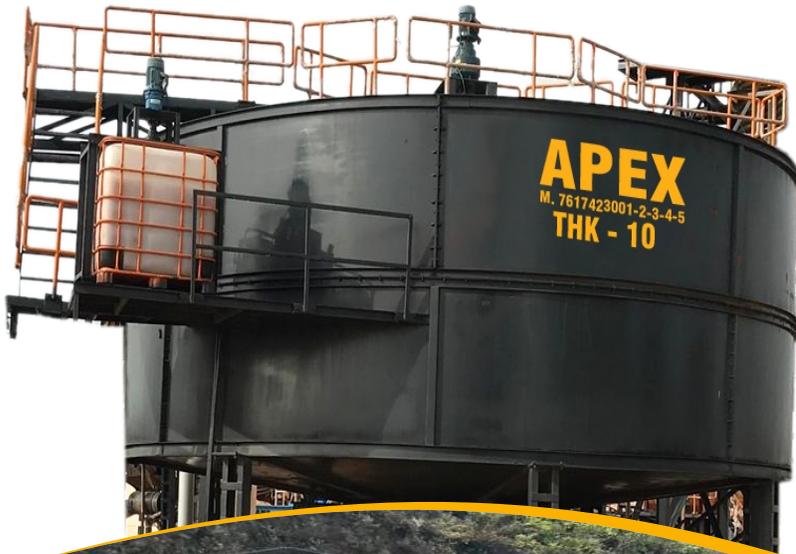




APEX INDUSTRIES

SAND WASHING SYSTEM

Our Priority Customer Satisfaction



- ◆ COMPACT SAND WASHING PLANT
- ◆ WATER THICKENER
- ◆ SAND CLASSIFIER
- ◆ ROTOPECTOR CRUSHER
- ◆ ROLL CRUSHER
- ◆ CONVEYORS
- ◆ VIBRO FEEDERS
- ◆ VIBRATING SCREENS
- ◆ JAW CRUSHER SINGLE DOUBLE TOGGLE



ABOUT APEX INDUSTRIES.

Apex is always known for its **PRODUCTS, QUALITY & SERVICE**, Apex has a long experience of manufacturing units since 1990 in PAPER, CRUSHING & SCREENING INDUSTRIES.

Crushing and screening process are integral to mining and construction industries. In both the sectors they need fast and efficient working. In Crushing and screening operations quality and production are the key features for development of industries, this is the prime reason customer select APEX INDUSTRIES.

BENEFITS OF APEX THICKENER: -

MAXIMUM WATER RECYCLING IN MINIMUM SPACE.

ELIMINATE SETTLING POUNDS.

Settling pounds used to recycle water often encounter significant operational and logistical challenges. Settling pounds are know to be the source of significant revenue losses, not only due to high maintenance cost but also due to non-technical process. The loss of production, time & non-technical process is the key consideration in design of APEX THICKENER.

MAXIMISE THE EFFICIENCY OF PROCESSING PLANT.

The APEX thickener is a single, compact, and user/ecofriendly unit that can be applied to high and low tonnages across many markets. It is a highly efficient water management solution that minimizes costly fresh water consumption by ensuring up to 90%* of the process water recycled for immediate recirculation.

RETURN ON INVESTMENT.

Return on investment with APEX Thickener is typically achieved in just ten to twelve months.

By recycling up to 90%* of process water the requirement of pounds is greatly reduced. Delivering competitive advantages to its Customers APEX product accelerates return on investment by: -

- Maximizing production efficiency.
- Reducing water and energy costs.
- Eco friendly.
- Valuable use of land for working. (as its compact unit)

WORKING PROCESS OF APEX THICKENER.

After feed material has been washed and classified, process water with waste is sent to APEX thickener tank, here a small amount of chemical treatment is added to the water via automatic dosing station which forces the fine particles to settle on the bottom of thickener tank. Which automatically moved in the bottom cone of the tank through rack knives and drain simultaneously through regular interval. The clean water comes on the on the top and overflows the weir and stored in RCC tanks (client scope) for re-circulation in the plant.

The result is highly efficient and only 10% of top/fresh water supply is used in processing plant.



WATER CLARITY

Up to 90%* of process water recycled for immediate re-use in the system

APEX THICKENER

THK - 10

SALIENT FEATURES

- 1** Apex thickener can be used for removal of minerals or fines from the process water.
- 2** Waste water from APEX SWP is delivered to the center of the thickener through velocity tank to reduce force and allow maximum time to settle the mud.
- 3** Gravity- based settling of mud/sludge in the center of the tank through rake mechanism.
- 4** Ensure quick and safe access to integrated cone section minimizing the time required for maintenance and maximizing equipment availability.
- 5** Electrically driven agitator allows for easy maintenance as well as reduce inventory for parts.
- 6** Up to 90%* of process water recycled for immediate re-use in the plant.
- 7** Valuable use of land for processing.
(As it saves the land space for other work)



	UNIT	APEX THK-6	APEX THK-8	APEX THK-10	APEX THK-12
Diameter of Tank	m	6*	8*	10*	12*
Side Wall depth of tank	m	2*	2.5	3	3.5
Side wall plate	mm	6	6	6	6
Base plate	mm	6	8	8	10
Volume of Tank	m ³	55	180	230	400
Rake ARM Lift	mm inch	—	—	300 (11.8)	300 (11.8)
Rake Speed	rpm	0.13-0.3	0.13-0.3	0.13-0.3	0.13-0.3
Total power*	H. P	10	10	15	16.5
Motor	-	ABB	ABB	ABB	ABB

Details may vary based on application

APEX SAND WASH

SALIENT FEATURES

- 1 Static sand recovery unit on one chassis
- 2 Centrifugal slurry pump.
- 3 Hydro cyclone.
- 4 Collection tank.
- 5 Dewatering Screen.
- 6 Produces one grade of sand.
- 7 Heavy duty applications.
- 8 Low operating cost.
- 9 High quality and reliability



MODELS & SPECIFICATIONS

SPECIFICATION	SWP-50	SWP-75	SWP-100	SWP-150	SWP-200	SWP-250
CAPACITY*	35-50 TPH	50-75 TPH	75-100TPH	125-150TPH	175-200 TPH	225-250 TPH
PUMP DETAIL	4"/3"	6"/4"	6"/4"	8"/6"	6"/4" X2NOS*	8"/6" X2NOS*
PUMP FLOW RATE	98m ³	134m ³	134m ³	170m ³	134m ³	170m ³
MOTOR	20HP	25HP	40HP	75HP	40HP X 2NOS	60HP X 2NOS
HYDROCYCONE	325MM	400MM	500MM	400mmX2nos	500mmX2nos	500mmX2nos
SCREEN SIZE	900X2400	1200X2400	1200X2700	1500X2700	1650X3000	1800X3000
V.MOTOR	2X2HP	2X3HP	2X5HP	2X5HP	2X7.5HP	2X7.5HP

Details may vary based on application

WORKING PROCESS OF APEX SAND WASH PLANT.

The 4.5mm slurry will be fed (from 1st screw classifier) to the sump of the Sand Wash Plant. with appropriate 70% amount of water for easy sucking of pump, which will be pumped to the hydro cyclone attached with the Sand Wash Plant. The underflow from the cyclone is screened on a dewatering screen from where it is discharged as a clean, de-watered washed sand product on to a conveyor (client scope)

The overflow from the hydro-cyclone will leave the Sand Wash Plant as a waste, and will be disposed to water management process.

CENTRIFUGAL PUMP

RUBBERISED/ HI-CHROME PUMP.

PUMP CAPACITY 60-250 Meter cube.

ABRASION RASISTANCE RUBBER/HI-CHROME LINER.

LOW MAINTANCE COST. (liner changeable)

EXCELLENT SERVICEBILITY



Polyurethane Coated Hydrocyclone



DEWATERING SCREEN

Dewatering through centrifugal force.

Polyurethane screen mates are used in dewatering screen.

Side protection P.P liners.

Vibratory motors of 950-1500 rpm

Screen Aperture from 300-2000 micron.

Rubber screen mounts for smoother vibration.





INTEGRATED WASHING PLANT

SALIENT FEATURES

-  Mini Sand High Production Plant With Re-cycle Water Unit.
-  Maximizing Production Efficiency.
-  Combo Unit For Minimizing The Loss Of Valuable Fines.
-  Reducing the water and energy cost.
-  Eco friendly.

MODELS & SPECIFICATIONS

SPECIFICATION	SWAT-60	SWAT-80	SWAT-100	SWAT-120
SWP MODEL*	SWP-70	SWP-70/100	SWP-100/150	SWP-150/200
INPUT FLOW rate	120m ³	200m ³	300m ³	400m ³
SLUDGE DISCHARGE	6"Pneumatic	8"Pneumatic	8"Pneumatic	8"Pneumatic
ELECTRIC LOAD*	32K.W*	48K.W*	74K.W*	115K.W*
DIAMETER	6MTR	8MTR	10MTR	12MTR

Details may vary based on application

APEX

VIBRATING SCREEN



SALIENT FEATURES

-  High screening capacity and excellent performance.
-  Circular motion modular vibrators with two bearings per vibrator, interconnected by cardan shaft.*
-  Unique angle of the circular motion AVS are able to achieve higher productivity.
-  Modular design is available either as 1, 2, 3 or 4 deck and has excellent segregation to suit the aggregate and mining industries requirements.
-  Stroke adjustment through counter weight. Grease lubrication system ensures easy and low maintenance.

MODELS & SPECIFICATIONS

SPECIFICATION	UNIT	AVS-1224/1524	AVS-1554/1854	AVS-1860/1960	AVS-1963
SWP MODEL*	sq.m	2.88/3.6	8.1/9.8	10.8/11.7	12.3
INPUT FLOW rate	TPH	100*/150*	300*/375*	450*/575*	600*
SLUDGE DISCHARGE	-	2/3	2/3/4	2/3/4	2/3/4
ELECTRIC LOAD*	-	14°	14°	16/18°	18°
DIAMETER	hp	7.5	20	25	25/30*

Details may vary based on application



SUCCESSFUL RUNNING WASHING PLANTS

- 📍 JAMMU & KASHMIR
- 📍 HIMACHAL PRADESH
- 📍 PUNJAB
- 📍 UTTARAKHAND
- 📍 UTTAR PRADESH
- 📍 MADHYA PRADESH
- 📍 RAJASTHAN
- 📍 ODISHA

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