

Be
brilliant

XSYS

Print solid. Stay flexible.

NO WASHING. NO DRYING. NO WAITING.





Thermal like you've never seen before.

XSYS nyloflex® Xpress Thermal Processing System truly delivers on our Better. Faster. Easier to use. promise. Our innovative nyloflex® Xpress system brings several expertly-developed components together, providing BETTER plate quality, FASTER plate production and EASIER handling - a complete thermal solution that is disrupting the market.

nyloflex®
Xpress
Thermal Processing System

Thermal Plate Making Process

nyloflex® Xpress Workflow - combines nyloflex® Xpress components  with your standard equipment 



ThermoFlexX imagers are available in five different sizes. Let us know, and we will help you choose the right imager.



Reduce your electricity consumption - up to 88% thanks to our revolutionary IR preheating assembly.

Lightweight developer rolls will decrease your injury rate, resulting in a safer working environment.



Lightning-fast plate production in 55 minutes from imaging to finished plate

Different plate formulations designed to conquer any printing challenge in the Tag & Label, Flexible Packaging and Paper & Board markets. Available as flat top dot and round top dot plates.



In need of a new exposure unit? Contact your sales representative for more information.



The light finisher unit is included in the nyloflex® Exposure ECLF, available in two different formats.



nyloflex® Xpress System Components

The nyloflex® Xpress Thermal Processing solution will create value to you and reduce your costs.



Reduced operating costs

- + Lower your electricity consumption – **up to 88%** less than competitive thermal systems – with the unique, short wave IR preheating system, cleverly designed for precise control of heating depth; no chiller or vapour handling system is required
- + Zoned lamps ensure maximum energy efficiency



Excellent quality & improved productivity

- + Thermal **flat top dot** and **round top dot** plates optimized to the infrared preheating system
- + Ideal for Tag & Label, Flexible Packaging and Paper & Board markets
- + All plates greatly resist the non-woven impression and exhibit excellent clean out between dots and reverses for printing consistent solids and fine details
- + High quality thermal plates, comparable to solvent quality, in only **55 minutes** from imaging to finishing



Sustainability and health & safety

- + Near elimination of VOCs, low energy usage, and up to **30% less fabric** in our developer rolls will substantially contribute to your sustainability efforts
- + Benefit from a safe work environment with our lightweight developer rolls; out of the box, nyloflex® Developer Rolls **weigh as little as 12 kg**



“We made the decision in favor of the nyloflex® Xpress Thermal Processing System for three reasons: it is **innovative, sustainable and time-saving.**

On the one hand, we want to offer our customers a **high-quality alternative to the existing options, which did not exist before.** On the other hand, we want to provide a more resource-friendly way of working that is not necessarily based on chemistry, so that we can **meet the ecological requirements of our customers and their customers.** In addition, the plates are ready in less than an hour, and we can **deliver on the same day for very short notice jobs.”**

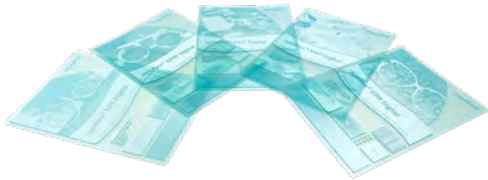
- Mike Theisen, Neufeind GmbH
Managing Director



XSYS

nyloflex® Xpress System Components

We designed an easy-to-use system of several components, to deliver a complete and reliable solution for lightning-fast plate making and high-end flexo printing.



nyloflex® Thermal Printing Plates

Flexo plates are our core expertise. The thermal plates are designed to deliver excellent results as part of the nyloflex® Xpress system.

Flat Top Dot Plates

nyloflex® XVH Digital
nyloflex® XFH Digital

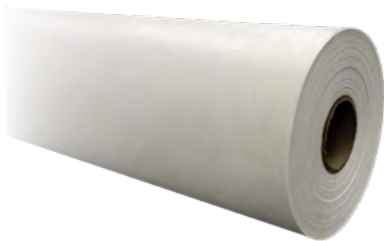
Round Top Dot Plates

nyloflex® XAH Digital
nyloflex® XPH Digital
nyloflex® XPM Digital



nyloflex® Xpress Thermal Processor

A smart thermal plate processing system scalable to process plates of a wide range of sizes with remote service and diagnostics through Wi-Fi connectivity, quick plate processing, very small footprint, and ingenious heating technology



nyloflex® Xpress Developer Roll

Uniquely developed lightweight non-woven providing efficient removal of melted photopolymer. Available in different sizes to minimize waste.

For a more convenient developer roll exchange temperature resistant double sided tapes, like tesa® ACX plus 7063 High Adhesion or 3M TM 4646F can be used.

nyloflex[®] Xpress Thermal Processor

A revolutionary thermal processor for greater production with less maintenance, less downtime and lower operating costs.



Key Features

nyloflex[®] Xpress Thermal Processor

Reduced operating costs - **up to 88%** less than competitive thermal systems, due to revolutionary IR heating technology and zoned lamp cartridges.

The clever design and technology incorporated keeps maintenance to an absolute minimum with normal **uptime of 99.7%**.

Step-by-step, **how-to animations** of all processing steps and maintenance bring new platemakers up to speed in no time.

Available in two sizes with surprisingly **small footprints**:
FIV size for plates up to 1067 mm x 1650 mm
FV size for plates up to 1320 mm x 2032 mm

nyloflex[®] Developer Rolls

Efficient removal of melted polymer

Non-woven fabric structure leads to **smoother floors** and reduces machine cleaning frequency

up to **30% lighter** weight than then other rolls; contributes to your sustainability goals

For a safe work environment, as the lightweight developer rolls **weigh as little as 12 kg**

We offer you the developer rolls in 4 sizes
nyloflex[®] XP32C - 813 mm x 279 m (32.0" x 305 yd.)
nyloflex[®] XP37C - 940 mm x 279 m (37.0" x 305 yd.)
nyloflex[®] XP44C - 1105 mm x 279 m (43.5" x 305 yd.)
nyloflex[®] XP52C - 1321 mm x 837 m (52.0" x 915 yd.)

nyloflex® Xpress Thermal Plate Portfolio

With over five decades of experience in photopolymer plate development and production, we know exactly what our customers expect and require of nyloflex® printing plates.



Flat Top Dot Plates

Inherent flat top dot plates provide the benefits of flat-top dot geometry without adding steps to the workflow.



nyloflex® XVH Digital



The nyloflex® XVH Digital plate is a versatile flat top dot plate designed to serve the narrow web and wide web flexible packaging and label markets. This plate gives perfect results in narrow web printing on all substrates, and in wide web printing of film and non-absorbent substrates if surface screening is applied. The unique chemistry of this plate enables remarkable print quality, especially in combination with high definition screening techniques in highlights and solids to yield subtle detail and vibrant colour.



nyloflex® XFH Digital



The nyloflex® XFH Digital plate is a texturized flat top dot plate designed to serve the wide web flexible packaging market. It provides flawless solids and high solid ink density on films and other non-absorbent substrates – without the need for surface screening.



"We find the plates do a **better job of transferring ink to the substrates** so colors are more saturated, and there is also less plate distortion. The other plates almost had to be babied, handled with extra care. For example, they had to be stored with a foam layer between plates, because they were soft and could easily be dented or damaged. The **plates used in the XSYS system don't require as much special handling.**"

- Jonathan Routhier, Label Tech
Prepress Manager



nyloflex[®] Xpress Thermal Plate Portfolio

Round Top Dot Plates

These round top dot thermal plates are designed to serve the flexible packaging and label markets. They are compatible with flat top exposure for further tailoring to meet specific application needs.



nyloflex[®] XAH Digital



A plate that runs clean and prints clean, nyloflex[®] XAH Digital is equipped with anti-ink fill (AIF) technology that keeps plates cleaner on press, resulting in faster print runs with fewer press stops. It is the plate of choice for wide web flexible packaging printers using solvent-based inks on foil, for narrow web printers using UV inks on foil or paper, particularly those where AIF technology is required to prevent ink fill-in.



nyloflex[®] XPH Digital



The nyloflex[®] XPH Digital plate is ideal for printing with water based and UV-inks while allowing you to print the finest highlights with minimal dot gain.



nyloflex[®] XPM Digital



The nyloflex[®] XPM Digital plate is a medium hard plate for use on the smallest plate cylinders or when printing on rougher substrates, with exceptional performance on paper.

nyloflex® Xpress - a complete thermal solution

Our team will support you to ensure a seamless conversion to the nyloflex® Xpress Thermal System. We will use our excellent technical know-how to help you to further improve your quality standards and to reach your sustainability goals.

nyloflex® Xpress Thermal System - Your Benefits



Improved Productivity



Sustainable



Reduced Operating Costs



Excellent Print Quality



Health & Safety



In-house Platemaking

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Our focus points are green values, environmental friendliness, green PE and sustainability. Products with no plastic are currently important drivers and the importance of these aspects will further grow in the future. With the nyloflex® Xpress Thermal System we can meet these ecological requirements. The installation of the equipment and training of our employees on it by the XSYS team was all going perfect and in a record timeframe”.

- Erno Virkki, Huhtamäki
Production Manager



Please contact us for additional information.

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