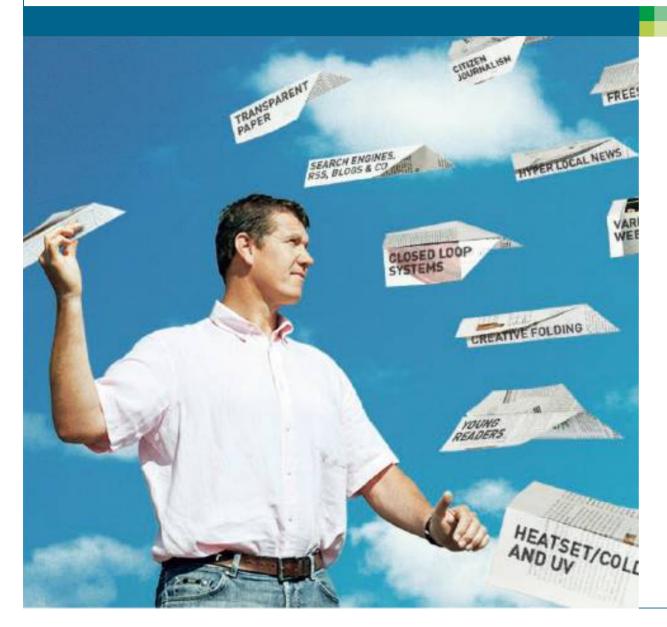
## **Solutions**

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Trino Barnabò Direttore Divisione Rotative

manroland Italia Spa XV Tecnomeeting Roma

## Your and our daily challenges!

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1. Increase revenue



2. Reduce production costs



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#### **Solutions to increase revenue**

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#### **New materials**

- Inks: neon, metallic, scented
- Papers: transparent, colored, high white/upgraded, high grammages

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#### **New folds**

- Flying pages and halfcover
- Plow folds for super panorama and many other creativ options

### Add ons

Card gluers

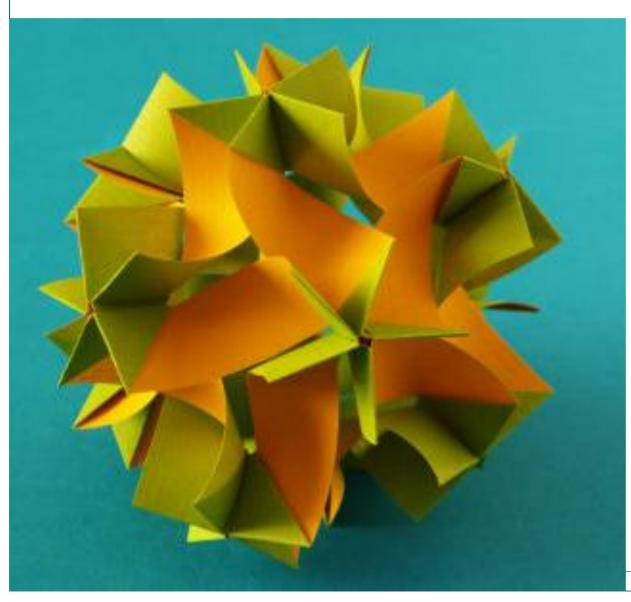
#### Personalization and interaction

- Integrated Inkjet
- Upcode
- Augmented Reality





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# New folding variations:

#### Halfcover&flying page

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#### Detroit Newspaper Agency, USA

#### Handelsblatt, Germany



#### Halfcover&flying page

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#### Süddeutsche Zeitung, Munich:

 Flying page used for festival program

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#### Half-cover variations: Flap inside



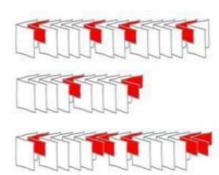
## Half-cover variations: **Flying page**

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 Flying page positioned inside the product



- Flying page as center spread for tabloid
- Pick-up Book in tabloid





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## Half-cover Variations: Flying page

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Artysci mowią: glosaji

#### Gazeta Wyborcza, Poland:

- Flying page as wrap-around and booklet
- Combined with ad on last page



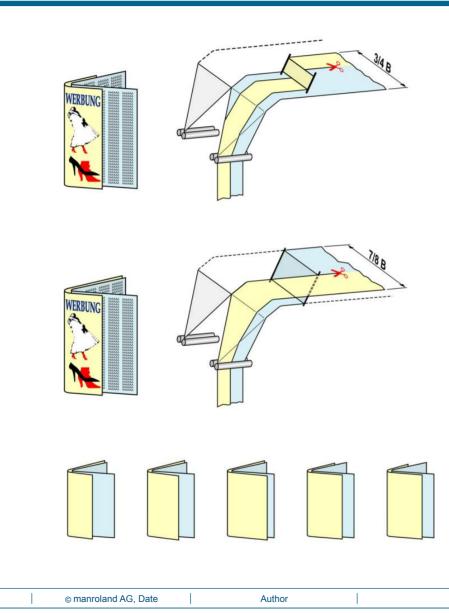
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### Half-Cover und Flying page im Broadsheet

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Flying page:

- Single page wide ribbon shifted to middle of former
- A flying page covers half of each the first and the last page of a book of a newspaper
- Possible to run on all formers

Half cover:

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- 7/8-wide ribbon to be run straight over the former
- Half cover production means that half of first page of newspaper or section is covered, last page of the paper or section is in full page widths.
- Possible to run on all formers
- Attention: change in dampening system (1/2 page wide shutters) PECOM and Pin position necessary.
- Different page widths on first and last page possible.

#### **Mini Plow-Fold**



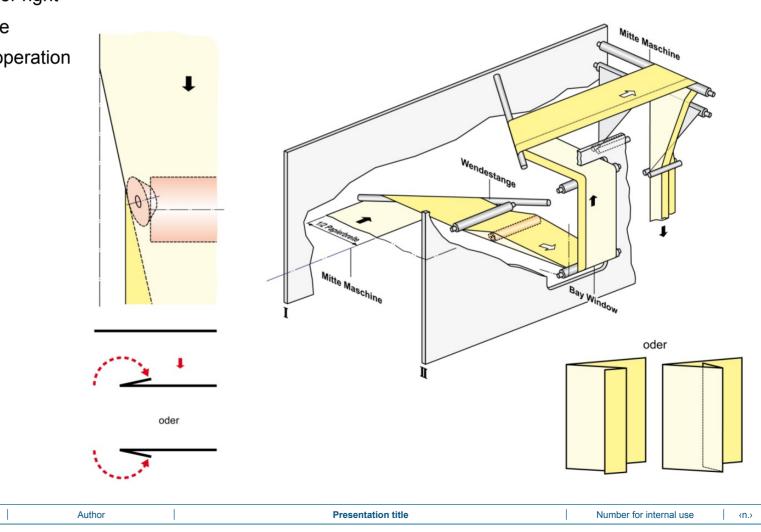
#### **Integrated Mini-Plow**

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- Plow of max. 80mm
- Up or down, left or right
- Upgrade possible

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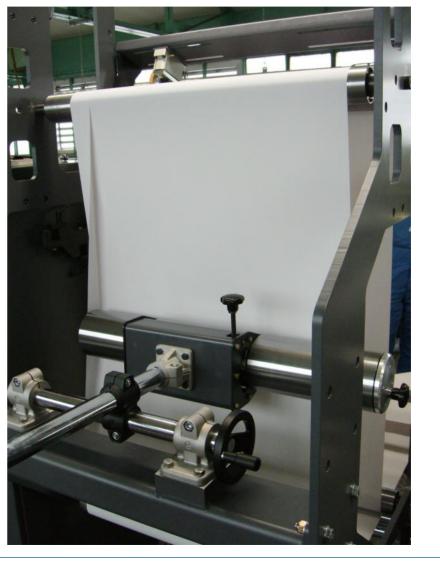
Simple manual operation



#### **The Mini Plow**

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• in manroland 's test facility in Augsburg



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#### **Product Designs with the Mini Plow**



## **Creative folding: Superpanorama**

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#### The Age, Australia





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## Zig-Zag Fold

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 Hindustan Times, India printed on REGIOMAN with plowfold



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## "N-type" with plow fold

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#### Publico, Lisbon/Portugal

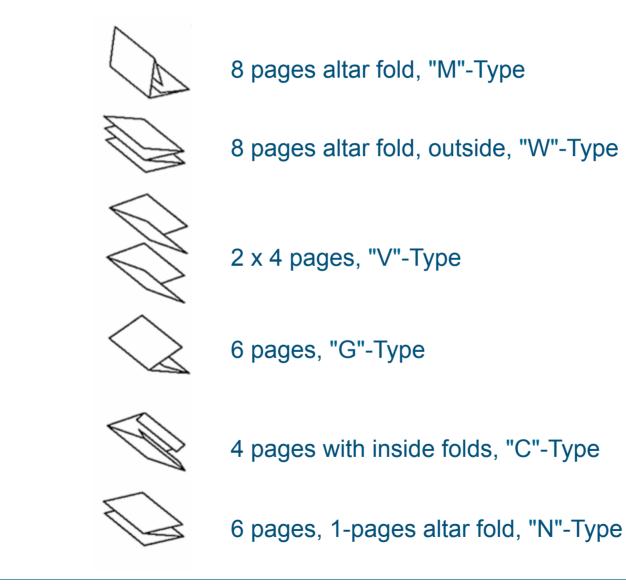




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## Production possibilities Superpanorama

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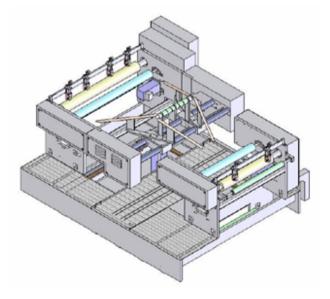
#### Superpanorama

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#### How to run a Super Panorama:

- Angle full web centered to former board
- Plow both sides 1 page wide





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## Your and our daily challenges!

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#### **Cost reduction/waste reduction package**

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#### **Web Widths Reduction**

Paper cost saving due to smaller web widths

#### Quickstart

Automated pre inking

#### **Automatic Waste Gate Control**

Selective copy-specific opening and closing of the waste gate



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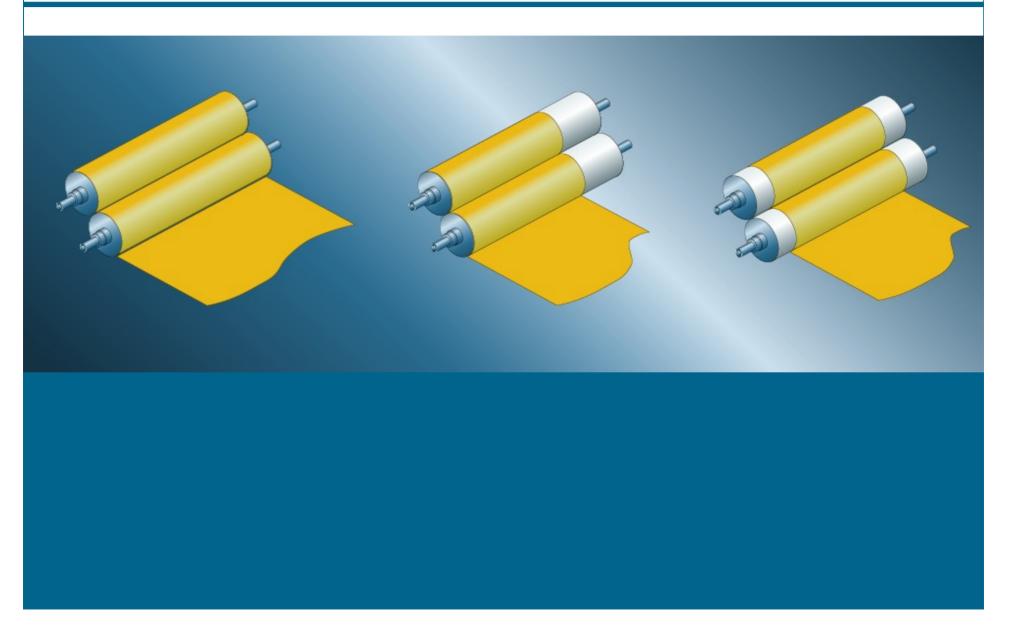


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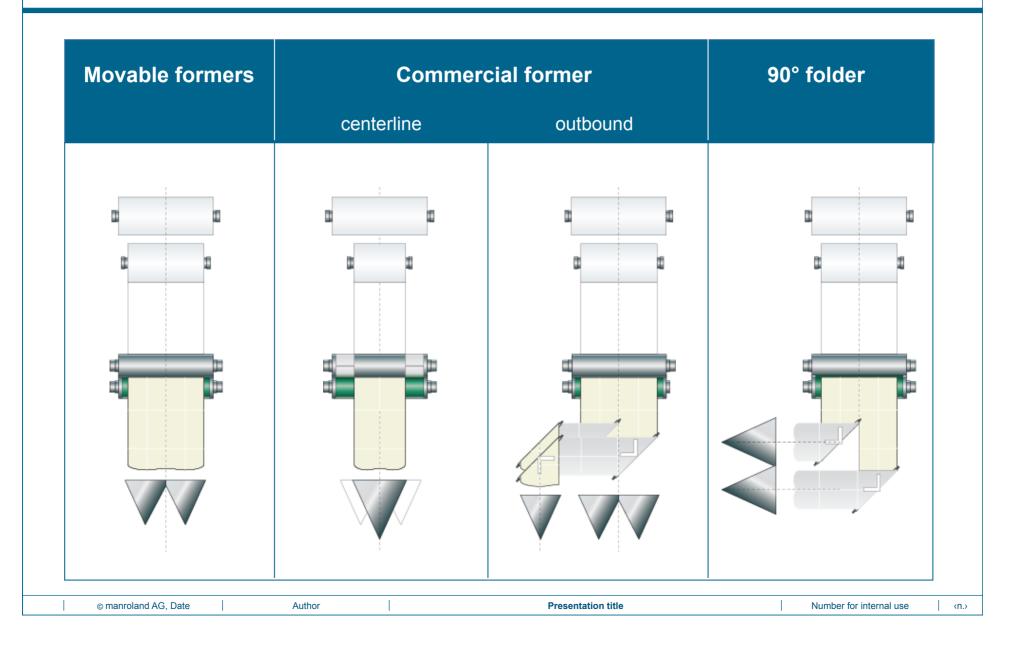
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## Web width variability



## Web width variability Solutions



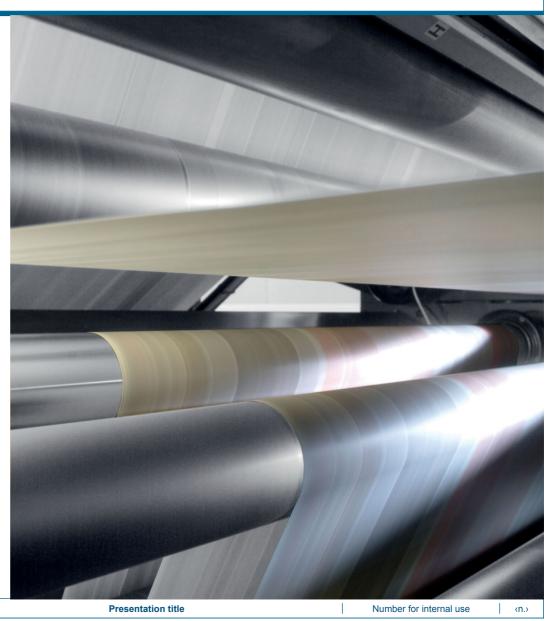
## Former boards Adjustments with movable formers

- One former board including the following lead-in rollers and the pair of drag rollers positioned together on one sideframe
- Each individual former therefore moved towards the other former board for web widths variation
- The adjustment of the former board manually, if the reduced web width is used occasionally or if regularly: the adjustment of the former board motorized and presettable for the different web widths via the PPM station (optional)

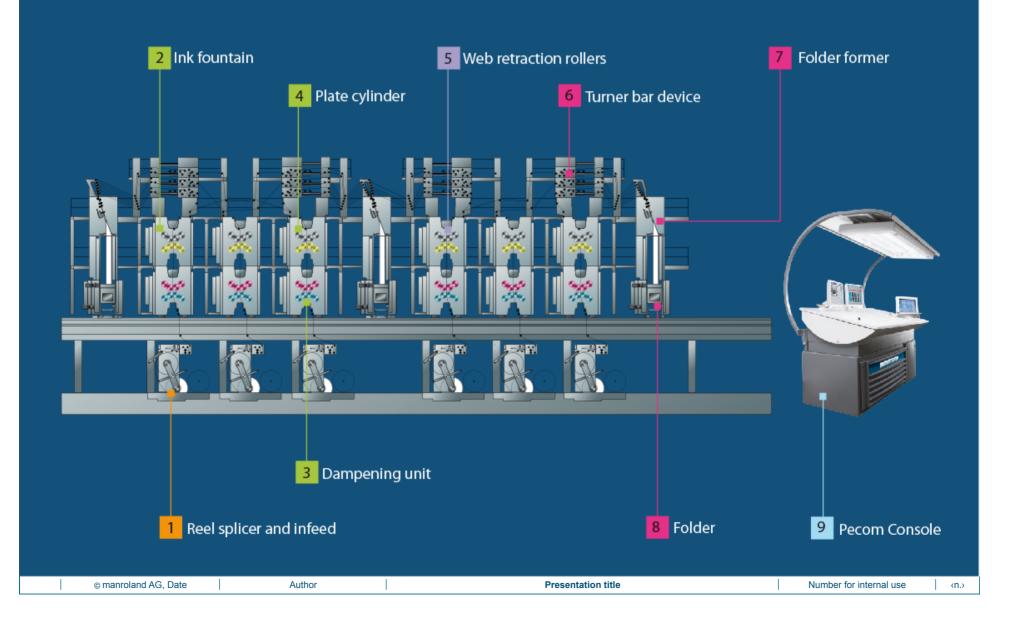


## Web width variability Additional benefits for the customer

- Additional products higher efficiency of the press
- Increased flexibility
- For one web or all webs
- Cost reasonable automatic change over as required



## Overview Automated adjustments



#### **Cost reduction/waste reduction package**

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#### **Web Widths Reduction**

Paper cost saving due to smaller web widths

#### Quickstart

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#### **Automatic Waste Gate Control**

Selective copy-specific opening and closing of the waste gate





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#### Quickstart Introduction

- For low ink density-related paper waste rates at start-up and restart, we offer our "Quickstart" upgrade
- Quickstart is an automated pre-inking module from manroland that is integrated in the press acceleration phase
- With Quickstart you can produce saleable copies shortly after printing starts
- Quickstart takes the ink and paper combinations used into account



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### Quickstart Technical Details

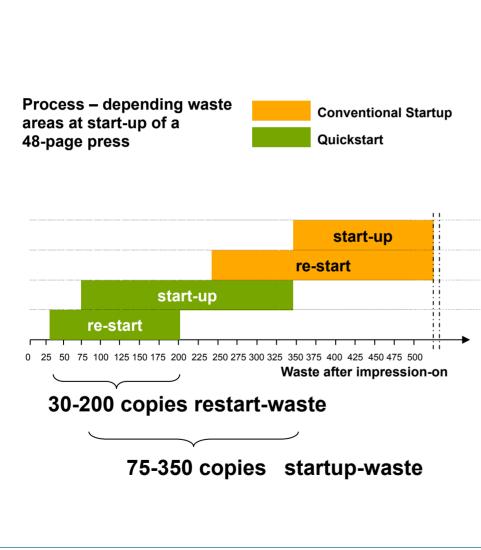
Pre-inking with Quickstart with and without disengagable film roller

- Integrated in automatic acceleration
- Pre-inking only after inking unit wash-up
- Pre-inking independent of the print form with n% zone opening
- Constant pre-inking time with constant press speed
- The Quickstart parameters control the ink fountain revolution speed depending on the paper and ink
- Pre-inking takes place again after plate change and inks are changed (only with disengagable film roller)
- Optimisation of the acceleration/deceleration sequences
- Low ink density-related paper waste rates at start-up and re-start

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### Automation & Workflow <u>Example</u>: Quickstart - potentials

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#### Quickstart

- Optimum of ink presetting, pre-inking, offset sequences and washing sequences
- Pre-inking at acceleration
- Regard of edition changes
- Process optimization
- Waste potential areas: see diagram

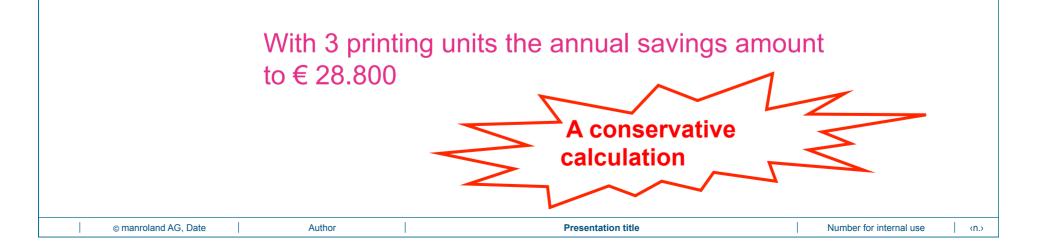
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#### Quickstart The Quickstart Sequence

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#### Quickstart reduces costs, web for web, year for year

- 4/2 printing unit
- 16 four-colour pages
- 300 production days in a year
- An average of 2 start-ups per day
- An average of 100 fewer waste copies per start-up
- € 0.01 production costs per page
- Cost savings: 16 x 300 x 2 x 100 x 0.01 = € 9.600



#### **Cost reduction/waste reduction package**

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#### **Web Widths Reduction**

Paper cost saving due to smaller web widths

#### Quickstart

Automated pre inking

#### **Automatic Waste Gate Control**

Selective copy-specific opening and closing of the waste gate





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## Automatic Waste Gate Control Introduction

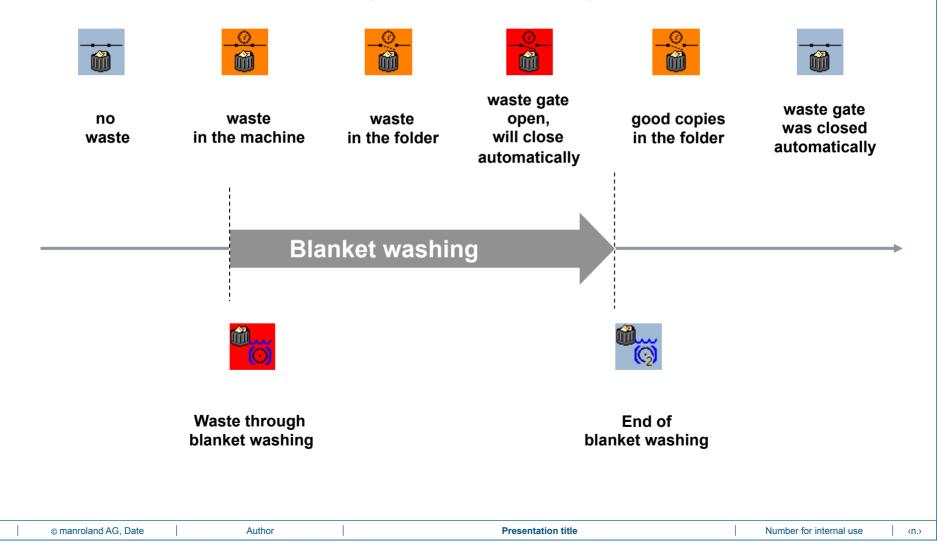
- This technical enhancement enables different types of waste to be automatically diverted
- The purpose is to minimize waste rates and significantly reduce the customer's production costs



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#### **Automatic Waste Gate Control**

#### Visualization of a complete fully-automatic waste gate course of events



## **Grazie per Vs. attenzione!**

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