

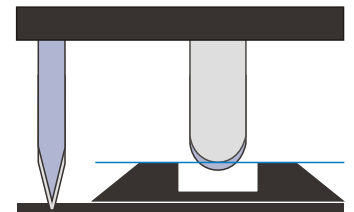
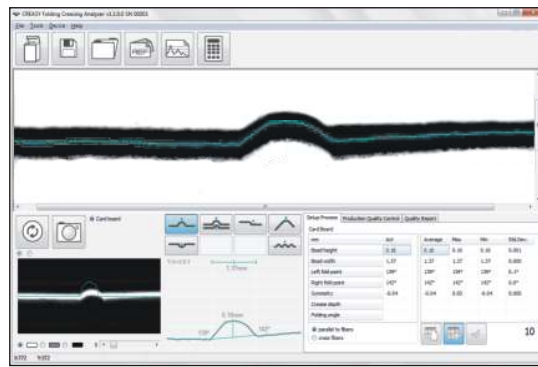
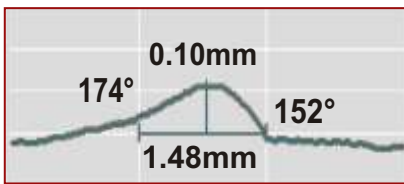
BETA FOLD Crease & Fold Analyzer

Why Creasing Control Is Important

- **REDUCE EXPENSIVE WASTE & REJECTS** due to unusable boxes
- **REDUCE** variations in the cutting & creasing process
- **MINIMIZE** runnability problems on the packaging line

PAPER STRUCTURES & FOLDING BEHAVIOUR VARY WITH

- Fiber lengths, fiber content, and fiber orientation
- Coatings, bond between coatings and paper
- Printed ink & varnish
- Drying conditions that affect the flexibility of the substrate
- Environment – humidity in the pressroom

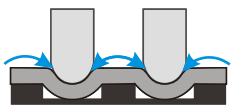


BETA FOLD SOFTWARE
Images & Analyzes Bead
Dimensions & Delamination
for Production Correction

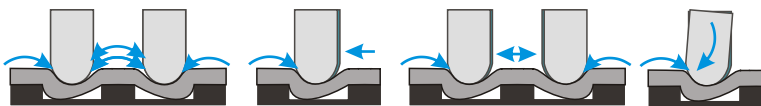
CALCULATE STATISTICS CREATE QUALITY REPORTS

**Detect changes in
die penetration due
to knife wear**

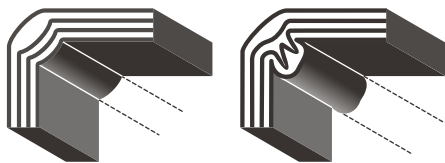
THE THEORY



IN PRACTICE



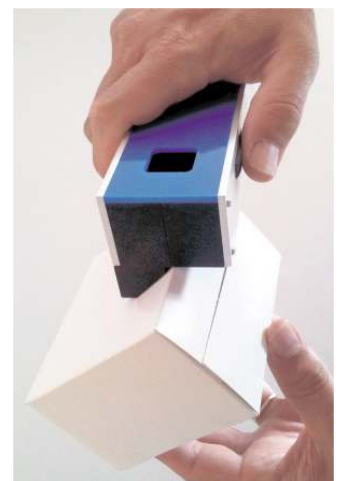
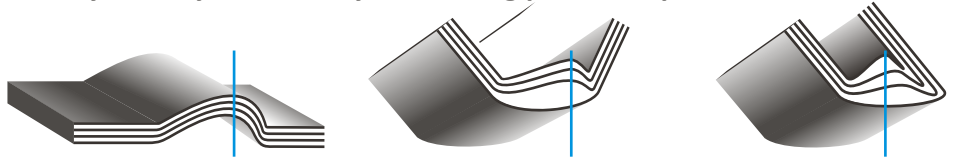
Fiber-fiber bonds between plies are broken to make creased areas behave like a hinge



Insufficient delamination
Bead Binding, Extensive
Tension Spine fracturing
or crease end splitting

**A crease
is a
double
fold!**

Bead symmetry is driven by the folding point sharpness



**symmetrical edges give
your product a high
quality look**

Application

Folding carton
On the press
After gluing
In the QA Department

Measure

Bead
Crease
Folding angle

Verify

Bead height, Crease depth
Bead width, Symmetry
Left fold point
Right fold point

Documentation

Quality Reports in PDF
Format, establish Statistical
Database