



SOUTHERN CROSS[®] SX SOLIDS PUMPS

SX SOLIDS PUMPS

PNEUMATIC CONVEYING UNITS

Air operated solids and slurry pumps. Ultra tough pumping units capable of transferring any flowable material across a wide range of agricultural, industrial, municipal, mining, oil and gas applications.

SX SOLIDS PUMPS

Southern Cross SX Solids Pumps are Pneumatic conveying units which are capable of transferring up to 60m³/hour (264USGPM) of any flowable material with solids sizes up to 80% of the diameter of inlet.

SX Solids Pumps are not a competitor for conventional pumps, they come into their own when traditional pumps fail due to the high solids nature of the material being conveyed. SX Solids Pumps are self priming and are fully sealed with zero discharge, allowing for the safe transfer of hazardous materials for environmental compliance.

SX Solids Pumps are 100% air operated, relying on compressed air to create a vacuum and high airflow allowing the recovery of material up to 25 metres (82ft) and discharge it more than 1000 metres (3280ft) horizontally.

With no rotating parts and no moving parts in contact with the pumped material, they are not susceptible to clogging and wear that occurs in centrifugal and submersible pumps. They do not suffer from cavitation and can be run dry indefinitely with no overheating or damage.

COMPACT, LIGHTWEIGHT & MOBILE

SX Solids Pumps are designed to be easily transported and quickly deployed where and when required. Units are lightweight and fitted with either wheels or skid mounted for simple on-site mobility and deployment.

Units are supplied with protective covers for operating controls and valves. They can also be fitted with roll cages and enclosures to provide additional protection and durability.

SIMPLE OPERATION

With easy access to air supply and suction and discharge pipelines, SX Solids Pump units can be deployed in less than 10 minutes.

Deployment is a simple process involving the connection of suction and discharge pipes (camlock, victaulic or BSP), air hoses and then turning on the air supply.

Once running, units are controlled by simply varying the suction and discharge timers to suit the material being conveyed, the distance being recovered from and the transfer distance. This allows for fully automatic operation. Alternatively, units can be manually operated using a switch to control loading and discharge times.

INTRINSICALLY SAFE

SX Solids Pumps require no electricity supply to operate and have been designed to safely operate in hazardous environments.

SOUTHERN CROSS SX60-V "GUZZLA"



SOUTHERN CROSS SX110-V "GLUTT'N"





There are no rotating parts and all moving parts covered to prevent entanglement and reduce the risk of operator injury.

MAINTENANCE AND SUPPORT

With minimal moving parts and no electricity, troubleshooting is a quick and simple process. Parts are easily replaced and fitted using readily available tools.

Pentair Southern Cross provides global support for all SX Solids Pumps. Our expert operators can provide on-site demonstrations and training for new users and assist with product selection and troubleshooting.

APPLICATIONS

SX Solids Pumps have been utilised all over the world to provide effective solutions for a wide range of product transfer problems including:

- Coal and other mining slurries
- Thickener sludge
- Sump, shaft and pipeline cleaning
- Tank and drain cleaning
- Tailings and ash pond cleaning
- Oil spill capture and transfer
- Hazardous waste recovery
- Drilling mud and cuttings
- Agricultural product and waste
- Dam desilting
- Bentonite, sand and cement powder
- Effluent and processing waste
- Pulp and paper mill waste
- Tunnelling and pneumatic excavation
- Barge, ballast tank and ship cleaning
- Wash plant and under belt cleaning

SX Solids Pumps are capable of pumping any flowable material including liquids, liquors, slurries, mud, slimes, sand, gravel, powders and many more. Where other pumps cannot operate, SX Solids Pumps provide a simple, safe and versatile solution.

PNEUMATIC CONVEYING

MATERIAL RECOVERY AND TRANSFER



PURE VACUUM PUMPING

SX Solids Pumps have the capability of recovering material by two modes the first being 'pure vacuum' while the second is 'air conveying'.

As a general rule pure vacuum would be used for removing sludge from beneath liquid or for rapid liquid or slurry loading within close proximity to the machine. In this mode, the vacuum tube is totally submersed in the liquid and only material (no air) transports through the line.

The maximum vertical suction lift from the machine to the liquid surface cannot exceed 9.2 metres (29.6 feet) at sea level assuming water is the liquid. Horizontal suction distances would be greater. For materials of a higher density than water, these figures must be reduced accordingly. This mode

is a conventional pumping technique with the material being displaced by negative pressure.

However the SX Solids Pumps can transcend conventional pumping techniques by pneumatically conveying materials.

PNEUMATIC CONVEYING

Pneumatic conveying is a method of handling materials by utilising high velocity airflow with a pipeline. This requires sufficient air velocity to pass the material being picked up to capture it and convey it through the vacuum tube to the machine.

The air velocity is kept up by not fully submersing the nozzle or by allowing air to the pick-up point via a snorkel tube attached to the nozzle.

The advantages of this technique are:

- Suction lifts up to 25 metres (82 feet)+ vertically can be achieved
- Materials can be liquid dry or damp
- Particle sizes of up to 80% of the suction hose diameter can be conveyed
- Horizontal suction distances in excess of 60 metres (197 feet) can be achieved
- Fibrous, waxy and heavy sludge can be handled
- Powders and solids can be handled as well as wet materials

There are also applications where a vacuum fluidizing tube should be used which combines the benefits of pure vacuum and pneumatic conveyance when removal of material from beneath liquids is required where the distance exceeds the limitations of pure vacuum.

All SX Solids Pumps utilize high airflow and vacuum (up to 85kPa vacuum at 700kPa air pressure) to ensure high performance.

The SX Solids Pumps are designed to convey recovered material under pressure through a pipeline or into a collection vessel. Alternatively, deadheads and cuttings carousels are available which absorb and dissipate the discharge pressure and allow the delivery of material under gravity to a confined location such as a conveyor belt or cuttings skip.

Two modes of positive pressure discharge are used in SX Solids Pumps; dense phase and lean phase pneumatic conveying. The later can achieve vertical heads in excess of 35 metres (115ft) and horizontal discharge distances of over 1000 metres (3280ft).

The absence of any electrical supply in SX Solids Pumps makes them useful in restricted or potentially hazardous areas.



SX280-V



SX60

PORTABLE SLURRY PUMP



SX60 PORTABLE SLURRY PUMP

The SX60 Guzzla Portable Slurry Pump is designed to offer the operator a one man vacuum recovery, pressure discharge unit that can recover and transfer almost any flowable material.

The SX60 Guzzla Portable Slurry Pump is 100% air powered and operated and creates up to 25" Hg (85kPa) of vacuum using 150cfm at 85psi+.

The SX60 Guzzla Portable Slurry Pump is employed around the world moving mining slimes in Mexico and filter Media in South Africa, OBM in the UK and piggery waste in the USA.

FEATURES

- 100% compressed air operation
- Intrinsically safe
- Fully automatic
- Versatile
- No internal moving components
- High vacuum and high airflow
- Recovers material from up to 50 metres (164ft)
- Delivers up to 500 metres (1640ft)
- Pumps up to 12 m³/hr (53USGPM)

APPLICATIONS

- Sump cleaning
- Transfer of mining slurries and slimes
- Drain desilting
- Effluent transfer
- Drill cuttings and OBM transfer
- Hazardous waste transfer
- Pneumatic excavation
- Agricultural product and waste transfer

TECHNICAL DATA

- Height 80 cm (32")
- Width 70 cm (28")
- Length 150 cm (59")
- Weight 198 kg (484lb)
- Air consumption 150cfm at 85psi+
- Up to 25" Hg+ (85kPa) vacuum
- Suction 75 mm (3")
- Discharge 75 mm (3")
- Handles solids to 50 mm (2")
- Also available in 316 stainless steel

SX60-V

PNEUMATIC SLURRY PUMP



SX60-V PNEUMATIC SLURRY PUMP

The SX60-V Guzzla Portable Solids Pump is a one man vacuum loading, pressure discharge pump capable of recovering and transferring up to 10m³/hr (44USGPM) of almost any flowable material.

The SX60-V Guzzla Portable Solids Pump generates up to 25" Hg+ of vacuum combined with high airflow which allows the unit to transfer materials ranging from mining slurries and oil sludge through to cementitious powders and grains.

The SX60-V Guzzla Portable Solids Pump is employed worldwide servicing farms, mines, drill rigs, construction sites, process and power plants and many more.

FEATURES

- 100% compressed air operation
- Intrinsically safe
- Versatile
- No internal moving components
- Fully automatic
- High vacuum and high airflow
- Delivers up to 500 metres (1640 feet)
- High solids content (80%+) transfer

APPLICATIONS

- Spillage recovery and transfer
- Sump cleaning and desilting
- Tank bottoms and sludge extraction
- Pneumatic excavation and dewatering
- OBM transfer and pit cleaning
- Bentonite, sand, and cement powders transfer

TECHNICAL DATA

- Height 110 cm (44")
- Width 70 cm (28")
- Length 90 cm (36")
- Weight 198 kg (484lb)
- Air consumption 150cfm at 85psi+
- Up to 25" Hg+ (85kPa) vacuum
- Suction inlet 75 mm (3")
- Discharge outlet 75 mm (3")
- Handles solids to 50 mm (2")
- Also available in 316 stainless steel

SX110-V

MOBILE SLUDGE PUMP



SX110-V MOBILE SLUDGE PUMP

The SX110-V Glutt'n Mobile Sludge Pump delivers over 25" Hg of vacuum whilst generating high inline convey velocities. The unit requires only 280cfm at 85psi+ and can transfer heavy sludge with a high solids content up to a rate of 18 m³/hr (79USGPM).

The SX110-V Glutt'n Mobile Sludge Pump is a vacuum loading pressure discharge batch system that can recover from up to 50 metres (164ft) and deliver in excess of 500 metres (1640ft) whilst remaining a one man or fully automatic operation.

The SX110-V's 100 mm (4") inlet and outlet along with its conical tank design make it a formidable tool for the removal of aggregate and mud slimes behind today's tunnel boring machines or continuous mining machines.

Employed worldwide in the offshore drilling industry the SX110-V Glutt'n Mobile Sludge Pump is ideal for the rapid recovery of large scale spills.

APPLICATIONS

- Thickener de-sludge
- Tunneling & TBM applications
- Sump and shaft cleaning
- Tailings and ash pond cleaning
- Digester and pond cleaning
- Oil spill capture and transfer
- Hazardous waste recovery
- Drilling mud and cuttings transfer
- Transfer of mining slurries
- Agricultural product and waste transfer

FEATURES

- 100% compressed air operation
- Intrinsically safe
- Fully automatic
- High vacuum and high airflow
- Delivers over 500 metres
- Skid or wheel mounted
- Robust construction

TECHNICAL DATA

- Height 136 cm (54")
- Width 83 cm (33")
- Length 120 cm (47")
- Weight 245 kg (540lb)
- Air consumption 280cfm at 85psi+
- Up to 25" Hg (85kPa)+ vacuum
- Suction inlet 100 mm (4")
- Discharge outlet 100 mm (4")
- Handles solids to 70 mm (3")
- Also available in Class 3 carbon, 316 stainless steel or polyurethane coated tanks

SX280-V

HEAVY DUTY SOLIDS PUMP



SX280-V HEAVY DUTY SOLIDS PUMP

The SX280-V Heavy Duty Solids Pump is a high velocity, heavy duty solids pump, capable of capturing high density slurries via a strong 25" Hg vacuum combined with high velocity airflows.

The SX280-V Heavy Duty Solids Pump can handle solids to 80% of the employed hose diameter and will transfer up to 30 m³/hr (132USGPM) depending on the materials and distances involved.

The SX280-V Heavy Duty Solids Pump has no moving components that come in contact with the material being pumped and can pass rags, bolts and many other items that would render a standard impeller pump, inoperable.

FEATURES

- 100% compressed air operation
- Intrinsically safe
- Fixed or mobile
- Manual or fully automatic operation
- Robust construction and low wear characteristics
- High vacuum and high airflow
- Delivers up to 1000 metres (3280ft) horizontally and 35 metres (115ft) vertically
- High solids content (80%+) transfer

APPLICATIONS

- Capture and transfer of drill cuttings
- Sump cleaning and desilting
- Tank bottoms and sludge extraction
- Tailings transfer or dewatering
- OBM transfer and pit cleaning
- Bentonite, sand, and cement powders transfer

TECHNICAL DATA

- Height 157 cm (62")
- Width 140 cm (55")
- Length 136 cm (54")
- Weight 720 kg (1584lb)
- Air consumption 600cfm at 85psi+
- Up to 25" Hg+ (85kPa) vacuum
- Suction inlet 100 mm (4")
- Discharge outlet 100 mm (4")
- Handles solids to 75 mm (3")

SX300

MINING SLURRY PUMP



SX300 MINING SLURRY PUMP

The SX300 Mining Slurry Pump has been purpose built to transfer large volumes of high solids content mining slurries.

Designed for ease of transportation in underground operations the SX300 Mining Slurry Pump is capable of moving up to 30m³/hour (637USGPM) over distances in excess of 1000 metres (3280ft). The air powered jet pack generates over 25" Hg of vacuum from either 400 or 600cfm at 85psi+.

The SX300 Mining Slurry Pump can be fixed or portable and is a simple one man operation with both manual and full automatic function. With a proven track record it is ideal for the rapid capture and transfer of slurry containing aggregate up to 70mm (3") in diameter.

FEATURES

- 100% compressed air operation
- Intrinsically safe
- Manual or fully automatic operation
- High vacuum and high airflow
- Robust, compact and portable
- No internal workings
- Recovers up to 50 metres (164ft)
- Delivers in excess of 1000 metres (3280ft)

APPLICATIONS

- Large sump cleaning
- Shaft and tunnel clearing
- Tailings dam cleaning
- Conveyor belt spillage cleanup
- Digester cleaning
- Thickener muck out
- High volume waste transfer
- Cleanup of boot ends and transfer points
- Slops pond de-mucking
- Pulp and paper mill waste transfer

TECHNICAL DATA

- Height 91cm (36")
- Width 91cm (36")
- Length 167cm (66")
- Weight 465 kg (1023lb)
- Air consumption 400-600cfm @ 85psi+
- Up to 25" Hg (85kPa)+ vacuum
- Suction inlet 100 mm (4")
- Discharge outlet 100 mm (4")
- Handles solids to 70 mm (3")

SX300-V

INDUSTRIAL VACUUM PUMP



SX300-V INDUSTRIAL VACUUM PUMP

The SX300-V Industrial Vacuum Pump is a compact, robust, and efficient system capable of recovering material via 25"hg of vacuum and delivering the same over 1000 metres (3280ft).

The SX300-V industrial vacuum pump does this through 100mm (4") suction and discharge lines, transferring up to 30m³/hour (132USGPM) of oil sludge, mud slimes or coal slurry, whilst remaining a simple time saving one man operation.

The SX300-V is capable of transferring almost any flowable material and with reduced performances parameters, some non flowable products.

FEATURES

- Simple manual or automatic operation
- Fixed or mobile system
- 100% air powered and operated
- Low noise emission operation (-80dba at 1m)
- Intrinsically safe
- Exhaust Relief System
- High vacuum 25"hg+
- Compact, robust design
- 10+year tank working life

APPLICATIONS

- Thickener muck out
- Dam desilting
- Cleanup of under belt spillage
- Drive head or transfer point cleaning
- Sump and pit cleaning
- Effluent transfer, pond clearing
- Rapid spillage recovery
- High volume guck and slimes transfer
- Hazardous waste recovery/capture and transfer

TECHNICAL DATA

- Height 155cm (61")
- Width 100cm (39")
- Length 145cm (57")
- Weight 820kgs (1805lb)
- Air consumption 400cfm@85psi+ (optional 600cfm jet available)
- Suction inlet 100mm (4")
- Discharge outlet 100mm (4")
- Handles solids to 70mm (3")
- Fork skid mounted frame
- Also available in both 316 s/steel or Polyurethane coated

SX400

SOLIDS PUMP



SX400 SOLIDS PUMP

The SX400 Solids Pump was primarily designed for the mining industry. The pump is capable of recovering up to 40m³/hour (176USGPM) of various materials under vacuum, and delivering the same via 100mm (4") pipe some several hundred metres.

The SX400 Solids Pump can transfer mud, sludge and mining slurry along with heavy aqueous waste directly from the source to an array of destinations including skips, bulk tanks, further processing or return to belt if required.

Compact and with a relatively small footprint, when configured correctly the SX400 is capable of operating in an array of industries on a wide array of materials with a very high solids content suffering little or no wear.

FEATURES

- 100% air powered operation
- Intrinsically safe
- No internal workings
- Can be a fixed or mobile system
- Generates 25"hg vacuum using 600cfm@85psi+
- One man operation
- Optional top load/gravity feed
- 400, 600, 750 and 900cfm Jet Packs available

APPLICATIONS

- Slurry transfer
- Mud and tailings transfer
- Pit and sump cleaning
- Hazardous waste recovery
- Oil sludge, tank bottoms residue transfer
- Vacuum cleaning of Barge and Vessel bottoms
- Bulk tank transfer, load and unload
- Hazardous waste recovery and transfer

TECHNICAL DATA

- Height 158cm (62")
- Width 100cm (39")
- Length 186cm (73")
- Weight 1000kg (2205lb)
- Air consumption 600cfm@85psi+
- Suction inlet 100mm (4")
- Discharge outlet 100mm (4")
- Handles solids to 70mm (3")

SX700

E-VAC IN LINE VACUUM PUMP



SX700 E-VAC IN LINE VACUUM PUMP

The SX E-Vac In Line Vacuum Pump is designed as an in line system allowing the conversion of a standard pipeline into a fixed vacuum system.

The E-Vac can be fitted to a range of pipes including HDPE, steel or even flexible suction hose which offers considerable flexibility.

Operating on a variable range of air supplies the SX E-Vac In Line Vacuum Pump can consistently deliver up to 25" Hg+ of vacuum enabling the capture and transfer of most materials.

The SX E-Vac In Line Vacuum Pump operates at under 74dba within 1 metre (3.3ft) and generates and maintains high inline convey velocities. The unit can be installed with various nozzles ranging from 100cfm for viscous liquid transfer up to 280cfm at 85psi for true solids recovery.

The E-Vac must be installed on a 30 degree angle or higher but becomes a virtual straight through system ideal for tank cleaning, ship hull installation or hard access sumps with variable contents.

APPLICATIONS

- Conveyor boot end trouble spots
- Sump cleaning
- Confined space installations
- Tank and pit cleaning
- Hazardous waste recovery
- Drilling mud transfer
- Open sump installations
- FPSO tank cleaning

FEATURES

- 100% air powered operation
- Intrinsically safe
- No internal workings
- High vacuum and high airflow
- Fully automatic operation
- Can be fitted to any piping configuration
- Robust construction
- Ideal for use in confined spaces

TECHNICAL DATA

- Height 60 cm (24")
- Width 50 cm (50")
- Length 180 cm (71")
- Weight 145 kg (319lb)
- Air consumption 100-280cfm @ 85psi+
- Up to 25" Hg+ (85kPa) vacuum
- Suction inlet and Discharge outlet 50 mm (2") 75 mm (3") 100 mm (4")
- Discharge outlet 100 mm (4")
- Handles solids to 50 mm (2")
- Available in Class 3 carbon or 316 stainless steel

SX1000-V

HIGH VOLUME SOLIDS PUMP



SX1000-V HIGH VOLUME SOLIDS PUMP

The SX1000-V High Volume Solids Pump is a high velocity, heavy duty solids pump, capable of capturing high density slurries via a strong 25" Hg vacuum combined with high velocity airflows.

The SX1000-V can handle solids to 80% of the employed hose diameter and will transfer up to 50 m³/hr [220USGPM] depending on the materials and distances involved.

The SX1000-V High Volume Solids Pump has no moving parts in contact with the material being pumped and can pass rags, bolts and many other items that would render a standard impeller pump, inoperable.

FEATURES

- 100% compressed air operation
- Intrinsically safe
- Fully portable
- No internal moving components
- Manual or fully automatic operation
- High vacuum and very high airflow
- Delivers over 1000 metres (3280ft)
- High solids content (80%+) transfer

APPLICATIONS

- Spillage recovery and transfer
- Large dam desilting
- Sump cleaning and desilting
- Tank bottoms and sludge extraction
- Palm oil pond desludging
- OBM transfer and pit cleaning
- Bentonite, sand, and cement powders transfer

TECHNICAL DATA

- Height 215 cm [84"]
- Width 180 cm [71"]
- Length 200 cm [79"]
- Weight 880 kg [1940lb]
- Air consumption 600-900cfm @ 85psi+
- 25" Hg+ (85kPa) vacuum
- Suction inlet 100 mm (4") or 150 mm (6") Camlock
- Discharge outlet 100 mm (4") or 150 mm (6") via NPT, BSP or Victaulic Coupling
- Handles solids to 75 mm (3")

SX1300-LRU

LIQUID RECOVERY UNIT



SX1300-LRU LIQUID RECOVERY UNIT

The SX1300-LRU Liquid Recovery Unit is a 100% compressed air powered centralised multipoint vacuum unit which offers the operator a combination of high velocity vacuum points.

The SX1300-LRU was designed to operate across a range of air supplies and can accommodate a combination of two 50 mm (2") and one 75 mm (3") vacuum lines which can be up to 50 metres (164ft) in length.

The SX1300-LRU Liquid Recovery Unit has no moving parts in contact with the material being pumped and can handle materials that would significantly reduce the performance of, or damage a standard vacuum unit.

FEATURES

- 100% compressed air operation
- Intrinsically safe
- Unit can be fixed or mobile
- 1300 litre holding tank
- No internal moving components
- Manual or fully automatic operation
- High vacuum and very high airflow
- Low pressure discharge
- Multiple vacuum inlets
- No filtration or screening basket required

APPLICATIONS

- Rig floor clean-up
- Shaker house clean-up
- A centralised vacuum unit
- Pit cleaning and mud transfer
- Spillage recovery

TECHNICAL DATA

- Height 160 cm (53.5")
- Width 180 cm (60")
- Length 210 cm (70")
- Weight 880 kg (1936lb)
- Air consumption 150-420cfm @ 85psi+
- 25" Hg+ (85kPa) vacuum
- Suction inlet 2 x 50 mm (2") and 1 x 75 mm (3") Camlock
- Discharge outlet 100 mm (4")

SMS

SLURRY DEWATERING SYSTEM



SMS SLURRY DEWATERING SYSTEM

The SX Slurry Management System is a fully automatic slurry dewatering system that can take both solids laden slurry or fines laden water from several sources simultaneously, dewater and deliver a dry product back into the production system. The SMS can dewater around 30,000 litres of slurry per hour returning up to 40m³ [52 yd³]+ of material back to belt, skip or even bag per 24 hours.

The SMS unit's are designed as stand alone operations capable of transforming what was previously a troublesome but unavoidable side effect of mining; slurry, into a saleable product exiting the pit. The benefits of employing an SMS increase greatly due to the amount of sediment removed from pump lines. This in turn significantly reduces wear and tear on a mine's normal centrifugal pumps.

Compact, robust and simple in design, manufactured in 316 stainless steel for durability, each unit has the capacity in throughput to operate 24/7 and be totally cost negative.

FEATURES

- Intrinsically safe
- Fully automatic, silent operation
- Available in three sizes: 197 (10m³/hr), 280 (20m³/hr) and 366 (30m³/hr)
- Low power consumption (1.1kW/1.5hp motor)
- Skid fork mounted
- Robust, compact and simple operation
- 316 Stainless steel construction
- Removes liquid and discharges solids with moisture content of approximately 25%.

APPLICATIONS

- Longwall slurry control
- Tailings and ash pond cleaning
- Mining fines recovery
- Mine slurry dewatering
- Increasing tailings dam holding capacity
- Removing slurry hazards from work areas
- Effluent and filter media dewatering

TECHNICAL DATA (SMS197)

- Height 1650mm [65"]
- Width 1250mm [50"]
- Length 3500mm [138"]
- Weight 625kg [1375lb]
- Inlet
- Discharge outlet:
- Handles solids to

TECHNICAL DATA (SMS280)

- Height 2500mm [98"]
- Width 1600mm [63"]
- Length 5400mm [213"]
- Weight 1250kg [2750lb]
- Inlet 2 x 50mm [2"], 1 x 75mm [3"] and 1 x 100mm [4"]
- Discharge outlet: 100-150mm [4"-6"]
- Handles solids to 80mm [3"]+

TECHNICAL DATA (SMS366)

- Height 3100mm [122"]
- Width 2000mm [79"]
- Length 6000mm [236"]
- Weight 2050kg [4510lb]
- Inlet
- Discharge outlet:
- Handles solids to

ACCESSORIES

SUCTION AND DISCHARGE CONNECTIONS

SX660 SKIM-VAC



The SX660 SkimVac is a liquid remediation unit that allows a measured amount of the surface material to be skimmed and recovered or removed via vacuum.

Manufactured in 316 stainless steel the SkimVac is a surface stabilised mobile unit that attaches directly to an SX60 or similar pump and will remove any floating material from a liquid surface.

With only one moving part, the SX660 SkimVac is ideal for the recovery or capture of oil spills or nearly all types of floating debris in applications such as algae removal, marina maintenance, surface remediation and power station water source maintenance. SX660 units are 100% vacuum operated and do not require any other power source.

PICKUP NOZZLES



Pentair Southern Cross manufactures a complete range of pick-up nozzles that can both assist and enhance the collection performance of SX Solids Pumps.

Lightweight and manufactured in 304 stainless steel as standard, nozzles are designed to be simple to connect and easy to use.

SNORE BOXES AND STRAINERS



Pentair Southern Cross manufacture a range of snore boxes and strainers in a variety of sizes to prevent blockages when pumping with a submerged suction line.

The snore box is a simple means of capturing as much material as possible, whilst excluding oversize particles and ensuring the pumps keep transferring at maximum capacity

Snore boxes are available for 50mm, 75mm and 100mm (2", 3" & 4") suction lines and feature a simple Camlock connection.

FLOOR ATTACHMENTS



Southern Cross floor attachments are designed to maintain the high vacuum and excellent airflows supplied via SX Solids Pumps when cleaning liquids from smooth surfaces.

Manufactured in 304 stainless steel and robust in construction, the Hoover Heads maximise the suction area in contact with surface, ensuring the rapid capture of liquids on the deck or rig floor.

These units are ideal for the rapid recovery of spills of oil based mud or similar material.

Units are available to suit 50mm, 75mm and 100mm (2", 3" & 4" suction lines.

"BOOSTA" AND AIR ASSIST NOZZLES



Southern Cross "Boosta" and Air Assist Nozzles were designed primarily to boost both pick up and in line convey velocities. The air enters the nozzle via either an annular eductor or Air Assist jet which whilst creating its own vacuum, accelerates the product and aerates the material as it passes down the tube into the convey line.

Variations are available or individual Eductor Nozzles can be developed for both task and material. All nozzles are manufactured in 304 stainless steel unless otherwise specified.

Both versions are available with either valve, remote or trigger actuation.

The "Boosta" allows for the accelerated recovery of extremely viscous products along with dryer material such as powders, fibres, grains and sand etc.

Southern Cross also manufacture both the "Boosta" and Air Assist attachments for direct coupling in-line. This can significantly increase both vertical lift and discharge capabilities of all Southern Cross SX Solids Pumps.



DISCHARGE DEAD HEADS



Pentair Southern Cross manufacture a complete range of gravity drop boxes "Dead Heads" in both tubular and rectangular arrangement. Designed to be either slung or hard piped and solid mounted, Southern Cross "Dead Heads" are a versatile and convenient way to deliver your recovered product exactly where you want it. With product delivered at pace, the "Dead Head" is designed to absorb the shock and then let gravity take its course.

Manufactured in either painted mild steel, galvanised steel or 304/316 stainless steel if required, the unit's come with either Camlok, threaded, shouldered or grooved victaulic fittings. Installed correctly, the exit area is designed to deliver 100% of the product to an area, skip or moving conveyor belt no wider than 800mm (31.5").

CUTTINGS CAROUSEL

The Southern Cross SX800 Cuttings Carousel is designed to enable the controlled discharge of cuttings delivered from SX Solids Pumps to a skip or confined location.

The Cuttings Carousel can rotate through 360 degrees which in turn allows for the filling of multiple skips depending on the available space.

These units are adjustable for height, length, angle and box size to suit the requirements of operators.

SUCTION AND DISCHARGE HOSES

Pentair Southern Cross can supply a range of suction, discharge and air supply hoses and associated fittings to operate the full range of SX Solids Pumps in a wide range of applications.

Hoses and fittings can be supplied individually or fully assembled with pump units.

A wide range of suction and discharge attachments and accessories are available to work with the SX Solids Pumps range. Pentair Southern Cross can supply fully integrated turn key solutions which are simple to set up and easy to use with a single operator.



PENTAIR SOUTHERN CROSS

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