

*W*ILL SCREEN & PLANT
BUSINESS – PLANT

❖ General Information

- Will Screen & Plant Co., Ltd, since established in 2001, has been growing steadily by manufacturing, engineering, delivering Profile Wedge Wire Screens and other related internals to domestic and oversea petrochemical, water & wastewater and the other industrial plants, however as customer needs are growing, plant business has become one of the most important businesses for Will Screen & Plant.
- With our accumulated technical knowledge and experiences of manufacturing, installation in the various conditions, we have continuously developed to manufacture, design and provide the filtration complete systems which are a combination of profile wedge wire screen and pressure vessel such as Auto Strainer, Intake Screen, Drum Screen, Cartridge Filters, Intake Screens with the best quality and price.
- Our company has also established its institute of technology to provide state of the art products to customers and we also gained ISO 9001, ISO 14001, ISO45001 to become a global leading manufacturer in the filtration industry.

❖ Applicable Products

- Auto Strainer – Cylinder Type
- Auto Strainer – Basket Type
- Auto Strainer – Cartridge Type
- Mechanical Bar Screen
- Drum Screen
- Hydro Sieve Screen
- Intake Screen
- Pressure Vessel
- Steel Structure





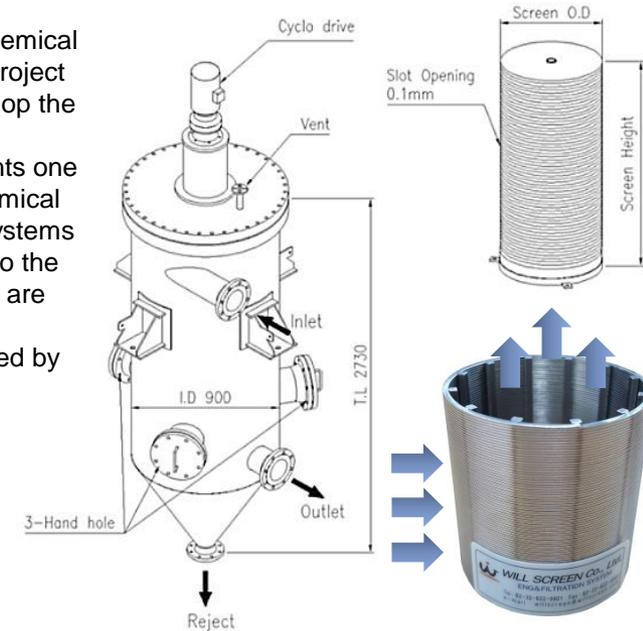
**CYLINDER TYPE
AUTO STRAINER**

• General Information

WILL SCREEN & PLANT has a long history of leading the petrochemical industry in developing new technologies. With a great number of project experiences and technical knowledge, we have been able to develop the products unique to petrochemical industry with patents and design innovations. This cylindrical type Self Cleaning Filter also represents one segment of WILL SCREEN & PLANT product portfolio in petrochemical industry. This special machine is perfectly suited for flow supply systems with high flow rates. The fluid enters through the inlet and flows into the screen drum and exit through the outlet in the bottom while rejects are removed periodically from the bottom of the vessel. Screen are manufactured by wedge wire and its surface is continuously cleaned by slowly rotating doctor blades

• Applicable Industry

- Petrochemical
- Rubber EPDM Plant
- Latex Plant
- PTE Plant
- Coating Color
- Pigment Slurries

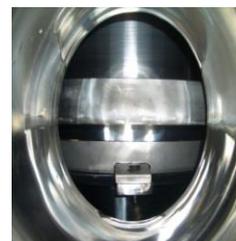


• Design Specification

| LIST | DESCRIPTION |
|------------------------------------|---|
| Design Code | ASME SEP. VII, CSEL, JIS&KS |
| Design Material (Body & Internals) | SUS 304(L), 316(L), 321, 347, Duplex, Hastelloy, Carbon Steel |
| Internal Coating | Rubber Lining, Flat Lining and etc. |

• Design Flow

| MICRON | MESH | L/M |
|--------|------|------|
| 150 | 100 | 1700 |
| 125 | 125 | 1300 |
| 100 | 150 | 740 |



AUTO STRAINER



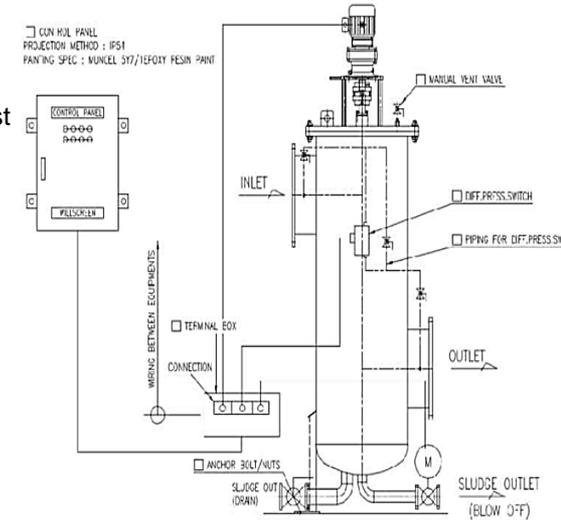
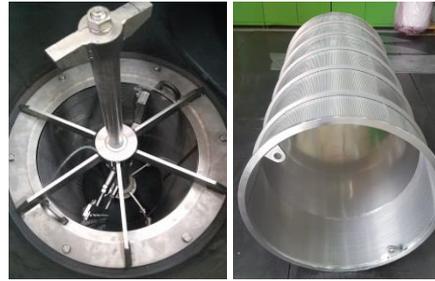
**BASKET TYPE
AUTO STRAINER**

• General Information

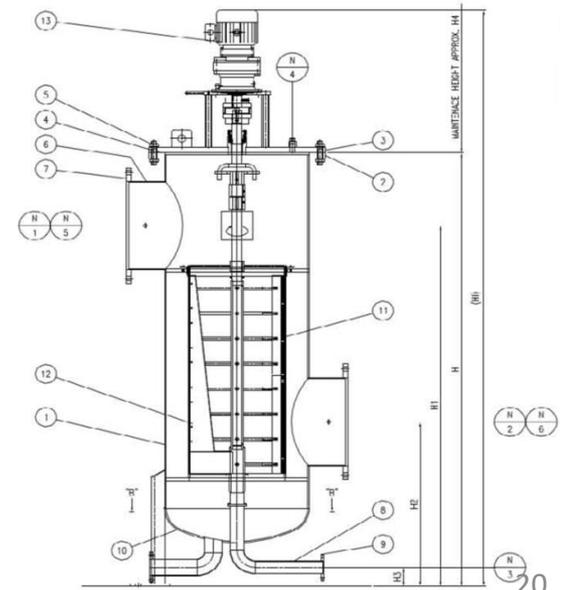
WILL S&P Auto Strainer system is specially designed to clean the water and wastewater while automatically removing sludge and debris on the screen surface without stopping the operation by several ways of automatic cleaning system – backwashing, scraping, water jet & intake system. Our profile wire screen with drum shaped design provides highest open area and lessens clogging caused by sludge and residues. Drive motor makes a rotation during screening process while sludge on the screen surface is removed periodically through automatic disposal valve by predetermined timer. If differential pressure(DP) occurs before preset time, cleaning system starts to operate as motor operating valve(MOV) automatically opens.

• Applicable Industry

- Industrial Wastewater
- Desalination plant
- LNG/LPG Plant
- Marine Plant
- Power Plant
- Paper & Pulp



| Model No. | INLET | OUTLET | L1 | L2 | H1 | H2 | H3 | H4 | HI | H | W1 | W2 | ØX | ØY | WEIGHT 150LB |
|------------|-------|--------|------|-----|------|------|-----|------|------|------|-----|-----|------|----|--------------|
| VAS-BS-80 | 80 | 3" | 440 | 200 | 560 | 355 | 80 | 410 | 1125 | 680 | 50 | 130 | 330 | 19 | 99 |
| VAS-BS-100 | 100 | 4" | 480 | 230 | 795 | 450 | 80 | 620 | 1455 | 955 | 60 | 150 | 400 | 19 | 174 |
| VAS-BS-150 | 150 | 6" | 560 | 260 | 1000 | 540 | 90 | 810 | 1750 | 1200 | 60 | 170 | 460 | 19 | 257 |
| VAS-BS-200 | 200 | 8" | 640 | 280 | 1140 | 600 | 90 | 950 | 1950 | 1380 | 50 | 185 | 520 | 23 | 343 |
| VAS-BS-250 | 250 | 10" | 700 | 310 | 1370 | 730 | 100 | 1130 | 2195 | 1610 | 50 | 200 | 600 | 23 | 474 |
| VAS-BS-300 | 300 | 12" | 900 | 330 | 1490 | 750 | 100 | 1260 | 2400 | 1750 | 50 | 200 | 650 | 23 | 639 |
| VAS-BS-350 | 350 | 14" | 920 | 380 | 1740 | 860 | 100 | 1480 | 2710 | 2060 | 100 | 220 | 740 | 23 | 867 |
| VAS-BS-400 | 400 | 16" | 1120 | 450 | 2125 | 1025 | 120 | 1820 | 3425 | 2525 | 120 | 325 | 920 | 27 | 1325 |
| VAS-BS-500 | 500 | 20" | 1400 | 550 | 2480 | 1130 | 130 | 2250 | 2980 | 2980 | 160 | 325 | 1250 | 35 | 2277 |
| VAS-BS-600 | 600 | 24" | 1600 | 650 | 2860 | 1310 | 145 | 2530 | 3410 | 3410 | 200 | 400 | 1500 | 35 | 3500 |
| VAS-BS-650 | 650 | 26" | 1700 | 750 | 3240 | 1490 | 145 | 2900 | 3890 | 3890 | 220 | 400 | 1600 | 35 | 4217 |





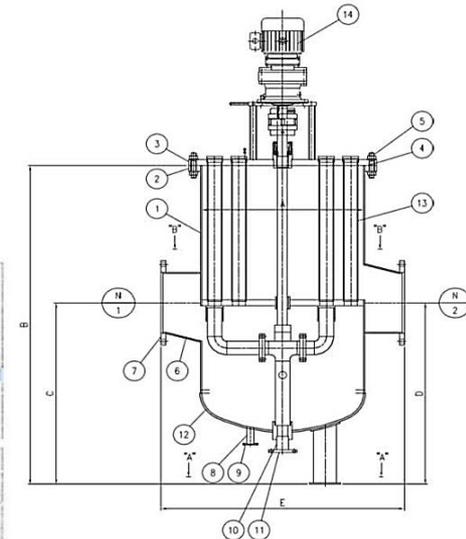
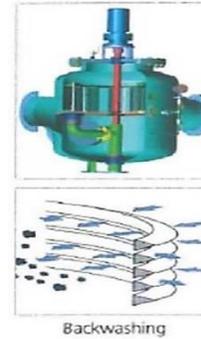
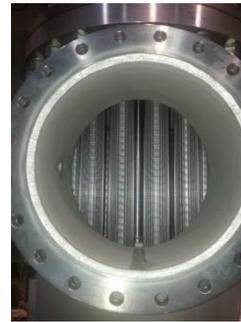
**CARTRIDGE TYPE
AUTO STRAINER**

• General Information

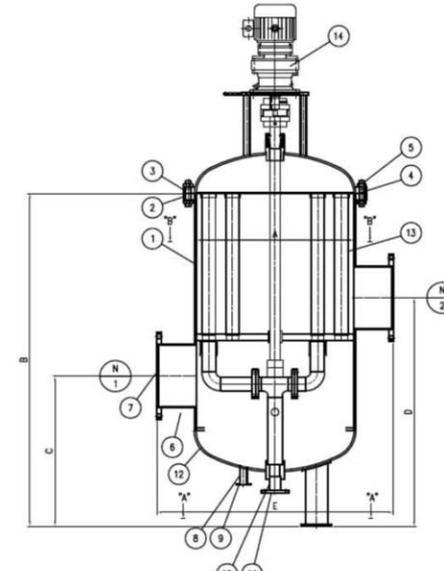
WILL S&P Cartridge Filter is generally divided into Manual and Auto type. Manual Cartridge Filter consists of housing vessel and filter elements (PP / Profile wire manual filter / Metal filter) which should be replaced manually and periodically whereas Auto Cartridge Filter is equipped with auto backwashing system that can keep screens clean during operation which gives the highest cost and time efficiency. The operation principle of Auto Cartridge Filter is basically same as Auto Strainer system but It is precisely designed to filter the much smaller particles and our profile Wedge wire screen can be made up to 25 microns.

• Applicable Industry

- Petrochemical
- Industrial Wastewater
- Semiconductor
- Power plant
- Marine Plant



TYPE #1



TYPE #2

| Model No. | INLET | OUTLET | A | B | C | D | E | F | KW(HP) | B/W CARTRIDGE | WEIGHT 150LB |
|------------|-------|--------|------|------|------|------|------|-----|----------|---------------|--------------|
| VAS-CN-50 | 50 | 2" | 250 | 720 | 350 | 350 | 550 | 180 | 0.4(1/2) | 1 | 80 |
| VAS-CN-80 | 80 | 3" | 300 | 720 | 350 | 350 | 600 | 230 | 0.4(1/2) | 1 | 150 |
| VAS-CN-100 | 100 | 4" | 400 | 1120 | 450 | 450 | 700 | 330 | 0.75(1) | 2 | 220 |
| VAS-CN-125 | 125 | 6" | 450 | 1120 | 450 | 450 | 750 | 380 | 0.75(1) | 2 | 300 |
| VAS-CN-150 | 150 | 8" | 500 | 1250 | 600 | 600 | 800 | 430 | 0.75(1) | 3 | 420 |
| VAS-CN-200 | 200 | 10" | 600 | 1250 | 750 | 750 | 960 | 530 | 1.5(2) | 3 | 580 |
| VAS-CN-250 | 250 | 12" | 750 | 1430 | 950 | 950 | 1110 | 680 | 1.5(2) | 5 | 790 |
| VAS-CN-300 | 300 | 14" | 800 | 1670 | 1000 | 1000 | 1360 | 700 | 2.2(3) | 8 | 1200 |
| VAS-CN-400 | 400 | 16" | 900 | 2050 | 1100 | 1100 | 1400 | 700 | 2.2(3) | 8 | 2100 |
| VAS-CN-500 | 500 | 20" | 1000 | 2200 | 1200 | 1200 | 1500 | 750 | 5.0(3.7) | 8 | 3000 |
| VAS-CN-600 | 600 | 24" | 1300 | 2500 | 1400 | 1400 | 1650 | 850 | 5.0(3.7) | 8 | 3500 |

INTAKE SCREEN



INTAKE SCREEN

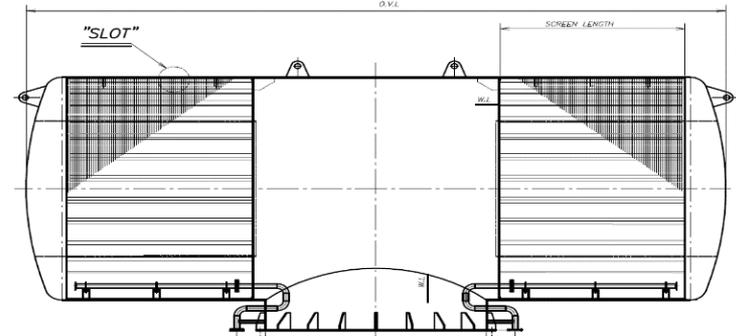
• General Information

Will Screen & Plant Intake screen system is capable of water withdrawal from lakes, ocean, rivers, dams without interruption. It is produced in accordance with ISO 9001, ISO 14001, OHSAS 18001 and provides maximum efficiency by customized designs and engineered systems unique to the certain environment.

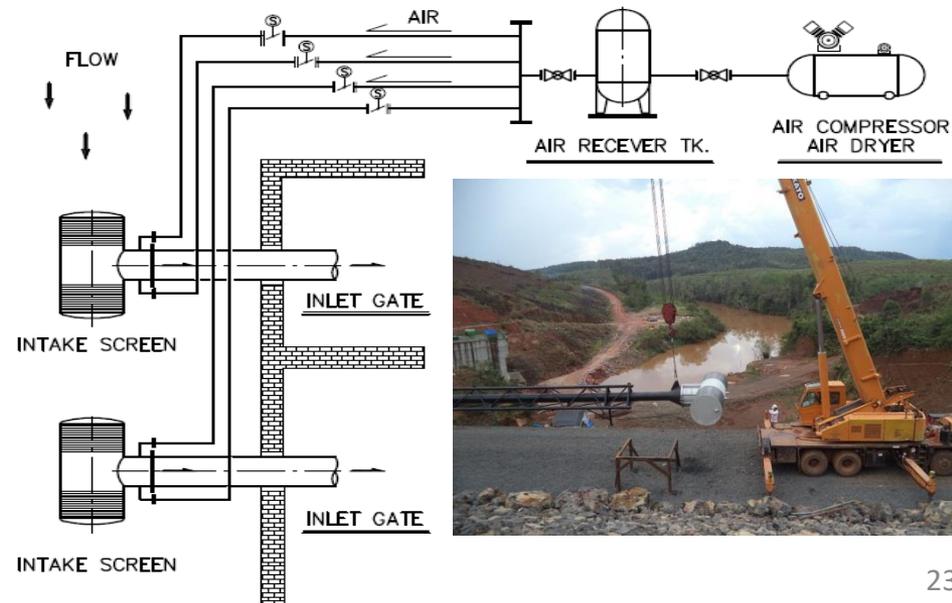
We not only provide Intake screens, but also packaged systems equipped with air backwashing system which can prevent blockage from such sludge, debris, marine plants and keep clean on the surface by using automatic backwashing process.

• Applicable Industry

- Industrial Water Treatment
- Desalination Plant
- LNG/LPG Plant
- Power Plant
- Paper & Pulp



| Model No. | Diameter(mm) | Length(mm) | Weight(kg) |
|-----------|--------------|------------|------------|
| TIS-300 | 305 | 1143 | 145 |
| TIS-400 | 406 | 1397 | 240 |
| TIS-450 | 457 | 1575 | 355 |
| TIS-500 | 508 | 1676 | 530 |
| TIS-600 | 610 | 2032 | 675 |
| TIS-700 | 711 | 2286 | 875 |
| TIS-750 | 762 | 2489 | 1250 |
| TIS-850 | 864 | 2692 | 1500 |
| TIS-950 | 965 | 2946 | 1800 |
| TIS-1000 | 1067 | 3810 | 2200 |
| TIS-1200 | 1219 | 4318 | 2800 |
| TIS-1350 | 1372 | 4826 | 3950 |
| TIS-1500 | 1524 | 5461 | 5400 |





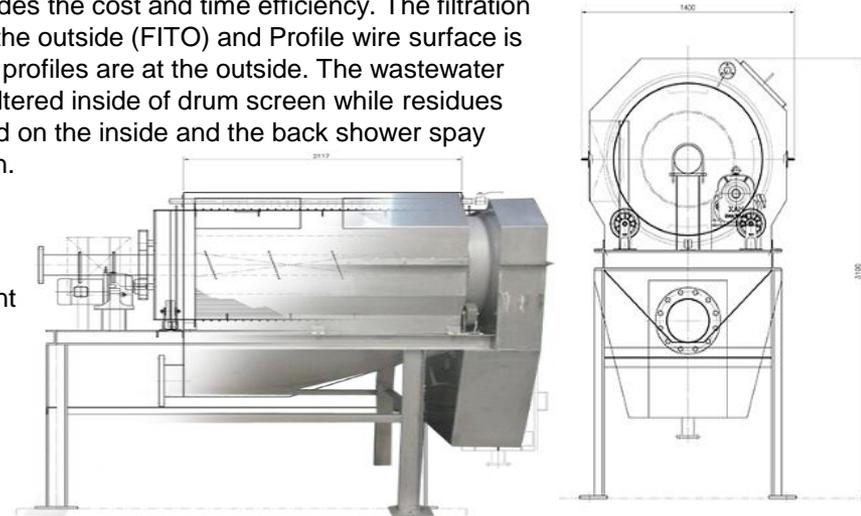
DRUM SCREEN

• **General Information**

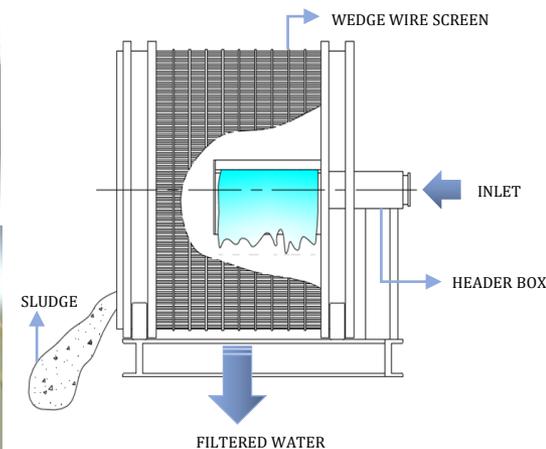
WILL S&P Drum Screen System is designed and engineered to keep the screens clean automatically with wash water supply while operating the machine without any interruption through which provides the cost and time efficiency. The filtration direction is from the inside towards the outside (FITO) and Profile wire surface is positioned at the inside and support profiles are at the outside. The wastewater flows in through inlet gate and it is filtered inside of drum screen while residues are excreted along the vane installed on the inside and the back shower spay operates automatically to keep clean.

• **Applicable Industry**

- Sewage Treatment Plant
- Membrane Bio Reactor Treatment
- Food Industry
- Paper and Pulp
- Meat Industry
- Agriculture Industry
- Breweries
- Laundries



| Model No. | I.D (mm) | Length (mm) | Slot Opening (mm) | Power (KW) | Speed (Rpm) | Inlet (mm) | Outlet (mm) |
|-----------|----------|-------------|-------------------|------------|-------------|------------|-------------|
| HDS-650 | 650 | 1400 | 0.2 ~ 10 | 0.75 | 15 | 80A | 100A |
| HDS-750 | 750 | 1400 | 0.2 ~ 10 | 0.75 | 13 | 100A | 125A |
| HDS-1000 | 1000 | 1500 | 0.2 ~ 10 | 2.2 | 10 | 125A | 200A |
| HDS-1200 | 1200 | 1500 | 0.2 ~ 10 | 2.2 | 8 | 125A | 200A |
| HDS-1500 | 1500 | 2500 | 0.2 ~ 10 | 3.7 | 6 | 150A | 200A |
| HDS-1800 | 1800 | 3500 | 0.2 ~ 10 | 3.7 | 5 | 150A | 200A |



HYDRO SIEVE SCREEN



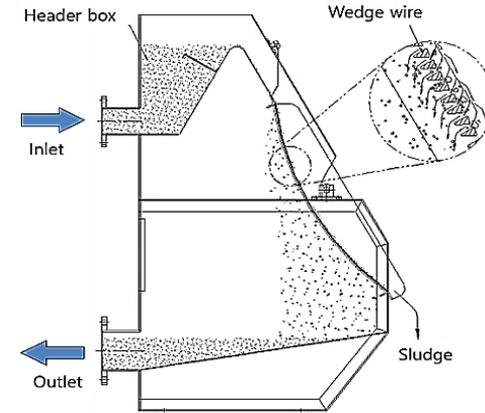
HYDRO SIEVE SCREEN

• **General Information**

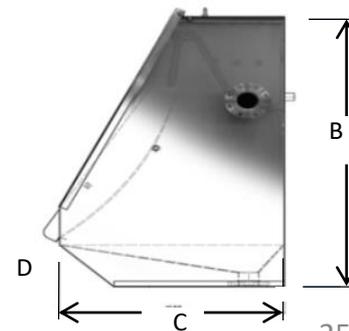
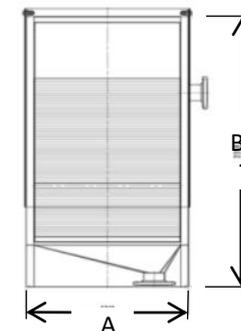
WILL S&P Hydro Sieve Screen System represents one of our automatic cleaning systems and it is normally installed on the pre-cleaning process. Fluids with sludge go through inlet gate and cleaned water comes out from outlet gate while sludge is filtered through screens and falls into scum box or screw conveyor. The remaining debris and sludge on the screen surface are automatically cleaned by auto brush system which keeps the screens clean. Our Profile wedge wire screen for sieve screen system is specially manufactured at a slight tilt in order to filter fluids more efficiently and to give highest open area.

• **Applicable Industry**

- Petrochemical
- Water and wastewater treatment
- Paper and Pulp
- Agriculture



| Model No. | INLET | OUTLET | A | B | C | D |
|-----------|-------|--------|------|------|------|-----|
| HSS-12W | 50A | 100A | 380 | 1550 | 960 | 400 |
| HSS-18W | 50A | 100A | 530 | 1550 | 960 | 470 |
| HSS-24W | 50A | 100A | 680 | 1500 | 960 | 470 |
| HSS-36W | 80A | 125A | 980 | 1500 | 960 | 470 |
| HSS-48W | 100A | 150A | 1300 | 1850 | 1170 | 530 |
| HSS-60W | 100A | 150A | 1600 | 1850 | 1170 | 530 |
| HSS-72W | 150A | 200A | 1928 | 1850 | 1170 | 530 |





• General Information

To fully satisfy diverse customer needs, Will Screen & Plant has continuously expended its business field not only into screens but also process filters and equipment. As a engineering manufacturer, we can give customer an idea and solutions based on our experiences and know-hows. Will Screen & Plant has also established its institute of technology and gained ISO 9001, ISO 14001, ISO 45001 to become a global leading manufacturer in the filtration industry

• Applicable Products

- Spool Fabrication
- Pressure Vessels
- Mechanical Equipment Fabrication

• Management

Will Screen & Plant conducts the fabrication under strict management system and provides the products with best quality to satisfy customers
The main tasks are as follows

- Fabrication Drawing
- Technical Review
- Safety Guideline
- Material Purchase & Stock Management
- Construction Equipment & Facility Management
- Manpower Control
- Test & Installation

PRESSURE VESSEL & STEEL FABRICATION

