Oct. 11

FEATURES

- 1. Single & Multi-Vane, Cast Iron, impellers with Tungsten Carbide tip., and serrated, High Chrome Cast Iron, field replaceable/ adjustable cutter plate, reduces solids to impeller thrulett size, providing for highly efficient, and trouble free pumping of raw sewage and waste water.
- 2. Double inside mechanical seals with silicon carbide faces. running in an oil filled chamber and further protected by a lip seal, equipped with an oil lifter, (2Hp. and above.), provides for the most durable seal design Available.
- 3. Highly efficient, continuous duty, air filled, copper wound motor with class F. B. E insulation minimizes the cost of operation.

4. Built in thermal, protector prevents motor failure due to overloading, single phasing (in three phase units), or accidental

C - SERIES

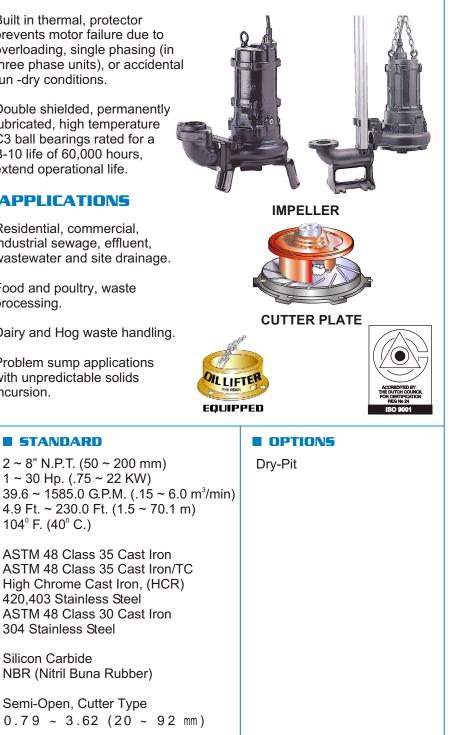
SEWAGE & WASTE WATER CUTTER PUMPS

5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours, extend operational life.

APPLICATIONS

run -dry conditions.

- 1. Residential, commercial, industrial sewage, effluent, wastewater and site drainage.
- 2. Food and poultry, waste processing.
- 3. Dairy and Hog waste handling.



Pre-lubricated, Double Shielded

Air Filled, 3600/1800/1200 Rpm, 60 Hz, 115V. or 230V. (1 Phase) 208-230 or 440, 460 or 575V. (3 Phase) Class E. B. F

Submersible Power Cable 32' (10 m)

TOS Slide rail system

Length as Required

230 V.,1 Ph. operation

(1~5 Hp.)

Nema 3R inverter available for

SPECIFICATIONS

4. Problem sump applications with unpredictable solids incursion.

STANDARD

104° F. (40° C.)

304 Stainless Steel

Silicon Carbide

SPECIFICATIONS

Discharge Size Horsepower Range Performance Range Capacity Head Maximum water temperature Materials of Construction Casing Impeller **Cutter Plate** Shaft Motor Frame Fasteners Mechanical Seal

Elastomers

Impeller Type Solids Handling Capability

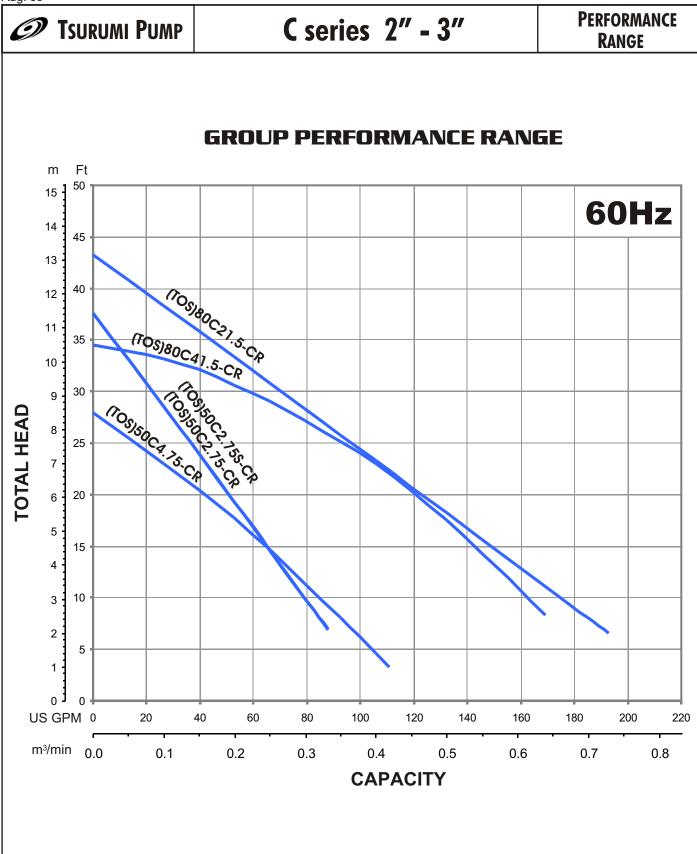
Bearings

Motor Nomenclature Type, Speed, Hz. Voltage, Phase

Insulation

Accessories



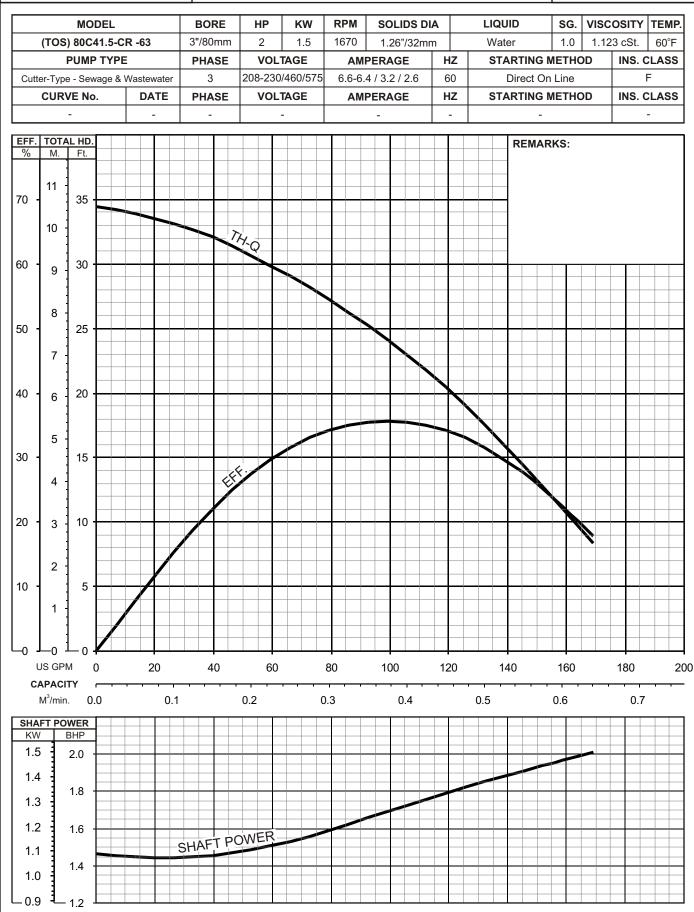


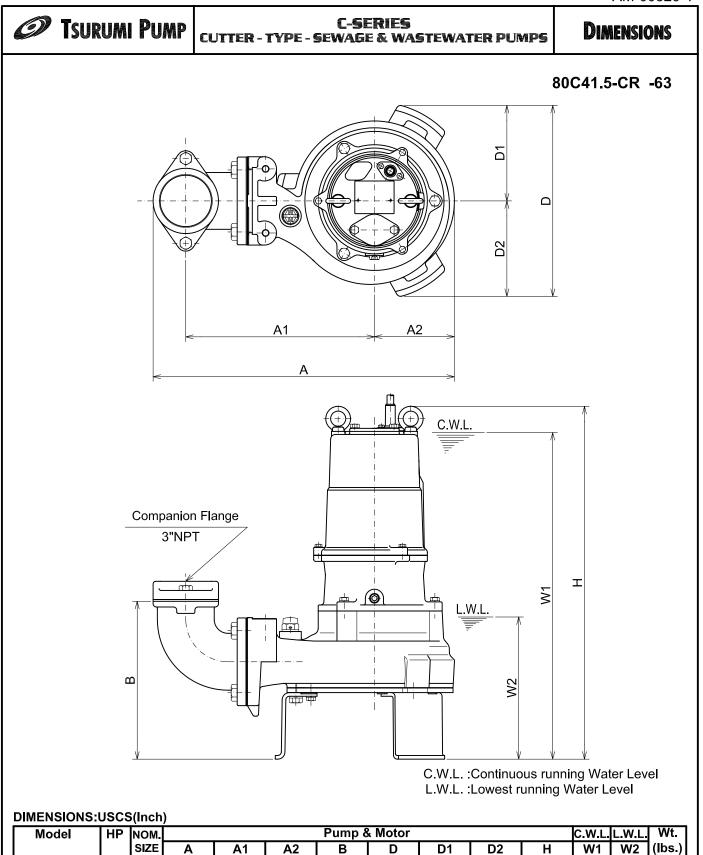


TSURUMI PUMP

C - SERIES CUTTER-TYPE - SEWAGE & WASTEWATER PUMPS

Performance Curve





DIMENSIONS:METRIC(mm)

2

3"

19 5/8

12 5/16

5 3/16

80C41.5-CR -63

Model	kW	NOM.	Pump & Motor									L.W.L.	Wt.
		SIZE	Α	A1	A2	В	D	D1	D2	Н	W1	W2	(kg)
80C41.5-CR 63	1.5	80	498	312	132	261	316	158	158	584	540	235	54

10 1/4

12 7/16

6 1/4

6 1/4

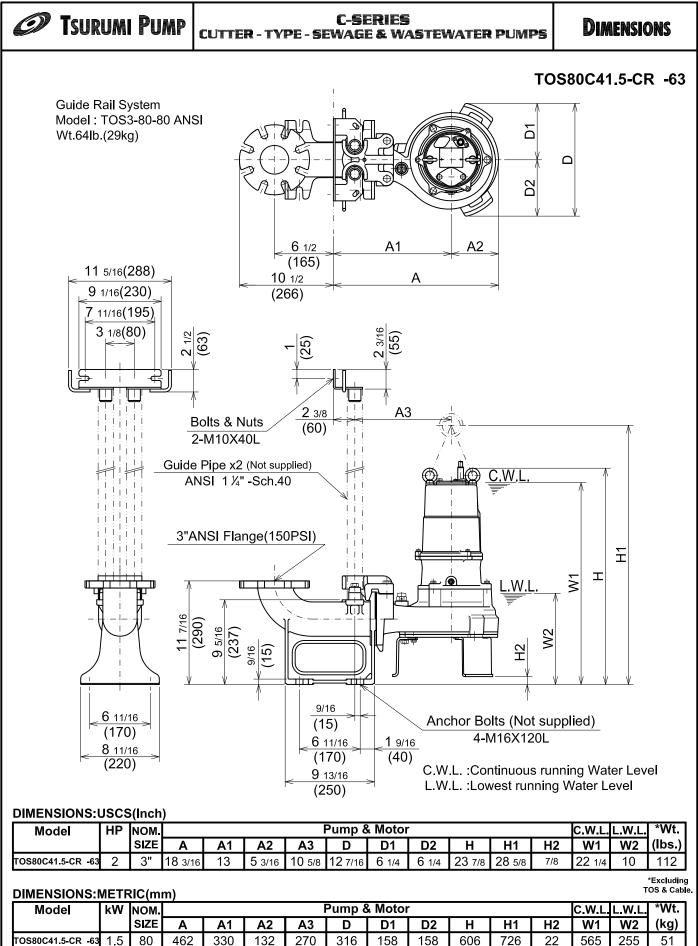
23

21 1/4

9 1/4

119

1.5



EN 1561 GJL-150

EN 1561 GJL-150

1.4301

1

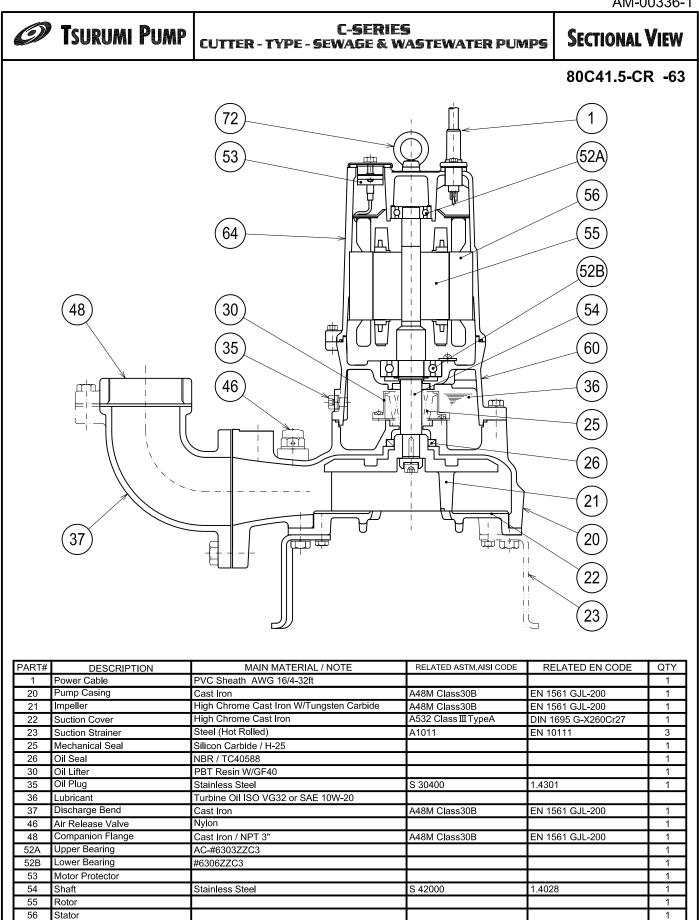
1

2

A48M Class25B

A48M Class25B

S 30400



Bearing Housing

Motor Housing

Lifting Lug Bolt

Cast Iron

Cast Iron

Stainless Steel

60

64

72



C – SERIES SEWAGE & WASTEWATER PUMPS

1. SCOPE OF SUPPLY -

Furnish and install TSURUMI Model ______ Submersible Pump(s). Each unit shall be capable of delivering _____GPM (____m³/min) at _____Feet (____m) TDH. The pump(s) shall be designed to pump waste water, sewage or effluent containing solids without damage during operation. The pump(s) shall be designed so that the shaft power required (BHP)/(kW) shall not exceed the motor rated output throughout the entire operating range of the pump performance curve. Pump unit(s) shall be designed so that cavitation will not occur at open discharge. The pump discharge size shall be ____inch, (____mm).

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) including pump casing, impeller, and discharge elbow shall be manufactured from gray cast iron, ASTM A48 CLASS 35. Unit(s) shall have a field adjustable and or replaceable, high chrome cast iron cutter plate. Internal and external surfaces coming into contact with the pumpage shall be protected by a fused polymer coating. All exposed fasteners shall be stainless steel. All units shall be furnished with a discharge elbow with 150 lb. (10 kg/cm²) flat face flange and NPT companion flange. Impellers shall be of the single or two-vane, semi-open, solids handling design equipped with tungsten carbide vane tip and shall be slip fit to the shaft and key driven. The pump casing shall incorporate an air relief valve.

3. MECHANICAL SEAL -

All units shall be furnished with a dual inside mechanical shaft seal located completely out of the pumpage, running in a separate oil filled chamber and further protected by an exclusionary oil seal located between the bottom seal faces and the fluid being pumped. Unit 2 Hp. and above shall be fitted with a device that shall provide positive lubrication of top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Mechanical seals shall rated to preclude the incursion of water up to 42.6 PSI. (98.4 Ft.). Units shall have silicon carbide mechanical seal faces. Mechanical seal hardware shall be stainless steel. Units designed to exceed 42.6 PSI. at shut off head shall incorporate seal pressure relief ports.

4. MOTOR -

5. POWER CABLE AND CABLE ENTRANCE -

The pump power cable shall be suitable for submersible pump applications. Units up to 5 Hp. shall be supplied with a cable entrance that incorporates built in strain relief, a one piece, three way mechanical compression seal with a fatigue reducing cable boot. On units 7.5 Hp. and above, the cable entrance shall incorporate built in strain relief, and combination three way mechanical compression sealing with a fatigue reducing/thermal expansion rubber boot. The power cable shall be field replaceable utilizing standard submersible pump cable. The cable entrance assembly on all units shall contain an anti-wicking block to eliminate water incursion into the motor due To capillary wicking should the power cable be accidentally damaged.