

# Custom products for forestry



## Power Unit Systems

Continental power units incorporate high quality, high performance Continental pumps, directional, proportional, pressure and flow control valves, reservoirs and other accessories to provide a complete, reliable, durable and quiet power source for any hydraulic system.

All Continental Hydraulics Power Units are designed to insure long life and low operating costs.

When you're in need of a professionally designed customized hydraulic system, qualified Continental engineers will work with you and help recommend the configuration to best fit your specifications and requirements.

Our Standard HPU's are designed to offer exceptional long-term value. All our units are designed to ensure optimum system flexibility, easy maintenance backed by our Industry leading Warranty.

Every Continental power unit is built to stringent quality standards and backed by Continentals professional expertise and service.

Wither you need a simple small HPU, large Central System or a high-tech Smart Systems Continental is the perfect partner.

## Power Unit Capabilities

- Capacity from 1 to over 5000 gallons (JIC style, L-shape, Overheads, Verticals) Steel, Stainless Steel or Aluminum
- System flow from up to 500 GPM, and pressure to 5000 PSI
- Test up to and beyond 300 HP including international voltages
- Complete turn key systems
- Performance Data acquisition technology for predictive maintenance
- Mounted and wired starter panels (complete turn key stems)
- SAE ports, welding, flange and metric ports
- Component flushing and cleaning - Fluid particle count to your level of ISO specification
- Complete set of engineering drawings for custom approval
- Added weldments for a complete project



One sample of many different size power unites that we can create.

## Other products from Continental:

### Hydraulic Variable Volume Pumps

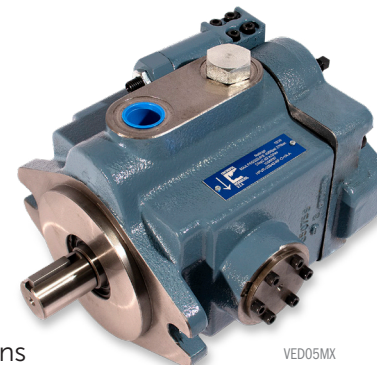


#### Vane Pumps

- Flow Rates to 75 GPM on Single pumps
- Pressures to 3000 PSI
- Low Noise
- Contamination and Lubricity Tolerant
- Multiple Control options
- Great Suction Characteristics

#### Piston Pumps

- Flow Rates to 30 GPM on Single pumps
- Pressures to 4000 PSI
- Low Noise
- Contamination and Lubricity Tolerant
- Interchangeability
- Multiple Control options



## Making the difference at Continental

Dynamic realities made of **people who care**, respond fast and deliver both **engineering excellence** and **application know-how**. And most important to our customers, is to be agile and **easy to do business with**.

These are the four pillars Continental have built their reputation on and continue to invest in the pursuit of engineering excellence within our markets.

From Hydraulics to Motion Solutions, from the Mid-West to the World, from analogue control logics to computerized electronics and AI, we are riding the wave of technology in our fast-changing markets.

Continental has been at the forefront of Power Transmission innovation for over 60 years and is again – a leading force in transforming the industrial world we live in.



### Global Support

As a member of the Duplomatic Group. The distribution and service network is quick, reliable, and responsive to our customer's needs. Rest assured that no matter where you're located, we will be there with unrivalled products and technical expertise.



### Technical Support

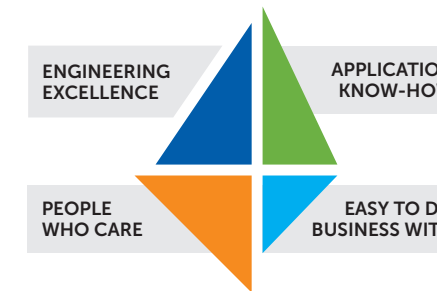
Quality products are only part of Continental Hydraulics and Hydreco's commitment to our customers. We also provide advisory, planning, and design services specifically geared to your application and backed by on-time delivery and full repair and test facility capabilities.



### Exceptional People

Continental engage and inspire their workforce to deliver on our four pillars of difference, providing the very best in what we do. Our culture, like everything at Continental, is made possible by each employee's contribution. We are proud of the Continental we've built together as a united team.

## Continental's 4 Pillars of Difference



Jeff Clausen | Assembler



Industrial Solutions

**CONTINENTAL HYDRAULICS INC.**  
4895 12th Avenue East, Shakopee, Minnesota 55379  
T 952-895-6400 F 952-895-6444  
E sales@conthyd.com [www.continentalhydraulics.com](http://www.continentalhydraulics.com)



Mobile Solutions

**HYDRECO INC.**  
4895 12th Avenue East, Shakopee, Minnesota 55379  
T 952-999-9584 F 952-895-6444  
E sales-us@hydreco.com [www.hydreco.com](http://www.hydreco.com)

CONTINENTAL HYDRAULICS AND HYDRECO ARE PROUD MEMBERS OF THE **DUPLOMATIC** GROUP

© 2019-2020 CONTINENTAL HYDRAULICS Inc., All Rights Reserved. Specifications/appearance are subject to change without notice.

12121212 Rev.1 11.19



ENGINEERED AND APPLIED SOLUTIONS

## We're in the Forest Industry.

Turning innovative products into dynamic solutions for force and motion, hydraulics and electrical systems.



[continentalhydraulics.com](http://continentalhydraulics.com)  
[hydreco.com](http://hydreco.com)

*moving forward together – engineering in motion*



## Solutions for forestry

# There's no time like downtime in Forestry

Continental Hydraulics are engineered to provide robust, flexible and configured solutions to keep you up and running.

Our customers tell us that reducing downtime is their number one issue. That's why absolute reliability is so important to maintain productivity and efficiency. At Continental we're your partners who work with you to achieve the product performance that you deserve when moving or processing timber.

Our advanced control technology within our valves allows for flexibility and configuration to ensure high performance under heavy and constant loads.

Customers today expect and need solutions that make their daily operations simpler, more flexible, faster, more reliable and affordable. At Continental we respond to these challenges and build-in the technology and expertise that exceed these demands.

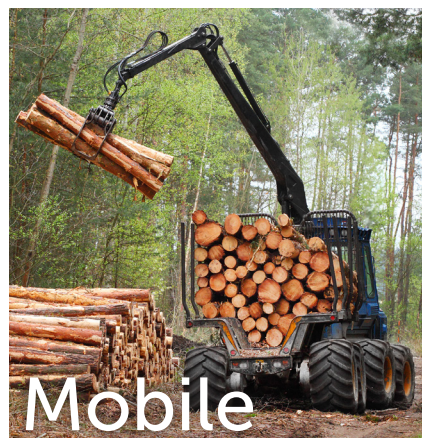
Continental draws on rich engineering experience and in-depth expertise to add intelligence – to create smart solutions that not just allow customers to react swiftly to any given situation, but to anticipate them.

Relax in the knowledge that Continental have your fluid power applications under control.



Industrial

**Industrial**  
Edgers  
Gang Saw  
Grade  
Pallet  
Pulp/Paper  
Resaw  
Rail Tie  
Saw/Planer Mill  
Stave  
Trimmer/Sorting  
System



Mobile

**Mobile**  
Chipper  
Feller Buncher  
Forwarder  
Grinder  
Harvester Processor  
Loader  
Mulcher/Masticator  
Resaw  
Skidder  
Stroke Delimber  
Yarder

### Hydraulic Actuator Products

- Directional Control / Proportional Control / Servo-Proportional Control
- On-Board and Off-Board Valves
- Open and Closed Loop Solutions
- IO Link and Fieldbus Options
- Mono block / Sectional mobile valves to 120 GPM
- Variable and fixed displacement pumps to 5000 PSI

### Electric Actuator Products

- In Line or Parallel Motors Mounts
- Lead Screw / Ball Screw / Planetary Roller Screw
- Stepper / Servo / Brushless Drives and Motors

## Industrial Products for forestry



### ON-OFF Directional Control Valves

- Direct and pilot operated valves with all mounting interface D03 (NG6) to D10 (NG32)
- IO-LINK communication, surge protection, DIN Connection, Terminal Conduit Box and Deutsch connections
- Different function options are available: soft-shifting, fast-shifting, power-saving; as well as zinc-nickel coating that ensures a salt spray resistance up to 600 hours

### Proportional Valves

Five styles of proportional valves in multiple mounting configurations offers maximum design flexibility; this ensures that you can get the correct valve to match your application.

- Available with digital integrated electronics and LVDT position transducer or robust valves with remote mounted Electronics for Open and Closed Loop control over your motion requirements.
- Variety of Control interface Options: IO Link / Ethernet IP / EtherCAT / Profinet / PROFIBUS DP / CAN Open / Powerlink / Hazardous Location – Explosion Proof.
- They control positioning and speed of hydraulic actuators
- Easy to install
- Vibration and shock resistance to 30g.
- IP 68 Environmental Protection Rating
- Step response times as low as 8ms
- User Friendly GUI program to assist in troubleshooting as parametrization
- Pressure Control Valves, Flow Control Valves and Directional Control Valves

### Electric Actuators

- Customizable solution even for one single piece
- All the cylinders can be equipped with in-line or parallel motor
- Different types of screws for motion transmission
- Anti-rotation system with double sliding blocks

**Standard Plus - ECS3** Sizes: 32-50-80

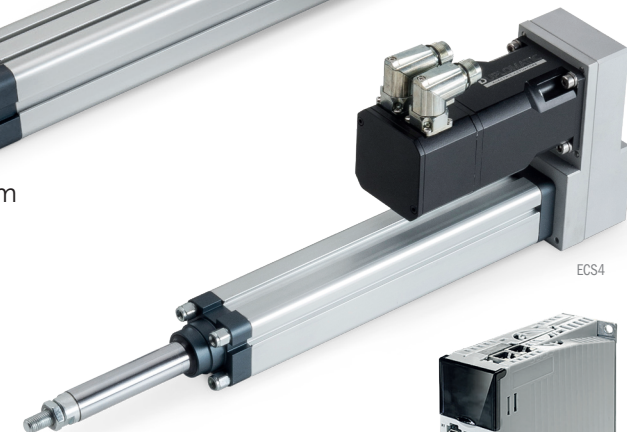
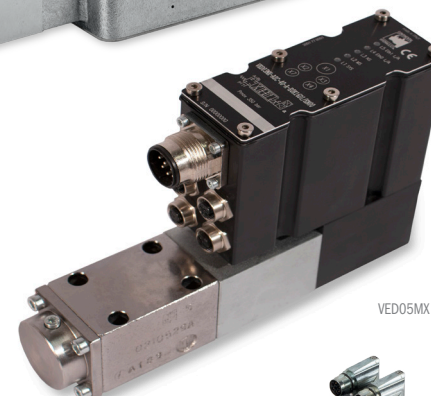
**Max:** Axial force: 20,000 N / Speed: 1,300 mm/s / Stroke: 1,400 mm

**Power - ECS4** Sizes: 80

**Max:** Axial force: 50,000 N / Speed: 800 mm/s / Stroke: 1,400 mm

### Drives - SCK

The drives allow to control the motor. Digital inputs are available to set the drive at the optimum for the specific application. As example, it is possible to enable or reset the drive, select the control mode, switch electronic gear ratio, switch gain, set the homing, a quick stop, set end-stops, etc. Digital output can be used to monitor axis status.



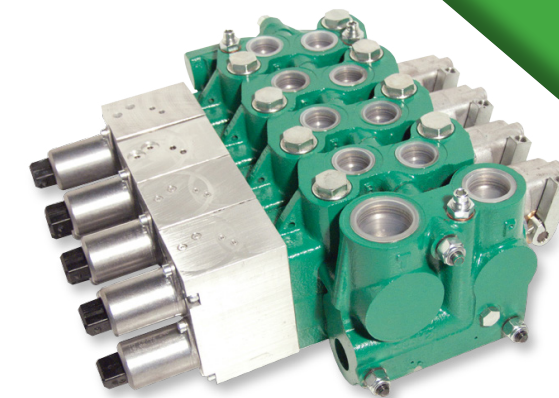
## Mobile Products for forestry



### Directional Control Valves

For mobile, materials handling and other applications.

- 30 to 450 l/min (7.9 to 119 gal/min) and up to 250 bar (3500 psi) system pressure
- Parallel, tandem and mixed circuits available depending on model
- Mono-block and sectional high grade iron housings
- Wide range of spool types and metering characteristics
- Operating systems include manual, hydraulic, electro-hydraulic and pneumatic
- Integral system relief valve together with individual port relief and make up options available



### Pilot Control Valves

- Remote pilot operation of directional control valves with user-friendly, low effort controls
- Single, multiple and joystick controllers
- Ergonomic designs
- Range of accurate, low hysteresis control curves
- Dedicated pilot valves, with magnetic detents, to control 2 or 3 spool directional valve for wheeled loader applications
- Range of valves with foot pedal operation



### Handles, Petals & Electrical Joysticks

- Ergonomic multi function handles for both safe and accurate man/machine interface
- Knobs and levers with or without electrical switches and range of buttons
- Ergonomic designs
- Multifunction handles with extended button area
- Dedicated safety switch functions; with button or capacitive sensors safeTgrip™ operation
- For use in electronic control systems
- With or without programmable functions
- On Off / Proportional
- Analogue 0:5V
- PWM
- CAN-bus



*moving forward together – engineering in motion*

Contact us for all your fluid power needs 952-895-6400

Contact us for all your mobile power needs 952-895-6400