

April 2010 Böhler Uddeholm precision strip GmbH

The Company

Market Leader

Böhler-Uddeholm precision strip GmbH, with production sites in Austria and Sweden, is member of the Voest alpine AG group. Our core competence is in the production of cold rolled precision strip products for various applications.

With an outstanding history, tradition and the world wide sales network, we are recognised as world market leader in the production of **bi-metal strip**, **precision strip**, **steel rules and rule die steel**.

Our Customers

We are completely focused on the requirements of our customers.

Our success is based on the succes of our customers. Our goal is to create added value together with our customers.































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Make Ready = critical cost factor in diecutting

 Time consuming make ready & patching procedures necessary to achieve optimum diecutting results

Parameters for diecutting

- Machine maintenance/condition
- Cutting force adjustment → negative impact on knife lifetime
- Board properties \rightarrow humidity, thickness, fibres, filler contents, board surface, etc.
- Die layout
- Machine operator know-how
- Die quality

Market Constraints

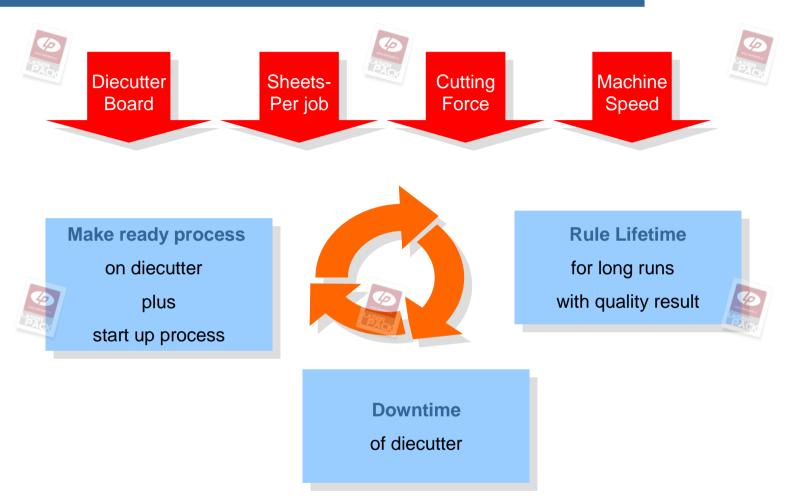
- Less sheets cut per job due to increasing no. of box designs
- As a consequence: more new & repeat orders





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Negative cost impact :

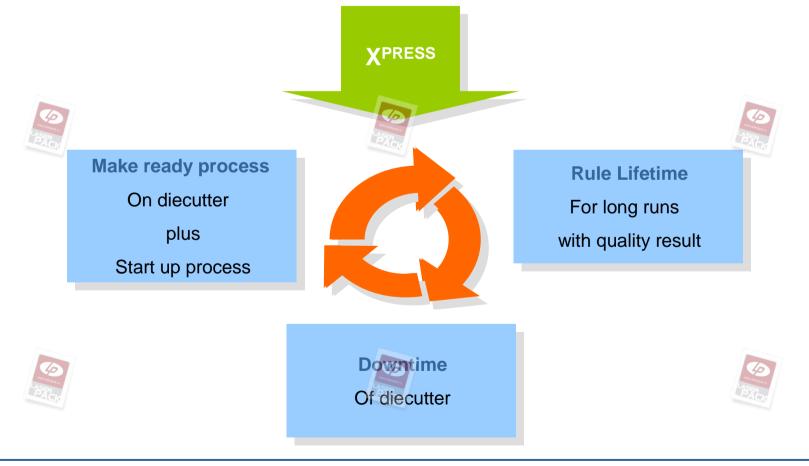
- Unprecise make-ready process leads to increased cutting rule wear
- Fast cutting rule wear \rightarrow quicker die wear \rightarrow frequent patching required
- More patching reduces diecutter productivity



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Böhler-Uddeholm precision strip

XPRESS®



The ,self - levlling' cutting rule patented since 2008



X^{PRESS} cutting rule is Böhler's latest contribution to cost saving initiatives in the diecutting industry.

- Innovative rule back design
- Standard cutting edge/bevel

During the start-up phase in the discuter, the patented micro-serration
on the rule back achieves the self-levelling effect of the cutting rules.
The rule back gets compressed through the application of the cutting
force. Cutting rules are calibrated quickly by fractions of microns all across the
die and achieve excellent cutting performance from the beginning.

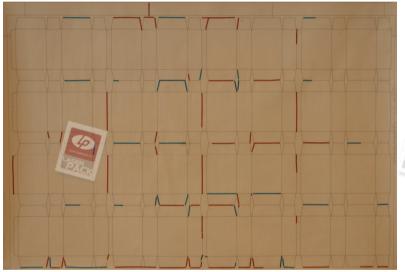
Numerous tests have proven high reduction in make ready time

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Patching sheet – Reality Check

with standard CF- cutting rule



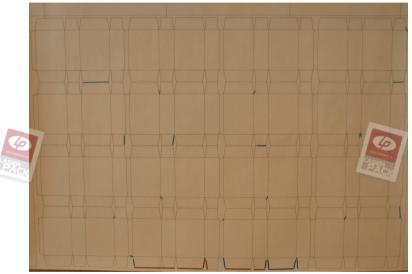
Diecutter:

- Heidelberg Dymatrix 16 Pro
- 16 ups

Solid box board:

Invercote G, 240 g/m²

with X^{PRESS} cutting rule



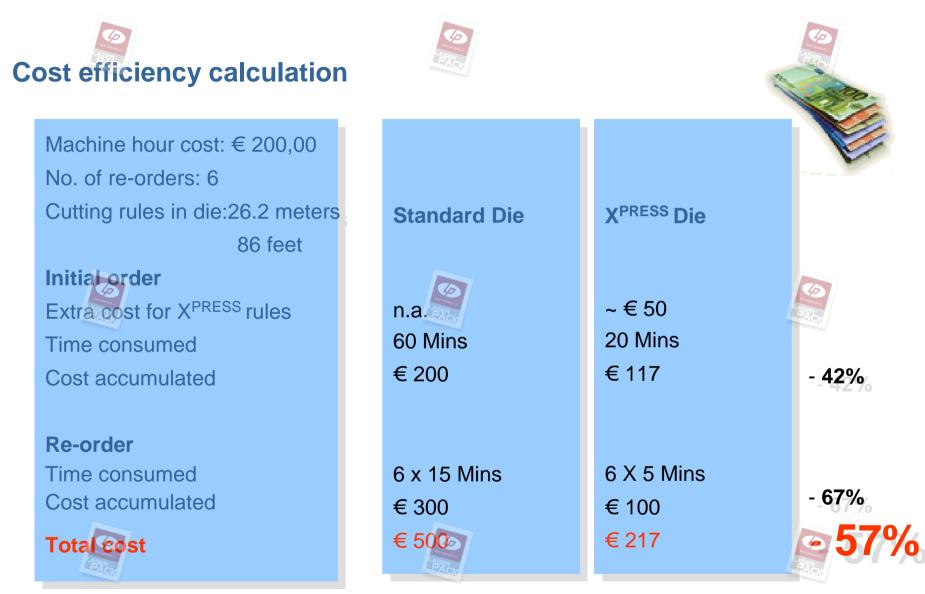
Rules in the die:

- 24 M Cutting rule (79 feet)
- 14.4 M Creasing rule (47 feet)
- 2.2 M Compensation rule (7 feet)



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Extra cost for counterplates, chase plates, etc not included!

Field Test Experiences

- Successful in 100+ dies in 15 locations
- Up to 40 re-orders with 1 set of knives on different diecutters
- Successfully tested with 1 60 up dies including embossing/perforating/scoring
- Constant & long lasting cut quality
- Diecutting performance (e.g. cigarette):
 5.2 M sheets 1 set of knives die still useable





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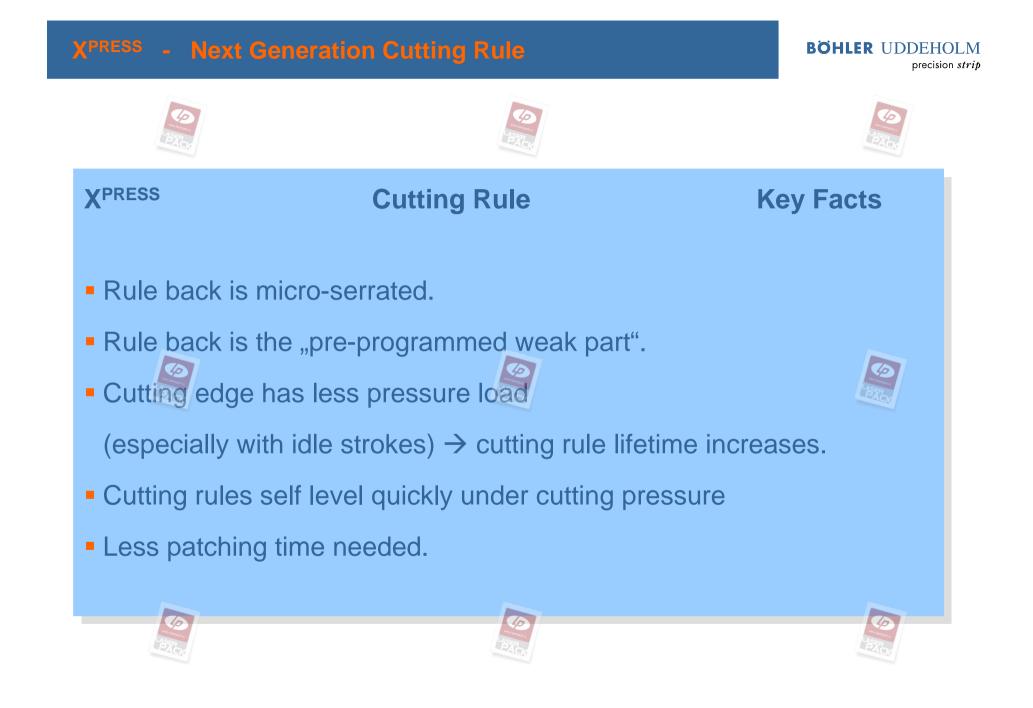




- Platen parallelism (with cutting force equally spread)
- (New)Medium hard counter plate (~ 35 HRC) recommended
- Chase plates in good condition
- Zone patching recommended
- Calibrated patching sheets recommended (0.1/0.14mm)
- Use increased cutting force for first make-ready step
- Use Böhler-Uddeholm precision strip creasing, perforating &

scoring rules only (tolerances +0,00mm / -0,04mm)







The language





Converter Benefits

- Make ready time down \rightarrow diecutter productivity up
- Excellent and constant cutting results at highest level
- Die lifetime improved
- Operator motivation up due to fewer/shorter make ready activities
- Interchangeablility: XPRESS equipped dies usable on multiple diecutters















Diemaker Benefits

- Standard rule processing possible
- All auto-processes still applicable (e.g. lipping, nicking)
- XPRESS helps diemakers to upgrade to high-end customer base
- Offer latest technology to converters







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- UNIVERSAL CF .937 x 2pt
- Other dimensions on request!
- In coils of 328 feet 100 meters
 - (clockwise/counter clockwise)
- In length of 1meter
- Delivery from stock in Austria



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Sales Steel Rules

Böhler-Uddeholm precision strip GmbH Waidhofnerstraße 3 3333 Böhlerwerk Österreich

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