

MODEL 10AS SPECIFICATION

1.0 General Specifications

There shall be furnished one (1) one only Grind HogTM Model 10AS Comminutor as manufactured by **G.E.T. Industries Inc.** with rotation in a counter-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 850 GPM (53.6 l/s)
- b) satisfactory operation shall occur under conditions of zero flow
- c) head loss at peak flow shall not exceed 8 inches (203 mm)
- d) design shall be such that the flow enters the size reduction and screening device horizontally and exists vertically downward to facilitate the flushing of solids

1.2 Rotating Drum Screen

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

1.3 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) 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

1.4 Flanged Body

- a) the body of the comminutor shall be of high quality cast iron and so designed to allow free unobstructed flow of influent through the unit. A Neoprene "O" Ring shall seal the chamber, allowing for operation under conditions of abnormally high head
- b) the inlet flange shall be 8" (203 mm)

1	.5	Μ	otor

Immersible 1 1/2 Hp. Motor, 1750 RPM,	volt,	_ phase,	cycle,	suited to	periodic
submergence. Power cable length 25 ft. (7.6 m	1).				

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

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SPECIFICATION cont'd...



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

OPTIONAL INSTALLATION ARRANGEMENTS

A) Auto-Coupling Slide Rail System - Wet Well

- a) each Grind Hog[™] shall be equipped with a Slide Rail System allowing for removal without entering the wet well
- b) a stationary PVC Overflow Coupling Box shall be flange mounted to the gravity sewer pipe as shown on the drawings. An open top will allow for overflow in the event of a disruption in service
- c) Wall Mounted Support Brackets shall be 304 stainless steel and shall be attached to the wet well wall
- d) Guide Rails shall be of 304 stainless steel pipe, 1.5" in diameter, and shall be of adequate length as shown on the drawings
- e) all anchorage hardware shall be of stainless steel, supplied by the contractor

B) Auto-Coupling Slide Rail System - Chamber

- a) each Grind Hog[™] shall be equipped with a Slide Rail System allowing for removal without entering the manhole
- b) a stationary PVC Overflow Coupling Box shall be flange mounted to the gravity sewer pipe as shown on the drawings. An open top will allow for overflow in the event of a disruption in service

.... alternatively....

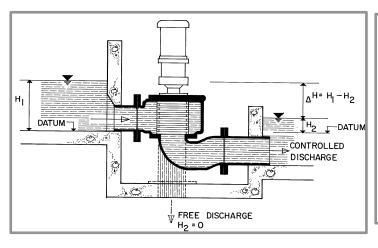
a stationary galvanized steel Overflow Bar Screen and influent trough shall be mounted under the gravity sewer pipe as shown on the drawing. Stainless steel support brackets and hardware shall be provided

- c) supports brackets shall be of stainless steel and shall be mounted to the:
 - * Manhole Wall PVC Overflow option
 - * Manhole Floor Overflow Bar Screen Option
- d) Guide Rail Supports shall be 304 stainless steel pipe. 1.5" diameter, and of adequate length as shown on the drawing
- e) all anchorage hardware shall be of stainless steel, supplied by the contractor

C) Trash Basket - Optional

- a) a Trash Basket compatible with the Slide Rail System shall be provided, allowing for continued screening during comminutor maintenance. Materials of construction are:
 - * 10 Gauge Aluminum
 - * 2" (51 mm) holes on 3" (76 mm) centers

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GENERAL DATA

 Capacity
 0-850 GPM (US)
 0-53.6 L/s

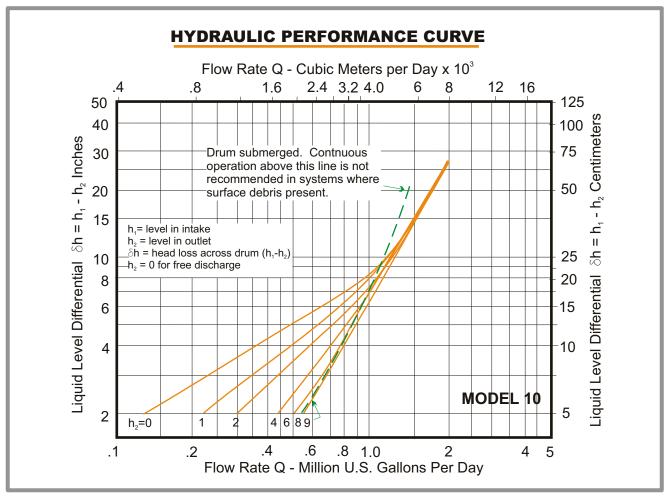
 Drum Diam.
 9.4 in
 23.9 cm

 Inlet Area
 97 in²
 625.8 cm²

 Outlet Area
 45 in²
 290.3 cm²

 Slot Width
 0.470 in
 12 mm

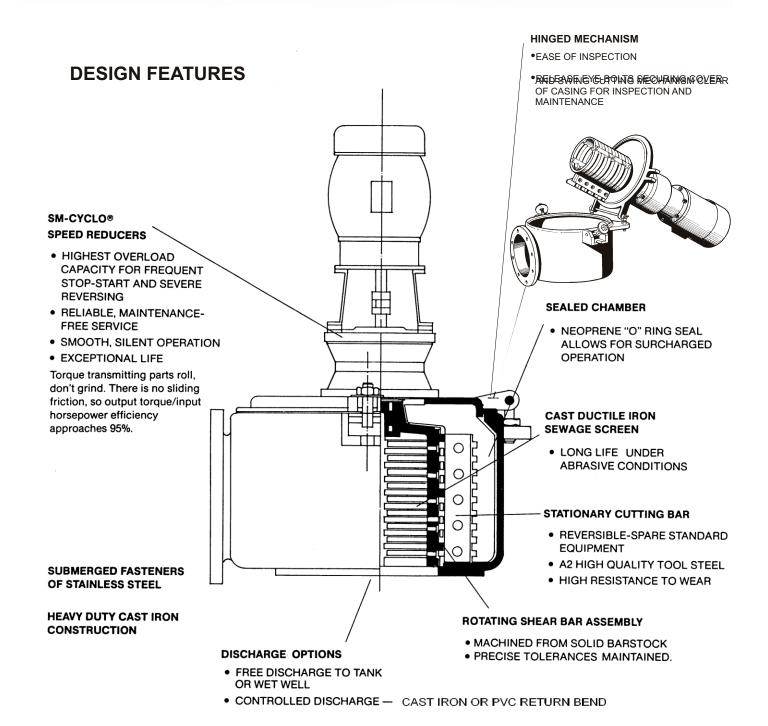
MODEL 10A - FREE DISCHARGE
MODEL 10B - CONTROLLED DISCHARGE WITH
CAST IRON RETURN BEND
PVC RETURN BEND



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PIPE MOUNTED MODEL 10 cont'd...



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MECHANICAL DETAIL

