer speed and the cleaning liquid volume are both electronically adjustable via the touch screen interface.
- The machine has been designed with ease of maintenance and reliability in mind. No complicated filters or refrigeration systems and only basic tools are required for preventative maintenance.
- Consumables consist of readily available industry standard PTR rollers and soft touch buffers.
- The machine has the capacity to be networked for remote diagnostics, performance troubleshooting and fault finding.
- Our use of cutting edge and readily available components means there are no concerns about parts availability or obsolescence.
- Running speed up to 100ft per minute depending on film type and cleanliness.
- The standard machine is S8mm, 16mm and 35mm compatible with a 65/70mm model available for special order.
- An extremely compact desktop design, measuring 1070W x 820H x 525D mm, with a weight of 70 kg.
- The machine draws 225W/240VA, 2.2A@110V, 1.0A@240V
- Hydro naphtha (Isopar®G) is used as the cleaning solvent. This chemical is rated by Kodak as 'Excellent' for cleaning performance is ozone friendly and very cost effective compared to other film cleaning chemicals.
- Very low solvent consumption - 1L will clean 100,000ft of 35mm film.

Please see table below, showing Naphtha variations in **BOLD**:

NAME:	FP F°	BP C°	Cleaning	Cost	Evap. Rate	COMMENTS:
Perchloroethylene (Perc, Tetrachloroethylene)	None	121	Good	$--	L	Wet gate solvent. Increasing use as a cleaner. TLV=25ppm.
HFE 8200 3M Ethyl Perfluoroisobutyl Ether / Ethyl Perfluorobutyl Ether	None	76	Adequate	$$$	H	Zero ODP, Low GWP OEL=200ppm
HFE 7200 3M Ethyl Perfluoroisobutyl Ether/ Ethyl Perfluorobutyl Ether	None	78	Adequate	$$$	H	No ODP, Low GWP
ISOPROPANOL (2-propanol, secondary propyl alcohol, dimethyl carbinol, petrohol)	53	82	Good	$	H	Flammable. Colourless. Low odour. Gathers water.
Hydrotreated Naphtha (Signal Inc.) Hydrocarbon Type Film Cleaner 40	**104**	**154-177**	**Excellent**	**$**	**L**	**Non-hazardous. Combustible. OEL=300ppm**
Isopar® G Naphtha Exxon Chemical	**111**	**161-176**	**Excellent**	**$-**	**L**	**Non-hazardous. Combustible. OEL=300ppm**
Exxsol® D3135 Naphtha Exxon Chemical	**106**	**158-177**	**Excellent**	**$-**	**L**	**Non-hazardous. Combustible. OEL=300ppm**

Definitions: TLV = threshold limit value, ppm = parts per million, ODP = ozone depletion potential, GWP = global warming potential