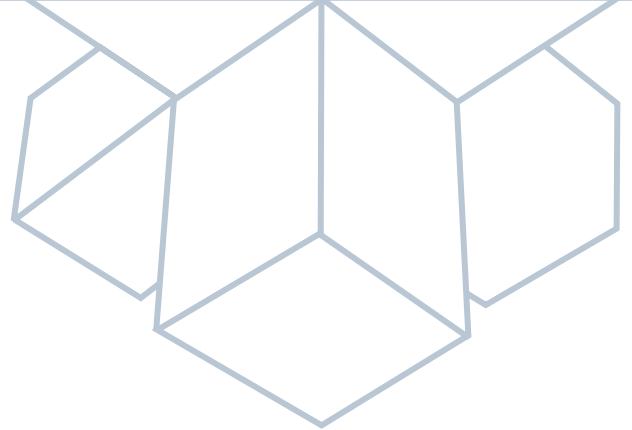




Your obvious partner...  
in pulp and paper



# Chemical Pulping Technologies

DUALC™ cooking technology reduces steam consumption at increased yield and pulp strength.

HI-Q® screening using the Luthi™ rotor reduces energy consumption at extended screen basket and rotor life time.

Compact Press® systems reduce building space and saves capital cost at improved washing efficiency and reduced environmental load.

CB Washer™ systems are cost effective and deliver best value for money at lower production rates.

Coru-Dek® technology is the state-of-the-art drum washer with unchallenged performance.

DUFLO® pump with integrated vacuum pump is the most efficient medium consistency pump in the market.

DUAL™ mixer has impressive mixing performance on O<sub>2</sub>, ClO<sub>2</sub> and O<sub>3</sub>.

DUALOX® process improves delignification and increases total yield at reduced consumption of bleaching chemicals and lower environmental load.

DUALD™ technology enhances hardwood bleaching by decreasing consumption of bleaching chemicals and increasing the brightness ceiling for hardwood at reduced environmental impact and improved brightness stability.

*Delivering complete fiber lines for production of chemical pulp from wood or non-wood fiber raw material using the best technology available.*

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# Stock Preparation/Recycle Technologies

*GL&V supplies complete stock preparation systems, with industry-leading technologies particularly in hydrocyclones and refining.*

[stockpreparation@glv.com](mailto:stockpreparation@glv.com)

## Pulping

The robust and reliable pulpers for batch, continuous and under the machine applications are used for disintegrating virgin and recycled fibers as well as broke.

## Refining

GL&V supplies a full range of low consistency refiners based on 150 years of experience of the Double Disc technology in more than 5,000 installations. The DD®6000 refiner is the most advanced refiner in the market and enables reduced power consumption at enhanced pulp quality and simplified maintenance.

GL&V supplies cast fillings to all major low consistency refiner manufacturers (Beloit-Jones, Twin Flo, Conflo, etc). We are also a supplier of specialty refiner fillings which include milled bar plates, multi-disk refiners, beaters, jordans and other refiners.



## Screening

Based on experiences from our extensive installed base in different applications, our overall design, rotors and screen cylinders are continuously being improved. The result is increased screening efficiencies at lower power consumption and reduced wear. The MR screen can be used in both thick stock screening and recycle systems. The M/UF screens protect the headbox feed/dilution system. The UF screens provide ultra fine screening in recycled facilities.

## Stock cleaning

GL&V provides a complete range of cleaners and cleaner systems designed to remove impurities. Removal of light weight material, air and fiber fractionation are also possible. Each system is tailor-made to ensure maximum feasible product quality with high efficiency, low energy consumption and minimum loss of fiber and fillers. The Cellico Twister® technology allows for cleaning at enhanced consistencies with maintained or improved cleaning efficiency compared to traditional cleaners.

## Approach systems

GL&V delivers complete approach systems for existing or new headboxes.

## Stock dewatering and fiber recovery

GL&V supplies all types and sizes of disc filters suitable for all applications. For special applications, drum deckers and bow screens are available. GL&V has the widest range and installed base of vacuum disc filters in the world. Our Cellico™ Centerdisc® filter handles high inlet consistencies (<1.5%) across the entire range of pulp freeness.

The high capacity fiber recovery systems deliver excellent filtrate quality, reduce the consumption of fresh water and lower the load on the waste water treatment system.

## Filler and fiber recovery

The Cellico™ pigment saving system (CPS™) Atrex reduces the operating expense by treating cleaner reject such that filler material and fiber can be reused instead of being discharged to the sewer.



*The vast installed base supplied and serviced by GL&V continuously promotes development of numerous rebuild and upgrade solutions.*

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The rebuild and upgrade solutions exploit the in-built potential of existing equipment and systems. Utilizing this technology existing equipment/operations can attain modern performance levels with minimal investment.

### DUALOX oxygen delignification

- Highest feasible kappa number reduction
- Improves pulp quality
- Very short payback

### DUALD hardwood bleaching stage

- Reduces chlorine dioxide consumption
- Increases pulp brightness at improved stability
- Reduces environmental load by less AOX to sewer

### DUFLO impeller upgrade

- Increased capacity
- Reduced energy consumption

### Luthi rotor for pressure screens

- Reduces power consumption
- Reduces wear on rotor and screen basket
- Available for most pressure screens



### Refining

- New or upgrading of existing refiners
- Reduced energy consumption
- Increased refiner segment life
- High efficiency refiner segments

### Cleaning

- Modification kits increase capacity and performance
- The Celleco Twister system reduces power consumption at improved cleaning efficiency
- Continuous reject control cleaners (CRC™) increase fiber recovery

### Disc filters

- Cassette filter segments for reliable operation and easy maintenance
- Filter bags for superior filtrate quality and high efficiency
- VDF filtrate valve for improved performance

### FloBed reactor addition to existing activated sludge

- Accepts high and varying load
- Improves waste water treatment efficiency
- Boosts capacity of existing treatment system





*GL&V will work with you for successful project implementation...your obvious partner in pulp and paper.*

# experience solutions innovation



GL&V Pulp and Paper, a division of the Canadian based company GLV Inc., is a global enterprise in technology and processes for manufacturing of pulp and paper as well as in production and treatment of fresh, process and waste waters.

The GL&V Pulp and Paper group is one of the largest suppliers of pulp and paper production equipment and a world leader in equipment rebuilds, upgrades and optimization.

GL&V Pulp and Paper group provides complete solutions for production of pulp and manufacturing of paper. The Water Group supplies entire systems for production and management of fresh and process waters as well as for efficient treatment of waste waters and effluents in the pulp and paper industry. The GL&V technology and processes are designed for accomplishing the lowest capital and operating expense combined with the highest feasible total efficiency of the supplied components and process systems.

