



BAR SCREENS

Arlat manufactures both FC screens, which are chain and sprocket driven and RP screens, which are driven by a rack and pinion arrangement.

Bar screens are front cleaned, front return, self-cleaning mechanical screens for the separation and removal of solid wastes from municipal and industrial flow systems, including storm water/CSO installations. Bar screens are normally constructed of stainless steel, but other material types are available. There are no rotating drive parts that come into contact with the liquid.

Screen slot spacing's widths ranging from 3/8" to 2".

The bar screen works by utilizing a carriage mounted rake to remove material that has been trapped in the submerged bar rack. The collected screenings are discharged through a rear chute above the operating floor.

Stainless steel covers are available to maintain a safe working environment as well as controlling odor within the head works.



**RP RACK AND PINION
MECHANICAL BAR SCREEN**

FC FRONT CLEANED MECHANICAL BAR SCREEN



P.O. Box 249 – 35 Elm Street, Walkerton, Ontario N0G2V0
Tel 519-881-0262 800-485-7101 Fax 519-881-3573
E-mail: info@arlat.com Web: www.arlat.com

Quote Information Sheet – Bar Screen

Project: _____

Contact: _____

Company: _____

Address: _____

Phone: _____

E-mail: _____

Fax: _____

Number of Channels: _____

Channel Width: _____

Channel Depth: _____

Peak Flow Rate: _____

Max Water Depth: _____

Screen Type (FC/RP): _____

Bar Screen Height: _____

Slot Spacing: _____

Material (304SS, 316SS, Other): _____

Discharge Height: _____

Available Head Room: _____

Available Voltage: _____

Motor Type: _____

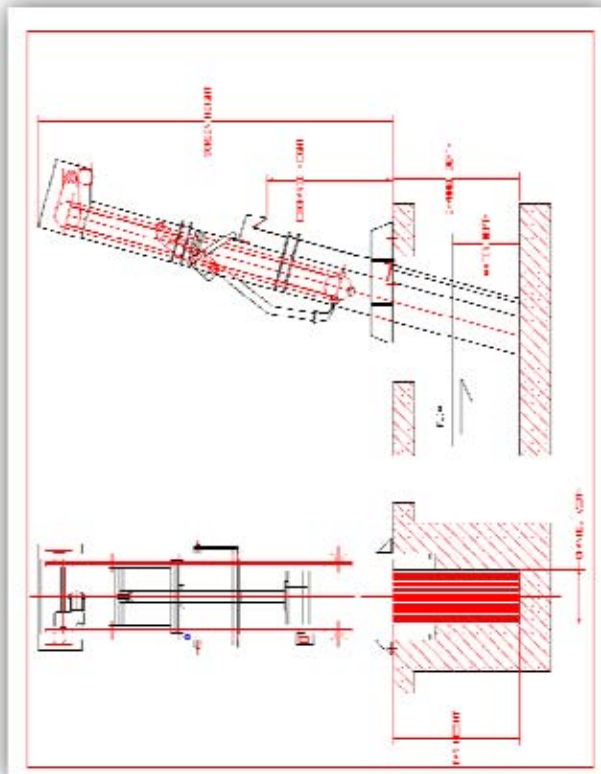
Controls required: _____

Control type (Nema): _____

Covers required: _____

Heaters required: _____

Further Details / Special Conditions / Dimensional Restrictions: _____





FILTER SCREEN

Arlat's fine filter screen consists of a continuous belt of individual teeth, made from a reinforced nylon, supported by stainless steel shafts and rollers. The continuous belt removes debris trapped by the filter section of screen to be dealt with up and away from the pressure of the flow in the channel. This is far superior to other devices that operate down in the channel flow.

The screen is available in 5/8", 1/4", 1/8" and 1/16" slot openings. Most municipal projects utilize the 1/4" slot spacing.

Screenings are effectively ejected from the belt by the self-cleaning action of the teeth.

Arlat offers an optional spray wash or unloading brush to enhance the cleaning of the belt and ensure maximum efficiency.

Although the majority of the screen components are stainless steel, UHMW is widely used to significantly reduce wear, noise and replacement costs compared to competitive machines.

In comparison to conventional screens the TS is very compact and requires little headroom. It is well suited for both narrow channels, down to 12" in width, and wide channels, up to 9'.

The combination of the Arlat TS filter screen with the Arlat SDP compactor / washer provides an unbeatable head works package installation.





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Quote Information Sheet – Filter Screen

Project: _____

Contact: _____

Company: _____

Address: _____

Phone: _____

E-mail: _____

Fax: _____

Number of Channels: _____

Channel Width: _____

Channel Depth: _____

Peak Flow Rate: _____

Max Water Depth: _____

Slot Spacing: _____

Material (304SS, 316SS, Other): _____

Discharge Height: _____

Available Head Room: _____

Available Voltage: _____

Motor Type: _____

Controls required: _____

Control type (Nema): _____

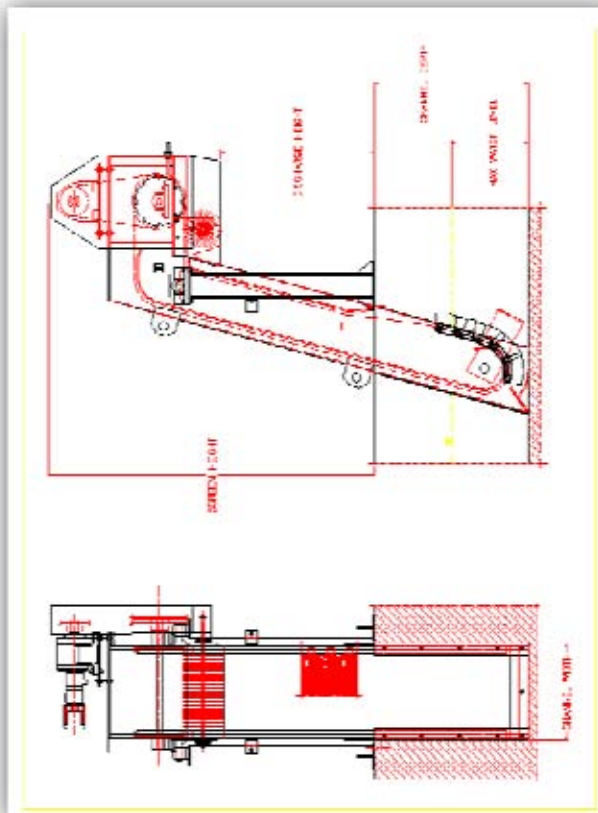
Covers required: _____

Heaters required: _____

Brush required: _____

Spray wash required: _____

Further Details / Special Conditions / Dimensional Restrictions: _____





SDP - SPIRAL DEWATERING PRESS



Arlat's SDP spiral dewatering press uses a shaftless spiral to maximize capacity while reducing clogging to enable continuous, trouble free dewatering of screenings. The press is effective in significantly reducing the volume of screenings and head works odour in both municipal treatment plants and industrial applications.



The standard press is supplied with a direct coupled, constant speed gearmotor and a local electrical control panel. The press can be arranged to accommodate feed from a number of sources, conveying material to the discharge area and then compacting prior to dropping the dewatered screenings into a transport container. Portable units are available for plant retrofits and integration into new and/or existing conveying systems and control networks. For ease of transport and better containment, the press can be fitted with a discharge bagger.

Arlat's shaftless spiral dewatering press is unique, effectively compacting and drying screenings without the use of doors, springs, fingers or any other device requiring adjustment or maintenance. For installations where screens capture significant amounts of biological material, i.e. gravity feed mains to the head works, washers can be added to break this material down and return it to the channel for treatment. Both batch and inline washing systems are available to suit the plants operating profile.





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Quote Information Sheet – Dewatering Press

Project: _____

Contact: _____

Company: _____

Address: _____

Phone: _____

E-mail: _____

Fax: _____

Volume of Material: _____

Density of Material: _____

Overall Length: _____

Incline Angle: _____

Discharge Height: _____

Inlet Chute Height: _____

Inlet Chute Width: _____

Number of Chutes: _____

Center to Center: _____

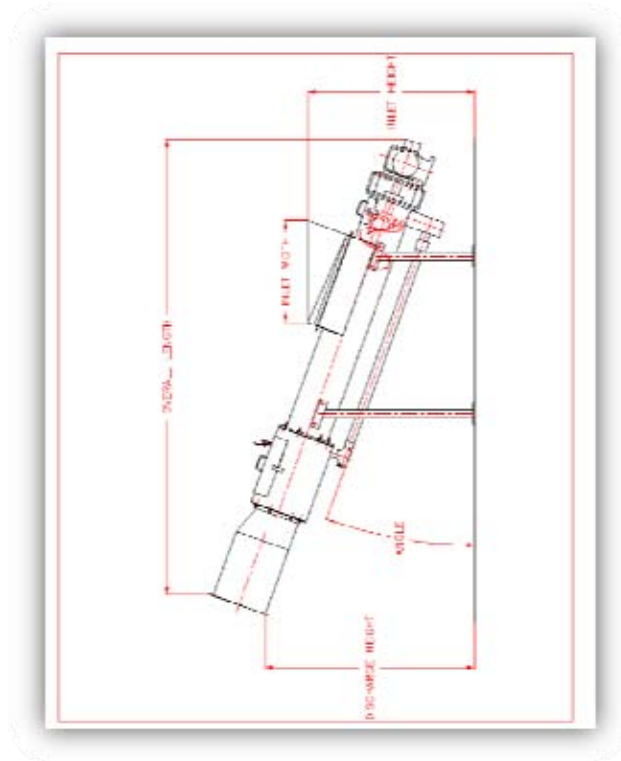
Construction Material: _____

Available Voltage: _____

Motor Type: _____

Controls required: _____

Control type (Nema): _____



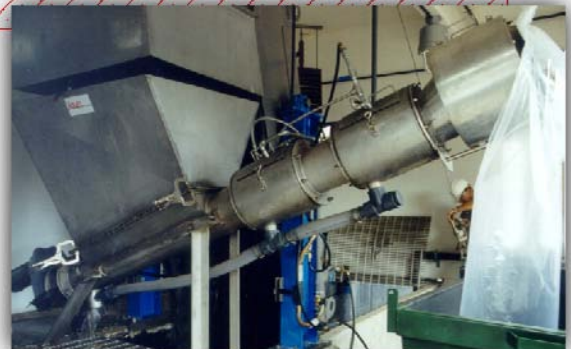
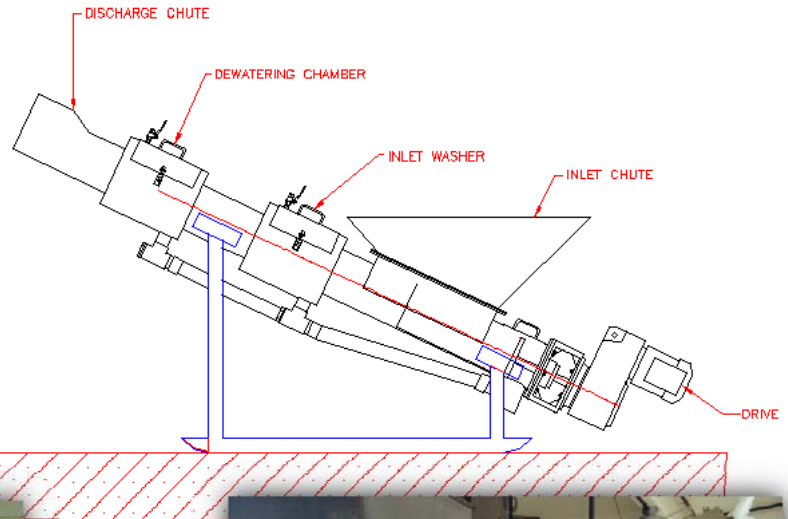
Further Details / Special Conditions / Dimensional Restrictions: _____



INLINE WASHER

The inline washer allows the washer/compactor and the screen to operate in the continuous mode during storm flows. The inline washer is located prior to the press section and is fed by the plant effluent water, which is usually readily available.

The washer relies on the use of high pressure water sprays to break down the organics as they travel up the shaftless screw, and flush the soluble organics through the drain and into the channel. The water pressure can be boosted by an optional integral regenerative turbine pump.





BATCH WASHER

The Batch washer collects the screenings and deals with them in much the same way as a domestic washing machine.

Since the machine has no agitator vanes in the chute, clogging and entangling of the screenings are eliminated.

A pneumatic slide gate holds the screenings in the chute. Periodically the chute is filled with water and the wash cycle begins. The contents of the batch washer are agitated using a recessed impeller, driven by a maximum 2HP motor. Compressed air nozzles located at the bottom of the washer lift the accumulated solids to the centre of the machine. Once the washer has completed its cycle, the knife gate opens and releases the washed screenings into the press.





GRIT CLASSIFIER



Arlat's grit classifiers scrub the biological coating; which is found on grit, removed from the waste stream, in plant head works. This substantially reduces odour in the grit storage area.

Grit can be removed from wastewater streams by using a centrifugal force in a vortex tank separator or by using a mixture of gravity and air pressure in the aerated grit tanks. Quite often this grit has been in the sewer system for some a long period of time. It may have been driven into the plant under increased flows experienced in rainstorm conditions but because of its prolonged exposure to sewage it can be coated in a substantial amount of biological matter. In order to remove this matter so that it can be treated in the plant, the grit is scrubbed in a grit classifier, thus removing the associated odour.

The dimensions of the classifier are varied to suit the customer's flows from the grit tanks. If the grit is pumped from the tanks, the units can be significantly more compact if a cyclone separator is added ahead of the classifier.

Use of an Arlat GC grit classifier will assure you of many years of uninterrupted service. The use of stainless steel trough and reservoir, together with the non-clogging features of the shaftless screw and the elimination of any submerged bearings, will give our machine life unmatched by other equipment available in the market place. In addition, the trough is protected by an UHMW-PE, easily replaceable, wear liner.





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Quote Information Sheet – Grit Classifier

Project: _____

Contact: _____

Company: _____

Address: _____

Phone: _____

E-mail: _____

Fax: _____

Peak Flow Rate: _____

Overall Length: _____

Classifier Width: _____

Discharge Height: _____

Max Head Room: _____

Type of Feed: _____

Cyclone required: _____

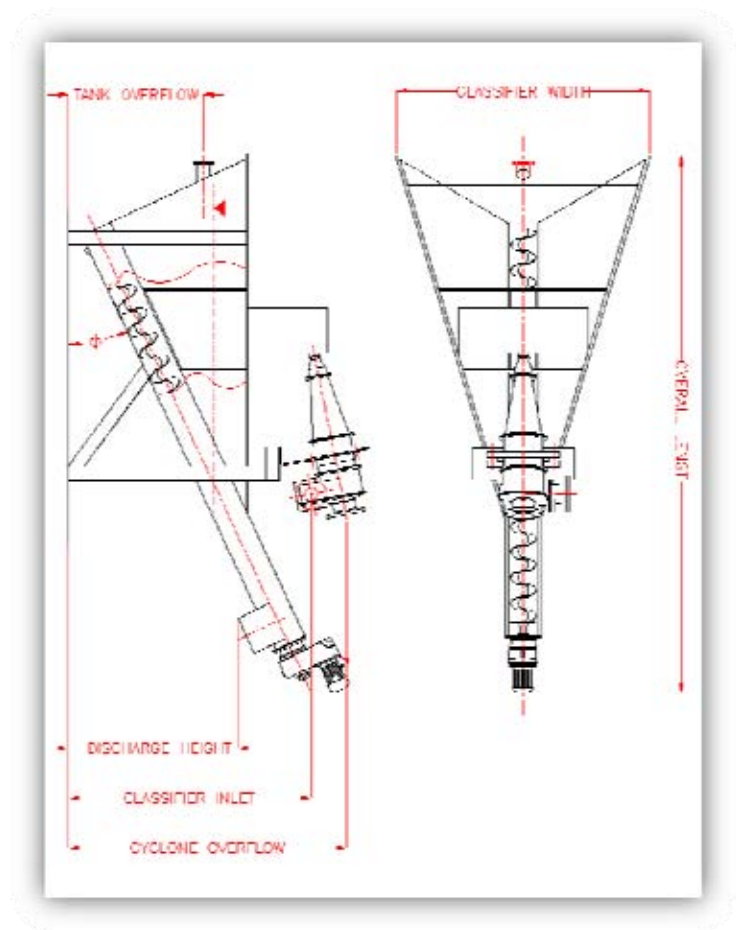
Construction Material: _____

Available Voltage: _____

Motor Type: _____

Controls required: _____

Control type (Nema): _____



Further Details / Special Conditions / Dimensional Restrictions: _____



SHAFTLESS SCREW CONVEYOR



Arlat's shaftless screw conveyors are of rugged design with a shaftless spiral housed in a stainless steel enclosed U-trough. Elimination of the shaft results in higher performance and lower maintenance because it eliminates clogging, wrapping and bridging. There are no end or hanger bearings common with shafted conveyors. These conveyors are used in both municipal and industrial applications.

Design is customized to meet project specifications. Spiral screw diameters, pitch, thickness, length and inclination are determined by type and quantity of material being conveyed. Screw rotational speed is determined by the application capacity and loading requirements.

We control wear on the screw and trough with use of replaceable hardened steel wear bars or UHMW-PE trough liners, this in turn minimizes maintenance costs.





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Quote Information Sheet – Screw Conveyor

Project: _____

Contact: _____

Company: _____

Address: _____

Phone: _____

E-mail: _____

Fax: _____

Volume of Material: _____

Density of Material: _____

Overall Length: _____

Incline Angle: _____

Discharge Height: _____

Inlet Chute Height: _____

Inlet Chute Width: _____

Number of Chutes: _____

Center to Center: _____

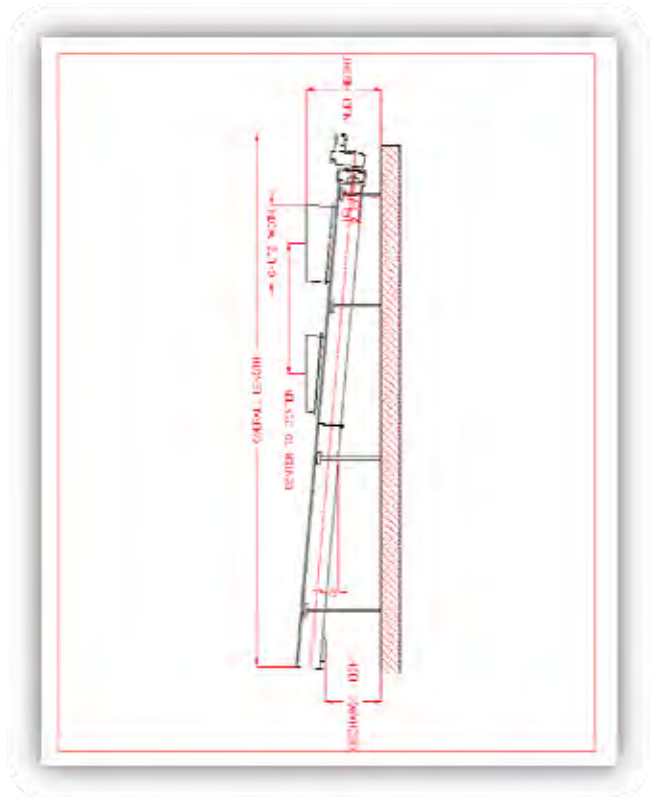
Construction Material: _____

Available Voltage: _____

Motor Type: _____

Controls required: _____

Control type (Nema): _____



Further Details / Special Conditions / Dimensional Restrictions: _____



CHAIN AND FLIGHT SCUM COLLECTOR



Arlat's chain and flight scum collector equipment is mounted in the rectangular tanks into which aerated municipal water is fed. The action of the flights is to scrape the sludge, which settles to the bottom, to one end where it is collected and transferred to the digesters. The returning flights travel along the surface of the tank skimming all the scum, which floats, into Arlat's scum trough or some other removal device.

The Arlat design utilizes non-metallic chain and sprockets to reduce weight and cost while providing a reliable installation. Flights are fibreglass and are connected to the chain with stainless steel brackets, a feature unique to Arlat.



The system drive shaft is the full width of the tank and runs in self cleaning, self lubricating babbitt bearings. It is driven by non-metallic chain with stainless steel pins. The system is powered by a helical gear motor with aluminum guard and protected by a shear pin coupling with a stainless steel hub and UHMW-PE rim.

Materials of construction have been carefully chosen to reduce weight while optimizing strength as well as for ease of maintenance and long life.





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Quote Information Sheet – Chain & Flight

Project: _____

Contact: _____

Company: _____

Address: _____

Phone: _____

E-mail: _____

Fax: _____

Number of Channels: _____

Channel Width: _____

Channel Depth: _____

Channel Length: _____

Peak Flow Rate: _____

Average Flow Rate: _____

Available Voltage: _____

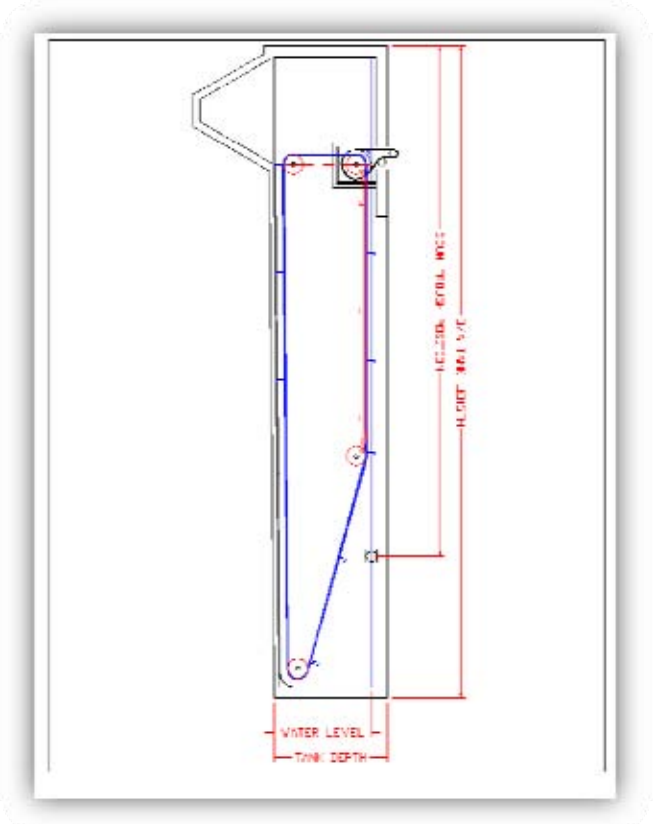
Motor Type: _____

Controls required: _____

Control type (Nema): _____

Heaters required: _____

Further Details / Special Conditions /
 Dimensional Restrictions: _____





SCUM TROUGHS & SKIMMERS

Clarifiers with Chain & Flight sludge collectors utilize the return travel of the flights to skim all the scum, floating on the surface, to one end of the tank.

Here the scum is removed and sent to the digesters by a Chain & Flight skimmer mounted crossways in the tank. Or, more commonly, by a simple scum trough

The scum trough is manufactured from heavy wall Aluminum or Stainless Steel pipe and supported by Arlat's patented bearing housing arrangement. The bearing housings have four rollers which support the trough on each side. The rollers are protected by two rubber scraper seals.

The trough is positioned so that the weir edge is slightly above the water surface. When the trough is tilted the accumulated scum is flushed into the trough and out through a spool piece in the wall.

