

Clamshell (grab bucket) unloaders are the work-horses of the material handling industry and are used for unloading many materials including coal, grain, lime, sugar, and more. Capable of moving multiple tons of material in a single grab, it is no wonder why clamshells are relied on heavily. However, many of these giants have been in service for several decades with the original or the nearly original control systems in place. With antiquated control system components such as drives, load-share boards (black box), PLCs, or motors, one failure can mean devastating and costly down-time.

At Prokuma, we have successfully upgraded many clamshell unloaders and their supporting equipment's control systems including:

- Hold and close DC drives with unbalanced load sharing
- Enclosure rebuilds
- Programmable encoder-based limits for easy cable replacement
- Trolley drives with anti-sway technology
- Barge hauls with tension control
- Automatic dumping take-over
- Safety design
- IP cameras for monitoring conveyors and motor rooms
- PLC based control systems
- PLC-free control systems
- Operator chairs and joy sticks with dig mode
- Operator interface screens
- Tonnage reporting



Our designs are proven using several major brands and models including:

- Allen-Bradley [PowerFlex DC](#)
- Siemens [Sinamics DCM](#)
- ABB [DCS](#)

Call for a quote: 1 812-461-1681 or email questions to sales@prokuma.com