

■ Features

● Adopting stainless steel for main components

The main components, such as frame, screen bar and rake, are made of stainless steel and thus provide strength and durability.

● Adopting inner chain structure

Carriage chain is built in the frame and not exposed in front of screen, preventing sludge or dirt passing through the screen from attaching to carriage chain or sprocket in the lower part of the machine.

● Adopting link-type bar support device

Link-type bar support mechanism (excluding BS1N and BS1H) prevents screen bar from sagging due to its own weight. This mechanism provides less wear and higher durability than a rake-type bar support mechanism.

● Adopting reduction gear with submergence tolerance.

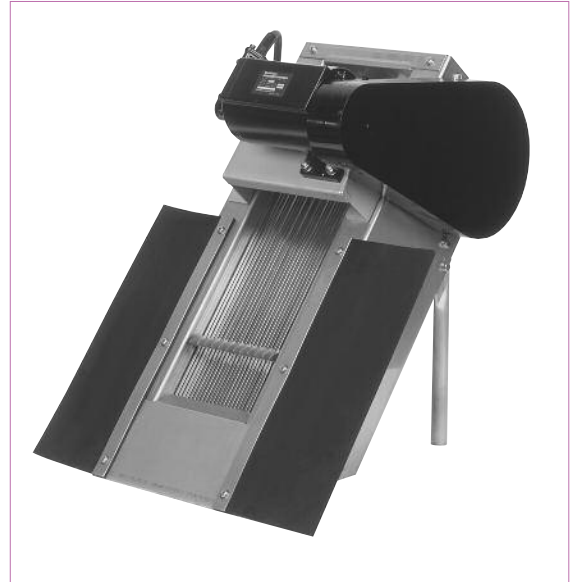
Adopts a proven reduction gear with submergence tolerance. In the event that a reduction gear built-in motor is submerged due to an unexpected increase in water, screen can be used continuously provided that such submergence is detected early and appropriate measures are taken.

Note 1

A special rake needs should be mounted to handle screen residues containing food oils or having a nearly spherical shape. Please contact us.

Note 2

To respond the needs of industrial water treatment facilities, we can change a rake speed or number of rakes. Please contact us.



■ Applications

- Removing suspended solids
- Removing suspended solids at industrial water treatment facilities

■ Main Specifications

Material of FramesStainless steel
 Coating for FramesNone
 Reduction GearEpoxy resin coating
 Cable: VCT 1.25mm², 4 cores, outer diameter: φ 11.5

■ Examples of Modification

- Changing the length of a rubber sealer (Changes to a water channel width)

Standard Specifications

Capacity (Clear water) (m ³ /h)	Silt (mm)	Model							
		BS1H	BS2H	BS3H	BS1N	BS2N	BS3N	BS4N	BS5N
	1	18	25	43	18	25	43	86	99
	2	23	45	65	23	45	65	106	145
	2.5	27	50	75	27	50	75	130	179
	5	38	70	105	38	70	105	182	240
	10	43	75	112	43	75	112	206	251
	20	47	88	130	47	88	130	226	260
	30	50	92	138	50	92	138	240	276
	50	-	-	-	-	-	-	252	290
Rake-up Speed (m/min)	1.9/2.3(50/60Hz)								
Motor	25 W, 3-phase, 200V (with submergence tolerance)				0.1 kW, 3-phase, 200V (with submergence tolerance)				
Weight (kg)	21 - 24	28 - 33	29 - 37	21 - 24	28 - 33	29 - 37	32 - 50	43 - 68	
Applicable Channel Width (mm)	300 - 400						500 - 600		
Standard Accessories	Cable (VCT 1.25mm ² , 4 cores, outer diameter: ϕ 11.5) \times 6 m Trash Basket (made of stainless steel) \times 1 unit Spare Belt \times 1 pc.								

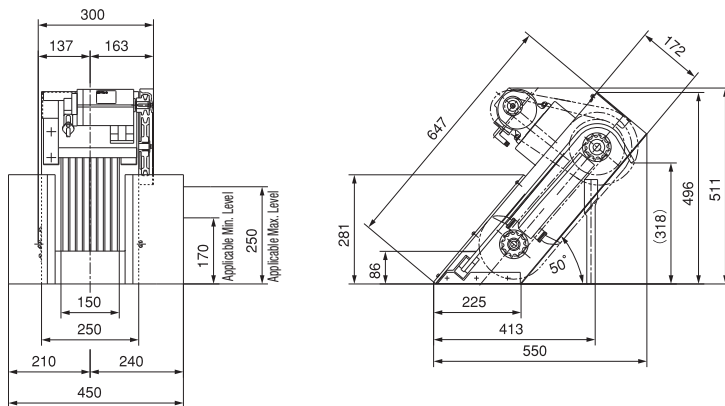
Note 1: A manual handle type is also available (only for BS1H, BS2H, BS1N and BS2N)

Note 2: We will receive a special order for BS1H - 3H and 1N - 3N with a silt of 50 mm. Please contact us.

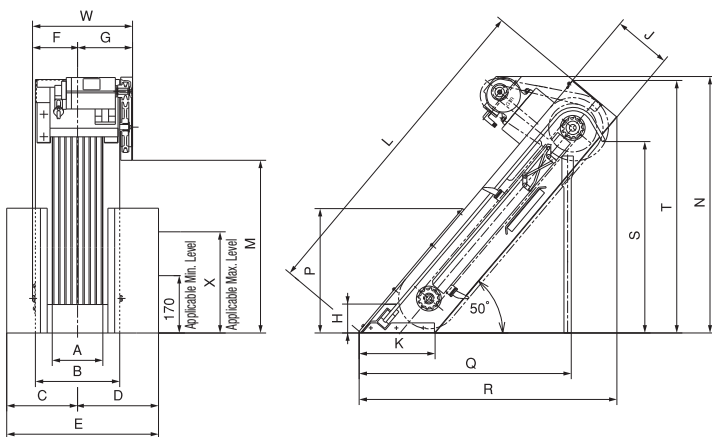
Dimensions

Unit: mm

BS1N, BS1H



BS2N, BS3N, BS4N, BS5N, BS2H, BS3H

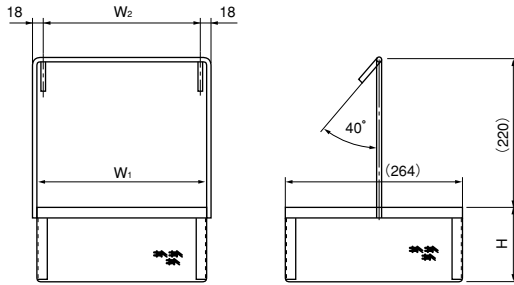


Model	BS2N BS2H	BS3N BS3H	BS4N	BS5N
A	150	150	350	350
B	250	250	450	450
C	210	210	335	335
D	240	240	365	365
E	450	450	700	700
F	137	137	237	237
G	163	163	263	263
H	86	86	86	86
J	172	172	172	172
K	225	225	225	225
L	981	1,140	1,140	1,568
M	531	653	653	982
N	766	894	894	1,216
P	370	570	570	650
Q	629	731	734	1,010
R	765	868	868	1,143
S	573	701	701	1,023
T	751	879	879	1,201
W	300	300	500	500
X	330	510	510	580

Dimensions

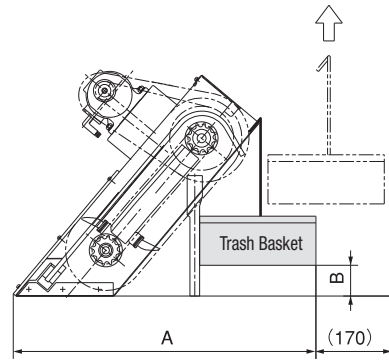
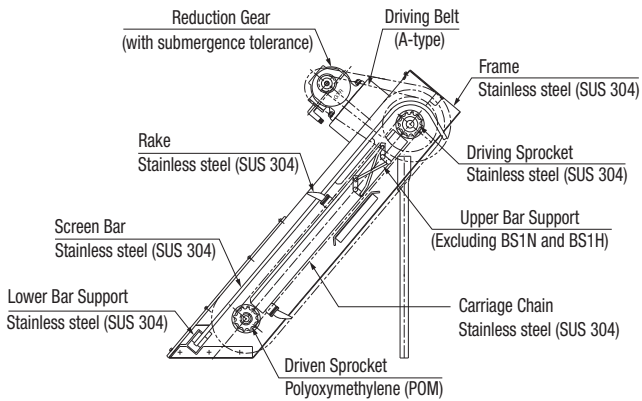
Unit: mm

Dimensions of Trash Basket



H	W1	W2	Applicable Model
110	254	230	BS1N · 1H
180	254	230	BS2N · 3N · 2H · 3H
200	454	430	BS4N · 5N

Structure and Main Materials

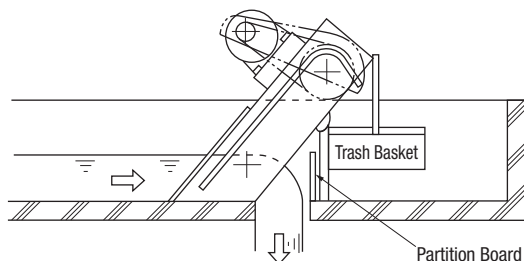


A	B	Applicable Model
677	69	BS1N · 1H
893	254	BS2N · 2H
995	382	BS3N · 3H
998	362	BS4N
1,274	684	BS5N

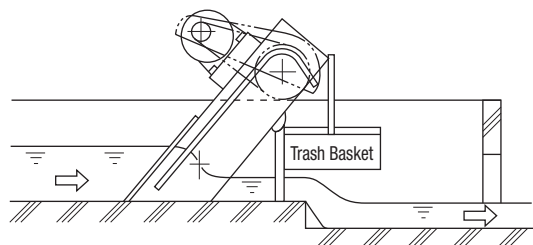
Dimensions of Trash Basket removed (mm)

Installation Example

A partition board is provided to drop water



A step is provided behind the screen to lower the water level



■ Features

● Low cost

No operation cost is necessary as screen is not power driven. The screen has less failure due to its simple structure, thereby reducing maintenance cost.

● Simple installation

Can be installed easily as it does not require a large installation space and is lightweight.

■ Main Specifications

Material: Stainless steel

Coating: Non

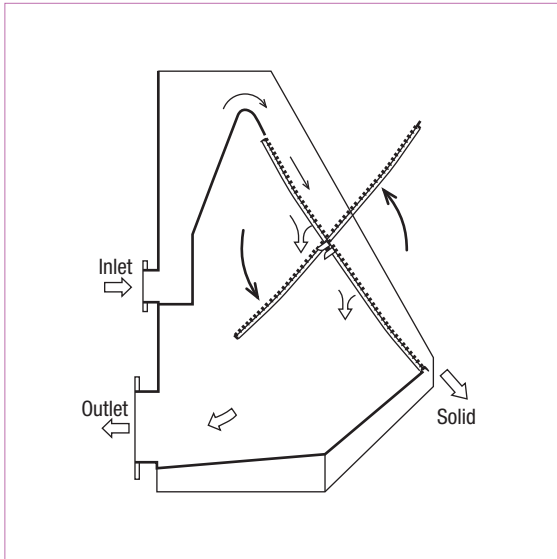


■ Applications

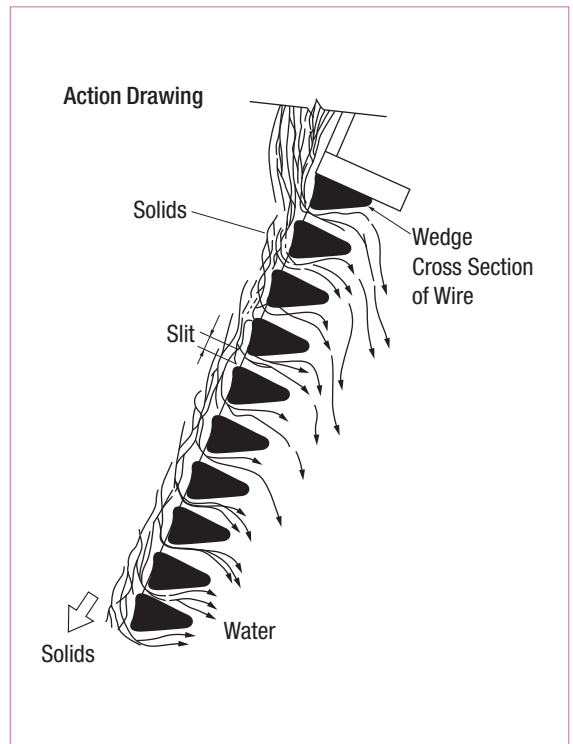
- Removing suspended solids at sewage-treatment plants or septic tanks.
- Material collection or effluent treatment processes at paper pulp plants
- Industrial water treatment processes in food, fiber and chemical industries
- Sorting, selecting or filtering mining soil or earth and sand
- Removing suspended solids from snow-melting water (generally, river water)

Explanation Drawing

The SS screen mainly structure with a welded wedge wire having a wedge shaped cross section. Wastewater entered from an inlet overflows into the screen where it is separated into solids and water. Water naturally flows out of an outlet and solids gradually slip down on wedge wire.



Detailed Drawing



Processing Capacity

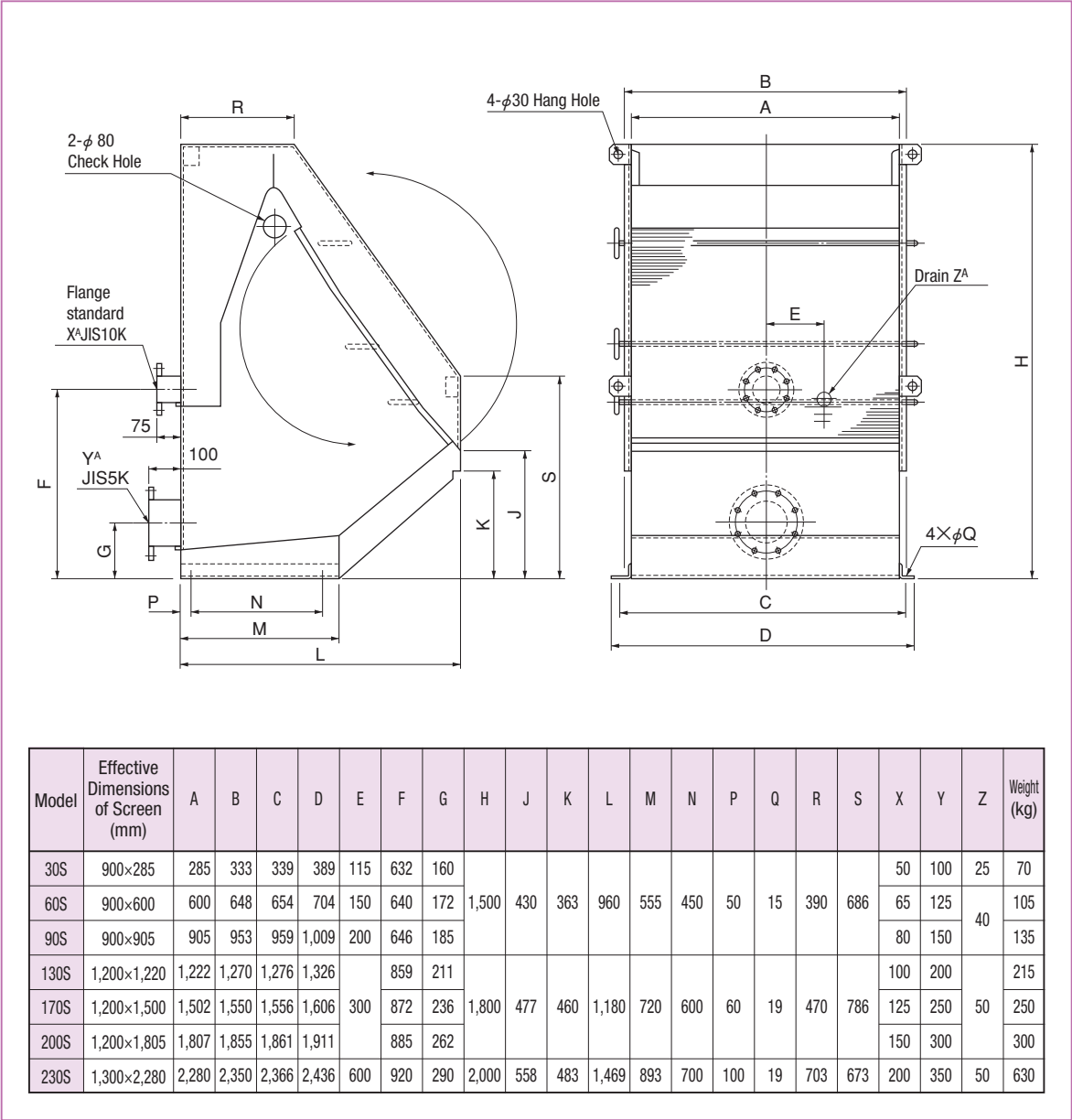
The following table shows approximate values. The processing capacity of the wastewater of the same type varies significantly, depending on liquid quality. Be sure to determine the type of model after checking actual liquid. Unit: m³/h

Type of Wastewater	Slit mm	Model						
		30S	60S	90S	130S	170S	200S	230S
Clear Water	0.25	16	32	48	85	106	127	160
	0.5	18	36	54	95	118	141	178
	0.75	20	40	60	106	132	158	199
	1.0	22	44	66	117	146	175	221
	1.5	24	48	72	127	158	189	238
	2.0	27	54	81	143	178	213	269
Processing Pulp White Water	0.25	5	10	15	26	32	38	48
Dyeing Wastewater	0.5	7	14	21	38	47	56	70
Piggery Effluent	0.5	9	18	27	47	59	70	88
Kitchen Wastewater	0.5	14	28	43	76	94	113	142
Incineration Wastewater at Garbage Disposal Facilities	0.5	14	28	43	76	94	113	142
Fish Meet or Leather Wastewater	0.5	10	21	32	55	67	80	101
Labeling process at beer plants	0.5	11	22	33	57	71	85	107
Condensed Waste Newspapers	0.5	9	18	27	45	56	67	84
Mixed Wastewater at Beer Plants	0.5	16	32	48	86	106	127	160
Vegetable Waste and Pickle Wastewater	0.75	15	30	45	80	99	119	150
Sewage	1.0	18	35	53	94	117	140	176

S	SS Screen
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■ Dimensions

Unit: mm



■ Slit list

Unit: mm

0.25	0.5	0.75	1.0	1.5	2.0
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* The screens with a slit of 0.2, 0.3, 0.4, 0.6 and 0.9 are also available.