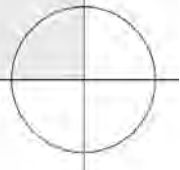




KBA upgrade program for newspaper presses

February 24, 2011, Peter Eehalt



Product flexibility by web width modification

Solutions depending on production structure:

- Frequency of use of different web width
- Variance of web width
- Number of webs

To consider:

pre-press, reel loading, web tension, ink fountain,
dampening unit, superstructure, folder, post press,

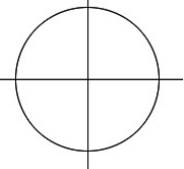


Variable web width reduction

Fix web width reduction

automatic

manual





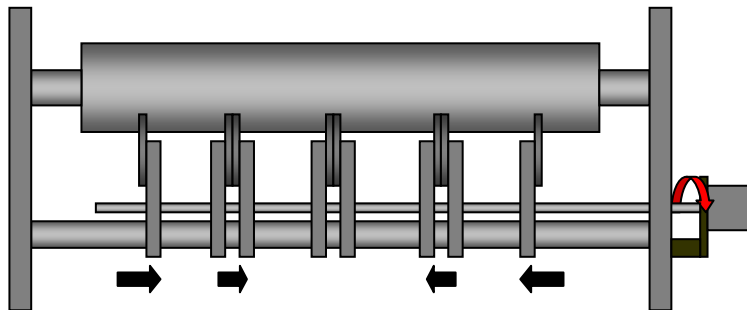
Reelstand

Variable automatic / manual

- Automatic / manual positioning of reel arms to elected web width

Fix

- Change of arm transver path in reelstand software



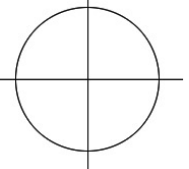
Draw rollers infeed unit

Variable automatic / manual

- Automatic / manual positioning of trolleys to elected web width

Fix

- New positioning of trolleys



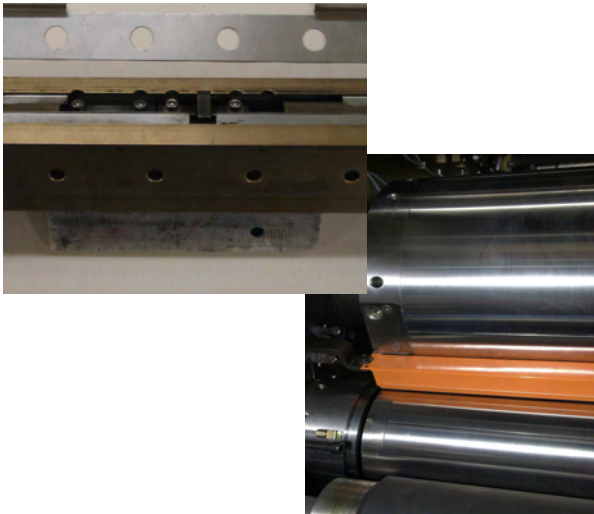


Plate Cylinder

Variable automatic / manual

- Change over of pre - press

Fix

- Modification of plate clamping (register pins)



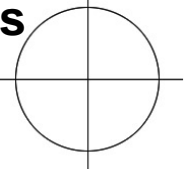
Dampening unit

Variable automatic / manual

- Automatic / manual adjustment of shutters for optimal dampening

Fix

- Installation of shutters or change of spray bars and dampening rollers





Ink fountain

Fix

- Turn off of ink rollers to new web width

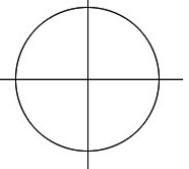
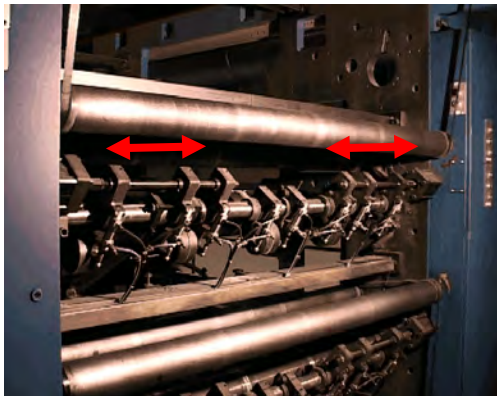
Draw rollers superstructure

Variable automatic / manual

- Automatic / manual positioning of trolleys to elected web width
- Modification of draw rollers for double draw rings

Fix

- Modification of draw rollers and draw rings and new positioning of trolleys





Turner bars

Variable automatic / manual

- Automatic / manual positioning of turner bars to elected web width
- Installation of second adjustment position

Fix

- New positioning of turner bars



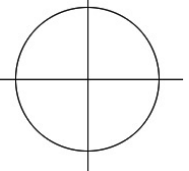
Slitter unit at pre-gathering roller

Variable automatic / manual

- Automatic / manual positioning of slitters to position of $\frac{1}{4}$ web
- Modification of pre-gathering roller for double slitter rings

Fix

- Modification of pre-gathering roller and slitter rings and new positioning of slitters



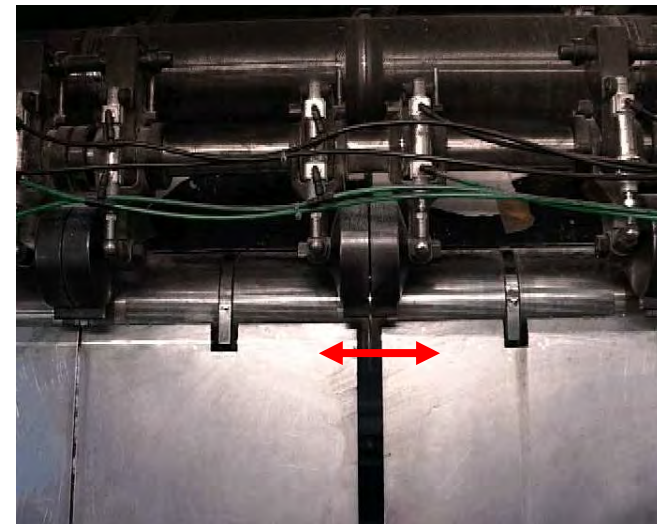
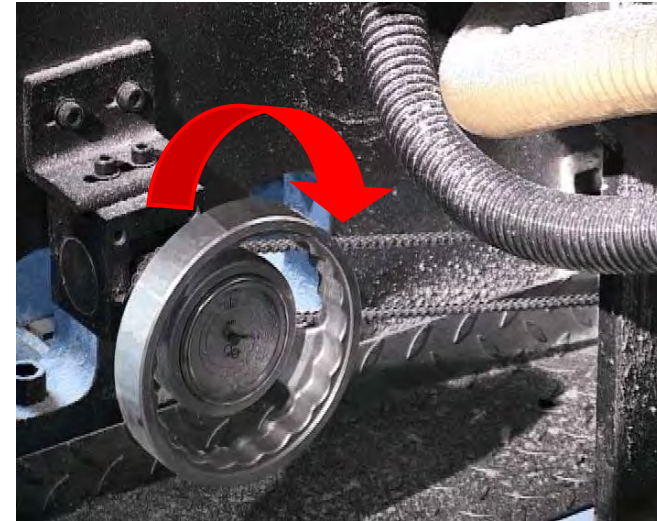
Folder superstructure – slidable former

Variable automatic / manual

- Former positioning by adjustment
advice automatically / manual

Fix

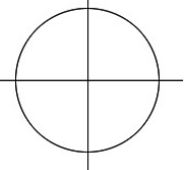
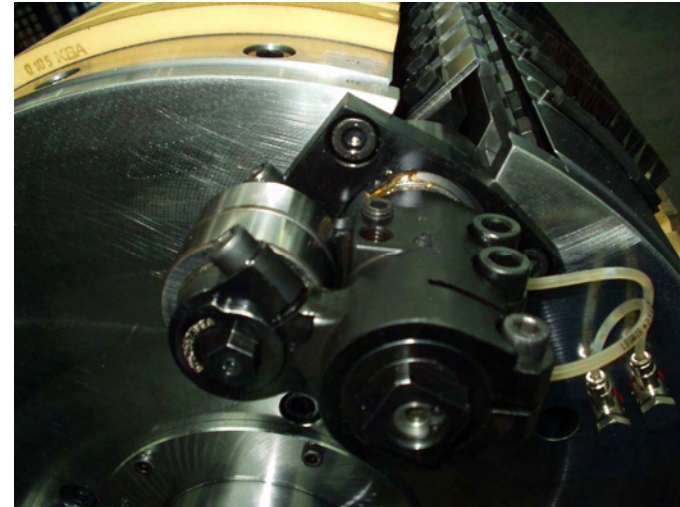
One time reposition of former



Folder

Variable and Fix

- Additional pins
- Modification of saddles (knives and jaws)



Spray bars Jet150 & Optima to ECO or Maxima



Jet 150



ECO

the flexibility in handling
open the front for inspection
turn the valve rail to be even more
handy to operate

the Constant C - Concept

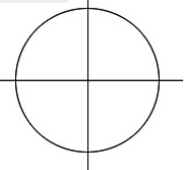
even take the complete valve rail out
for further control

U59 Plunger

Precise water spray and distribution



Maxima



Replacement of old blanket washers to a new system

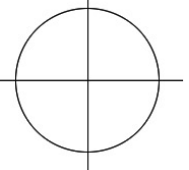


PREPAC®

- No extra handling of cleaning agents
- Virtually zero VOC
- Increased reliability
- Controlled, smooth and even application of cleaning agent
- Baldwin is cleaning process responsible
- State of the art simplicity

Dry Cloth

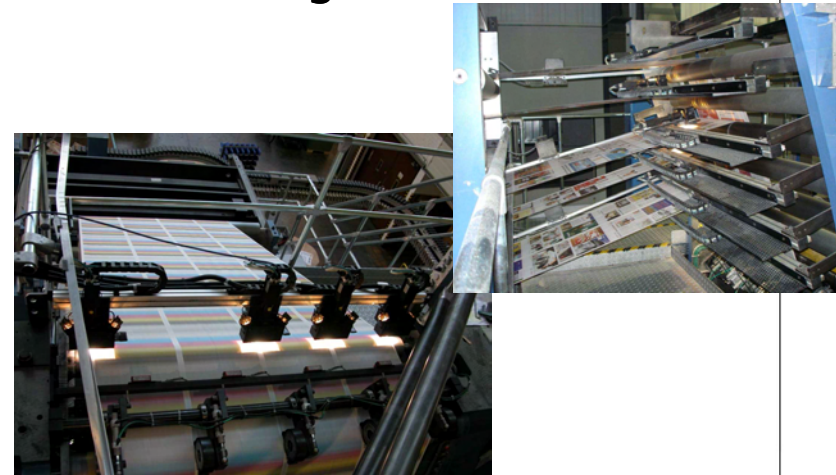
- A bit more flexibel for other cloth, but risk for the process by self, and the response
- Lower consumable costs
- Higher VOC than PREPAC
- More internal handling
- Adding of cleaning agents in process could affect environmental demands



Retrofit of a automatic color and cut-off register control

Advantages:

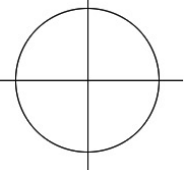
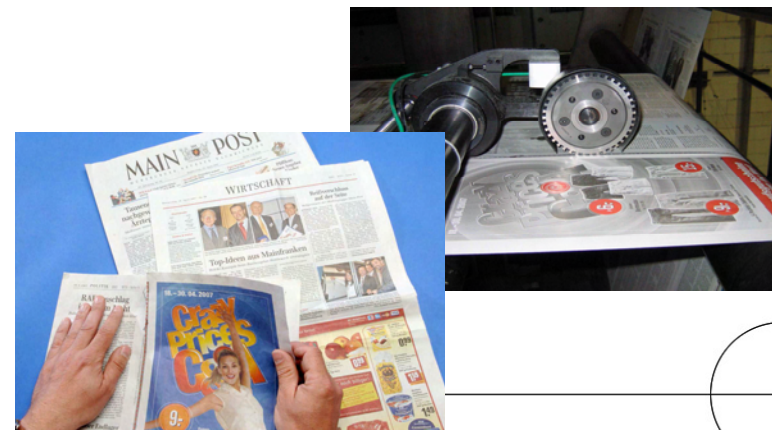
- Saving of waste
- Fully automatic control



Retrofit of a Variable perforating module (Zip & Buy)

Advantages:

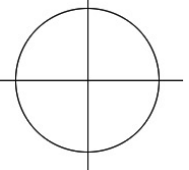
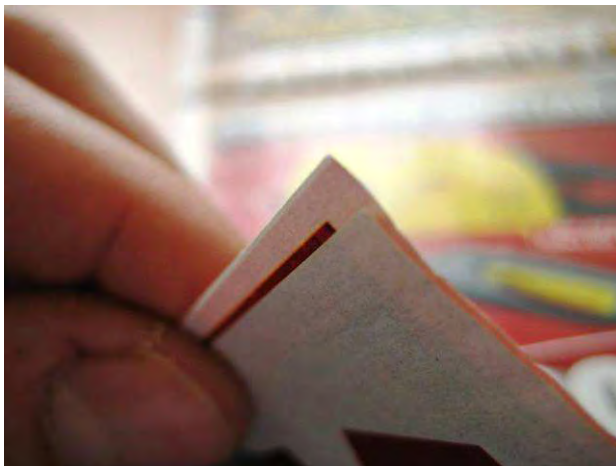
- Additional marketing possibilities for your customers



Glued super panorama

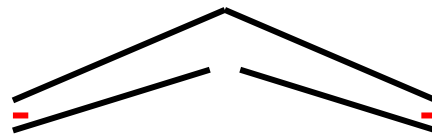
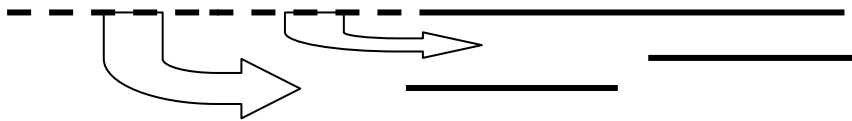
Advantages:

- Enhancement of product portfolio
- Low priced by comparison to „real“ plow fold

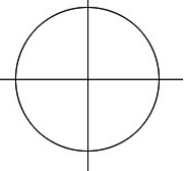


Method:

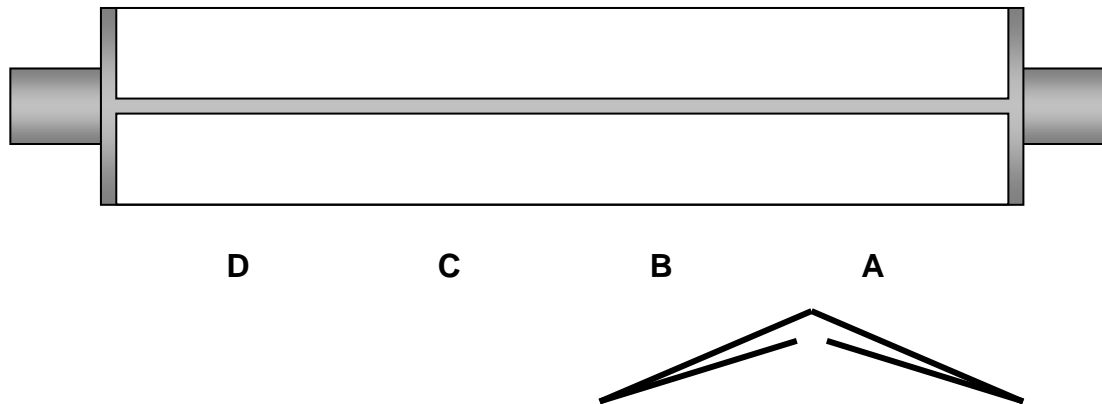
- A ribbon two pages in width is fed centrally over the former along with two single ribbons:
 - First the two single ribbons are fed into position and glue applied to the outer edges
 - Then the two-page-wide ribbon is fed on top
- The ribbons contact over the former to achieve a „plow fold“



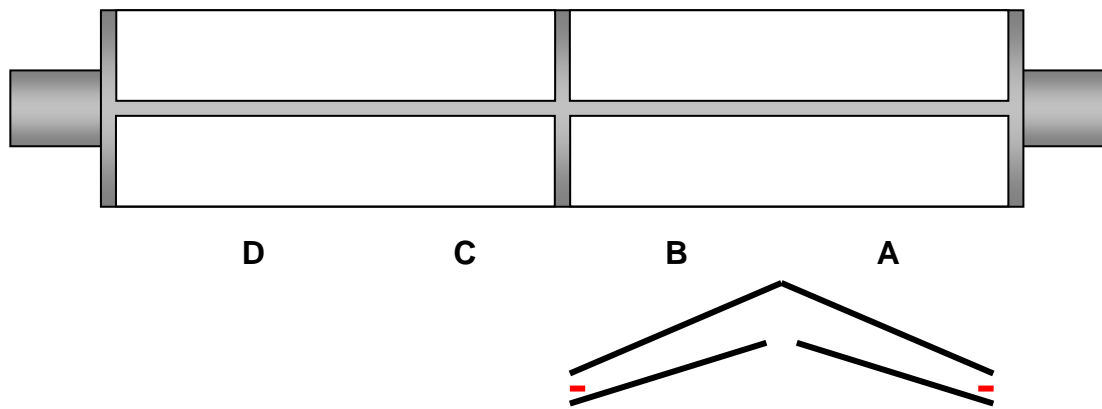
Glue applied



Genuine super panorama

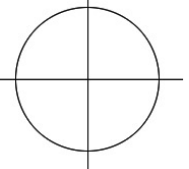


Glued super panorama (without plow)



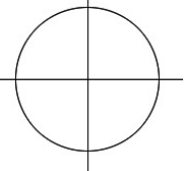
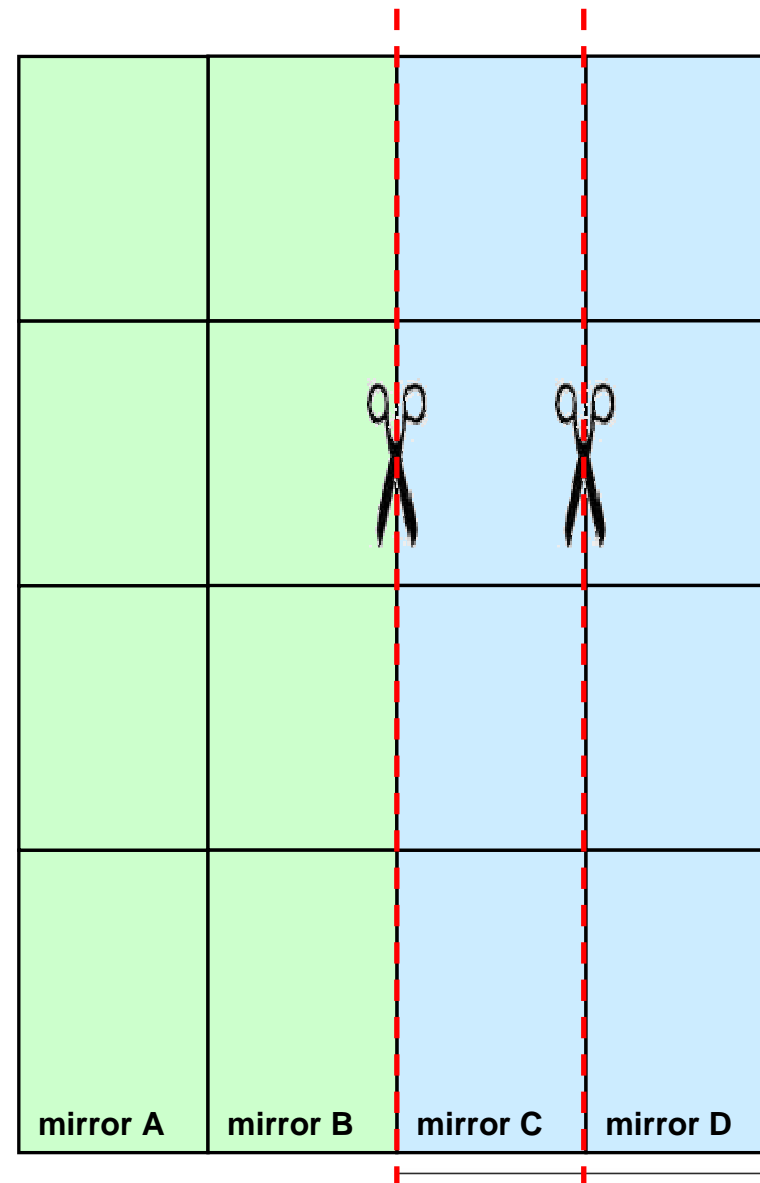
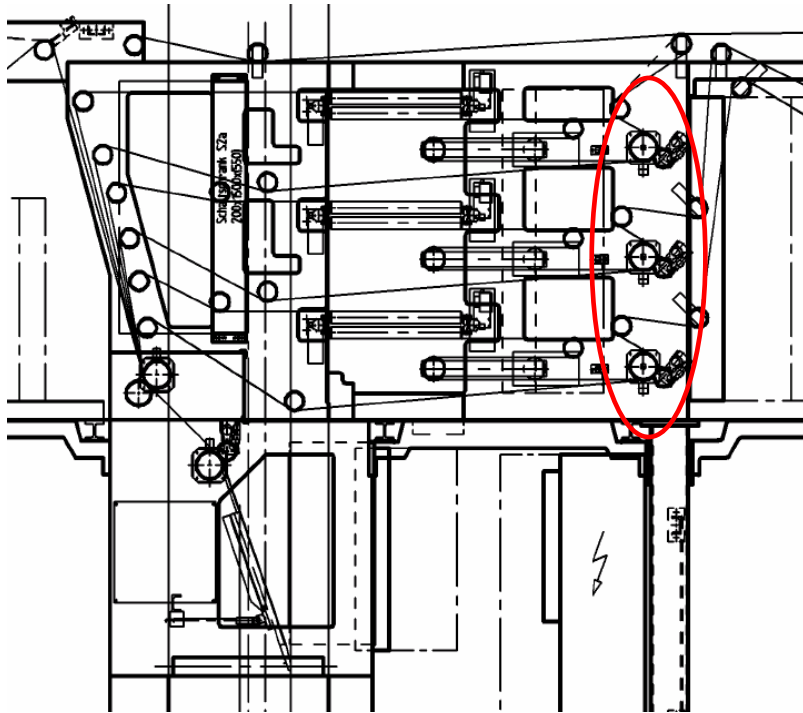
- Comprehensive plow fold equipment required
- Difficult web travel
- A lot of space needed
- High investment costs
- Preconditions :
 - full-width plate
 - full-width blanket
- Unattractive gap in centre
- Not possible with staggered cylinder gaps

- No plow fold equipment
- Upgrade possible for many presses
- Low investment costs
- Preconditions :
 - normal panorama plate
 - half-width blanket GT
- The non-print gaps basically disappear as they are glued.
- Also possible with staggered gap

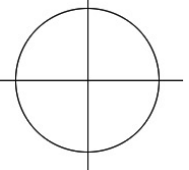
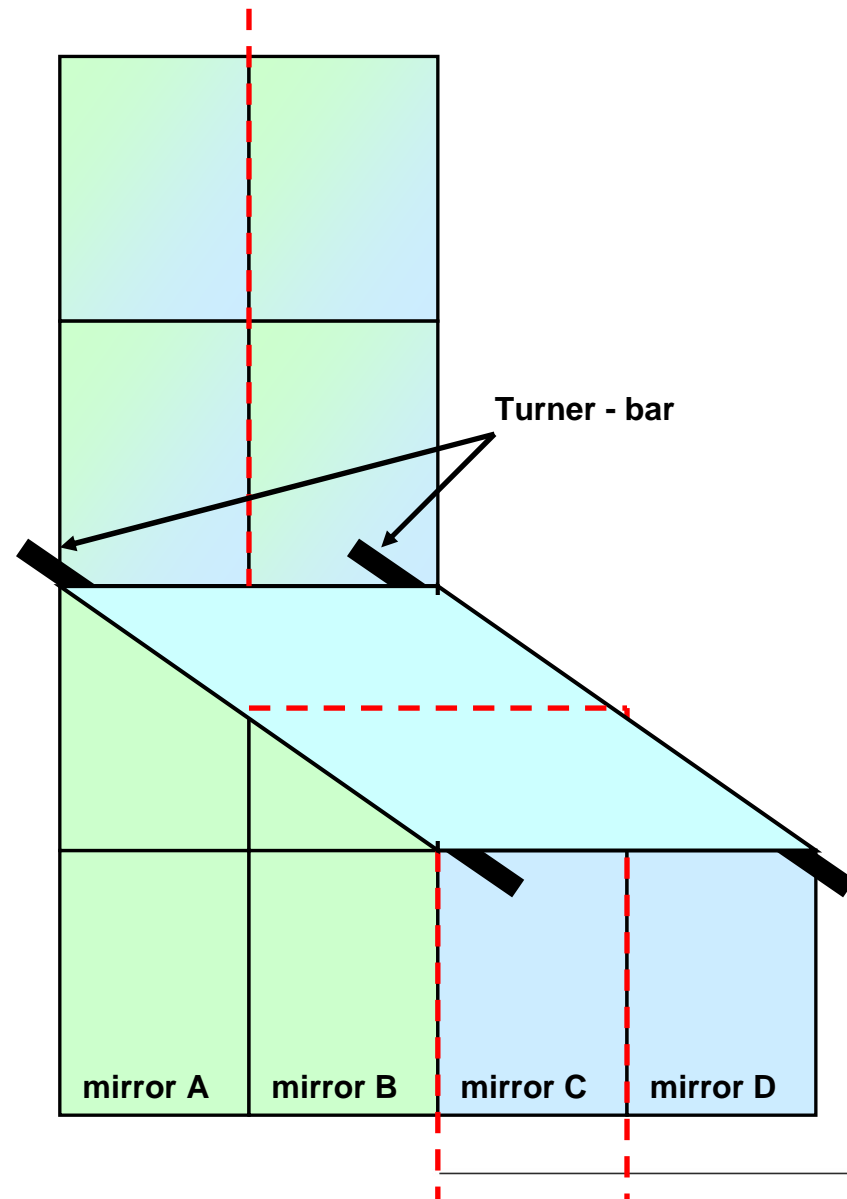
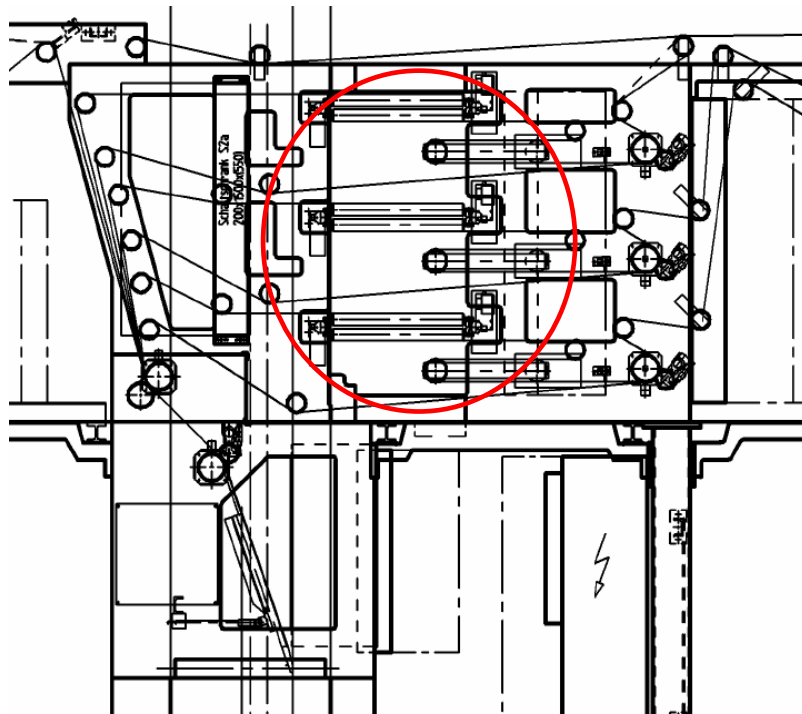


Initial situation: 4 plate-wide press

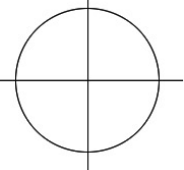
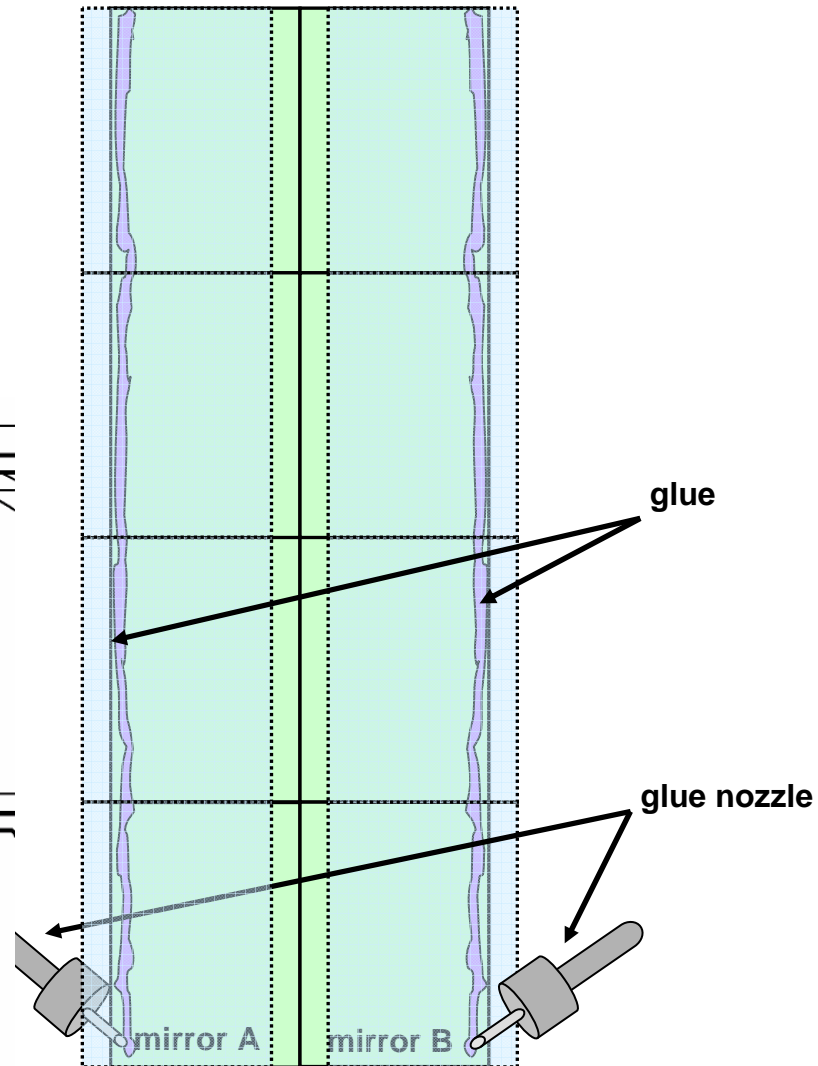
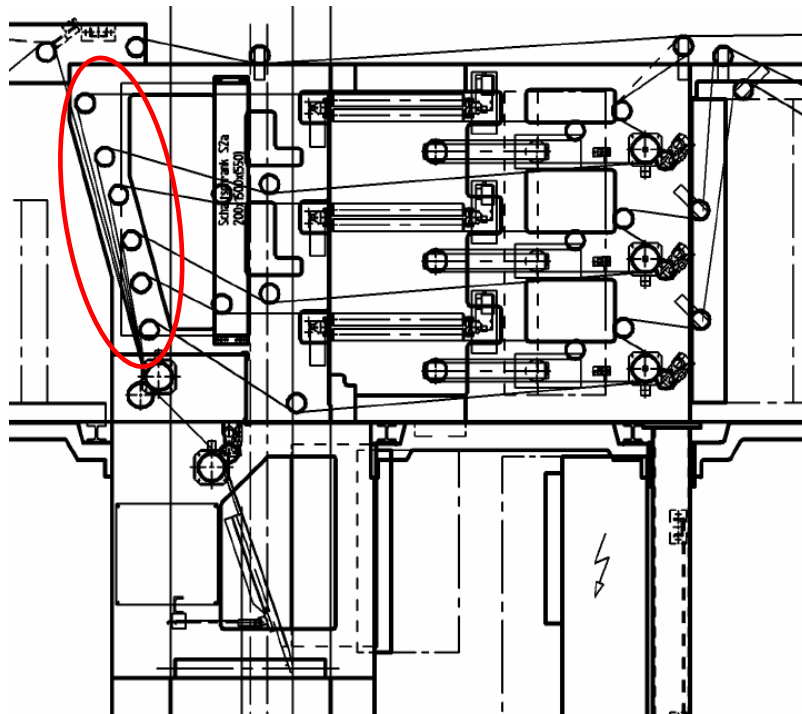
1. In the superstructure in the first length cut (first draw roller) , the web is cut centrally and between mirror CD.



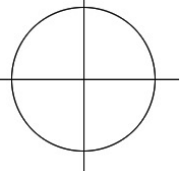
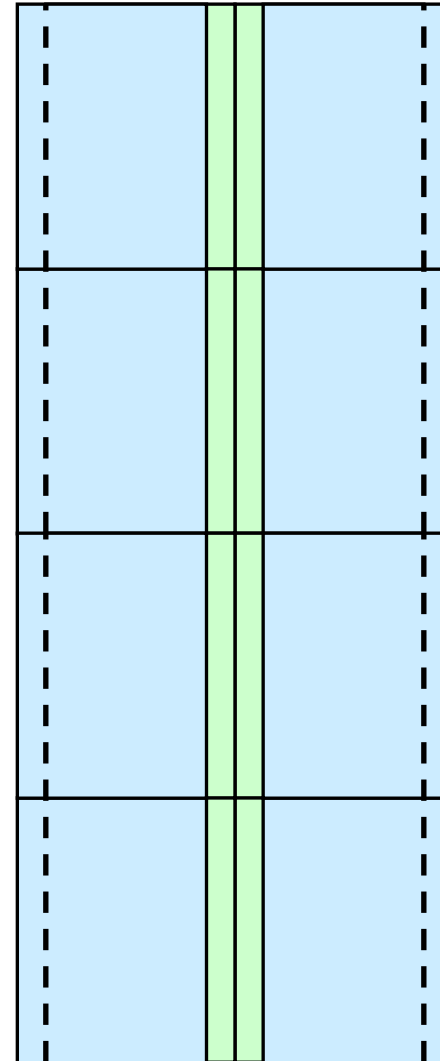
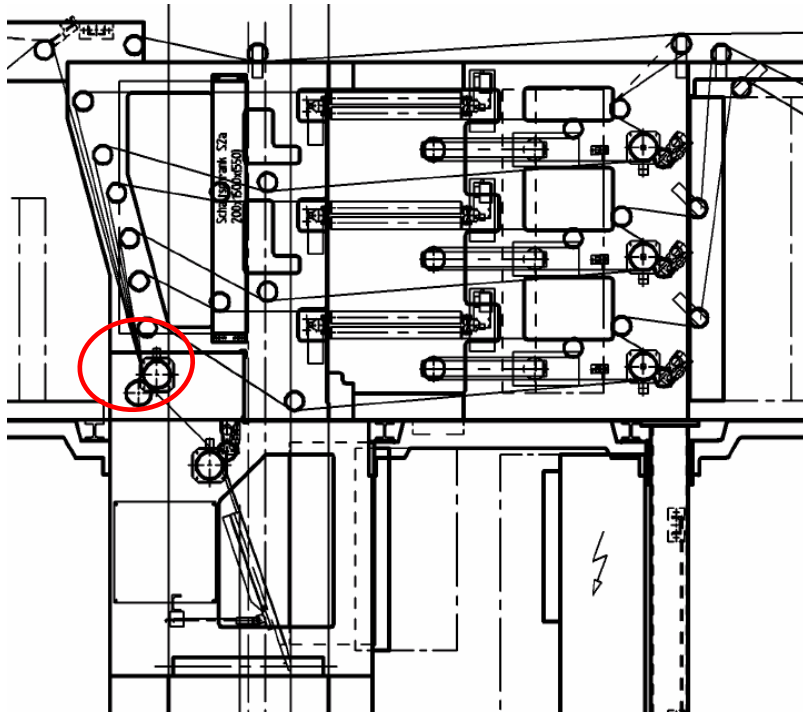
2. 1/2 -wide web – mirror CD by means of turner bars, the web is turned to mirror AB



3. In the harp, the glue line must be applied to the outer edges of the half web on mirror AB (lower web).



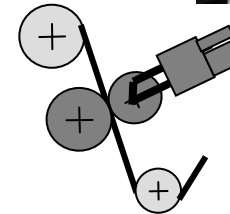
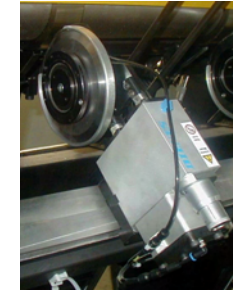
4. After the harp, the webs are gathered as before .



Retrofit to scissor-cut equipment

Advantages:

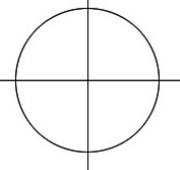
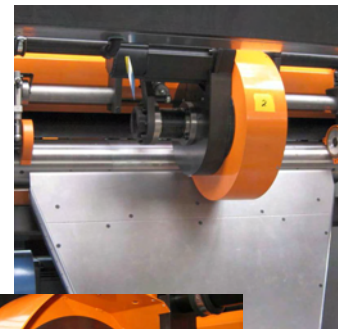
- Clear cut edges
- Less production of dust



Skip Slitter at RTF roller

Advantages:

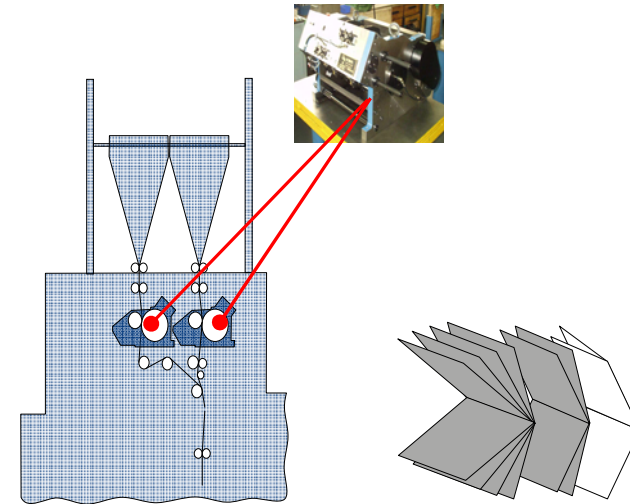
- Enhancement of product portfolio during collect run productions



Retrofit of a ribbon stitcher

Advantage:

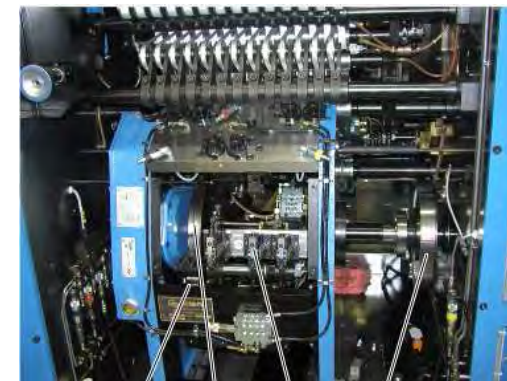
- Stitching of tabloid products
- Enhancement of product portfolio
- In-Line stitching saves resources in post press



Retrofit of a section stitcher

Advantage:

- Stitching of tabloid products
- Enhancement of product portfolio
- Stitching in collect and non-collect run

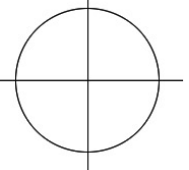
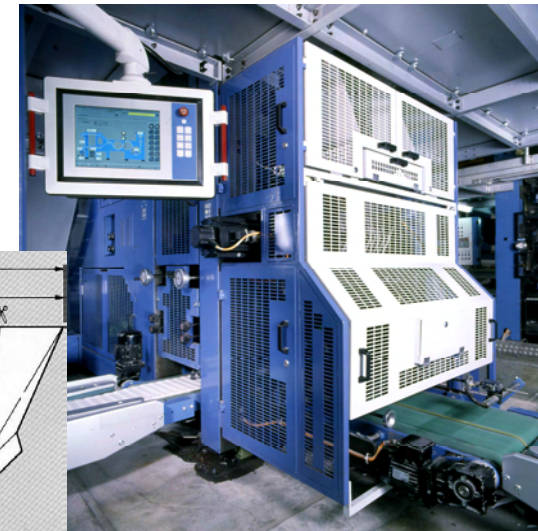
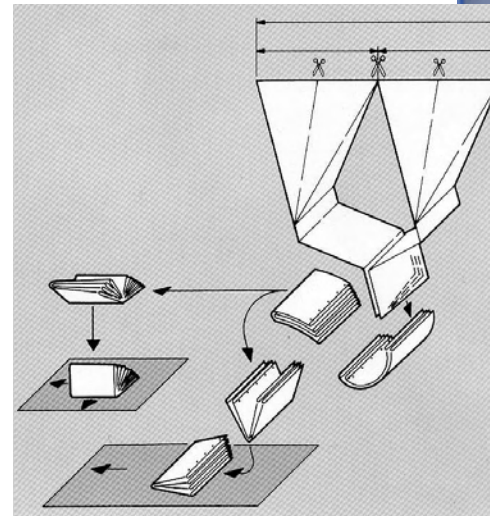


Retrofit of third fold equipment

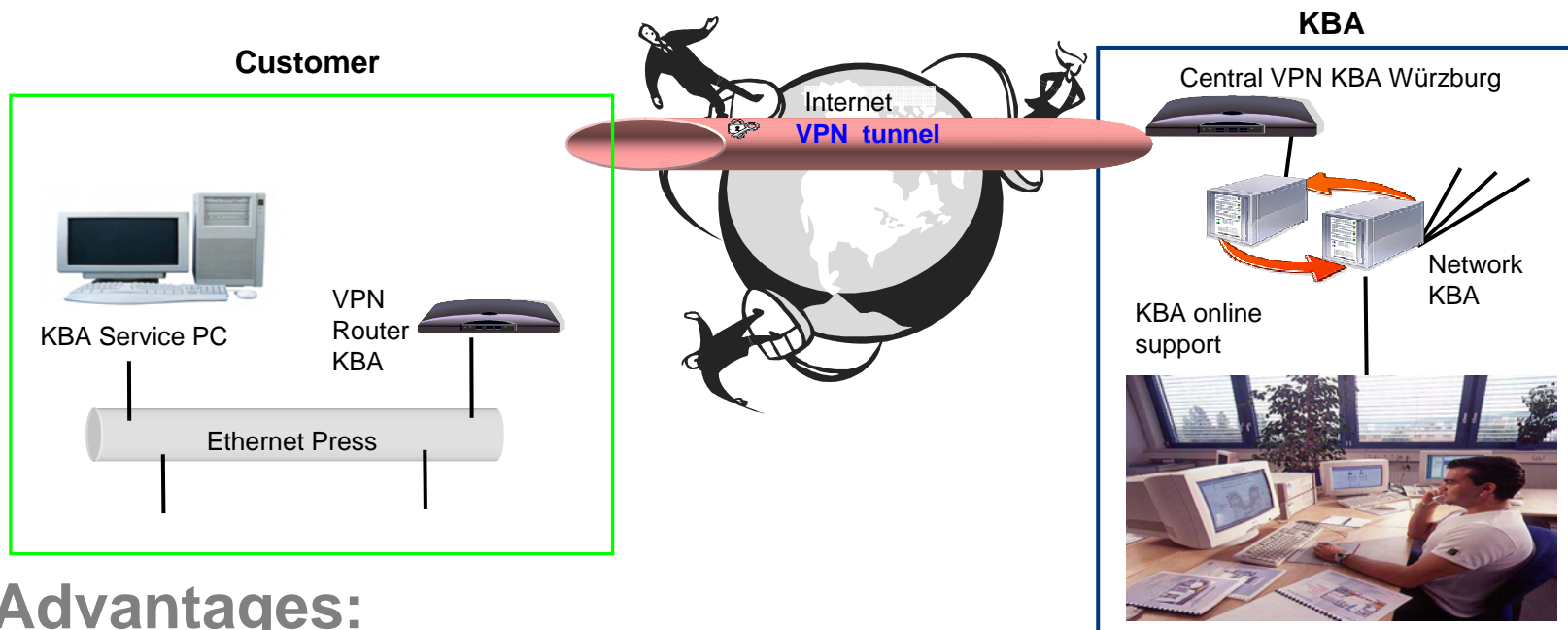
- During the production with the third fold equipment the products coming from first cross fold gets transferred by a belt system to the third folder table. The fold happens by a folder knife and nip rollers.

Advantage :

- Enhancement of product portfolio

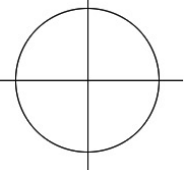


Virtual Private Network (VPN)



Advantages:

- **Highest-level data safety due to special hardware encoding (user-to-user connection) between KBA and the customer.**
- **Fast and safe access to the press via VPN tunnel.**
- **Low costs for data transmission due to high band widths**





Koenig & Bauer AG

www.kba.com

