

Upgrade 7993460

Black Belt™ Rotary Shear Caliper Blade Penetration Adjuster & Belt Life Enhancer Knife

Upgrade Applications

Applicable to any Black Belt™ Rotary Shear that uses metal shims as blade caliper adjustments.

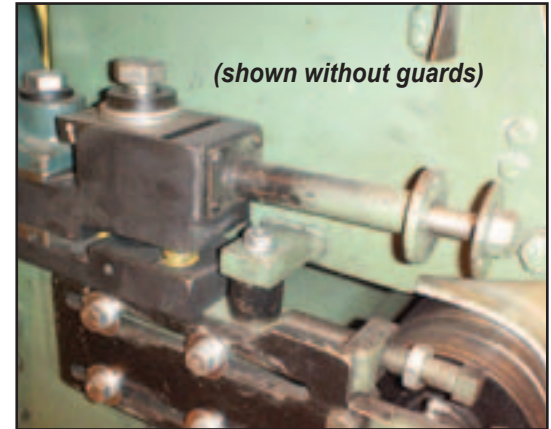
Upgrade Description

The present method utilized to improve the shear's cut quality is to remove the metal shims that are under the cylinder's pillow block bearings on both sides of the shear, which adjusts the cylinder blade into the black belt. This task, normally assigned to maintenance staff, causes downtime on the corrugator when performed during production hours.

The depth adjustment screw in this upgrade directly replaces the bearing block's shims, currently used on the shear, allowing the cut cylinder blade of the shear to be quickly lowered into the belt. This *caliper blade penetration adjuster* lowers the blade in increments of .002" (.05 mm) per single revolution of the adjustment screw. This allows minimum penetration of the blade into the belt for maximum belt life, yet assures complete severing of the web and a clean cut, as the belt wears due to repeated cuts (normal). This upgrade also allows adjustments to be made outside the machine while the machine is running and without the removal of guards. In addition, you can significantly increase the belt life of your Black Belt™ Rotary Shear with the installation of the belt life enhancer retrofit. This retrofit includes special close-tolerance, tapered roller bearings proven to extend belt life significantly.

Upgrade Benefits

- No machine downtime required for caliper blade depth adjustments
- Maintenance personnel are no longer required in order to adjust blade depth caliper – machine operators can now monitor and adjust cut quality themselves
- Adjustments are made outside the machine, eliminating need to shut down the shear or remove guards
- Adjustments can be made while the machine is running, minimizing downtime
- Close-tolerance, tapered roller bearings significantly extend belt life



Perform Your Own ROI Computation!

$$\text{ROI/year} = [(\text{cost of one minute of production corrugator downtime}) \times (45 \text{ minutes average caliper adjustment time}) \times (\text{number of caliper adjustments per year})] + [(\text{wages of maintenance personnel}) \times (45 \text{ minutes average caliper adjustment time}) \times (\text{number of caliper adjustments per year})] + [(\text{cost of one belt per year})]$$

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