# knife Drive Rack DC Power Status Monitor & Capacitor Bleed Down System

## Upgrade Applications

Applicable to Model I, II, and III DDCO knives. All levels must be up-graded simultaneousl on multi-level knives.

## Upgrade Description

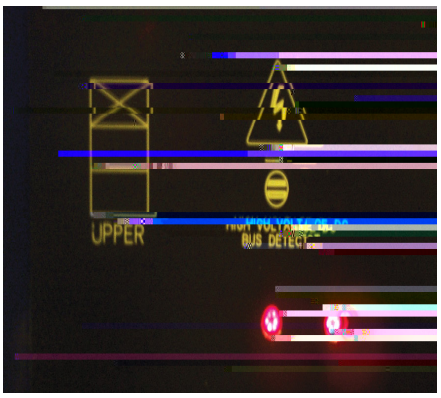
Under certain conditions, such as loss of one of the three phase po er legs to the knife, the e isting contactor-based capacitor bank bleed-do n circuit ma be rendered inoperable. Failure of this circuit can result in the failure of the 50- att, 100-ohm resistor used to bleed o the electrical energ stored in each of the drive rack capacitor banks. Due to an e cessive amount of heat generated, if the resistor ere to fail, further component damage can occur resulting in a potential re ha ard. If the bleed-do n resistor fails, the capacitors ill be unable to discharge during periods of non-operation. Having these capacitors charged creates a potentiall ha ardous situation to maintenance personnel should service be required on the knife. For these reasons, MarquipWardUnited has developed a drive rack DC po er status monitor and electronic capacitor bank regen/bleed-do n s stem.

The drive rack DC po er status monitor provides operator/maintenance personnel ith a visual indicator hich can be used to determine if the high voltage DC bus is present for each drive rack hen machine po er is applied. It also indicates if po er has been dissipated after the machine is po ered do n.

The electronic drive rack capacitor bank regen/bleed-do n s stem has proven to be more reliable than the older contactor-based circuit, and it functions even during machine po er phase loss situations hich can cause a contactor-based circuit to fail.

## Upgrade Benefits

- More robust and reliable capacitor bleed-do n device
- Visual indication of the presence of high voltage DC bus
- Additional safet feature for operators and maintenance personnel




CAUTION: Before orking on machine, perform lock-out procedure per Manual Operation Section.