Pumps

**Progressive cavity pump**
- Designed for pumping honey. In single or multi-stage with 6, 12 and 24 bar pressure ratings.
- Excellent suction characteristic and smooth pumping action, makes it ideal for pumping honey at pressure, through filters and heat exchangers.
- Available with VSD electrics, pressure switch and level sensor switch option.
- Auger pre-feeding screw for pumping honey/wax slurry.

**Rotary lobe pump**
- Ideal for pumping viscous honey, gently and reliably.
- All product contact parts are 316L stainless steel.

**Air operated diaphragm pump**
- Self priming and with very good suction capabilities.

**Shear/mixing pump**
- For blending additives with honey.
- Suitable for breaking up crystals making a smooth and homogeneous product.

**Flexible impeller pump**
- For transferring honey in extraction and processing plants.
- Mobile or on static base.
- Available in 1 1/2", 2" and 3" sizes depending on application.
- Economic single phase variable speed electrics.
### Pumps

**Centrifugal cleaning pump**
- Efficient design offering high flow rates necessary for good cleaning.
- Mobile options with on/off or variable speed electrics.

**Drum pump**
- Food grade air operated piston pump. Suitable for pumping honey out of the top of drums.

### Filters

**Right angle filters**
- Coarse pre-filter available with a variety of perforated plate and wedge wire and ss mesh inserts.
- Stainless steel filter elements easily removable for inspection and cleaning.

**Self-cleaning rotary filter**
- For filtering prior to drumming off in extraction plants.
- Suitable as a primary filter for removal of foreign matter in honey processing/packing lines.
- Available in various sizes and with a range of micron-rated screens, depending on honey temperature and amount of foreign matter/wax to be removed.
- Automatic purge valve system allows uninterrupted filtering.

**Top entry bag filter**
- For fine filtering and removal of impurities during honey processing.
- Nylon bag (available in range of apertures – 1,000 down to 50 micron), fit inside robust stainless steel baskets.
- Able to safely cope with system pressure of up to 6 bar.
- Pressure gauge and valving options available.
Heat exchangers

**Multi-tube heat exchangers**
- Ideal for heating of honey/wax slurry prior to wax separator.
- Available in a range of models, sized with the correct quantity, length and diameter of inner tubes, to best suit honey heating or cooling applications.

**Scraped surface heat exchanger (SSHE)**
- Ideal for heating and cooling honey, in particular rapidly cooling of viscous honey prior to crystallisation.
- Internal rotating blades continually scrape the surface of the heat exchanger barrel providing efficient heat transfer.

**Plate heat exchangers**
- Designed to efficiently heat and cool honey during the thermalising process.
- Can be configured to recover heat energy by regeneration (i.e. preheat incoming cold honey using outgoing hot honey).

**Thermalising and filtering skid**
- Complete skid mounted honey processing plant for thermalising (pasteurising) and filtering honey prior to creaming and packing.
- Incorporating pumps, plate heat exchangers (regeneration, heating, cooling) and filters (pre and final filters).
- Hot and cold water system options.

**Vacuum evaporation**
- Plant for the removal of moisture from honey using a low temperature evaporative process.
Automatic honey loosener

- Refined European designed honey loosener, will loosen 4–5 frames per minute with precision and minimal damage to the comb.
- Improved features include scraping plates for the removal of remaining honey and wax off the needles.
- Various levels of automation available.

Wax press

- Cappings are pressed by the variable pitch screw feeder. Recovering honey without excessive pressure.

Valves, fittings & gauges

- Complete range of butterfly, ball valves and fittings with RJT or tri-clamp connections.

Drum and IBC cleaning

Water-driven high-pressure cleaning head

- For efficiently and thoroughly cleaning drums and IBC’s of residual honey.
- Quality European manufactured machine operates using a standard high pressure water blaster.

Rotating spray heads

- Operates from a centrifugal cleaning pump with optimum pressure around 3–5 bar, offering a thorough clean. Various sizes available.

HD Process NZ Ltd, specialists in sanitary process equipment, was created in 1997 and is a solely-owned New Zealand family business. We pride ourselves on supplying quality sanitary stainless steel process equipment to meet all food industry needs. We work with integrity and commitment to assist our client business partners to solve their food processing requirements.

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