Hello!

Are you aware that CMAFH serves the MRO industry with custom designed systems and retrofits relating to fluid power, safety, mechanical and electronic motion control? If you have a large scale project, a retrofit or are simply struggling to find a qualified, reputable supplier who understands your needs, please contact me directly. I will respond to your inquiry within 24 hours.

CMAFH has over 30 years of experience in the design and manufacture of custom motion control systems. We specialize in the following industries:

- Packaging
- Food & Beverage
- Steel Mills, Forging/Slitting
- Automotive
- Heavy equipment
- Industrial machinery
- Plastics
- More

Give us a chance to serve you, we promise quality engineering and craftsmanship, and we are committed to making your experience with us easy and enjoyable.

Sincerely,

Terry Mullen
Terry Mullen
terrymullen@cmafh.com
MRO Sales Manager
CMA/Flodyne/Hydradyne
1000 Muirfield Drive
Integrated Turnkey Hydraulic System

- Custom Power Unit to Meet Customer Specifications
  - Reduced Noise Levels
  - Increased Tonnage
  - Stock Inventory Parts Used
  - Components & Wires Tagged/Identified Including Terminal Panel
  - Installation and Start-Up at Customer Facility
- Pump Runs 4 Bonding Presses for Automotive Clutches
- 3 Custom Manifolds for Speed and Tonnage Controls, One Remotely Mounted
- 5 Gallon Accumulator & Safety Block to Increase Cycle Rate, Protect System
- Heavy Duty Reservoir and Isolation Mounts to Maintain Low Noise Level
- Off-Line Filtration and Cooling Loop
- Digital Read-Outs of Pressures and Temperature for Customer Monitoring

A nother Custom Solution by CMA/Flodyne/Hydradyne
L-Shaped Hydraulic Power Unit

- 50 HP Motor
- Variable Volume Pressure Compensated Piston Pump
- L-Shaped Reservoir
- Air over Oil Heat Exchanger

A nother Custom Solution by CMA/Flodyne/Hydradyne
3600 Ton Expander

- Operates 48” Bore Hydraulic Cylinder to expand and size to +/- .001” Large Steel Rings to be used for Bearing Races
- 215 GPM, Max Pressure 5000 PSI
- Fixed & Variable Volume Hydraulic Pumps
- Black Oxide Coating on Manifold for both Appearance & Reduced Painting Time
- Incorporates Hydraulic Logic Cartridge Technology & Standard NFPA Directional Valve Technology to Accommodate Large Flow Rates & Close Tolerance Positioning
Forging Press Manipulator Control

- Upgrade/Rebuild of 1960’s Era Forging Manipulator
- Designed Two Custom Ductile Iron Manifolds for Fewer Leak Points
- 125 HP Electric Motor with Horsepower Limiting Remote Control Operated Piston Pumps
- Offline Filter/Cooling Loop Design
- Onboard Electronic Proportional Valves for Precise Control from Remote Operator Station
- Repaired/Rebuilt some Components for Significant Cost Savings
Steel Mill Furnace Ladle Control

- Custom Ductile Iron Manifold
- Includes
  - Tap Hole: Open/Close & Lock Control
  - Ladle: Lift & Swing Control
  - Roof: Proportional Swing & Lift Control
- Each Station Includes Manually Operated Isolation Bodies under each Valve for Safety
Accumulator Stand

- Stand With Seven 15 Gallon Bladder Accumulators
- System Designed for Emergency Municipal Water Treatment Center
Hydraulic Test Stands

- Integrated System
- Utilizing Structural Aluminum Framing
- Electrical Industrial Control Products
- Pressure & Temperature Feedback Transducers
- Flow Feedback via Positive Displacement Flow Meters
- Project Included Install, Set-up & 1st Run
Hydraulic Power Unit With Low Profile Reservoir

- Variable Volume Pressure Compensated Piston Pump
- Single Station D08 Manifold
- Rear Mount Case Drain Cooler
- Dual Return Line Filter
- Low Profile Reservoir
125 HP Power Unit

- Modular PLC
- 15” Touchscreen
- Fuseless Motor & Controls Protection
- Fully Integrated Unit
  Removing the Need for Field Wiring
- Network Printing Capability
- Programmed, Wired, Plumbed
  to Customer Specifications
Single Point of Responsibility

Customized Solutions from One Source

- Mobile Machinery
- Plant Equipment
- Factory Automation
- Renewable Energy

CMA/Flodyne/Hydradyne
Structural Aluminum Framing
Automotive Assembly Line Flow Rack

- Standard Bin or Custom Carriage
- Adjustable Angles & Height
- Holds up to 300 lb per foot
- Custom Length & Width

A nother Custom Solution by CMA/Flodyne/Hydradyne
Multiple Workstations

- 37 Custom Workstations
- Internal Pneumatic Header Design
- On-site Assembly & Testing
- Flexibility and Safety
- Butcher Block Worktops

A nother Custom Solution by CMA/Flodyne/Hydradyne
Packaging Guard

- All Smooth Profiles
- Rounded Corners
- Safety “No Pinch” Handles

A nother Custom Solution by CMA/Flodyne/Hydradyne
Multiple Conveyor Flow Rack

- Guided Rollers
- Attached Work Surface
- Mount for Assembly Descriptions

A nother Custom Solution by CMA/Flodyne/Hydrydyne
Flow Rack

- Lean Technology
- Easy Access
- Overhangs Workstation
- Visual System for Part Replenishment

A nother Custom Solution by CMA/Flodyne/Hydradyne
Custom Guard

- 1” Black PVC Coated Mesh
- Detent/Handle
- OSHA Approved
- Adjustable Conveyor Height

A nother Custom Solution by CMA/Flodyne/Hydradyne
Packaging Guarding

- Full Access Guarding
- Canopy Doors
- Degree Profiles

A nother Custom S olution by CMA/Flodyne/Hydadyne
Custom Laboratory Enclosure

- Self Standing Door
- Temperature Control
- Noise Control
- Humidity Control
Electrical Systems
Another Custom Solution by

Custom Control Panel for Mobile Truck

- Mobile Railway Track Welding Truck
- AB PLC
- Phoenix Contact Power Supplies
- Eaton XT Contactors
- Moeller FAZ Circuit Breakers
- Rexroth Amplifier Card VT-VRRA1
- Eaton 30.5mm Pushbuttons

A nother Custom S olution by
Conveyor Control Panel

- Integration of
  - Relay Control
  - PLC
  - MFD
- Complete System Built to Customer Specifications
  - Design
  - Program
  - Build
  - Commission

Another Custom Solution by

A another Custom Solution by

CMA/Flodyne/Hydradyne
Custom Enclosure: DC Breaker Cabinets

- 28 Identical Rittal Cabinets with Custom Bus Bar Assemblies
- First assembled as a Solid Model for Customer Approval & Proof of Concept
- Used Standard Frame Components for Rapid Design, Assembly, Delivery

Another Custom Solution by CMA/Flodyne/Hydradyne
Industrial Control Panel

- Fuseless Technology
- Turnkey System
  - Design
  - Programming
  - Build
  - Debug

Another Custom Solution by CMA/Flodyne/Hydradyne
Industrial Control Panels

- Fuseless Motor Control
- Turnkey System
  - Design
  - Build
  - Commission

Another Custom Solution by CMA/Flodyne/Hydradyne