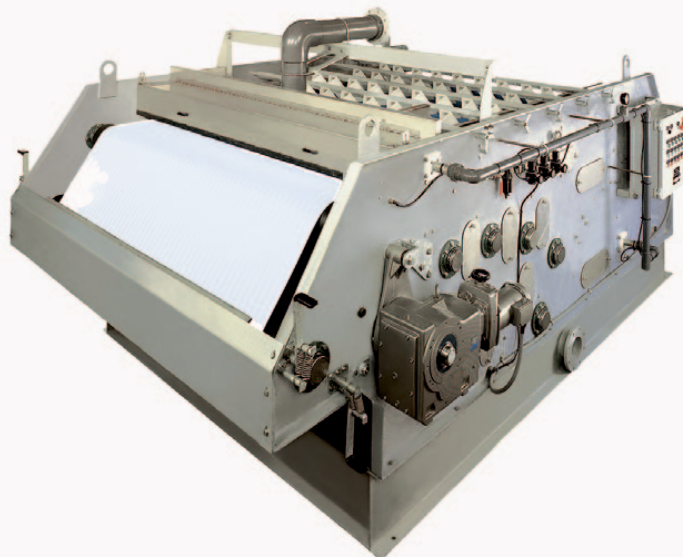




# Alfa Laval AS-H Belt Press G2

## Sludge dewatering machine



### Application

The Alfa Laval AS-H Belt Press G2 is a sludge dewatering machine suitable for all municipal wastewater sludge types and a wide variety of industrial solid/liquid separation applications, such as paper, petrochemical, mineral, food processing, pharmaceutical and chemical. The G2 belt press incorporates variable energy mixing, flocculation, gravity drainage and pressure filtration within a single mechanical framework.

### Working principle

Its operating principle is to condition the feed sludge with a poly-electrolyte and drain the flocculated sludge over an endless, horizontal porous filter belt. The thickened sludge is then sandwiched by a second filter belt before further dewatering by a series of decreasing diameter rollers. Final moisture removal is achieved by shear rollers arranged to give minimum 180 degree belt wrap in order to optimize dewatering.

### Features

- Variable speed drive
- Optimized frame design in galvanized carbon steel or stainless steel
- Radial grid and perforated roller to accelerate dewatering
- Full pressure dewatering zone
- Highly durable chicanes – easy to operate and maintain
- High performance dewatering belts
- Pre-installed pneumatic system for automatic belt tensioning and steering

### Benefits

- Thorough uniform mixing of polymer into sludge
- Higher volumetric throughput and solids loading
- Lower polymer consumption
- Less power consumption as there is no requirement for an additional flocculation tank/mixer

- Enclosed design available ensures any odours, aerosols and spillages are contained
- Higher cake dry solids
- Better filtrate quality
- Better process performance

#### Bearings

- Extended lubrication cycle (monthly)
- Positioned for easy installation

#### Wedge zone

Wedge dewatering zone initiates the application of pressure to the dewatering process.

#### Belt alignment

SmartPress™ Belt Alignment System ensures continuous, smooth guidance control without the need for operator intervention.

#### Belt tensioning

- Operator specified belt tensioning is automatically maintained, recognizing subtle condition variations such as belt stretching or process changes

- Easy to operate and maintain
- Low air pressure and airflow requirements ensure system is inherently safe

#### Dewatering zones

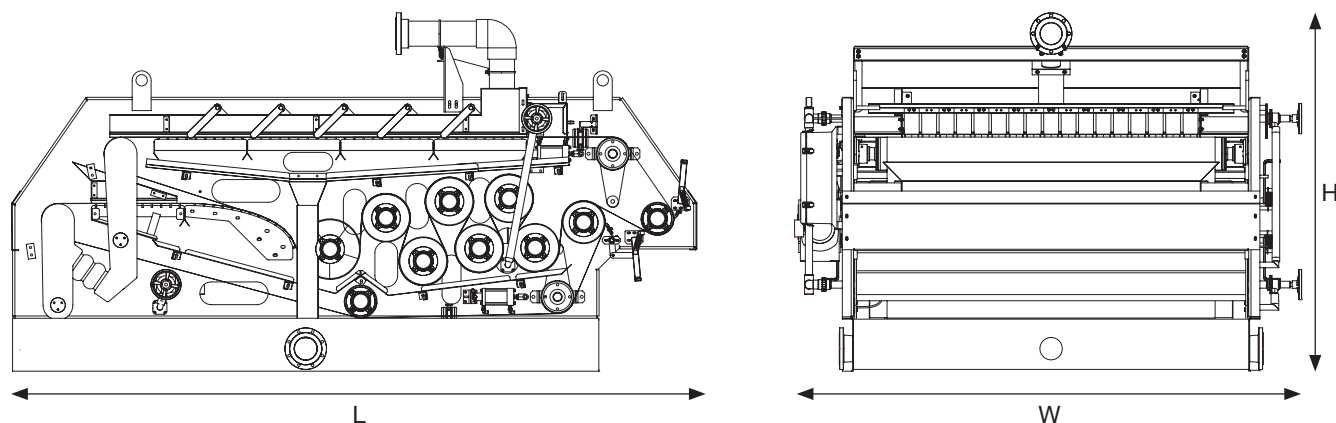
- Better process performance
- No additional flocculator tank and mixer required
- Full-Pressure Dewatering Zone – pressure is gently increased as the sludge passes through 8 pressure rollers

#### Roller design

The strength of the rollers is optimized through the use of specialized forged-end construction. The drive roller is coated with Buna N and the pressure rollers are epoxy coated for corrosion resistance.

#### Chicanes

Chicanes in polyethylene material ensure long-life operation. They are easy to operate and maintain, and an entire row of chicanes lift simultaneously for easy cleaning.



#### Dimensions

| Model          | Length |          | Width |          | Height |          |
|----------------|--------|----------|-------|----------|--------|----------|
|                | (mm)   | (inches) | (mm)  | (inches) | (mm)   | (inches) |
| Belt Press 100 | 4,588  | 180      | 2,400 | 94       | 2,404  | 95       |
| Belt Press 150 | 4,588  | 180      | 2,900 | 114      | 2,404  | 95       |
| Belt Press 200 | 4,588  | 180      | 3,400 | 134      | 2,404  | 95       |

#### How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at [www.alfalaval.com](http://www.alfalaval.com)