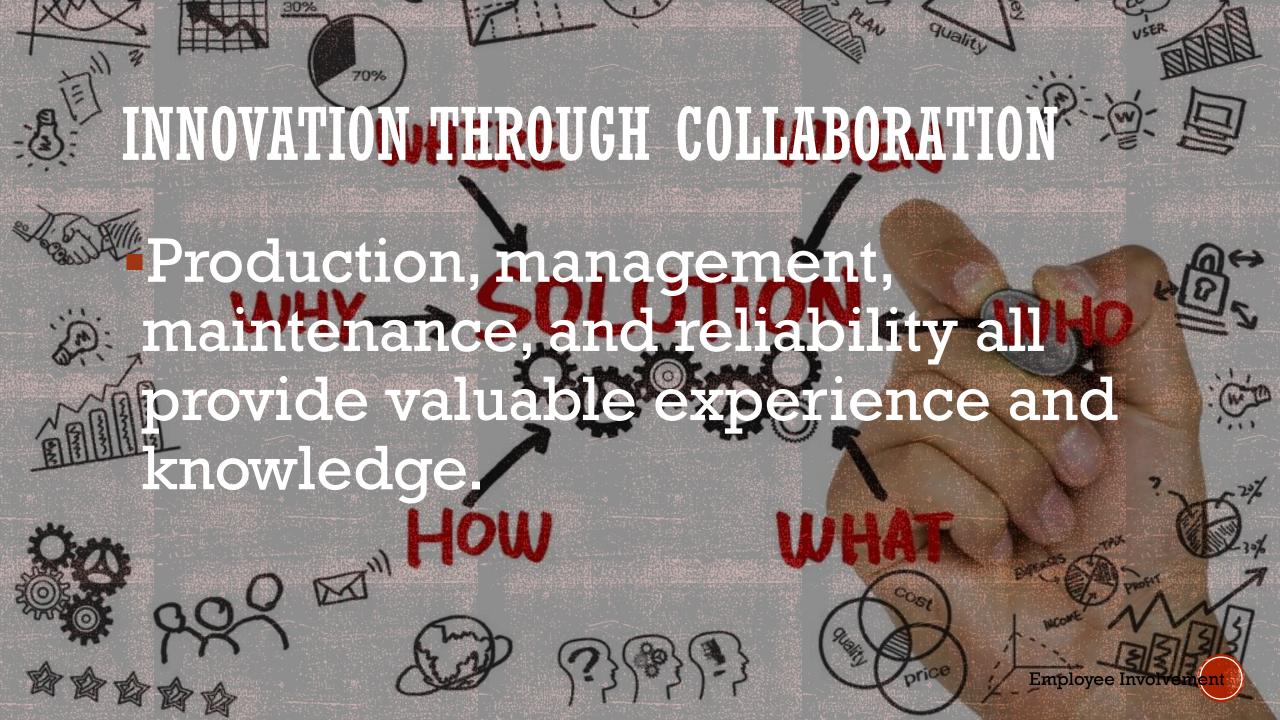




- Slitters, also known as knifeholders, operate in nearly all paper converting and mill locations
- Periodically, blades must be replaced, handled, and transported for maintenance exposing workers to laceration and serious injury
- Our site experienced such injury in February of 2017





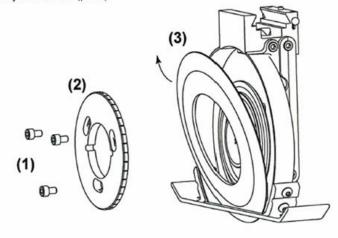
MANUFACTURER PROCEDURE



WARNING! Hand hazard. Blades are sharp. Avoid injury—wear

Avoid injury—wear stainless steel protective gloves when handling blades.

- Remove cartridge from knifeholder before beginning disassembly (p. 18). It is not necessary to remove the blade guard or the blade guard attachment
- With 4 mm hex wrench, loosen the three blade clamp screws (1). Rotate the blade clamp (2) counter-clockwise to remove it from the blade hub.
- Remove the knife blade (3).
- Install new or sharpened blade and reassemble the cartridge.
- 5. Tighten the blade clamp screws to 45 in lbs (5.10 Nm).
- Reinstall the cartridge, making sure that the blade cartridge arrow points in the same direction as the cant key label arrow (p. 17).



SITE JOB HAZARD ANALYSIS

Engage Brake and Rotate Blade to Secure Blade in Locked Position

Hazard Rating

Hazard Rating

Hazard Rating

g 5

Potential Hazards

Exposure to sharp or rough surfaces.

Existing Controls

Hazard IDs

Housekeeping: Ensure the work area is free of tools and objects that may pose a slip, trip, fall hazard

Hand : Gloves - Cut/Puncture Resistant

Break Torqued Bolts Loose



Potential Hazards

Exposure to sharp or rough surfaces.
Exposure to force using hand tools

Existing Controls

Hazard IDs

g Controls Hazard

Housekeeping: Ensure the work area is free of tools and objects that may pose a slip, trip, fall

hazard

Hand: Gloves - Cut/Puncture Resistant

Fully Loosen Bolts



Potential Hazards

Exposure to sharp or rough surfaces.

Existing Controls

Hazard IDs

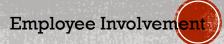
Housekeeping: Ensure the work area is free of tools and objects that may pose a slip, trip, fall hazard

Hand: Gloves - Cut/Puncture Resistant

POSTURE AND HAND POSITION

- Employee holds the knifeholder while loosening the blade clamp exposing him/herself to laceration and dropping the unit
- Engage the brake to prevent blade spin

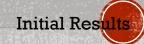




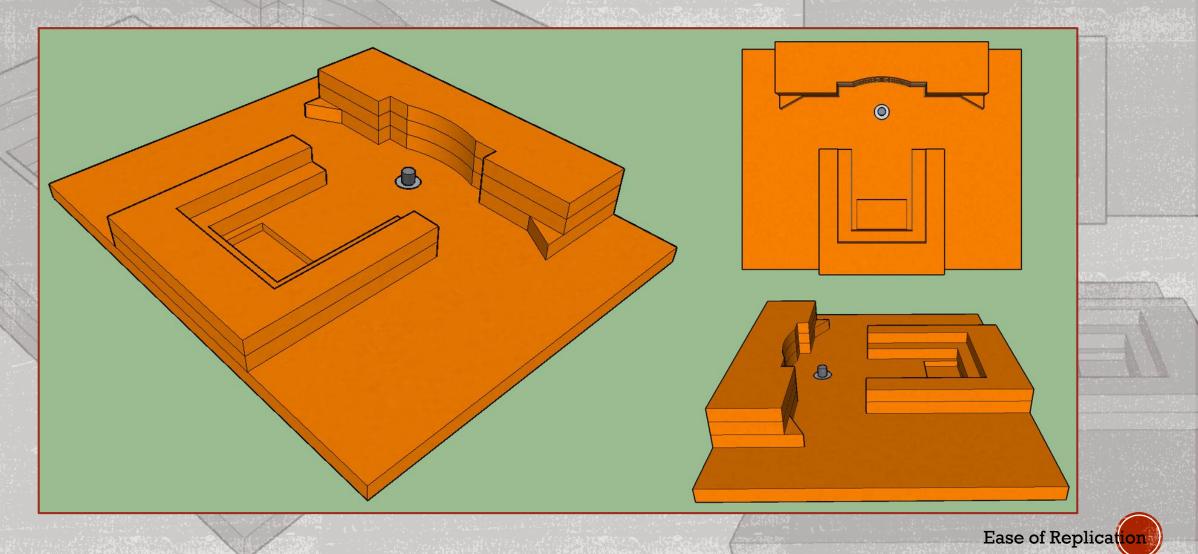
CAPA: ENGINEERED SOLUTION

- Eliminate the laceration potential with a molded jig securely holding the knifeholder
- Jig must:
 - Be compatible with all knifeholder types
 - Engage the braking button
 - Protect the sharp edge
 - Secure the knifeholder from dropping/movement
 - Be ergonomic in design





CAPA: ENGINEERED SOLUTION



SLITTER HANDLING JIG

Key Features:

- Protected knife edge
- Secures Tidland Maxcess class
 2 and 3 knifeholders
- Scalable to class 1 knifeholders
- Mounts to horizontal surfaces
- Non-slip backing
- 5S tool storage
- Mobile



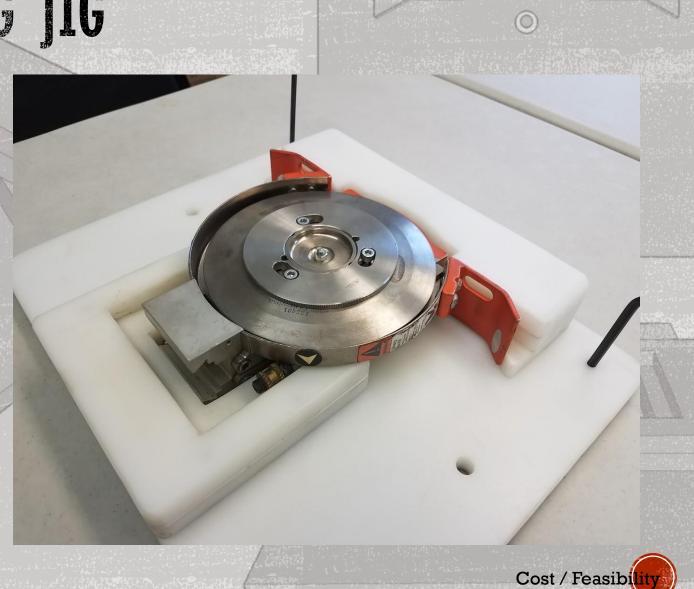


SLITTER HANDLING JIG

BILL OF MATERIALS

- $1 \frac{1}{2}$ " x 12" x 24" HDPE Sheet - \$27.72
- 1 12"x24" 8 mil rubber pad- \$4.15
- $1 \frac{1}{2}$ " x 2" threaded stock - \$0.30
- Hardware for mounting\$0.45

TOTAL COST: \$32.62



THE RESULTS

AN EASY, COST EFFICIENT, SAFE ENGINEERED SOLUTION MITIGATING KNIFEHOLDER BLADE CHANGE LACERATION RISK

AN EMPOWERED INCIDENT INVESTIGATION TEAM

ENHANCED PRIDE AND CULTURE

