

**TSURUMI PUMP**

**C** 3-phase  
50Hz

Sewage pump with cutter mechanism

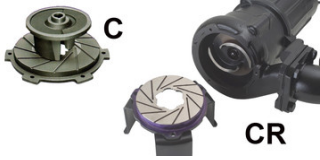
Saw-shaped fixed blades are used in combination with carbide blades in an impeller-integrated structure. This construction ensures that fibrous foreign matter is cut up and sewage is transferred without clogging.



## Canal impeller with cutter mechanism



**C** 3-phase  
50Hz

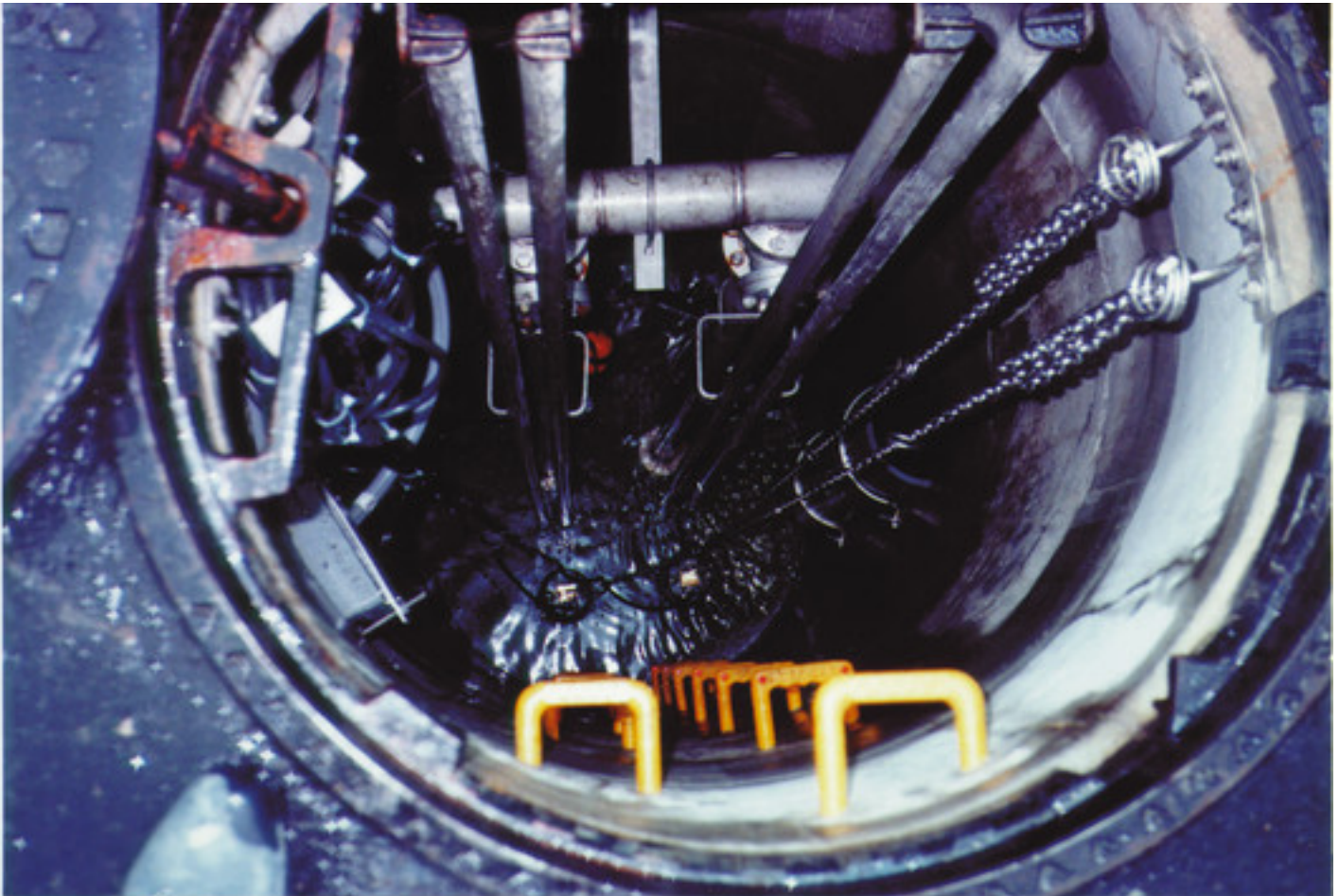


### Non-clog impeller with cutter mechanism

A "cutter mechanism" is provided by the combined action of a carbide blade integrated into a non-clog impeller and the saw-shaped inner surface of a suction cover. Please carefully consider type of solids and maximum passage way when selecting a cutter pump. For support, please contact Tsurumi or your local dealer.

### Optional Accessories:

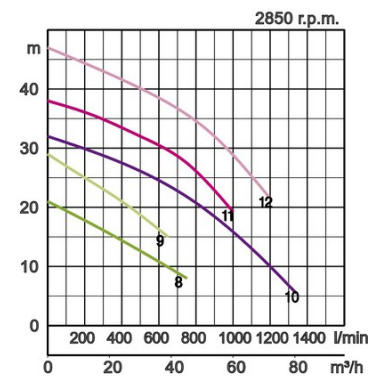
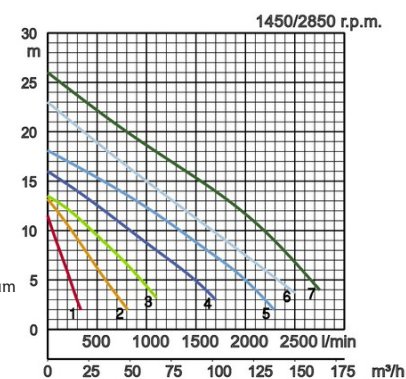
- Guide rail fitting consisting of:
  - Guide support / Guide hook
  - Duck foot bend
  - Lifting chain
- Discharge bend
- Stand for free standing type (5,5kW or over)



**Specifications:**

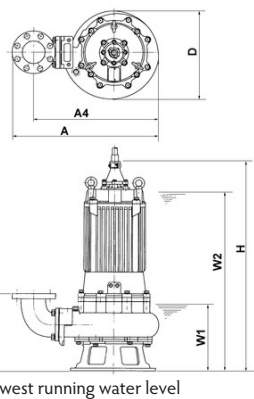
Model		Colour code	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable		Impeller passage mm
free standing	with guide rail fitting									free standing	with guide rail fitting	
50C2.75	TOS50C2.75	1	50	0,75	3	2850	11,5	335	direct	24,0		21
80C21.5	TOS80C21.5	2	80	1,5	3	2850	13,2	810	direct	36,0		37
100C42.2	TOS100C42.2	3	100	2,2	3	1450	13,5	1100	direct	70,0		44
100C43.7	TOS100C43.7	4	100	3,7	3	1450	16,0	1700	direct	86,0		60
100C45.5	TOS100C45.5	5	100	5,5	3	1450	18,1	2290	direct	140,0		40
100C47.5	TOS100C47.5	6	100	7,5	3	1450	23,0	2500	direct	159,0		40
100C411	TOS100C411	7	100	11	3	1450	26,0	2750	star/delta	184,0		50
80C22.2-CR	TOS80C22.2-CR	8	80	2,2	3	2850	21,0	750	direct	70,0		20x31
80C23.7-CR	TOS80C23.7-CR	9	80	3,7	3	2850	29,0	650	direct	70,0		22x31
80C25.5-CR	TOS80C25.5-CR	10	80	5,5	3	2850	32,0	1340	direct	125,0		29x23
80C27.5-CR	TOS80C27.5-CR	11	80	7,5	3	2850	38,0	1000	direct	130,0		26x23
80C211-CR	TOS80C211-CR	12	80	11	3	2850	47,0	1200	star/delta	160,0		26x25,5

Discharge bore mm		50mm, 80mm, 100mm	
Pumping Fluid	Temperature	0-40°C	
	Type of Fluid	Wastewater and liquid carrying waste and foreign matters	
Pump	Components	Impeller	Non-clog impeller with cutter mechanism
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Grey iron casting EN-GJL-200 with sintered tungsten carbide alloy tip, Chromium iron casting with sintered tungsten carbide alloy tip
		Casing	Grey iron casting EN-GJL-200
		Suction Plate	Ductile iron casting EN-GJS-700-2, Chromium iron casting
Shaft Seal	Silicon carbide in oil bath		
Motor	Type, Poles	Induction motor, 2 poles, IP68, Induction motor, 4 poles, IP68	
	Lubrication	Turbine oil (ISO VG32)	
	Insulation	Insulation class E, Insulation class F	
	Motor Protector (built-in)	Circle thermal cut-out	
	Phase / Voltage	3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.	
	Material	Casing	Grey iron casting EN-GJL-150, Grey iron casting EN-GJL-200
Shaft		Stainless steel EN-X6Cr13, Stainless steel EN-X30Cr13	
Cable		Rubber, 10m H07RN-F	
Discharge Connection	Inside thread, JIS10K flange		
Optional Accessories	Guide rail fitting "TOS" (guide support, duck foot bend, lifting chain) / Bend and stand set for free standing types		



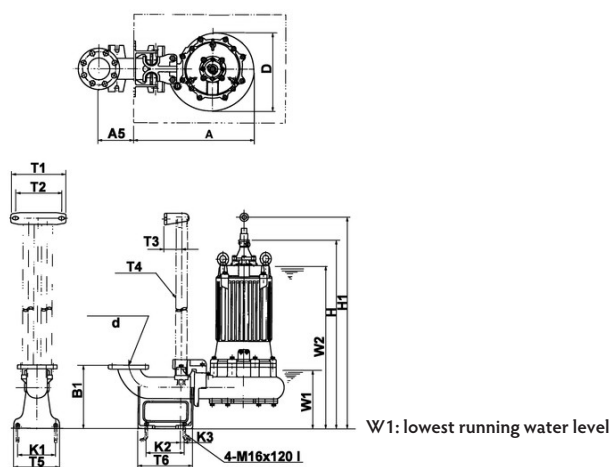
**Dimensions in mm:**

Model	A	A4	B	D	H	W1	W2
50C2.75	405	351	196	250	415	145	385
80C21.5	446	392	234	250	536	190	465
100C42.2	594	489	328	324	616	225	570
100C43.7	602	497	333	331	680	235	635
100C45.5	687	582	372	400	824	335	700
100C47.5	687	582	372	400	814	335	720
100C411	710	605	372	431	1000	300	840
80C22.2-CR	519	427	289	260	611	180	565
80C23.7-CR	519	427	291	260	613	180	565
80C25.5-CR	615	522	320	345	879	225	745
80C27.5-CR	615	522	320	345	879	225	745
80C211-CR	615	522	320	345	927	225	770



Dimensions - guide rail fitting type in mm:

Model	A	D	H	H1	W1	W2
50C2.75	368	250	459	650	190	430
80C21.5	410	250	586	-	240	515
100C42.2	484	324	631	790	240	585
100C43.7	490	339	690	860	245	645
100C45.5	619	384	822	1160	305	690
100C47.5	619	384	812	1155	305	710
100C411	642	431	934	1265	300	805
80C22.2-CR	435	260	640	860	205	595
80C23.7-CR	435	260	640	860	205	595
80C25.5-CR	530	320	877	1200	220	745
80C27.5-CR	530	320	877	1200	220	745
80C211-CR	165	320	925	1250	220	765



Discharge bore mm	d	T1	T2	T3	T4	T5	T6	K1	K2	K3	B1
50mm	50	230	185	50	25	160	200	120	120	10	250
80mm	80	230	195	60	32	220	250	170	170	15	290
100mm	100	230	195	60	32	220	250	170	170	15	290

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We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.

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