

MODEL 16A T/S SPECIFICATION

1.0 General Specifications

There will be furnished one (1) only Grind Hog[™] Model 16A 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 3.5 MGD (13,200m³/day)
- b) satisfactory operation shall occur under conditions of zero flow
- c) head loss at peak flow shall not exceed 20 inches (508 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
- b) 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

TEFC 1.5 Hp. Motor suited to outdoor weatherproof service (IP55) on _____ volt, ____ phase, ____ cycle service. Close-coupled

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

G.E.T. INDUSTRIES INC.

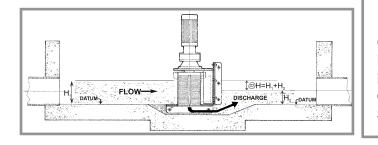


- c) the cycloidal reducer shall be capable of withstanding shock loads to 500% of its mechanical rating of 7.72 Hp. and be warranted for two (2) years
- d) the drive shall have a minimum full load efficiency of 90% and be pre-lubricated with grease, requiring routing maintenance every 500 to 1,000 hours

1.7 "Toilet Seat" Channel Mounting System

Shall consist of a box style structure fabricated of 304 Stainless Steel dimensioned to suit the existing channel and supported from above for ease of installation





GENERAL DATA

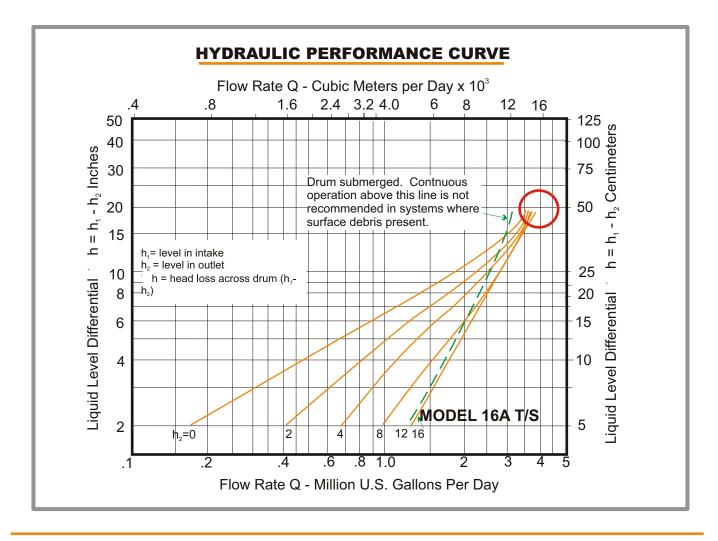
 Capacity
 0-3.5 MGD (US) 0-13200 m³/day

 Drum Diam. 14.5 in
 36.8 cm

 Inlet Area
 202 in²
 1303 cm²

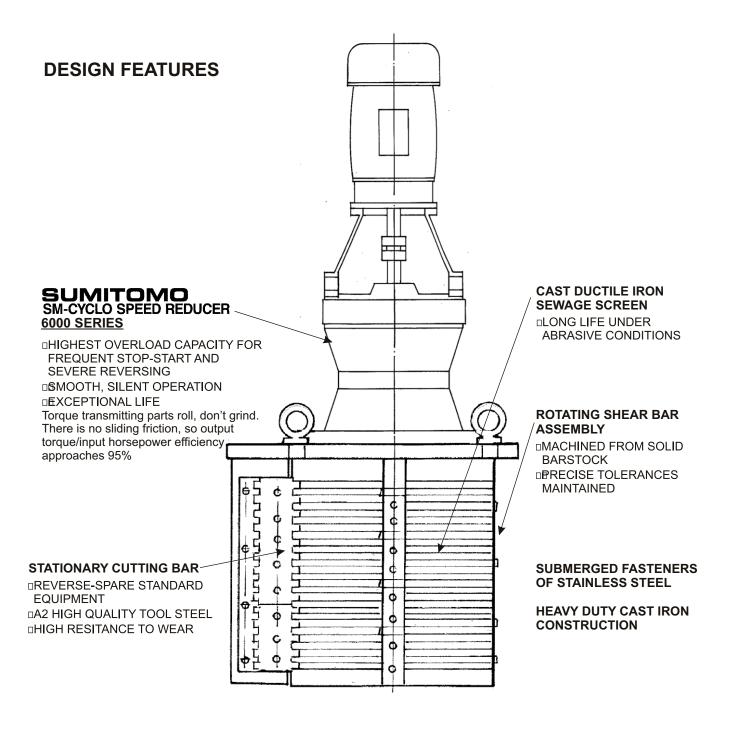
 Outlet Area
 121 in²
 780.6 cm²

 Slot Width
 0.470 in
 12 mm



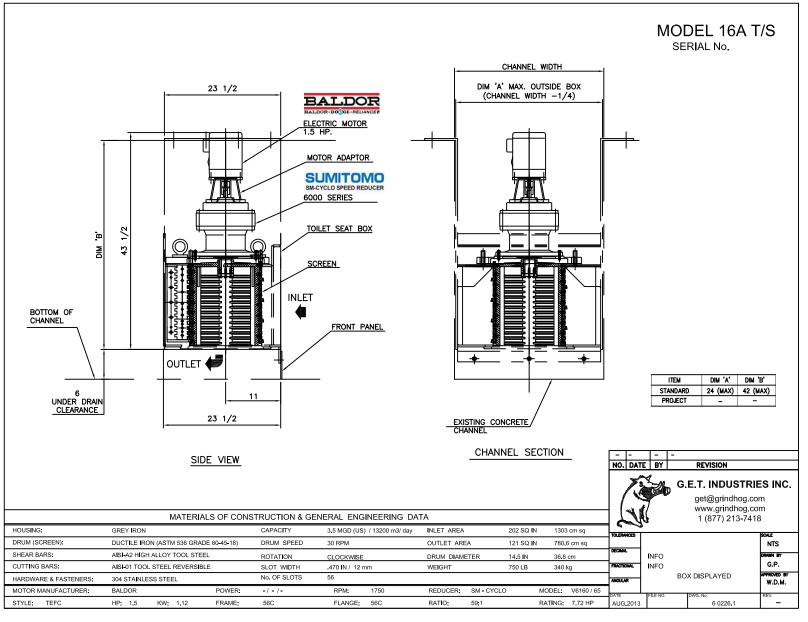


IN-CHANNEL MODEL 16A T/S cont'd...





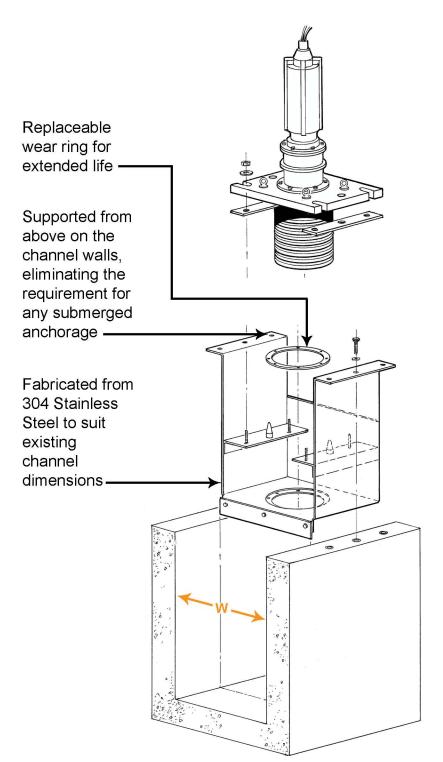
MECHANICAL DETAIL







"TOILET SEAT BOX STYLE" DROP IN REPLACEMENT



PROJECT:

ANTICIPATED PEAK FLOW: _____

EXISTING CHANNEL:

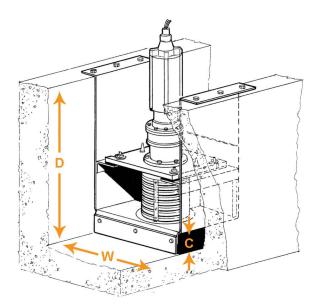
Width (w): _____ Depth (d): _____ Underdrain Clearance (c): _____

MOTOR REQUIREMENTS:

Power: ____ / ___ / ____ Enclosure: ____

- REPLACING -

Barminutor Infilco Degremont Clow Aer-O-Flo Muffin Monster Franklin Miller-Diminutor WorthingtonAmong others

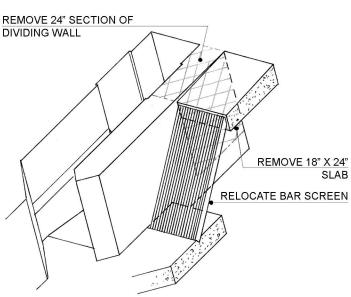


HORIZONTAL FLOW

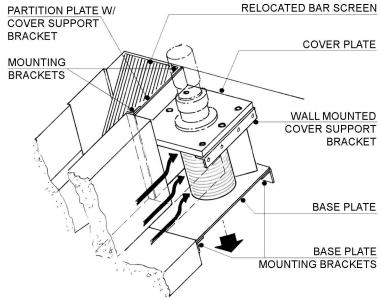
Grind Hog

Customized to suit each application

ORIGINAL CHANNEL



PROPOSED CHANGES





Original Worthington 15-5

Custom Fabricated Basin

16 ASX T/S

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