



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.



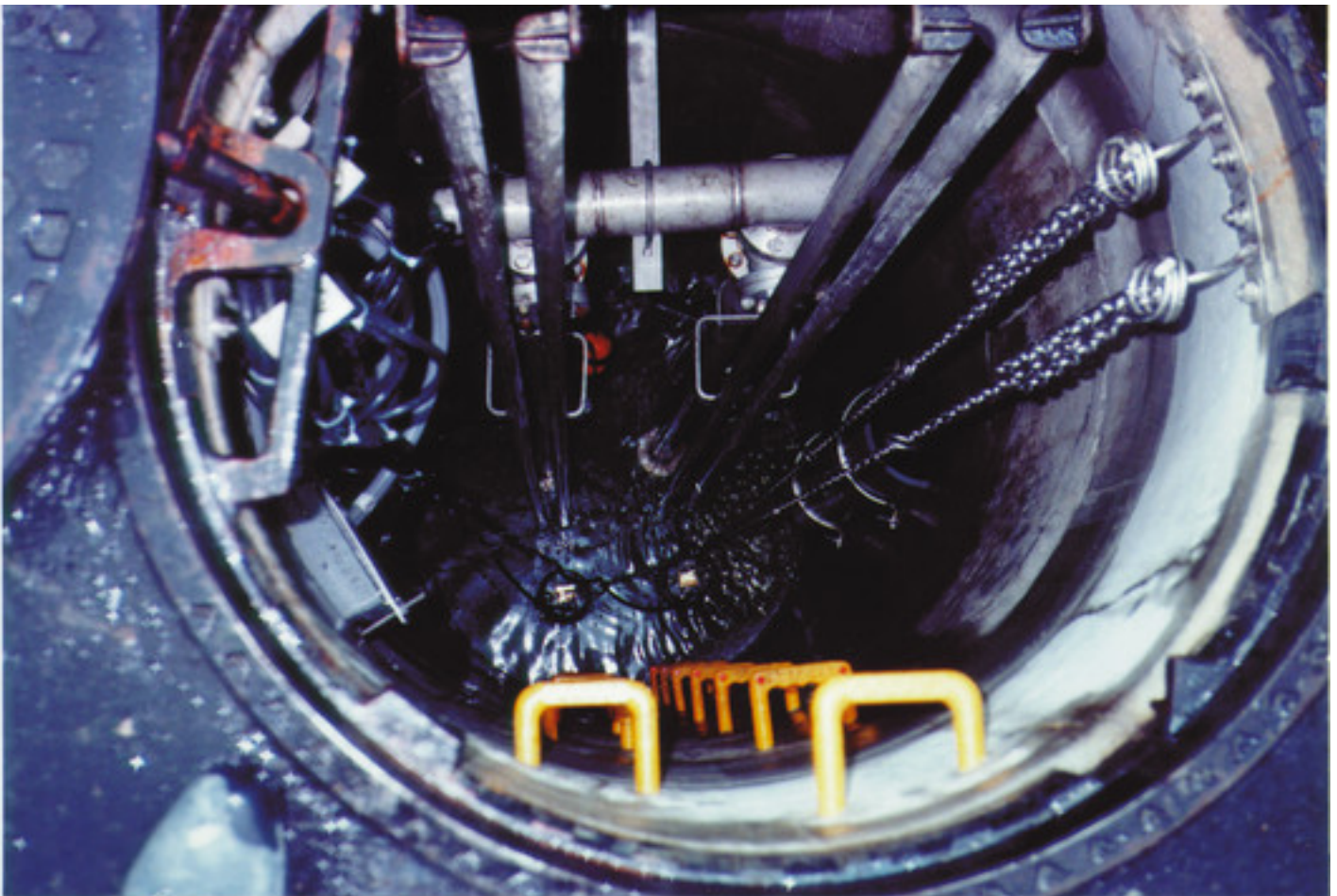


Non-clog impeller with cutter mechanism

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:

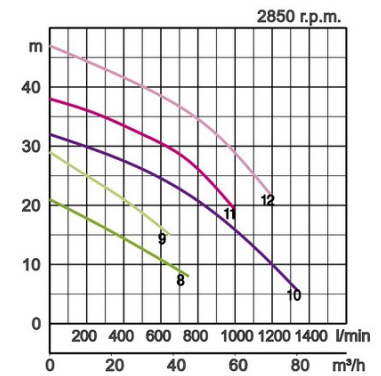
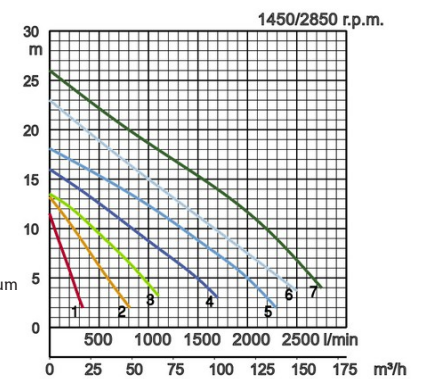
- Guide rail fitting consisting of:
 - Guide support / Guide hook
 - Duck foot bend
 - Lifting chain
- Discharge bend
- Stand for free standing type (5,5kW or over)



Specifications:

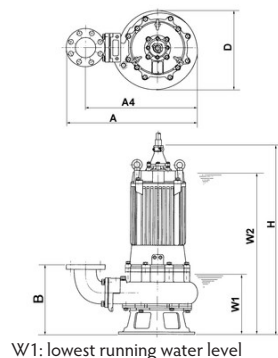
Model		Colour code curve	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable		Impeller passage mm
free standing	with guide rail fitting									free standing	with guide rail fitting	
50C2.75	TOS50C2.75	1	50	0,75	3	2850	11,5	335	direct	24,0	23,0	21
80C21.5	TOS80C21.5	2	80	1,5	3	2850	13,2	810	direct	36,0	34,0	37
100C42.2	TOS100C42.2	3	100	2,2	3	1450	13,5	1100	direct	70,0	64,0	44
100C43.7	TOS100C43.7	4	100	3,7	3	1450	16,0	1700	direct	86,0	80,0	60
100C45.5	TOS100C45.5	5	100	5,5	3	1450	18,1	2290	direct	140,0	133,0	40
100C47.5	TOS100C47.5	6	100	7,5	3	1450	23,0	2500	direct	159,0	152,0	40
100C411	TOS100C411	7	100	11	3	1450	26,0	2750	star/delta	184,0	177,0	50
80C22.2-CR	TOS80C22.2-CR	8	80	2,2	3	2850	21,0	750	direct	70,0	64,0	20x31
80C23.7-CR	TOS80C23.7-CR	9	80	3,7	3	2850	29,0	650	direct	70,0	64,0	22x31
80C25.5-CR	TOS80C25.5-CR	10	80	5,5	3	2850	32,0	1340	direct	125,0	117,0	29x23
80C27.5-CR	TOS80C27.5-CR	11	80	7,5	3	2850	38,0	1000	direct	130,0	122,0	26x23
80C211-CR	TOS80C211-CR	12	80	11	3	2850	47,0	1200	star/delta	160,0	152,0	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	Insulation	Insulation class E, Insulation class F	
	Lubrication	Turbine oil (ISO VG32)	
	Phase / Voltage	3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.	
	Motor Protector (built-in)	Circle thermal cut-out	
	Type, Poles	Induction motor, 2 poles, IP68, 4 poles	
	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, NSSHÖU	
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		



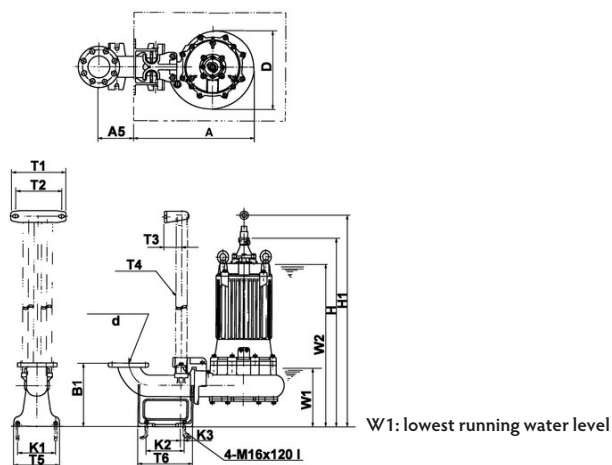
Dimensions in mm:

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	A5	D	H	H1	W1	W2
50C2.75	368	175	250	459	650	190	430
80C21.5	410	165	250	586	-	240	515
100C42.2	484	165	324	631	790	240	585
100C43.7	490	-	339	690	860	245	645
100C45.5	619	181	384	822	1160	305	690
100C47.5	619	181	384	812	1155	305	710
100C411	642	181	431	934	1265	300	805
80C22.2-CR	435	165	260	640	860	205	595
80C23.7-CR	435	165	260	640	860	205	595
80C25.5-CR	530	165	320	877	1200	220	745
80C27.5-CR	530	165	320	877	1200	220	745
80C211-CR	165	530	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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