

Upgrade and Replace Obsolete Guiding Equipment:

We offer equipment and systems to improve and upgrade your existing guiding systems. Here are some of the advantages:

- ✓ Replace systems which no longer have spare parts
- ✓ Upgrade equipment that can no longer be repaired
- ✓ Drop-in replacement for obsolete products
- ✓ Improved operation
- ✓ Network connectivity
- ✓ Wireless, remote operation
- ✓ Onboard diagnostics

The following pages provide details of the possibilities to improve your web handling and strip guiding processes:

- Low thrust electro-mechanical actuators – see page 1
- High thrust electro-mechanical actuators – see page 2
- Controllers for electro-mechanical and hydraulic systems – see page 3
- Pneumo-hydraulic guiding systems – see page 4
- Hydraulic valves that are part of your edge guide system – see page 5
- Edge detectors and sensors – see page 6
- Hydraulic Power Units – see page 7

Page 1

Replace:



Upgrade your obsolete, brushed DC motor which is controlled by a remote motor drive.

Low thrust actuators, rated in 150, 300, 500 and 1,000 ft-lbs. of thrust utilize DC brushed motors. The brushes require maintenance. The manufacturers of the motors are gradually obsoleting the motors and therefore the actuators will also become obsolete.

Install:



Upgrade to an actuator with a brushless, DC motor which is controlled by an onboard motor drive.

Brushless motors require no maintenance. Onboard drives are managed by controllers, without the need for a third amplifier box

Page 2

Replace:



Upgrade your obsolete, brushed DC motor which is controlled by a remote motor drive. **High thrust actuators, rated in 2,000, 4,000, and 6,500 ft-lbs. of thrust utilize DC brushed motors.** The brushes require maintenance. The manufacturers of the motors are gradually obsoleting the motors and therefore the actuators will also become obsolete. The linear thrust is produced by a **ball-screw actuator** which under-performs as the thrust increases.

Install:



Upgrade to an actuator with a brushless, DC motor which is controlled by an onboard motor drive. **Brushless motors require no maintenance.** Onboard drives are managed by controllers, without the need for a third amplifier box.

The linear thrust is produced by a **Roller-screw actuators have higher duty cycles and longer life when compared to a ball screw design.**

Page 3

Replace:



Upgrade your obsolete controller. Older controllers have membrane keyboards and do not offer network capability.

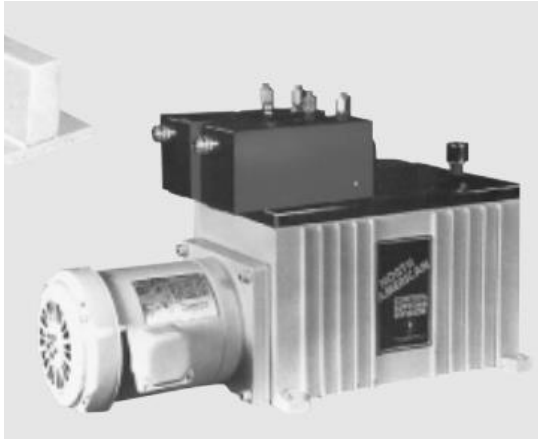
Install:



Improve your controller. EDGE controllers offer a color touchscreen HMI for operator interface, connect to all industrial networks, can control remotely via a wireless network, operates both electro-mechanical and hydraulic actuators.

Page 4

Replace:



Replace pneumo-hydraulic power units. These units have been obsolete for over 10+ years. Spare parts are also obsolete.



Replace Maxcess/Fife power units. These units have been obsolete for over 10+ years. Spare parts are also obsolete.

Install:



Install hydraulic power units with electronic servo valves that feature spool position feedback for superior close loop control. Connect with an EDGE controller to complete the system with state-of-the-art electronic edge sensors.

Page 5

Replace:



Earlier servo valves are now obsolete. OEM's do not offer repair options. These valves did not offer spool position feedback.

Install:



Replace your obsolete hydraulic servo valve with an electronic servo that includes spool position. The EDGE controller will monitor spool position of the valve and compare the transducer position on the guide frame or shifting base to the valve spool position to provide exceptional position control.

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Replace:



All guiding systems suppliers offer a variety of sensors. However, as guiding companies consolidate or go out of business, it becomes difficult to find replacements when the OEM's no longer offer models.

Install:



We have 30+ years of experience in the guiding industry. We are knowledgeable of the sensors offered by many manufacturers. We can find a replacement for your obsolete sensor and integrate it with your current controller or with a new EDGE controller. Current technology sensors typically far out perform those with technology from the 1980's



Page 7

Replace:



Hydraulic power units, installed decades ago, are still in service. Often, these units leak, produce excessive heat, and are difficult to maintain.

Install:



Current hydraulic power units produce less heat by utilizing efficient by-pass pressure relief valves. When paired with electronic servo-proportional valves, they vastly out-perform outdated units.