Archival
Restoration
Printing Wet
Picture Heads

Reduced pitch printing sprockets for acetate or nitrate based masters with shrinkages between 1.0 – 2.5%

Standard “short pitch” printing sprockets for polyester or acetate based masters with shrinkages under 1%

Continuous Contact Printing for gentle handling of delicate master elements

Continuous Contact Printing for printing safety and efficiency

Total immersion wet continuous contact printing has long been preferred by archival laboratories for restoration printing of delicate master negative or positive print elements. The ability of wet printing to conceal base scratches and other master defects is well known. Smooth, continuous film transport also provides for gentle film handling to protect valuable master film elements that may have become brittle with age, or with damaged perforations, poor splices, or other physical defects. For further protection, BHP Wet Modular Printers also incorporate safety devices to automatically stop the film transport system in the event of film jam within the wet picture printing head or film breakage in another section of the printer.

Old master film elements often suffer from poor storage history and can be badly shrunk. Traditional sprocket designs have limited the ability of continuous contact printers to successfully handle badly shrunk master elements. The master printing sprocket is designed to print from a “short pitch” negative to full pitch raw stock. The perforation pitch of “short pitch” film stock is nominally 0.2% less than that of full or “long pitch” raw stock. Master elements with shrinkages in excess of 1% cannot be reliably printed using these “short pitch” sprockets.

To enable printing from master film elements with greater degrees of shrinkage, BHP now offers a range of wet printing heads with specially designed printing sprockets and associated exposure aperture film guide components. The printing sprockets are manufactured with reduced sprocket tooth pitch to permit safe wet printing of master film elements with shrinkages between 1.0 – 2.5%.

Reduced sprocket pitch wet picture printing heads are currently available in 35mm and 65/70mm formats.

BHP reduced pitch 35mm wet printing heads have been installed at Cinetech, Film Technology Company, United States Library of Congress and Technicolor/CFI.
Archival Restoration Printing Wet Picture Heads

INSTALLATION AND MAINTENANCE SERVICE

BHP service engineers are available to install and service all BHP Printers and accessory equipment on site or at the BHP factory. Quotations for the installation of additional picture printing heads, or other maintenance service will be provided on request.

WARRANTY

The terms and conditions of the BHP one year warranty on all new printers and accessories against defects in materials and workmanship are set forth in the manuals provided with all Printers and major accessories. Copies of that warranty are available on request.

ORDERING INFORMATION

Complete descriptions of each model of the current BHP Modular Continuous Contact Printer range are contained in separate descriptive leaflets. Please contact your BHP representative to discuss your specific printing requirements and the BHP Modular Printer best suited to your needs.

All new BHP Model 6127 and 6131 Wet/Dry Modular Printers are supplied with one Wet Picture Printing Head as standard.

The current range of standard and archival wet printing heads are listed in the following table:

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>Film Format</th>
<th>Short Pitch – 0.8%</th>
<th>1.0% - 2.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35mm</td>
<td>038412</td>
<td>038763</td>
</tr>
<tr>
<td></td>
<td>65mm 65:70</td>
<td>038209</td>
<td>038762</td>
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<tr>
<td></td>
<td>65mm 65:65</td>
<td>038219</td>
<td>038753</td>
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Specifications contained in this leaflet are subject to change without notice.

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