

# MOTION CONTROL SOLUTIONS



PRODUCT BULLETIN



 **Duff-Norton®**

# CONTROLS



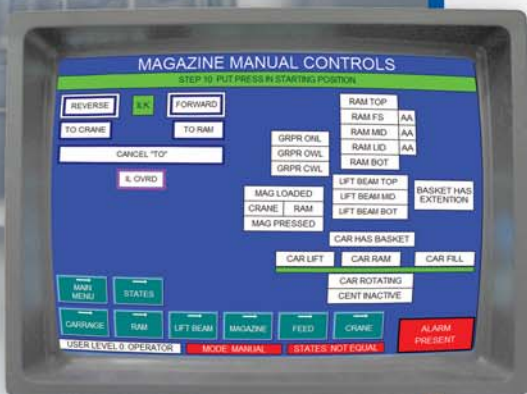
## Duff-Norton control systems provide...

- Fewer interfaces
- Better performance
- One integrated system
- Automated machine cycling
- Scalable hardware and software

Duff-Norton, the market leader in Screw Jack technology has been supplying customers worldwide with lifting devices for over 125 years and with customized control systems to enable precision movement for over 17 years.

## Why buy from Duff-Norton?

- Duff-Norton electronic control systems are based on programmable microcontrollers set on either a board or in an enclosure.
- All design, manufacture and programming is carried out by Duff-Norton engineers and technical personnel.
- At Duff-Norton we work closely with our customers to gain an understanding for the associated applications in order to develop the optimum solution.
- One stop shopping for relatively simple configurations or for the development of complex solutions to suit your specific custom requirements.
- Duff-Norton controllers can be mounted within a shock proof enclosure or integrated within the customer's existing control panels.



## Features & Benefits

Duff-Norton designs and manufactures a wide range of electronic logic control systems that are optimized for linear motion control and general automation applications. Duff-Norton can provide you with a complete turnkey solution to meet all your custom solution requirements. Our control panels are installed by our factory trained technical personnel therefore there is no need for customers to spend time fidgeting with wires or adding components.

**Duff-Norton control panels can be designed around 3 hp to 200 hp systems with ratings from 200 V to 575 V**

### Standard Features:

- UL approved, heavy-duty NEMA 3R enclosure
- Manual and touch screen interface
- UL approved control panels on request
- Spacious layout for simple installation

### Standard Benefits:

- Improving speed and precision
- Simplifying operation and operator interface
- Automating repetitive tasks
- Complete turnkey solution

## Electronic control systems support a wide range of applications:

Duff-Norton has designed and provided numerous control panels with simple operator controls, limit indicators, position potentiometer, position feedback, along with the required “in-sight” disconnect motor and motor circuit protection to make complying with safety regulations and electrical codes easy.

### Industry specific expertise in the following areas:

- Extend, retract, lifting and lowering equipment
- Position synchronization
- Position control

### Software:

- PLC Panels (Siemens, Allen Bradley, Rockwell Automation)
- Operator Interface (Siemens)
- AC Inverters (Siemens, Allen Bradley, Yaskwa)

### Credential:



For more information on how Duff-Norton can provide you with a custom solution please contact

+1 704.588.4610 or e-mail [duffnorton@cmworks.com](mailto:duffnorton@cmworks.com)

**DUFF-NORTON offers complete turnkey solutions for applications in the following markets...**



## **RAIL MAINTENANCE EQUIPMENT**

Duff-Norton designs and manufactures a wide range of Rail Shop Equipment for performing maintenance and inspection work on locomotive and rail car transport vehicles. Duff-Norton Rail Shop Equipment products support a broad range of lifting heights, weights and vehicle dimensions. Our products consist of in-ground lifting systems, mobile and fixed lifting jacks, drop tables, car hoists, turntables and workshop equipment. Duff-Norton will design and install a custom system that's tailored to fit your lifting needs.



## **STAGE & THEATRE**

Duff-Norton designs and manufactures a wide range of equipment for stages and theatre applications. We use acme screws, winches, hoists and our control panels in the design and installation of stages, moving props, lowering podiums or shifting floors. Duff-Norton offers a total solution that conforms perfectly with your demands and requirements. Our actuators and lifting elements are fast, efficient, reliable and safe. These systems require only a minimal amount of routine maintenance each year, which can be scheduled for times when the facility is not normally in operation.



## **MOTION SOLUTIONS**

Duff-Norton is a designer and manufacturer of complete turnkey solutions for a variety of industries such as aluminum, steel, agriculture, construction, communications, energy, food & beverage and industrial machinery. If you want to tilt an object fixed at one end, lift, lower, roll, slide, open or close an object or if you have an application that requires periodic adjustment. Duff-Norton can use linear actuators and electrical cylinders to design a custom solution that's tailored to your specific needs.



P. O. Box 7010 • Charlotte, NC 28241-7010  
Phone: +1 800.477.5002 • +1 704.588.4610 • Fax: +1 704.588.1994  
E-mail: [duffnorton@cmworks.com](mailto:duffnorton@cmworks.com) • [www.duffnorton.com](http://www.duffnorton.com)

