

SAND WASHING SYSTEMS

“We understand the **NEED**
of our valued customer”



**Complete Solution in Screening,
Washing & Water Re-Circulation**

STARKE MINERALS strongly believe in strong relations with our customers by providing competence, quality and reliability in our products and services. We have a product and solutions for your needs. Our strong base is our long experience, in depth knowledge of engineering, products know how. Our CADD capabilities strengthen our skills. We are with In-house manufacturing facilities, strong supplier backup, strong design and project management & services ensure our commitment towards the customers.

“STARKE MINERALS” Washing Plants

HIGH-RATE THICKENERS

High Rate Thickeners

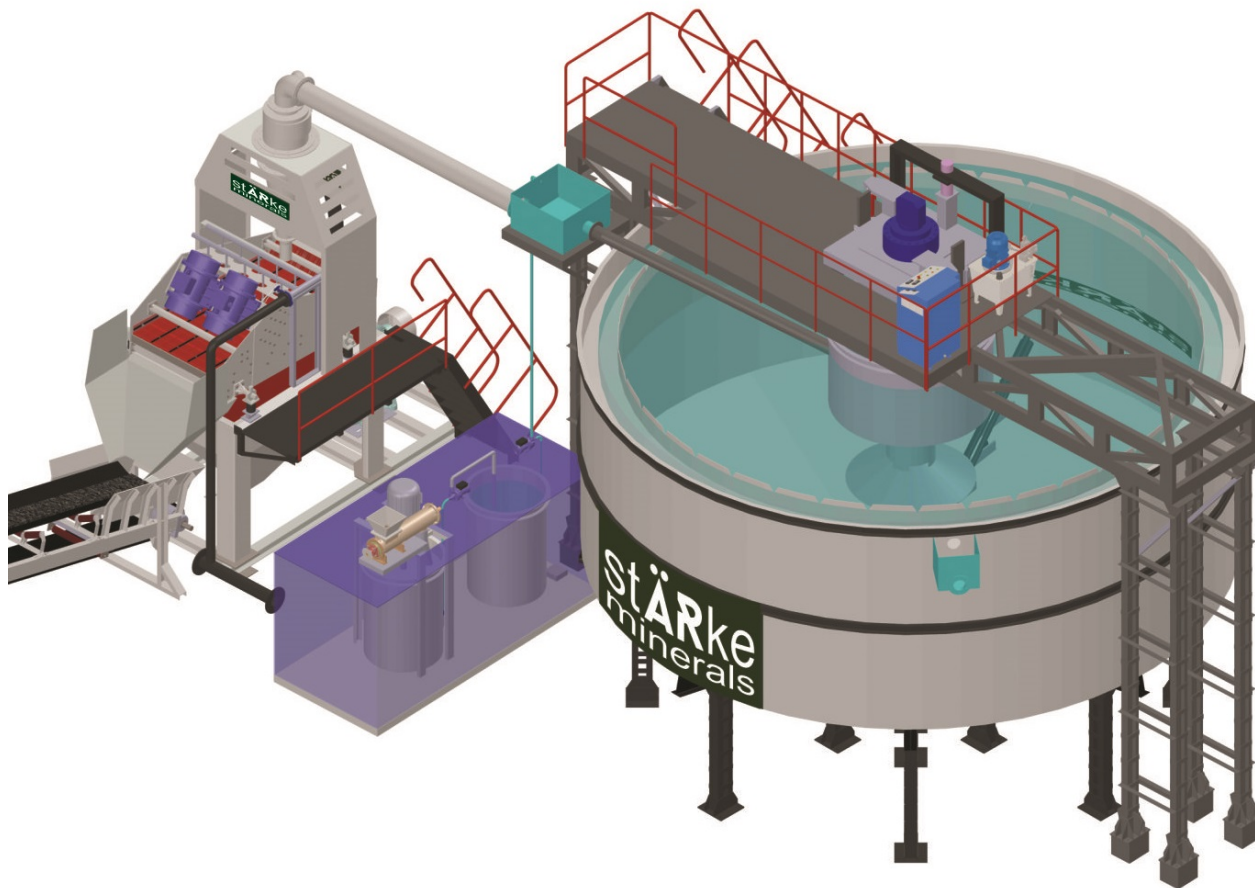
STARKE High-Rate Thickeners recover immediately reusable process water for mineral and aggregate producers. Thickeners are useful in saving of water, land and environment. Thickeners provide immediately reusable process water and recover approximately upto 95 percent of the water from an effluent feed. This high level of water recovery keeps water consumption at sustainable levels, as well as drastically reducing the slurry volume reporting to waste ponds.

STARKE High Rate Thickeners separate liquids from solids using hindered settling. Rotating rake arms collect settled sludge and move it toward the centre discharge cone. They use minimal amounts of polymers/chemicals to drop the solids, making it environmental friendly.

STARKE High-Rate Thickeners can be installed easily into an existing plant. Control systems take care of most of the operation; however, we can train operators in the preparation and use of flocculants, as well as general Thickener operations.

Starke Thickeners are controlled automatically by a PLC system and manually as well. We provide electromechanical or hydraulic drives for central raking system. However, hydraulic drives provide accurate sense of torque on the rakes. At high torque conditions, a rake lift will activate to draw the rakes up from the mud. The system then steps the rake down, monitoring torque on the way.





Features / Benefits

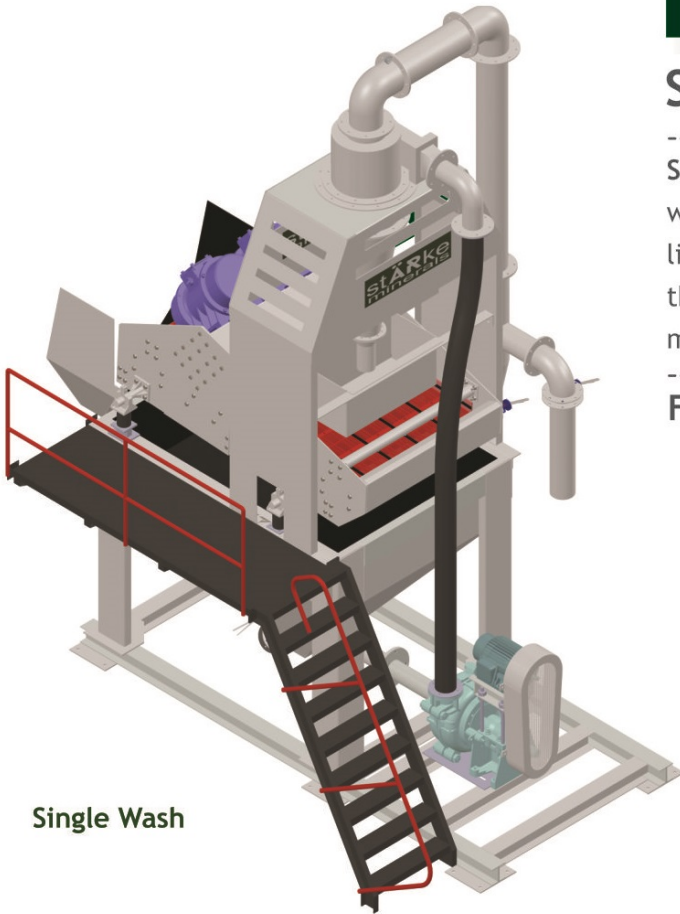
- Immediate recovery of re-usable water.
- Low demand of make-up water.
- High reduction in slurry volume that goes to waste ponds.
- Less power requirement for pumping fresh water.
- Small Footprints.
- Tanks are supplied as welded construction; however, bolted construction can also be provided.
- Hydraulic drive to power rakes and operate the rake lift.
- Accurate rake torque monitoring.

Models & Specifications

STARKE HRT				
SPECIFICATIONS	SMT60	SMT80	SMT100	SMT120
Maximum Feed Rate	150 m ³ /hr	250m ³ /hr	350m ³ /hr	450m ³ /hr
Sludge Flow Rate	7.5 T/hr	12.5 T/hr	17.5 T/hr	22.5T/hr
Sludge Pump	3/2"	3/2"	3/2"	4/3"
Power Required for Sludge Pump	9.3KW	9.3KW	9.3KW	5KW
Power Required for Raking	2.2Kw	2.2Kw	3.7Kw	3.7Kw
Tank Diameter	6 m	8 m	10 m	12 m

Washers

Single Wash /Dual Wash



Single Wash

STARKE SMwash:- Our special purpose designed with single / multiple hydrocyclones, rubber lined pumps, dewatering screens, pumps serve the purpose of removing 75micron down material from the sand.

FEATURES / BENEFITS

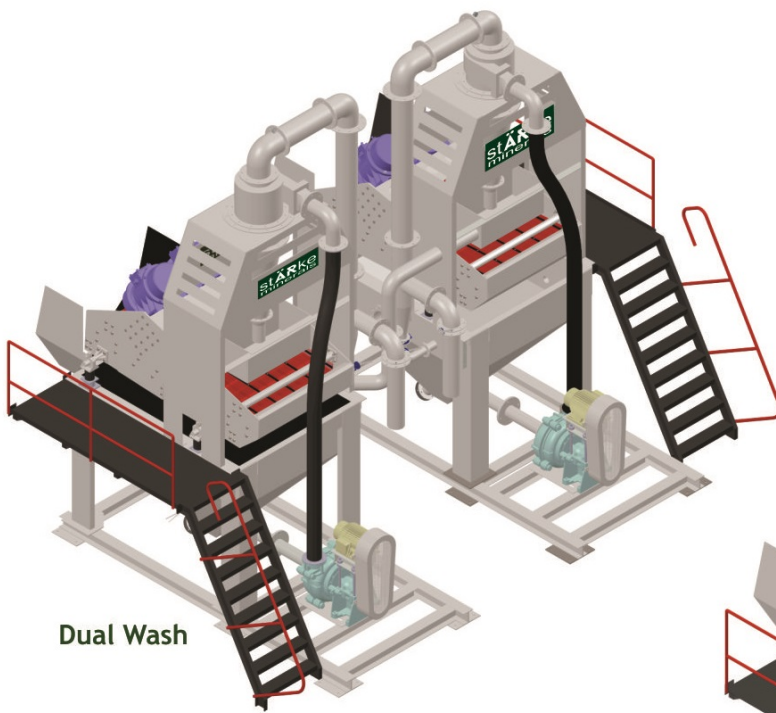
- Simple and compact design.
- Rugged construction.
- Heavy duty application.
- Durable and long life.
- High quality and reliability.
- Minimum maintenance.
- Low operating cost.
- Proven performance.
- Available in single product & double product options (p-Sand & M-Sand can be taken simultaneously).
- Available with single & multiple hydrocyclones.

MODELS & SPECIFICATIONS

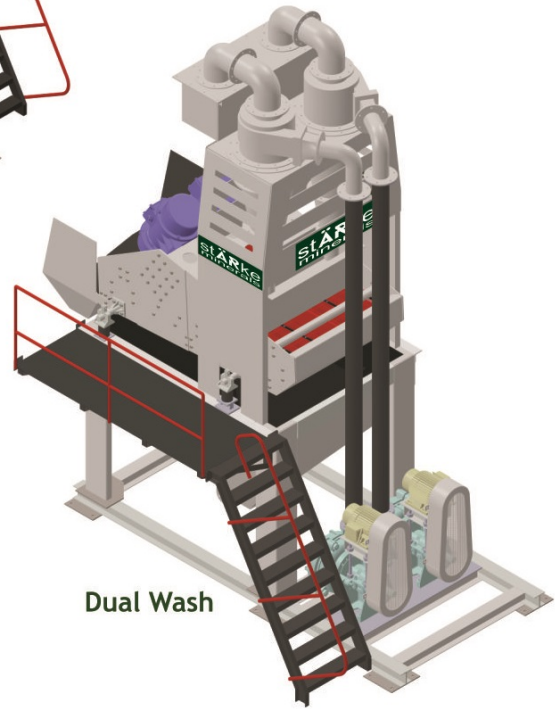
SINGLE WASH			
SPECIFICATION	SMWash50	SMWash75	SMWash100
Capacity	50TPH	75TPH	100TPH
Hydrocyclone Size	400mm	500mm	600mm
Slurry Pump Size	4" / 3"	6" / 4"	8" / 6"
Pump Flow Rate	100m ³ /hr	130m ³ /hr	170m ³ /hrPump
Power	20HP	40HP	50HP
Dewatering Screen Size	2400x1500	2400x1800	3600x1800
Dewatering Screen Power	2x5HP	2x5HP	2x7.5H



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Dual Wash



Dual Wash

MODELS & SPECIFICATIONS

DUAL WASH			
SPECIFICATION	SMWash50-Duo	SMWash75-Duo	SMWash100-Duo
Capacity	50TPH	75TPH	100TPH
Hydrocyclone Size	2x400mm	2x500mm	2x600mm
Slurry Pump Size	4" / 3"	6" / 4"	8" / 6"
Pump Flow Rate	200m3 /hr	260m3/hr	340m3/hrPump
Power	2x20HP	2x40HP	2x50HP
Dewatering Screen Size	2400x1800	3000x1800	3600x1800
Dewatering Screen Power	2x5HP	2x5HP	2x7.5HP



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STARKE Range of Equipment

STARKE Rinsing Screens

We offer wide range of washing screens.

Application : These wash screen can be used in Gravel / RBM washing, Quarry dust / sand, Recycled material, Iron Ore and where the washing of material is required.

FEATURES / BENEFITS

- Robust Designed
- Option of Rubber lined body available
- Fitted with special designed water jets at accurate direction
- Option of PU mat and Wire mesh available

STARKE Vibrating Screens

Our vibrating screens are designed for heavy-duty, long life, minimum maintenance and low operating costs. We offer a full range of high efficiency inclined and horizontal screens with circular and elliptical motion to suit all mineral and crushed stone sizing applications.

Size	1550x4270 mm - 2550x6100 mm
Decks	2 Deck, 3 Deck & 4 Decks
Motor Power	15 - 37kW

- 2, 3 & 4 deck configurations
- Huck-bolt construction for rigidity and long life
- Heavily built single shaft and double shaft vibrating mechanism with synchronized gears
- Circular & Elliptical screening motion
- Stroke amplitude and angle adjustment
- Double roll spherical roller self-aligning bearings
- Oil-bath lubrication for trouble free operation
- Adaptable for wire-mesh / rubber / polyurethane deck panels
- Low headroom for portable and stationary plants

Models

- SMVS4215 - 2D, 3D & 4D
- SMVS4818 - 2D, 3D & 4D



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STARKE Spiral Classifiers

These slow-rotating screws are the ideal machines for fine material separation in mineral beneficiation plants. The washing, classification and dewatering operations are all combined in one machine for removal of unwanted fines and recovery of useful minerals and sands. We offer a wide range of sizes for varied classification requirements.

Features / Benefits

- Simple and compact design
- Rugged construction
- Heavy duty application
- Durable and long life
- High quality and reliability
- Minimum maintenance
- Low operating cost
- Proven performance

Models

- SMSC600
- SMSC900
- SMSC1200
- SMSC1500

Specifications of the Products

Screw Size	0600x5000L - 1500x9000L
Classifying Size	75 - 300pm
Rake-up Capacity	20 - 304 TPH
Pool Area	2.6 - 25 Sqm
Motor Power	3.7 - 22kW

STARKE Twin Shaft Grizzly Feeders

Grizzly Feeders provide a continuous feed rate under a variety of loading and material conditions. Grizzly Feeders are designed to take heavy shock loads from trucks, shovels and loaders. This type of feeder can be used in quarries, recycling, industrial processing, mining, sand and gravel operations, and a wide range of mineral processing industries. Grizzly bars can be arranged as a single, double or even triple row dependent upon the amount of scalping required. Grizzly Feeders act as a coarse material separator while being designed to withstand the high impact forces found in aggregate primary dump loads, with a flat reinforced load area followed by sloping grizzly bar sets.

Features / Benefits

- Robust construction
- Heavy duty application
- Compact and modular design
- Massive vibrating force
- Excellent feeding and scalping
- Minimal and easy maintenance
- Impeccable quality
- High reliability and long life
- Proven performance

Models

- SMG830
- SMG1036
- SMG1240
- SMG1545

Specifications of the Products

Width	800 - 1500mm
Feed Size	Upto 1200mm
Length	3000 - 6000mm
Operating Angle	0 - 10 Deg
Capacity	Upto 800 TPH
Motor Power	9.3kW - 45kW



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Complete Solution in Screening, Washing & Water Re-Circulation



Strength to your Business
An ISO 9001 : 2015 CERTIFIED ENTERPRISE

STAY CONNECTED WITH US:



STARKE MINERALS

PLOT NO.10,11, JAJRU INDUSTRIAL AREA, BALLABGARH, FARIDABAD-121004



+91 8130788555
+91 9667798210
+0129 - 2307013



starkeindia@gmail.com



www.starkeindia.com