

MODEL 10SX T/S SPECIFICATION

1.0 General Specifications

There will be furnished one (1) only Grind Hog[™] Model 10SX T/S Comminutor as manufactured by G.E.T. Industries, Inc. Rotation shall be in a clockwise direction.

1.1 Design Criteria

The comminutor shall be designed to handle the flows indicated below, within the head loss noted.

- a) hydraulic capacity 1.2 MGD (4500m³/day)
- b) satisfactory operation shall occur under conditions of zero flow
- c) head loss at peak flow shall not exceed 10 inches (254 mm)
- d) design shall be such that the flow enters the size reduction and screening device horizontally and exits vertically downward to facilitate the flushing of solids

1.2 Cover Plate

Shall be:

- a) of heavy-duty construction and of high quality cast iron
- b) fitted with 4 position lock down arrangement, and 2 alignment holes for repositioning following service
- c) located on, and positioned by wall mounted supports allowing for ease of removal for inspection and maintenance.

1.3 Rotating Drum Screen

a) heavy-duty Cast Ductile Iron ASTM 536, grade 60-45-18

1.4 Cutting Elements

- a) replaceable shear bars constructed of high-quality A2 tool-steel shall be attached to the rotating drum. Each shear bar shall be machined from solid bar stock, surface ground to establish exact tolerances
- the stationary cutting bar, shall be of high-quality 01 tool steel hardened to a minimum of 56
 Rockwell C, and shall be reversible, allowing for four (4) sets of cutting edges prior to sharpening or
 replacement
- c) all submerged fasteners shall be of stainless steel

1.5 Motor

Submersible, Explosion-proof 1 Hp. (.746 kw), 1750 RPM _____ volt, 3 phase, 60 HZ, rated for continuous-in-air or submerged in sewage service. Power control cable of 25 ft (7.6 m) included. Class 1, Group C and D, Division 1 Hazardous locations. The motor shall feature:

- Frame rugged cast iron ASTM type A-48, class 30
- Hardware 316 stainless steel

G.E.T. INDUSTRIES INC.

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SPECIFICATION cont'd...



- Stator Insulation specially treated class "F" and "H" non-hydroscopic insulation with multiple dips and brakes. Phase insulation included for inverter duty
- Rotor die cast aluminum, dynamically balanced. Exceeds NEMA limits per MGI 12.06
- Shaft high strength 416 stainless steel
- Bearings specially adapted for vertical assembly. Both upper and lower bearings are pre-packed and sealed for life with special high temperature grease
- Cable Entry System epoxy sealed butt spliced connect for non-wicking cable entry design
- Moisture System two wire /two probe monitoring system constantly monitors oil chamber and stator housing for moisture
- Seals tandem (dual) shaft steal system working independent of each other. Designed to withstand 100 PSI at all seal locations

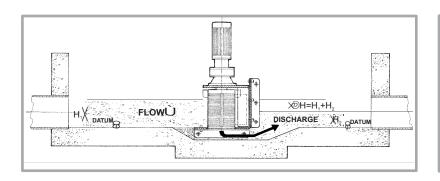
1.6 Drive Arrangement

- a) the motor shall be close-coupled to a speed reducer drive, a heavy duty planetary gear of the totally enclosed non-vented type suitable for total submergence during emergencies
- b) double seals on the output shaft shall ensure flood-proof operation through a reduction ratio of 35:1
- c) the cycloidal reducer shall be capable of withstanding shock loads to 500% of its mechanical rating of 4.27 Hp. and be warranted for two (2) years
- d) the drive shall have a minimum full load efficiency of 90% and be pre-lubricated with grease, requiring routine maintenance every 500 to 1,000 hours

1.7 "Toilet Seat" Channel Mounting System

Shall consist of a box-style structure dimensioned to suit the existing channel, supported by the channel walls; fabrication shall be 304 stainless steel.

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GENERAL DATA

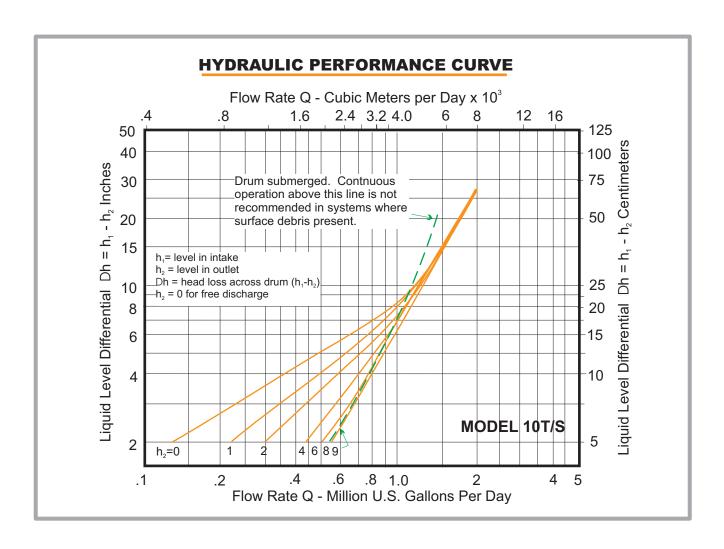
 Capacity
 0-1.2 MGD (US)
 0-4500 m³/day

 Drum Diam.
 9.4 in
 23.9 cm

 Inlet Area
 97 in²
 625.8 cm²

 Outlet Area
 45 in²
 290.3 cm²

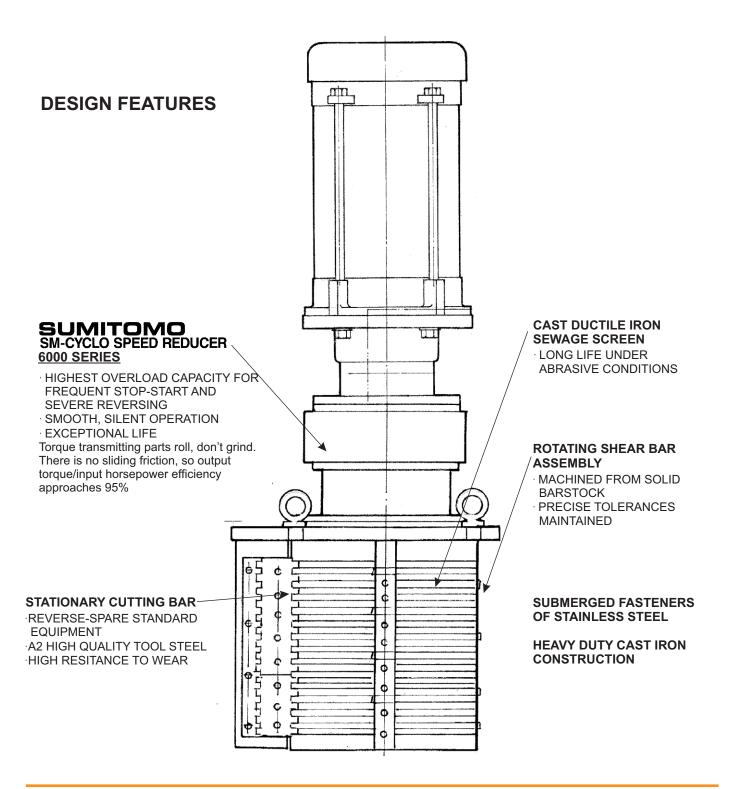
 Slot Width
 0.470 in
 12 mm



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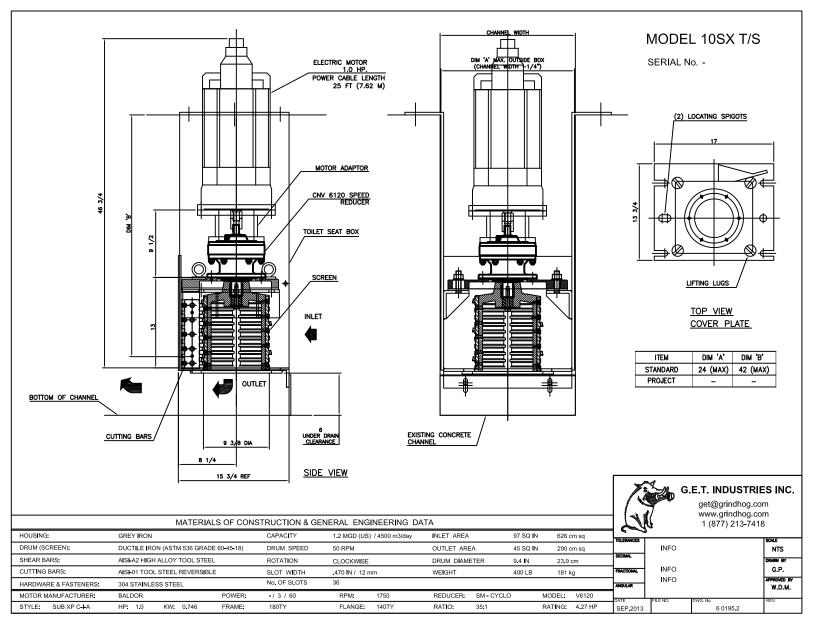
IN-CHANNEL MODEL 10SX T/S cont'd...



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MECHANICAL DETAIL





HORIZONTAL FLOW RETROFIT ALTERNATIVE

"TOILET SEAT BOX STYLE" DROP IN REPLACEMENT

PROJECT:

ANTICIPATED PEAK FLOW: _____

EXISTING CHANNEL:

Width (w): _____ Depth (d): _____

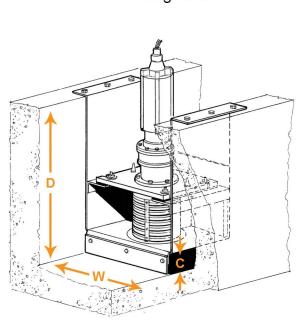
Underdrain Clearance (c): _____

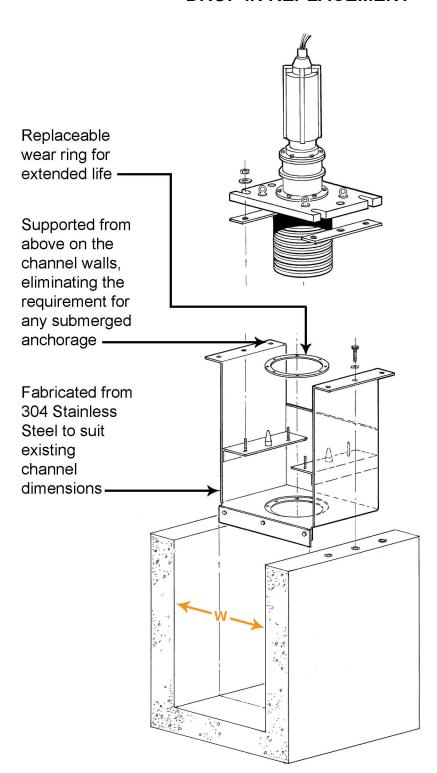
MOTOR REQUIREMENTS:

Power: ____ / ___ / _____ / _____

- REPLACING -

Barminutor Infilco Degremont
Clow Aer-O-Flo Muffin Monster
Franklin Miller-Diminutor Worthington
.....Among others





HORIZONTAL FLOW

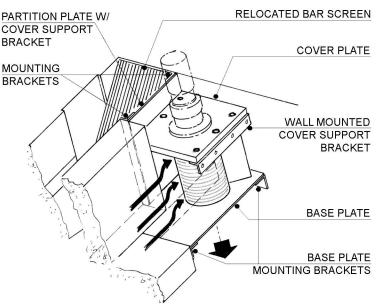
Customized to suit each application

Grind Hog

ORIGINAL CHANNEL

REMOVE 24" SECTION OF DIVIDING WALL REMOVE 18" X 24" SLAB RELOCATE BAR SCREEN

PROPOSED CHANGES





Original Worthington 15-5



Custom Fabricated Basin



16 ASX T/S



Custom Fabricated Basin & 16ASX T/S Ready for Shipment