MODEL 10T/S
SPECIFICATION

1.0 General Specifications

There will be furnished one (1) only Grind Hog™ Model 10T/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 (4500m^3/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
(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 Hp. Motor suited to outdoor weatherproof service (IP55) on _____ volt, ____ phase, ____ cycle service. Close-coupled

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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

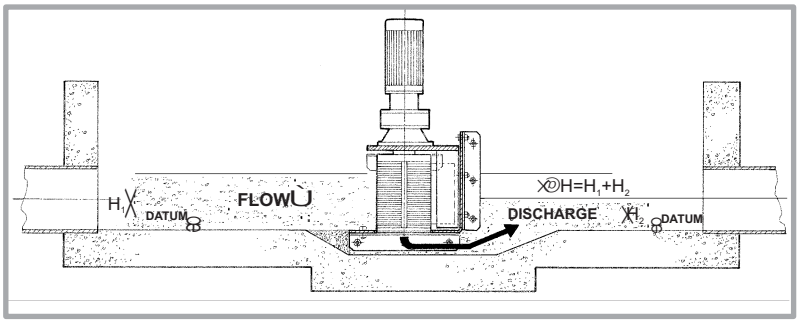
1.7 "Toilet Seat" Channel Mounting System

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

Grind Hog™

HYDRAULIC DATA SHEET

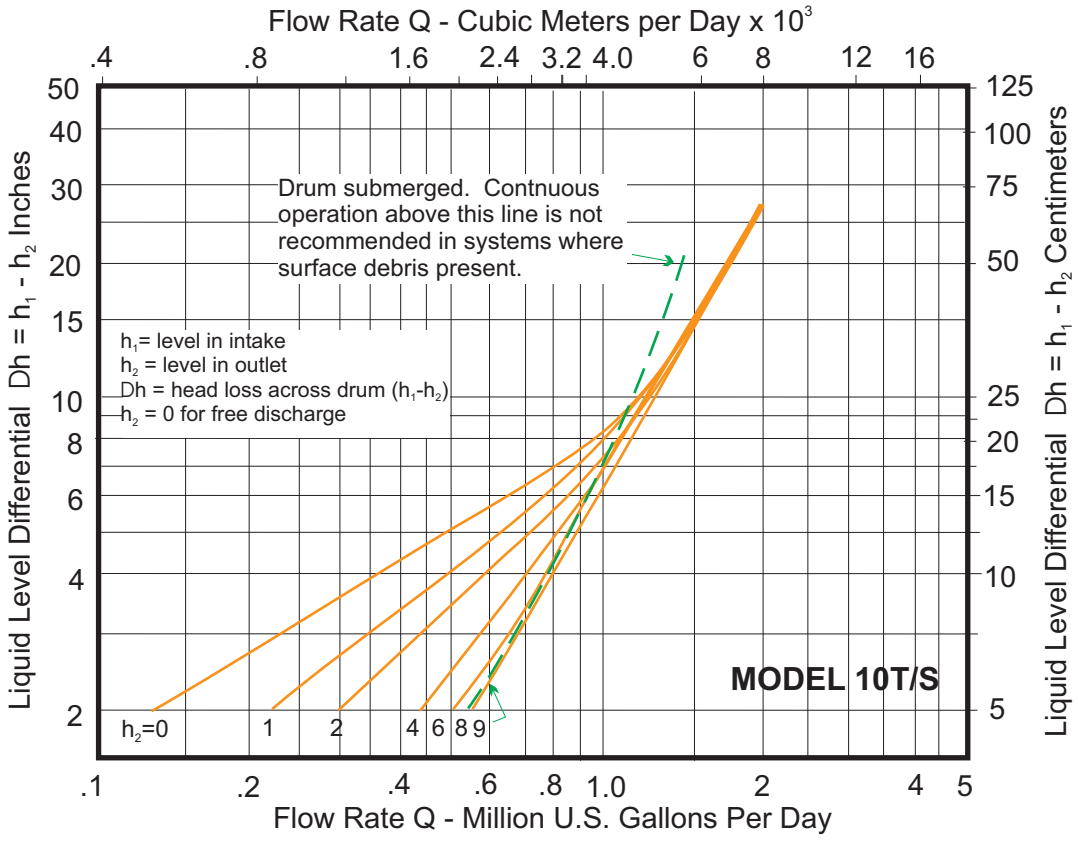
IN-CHANNEL MODEL 10 T/S



GENERAL DATA

Capacity	0-1.2 MGD (US)	0-4500 m^3/day
Drum Diam.	9.4 in	23.9 cm
Inlet Area	97 in^2	625.8 cm^2
Outlet Area	45 in^2	290.3 cm^2
Slot Width	0.470 in	12 mm

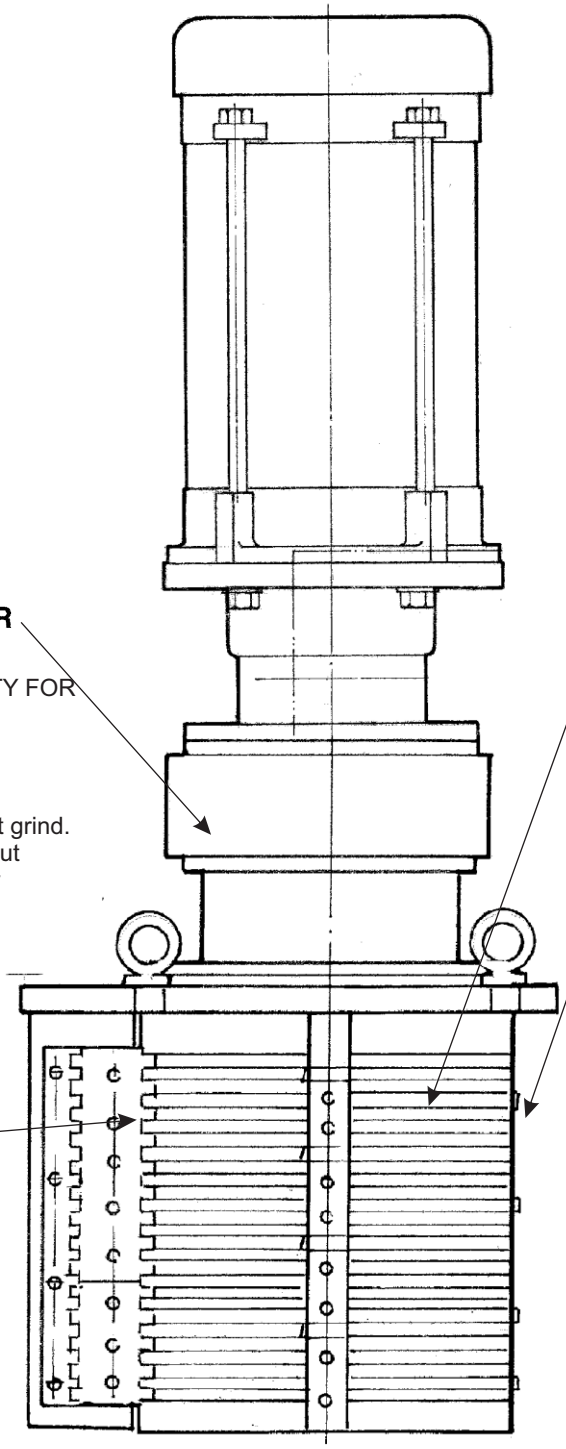
HYDRAULIC PERFORMANCE CURVE



G.E.T. Industries Inc.
Toll Free: (877) 213-7418
E-mail: get@grindhog.com ♦ Web: www.grindhog.com

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

DESIGN FEATURES



SUMITOMO
SM-CYCLO SPEED REDUCER
6000 SERIES

· HIGHEST OVERLOAD CAPACITY FOR FREQUENT STOP-START AND SEVERE REVERSING
· SMOOTH, SILENT OPERATION
· EXCEPTIONAL LIFE

Torque transmitting parts roll, don't grind. There is no sliding friction, so output torque/input horsepower efficiency approaches 95%

CAST DUCTILE IRON SEWAGE SCREEN

· LONG LIFE UNDER ABRASIVE CONDITIONS

ROTATING SHEAR BAR ASSEMBLY

· MACHINED FROM SOLID BARSTOCK
· PRECISE TOLERANCES MAINTAINED

STATIONARY CUTTING BAR

·REVERSE-SPARE STANDARD EQUIPMENT
·A2 HIGH QUALITY TOOL STEEL
·HIGH RESITANCE TO WEAR

SUBMERGED FASTENERS OF STAINLESS STEEL

HEAVY DUTY CAST IRON CONSTRUCTION

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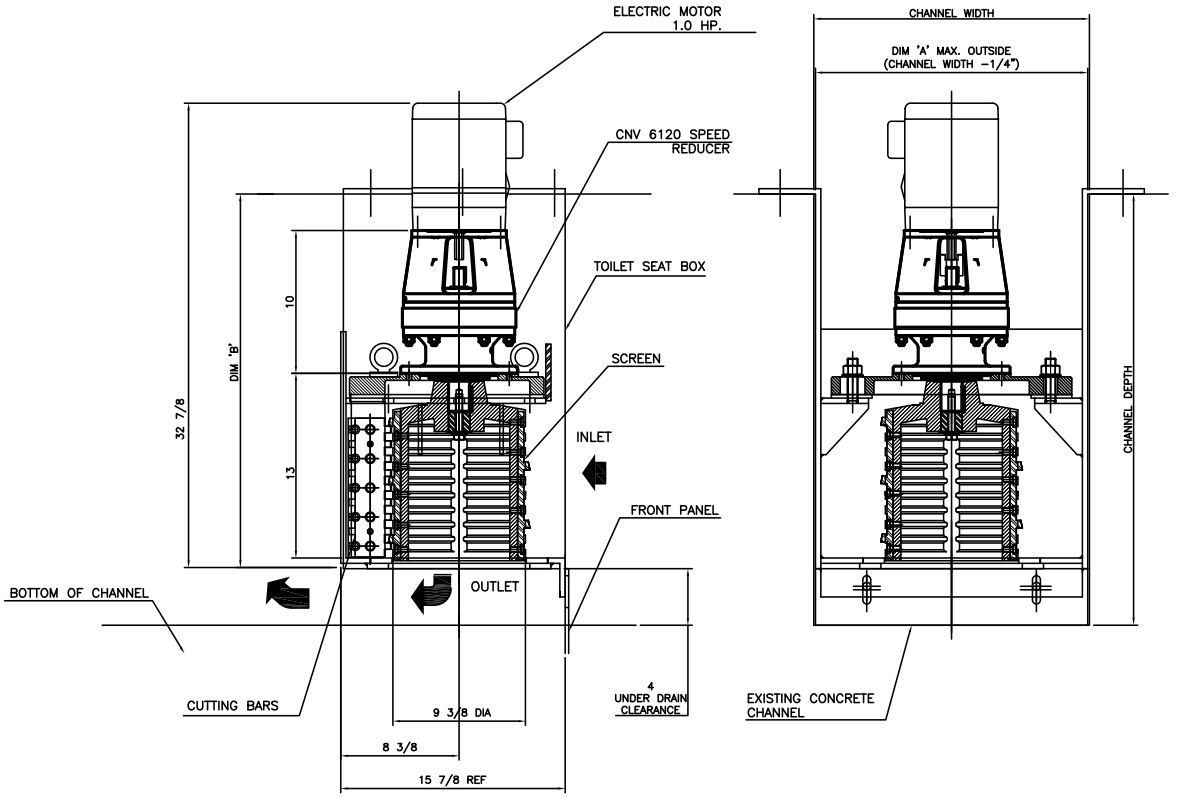
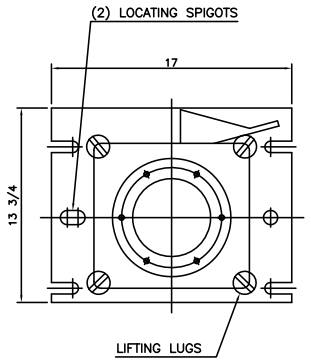
MECHANICAL DETAIL

MODEL 10 T/S

SERIAL No. -



SIDE VIEW



TOP VIEW
COVER PLATE

ITEM	DIM 'A'	DIM 'B'
STANDARD	24 (MAX)	42 (MAX)
PROJECT	–	–

MATERIALS OF CONSTRUCTION & GENERAL ENGINEERING DATA

HOUSING:	GREY IRON			CAPACITY	1.2 MGD (US) / 4500 m3/day	INLET AREA	97 SQ IN	626 cm sq
DRUM (SCREEN):	DUCTILE IRON (ASTM 536 GRADE 60-45-18)			DRUM SPEED	50 RPM	OUTLET AREA	45 SQ IN	290 cm sq
SHEAR BARS:	AISI-A2 HIGH ALLOY TOOL STEEL			ROTATION	CLOCKWISE	DRUM DIAMETER	9.4 IN	23.9 cm
CUTTING BARS:	AISI-01 TOOL STEEL REVERSIBLE			SLOT WIDTH	.470 IN / 12 mm	WEIGHT	400 LB	181 kg
HARDWARE & FASTENERS:	304 STAINLESS STEEL			No. OF SLOTS	36			
MOTOR MANUFACTURER:			POWER:	- / 3 / 60	RPM: 1750	REDUCER:	SM - CYCLO	MODEL: V6120
STYLE: TEFC	HP: 1.0	KW: 0.746	FRAME:	56C	FLANGE: 'C'	RATIO:	35:1	RATING: 4.27 HP

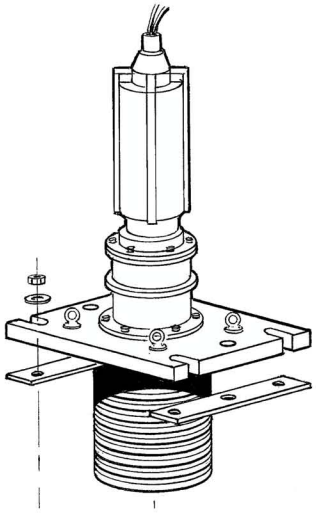
G.E.T. INDUSTRIES INC.
get@grindhog.com
www.grindhog.com
1 (877) 213-7418

TOLERANCES	INFO		SCALE: NTS
DECIMAL			DRAWN BY: G.P.
FRACTIONAL	INFO		APPROVED BY: W.D.M.
ANGULAR	INFO		
DATE: SEP. 2013	FILE NO.	DWG. No.: 6 0193.2	REV.

Grind Hog™

HORIZONTAL FLOW
RETROFIT ALTERNATIVE

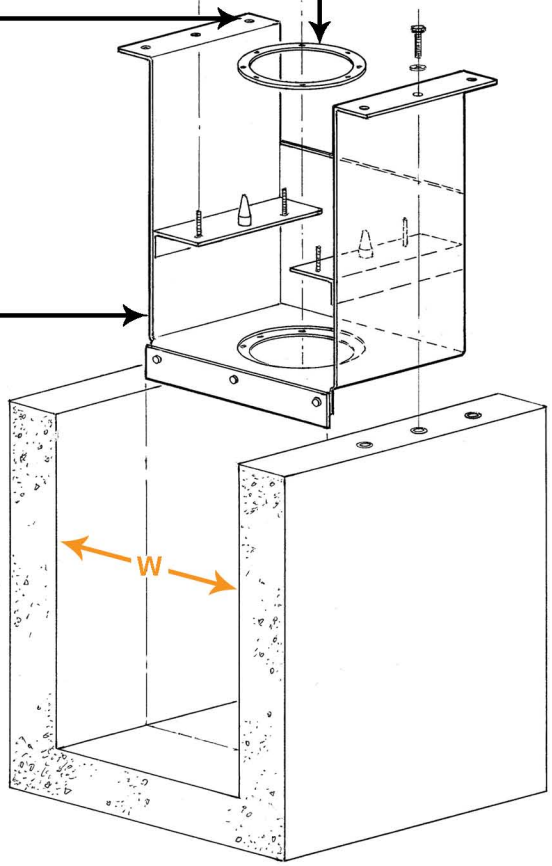
"TOILET SEAT BOX STYLE" DROP IN REPLACEMENT



Replaceable wear ring for extended life

Supported from above on the channel walls, eliminating the requirement for any submerged anchorage

Fabricated from 304 Stainless Steel to suit existing channel dimensions



PROJECT:

ANTICIPATED PEAK FLOW: _____

EXISTING CHANNEL:

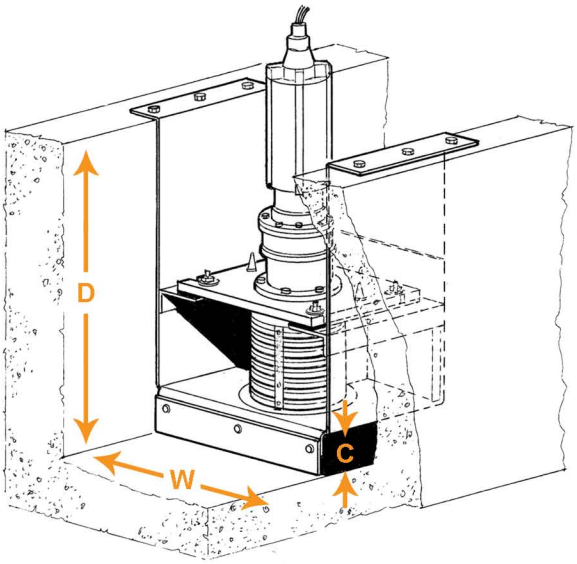
Width (w): _____
Depth (d): _____
Underdrain Clearance (c): _____

MOTOR REQUIREMENTS:

Power: _____ / _____ / _____
Enclosure: _____

REPLACING

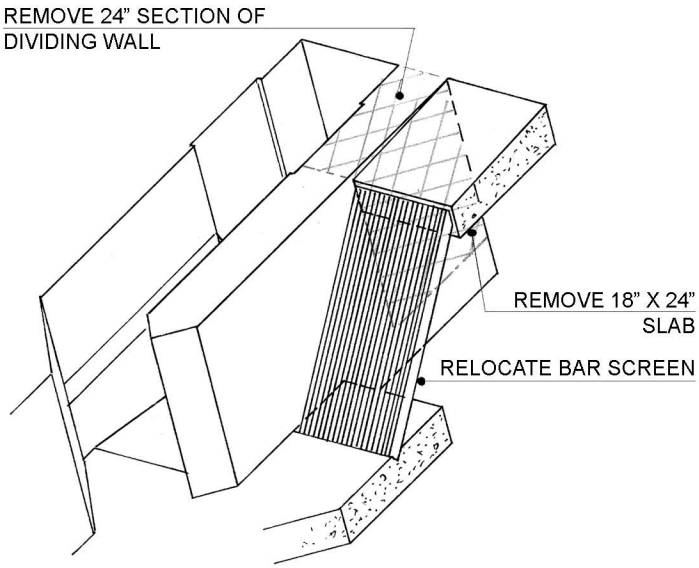
Barminutor — Infilco Degremont
Clow Aer-O-Flo — Muffin Monster
Franklin Miller-Diminutor — Worthington
.....Among others



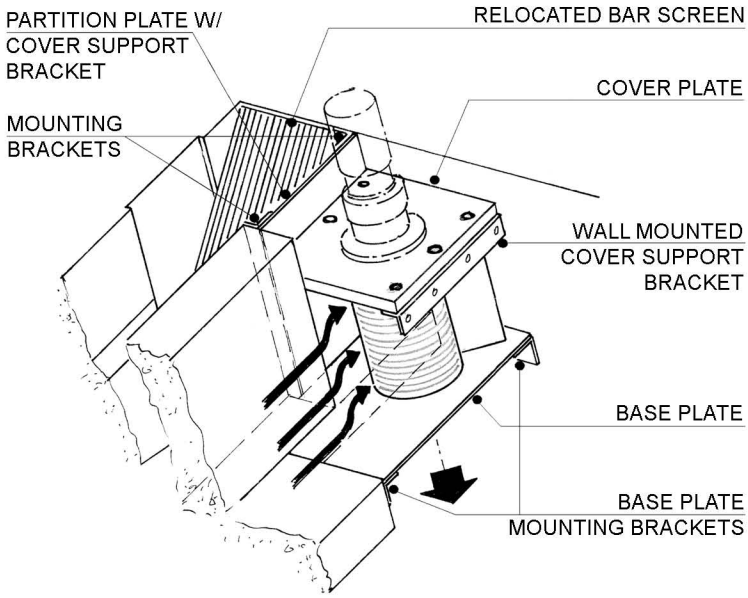
HORIZONTAL FLOW

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

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