

# Automation Systems Retrofit Solutions



**Accountable. Affordable.  
Results-Oriented**

With over 40 years of application and engineering know-how, you can rely on CMC to provide engineered drives and servo system solutions to fit your needs— including productivity-enhancing solutions for steel processing, including coating, coiling, cut-to-length, galvanizing, tension leveling, drawing, pickling, and slitting... to a wide range of converting solutions— including printing, laminating, coating, slitting, embossing, unwinding/winding, sheeting, and packaging.



Plus, unlike others, we also maintain a family of motion control product solutions, ranging from AC and DC drives to brush and brushless servo motion controllers, ultrasonic sensors, human machine interfaces (HMI), motors, servo motors, encoders, web tension equipment, and from PLCs to PC-based controls.

For a single source of responsibility for both automation products and systems, don't take chances. Think CMC first.

COMPANY	PROBLEM	SOLUTION	COST
<b>Ferro Union: Moore, Baginski</b>	Customer had repeated problems with an older motion controller.	Replaced existing motion controller with an engineered industrial-based motion controller and interface. CMC engineered and installed a package in about two weeks.	<b>\$15,000</b>
<b>Oakmont WWTP: Baginski</b>	Obsolete digital drive system.	CMC built and installed a drive retrofit system in less than two weeks.	<b>\$5,900</b>
<b>Lancaster Steel: Bass.</b>	Part of a scheduled upgrade, recommended by CMC, to remedy current issues and prevent future problems related to existing controller.	CMC was able to quote on and close a retrofit package on an existing CMC '95. The older unit was replaced with a CMC' 2000 PC-based motion controller with touch screen.	<b>\$35,000</b>
<b>Ryerson Steel: Robson</b>	Customer wanted to retrofit existing recoiler drive system to utilize motion technology and features.	CMC replaced a PM-12 and MOP configuration with a DigiMaster® 2000 Packaged Drive System, enabling CMC to remove the MOP and all associated amplifier cards. The diameter calculation is now a feature that is accomplished through software.	<b>\$16,535</b>
<b>Robinson Steel: Robson, Bass.</b>	Scheduled retrofit of an existing obsolete motion controller.	Customer has had several issues with older motion controller. CMC engineered a new PC-based motion controller with touch screen. The project also consists of adding another mode of operation (pull through) and allowing for a future drives retrofit.	<b>\$43,390</b>
<b>Noll Manufacturing: Moore</b>	Obsolete drive on sludge conveyor.	CMC engineered a replacement drive system to act as a built-in replacement. The customer utilized all existing signal and control wiring in their current location. PaceMaster®3, three-phase drive.	<b>\$5,000</b>
<b>OilGear Co.: Richardson</b>	Retrofit panel required.	Aximate/C1	<b>\$11,491</b>
<b>Oberg: Richardson.</b>	Grinder retrofit required.	Servo	<b>\$10,302</b>

## AUTOMATION SYSTEMS

7550 Hub Parkway  
 Cleveland, Oh 44125-5794  
 Call: 1-800-524-8800 or 1-800-321-8072  
 Fax: (216) 642-2100  
 Visit Us: [www.cmccontrols.com](http://www.cmccontrols.com)

