

Start

FAST

Finish

FASTER

Drying at the Speed of Light!

adphoS

Substrates, Quality & Speed

BOOSTED

High power, energy efficient and ultra compact adphos-NIR drying technology enables offset quality printing on standard offset papers, at offset production speeds on today's inkjet presses!! This is only possible with the addition of adphosNIR® Drying Technology.



ADPHOS DRYERS IN SCREEN TRUEPRESS 520HD+

The New Screen Truepress 520HD+

The Screen Truepress Jet520HD+, now with adphosNIR drying technology:

- Significantly boosts productivity on many types of papers
- Increases colour gamut
- Reduces both ink and power consumption
- Provides flatter products that convert faster with less jams in post-processing equipment.

Sound too good to be true? Find out for yourself and learn more about adphosNIR® Technology: adphos.com/technology/adphosnir-technology/.

Proven Benefits

1

SIGNIFICANTLY FASTER PRODUCTIONS SPEEDS

3

FLATTER PRINTED PRODUCTS

2

WIDER SUBSTRATE RANGE

4

REDUCTION IN TOTAL ENERGY CONSUMPTION

Modular, Flexible Seamless Integration

DELIVERED

NIRWeb-IV drying systems are modular, ultra-high performance and programmable drying solutions for web-fed applications and are ideal for high speed inkjet drying and the drying, sintering, and curing of conductive or resistive inks, adhesives and other coatings.



ADPHOS NIRWEB-IV ON MCS TK1740-D INKJET PRESS

MCS TK1740-D

The MCS TK1740-D with nano-polymer inks and adphosNIR® Drying Technology allow users to print on:

- High gloss, aqueous coated stocks at fully rated inkjet speeds
- Print on coated label stock with full adhesion without adverse impact to heat-sensitive glues
- Print on uncoated and offset coated stocks to create richer blacks than traditional inkjet

Proven Benefits

- 1 COMPACT DESIGN**
- 2 MODULAR AND SCALABLE DESIGN**
- 3 INTEGRATION FLEXIBILITY**
- 4 SPEEDS UP TO 300 METERS PER MINUTE**
- 5 LOWEST THERMAL STRESS TO SUBSTRATES**

Substrates, Quality & Speed
ENHANCED

Moving to HDNA or just struggling with your production levels? Your HP T-Press can run faster, print on a wider range of substrates, use less energy, have improved print quality and much more...



ADPHOS DRYERS ON HP T230 COLOR INKJET PRESS

HP T200 series with adphosNIR® Drying

Turbocharge your HP Page Wide T200 Series Press with the only HP approved 3rd party drying system. With the placement of the adphosNIR® Drying within the printing arch, you get the shortest time between ink laydown and drying/setting of the ink to the substrate which provides:

- Greater print speed
- Improved print quality
- Flatter substrates
- Improved post processing speeds and more....

Proven Benefits

1 UP TO 2.5X INKJET PRESS SPEEDS

2 FASTER POST PROCESSING SPEEDS WITH LESS PAPER JAMS

3 IMPROVED PRINT GAMUT AND DENSITY

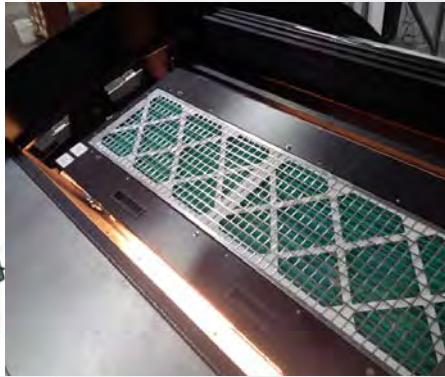
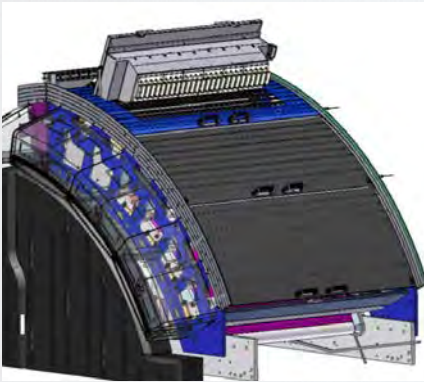
4 SIGNIFICANTLY FLATTER PRODUCT

5 UP TO A 45% IMPROVEMENT IN ENERGY SAVINGS



Ink, Energy & Paper Savings
POSSIBLE

Moving to HDNA or just struggling with your production speeds, ink costs, paper costs or energy consumption, *Your HP T400 series press can run faster, print on a wider range of substrates, use less energy, have improved image density and much more..*



HP T400 series with adphosNIR® Drying

adphos dryers have been driving production in HP T400 series presses for nearly half a decade. More and more customers are realizing the benefits of increased throughput and higher quality output on their HP T400 series presses. Adphos has solutions for mono and process colour presses. Want to know more? Talk to your adphos representative about the available options for HP T400 series presses.

Proven Benefits

- | | |
|---|--|
| <p>1 INCREASED IMAGE DENSITY</p> | <p>3 ENERGY SAVINGS UP TO 60%</p> |
| <p>2 REDUCED BOOK CORRUGATION (WAVE) - PROVIDING FLATTER BOOKS</p> | <p>4 IMPROVED DIMENSIONAL STABILITY</p> |

Optimized Production, Versatility & Energy

OPTIMAL

Built with adphos inside for all pre-coating / post coating & HDNA inkjet drying. Customers of the HP T1100 Page Wide industrial presses can now benefit from all the advantages that adphos delivers.



ADPHOS DRYERS ON HP T1100 INKJET PRESS

HP T1100 inkjet press with adphosNIR® Drying

Using the adphos BoostAir technology & adphos' innovative WAVE (Warm Air Ventilation & Extraction) modules, digital corrugation production is transformed. The adphos WAVE modules integrated into the HP T1100 series presses use enhanced energy saving techniques to provide an additional 25% drying output without an increase in electricity draw. To learn more please contact your local adphos representative.

Proven Benefits

1

PROVEN ADPHOS BOOSTAIR DRYERS FOR INKJET CORRUGATED APPLICATIONS

2

ADPHOS-WAVE SYSTEM PROVIDES 20% MORE DRYING EFFICIENCY WITHOUT THE ADDITIONAL POWER CONSUMPTION

06 ——— 06

INCA JETLINER 1600

Gamut, Ink Usage & Power
ACHIEVED

adphos partnered with INCA digital, now Screen-IJC, to produce a 300 m/pm, 1.6 meter wide inkjet corrugated liner press with adphosNIR® interstation and final drying capabilities.



ADPHOS DRYERS ON INCA JETLINER TECHNOLOGY DEMONSTRATOR COLOR INKJET PRESS

Ground breaking technology demonstrator

Using the proven adphosNIR® and BoostAir technology & adphos interstation drying, the INCA JetLiner is able to achieve exceptional speeds with high ink coverage on a wide range of substrates. The adphosNIR® dried digital varnish provides truly amazing textures and finishes.

Proven Benefits

- 1** BALANCED ENERGY AND AIR USAGE FOR EACH COLOUR SEPARATION
- 2** LOWEST POSSIBLE TIME BETWEEN INK LAYDOWN AND DRYING
- 3** EITHER INTERSTATION DRYING/CURING, FINAL DRYING/CURING
- 4** PROVEN ADPHOS BOOSTAIR DRYERS FOR INKJET CORRUGATED APPLICATIONS

Up to
2.5x
*Faster speeds
on your current
inkjet press.*

What would you like to
accomplish with more speed?

Let's start with accepting
more orders without
production bottlenecks.



adphoS

What is the adphos group?

The adphos Group is a family of privately owned companies focused on the development of adphosNIR® technology which dramatically reduces the time and space required for thermal processes and provides quantum leaps forward in efficiencies for our global customers.

What does adphos do?

adphos designs, manufactures, markets, services and supports a wide range of standard and custom drying solutions for our global customers for a wide variety of applications and markets.

Where are the locations?

The adphos Group provides a worldwide network of offices and subsidiaries located in Europe, USA, Japan, China, Taiwan and most major industrialized countries.

Benefits of adphosNIR® Technology:

- **Higher Productivity** through processing in a fraction of the time.
- **High Energy Intensity** without affecting the substrates.
- **Modular and Compact** product designs.
- **Lower Cost of Operation** compared to other technologies.



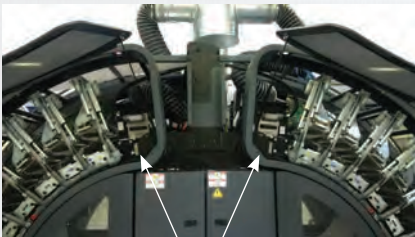
DRYING SOLUTIONS

to enhance your inkjet presses and processes

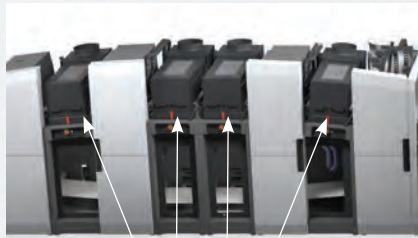
adphos Solutions for Inkjet Presses

- adphos inkjet press solutions are available for **HP T-Series, Kodak, Memjet, OCE, Ricoh, Screen and most other inkjet presses.**
- adphos can even provide a **Return on Investment in under 12 months.**
- Benefits of adphos inkjet press solutions include **Faster Production Speeds, Flatter Finished Products (books, mailpieces, etc), Less Energy Used, Less Ink Used, Less Scrap, Reduced Set-up/Downtime, Use of Higher Gloss and Lower Cost Substrates and Improved Image Quality.**

Applications



adphosNIR® in T230 press



adphosNIR® Kodak Prosper 6000 press



adphosNIR® in Ricoh press



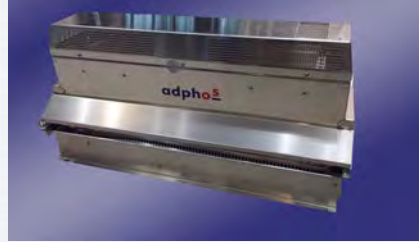
adphosNIR® in T400 press

PRODUCTS & SOLUTIONS

for your inkjet drying applications

NIR126-550

NIR126-550 drying systems for up to 560 mm (22 inch) web and sheet-fed applications are ideal for speeds ≤ 150 m/min (500 fpm) and have a lower acquisition and operating cost compared to other systems.



INTEGRATION

Up to 560 mm (22 inch) web and sheet-fed applications



FLEXIBILITY

Operate several NIR126-550's in parallel for additional drying power



MORE OPTIONS

A wide variety of accessories are available for greater speeds and optimal performance

M-Series

M-Series dryers are compact, high-performance, and programmable drying solutions suitable for sheet-fed and web-fed applications and are ideal for water-based inkjet, adhesives or coatings.



INTEGRATION

Suitable for web and sheet-fed applications



FLEXIBILITY

Compact, one-piece design

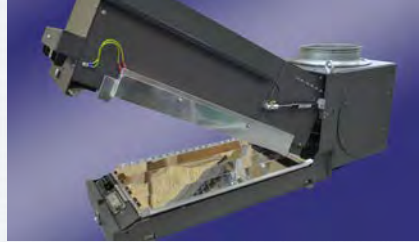


MORE OPTIONS

Programmable to meet nearly any requirement

NIRWeb-IV

NIRWeb-IV inkjet drying systems are a family of compact, high performance drying systems for web-fed applications of any width.



PRODUCTIVITY

Capable of drying at speeds in excess of 900 m/min (3,000fpm)



FLEXIBILITY

Available for standard 500 mm/660 mm/1010 mm (20"/26"/40") and other web widths

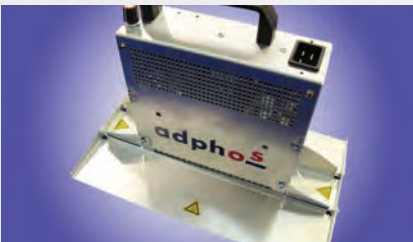


MORE OPTIONS

Programmable, portable, and configurable for almost any application

NIRxx Family

The NIRxx Family are very cost effective, high performance drying systems for water based inkjet, adhesives or coatings. Choose from a variety of standard solutions to fit your unique drying need.



PRODUCTIVITY

Power on demand, reduced air flow and toolless



FLEXIBILITY

Modular, various drying widths, suitable for web or sheet-fed applications



MORE OPTIONS

Reduced operating cost, controllable, and ultra-efficient

1.2µm
short wave

2µm
medium wave

ir

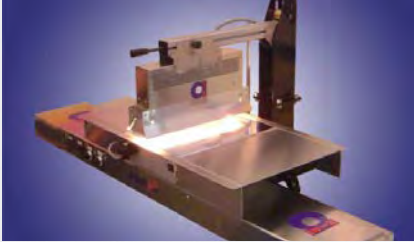
3µm
long wave

PRODUCTS & SOLUTIONS

for your inkjet drying applications

Laboratory Testing Equipment

PBTs (Platten Based Transports) and Mini-Lab transports are companion products for adphos dryers and x-y inkjet plotters and allow for “production” level simulations of drying, sintering and curing in lab environments.



INTEGRATION

Suitable for Printed Electronics concepts to full production



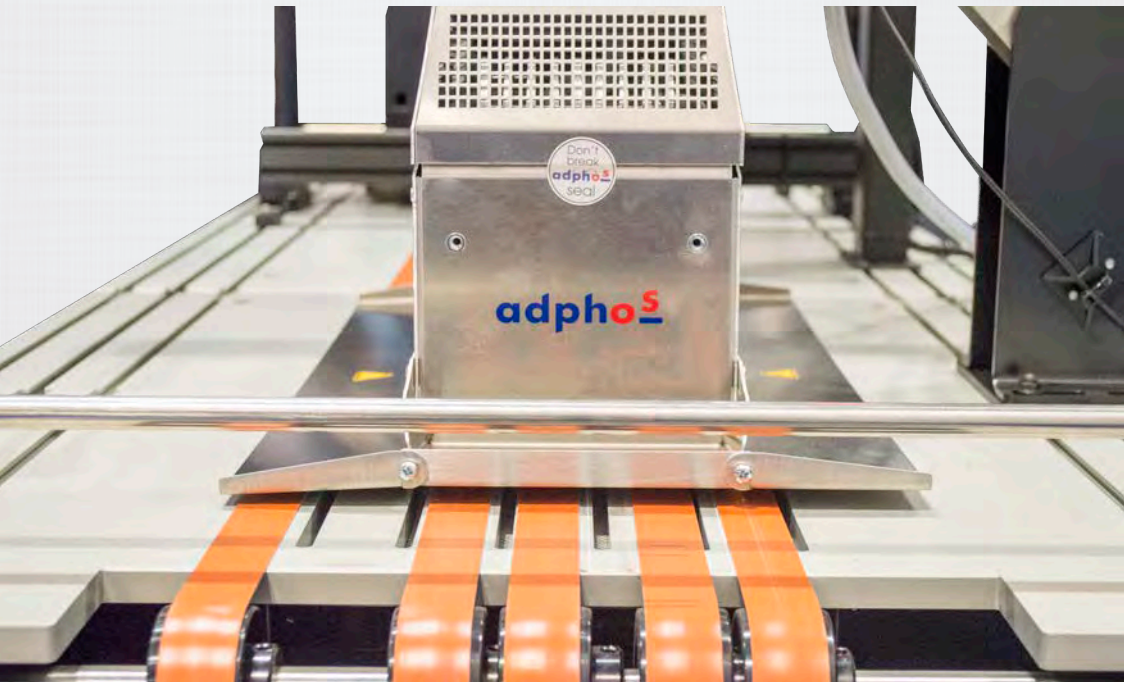
ADAPTABILITY

Open interface to various inkjet heads, wide range of drying, curing and sintering solutions



MORE OPTIONS

Utility, affordable, and high speed transport



TYPICAL APPLICATIONS

for boosting or retrofitting you current press

Current Setup

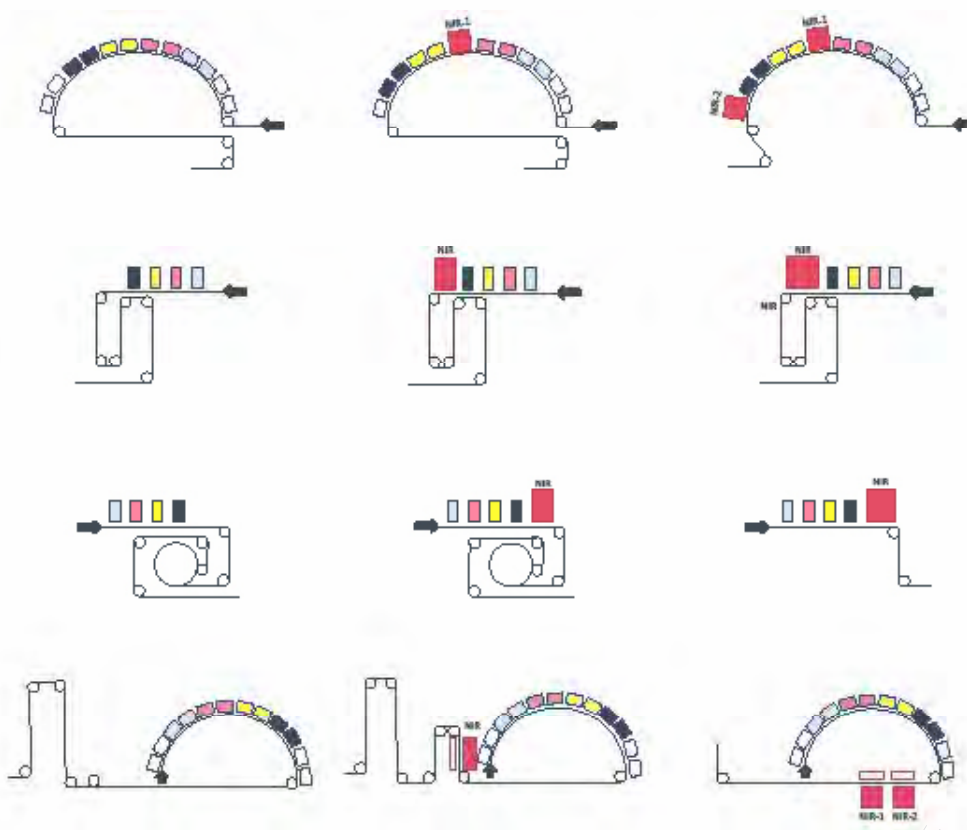
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Booster Setup

.....

Retrofit Setup

.....



Up to

90%

Shrinkage Reduction

Reducing the substrate shrinkage allows for improved front and back registration and flatter products.

HYBRID SOLUTIONS

for your every day needs

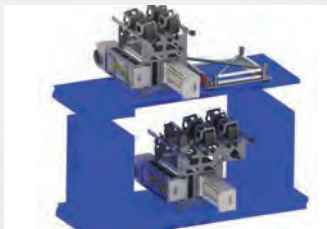
Integrating Inkjet into Web-Fed and Sheet-Fed Presses

- Heidelberg Cut Star
- Müller Martini
- OMET
- Gallus presses
- KBA presses
- Gidue



Tailored Inkjet Integration for Web-Fed and Sheet-Fed

- Web based Modular Tower & Carriage for print head with integrated drying.
- Flexible modular tower design; very simple to highly sophisticated configurations.
- Allows use of wide range of Inkjet heads from different manufactures.
- Options such as web guide, tension control, automated print head positioning, etc.
- Tailored drying or thermal treatment solutions for special papers/coatings (pre/post coat)
- Dry ink faster with less energy onto glossier stocks
- Compact drying modules from 1" up to 13" print width
- Drying systems with integrated air management system from 10" up to 40"
- Solutions "ready to plug in" for end-users and to "OEM kits" for integrators

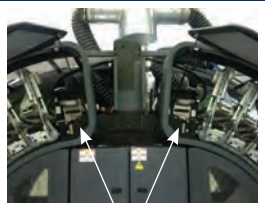


Speed, Consistency and Quality - **DELIVERED**

Your HP T-Press can run faster, print on a wider range of substrates, use less energy, have improved print quality and much more.

HPT-Series Presses

The benefits of adphosNIR® technology have made the adphos Group a worldwide market-leader for drying ink at the speed of light and provides solutions to major inkjet manufacturers and end users. adphos is now collaborating with HP and directly with end users to enable your inkjet press to run faster, print on a wider range of substrates, use less energy, have improved print quality and much more.



adphosNIR® in HP T-2xx Series



adphosNIR® in HP T-3xx Series



adphosNIR® in HP T-4xx Series

Up to

2.5x

Faster Speeds



Significantly flatter products due to a 50% reduction in the "dry out" of the paper.

50%

Reduction in energy costs.

Proven Benefits

- Up to 2.5x Speed Improvements
- Up to 20% Reduction in mono ink consumption
- Up to 50% Energy reduction
- Up to 30% Rub resistance (durability) improvement
- Flatter products due to a 50% reduction in the "dry-out" phase of the paper versus the competitors



REPLY FORM

I am interested in adphosNIR® Technology

We have an actual project regarding:

Please feel free to call us at your earliest convenience.

Also, please send us additional information concerning the application potential in the following business:

FIRST NAME	LAST NAME
DEPARTMENT	POSITION
COMPANY NAME	
COMPANY ADDRESS	
CITY/COUNTRY	POSTCODE
PHONE/FAX	EMAIL

Thank you for returning this form to:

adphos Digital Printing GmbH

Bruckmühler Strasse 27, 83052, Bruckmühl/Germany

Phone: +49 (0) 8061 395-213, Fax: +49 (0) 8061 395-110

adphoS

DRYING AT THE SPEED OF LIGHT

CONTACT US

wherever you are, we will be there

Are you interested in having an application specific evaluation of the benefits and possibilities adphoS^{NIR}® can bring to your company? Contact and let us know below how we can help you finish faster:

More Information

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